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: P938997

Luminaire Tested: **GALN-SB1B-850-U-T3**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P938997
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1B-850-U-T3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5392 lumens
Efficiency:	N/A
Efficacy:	135.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1
Input Watts (W):	39.8
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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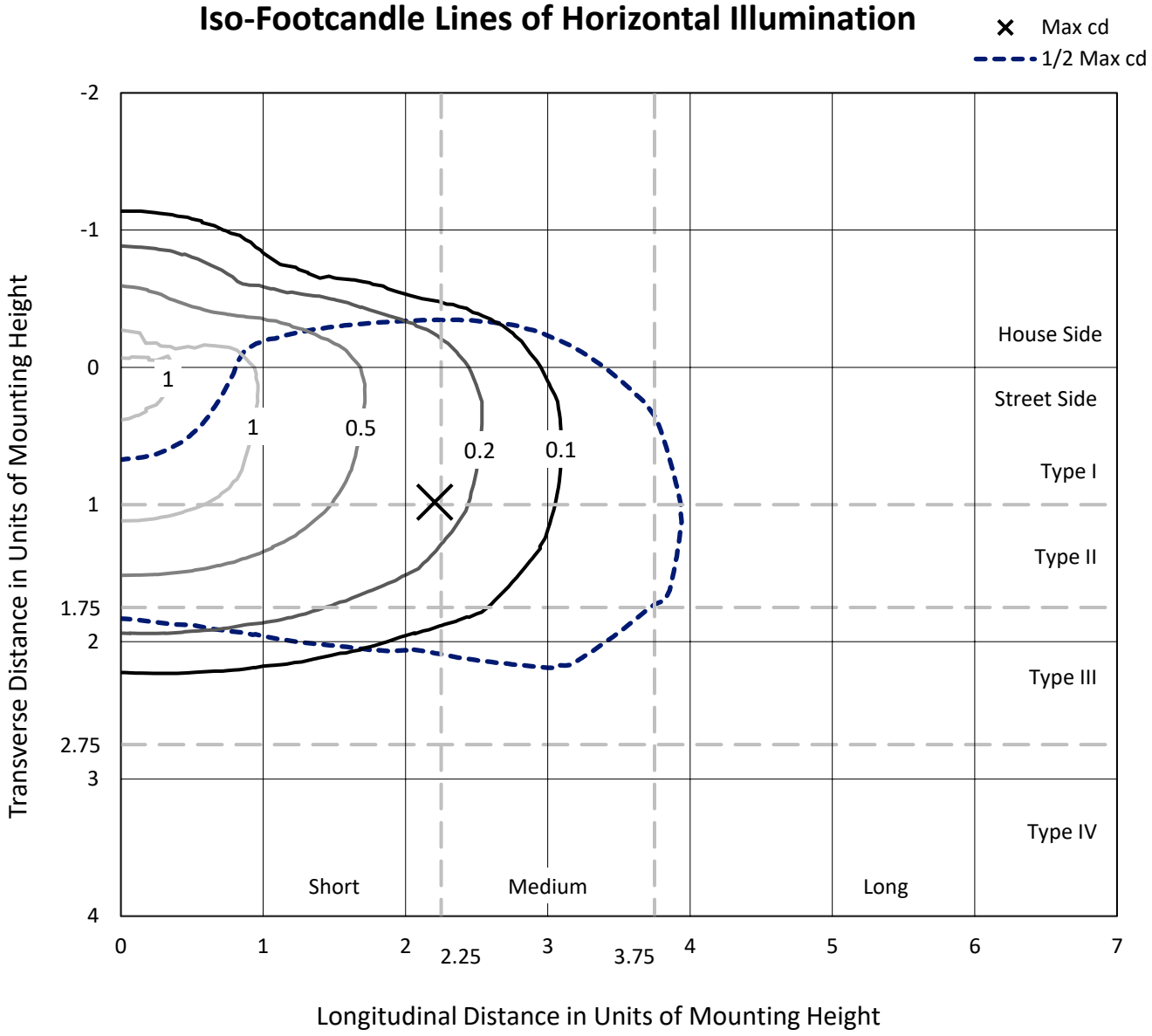
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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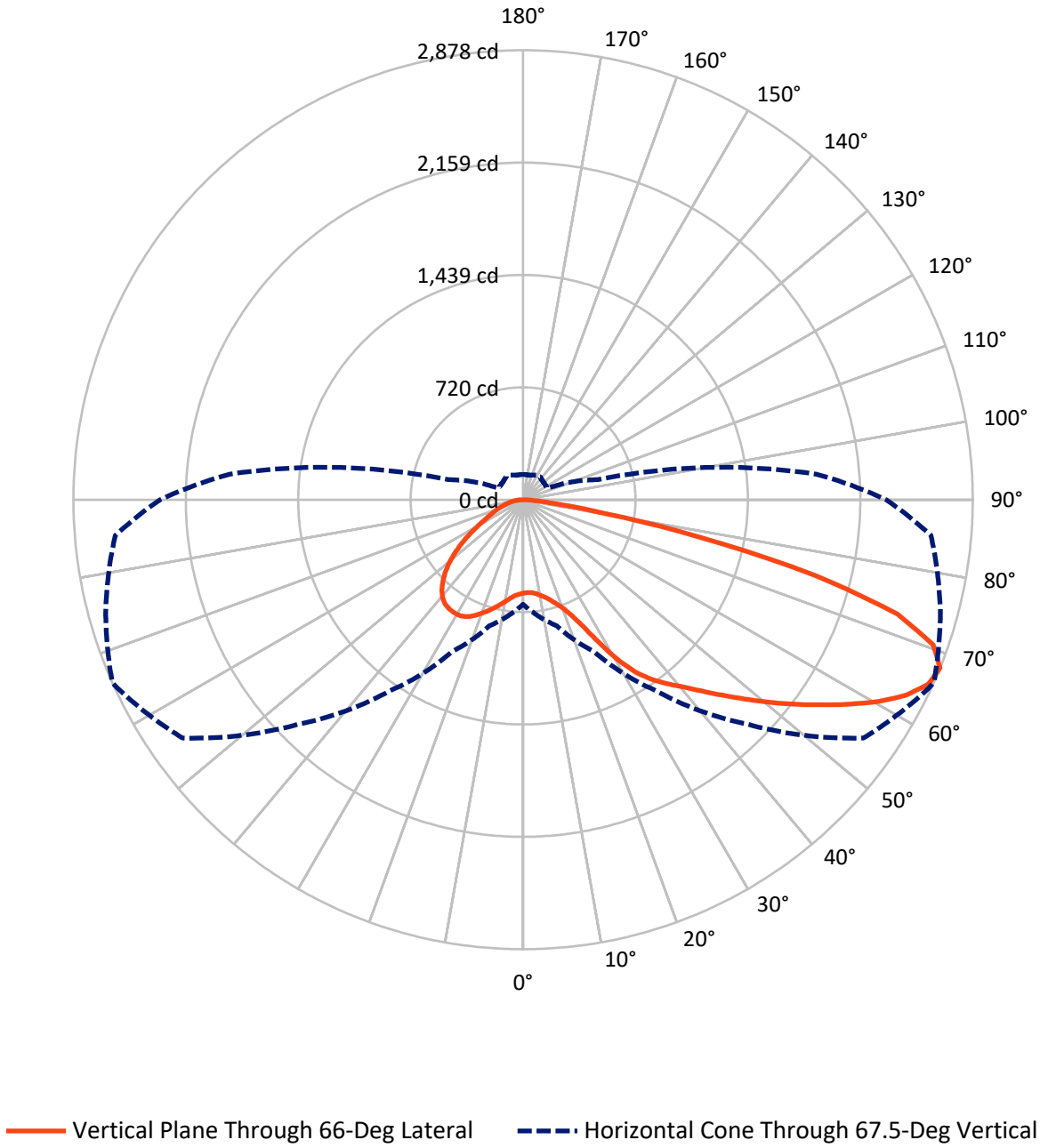
Luminous Intensity Polar Plot



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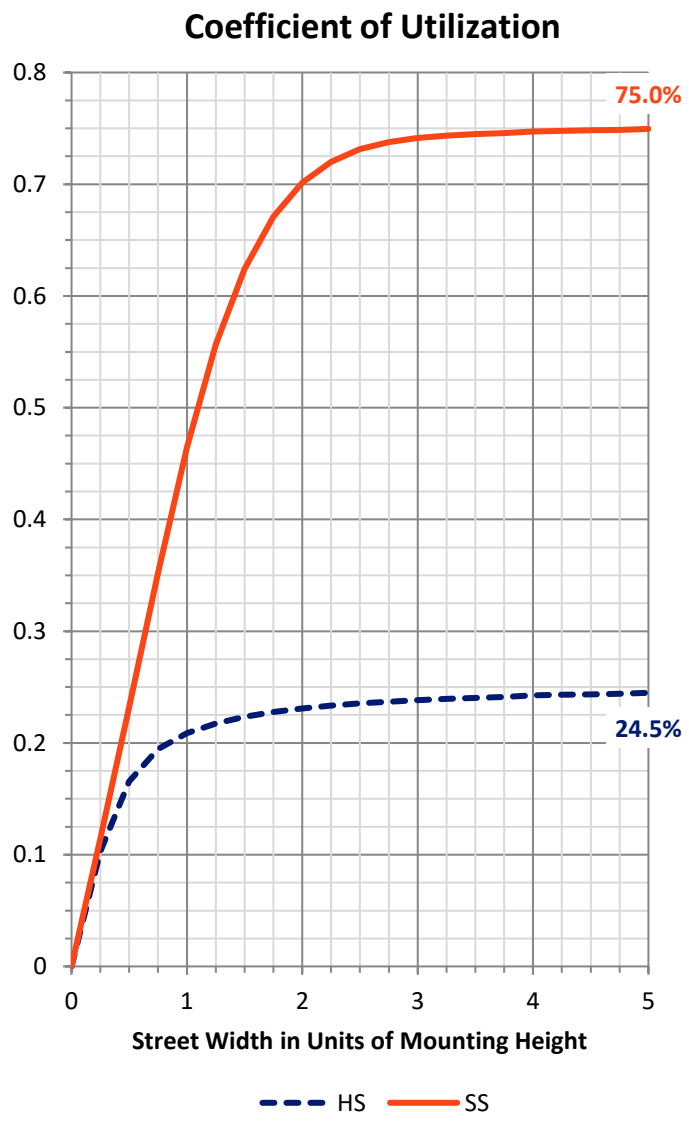
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.7	0.0	1340.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4051.3	0.0	4051.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	5392.0	0.0	5392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.1
10°-20°	195.9	3.6
20°-30°	377.6	7.0
30°-40°	662.0	12.3
40°-50°	984.2	18.3
50°-60°	1247.6	23.1
60°-70°	1220.8	22.6
70°-80°	582.3	10.8
80°-90°	62.2	1.2
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°	5392.0	100.0
0°-180°	5392.0	100.0



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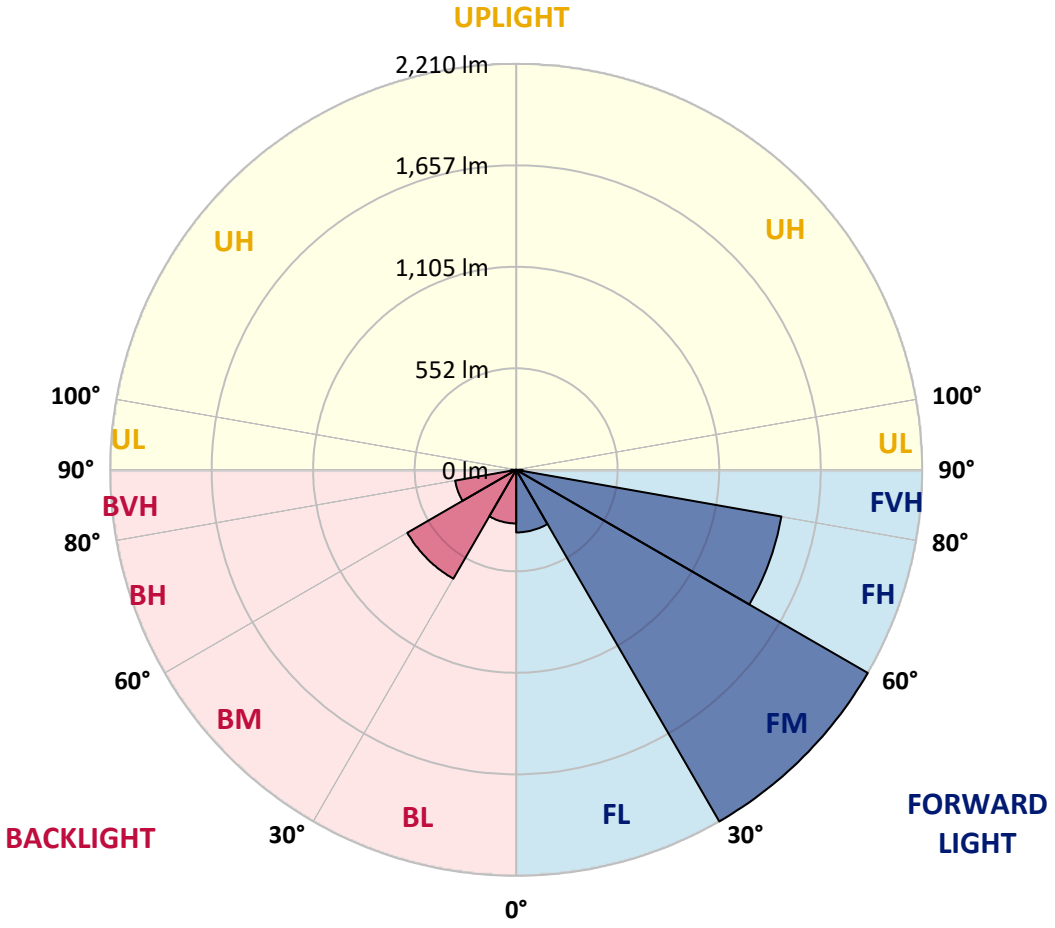
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	340.7	6.3			
FM	(30°-60°)	2209.6	41.0			
FH	(60°-80°)	1465.7	27.2			G1/1800
FVH	(80°-90°)	35.3	0.7			G1/100
BL	(0°-30°)	292.1	5.4	B1/500		
BM	(30°-60°)	684.3	12.7	B1/1000		
BH	(60°-80°)	337.4	6.3	B1/500		G1/500
BVH	(80°-90°)	26.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	*598.0*	598.0
2.5°	591.8	595.2	594.4	592.9	592.7	593.2	594.1	594.9	*594.6*	596.1
5°	590.1	593.5	593.2	593.2	594.4	596.6	598.0	599.5	*598.0*	599.7
7.5°	591.2	593.8	594.9	596.1	598.9	603.1	606.5	609.7	*608.0*	609.9
10°	605.7	607.7	608.8	608.8	610.8	615.6	619.0	624.7	*623.3*	626.4
12.5°	632.0	634.0	634.0	632.9	634.3	637.4	638.6	644.8	*642.2*	647.3
15°	664.3	668.3	665.2	663.2	663.8	666.9	666.6	671.4	*668.9*	673.1
17.5°	700.0	705.1	700.0	699.7	698.6	702.0	702.3	706.5	*702.0*	705.1
20°	742.2	749.3	745.1	746.5	743.9	745.4	746.8	753.0	*745.9*	748.2
22.5°	801.7	810.2	805.7	811.1	809.4	808.3	808.0	819.0	*808.0*	808.8
25°	888.4	898.6	890.7	898.1	898.1	901.7	906.0	920.2	*901.7*	896.4
27.5°	1016.5	1026.7	1011.1	1015.6	1014.2	1023.3	1018.7	1053.9	*1034.0*	1025.3
30°	1170.6	1188.7	1159.3	1158.1	1156.7	1171.2	1177.7	1200.9	*1180.8*	1172.0
32.5°	1337.2	1356.2	1321.0	1310.8	1305.4	1314.2	1308.8	1327.5	*1313.7*	1300.1
35°	1513.4	1532.1	1498.7	1478.8	1457.3	1438.9	1419.6	1424.4	*1411.4*	1390.7
37.5°	1680.0	1714.2	1678.8	1657.6	1617.9	1581.9	1528.1	1505.7	*1493.6*	1474.6
40°	1849.7	1869.2	1842.3	1824.2	1781.1	1724.7	1638.6	1591.3	*1574.9*	1556.4
42.5°	1974.6	1993.3	1978.8	1966.4	1932.7	1867.2	1755.9	1696.7	*1672.9*	1652.2
45°	2073.7	2087.6	2078.6	2083.1	2068.6	2005.2	1877.4	1809.7	*1785.1*	1759.9
47.5°	2113.7	2128.4	2142.9	2169.8	2194.4	2147.7	2008.0	1932.1	*1906.0*	1880.3
50°	2109.2	2124.2	2166.1	2223.3	2299.8	2284.2	2145.7	2062.4	*2038.3*	2008.9
52.5°	2072.9	2089.9	2143.7	2238.9	2360.7	2386.5	2285.9	2197.0	*2174.3*	2139.2
55°	1977.7	1987.9	2068.6	2203.5	2375.2	2457.9	2423.3	2340.3	*2317.7*	2268.7
57.5°	1801.2	1815.9	1933.5	2108.0	2338.9	2506.3	2544.0	2491.0	*2469.2*	2398.7
60°	1570.9	1594.4	1729.0	1947.7	2246.6	2506.1	2653.7	2639.2	*2621.1*	2526.7
62.5°	1310.3	1337.5	1466.9	1721.0	2085.1	2435.0	2722.2	2763.3	*2753.9*	2644.9
65°	1006.3	1025.0	1153.9	1427.8	1833.8	2282.3	2730.2	2848.0	*2849.7*	2734.7
67.5°	*670.0*	*723.8*	*835.7*	*1071.4*	*1497.2*	*2032.7*	*2660.5*	*2861.9*	*2878.3*	*2765.6*
70°	326.9	397.8	507.4	696.3	1071.4	1649.9	2478.3	2748.0	*2784.5*	2675.5
72.5°	135.7	158.6	218.4	343.6	615.0	1113.4	2112.3	2439.2	*2506.9*	2370.6
75°	91.5	99.2	124.9	176.2	280.2	549.0	1523.3	1818.8	*1927.8*	1790.4
77.5°	70.5	75.4	90.9	123.2	166.6	207.7	815.3	1096.1	*1152.5*	1066.9
80°	55.5	59.2	68.0	89.8	118.1	111.1	277.9	496.6	*529.2*	443.9
82.5°	48.2	49.6	48.7	60.9	78.5	64.9	91.2	183.3	*202.3*	146.7
85°	34.8	38.8	40.5	37.7	41.6	32.9	37.4	64.9	*71.4*	63.7
87.5°	14.2	21.0	25.8	24.4	15.3	9.3	11.6	19.0	*21.8*	23.8
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°
598.0	0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
598.3	2.5°	598.6	600.6	602.0	603.7	604.8	606.5	609.9	611.9	612.2	613.6
602.9	5°	604.0	606.8	609.9	614.5	619.6	623.8	630.3	634.9	636.6	638.0
613.9	7.5°	615.6	619.6	625.2	633.2	640.5	646.2	654.1	659.5	664.9	666.9
631.5	10°	632.9	638.6	646.8	657.5	665.5	672.8	681.1	685.6	691.0	693.2
652.4	12.5°	654.4	660.4	671.1	686.2	693.5	698.6	701.4	700.3	701.4	703.4
677.7	15°	679.1	685.6	697.8	713.9	719.0	714.5	708.2	702.6	701.7	702.3
708.2	17.5°	708.2	713.1	727.2	740.8	737.1	718.4	704.8	695.8	691.2	689.8
747.3	20°	749.0	749.0	760.7	769.2	744.5	712.8	691.5	676.8	667.5	663.5
800.6	22.5°	798.6	794.1	801.5	795.5	743.1	696.9	667.5	642.0	627.8	622.1
875.1	25°	861.5	856.1	854.1	817.3	732.9	671.7	623.8	592.9	580.5	577.4
982.5	27.5°	956.4	942.8	917.0	829.2	714.2	632.0	572.8	544.2	537.1	537.4
1120.4	30°	1082.8	1055.6	992.4	831.2	683.6	575.9	520.7	500.3	496.9	498.3
1236.3	32.5°	1199.8	1174.0	1069.5	822.1	636.6	521.0	474.0	460.4	455.3	457.0
1324.7	35°	1291.6	1284.5	1140.8	809.4	578.8	469.4	432.0	420.4	410.5	408.2
1408.0	37.5°	1378.2	1375.4	1194.4	791.5	521.6	432.9	398.3	383.0	368.6	360.6
1500.1	40°	1473.4	1470.6	1229.5	764.1	470.8	401.2	368.0	347.9	330.0	315.6
1604.3	42.5°	1580.5	1563.8	1246.2	724.7	427.8	374.2	343.4	316.2	292.6	279.3
1722.2	45°	1697.5	1659.8	1245.9	674.5	391.5	349.6	317.0	278.5	256.7	244.2
1843.1	47.5°	1821.6	1751.6	1230.7	619.0	356.4	322.4	276.2	246.8	232.3	224.7
1974.6	50°	1949.7	1837.5	1204.6	555.3	320.4	291.5	250.7	230.6	219.6	212.5
2104.9	52.5°	2070.1	1915.4	1173.1	483.0	283.9	261.5	239.4	223.8	212.2	204.3
2231.3	55°	2182.0	1982.5	1128.7	409.1	254.1	241.4	234.0	221.0	207.7	198.3
2359.6	57.5°	2281.4	2026.2	1051.9	339.7	232.9	227.5	228.3	216.2	200.9	192.9
2485.9	60°	2364.1	2058.2	938.3	275.4	215.6	213.9	219.6	207.1	189.2	180.2
2592.8	62.5°	2413.7	2057.6	798.9	225.5	200.9	201.4	207.9	195.8	177.6	169.1
2648.6	65°	2409.5	2007.2	645.9	192.9	186.7	187.3	195.8	183.3	168.0	162.9
2620.5	67.5°	*2324.2*	*1884.2*	*495.5*	*171.7*	*171.1*	*173.7*	*183.6*	*174.8*	*162.0*	*161.5*
2453.4	70°	2093.3	1629.0	357.0	154.7	155.0	158.6	171.7	169.4	158.9	160.1
2062.7	72.5°	1678.5	1242.0	239.7	136.8	137.1	143.1	160.3	165.2	155.8	170.8
1463.5	75°	1117.9	774.5	154.1	117.9	118.1	125.8	150.4	156.9	147.3	170.3
761.5	77.5°	537.1	348.2	111.6	99.2	99.2	106.2	130.0	140.5	125.5	132.3
244.8	80°	185.6	130.9	87.8	79.9	78.2	83.0	109.6	121.8	108.2	99.7
79.9	82.5°	73.1	68.0	70.5	62.0	56.4	59.5	85.3	100.6	79.6	72.0
45.0	85°	41.9	44.2	49.9	41.1	32.6	36.5	62.6	72.2	60.1	53.0
14.7	87.5°	11.3	15.6	22.9	21.2	14.7	15.6	29.7	39.9	34.6	26.6
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°
598.0
613.3
637.7
667.2
694.4
704.0
704.3
691.8
662.6
621.3
577.9
538.3
503.1
459.2
409.9
360.9
317.0
280.2
243.6
223.0
209.9
200.9
194.6
187.8
176.2
166.6
162.6
162.3
159.8
173.1
171.7
121.3
93.5
71.7
54.1
27.5
0.0

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