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: P956163

Luminaire Tested: **GALN-SB8D-927-U-T2R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P956163
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8D-927-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	51016 lumens
Efficiency:	N/A
Efficacy:	87.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	584.9
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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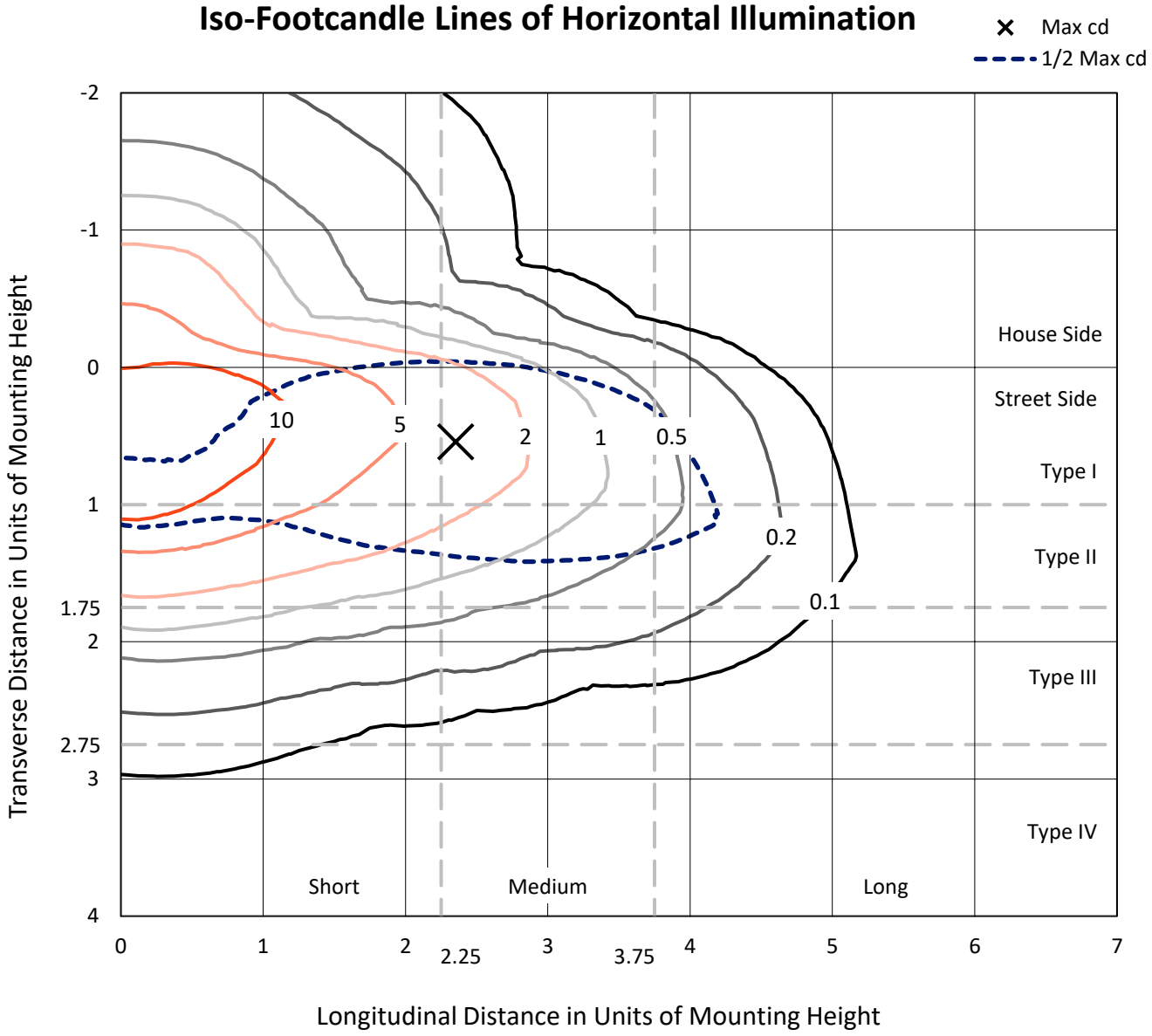
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
Type II - Medium - N/A

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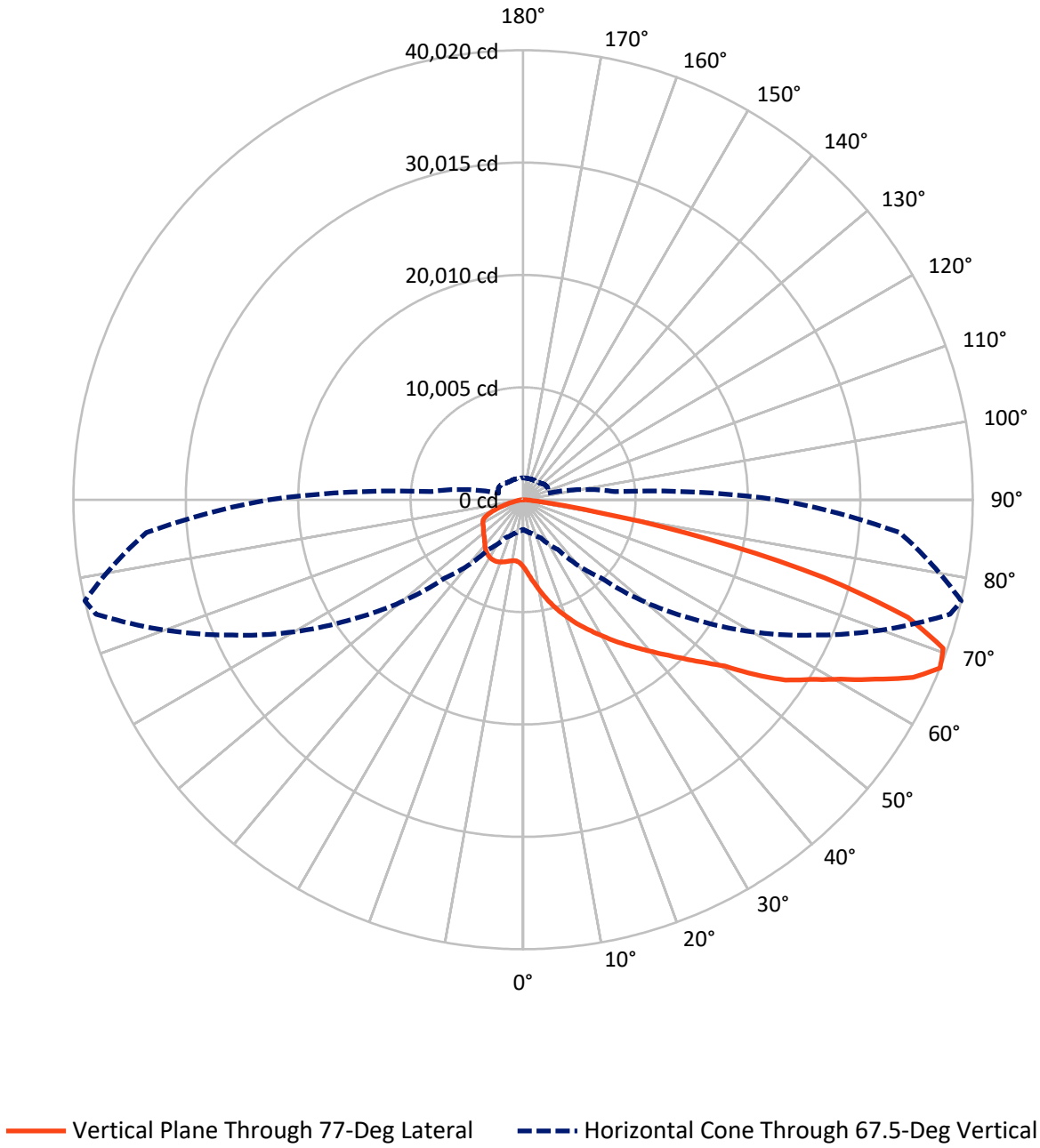
Luminous Intensity Polar Plot



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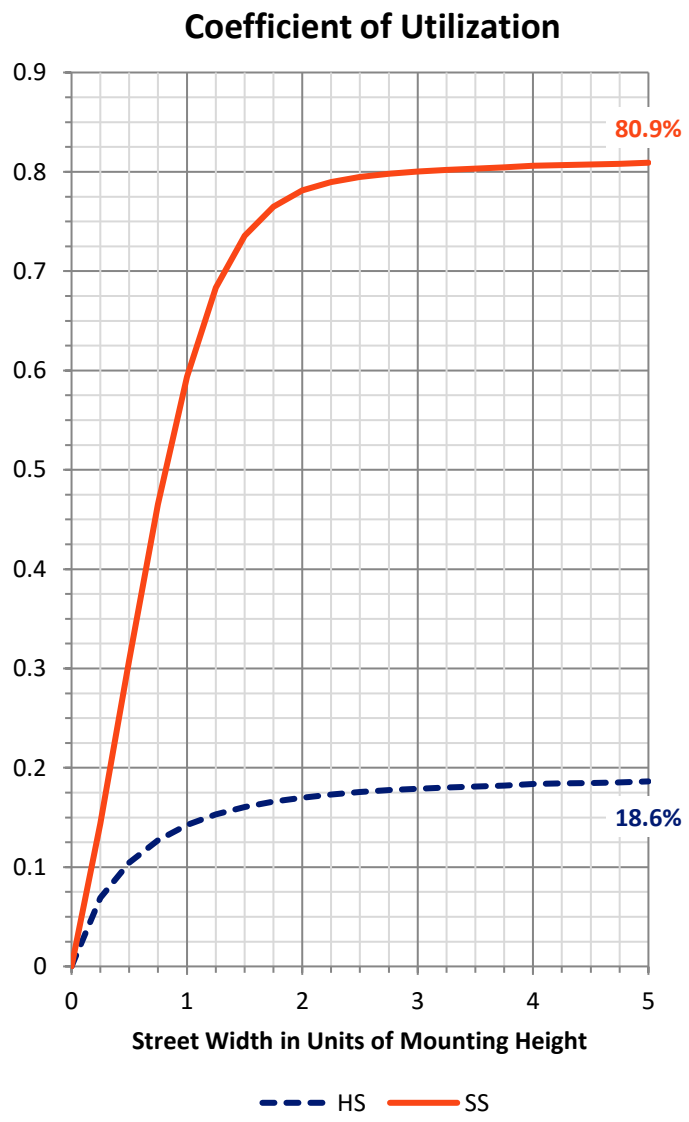
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9650.2	0.0	9650.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	41365.8	0.0	41365.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	51016.0	0.0	51016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.6	1.3
10°-20°	2305.0	4.5
20°-30°	4352.0	8.5
30°-40°	7011.1	13.7
40°-50°	9589.9	18.8
50°-60°	10817.4	21.2
60°-70°	10096.7	19.8
70°-80°	5534.7	10.8
80°-90°	667.6	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°	51016.0	100.0
0°-180°	51016.0	100.0



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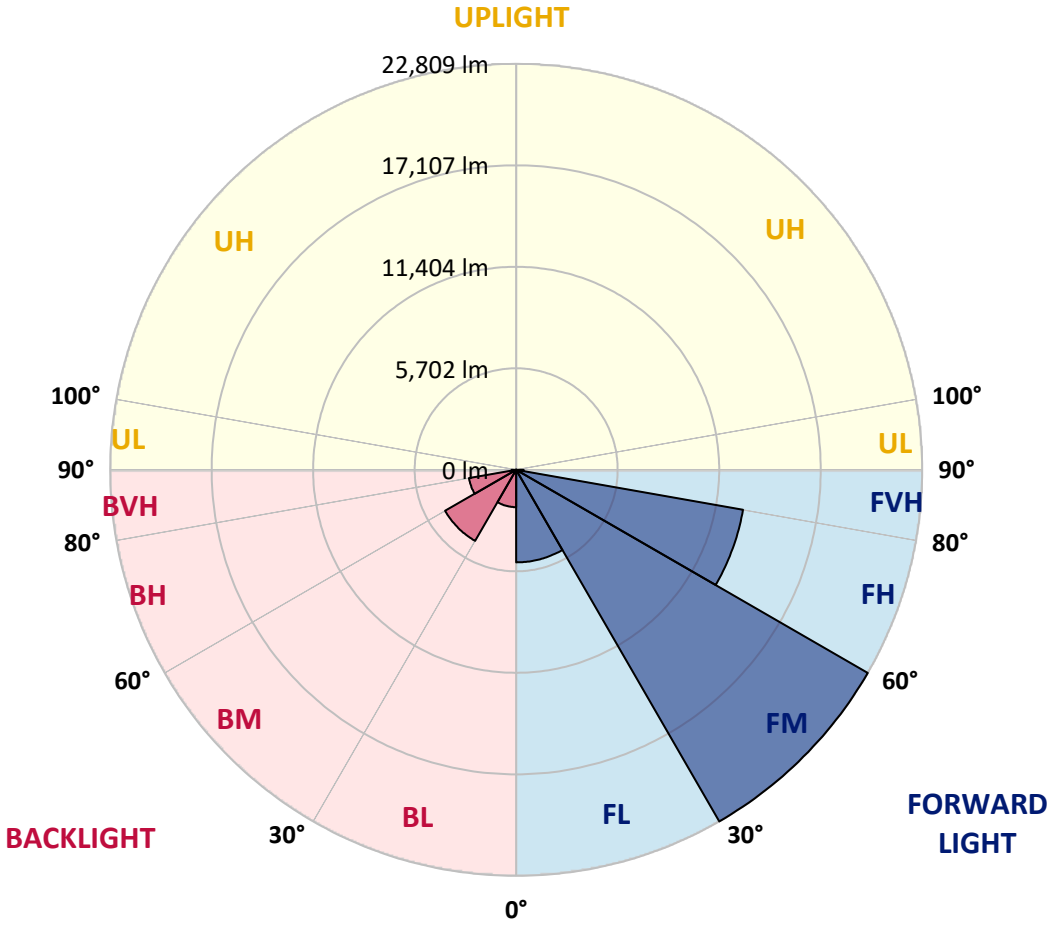
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5200.4	10.2			
FM	(30°-60°)	22808.7	44.7			
FH	(60°-80°)	12939.2	25.4			G5
FVH	(80°-90°)	417.5	0.8			G3/500
BL	(0°-30°)	2098.2	4.1	B3/2500		
BM	(30°-60°)	4609.6	9.0	B3/5000		
BH	(60°-80°)	2692.3	5.3	B4/5000		G4/5000
BVH	(80°-90°)	250.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	*5985.8*
2.5°	7494.7	7547.4	7481.5	7481.5	7260.3	7144.5	6923.3	6754.7	6451.9	*6399.2*
5°	8858.8	8924.7	8832.5	8793.0	8532.3	8292.6	7921.3	7555.3	7015.4	*6960.1*
7.5°	9914.8	9999.1	9917.5	9875.3	9643.6	9375.0	8940.5	8429.6	7668.5	*7560.5*
10°	10776.0	10789.1	10762.8	10778.6	10596.9	10375.7	9930.6	9335.5	8384.8	*8237.3*
12.5°	11263.1	11323.7	11376.4	11471.2	11439.6	11302.6	10902.4	10191.3	9143.2	*8953.6*
15°	11492.2	11597.6	11716.1	11934.7	12111.1	12145.3	11839.9	11110.4	9914.8	*9685.7*
17.5°	11573.9	11673.9	11860.9	12176.9	12556.1	12811.6	12674.6	12003.1	10678.5	*10415.2*
20°	11987.3	12016.3	12129.5	12429.7	12840.6	13264.5	13367.2	12861.6	11434.3	*11136.7*
22.5°	12872.2	12814.2	12845.8	12982.8	13277.7	13688.5	13922.9	13620.0	12211.2	*11868.8*
25°	14333.7	14165.2	13996.6	13838.6	13988.7	14220.5	14486.4	14378.5	13024.9	*12590.4*
27.5°	16179.7	15974.3	15603.0	15084.2	14902.5	14984.2	15102.7	15081.6	13778.0	*13338.3*
30°	17996.8	17757.1	17314.7	16564.2	16084.9	15869.0	15779.4	15718.9	14597.0	*14128.3*
32.5°	19447.8	19258.2	18823.7	17983.6	17288.4	16919.7	16622.1	16406.2	15452.9	*14984.2*
35°	20717.1	20540.7	20043.0	19126.5	18370.7	17978.4	17588.6	17127.8	16343.0	*15869.0*
37.5°	21875.8	21699.4	21017.3	20064.0	19303.0	19031.7	18684.1	17902.0	17235.7	*16788.0*
40°	22607.9	22568.4	21931.1	20851.4	20061.4	19927.1	19811.2	18800.0	18225.9	*17809.8*
42.5°	22794.9	22881.8	22376.2	21488.7	20735.5	20627.6	20898.8	19816.5	19337.2	*18939.6*
45°	22344.6	22594.7	22262.9	21659.9	21214.8	21156.9	21862.6	20927.8	20567.0	*20203.6*
47.5°	21204.3	21628.3	21491.3	21407.1	21343.9	21594.0	22710.6	22107.6	21960.1	*21644.1*
50°	18902.7	19705.9	19945.5	20477.5	21088.4	21933.7	23482.2	23395.3	23587.5	*23268.9*
52.5°	14923.6	16029.6	17420.1	18752.6	20303.7	21820.5	24330.2	25244.0	26055.0	*25881.2*
55°	12319.1	12816.9	13886.0	16329.8	18781.5	21343.9	24712.0	26737.1	28504.1	*28348.8*
57.5°	10317.7	10762.8	11421.1	13462.0	16479.9	20261.5	24949.0	27648.3	30181.6	*30165.8*
60°	8171.5	8642.9	9317.0	10762.8	13791.2	18391.8	24896.3	28685.8	32322.6	*32454.3*
62.5°	5748.8	6267.5	7015.4	8363.7	11044.6	15969.1	23821.9	29436.4	34842.8	*35200.9*
65°	3779.0	4121.3	4684.9	5848.8	8229.4	12853.7	21770.5	29533.8	37539.4	*38145.1*
67.5°	*2649.2*	*2780.9*	*3112.7*	*3744.7*	*5424.8*	*9856.9*	*18502.4*	*28525.2*	*39338.0*	*40020.1*
70°	2067.2	2133.1	2301.6	2554.4	3407.6	6628.3	14178.3	25902.3	38953.5	*39664.6*
72.5°	1785.5	1848.7	1911.9	1943.5	2285.8	4092.3	9604.1	21657.2	35332.6	*35814.5*
75°	1619.6	1635.4	1688.0	1677.5	1743.3	2654.5	5543.3	15779.4	27877.4	*27711.5*
77.5°	1361.5	1382.5	1469.4	1456.3	1548.5	1814.4	2878.3	10183.4	18073.2	*16946.1*
80°	1153.4	1164.0	1258.8	1243.0	1345.7	1314.1	1469.4	5190.5	7665.9	*6494.0*
82.5°	400.3	495.1	961.2	990.2	1027.0	795.3	848.0	2117.3	2341.1	*1793.4*
85°	194.9	208.0	489.8	695.2	692.6	400.3	413.4	755.8	737.4	*579.4*
87.5°	31.6	39.5	57.9	271.2	215.9	105.3	142.2	147.5	152.7	*131.7*
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°
5985.8	0°	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8	5985.8
6199.1	2.5°	6051.6	5919.9	5643.4	5388.0	5187.8	4995.6	4887.6	4795.5	4742.8	4732.3
6488.7	5°	6214.9	5943.6	5440.6	5016.7	4740.2	4534.7	4426.8	4358.3	4324.1	4303.0
6878.5	7.5°	6449.2	6051.6	5335.3	4853.4	4563.7	4416.2	4360.9	4350.4	4347.8	4350.4
7349.9	10°	6773.2	6228.0	5324.8	4813.9	4571.6	4490.0	4487.3	4490.0	4500.5	4503.1
7863.4	12.5°	7123.4	6409.7	5366.9	4848.1	4671.7	4626.9	4619.0	4616.4	4624.3	4629.6
8382.2	15°	7505.2	6649.4	5438.0	4921.9	4782.3	4734.9	4727.0	4711.2	4708.6	4705.9
8927.3	17.5°	7897.6	6886.4	5517.0	5000.9	4853.4	4787.6	4758.6	4721.7	4692.8	4684.9
9490.8	20°	8295.3	7120.8	5572.3	5040.4	4858.7	4766.5	4708.6	4645.4	4595.3	4566.3
10059.7	22.5°	8719.3	7365.7	5606.5	5029.8	4811.3	4684.9	4579.5	4505.8	4429.4	4379.4
10633.7	25°	9132.7	7579.0	5603.9	4974.5	4719.1	4558.4	4424.1	4329.3	4224.0	4171.3
11226.3	27.5°	9530.3	7771.2	5538.1	4877.1	4587.4	4408.3	4247.7	4134.5	4031.8	3981.7
11824.1	30°	9941.2	7931.9	5435.4	4734.9	4432.0	4234.5	4058.1	3960.7	3868.5	3821.1
12456.1	32.5°	10349.3	8079.3	5290.5	4558.4	4253.0	4063.4	3889.6	3800.0	3744.7	3744.7
13135.5	35°	10781.2	8182.0	5098.3	4353.0	4063.4	3881.7	3744.7	3692.1	3686.8	3655.2
13854.4	37.5°	11236.8	8247.9	4863.9	4142.4	3876.4	3705.2	3663.1	3599.9	3547.2	3478.7
14644.4	40°	11716.1	8313.7	4582.1	3923.8	3678.9	3584.1	3565.6	3481.4	3331.3	3162.7
15539.8	42.5°	12298.1	8358.5	4289.8	3705.2	3470.8	3439.2	3465.6	3320.7	3081.1	2954.7
16619.5	45°	12972.2	8432.2	4021.2	3489.3	3257.5	3257.5	3368.1	3178.5	2981.0	2902.0
17851.9	47.5°	13846.5	8603.4	3771.1	3252.3	3060.0	3112.7	3152.2	3007.4	2896.8	2799.3
19353.0	50°	15110.6	9014.2	3513.0	3012.6	2909.9	3015.3	2960.0	2875.7	2746.7	2667.7
21738.9	52.5°	16680.1	9256.5	3283.9	2796.7	2780.9	2886.2	2807.2	2728.2	2630.8	2525.4
23548.0	55°	17749.2	9301.2	3091.6	2638.7	2694.0	2683.5	2654.5	2583.4	2530.7	2391.1
25333.5	57.5°	18944.8	9390.8	2933.6	2543.9	2638.7	2522.8	2512.3	2451.7	2383.2	2288.4
27511.3	60°	20374.8	9530.3	2796.7	2507.0	2591.3	2417.5	2364.8	2341.1	2272.6	2225.2
30131.6	62.5°	21933.7	9656.7	2657.1	2512.3	2536.0	2314.8	2235.8	2227.9	2185.7	2169.9
32591.2	65°	22997.6	9311.8	2483.3	2507.0	2449.1	2209.4	2109.4	2106.7	2072.5	2067.2
33657.7	67.5°	*22626.3*	*8218.9*	*2248.9*	*2433.3*	*2359.5*	*2104.1*	*1993.5*	*1983.0*	*1938.2*	*1940.8*
32543.8	70°	20767.1	6659.9	1925.0	2251.6	2248.9	2009.3	1872.4	1838.1	1777.6	1788.1
28296.1	72.5°	17280.5	4935.0	1490.5	1948.7	2072.5	1922.4	1732.8	1677.5	1601.1	1611.7
20888.3	75°	12479.8	3355.0	1085.0	1482.6	1803.9	1819.7	1595.9	1501.0	1408.9	1424.7
11626.5	77.5°	6386.0	1901.3	797.9	1021.8	1416.8	1653.8	1472.1	1345.7	1324.6	1472.1
3352.3	80°	2083.0	953.3	553.0	716.3	929.6	1353.6	1290.4	1145.5	1140.3	1174.5
703.1	82.5°	621.5	402.9	355.5	471.4	513.5	1037.6	1113.9	866.4	745.3	784.8
234.4	85°	213.3	194.9	202.8	234.4	244.9	608.3	779.5	574.1	542.5	597.8
52.7	87.5°	50.0	68.5	57.9	52.7	52.7	147.5	302.8	239.6	331.8	221.2
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

180°
5985.8
4732.3
4300.4
4358.3
4505.8
4632.2
4703.3
4692.8
4576.9
4382.0
4171.3
3979.1
3818.5
3747.4
3647.3
3468.2
3139.0
2957.3
2915.2
2796.7
2659.8
2504.4
2393.8
2256.8
2238.4
2169.9
2064.6
1940.8
1798.6
1609.0
1429.9
1451.0
1008.6
811.1
589.9
213.3
0.0

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