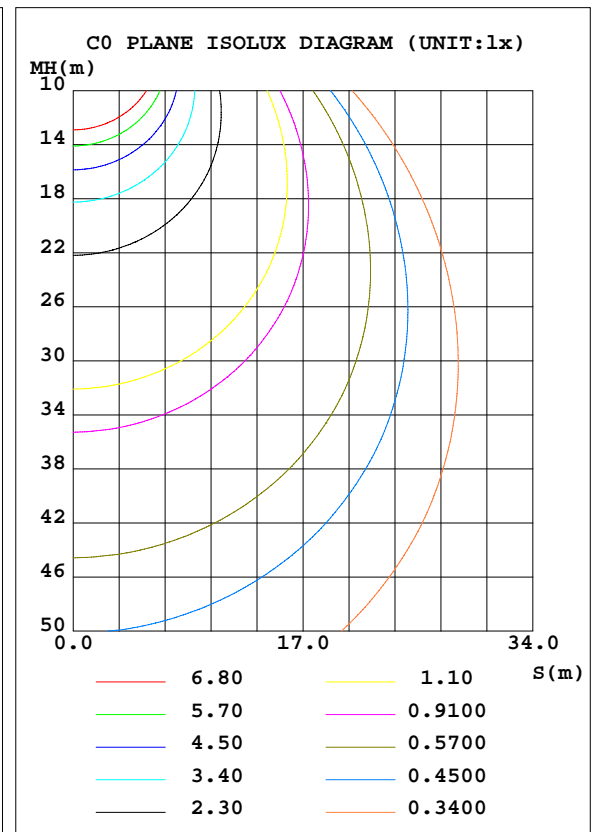
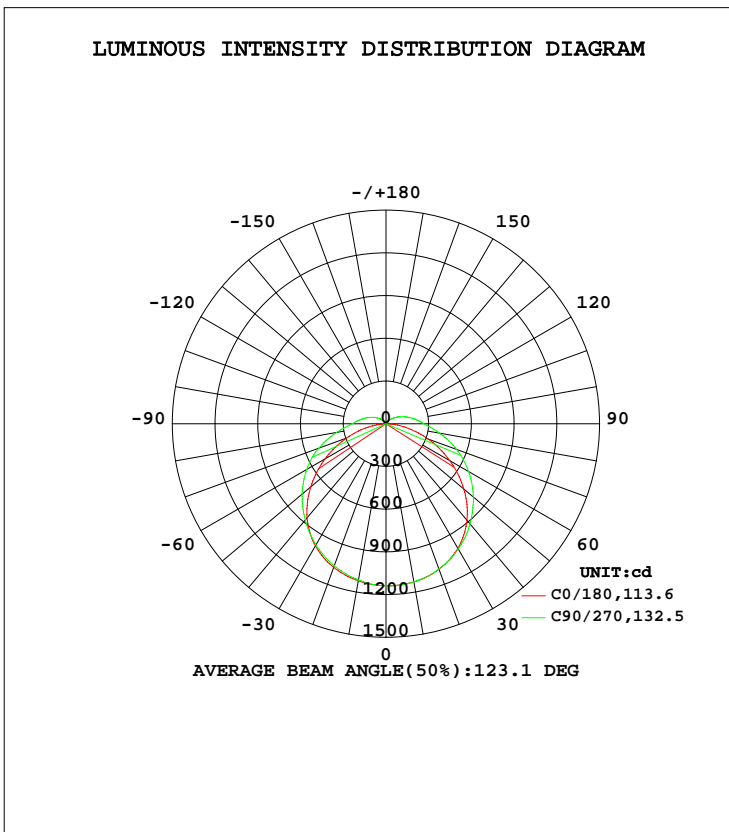


Tim Zhou

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.59 lm/W			
MODEL	VUM4(F7236T-LS-B)	I _{max} (cd)	1141	S/MH(C0/180)	1.31
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)		TOTAL FLUX(lm)	4172.7	η UP, DN(C0-180)	4.3,44.9
NOMINAL FLUX(lm)	4172.66	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.6,46.2
LAMPS INSIDE	1	η up(%)	8.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	91.1	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:SAM
 Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56%
 Test Distance:30.000m [K=1.0000]
 Remarks: 6500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

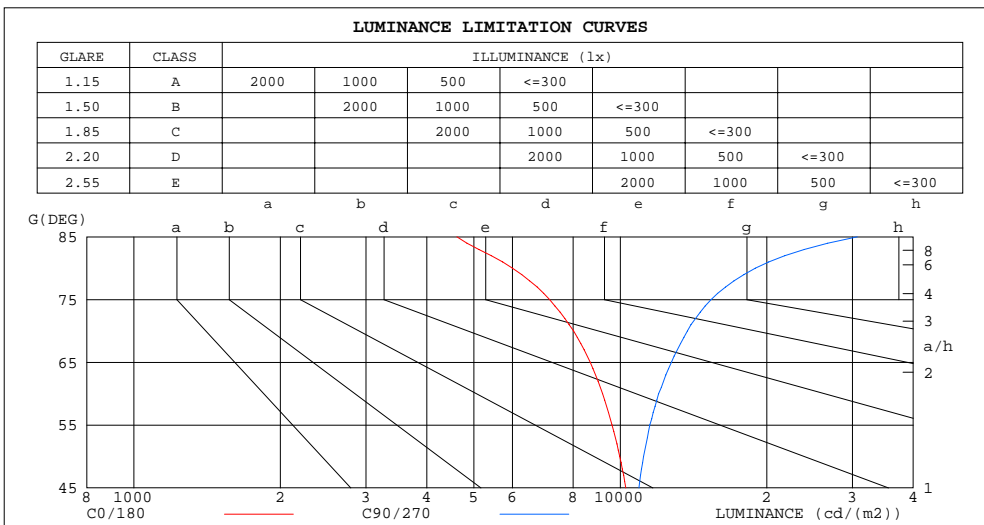
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	1120	1110	1115	1115	1127	1127	1128	1119	0- 10	107.8	107.8	2.58,2.58
20	1074	1044	1063	1059	1087	1077	1087	1063	10- 20	310.1	417.9	10,10
30	990.8	949.7	983.1	972.2	1010	992.6	1015	975.1	20- 30	474.6	892.6	21.4,21.4
40	861.8	831.8	882.6	858.4	885.3	882.7	919.1	863.0	30- 40	582.5	1475	35.3,35.3
50	689.4	698.3	768.6	730.2	713.5	750.4	801.2	732.7	40- 50	622.5	2098	50.3,50.3
60	494.4	558.3	641.9	590.1	517.0	606.0	670.6	591.0	50- 60	594.4	2692	64.5,64.5
70	294.9	414.0	503.3	443.3	315.8	452.0	527.3	441.1	60- 70	505.6	3198	76.6,76.6
80	112.1	273.3	352.3	298.4	128.5	301.4	381.4	293.4	70- 80	371.7	3569	85.5,85.5
90	13.59	169.2	238.1	186.8	15.88	187.7	268.0	188.1	80- 90	231.3	3801	91.1,91.1
100	10.84	118.9	178.2	134.0	11.05	130.5	200.8	133.7	90-100	150.9	3952	94.7,94.7
110	7.384	79.54	129.5	90.58	7.675	85.86	143.4	88.34	100-110	101.8	4053	97.1,97.1
120	5.998	48.49	88.80	56.73	6.351	51.10	96.35	52.07	110-120	62.69	4116	98.6,98.6
130	4.630	24.69	55.54	30.13	4.212	24.74	58.86	24.79	120-130	33.95	4150	99.5,99.5
140	3.268	6.929	27.99	9.700	4.076	5.401	28.00	4.988	130-140	15.30	4165	99.8,99.8
150	2.544	3.166	7.211	3.473	3.813	2.958	3.702	2.870	140-150	4.573	4170	99.9,99.9
160	2.514	3.190	3.059	3.112	4.001	3.206	2.795	3.406	150-160	1.515	4171	100,100
170	3.157	3.351	3.059	3.373	4.163	3.821	3.256	3.558	160-170	0.9726	4172	100,100
180	3.683	3.451	3.192	3.605	4.209	3.944	3.325	3.605	170-180	0.3506	4173	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:SAM
Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56%
Test Distance:30.000m [K=1.0000]
Remarks: 6500K

LUMINANCE LIMITATION CURVES

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4613	30699
80	6000	18945
75	7157	15369
70	8015	13741
65	8674	12737
60	9191	11987
55	9614	11501
50	9969	11165
45	10259	10919

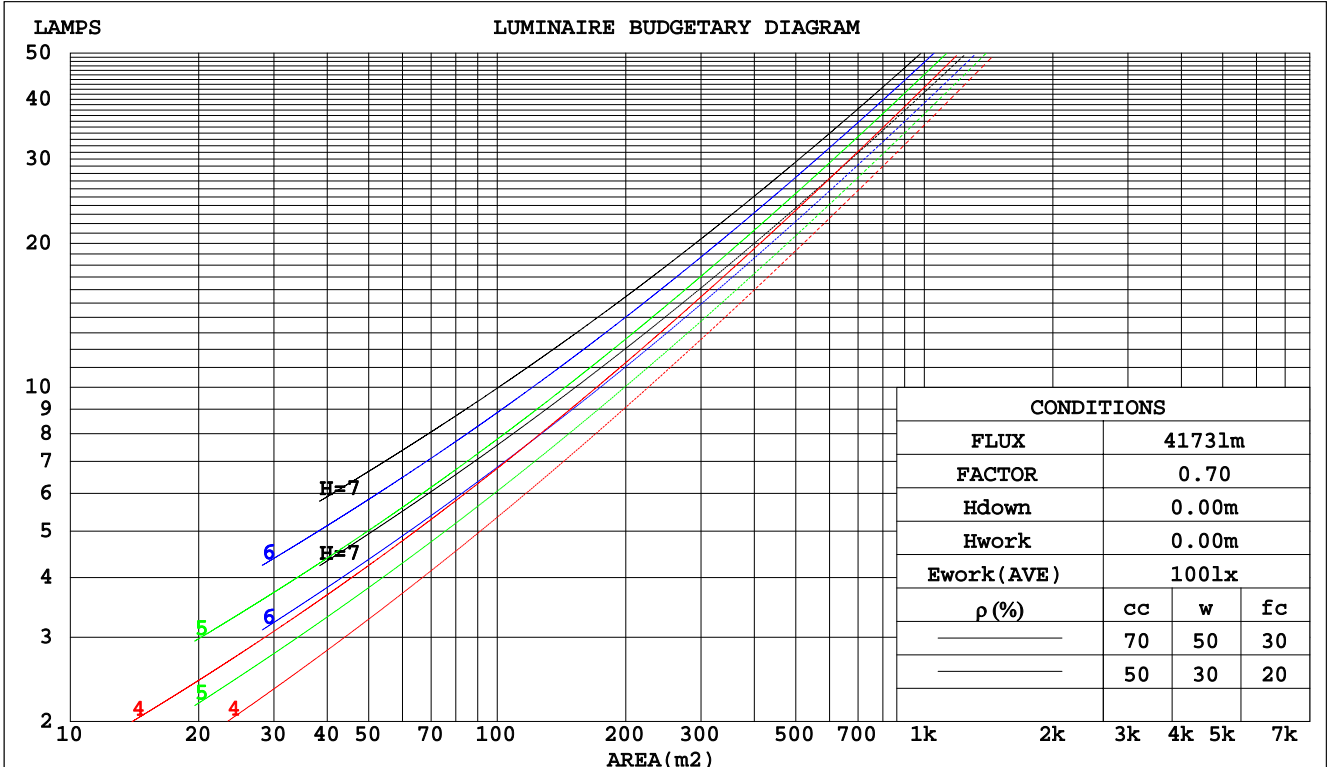
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: SAM
 Test Date: 2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56%
 Test Distance: 30.000m [K=1.0000]
 Remarks: 6500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.84	.81	.79	.79	.77	.75	.72
2.0	.85	.78	.71	.83	.76	.70	.77	.72	.67	.73	.68	.64	.68	.65	.61	.58
3.0	.74	.65	.58	.72	.64	.57	.68	.61	.55	.64	.58	.53	.60	.55	.51	.48
4.0	.65	.56	.49	.63	.55	.48	.60	.52	.46	.56	.50	.45	.53	.48	.43	.41
5.0	.58	.49	.42	.56	.48	.41	.53	.46	.40	.50	.44	.39	.48	.42	.37	.35
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.37	.31	.44	.36	.31	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9.0	.39	.31	.25	.38	.30	.25	.37	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: SAM
 Test Date: 2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56%
 Test Distance: 30.000m [K=1.0000]
 Remarks: 6500K

WEC AND CCEC

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.361	.205	.065	.351	.200	.064	.332	.191	.061	.315	.182	.058	.299	.174	.056	
2.0	.321	.176	.054	.312	.172	.053	.295	.164	.051	.280	.157	.049	.266	.150	.047	
3.0	.289	.154	.046	.281	.150	.045	.266	.144	.044	.252	.138	.042	.239	.133	.041	
4.0	.262	.136	.040	.255	.133	.039	.242	.128	.038	.229	.123	.037	.218	.118	.036	
5.0	.240	.122	.035	.233	.120	.035	.221	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.220	.110	.032	.215	.108	.031	.204	.104	.030	.193	.101	.030	.184	.097	.029	
7.0	.204	.101	.029	.199	.099	.028	.189	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.189	.093	.026	.185	.091	.026	.176	.088	.025	.167	.085	.024	.159	.082	.024	
9.0	.177	.086	.024	.173	.084	.024	.164	.081	.023	.157	.078	.022	.149	.076	.022	
10.0	.166	.080	.022	.162	.078	.022	.154	.076	.021	.147	.073	.021	.140	.071	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.258	.258	.258	.221	.221	.221	.151	.151	.151	.087	.087	.087	.028	.028	.028	
1.0	.252	.224	.199	.216	.192	.171	.148	.132	.118	.085	.077	.069	.027	.025	.022	
2.0	.245	.201	.163	.210	.173	.141	.144	.120	.099	.083	.070	.058	.027	.022	.019	
3.0	.237	.184	.141	.204	.159	.122	.140	.110	.086	.081	.064	.051	.026	.021	.017	
4.0	.230	.171	.126	.197	.148	.109	.136	.103	.077	.078	.060	.046	.025	.020	.015	
5.0	.222	.161	.116	.191	.139	.101	.131	.097	.071	.076	.057	.042	.025	.019	.014	
6.0	.215	.153	.108	.184	.132	.094	.127	.093	.067	.074	.054	.040	.024	.018	.013	
7.0	.208	.146	.103	.179	.127	.090	.123	.089	.063	.072	.052	.038	.023	.017	.012	
8.0	.201	.140	.099	.173	.122	.086	.120	.085	.061	.070	.050	.036	.023	.017	.012	
9.0	.195	.135	.095	.168	.118	.083	.116	.083	.059	.068	.049	.035	.022	.016	.012	
10.0	.189	.131	.093	.163	.114	.081	.113	.080	.058	.066	.047	.034	.021	.016	.011	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:SAM
 Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56%
 Test Distance:30.000m [K=1.0000]
 Remarks: 6500K

UGR(Unified Glare Rating) Table

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm										
NAME: LED water proof light					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:ED190909037L		
MFR.: Vynco Industries (N.Z) Limited					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.9	21.4	20.3	21.7	22.1	20.9	22.4	21.3	22.7	23.1
3H	21.4	22.8	21.9	23.2	23.6	23.1	24.5	23.6	24.9	25.3
4H	22.0	23.3	22.5	23.7	24.2	24.3	25.6	24.7	26.0	26.4
6H	22.4	23.6	22.9	24.0	24.5	25.5	26.7	25.9	27.1	27.6
8H	22.5	23.7	23.0	24.1	24.6	26.1	27.3	26.5	27.7	28.2
12H	22.5	23.7	23.0	24.1	24.6	26.8	27.9	27.3	28.4	28.9
4H 2H	20.7	22.0	21.2	22.4	22.9	21.5	22.7	21.9	23.2	23.6
3H	22.5	23.6	23.0	24.1	24.6	23.9	25.1	24.4	25.5	26.0
4H	23.3	24.3	23.8	24.8	25.3	25.3	26.3	25.8	26.8	27.3
6H	23.8	24.8	24.4	25.3	25.8	26.7	27.6	27.2	28.1	28.7
8H	24.0	24.9	24.6	25.4	26.0	27.4	28.3	28.0	28.8	29.4
12H	24.1	24.9	24.7	25.5	26.1	28.2	29.0	28.8	29.6	30.2
8H 4H	23.9	24.8	24.5	25.3	25.9	25.6	26.5	26.1	27.0	27.6
6H	24.8	25.5	25.4	26.1	26.7	27.3	28.0	27.8	28.6	29.2
8H	25.1	25.8	25.7	26.4	27.0	28.2	28.9	28.8	29.4	30.1
12H	25.4	26.0	26.0	26.6	27.2	29.3	29.9	29.9	30.4	31.1
12H 4H	24.1	24.9	24.6	25.4	26.0	25.6	26.4	26.2	27.0	27.6
6H	25.1	25.8	25.7	26.3	27.0	27.4	28.0	28.0	28.6	29.2
8H	25.6	26.2	26.2	26.8	27.4	28.4	29.0	29.0	29.6	30.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 4173 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.0$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:SAM
Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56%
Test Distance:30.000m [K=1.0000]
Remarks: 6500K

UTILIZATION FACTORS TABLE

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

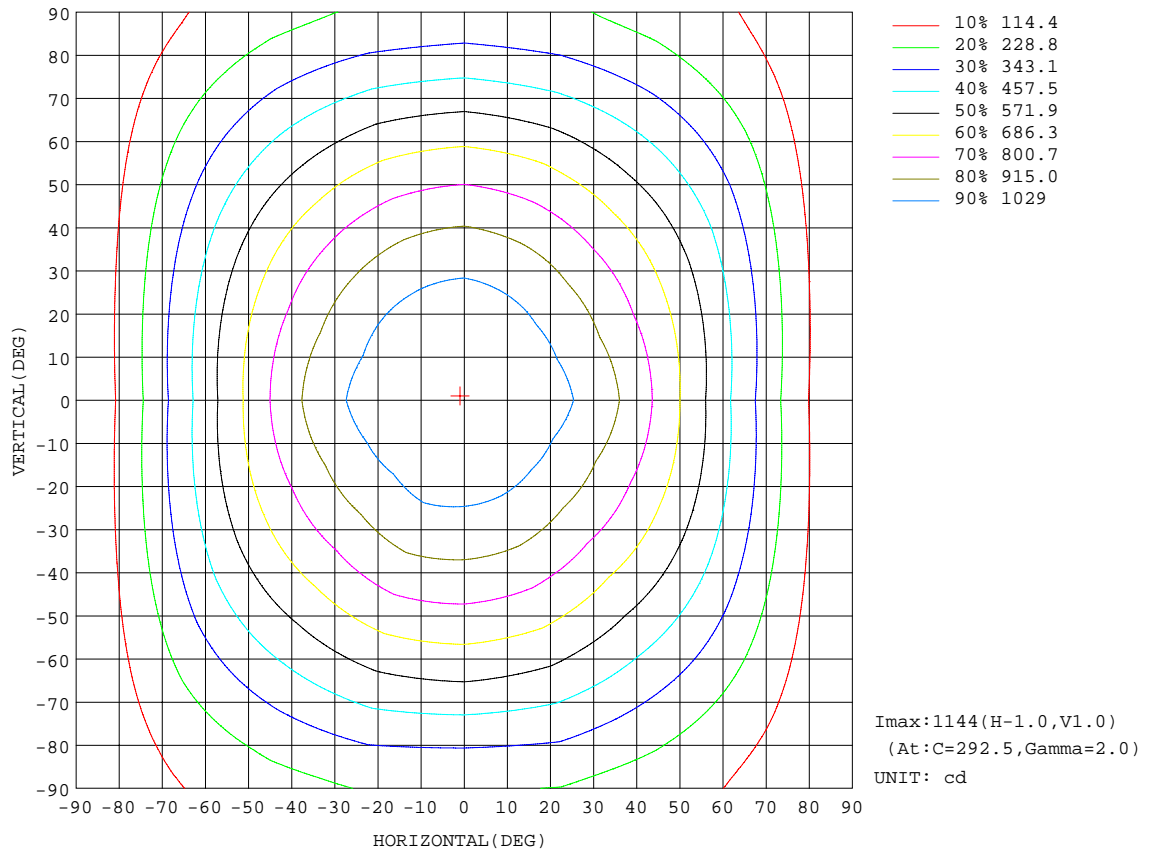
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	39	32	49	39	32	25
0.80	61	49	41	60	48	41	58	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	64	56	75	64	56	71	62	55	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	89	78	71	86	77	70	82	74	68	58
2.50	93	84	76	90	82	75	85	78	72	62
3.00	96	88	81	94	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	71
5.00	104	98	92	100	95	90	94	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:SAM
 Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56%
 Test Distance:30.000m [K=1.0000]
 Remarks: 6500K

ISOCANDELA DIAGRAM

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

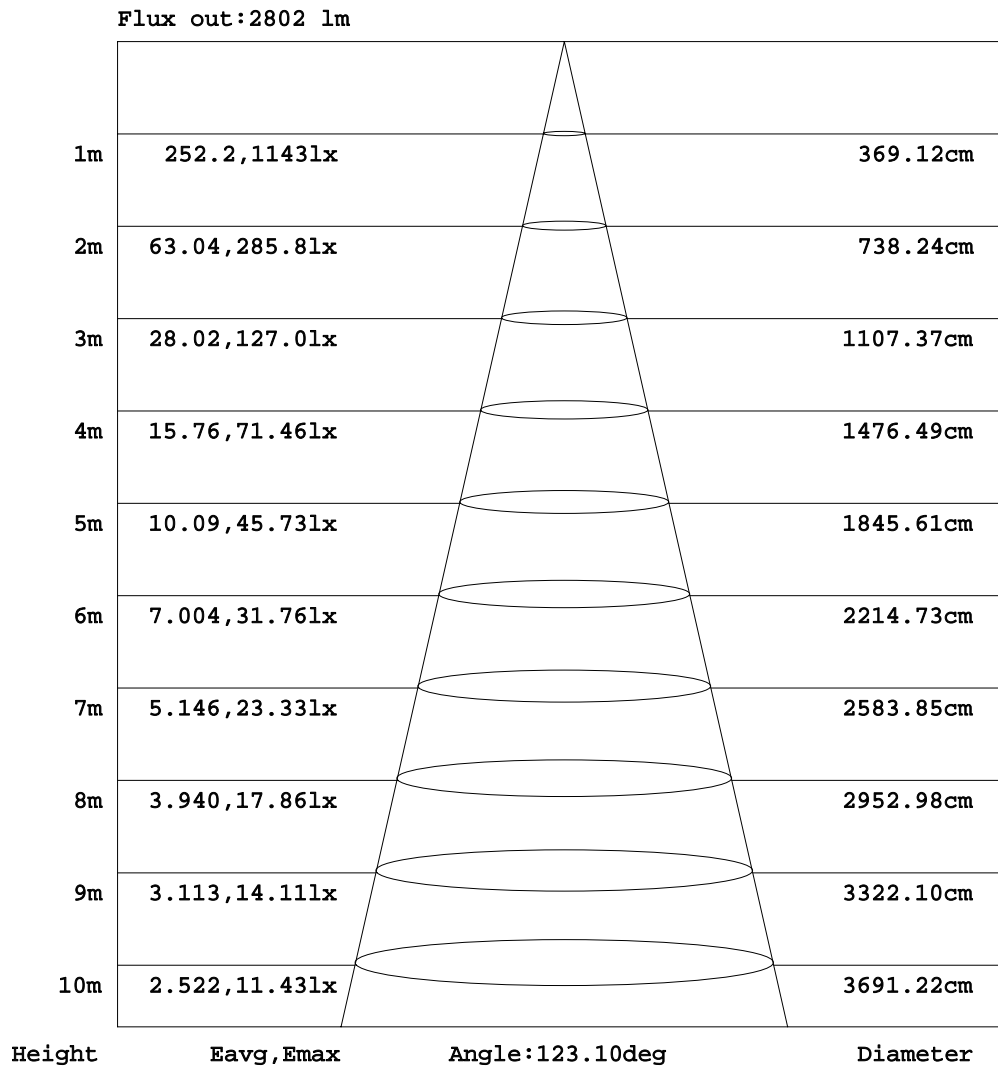


C Range: 0 - 360DEG
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 Test Speed: HIGH
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γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56%
 Test Distance: 30.000m [K=1.0000]
 Remarks: 6500K

AAI Figure

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:



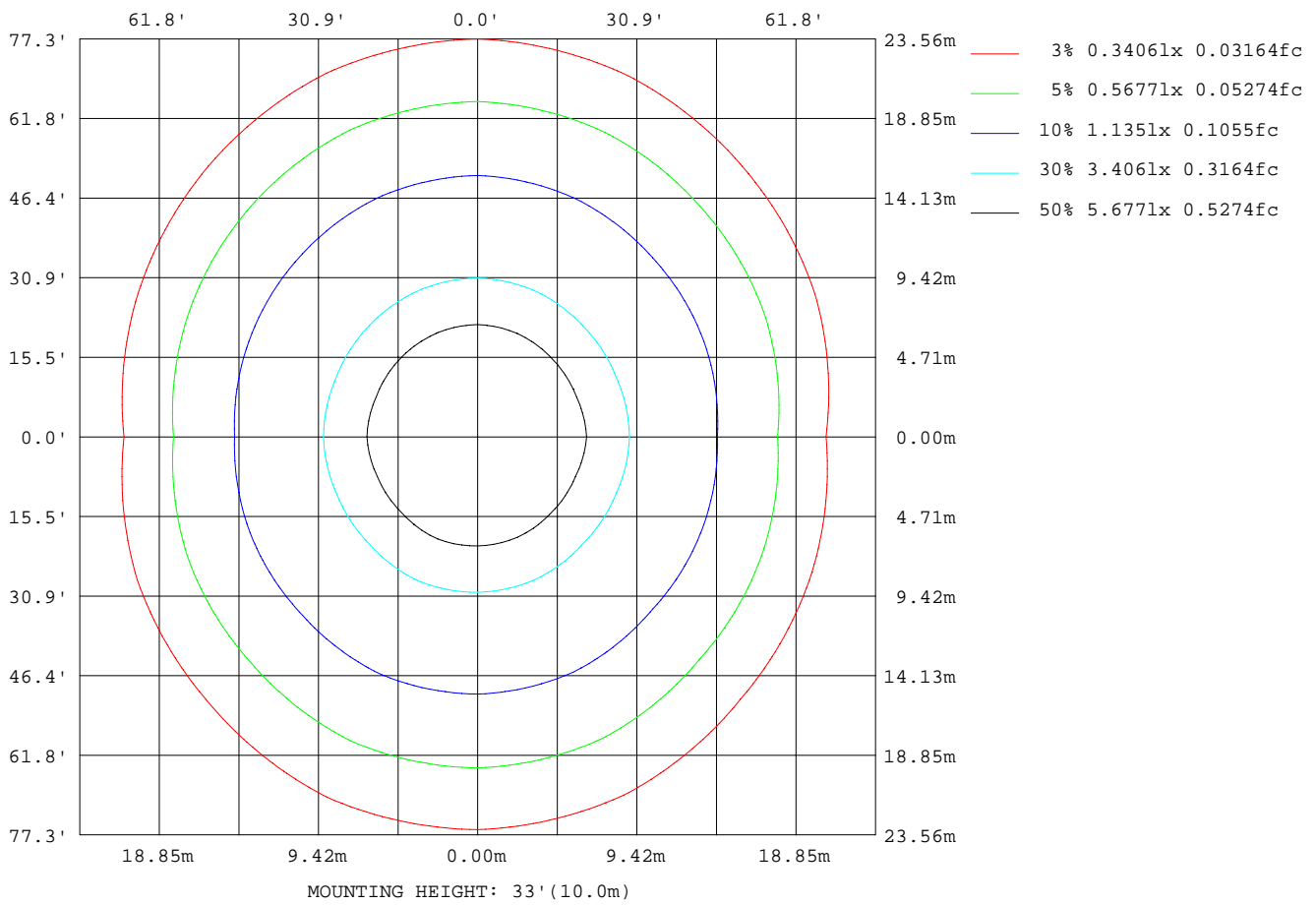
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:SAM
 Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56%
 Test Distance:30.000m [K=1.0000]
 Remarks: 6500K

ISOLUX DIAGRAM

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:SAM
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56%
 Test Distance:30.000m [K=1.0000]
 Remarks: 6500K

LED Avg.L Report

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

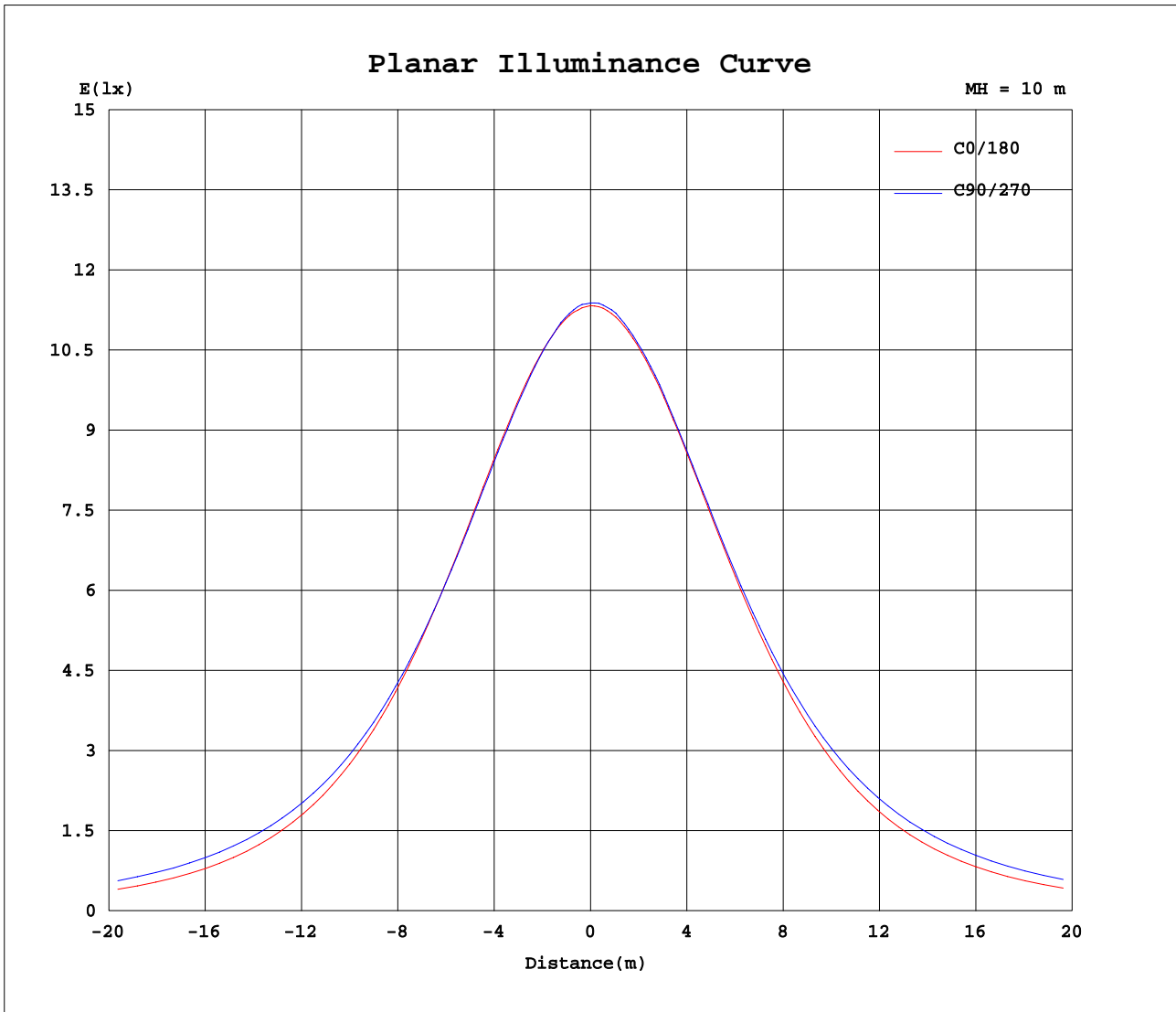
AvgL	cd/m2
L_0~180(65)av	8952
L_0~180(75)av	7538
L_0~180(85)av	5246
L_90~270(65)av	12985
L_90~270(75)av	15869
L_90~270(85)av	32268
L_45(65)av	11311
L_45(75)av	13095
L_45(85)av	24444

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:SAM
Test Date:2019-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56%
Test Distance:30.000m [K=1.0000]
Remarks: 6500K

Planar Illuminance Curve



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 Test Distance: 30.000m [K=1.0000]
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.13V I:0.1781A P:40.279W PF:0.9825 Freq:50.00Hz Lamp Flux:4172.66x1 lm		
NAME: LED water proof light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:ED190909037L
MFR.: Vynco Industries (N.Z) Limited	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138	1138			
5	1133	1132	1129	1129	1131	1133	1133	1136	1136	1139	1137	1137	1138	1136	1133	1133			
10	1120	1115	1110	1111	1115	1120	1115	1123	1127	1126	1127	1126	1128	1123	1119	1119			
15	1101	1086	1082	1087	1090	1098	1092	1099	1112	1105	1106	1110	1113	1102	1095	1092			
20	1074	1049	1044	1055	1063	1069	1059	1066	1087	1074	1077	1082	1087	1075	1063	1057			
25	1037	1004	1001	1017	1026	1033	1019	1025	1053	1034	1039	1048	1055	1041	1023	1015			
30	991	953	950	972	983	990	972	975	1010	988	993	1009	1015	998	975	963			
35	932	895	893	921	936	941	918	918	954	932	941	958	972	950	922	907			
40	862	832	832	866	883	887	858	856	885	870	883	906	919	896	863	844			
45	780	763	766	807	827	829	796	787	805	801	819	848	861	837	800	777			
50	689	689	698	747	769	768	730	716	713	727	750	786	801	777	733	705			
55	593	611	628	684	706	703	660	640	617	648	678	721	737	710	663	631			
60	494	530	558	618	642	636	590	560	517	564	606	653	671	640	591	550			
65	394	445	486	550	577	567	517	479	416	477	529	582	599	570	516	466			
70	295	360	414	480	503	497	443	394	316	388	452	507	527	498	441	380			
75	199	276	341	411	426	425	369	309	219	299	375	434	454	425	366	293			
80	112	197	273	342	352	352	298	226	128	217	301	360	381	354	293	210			
85	43.3	130	213	277	287	287	234	154	54.7	146	235	294	316	291	230	141			
90	13.6	87.1	169	226	238	236	187	105	15.9	99.6	188	246	268	247	188	99.0			
95	12.0	65.5	142	193	206	204	159	80.4	12.6	74.6	157	212	233	215	160	74.8			
100	10.8	48.6	119	165	178	175	134	61.7	11.1	55.8	130	181	201	185	134	56.1			
105	9.69	35.2	98.4	139	153	148	112	46.3	9.89	41.2	107	153	171	157	110	41.0			
110	7.38	24.2	79.5	117	129	125	90.6	33.7	7.68	29.6	85.9	127	143	131	88.3	28.9			
115	6.53	14.9	63.0	97.7	108	104	72.6	23.5	6.52	20.0	67.2	105	118	108	69.0	18.6			
120	6.00	7.73	48.5	79.8	88.8	84.1	56.7	14.6	6.35	11.5	51.1	83.8	96.3	86.1	52.1	10.3			
125	5.16	3.50	36.1	63.5	71.5	66.6	42.7	7.65	5.05	6.20	37.3	65.1	76.4	67.0	37.5	4.75			
130	4.63	3.26	24.7	48.4	55.5	50.5	30.1	4.85	4.21	4.77	24.7	48.6	58.9	50.1	24.8	3.79			
135	3.90	3.11	15.0	35.1	40.9	36.6	19.0	4.37	4.21	4.32	14.2	34.2	43.0	35.2	13.7	3.20			
140	3.27	3.15	6.93	22.6	28.0	23.6	9.70	3.65	4.08	3.77	5.40	21.3	28.0	21.7	4.99	3.22			
145	2.74	3.19	3.33	11.6	16.6	12.2	4.13	3.61	3.94	3.44	2.88	10.2	14.5	10.3	2.63	3.34			
150	2.54	3.24	3.17	4.41	7.21	3.33	3.47	3.58	3.81	3.28	2.96	3.13	3.70	3.21	2.87	3.47			
155	2.49	3.31	3.18	3.83	3.06	3.33	3.05	3.55	3.68	3.29	3.03	2.87	2.26	3.15	3.12	3.59			
160	2.51	3.66	3.19	3.49	3.06	3.33	3.11	3.79	4.00	3.31	3.21	2.87	2.80	3.10	3.41	3.71			
165	2.80	4.10	3.22	3.52	3.06	3.48	3.18	4.38	4.13	3.32	3.60	2.87	3.10	3.05	3.53	3.83			
170	3.16	4.35	3.35	3.58	3.06	3.53	3.37	4.69	4.16	3.39	3.82	2.87	3.26	3.00	3.56	4.49			
175	3.64	4.41	3.43	3.74	3.06	3.58	3.57	4.82	4.20	3.50	4.03	2.87	3.31	2.94	3.59	4.58			
180	3.68	4.43	3.45	3.52	3.19	3.60	3.60	3.79	4.21	3.55	3.94	3.26	3.32	3.46	3.60	4.61			

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