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: P946864

Luminaire Tested: **GALN-SB2B-850-U-T3R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P946864
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2B-850-U-T3R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11058 lumens
Efficiency:	N/A
Efficacy:	149.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	73.9
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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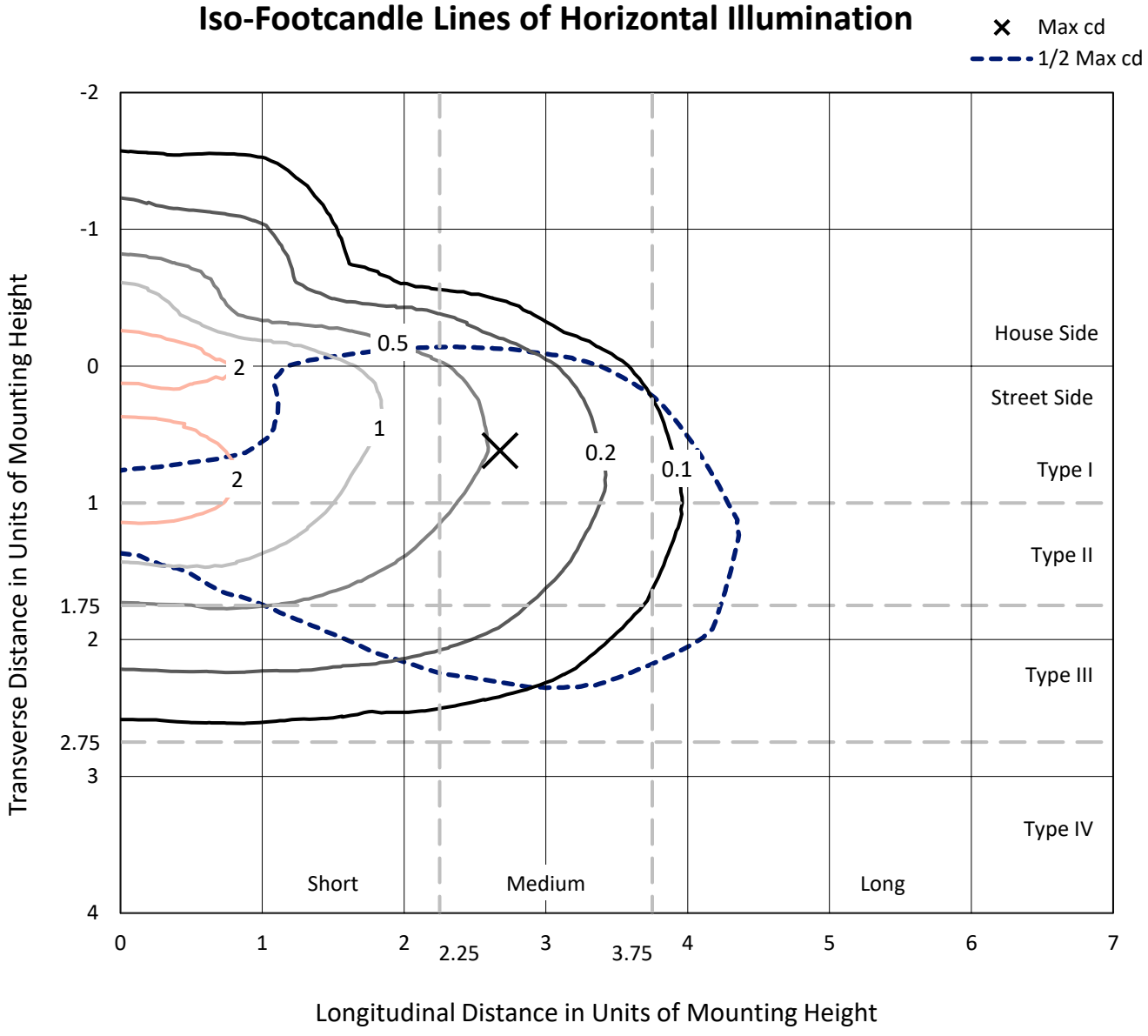
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Medium - N/A

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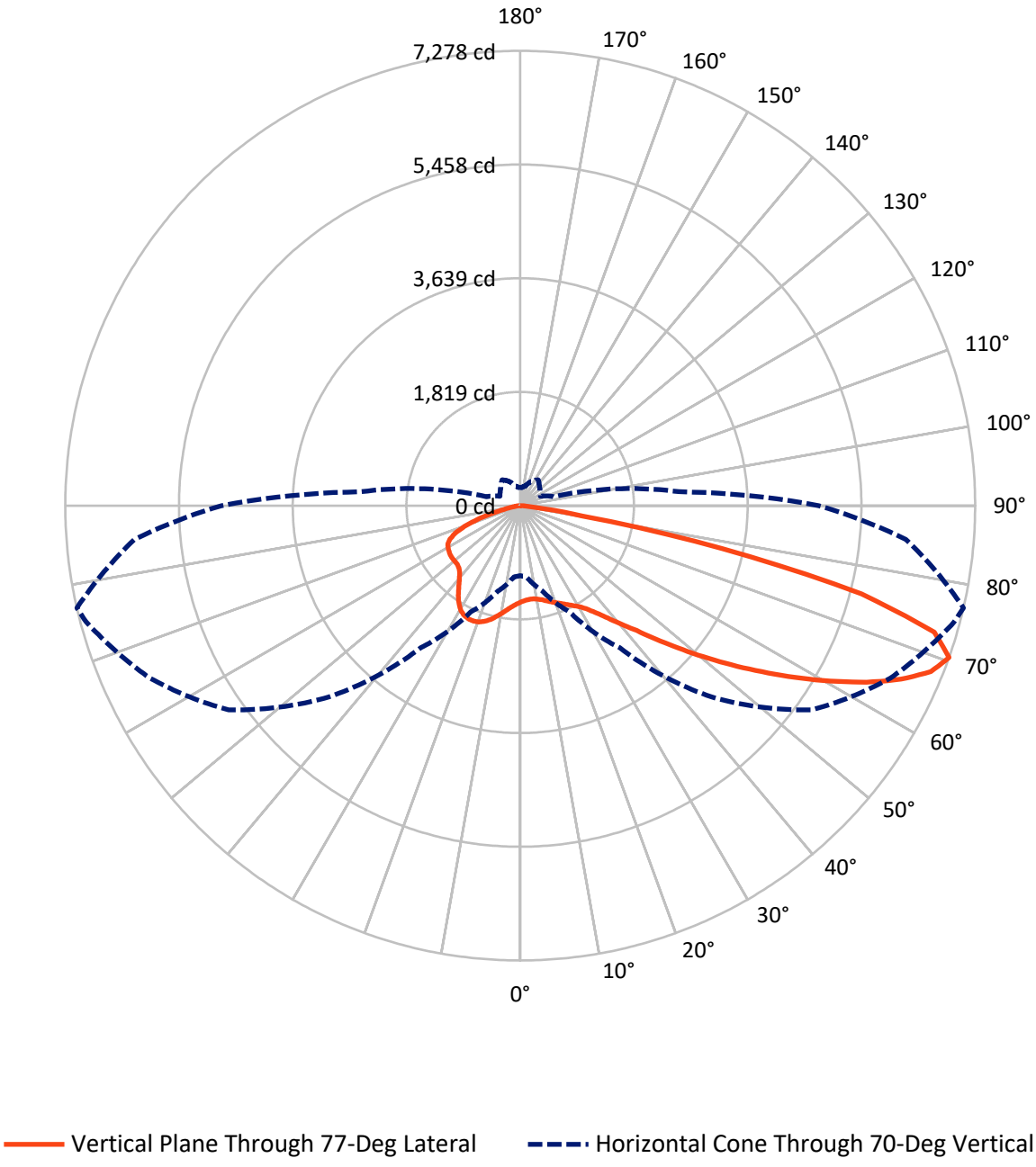
Luminous Intensity Polar Plot



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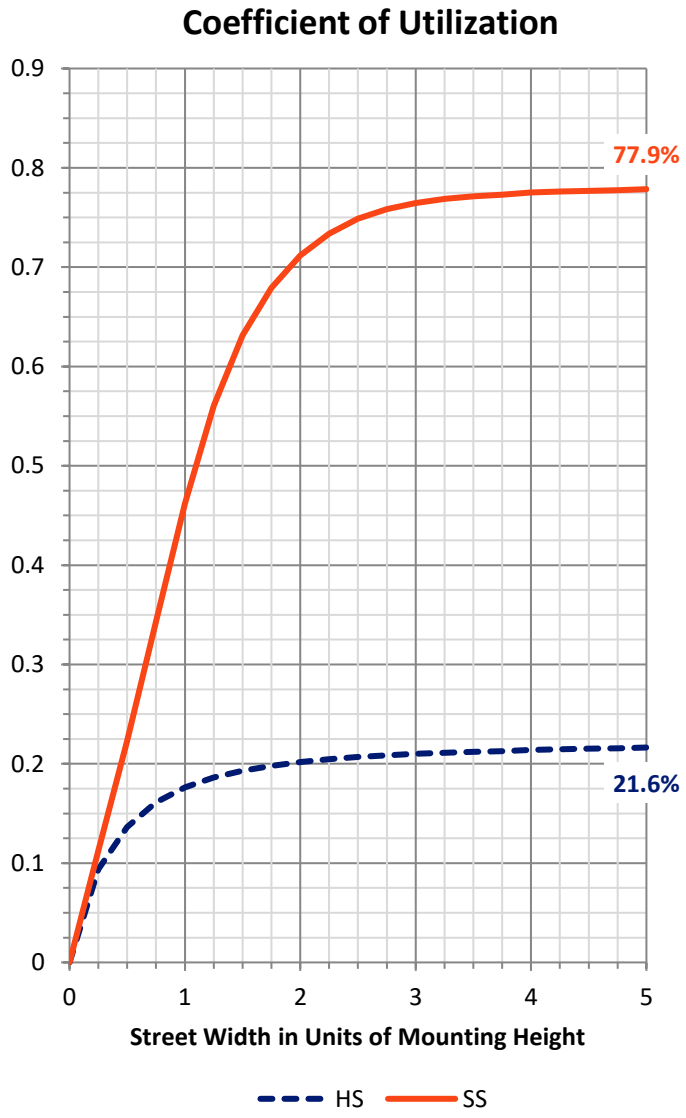
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2421.5	0.0	2421.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8636.5	0.0	8636.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	11058.0	0.0	11058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.3
10°-20°	424.6	3.8
20°-30°	726.2	6.6
30°-40°	1167.8	10.6
40°-50°	1823.2	16.5
50°-60°	2435.4	22.0
60°-70°	2595.7	23.5
70°-80°	1597.9	14.5
80°-90°	140.0	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°	11058.0	100.0
0°-180°	11058.0	100.0



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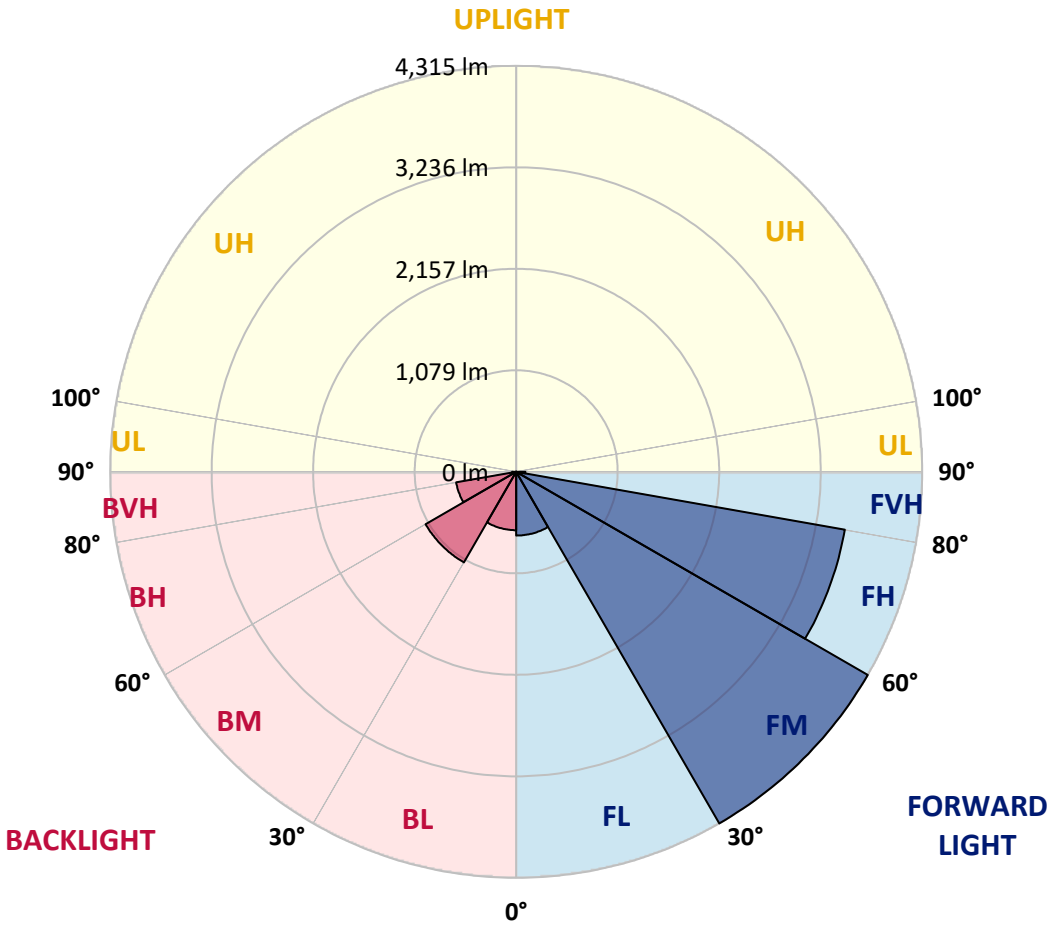
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	677.5	6.1			
FM	(30°-60°)	4314.6	39.0			
FH	(60°-80°)	3546.5	32.1			G2/5000
FVH	(80°-90°)	97.9	0.9			G1/100
BL	(0°-30°)	620.5	5.6	B2/1000		
BM	(30°-60°)	1111.8	10.1	B2/2500		
BH	(60°-80°)	647.2	5.9	B2/1000		G2/1000
BVH	(80°-90°)	42.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	*1542.7*
2.5°	1422.1	1421.5	1428.9	1431.1	1444.7	1454.3	1472.5	1491.7	1516.6	*1519.5*
5°	1339.9	1339.9	1348.4	1357.5	1375.1	1394.3	1422.1	1455.5	1498.5	*1505.3*
7.5°	1270.3	1274.8	1282.2	1299.7	1320.1	1347.9	1390.3	1437.9	1494.6	*1505.3*
10°	1214.2	1219.3	1228.4	1242.5	1273.1	1311.6	1367.1	1428.3	1504.2	*1521.2*
12.5°	1196.7	1201.8	1206.9	1217.6	1245.9	1291.2	1357.5	1432.8	1527.4	*1544.4*
15°	1237.4	1243.7	1239.7	1236.9	1251.6	1292.9	1362.0	1449.2	1556.3	*1580.6*
17.5°	1331.4	1333.7	1324.7	1298.0	1295.8	1317.9	1383.6	1471.9	1592.5	*1619.1*
20°	1483.2	1479.3	1460.6	1407.9	1377.9	1373.4	1420.4	1505.9	1629.9	*1658.2*
22.5°	1689.4	1684.8	1647.5	1564.2	1497.4	1453.2	1473.6	1550.1	1671.8	*1703.5*
25°	1946.5	1940.3	1885.3	1772.1	1668.4	1559.1	1546.1	1608.4	1723.4	*1752.8*
27.5°	2246.6	2241.5	2182.1	2032.6	1883.1	1704.1	1636.1	1676.9	1777.2	*1810.6*
30°	2569.5	2584.2	2478.8	2318.0	2128.8	1893.3	1757.3	1761.3	1846.8	*1876.8*
32.5°	2948.9	2974.4	2847.5	2643.6	2385.4	2098.8	1910.2	1879.1	1948.2	*1973.1*
35°	3324.9	3353.8	3248.5	3023.1	2725.8	2341.2	2069.9	2014.4	2083.0	*2110.2*
37.5°	3650.0	3688.5	3634.2	3438.2	3089.9	2633.4	2278.4	2173.6	2248.9	*2282.9*
40°	3906.6	3965.5	3961.5	3839.2	3519.2	2988.0	2542.8	2370.1	2455.1	*2491.9*
42.5°	4115.0	4165.9	4210.1	4203.9	3967.2	3390.6	2853.8	2625.5	2690.1	*2732.6*
45°	4258.8	4313.2	4408.3	4510.8	4398.1	3821.6	3210.0	2928.5	2987.4	*3051.4*
47.5°	4387.4	4449.1	4572.6	4735.1	4764.0	4254.3	3600.2	3281.3	3335.1	*3401.4*
50°	4398.7	4451.9	4643.4	4873.9	5023.9	4670.0	4019.3	3677.2	3727.6	*3798.4*
52.5°	4125.2	4209.0	4543.1	4869.9	5143.4	5017.7	4435.5	4088.9	4145.6	*4230.5*
55°	3202.0	3324.9	4249.2	4718.1	5101.0	5242.5	4831.4	4526.7	4599.2	*4688.1*
57.5°	2758.0	2811.8	3373.1	4441.8	4907.3	5300.9	5165.5	4969.0	5085.7	*5183.1*
60°	2478.8	2523.6	2855.5	4011.9	4652.4	5208.6	5423.8	5381.3	5582.9	*5699.0*
62.5°	2179.8	2222.3	2524.1	3349.9	4326.2	5055.1	5586.9	5761.9	6092.6	*6219.5*
65°	1883.1	1919.3	2208.7	2814.7	3911.7	4901.6	5671.3	6090.9	6564.4	*6695.8*
67.5°	1552.3	1582.3	1855.9	2374.6	3407.6	4691.5	5713.2	6349.7	6975.0	*7087.7*
70°	*1120.2*	*1143.4*	*1426.0*	*1878.0*	*2775.0*	*4330.2*	*5696.2*	*6533.2*	*7187.9*	*7277.9*
72.5°	529.5	550.5	882.3	1219.3	1960.1	3626.8	5352.4	6387.7	6971.6	*6926.8*
75°	282.6	300.7	506.9	668.8	1035.3	2486.2	4380.0	5502.5	5854.2	*5636.7*
77.5°	191.4	205.6	313.7	401.5	472.9	1180.2	2815.2	3809.7	3665.3	*3306.3*
80°	151.8	166.5	257.1	271.8	228.8	426.4	1163.2	1763.6	1266.9	*1013.2*
82.5°	116.7	133.1	216.3	197.1	124.6	175.0	338.7	557.8	324.5	*246.9*
85°	71.4	88.9	169.9	125.7	70.2	79.9	115.0	155.2	99.1	*82.7*
87.5°	36.2	51.0	86.1	45.9	31.7	18.7	30.6	30.6	26.1	*22.7*
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°
1542.7	0°	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7	1542.7
1534.8	2.5°	1548.4	1559.7	1578.9	1597.1	1611.2	1624.8	1638.4	1645.8	1648.0	1657.1
1543.3	5°	1566.5	1587.4	1624.8	1659.9	1682.0	1695.6	1705.2	1710.9	1712.0	1714.9
1566.5	7.5°	1599.9	1633.3	1685.4	1720.5	1736.9	1735.8	1731.8	1717.7	1712.0	1706.9
1600.5	10°	1646.9	1691.1	1755.1	1779.4	1769.2	1742.0	1706.9	1665.6	1646.3	1627.6
1646.9	12.5°	1705.2	1761.3	1824.2	1823.0	1772.6	1703.0	1621.4	1558.0	1517.8	1488.9
1704.1	15°	1776.0	1840.6	1888.7	1850.2	1739.8	1614.6	1495.1	1412.4	1376.2	1344.5
1761.9	17.5°	1849.1	1918.2	1940.3	1841.7	1657.1	1483.8	1348.4	1283.3	1247.6	1230.6
1824.2	20°	1920.4	1989.0	1970.8	1793.0	1531.4	1335.4	1214.8	1179.1	1171.7	1175.7
1884.8	22.5°	1995.8	2056.9	1977.1	1699.0	1371.1	1183.6	1117.4	1118.5	1134.9	1146.8
1948.2	25°	2072.8	2114.1	1960.6	1563.1	1198.9	1072.1	1055.6	1073.8	1106.0	1129.3
2019.5	27.5°	2147.0	2165.1	1925.0	1394.9	1051.1	992.2	995.0	1032.4	1081.1	1113.4
2106.2	30°	2230.8	2210.4	1856.4	1205.7	948.6	923.7	947.5	991.1	1039.8	1068.7
2215.5	32.5°	2325.4	2249.5	1747.7	1030.7	876.1	868.8	907.8	936.1	957.7	966.2
2360.5	35°	2443.2	2304.4	1608.4	907.8	811.0	828.5	865.9	851.8	843.3	838.7
2555.3	37.5°	2596.1	2378.6	1445.3	828.0	758.3	799.7	815.0	770.8	737.4	720.9
2791.5	40°	2780.1	2487.3	1288.4	766.2	724.9	774.7	748.1	694.9	652.4	629.2
3057.1	42.5°	2984.6	2601.2	1156.5	719.8	706.2	754.4	698.9	635.4	566.9	559.5
3373.6	45°	3199.2	2718.4	1066.4	684.1	697.2	736.8	670.5	568.0	519.3	549.3
3691.4	47.5°	3413.9	2826.0	1012.0	657.5	692.6	717.0	645.6	530.7	496.1	539.7
4031.7	50°	3652.8	2922.3	987.7	638.3	687.5	709.0	608.2	521.0	471.8	500.6
4384.0	52.5°	3890.1	2997.0	969.6	619.0	680.2	702.8	590.1	509.7	442.3	444.0
4738.5	55°	4126.9	3045.7	949.7	593.5	663.7	689.2	588.4	497.2	420.2	412.3
5113.4	57.5°	4379.5	3073.5	925.4	565.2	635.4	654.7	586.7	487.6	413.4	400.4
5496.8	60°	4636.6	3114.3	893.7	530.7	597.5	613.3	582.8	484.2	409.5	387.4
5858.2	62.5°	4867.1	3128.4	855.7	497.8	548.8	572.6	574.3	481.4	398.7	360.8
6158.3	65°	5018.3	3067.3	789.5	460.4	496.1	530.7	557.8	471.8	379.4	341.5
6306.7	67.5°	5012.0	2892.8	685.8	412.3	445.1	484.2	534.1	455.3	356.2	317.7
6194.6	70°	*4778.7*	*2548.5*	*554.4*	*356.2*	*389.1*	*434.4*	*503.5*	*431.0*	*328.5*	*291.7*
5508.2	72.5°	4098.6	1994.6	402.7	290.5	323.9	382.8	463.8	401.5	300.2	268.4
4070.8	75°	2927.9	1262.4	273.0	223.1	252.0	324.5	414.6	367.0	274.1	269.6
2038.8	77.5°	1495.7	603.1	180.7	163.1	175.6	256.0	348.3	327.9	278.1	222.6
579.9	80°	486.5	222.6	113.8	111.0	116.7	170.5	269.6	269.0	210.7	151.2
140.5	82.5°	155.2	95.7	74.2	71.4	68.5	107.0	188.0	212.9	142.1	95.7
50.4	85°	61.7	57.2	43.6	40.2	28.9	50.4	98.5	141.6	105.9	69.1
13.0	87.5°	22.7	22.7	11.9	8.5	6.2	17.0	26.6	42.5	60.6	35.7
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°
1542.7
1662.2
1719.4
1708.1
1622.0
1482.1
1341.1
1235.7
1174.0
1149.7
1135.5
1121.3
1075.5
970.7
843.3
724.9
630.9
566.9
565.2
560.1
522.2
455.9
418.0
402.1
389.1
360.8
341.5
319.4
295.1
266.7
254.3
198.2
133.7
95.1
70.8
35.1
0.0

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