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: P945623

Luminaire Tested: **GALN-SB1C-735-U-T2U**

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:	P945623
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1C-735-U-T2U
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7592 lumens
Efficiency:	N/A
Efficacy:	139.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2
Input Watts (W):	54.4
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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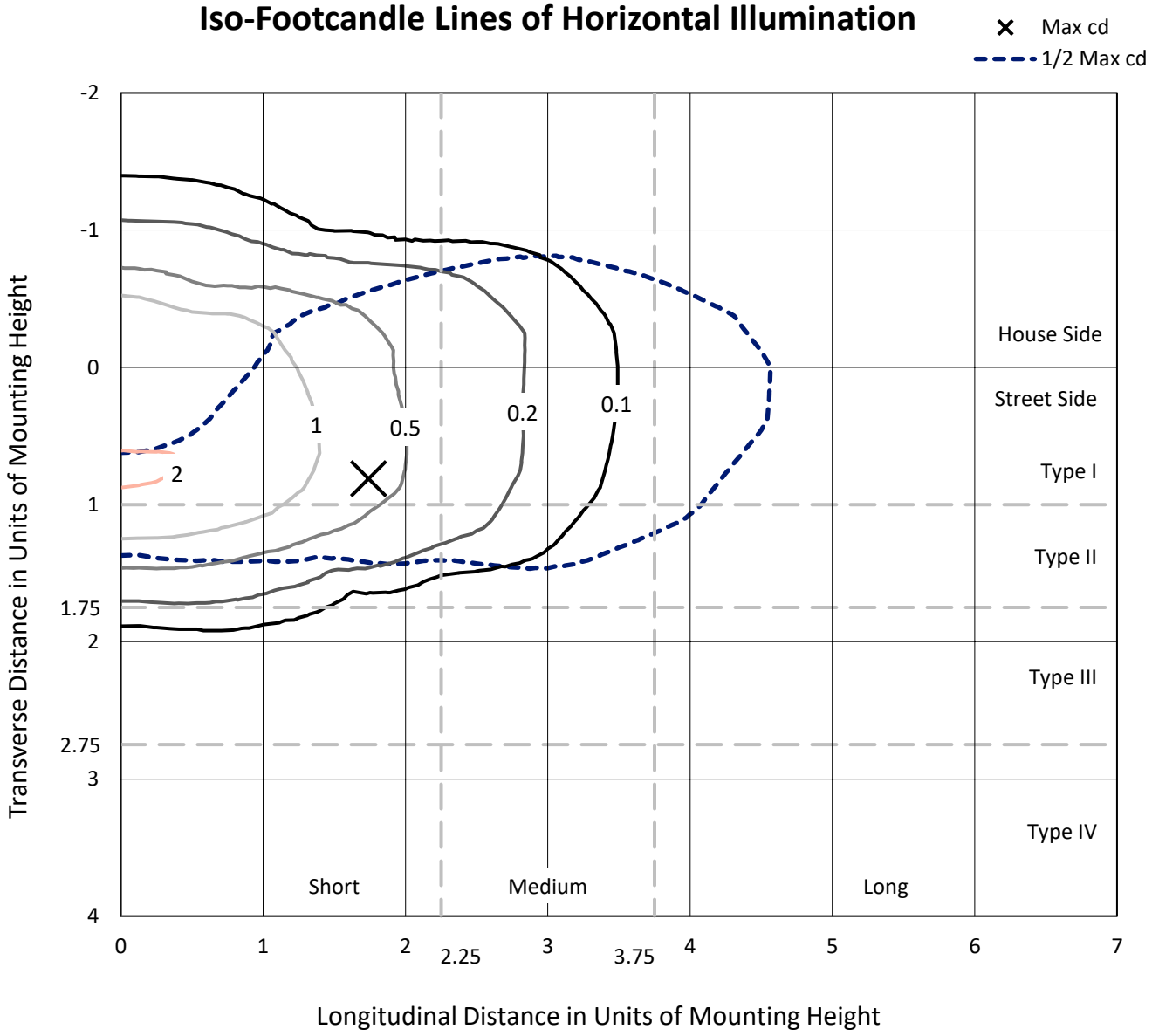
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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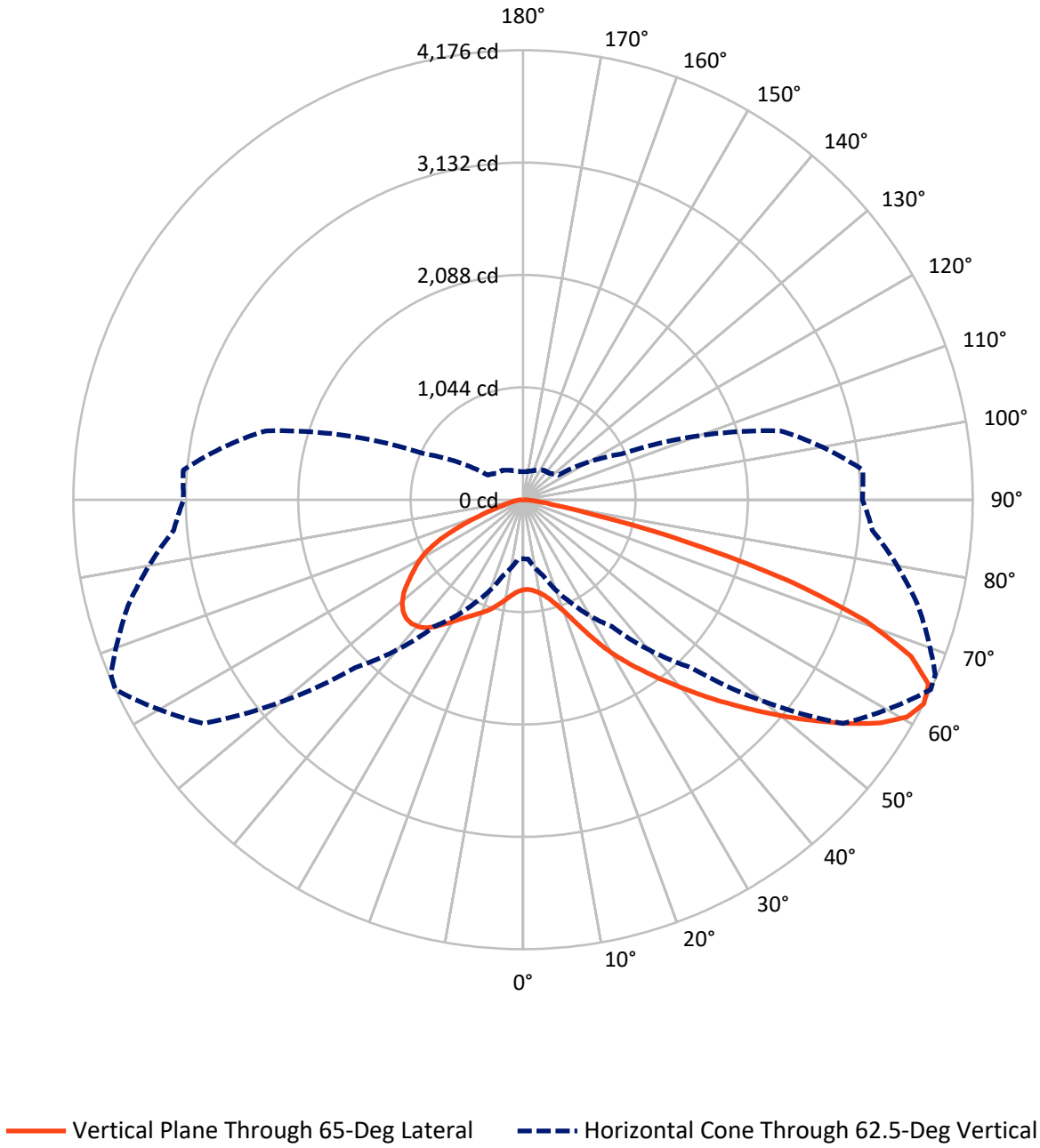
Luminous Intensity Polar Plot



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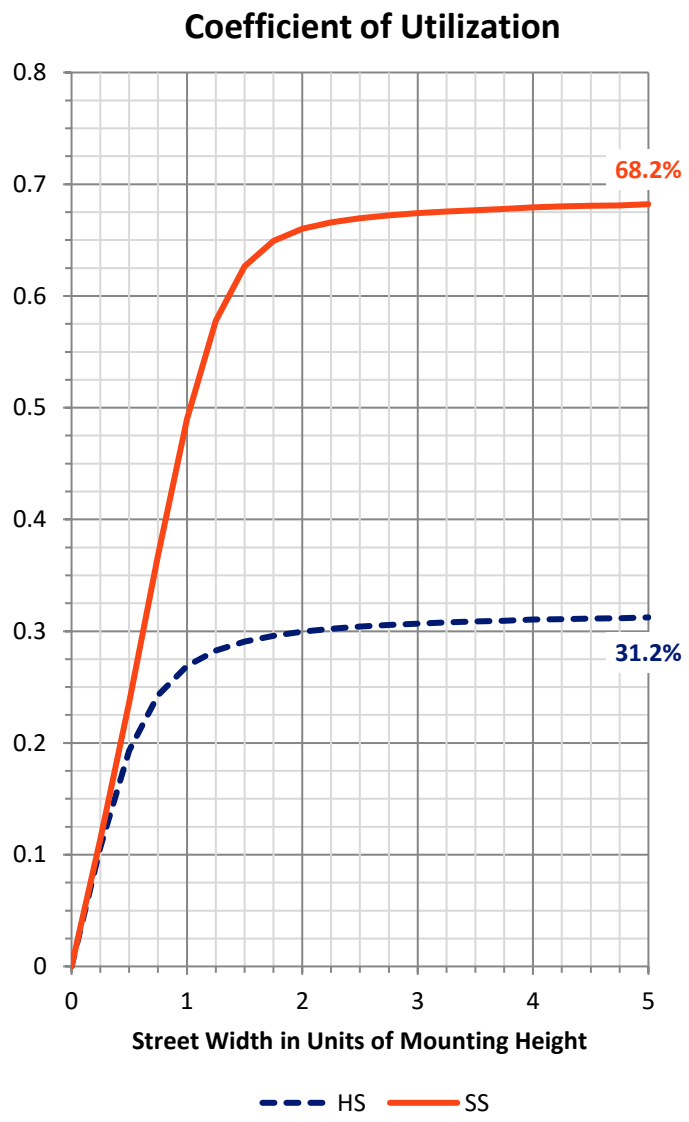
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.7	0.0	2395.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5196.3	0.0	5196.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	7592.0	0.0	7592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	1.1
10°-20°	282.8	3.7
20°-30°	573.5	7.6
30°-40°	992.4	13.1
40°-50°	1501.9	19.8
50°-60°	1760.8	23.2
60°-70°	1476.2	19.4
70°-80°	815.0	10.7
80°-90°	105.9	1.4
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°	7592.0	100.0
0°-180°	7592.0	100.0



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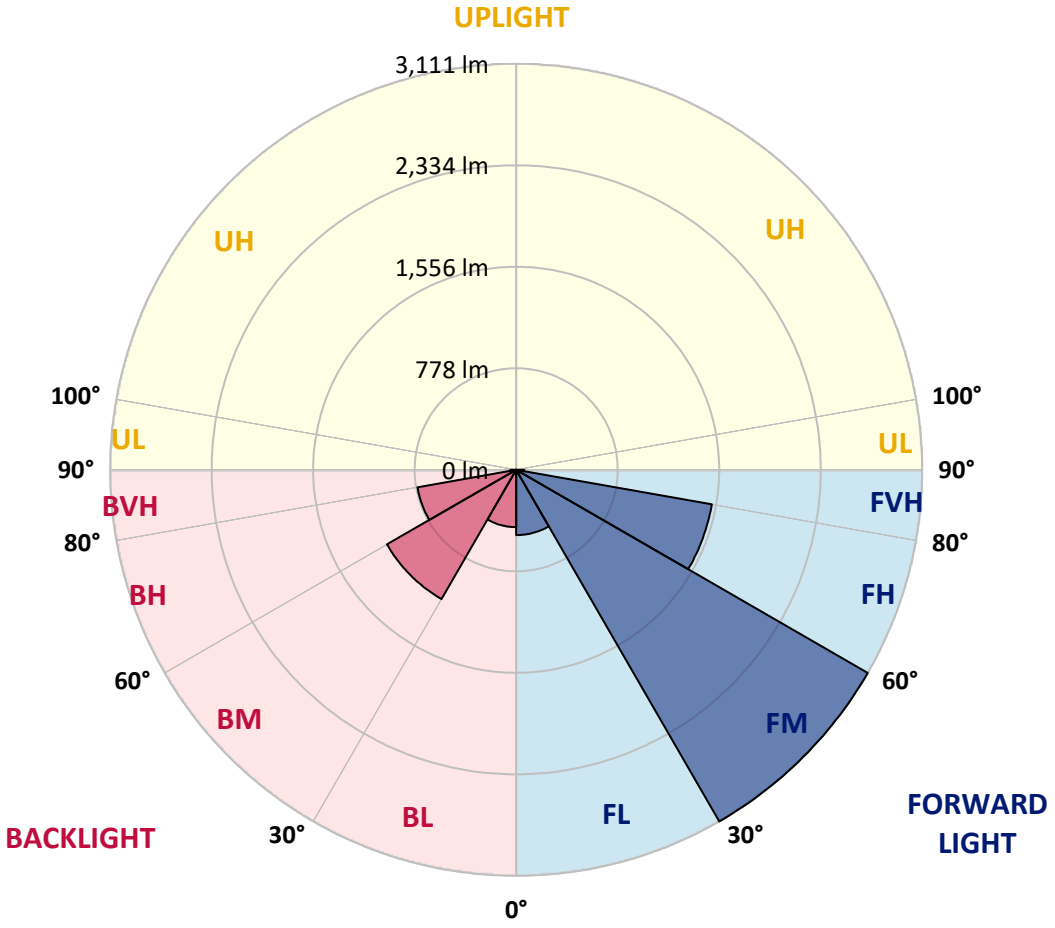
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	500.4	6.6			
FM	(30°-60°)	3111.5	41.0			
FH	(60°-80°)	1522.7	20.1			G1/1800
FVH	(80°-90°)	61.7	0.8			G1/100
BL	(0°-30°)	439.3	5.8	B1/500		
BM	(30°-60°)	1143.7	15.1	B2/2500		
BH	(60°-80°)	768.5	10.1	B2/1000		G2/1000
BVH	(80°-90°)	44.2	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	*836.6*	836.6	836.6
2.5°	831.1	828.7	830.7	830.7	831.5	831.1	833.8	*834.6*	835.8	838.2
5°	822.8	822.4	826.0	829.1	832.3	835.0	838.6	*843.7*	844.5	847.2
7.5°	820.1	817.7	823.2	827.2	834.6	841.3	850.8	*859.5*	863.0	864.2
10°	841.3	837.4	842.5	844.9	851.2	857.9	868.9	*882.7*	886.6	891.4
12.5°	877.6	873.2	880.7	884.3	890.2	896.1	903.6	*917.0*	918.9	927.6
15°	927.2	922.1	926.8	931.1	941.0	946.5	954.0	*967.0*	967.0	973.7
17.5°	994.6	987.9	991.4	993.0	999.3	1007.6	1020.2	*1031.6*	1037.5	1035.1
20°	1095.0	1086.7	1086.7	1078.8	1076.5	1083.2	1099.7	*1115.5*	1121.8	1109.6
22.5°	1245.8	1234.0	1227.3	1200.6	1189.9	1190.7	1207.2	*1226.5*	1231.7	1210.0
25°	1437.7	1419.2	1410.1	1370.7	1346.7	1325.8	1338.8	*1363.6*	1370.7	1343.9
27.5°	1629.5	1630.7	1622.0	1574.7	1535.0	1496.8	1490.1	*1516.1*	1523.5	1493.2
30°	1898.5	1870.5	1854.0	1797.3	1740.6	1687.0	1659.4	*1670.1*	1672.0	1635.8
32.5°	2130.5	2123.4	2088.0	2038.3	1965.5	1881.6	1835.5	*1818.6*	1815.4	1763.8
35°	2394.8	2390.9	2353.4	2294.4	2215.6	2099.0	2015.9	*1967.4*	1963.5	1891.0
37.5°	2663.4	2663.4	2626.8	2562.2	2480.7	2334.9	2208.5	*2131.7*	2119.1	2024.6
40°	2877.7	2864.7	2871.4	2844.2	2750.9	2596.1	2422.4	*2310.9*	2294.0	2180.5
42.5°	2999.4	2995.1	3035.3	3065.6	3027.4	2903.7	2657.9	*2505.1*	2481.5	2352.3
45°	3026.6	3021.9	3093.5	3204.6	3258.2	3207.4	2913.9	*2709.5*	2680.8	2531.9
47.5°	2964.0	2954.5	3059.7	3235.0	3406.7	3496.1	3191.2	*2931.3*	2889.5	2706.8
50°	2775.7	2766.6	2925.8	3158.5	3456.7	3692.3	3492.2	*3166.4*	3102.6	2894.2
52.5°	2366.4	2370.8	2620.1	2939.9	3390.9	3814.4	3751.3	*3414.2*	3337.4	3086.1
55°	1843.4	1852.8	2159.3	2511.4	3127.8	3795.8	3928.2	*3669.4*	3593.0	3266.5
57.5°	1319.9	1361.7	1648.8	1997.4	2622.5	3502.4	3966.8	*3912.0*	3838.0	3463.4
60°	855.5	863.0	1158.4	1509.7	1997.0	2980.9	3888.4	*4096.0*	4038.1	3664.3
62.5°	*548.3*	*553.4*	*733.4*	*1056.0*	*1437.3*	*2205.3*	*3624.5*	*4175.9*	*4158.2*	*3797.0*
65°	402.9	399.0	492.7	698.0	968.2	1360.1	3112.1	*4137.3*	4172.4	3880.1
67.5°	336.4	330.9	376.9	483.3	713.3	772.4	2302.6	*3886.4*	4014.8	3870.7
70°	306.4	301.7	329.7	358.8	556.6	517.2	1160.8	*3378.7*	3576.4	3763.1
72.5°	259.6	251.3	289.5	318.7	432.9	396.6	479.7	*2595.3*	2836.3	3418.5
75°	201.3	195.8	228.5	280.4	325.3	309.6	303.3	*1575.9*	1839.0	2643.7
77.5°	159.5	152.0	182.0	218.6	292.7	233.6	221.0	*678.7*	939.4	1687.8
80°	120.1	113.4	138.3	172.9	224.9	176.1	143.0	*276.9*	354.1	855.1
82.5°	85.5	79.6	96.5	126.8	151.3	157.9	87.8	*155.2*	174.5	329.7
85°	54.7	51.2	64.6	79.6	96.1	101.6	53.6	*81.1*	89.0	135.9
87.5°	29.9	24.4	34.7	37.0	44.5	40.6	25.6	*29.5*	31.9	49.2
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°
836.6	0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
838.2	2.5°	839.8	840.9	844.9	846.1	848.8	852.4	854.7	857.1	857.1	859.5
850.8	5°	851.2	853.9	862.2	866.5	873.6	880.7	885.1	890.2	893.3	894.9
870.9	7.5°	873.2	877.6	889.4	896.9	909.1	918.9	925.6	932.7	934.3	938.6
898.8	10°	903.2	908.3	921.7	935.9	950.4	962.6	968.9	974.1	976.0	976.8
934.7	12.5°	937.4	944.9	962.3	979.6	994.9	1005.6	1007.2	1006.0	1000.5	995.7
978.8	15°	979.6	986.3	1005.6	1024.5	1039.5	1041.4	1031.6	1025.3	1018.6	1017.4
1028.0	17.5°	1030.0	1033.5	1051.3	1069.8	1071.0	1064.3	1049.7	1043.8	1037.5	1033.2
1092.2	20°	1088.7	1087.5	1100.1	1108.0	1099.7	1079.2	1057.2	1047.3	1041.0	1035.9
1171.0	22.5°	1158.8	1149.7	1148.2	1146.2	1124.1	1081.2	1051.3	1038.7	1028.8	1021.7
1280.9	25°	1260.8	1226.2	1202.1	1188.7	1139.1	1070.6	1032.4	1004.4	985.9	973.7
1415.2	27.5°	1388.4	1330.1	1269.5	1236.8	1139.1	1048.9	986.7	941.4	911.0	898.4
1545.2	30°	1510.1	1449.1	1359.7	1294.7	1136.3	1013.5	913.0	850.0	814.5	801.9
1656.3	32.5°	1614.1	1547.6	1455.4	1358.1	1129.7	956.0	821.6	751.9	717.7	702.7
1766.2	35°	1710.6	1639.7	1551.5	1427.8	1111.9	871.7	721.2	668.0	629.8	605.8
1878.0	37.5°	1809.5	1725.2	1642.5	1490.8	1080.0	773.2	644.0	598.7	553.8	521.5
1997.0	40°	1917.0	1816.2	1739.8	1528.3	1027.6	679.4	584.1	542.8	495.1	460.8
2134.1	42.5°	2042.7	1925.3	1848.1	1547.6	956.0	612.9	545.1	504.6	459.7	431.7
2281.0	45°	2173.8	2045.4	1947.0	1547.2	876.0	581.8	532.5	492.4	442.7	413.6
2431.8	47.5°	2311.3	2171.1	2032.4	1522.0	806.7	586.1	525.4	466.0	411.2	382.9
2584.3	50°	2449.2	2308.5	2115.1	1474.7	777.1	576.6	499.0	428.9	364.3	338.7
2727.2	52.5°	2585.8	2454.7	2186.4	1407.3	747.2	541.6	465.2	380.9	345.0	327.3
2874.9	55°	2723.3	2599.2	2264.0	1309.3	672.4	500.6	408.5	362.8	329.7	313.5
3019.5	57.5°	2861.2	2766.2	2337.7	1211.2	578.2	450.2	377.3	340.7	314.3	300.5
3140.4	60°	3004.5	2957.3	2413.7	1121.0	485.3	385.6	354.5	323.0	296.2	280.8
3256.6	62.5°	*3152.2*	*3167.6*	*2473.2*	*1004.8*	*399.8*	*346.2*	*334.0*	*301.7*	*275.7*	*261.1*
3352.7	65°	3301.1	3370.4	2512.2	843.7	324.2	308.8	312.0	278.5	252.1	239.5
3423.2	67.5°	3413.4	3516.6	2501.2	638.5	265.9	273.4	284.4	254.1	229.2	219.4
3411.8	70°	3426.0	3499.2	2392.4	437.2	222.5	238.7	253.7	230.0	204.4	197.3
3251.1	72.5°	3258.2	3262.9	2089.5	285.6	188.3	209.5	221.4	205.6	180.8	173.7
2844.2	75°	2818.2	2698.5	1534.2	188.3	157.6	180.0	191.0	180.0	156.0	157.6
2128.1	77.5°	2135.2	1911.1	931.5	133.9	131.6	151.3	166.2	158.3	137.9	154.8
1070.2	80°	1100.1	1033.9	415.5	100.0	104.0	120.9	136.7	126.4	109.1	104.0
239.1	82.5°	252.1	293.0	163.9	71.7	75.2	87.0	104.4	94.9	78.4	66.2
99.7	85°	88.2	96.5	72.5	44.9	44.1	54.4	70.9	63.4	53.2	42.5
42.1	87.5°	28.0	36.6	27.2	18.1	18.9	24.4	32.7	29.9	24.8	16.1
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°
836.6
859.5
895.7
937.0
974.9
995.7
1017.4
1033.5
1036.3
1024.1
978.4
904.7
809.4
710.2
613.7
530.2
467.5
437.2
418.3
386.8
340.3
327.3
312.0
298.2
279.7
260.7
239.1
219.8
197.7
173.3
152.0
136.3
94.9
65.4
44.9
16.9
0.0

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