Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P942355

Luminaire Tested: **GALN-SB6B-827-U-T2**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P942355
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB6B-827-U-T2
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29421 lumens
Efficiency:	N/A
Efficacy:	133.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G4
Input Watts (W):	220.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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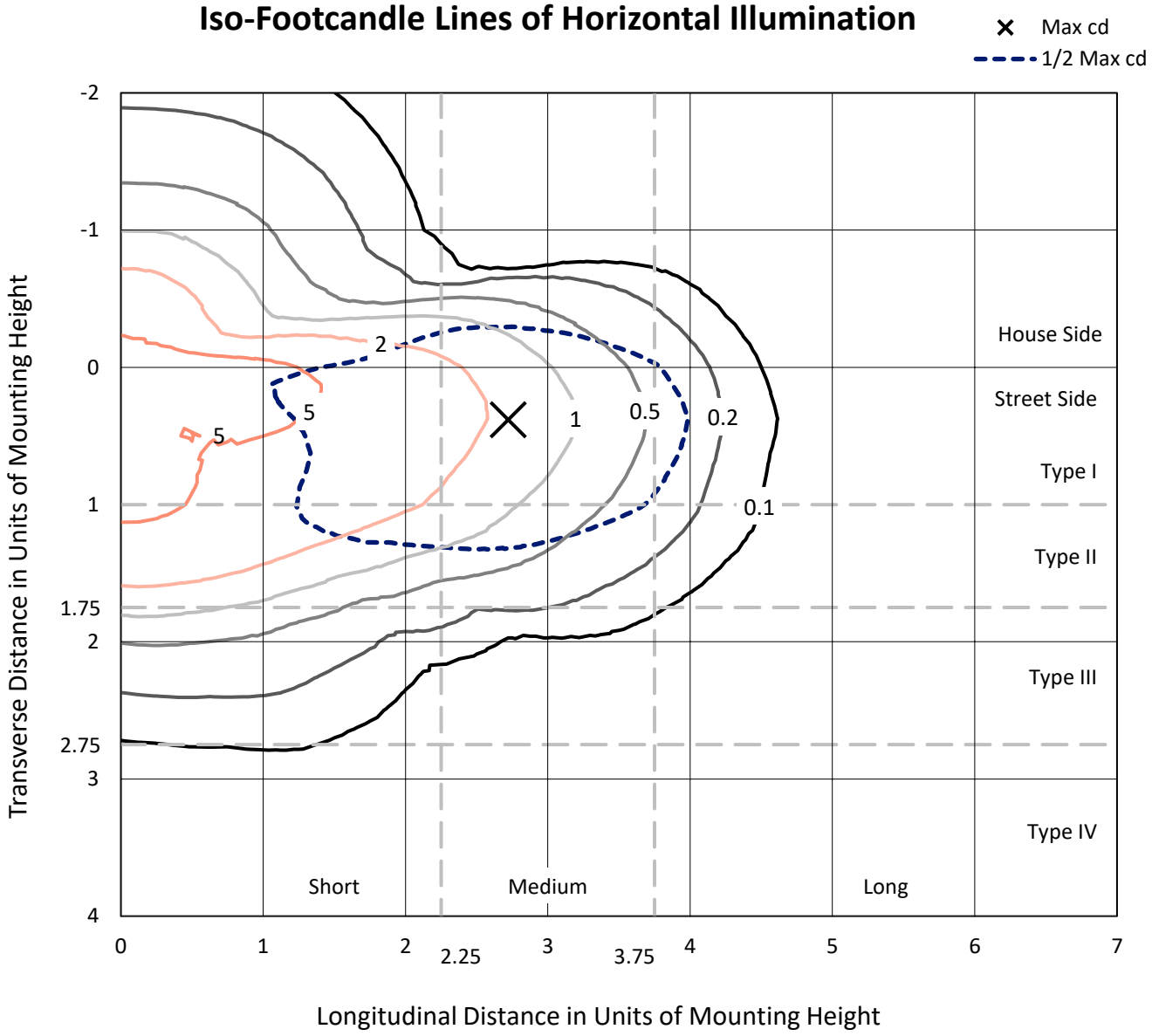
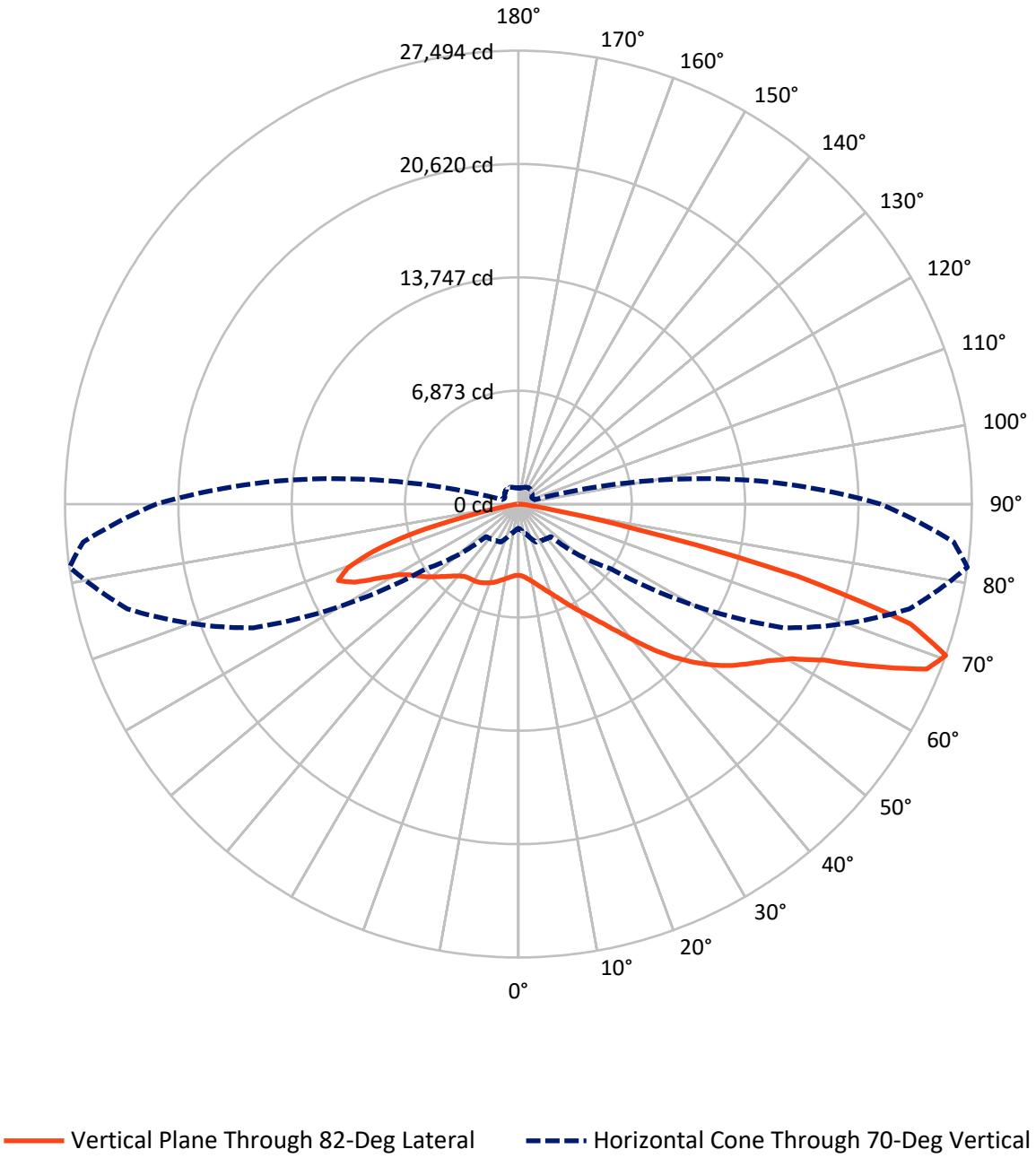
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

REPORT NUMBER: P942355
CATALOG NUMBER: GALN-SB6B-827-U-T2

Luminous Intensity Polar Plot



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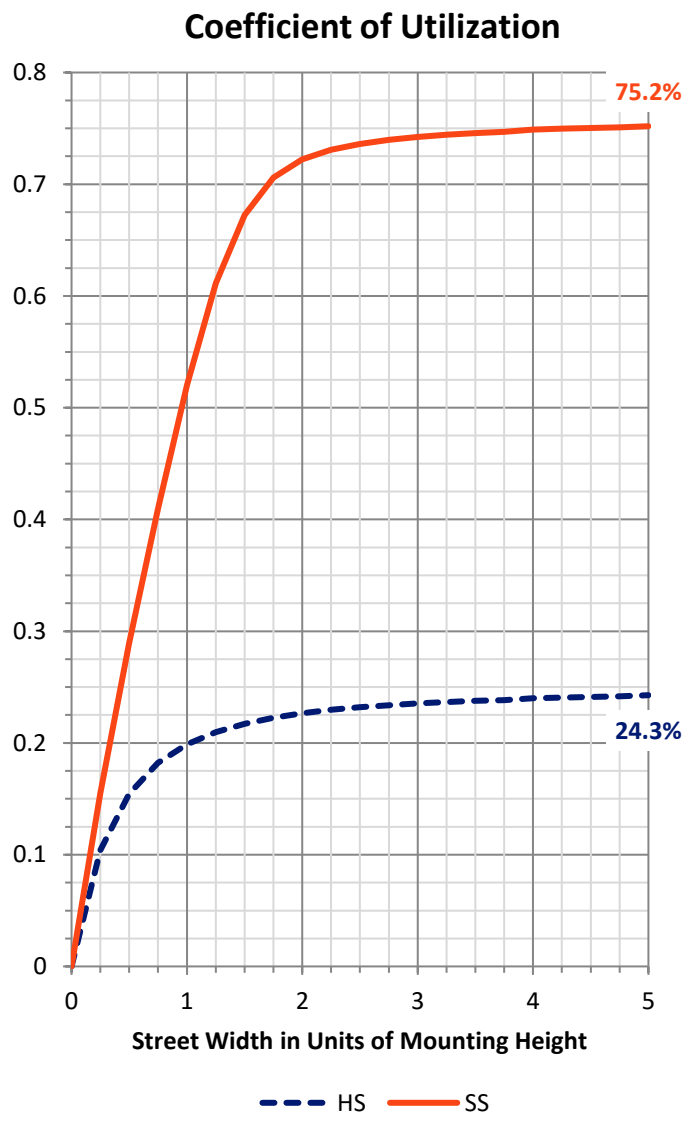
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7253.0	0.0	7253.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22168.0	0.0	22168.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	29421.0	0.0	29421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.4
10°-20°	1170.1	4.0
20°-30°	1957.5	6.7
30°-40°	3058.1	10.4
40°-50°	4870.3	16.6
50°-60°	6777.7	23.0
60°-70°	7089.8	24.1
70°-80°	3705.5	12.6
80°-90°	384.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29421.0	100.0
0°-180°	29421.0	100.0



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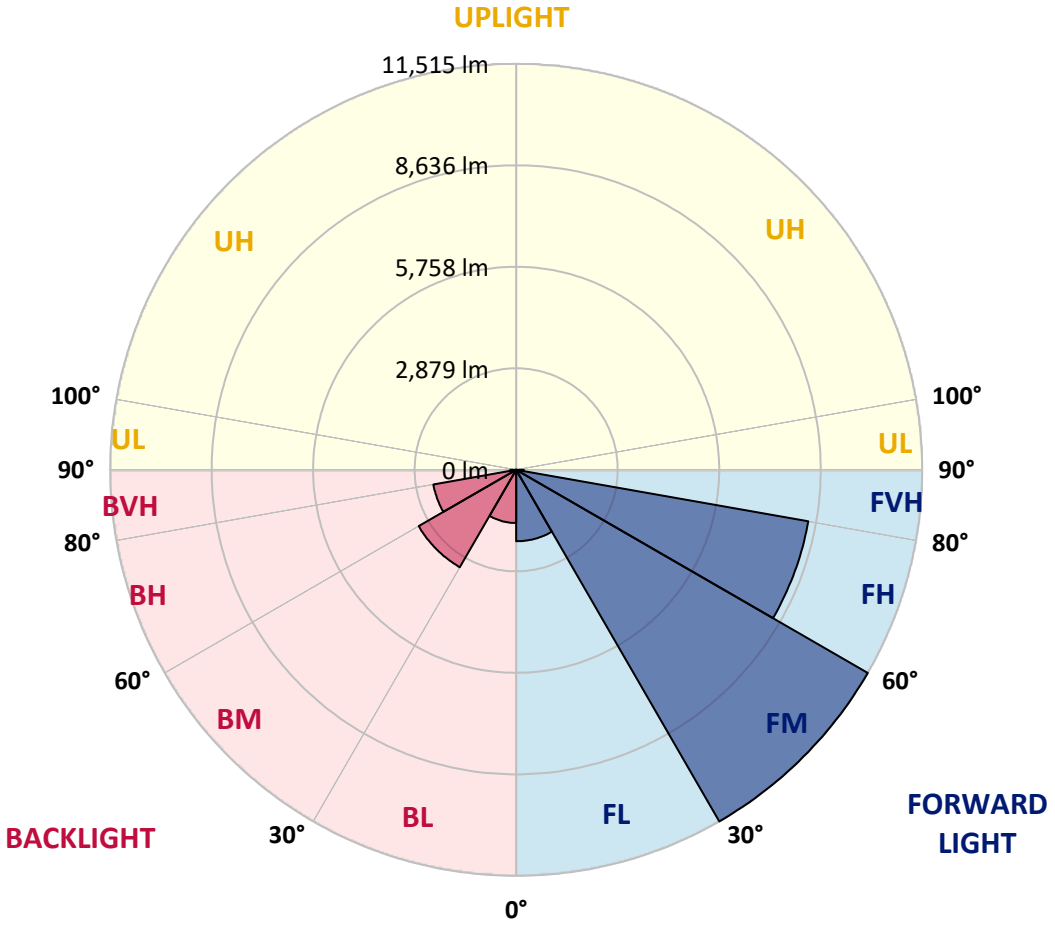
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2026.0	6.9			
FM	(30°-60°)	11515.1	39.1			
FH	(60°-80°)	8411.6	28.6			G4/12000
FVH	(80°-90°)	215.4	0.7			G2/225
BL	(0°-30°)	1508.9	5.1	B3/2500		
BM	(30°-60°)	3191.0	10.8	B3/5000		
BH	(60°-80°)	2383.7	8.1	B3/2500		G3/2500
BVH	(80°-90°)	169.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	*4313.5*
2.5°	4416.5	4441.5	4433.7	4425.9	4425.9	4415.0	4413.4	4397.8	4385.3	*4365.0*
5°	4472.7	4499.3	4496.1	4502.4	4522.7	4527.4	4532.0	4522.7	4497.7	*4472.7*
7.5°	4422.8	4452.4	4461.8	4499.3	4561.7	4617.9	4660.1	4677.2	4653.8	*4617.9*
10°	4254.2	4286.9	4319.7	4408.7	4519.6	4652.3	4764.7	4831.8	4827.1	*4792.8*
12.5°	3912.3	3946.6	4016.9	4190.2	4393.1	4627.3	4836.5	4977.0	5025.4	*5000.4*
15°	3639.1	3668.7	3721.8	3899.8	4163.6	4519.6	4863.0	5136.2	5259.5	*5245.5*
17.5°	3631.3	3643.7	3676.5	3760.8	3963.8	4351.0	4834.9	5292.3	5528.1	*5526.5*
20°	3768.6	3773.3	3792.1	3809.2	3924.8	4222.9	4763.1	5421.9	5829.4	*5829.4*
22.5°	3959.1	3956.0	3974.7	3959.1	4015.3	4212.0	4717.8	5535.9	6165.0	*6190.0*
25°	4244.8	4229.2	4224.5	4188.6	4199.5	4313.5	4767.8	5665.5	6563.1	*6614.6*
27.5°	4625.7	4600.7	4583.6	4500.8	4472.7	4522.7	4920.8	5821.6	7006.5	*7095.5*
30°	5122.2	5076.9	5051.9	4908.3	4806.8	4814.6	5151.8	6029.2	7470.2	*7613.8*
32.5°	5799.7	5729.5	5662.3	5426.6	5240.8	5179.9	5450.0	6316.5	7972.8	*8202.3*
35°	6558.4	6502.2	6430.4	6066.7	5781.0	5640.5	5852.8	6717.7	8561.4	*8925.2*
37.5°	7289.1	7240.7	7275.0	6784.8	6416.4	6211.9	6380.5	7256.3	9287.3	*9824.4*
40°	8044.7	8007.2	8011.9	7543.5	7114.2	6884.7	7020.5	7932.3	10119.4	*10893.8*
42.5°	8865.8	8837.7	8744.1	8328.8	7846.4	7632.5	7757.4	8712.8	11012.4	*12111.5*
45°	9785.4	9768.2	9680.8	9204.6	8652.0	8411.5	8580.1	9574.6	11910.1	*13257.4*
47.5°	10580.0	10594.0	10583.1	10181.9	9608.9	9256.1	9457.5	10473.8	12745.3	*14334.6*
50°	10962.5	11035.8	11143.6	11018.7	10662.7	10303.7	10342.7	11341.8	13541.5	*15344.6*
52.5°	10762.6	10901.6	11195.1	11394.9	11532.3	11457.4	11352.8	12203.6	14290.9	*16256.4*
55°	10018.0	10213.1	10700.2	11182.6	11883.6	12428.4	12565.8	13159.0	15021.5	*17058.8*
57.5°	8661.3	8978.2	9415.4	10391.1	11571.3	12898.3	13980.2	14484.4	15795.8	*17915.9*
60°	6335.2	6759.8	7303.1	8755.0	10478.5	12647.0	15183.8	16520.2	16896.4	*19025.9*
62.5°	4054.3	4316.6	4816.2	6183.8	8164.9	11359.0	15552.3	19064.9	18762.0	*20846.2*
65°	2775.7	2944.3	3401.8	4169.9	5278.3	8455.2	14565.6	20972.6	21725.1	*23731.2*
67.5°	2017.0	2145.0	2535.3	3208.2	3439.2	5003.5	11302.8	20885.2	24605.5	*26703.7*
70°	*1470.6*	*1561.2*	*1889.0*	*2535.3*	*2646.2*	*2783.5*	*6847.3*	*17753.5*	*24543.0*	*27493.6*
72.5°	1089.7	1152.1	1372.3	1967.1	2141.9	1879.6	3389.3	12903.0	21089.7	*24867.7*
75°	788.4	835.2	997.6	1505.0	1714.2	1431.6	1690.7	7540.4	14710.8	*17492.8*
77.5°	602.6	638.5	744.7	1102.2	1372.3	1074.1	1049.1	3468.9	6975.3	*7009.6*
80°	484.0	507.4	565.1	775.9	1052.2	804.0	683.8	1400.4	2204.4	*1865.6*
82.5°	355.9	395.0	477.7	544.8	752.5	554.2	416.8	707.2	838.3	*721.3*
85°	203.0	229.5	288.8	390.3	480.8	338.8	238.9	313.8	390.3	*320.0*
87.5°	71.8	93.7	101.5	153.0	209.2	140.5	92.1	90.5	128.0	*95.2*
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4313.5	0°	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5	4313.5
4360.3	2.5°	4344.7	4336.9	4305.7	4263.5	4219.8	4177.7	4163.6	4134.0	4113.7	4102.7
4461.8	5°	4432.1	4407.2	4333.8	4240.1	4141.8	4035.6	3960.7	3892.0	3842.0	3795.2
4600.7	7.5°	4557.0	4513.3	4386.9	4222.9	4048.1	3871.7	3740.5	3640.6	3573.5	3529.8
4763.1	10°	4702.2	4635.1	4441.5	4196.4	3926.3	3673.4	3518.9	3433.0	3390.8	3367.4
4948.9	12.5°	4869.3	4774.0	4497.7	4135.5	3740.5	3451.7	3345.6	3320.6	3322.1	3323.7
5183.1	15°	5075.3	4942.6	4543.0	4002.8	3498.6	3281.6	3262.8	3303.4	3345.6	3365.9
5448.5	17.5°	5307.9	5120.6	4550.8	3784.3	3261.3	3172.3	3231.6	3319.0	3383.0	3411.1
5745.1	20°	5557.7	5301.7	4494.6	3475.1	3066.1	3083.3	3189.5	3301.9	3372.1	3408.0
6083.8	22.5°	5843.4	5495.3	4360.3	3150.4	2906.9	2986.5	3111.4	3220.7	3294.0	3330.0
6481.9	25°	6169.7	5712.3	4149.6	2877.2	2769.5	2877.2	3002.1	3092.7	3152.0	3184.8
6926.9	27.5°	6531.9	5938.7	3868.6	2660.2	2649.3	2764.8	2867.9	2938.1	2969.3	2994.3
7399.9	30°	6895.6	6144.7	3528.2	2496.3	2544.7	2654.0	2727.3	2758.6	2767.9	2772.6
7927.6	32.5°	7289.1	6322.7	3170.7	2360.5	2444.8	2546.3	2590.0	2604.0	2560.3	2530.6
8567.6	35°	7765.2	6513.2	2821.0	2252.8	2346.4	2433.8	2447.9	2435.4	2383.9	2323.0
9370.1	37.5°	8353.8	6750.5	2541.6	2176.3	2254.3	2312.1	2294.9	2291.8	2296.5	2224.7
10334.9	40°	9075.0	7059.6	2337.1	2116.9	2179.4	2191.9	2143.5	2170.0	2193.4	2084.1
11393.3	42.5°	9875.9	7432.7	2207.5	2076.3	2116.9	2087.3	2012.3	2042.0	2038.9	1895.2
12456.5	45°	10692.4	7838.6	2162.2	2046.7	2059.2	1999.8	1917.1	1924.9	1859.3	1729.8
13475.9	47.5°	11504.2	8274.2	2190.3	2021.7	1987.4	1920.2	1856.2	1821.9	1725.1	1628.3
14453.2	50°	12300.4	8731.6	2293.3	1971.7	1889.0	1850.0	1803.1	1742.3	1639.2	1556.5
15377.4	52.5°	13038.8	9192.1	2408.9	1889.0	1765.7	1789.1	1759.4	1689.2	1587.7	1503.4
16251.7	55°	13738.2	9652.7	2454.1	1775.0	1650.1	1736.0	1718.8	1589.3	1467.5	1398.8
17166.5	57.5°	14500.1	10206.9	2404.2	1629.9	1556.5	1675.1	1609.6	1465.9	1395.7	1344.2
18357.7	60°	15555.4	11076.4	2296.5	1450.3	1467.5	1584.6	1472.2	1412.9	1336.4	1278.6
20143.7	62.5°	17308.6	12698.5	2123.2	1272.3	1362.9	1450.3	1406.6	1347.3	1269.2	1213.0
23197.3	65°	19900.1	14952.8	1796.9	1133.4	1245.8	1319.2	1336.4	1277.0	1195.8	1136.5
25873.1	67.5°	22085.7	16367.2	1359.8	1017.9	1125.6	1213.0	1261.4	1203.7	1117.8	1060.0
26499.1	70°	*21965.5*	*15340.0*	*1038.2*	*903.9*	*1019.4*	*1108.4*	*1170.9*	*1125.6*	*1033.5*	*978.8*
24070.0	72.5°	19509.8	12832.7	839.9	788.4	911.7	999.1	1074.1	1039.7	946.1	893.0
17633.3	75°	14333.0	9109.4	671.3	671.3	777.5	885.2	967.9	946.1	860.2	822.7
7403.0	77.5°	6041.7	3821.7	526.1	557.3	646.3	760.3	863.3	871.1	796.2	843.0
1957.7	80°	1606.4	1053.8	401.2	438.7	507.4	627.6	750.9	747.8	666.6	622.9
727.5	82.5°	612.0	415.3	285.7	309.1	366.9	480.8	594.8	613.5	532.4	460.5
285.7	85°	235.7	178.0	176.4	185.8	213.9	318.5	449.6	465.2	401.2	340.3
79.6	87.5°	60.9	53.1	65.6	62.4	98.4	170.2	257.6	267.0	245.1	142.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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180°
4313.5
4115.2
3813.9
3539.2
3373.7
3326.8
3364.3
3417.4
3417.4
3339.3
3194.1
3003.7
2783.5
2540.0
2326.1
2229.3
2087.3
1893.7
1734.4
1628.3
1550.2
1505.0
1392.6
1339.5
1275.5
1213.0
1139.6
1061.6
983.5
893.0
811.8
765.0
579.2
460.5
351.3
203.0
0.0

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