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

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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: P950640

Luminaire Tested: **GALN-SB5A-740-U-T2R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P950640
	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-SB5A-740-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24418 lumens
Efficiency:	N/A
Efficacy:	172.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	141.7
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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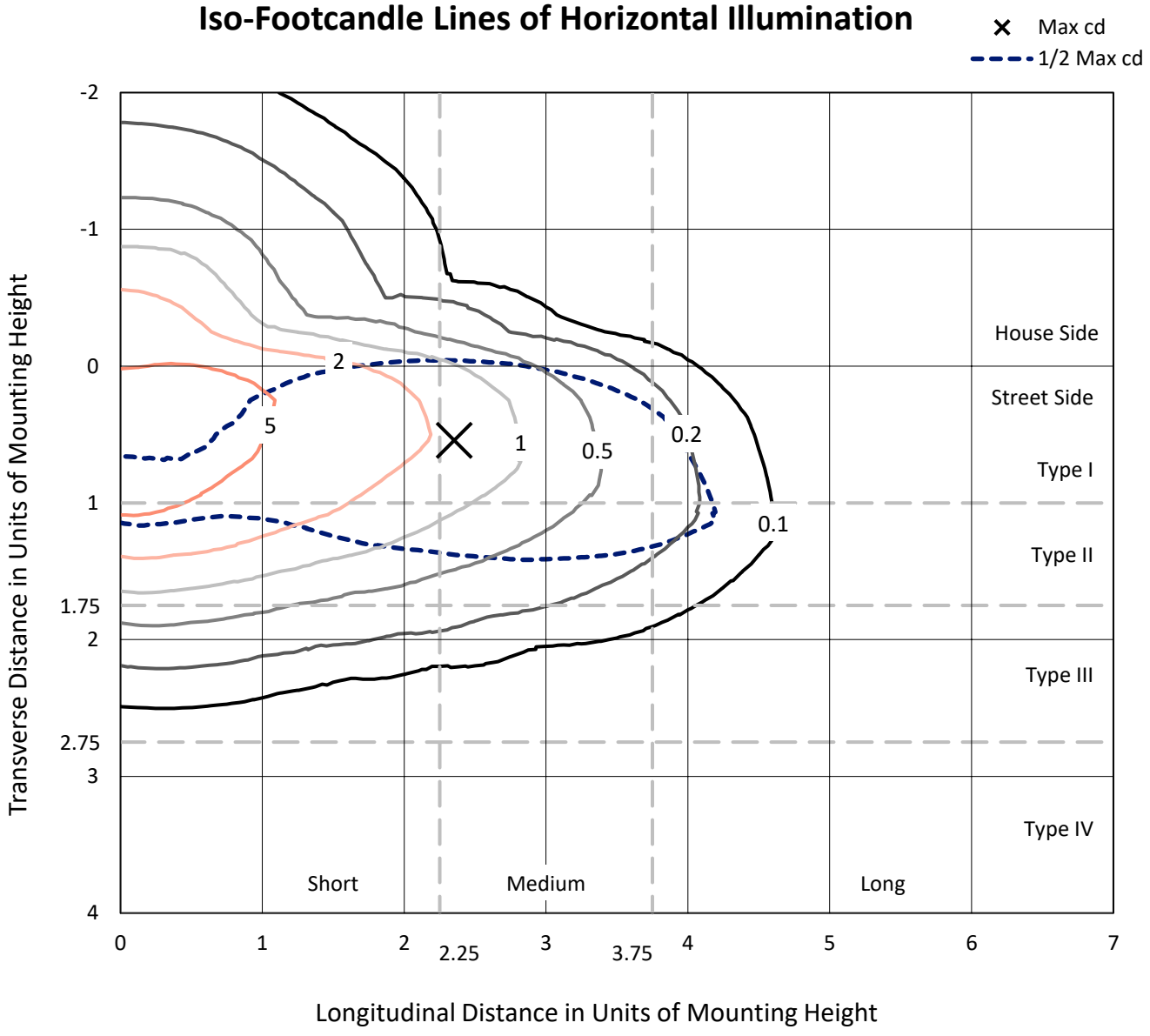
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Medium - N/A

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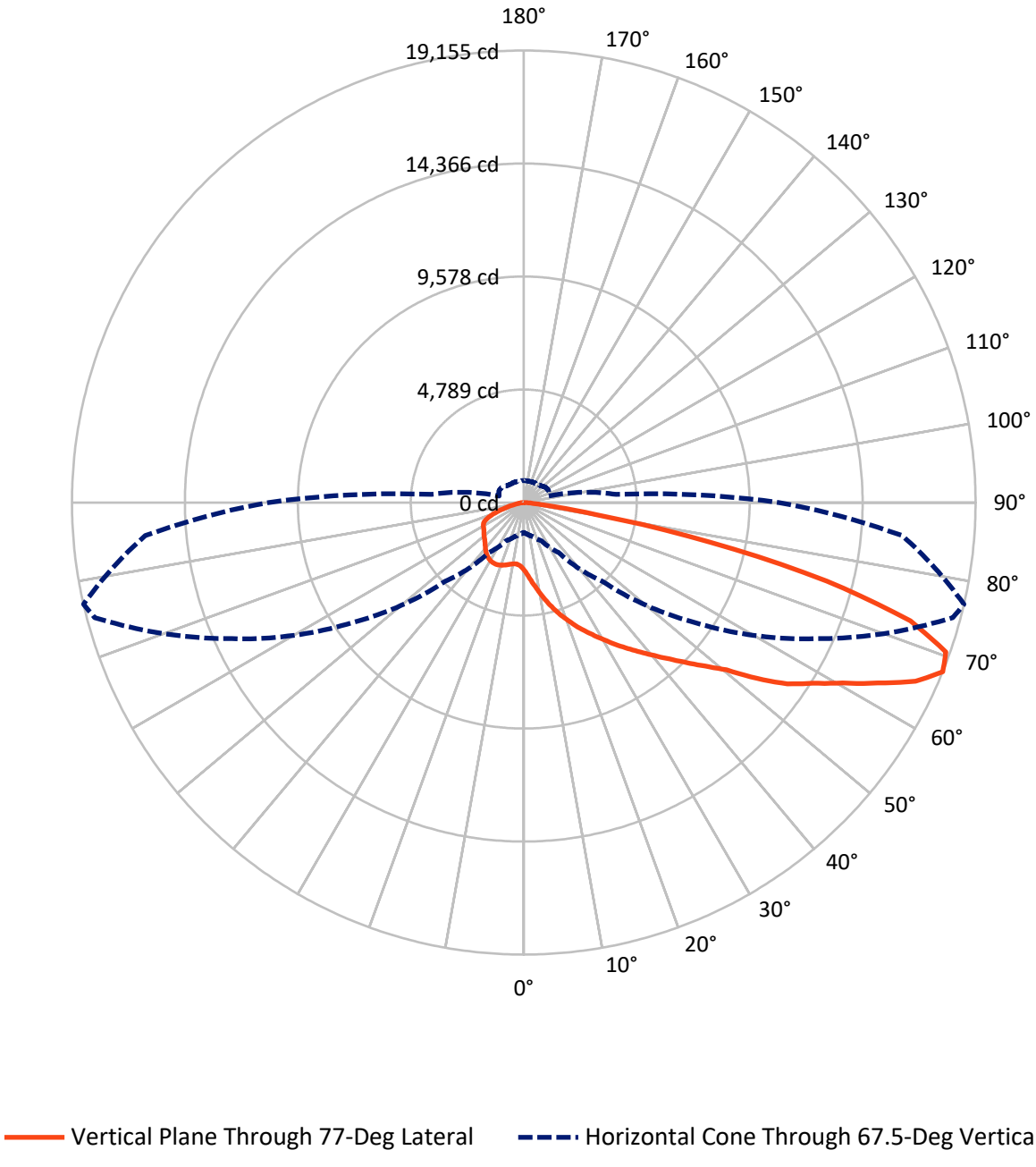
Luminous Intensity Polar Plot



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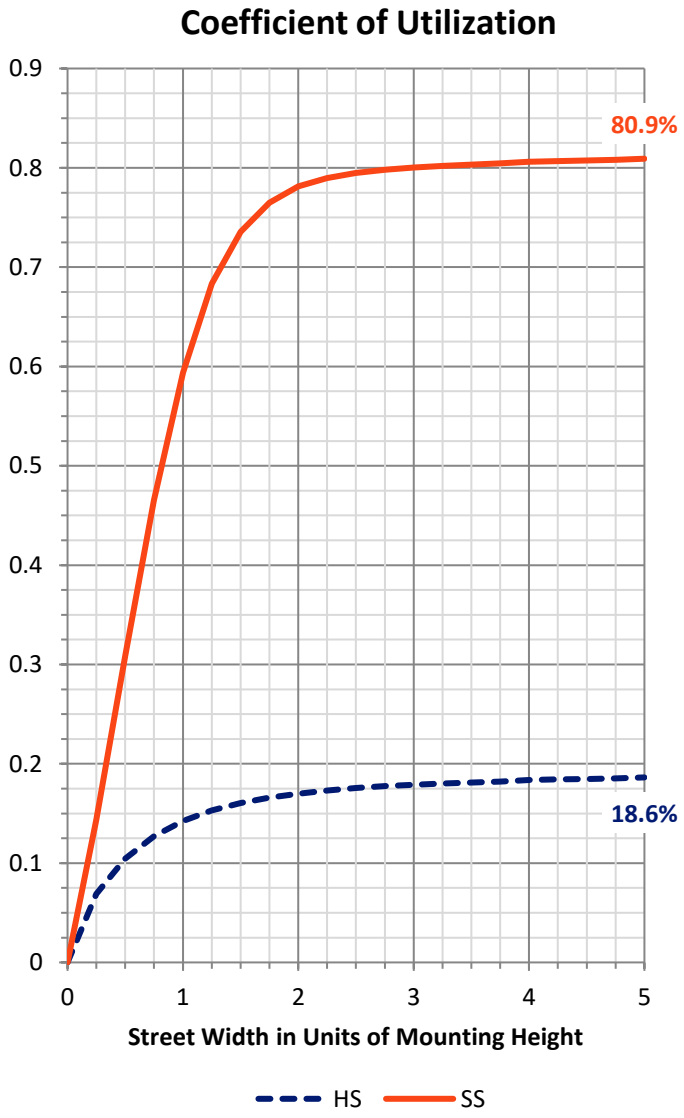
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4618.9	0.0	4618.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	19799.1	0.0	19799.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	24418.0	0.0	24418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	1.3
10°-20°	1103.2	4.5
20°-30°	2083.0	8.5
30°-40°	3355.7	13.7
40°-50°	4590.0	18.8
50°-60°	5177.6	21.2
60°-70°	4832.6	19.8
70°-80°	2649.1	10.8
80°-90°	319.5	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°	24418.0	100.0
0°-180°	24418.0	100.0



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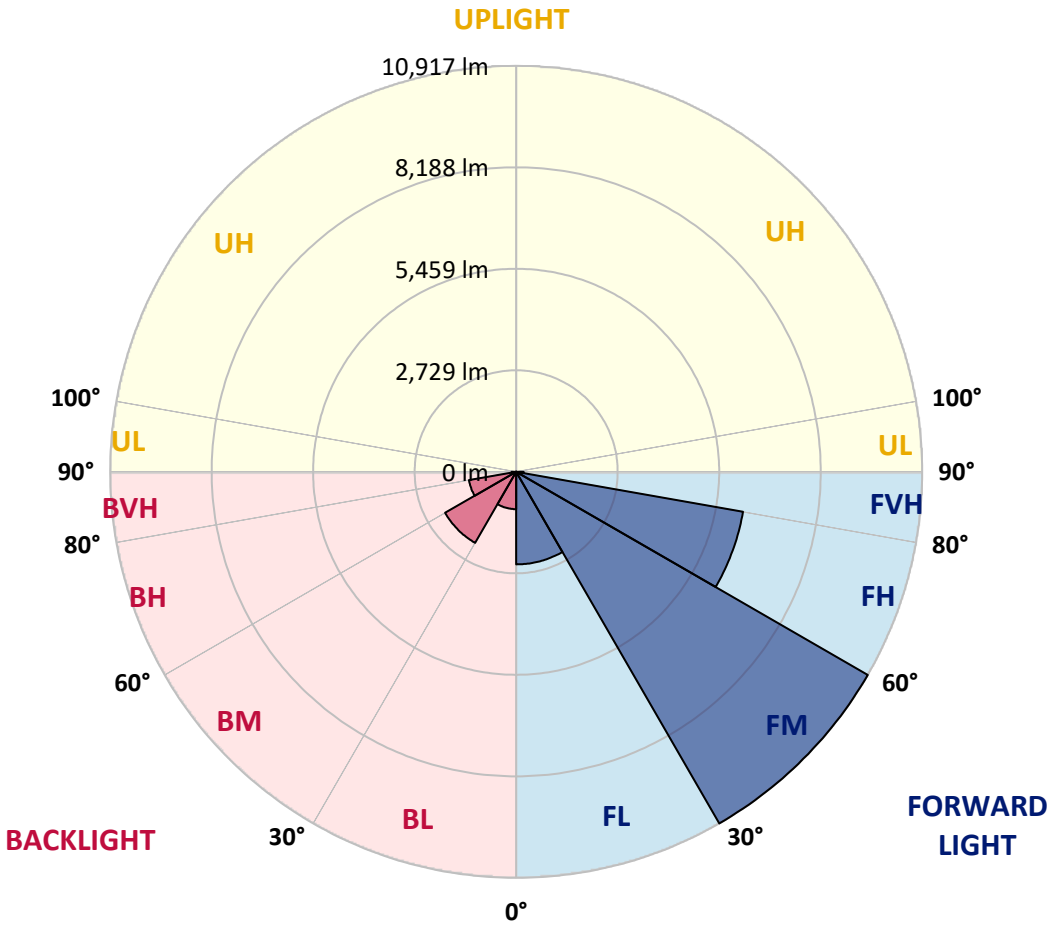
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2489.1	10.2			
FM	(30°-60°)	10917.0	44.7			
FH	(60°-80°)	6193.1	25.4			G3/7500
FVH	(80°-90°)	199.8	0.8			G2/225
BL	(0°-30°)	1004.3	4.1	B3/2500		
BM	(30°-60°)	2206.3	9.0	B2/2500		
BH	(60°-80°)	1288.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	119.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	*2865.0*
2.5°	3587.2	3612.4	3580.9	3580.9	3475.0	3419.6	3313.7	3233.0	3088.1	*3062.9*
5°	4240.1	4271.6	4227.5	4208.6	4083.8	3969.1	3791.4	3616.2	3357.8	*3331.4*
7.5°	4745.6	4785.9	4746.8	4726.7	4615.7	4487.2	4279.2	4034.7	3670.4	*3618.7*
10°	5157.7	5164.0	5151.4	5159.0	5072.0	4966.2	4753.1	4468.3	4013.3	*3942.7*
12.5°	5390.9	5419.9	5445.1	5490.5	5475.4	5409.8	5218.2	4877.9	4376.3	*4285.5*
15°	5500.6	5551.0	5607.7	5712.3	5796.8	5813.2	5667.0	5317.8	4745.6	*4635.9*
17.5°	5539.7	5587.5	5677.0	5828.3	6009.8	6132.1	6066.5	5745.1	5111.1	*4985.1*
20°	5737.5	5751.4	5805.6	5949.3	6145.9	6348.9	6398.0	6156.0	5472.8	*5330.4*
22.5°	6161.1	6133.3	6148.4	6214.0	6355.2	6551.8	6664.0	6519.0	5844.7	*5680.8*
25°	6860.6	6779.9	6699.3	6623.6	6695.5	6806.4	6933.7	6882.0	6234.2	*6026.2*
27.5°	7744.2	7645.9	7468.1	7219.8	7132.9	7171.9	7228.6	7218.6	6594.6	*6384.2*
30°	8613.9	8499.2	8287.4	7928.2	7698.8	7595.4	7552.6	7523.6	6986.6	*6762.3*
32.5°	9308.4	9217.6	9009.7	8607.6	8274.8	8098.4	7955.9	7852.6	7396.3	*7171.9*
35°	9915.9	9831.5	9593.2	9154.6	8792.9	8605.1	8418.5	8197.9	7822.3	*7595.4*
37.5°	10470.5	10386.1	10059.6	9603.3	9239.1	9109.2	8942.9	8568.5	8249.6	*8035.3*
40°	10820.9	10802.0	10497.0	9980.2	9602.1	9537.8	9482.3	8998.3	8723.5	*8524.4*
42.5°	10910.4	10952.0	10710.0	10285.2	9924.7	9873.1	10002.9	9484.8	9255.4	*9065.1*
45°	10694.9	10814.6	10655.8	10367.2	10154.1	10126.4	10464.2	10016.8	9844.1	*9670.1*
47.5°	10149.1	10352.0	10286.5	10246.2	10215.9	10335.6	10870.1	10581.4	10510.8	*10359.6*
50°	9047.5	9431.9	9546.6	9801.2	10093.6	10498.2	11239.4	11197.8	11289.8	*11137.3*
52.5°	7142.9	7672.3	8337.8	8975.6	9718.0	10444.0	11645.2	12082.6	12470.8	*12387.6*
55°	5896.4	6134.6	6646.3	7816.0	8989.5	10215.9	11828.0	12797.3	13643.0	*13568.7*
57.5°	4938.4	5151.4	5466.5	6443.4	7887.9	9697.9	11941.4	13233.4	14446.0	*14438.4*
60°	3911.2	4136.8	4459.5	5151.4	6600.9	8802.9	11916.2	13730.0	15470.7	*15533.7*
62.5°	2751.6	2999.9	3357.8	4003.2	5286.3	7643.3	11402.0	14089.2	16676.9	*16848.4*
65°	1808.7	1972.6	2242.3	2799.4	3938.9	6152.2	10420.1	14135.9	17967.6	*18257.5*
67.5°	*1268.0*	*1331.0*	*1489.8*	*1792.4*	*2596.5*	*4717.8*	*8855.9*	*13653.1*	*18828.5*	*19155.0*
70°	989.4	1021.0	1101.6	1222.6	1631.0	3172.5	6786.2	12397.7	18644.5	*18984.8*
72.5°	854.6	884.8	915.1	930.2	1094.1	1958.7	4596.8	10365.9	16911.4	*17142.0*
75°	775.2	782.7	807.9	802.9	834.4	1270.5	2653.2	7552.6	13343.1	*13263.7*
77.5°	651.6	661.7	703.3	697.0	741.1	868.4	1377.7	4874.1	8650.4	*8111.0*
80°	552.1	557.1	602.5	594.9	644.1	629.0	703.3	2484.3	3669.2	*3108.3*
82.5°	191.6	237.0	460.1	473.9	491.6	380.7	405.9	1013.4	1120.5	*858.4*
85°	93.3	99.6	234.4	332.8	331.5	191.6	197.9	361.7	352.9	*277.3*
87.5°	15.1	18.9	27.7	129.8	103.4	50.4	68.1	70.6	73.1	*63.0*
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°
2865.0	0°	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0	2865.0
2967.1	2.5°	2896.5	2833.5	2701.1	2578.9	2483.1	2391.1	2339.4	2295.3	2270.1	2265.0
3105.7	5°	2974.6	2844.8	2604.1	2401.1	2268.8	2170.5	2118.8	2086.0	2069.6	2059.6
3292.3	7.5°	3086.8	2896.5	2553.7	2323.0	2184.4	2113.8	2087.3	2082.3	2081.0	2082.3
3517.9	10°	3241.9	2981.0	2548.6	2304.1	2188.1	2149.1	2147.8	2149.1	2154.1	2155.4
3763.7	12.5°	3409.5	3067.9	2568.8	2320.5	2236.0	2214.6	2210.8	2209.6	2213.3	2215.9
4012.0	15°	3592.3	3182.6	2602.8	2355.8	2289.0	2266.3	2262.5	2254.9	2253.7	2252.4
4272.9	17.5°	3780.1	3296.1	2640.6	2393.6	2323.0	2291.5	2277.6	2260.0	2246.1	2242.3
4542.6	20°	3970.4	3408.2	2667.1	2412.5	2325.5	2281.4	2253.7	2223.4	2199.5	2185.6
4814.9	22.5°	4173.3	3525.5	2683.5	2407.4	2302.8	2242.3	2191.9	2156.6	2120.1	2096.1
5089.7	25°	4371.2	3627.6	2682.2	2381.0	2258.7	2181.8	2117.5	2072.2	2021.8	1996.5
5373.3	27.5°	4561.5	3719.6	2650.7	2334.3	2195.7	2110.0	2033.1	1978.9	1929.7	1905.8
5659.4	30°	4758.2	3796.5	2601.6	2266.3	2121.3	2026.8	1942.3	1895.7	1851.6	1828.9
5961.9	32.5°	4953.5	3867.0	2532.2	2181.8	2035.6	1944.9	1861.7	1818.8	1792.4	1792.4
6287.1	35°	5160.3	3916.2	2440.2	2083.5	1944.9	1857.9	1792.4	1767.1	1764.6	1749.5
6631.2	37.5°	5378.3	3947.7	2328.0	1982.7	1855.4	1773.4	1753.3	1723.0	1697.8	1665.0
7009.3	40°	5607.7	3979.2	2193.2	1878.1	1760.8	1715.5	1706.6	1666.3	1594.5	1513.8
7437.9	42.5°	5886.3	4000.7	2053.3	1773.4	1661.3	1646.1	1658.7	1589.4	1474.7	1414.2
7954.7	45°	6208.9	4035.9	1924.7	1670.1	1559.2	1559.2	1612.1	1521.4	1426.8	1389.0
8544.6	47.5°	6627.4	4117.9	1805.0	1556.6	1464.6	1489.8	1508.8	1439.4	1386.5	1339.9
9263.0	50°	7232.4	4314.5	1681.4	1441.9	1392.8	1443.2	1416.7	1376.4	1314.6	1276.8
10405.0	52.5°	7983.7	4430.5	1571.8	1338.6	1331.0	1381.4	1343.6	1305.8	1259.2	1208.8
11270.9	55°	8495.4	4451.9	1479.8	1263.0	1289.4	1284.4	1270.5	1236.5	1211.3	1144.5
12125.5	57.5°	9067.6	4494.7	1404.1	1217.6	1263.0	1207.5	1202.5	1173.5	1140.7	1095.3
13167.9	60°	9752.1	4561.5	1338.6	1199.9	1240.3	1157.1	1131.9	1120.5	1087.8	1065.1
14422.0	62.5°	10498.2	4622.0	1271.8	1202.5	1213.8	1107.9	1070.1	1066.3	1046.2	1038.6
15599.3	65°	11007.5	4456.9	1188.6	1199.9	1172.2	1057.5	1009.6	1008.4	992.0	989.4
16109.7	67.5°	*10829.7*	*3933.8*	*1076.4*	*1164.7*	*1129.4*	*1007.1*	*954.2*	*949.1*	*927.7*	*928.9*
15576.6	70°	9939.9	3187.7	921.4	1077.7	1076.4	961.7	896.2	879.8	850.8	855.8
13543.5	72.5°	8271.0	2362.1	713.4	932.7	992.0	920.1	829.4	802.9	766.4	771.4
9997.8	75°	5973.2	1605.8	519.3	709.6	863.4	871.0	763.8	718.5	674.3	681.9
5564.9	77.5°	3056.6	910.0	381.9	489.1	678.1	791.6	704.6	644.1	634.0	704.6
1604.5	80°	997.0	456.3	264.7	342.8	444.9	647.9	617.6	548.3	545.8	562.2
336.5	82.5°	297.5	192.8	170.2	225.6	245.8	496.6	533.2	414.7	356.7	375.6
112.2	85°	102.1	93.3	97.1	112.2	117.2	291.2	373.1	274.8	259.7	286.1
25.2	87.5°	23.9	32.8	27.7	25.2	25.2	70.6	145.0	114.7	158.8	105.9
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°
2865.0
2265.0
2058.3
2086.0
2156.6
2217.1
2251.2
2246.1
2190.7
2097.4
1996.5
1904.5
1827.6
1793.6
1745.7
1660.0
1502.4
1415.5
1395.3
1338.6
1273.0
1198.7
1145.7
1080.2
1071.4
1038.6
988.2
928.9
860.9
770.1
684.4
694.5
482.8
388.2
282.3
102.1
0.0

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