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: P939141

Luminaire Tested: **GALN-SB1C-835-U-SL4-HSS**

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:	P939141
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1C-835-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4851 lumens
Efficiency:	N/A
Efficacy:	89.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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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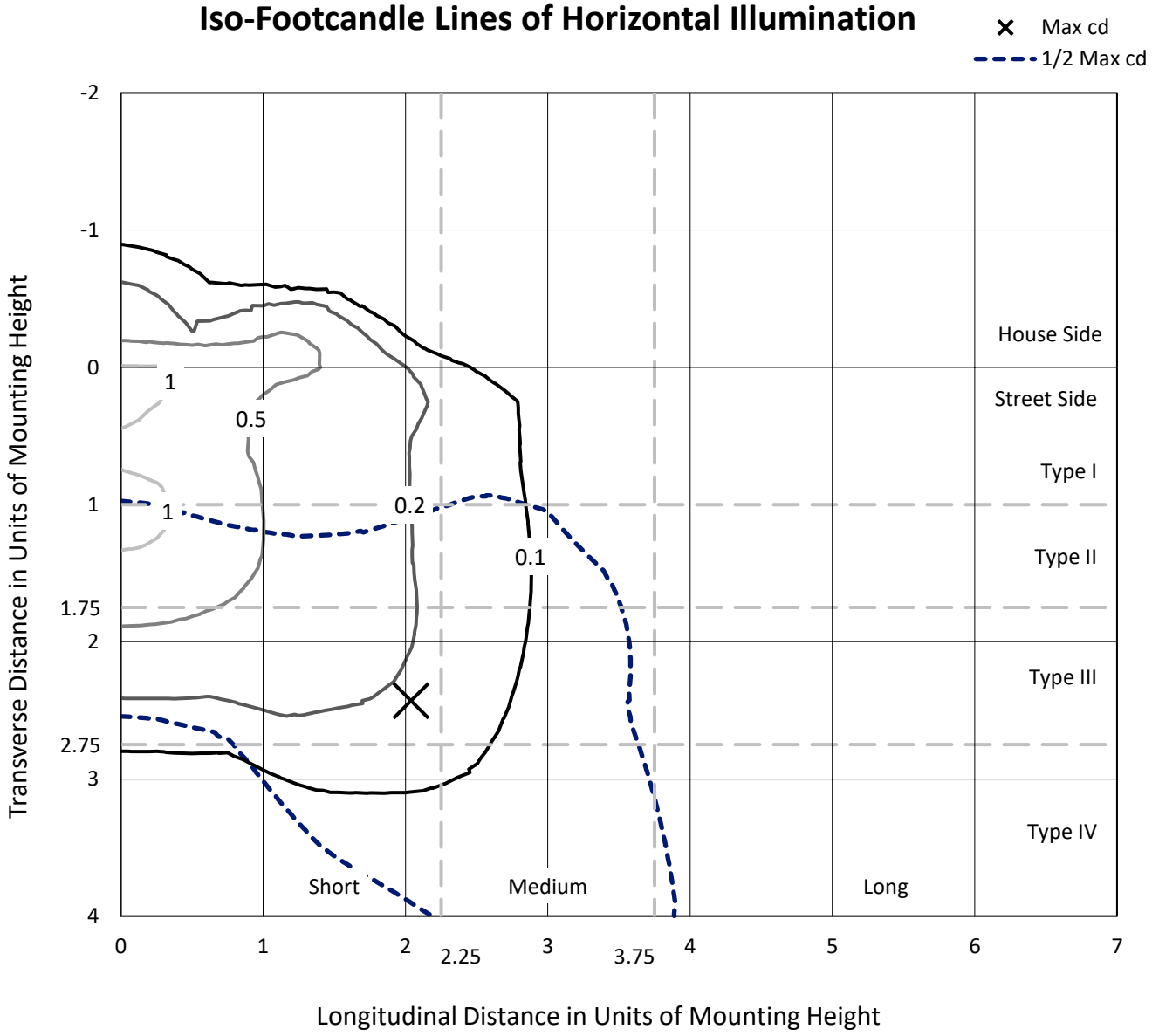
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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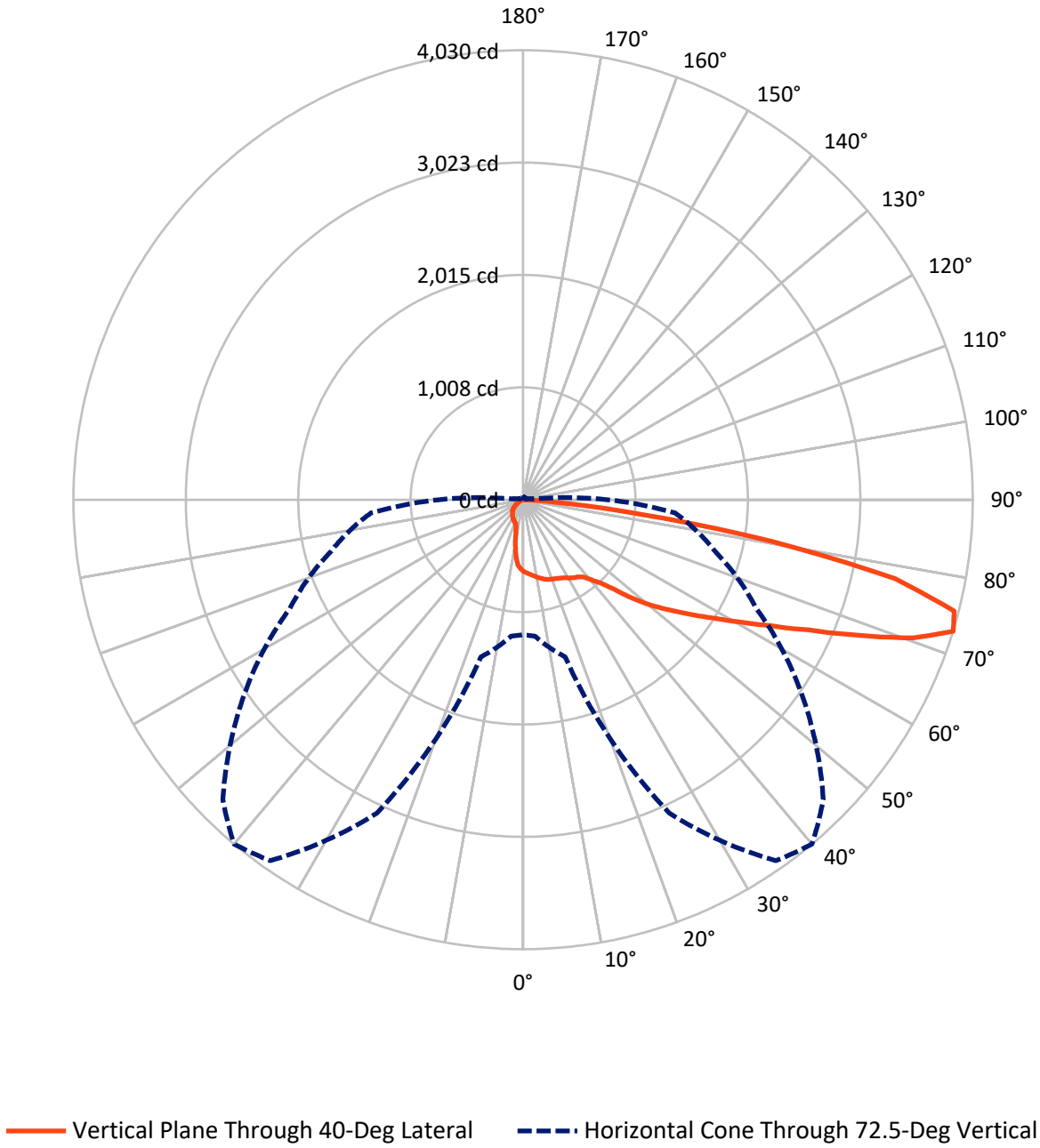
Luminous Intensity Polar Plot



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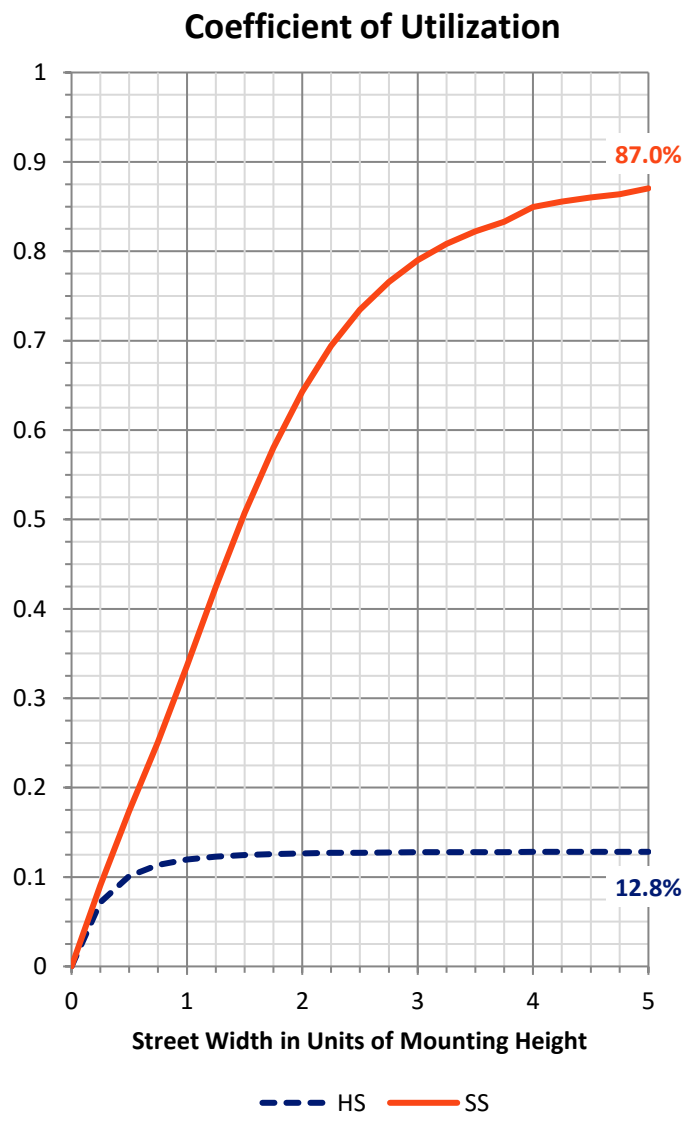
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.5	0.0	626.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4224.5	0.0	4224.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	4851.0	0.0	4851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.2
10°-20°	159.3	3.3
20°-30°	257.8	5.3
30°-40°	380.5	7.8
40°-50°	640.5	13.2
50°-60°	994.5	20.5
60°-70°	1244.4	25.7
70°-80°	1018.8	21.0
80°-90°	96.6	2.0
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°	4851.0	100.0
0°-180°	4851.0	100.0



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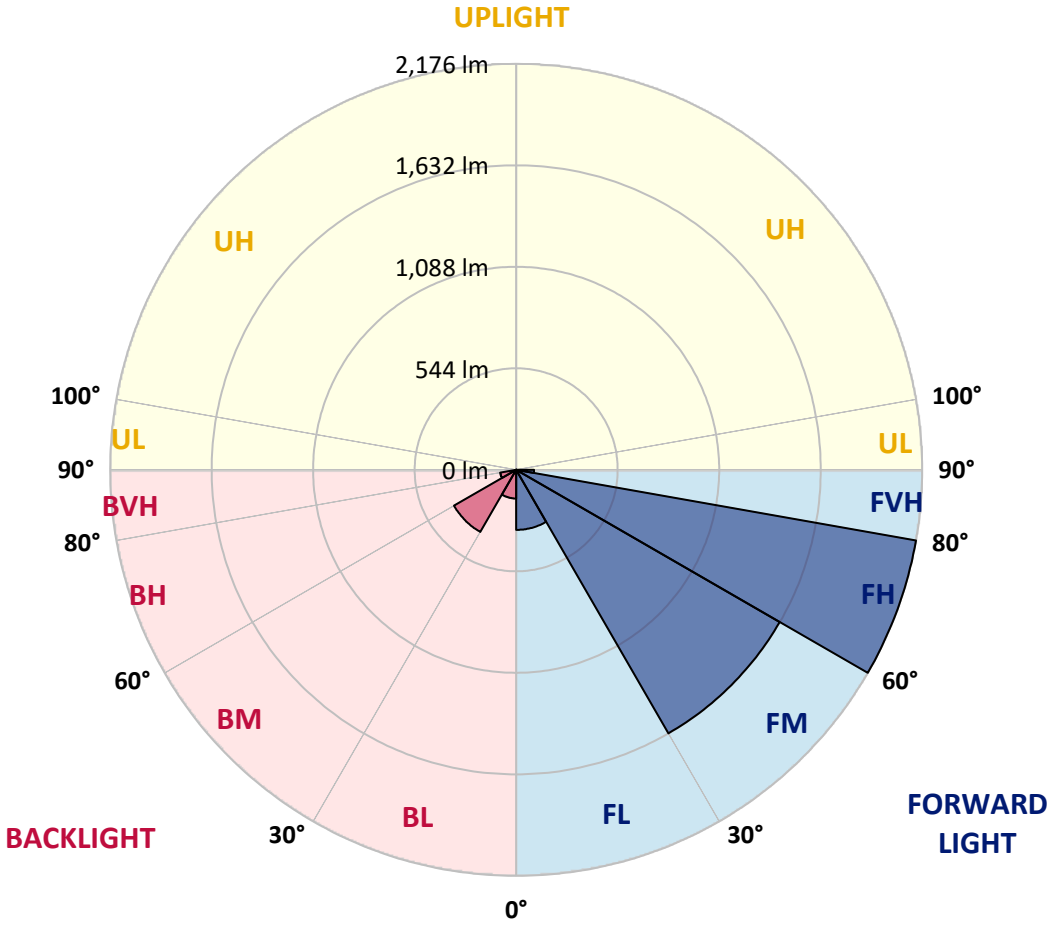
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	322.0	6.6			
FM	(30°-60°)	1630.8	33.6			
FH	(60°-80°)	2175.9	44.9			G2/5000
FVH	(80°-90°)	95.9	2.0			G1/100
BL	(0°-30°)	153.8	3.2	B1/500		
BM	(30°-60°)	384.7	7.9	B1/1000		
BH	(60°-80°)	87.3	1.8	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	642.3	642.3	642.3	642.3	642.3	*642.3*	642.3	642.3	642.3	642.3
2.5°	661.7	664.2	662.8	659.8	659.1	*657.7*	655.8	655.1	652.5	650.3
5°	680.3	682.9	681.0	677.0	675.2	*673.4*	670.8	668.6	663.5	658.8
7.5°	700.8	703.0	700.8	694.9	692.0	*689.8*	686.2	682.9	677.0	670.1
10°	723.4	725.2	722.0	714.3	709.5	*706.3*	703.0	699.3	693.8	686.2
12.5°	744.6	746.8	741.7	732.6	727.1	*723.8*	720.1	717.2	711.7	704.4
15°	764.0	767.3	758.5	748.6	742.4	*739.9*	736.2	734.4	730.7	725.6
17.5°	778.6	780.8	771.7	760.0	753.0	*751.2*	748.6	749.7	749.0	746.4
20°	791.0	792.5	780.4	766.2	758.5	*758.9*	758.1	761.8	763.2	763.2
22.5°	806.4	806.7	791.4	773.5	764.3	*766.9*	768.0	772.0	774.9	777.9
25°	826.5	825.7	807.5	783.0	774.9	*778.6*	781.2	782.6	785.9	790.6
27.5°	856.4	854.2	830.8	798.3	788.8	*792.1*	796.9	796.1	794.7	798.3
30°	894.4	891.5	860.4	819.9	811.1	*814.0*	815.5	808.9	798.3	801.6
32.5°	954.7	949.6	906.5	844.0	830.5	*833.8*	831.9	818.4	802.7	806.0
35°	1059.6	1047.1	986.1	894.4	852.4	*848.7*	844.4	831.2	811.8	808.6
37.5°	1282.4	1260.5	1156.4	992.7	902.1	*878.3*	864.8	851.7	821.7	808.6
40°	1533.8	1511.5	1391.3	1157.1	984.7	*944.5*	912.3	875.8	831.9	813.3
42.5°	1796.1	1771.7	1648.2	1361.0	1102.7	*1020.1*	960.2	895.1	848.7	827.9
45°	2089.2	2058.5	1897.0	1573.6	1274.0	*1145.8*	1037.3	935.0	878.0	853.9
47.5°	2398.3	2358.4	2145.1	1780.1	1458.5	*1319.7*	1178.3	1006.2	921.1	892.6
50°	2672.3	2632.8	2401.2	1996.0	1631.0	*1485.2*	1339.1	1104.9	985.8	947.4
52.5°	2869.2	2839.3	2634.3	2218.9	1810.4	*1640.5*	1484.8	1219.6	1067.6	1017.5
55°	3001.1	2973.7	2799.4	2430.0	2019.0	*1811.5*	1628.4	1344.2	1166.2	1101.6
57.5°	3081.1	3065.4	2918.9	2618.6	2225.8	*1998.5*	1792.8	1481.2	1282.4	1200.6
60°	3109.6	3096.8	2993.1	2798.3	2475.7	*2223.2*	1986.1	1635.7	1423.5	1313.1
62.5°	3033.6	3036.2	3046.4	3011.3	2739.1	*2486.3*	2217.8	1821.3	1579.8	1440.6
65°	2675.9	2697.1	2891.5	3247.4	3088.1	*2815.9*	2512.6	2047.9	1758.9	1585.7
67.5°	2215.6	2246.3	2488.1	3385.5	3460.0	*3243.7*	2923.3	2336.5	1972.2	1733.3
70°	1696.0	1728.9	2021.9	3356.6	3808.2	*3711.4*	3431.1	2703.7	2193.3	1835.6
72.5°	*1210.5*	*1227.3*	*1458.2*	*3099.8*	*3951.1*	*4030.0*	*3805.3*	*3051.5*	*2306.2*	*1779.0*
75°	850.6	847.6	1000.7	2496.2	3728.6	*3991.2*	3674.1	2863.4	2087.0	1413.2
77.5°	370.5	371.2	499.8	1515.9	2975.9	*3408.9*	3054.1	1793.6	1454.9	749.0
80°	96.1	99.0	183.4	603.6	1791.8	*2249.9*	1862.6	788.5	672.3	182.7
82.5°	34.0	36.2	84.4	189.6	660.9	*1031.8*	829.4	252.1	175.4	52.2
85°	9.9	11.7	45.3	58.1	136.6	*291.6*	201.3	49.0	43.1	27.0
87.5°	0.0	1.5	9.1	8.0	8.0	*5.5*	10.2	5.5	6.9	3.3
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°
642.3	0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
647.8	2.5°	645.6	643.0	637.6	631.7	626.2	621.1	619.7	614.2	611.6	612.0
652.9	5°	648.9	644.1	633.5	620.8	607.6	592.6	580.2	562.7	547.7	545.9
662.8	7.5°	657.7	650.0	632.8	608.0	575.1	533.8	495.4	457.4	435.9	424.2
677.4	10°	671.2	660.9	634.6	587.1	517.4	443.6	385.5	337.6	313.1	301.8
695.3	12.5°	687.3	675.9	637.6	551.7	442.8	346.0	283.2	253.9	248.8	248.1
717.2	15°	709.9	697.5	640.9	503.8	362.1	263.4	234.6	234.9	238.9	241.1
741.0	17.5°	735.1	722.7	636.1	445.4	282.4	225.1	224.3	227.6	233.5	235.7
762.9	20°	760.7	749.0	619.3	376.7	228.4	214.5	217.4	221.0	226.9	229.8
784.4	22.5°	787.0	776.8	592.6	303.6	206.1	206.8	210.5	214.1	220.7	224.0
805.6	25°	815.1	806.4	557.2	243.3	196.6	198.8	203.5	207.9	214.8	218.9
823.5	27.5°	843.6	837.1	517.0	203.1	187.8	190.4	195.8	201.7	208.6	213.4
839.2	30°	874.7	871.0	484.8	188.2	179.4	181.6	187.8	194.4	202.0	207.9
855.0	32.5°	906.5	905.7	469.1	199.1	171.7	173.2	178.7	185.2	194.7	202.0
868.1	35°	937.9	939.4	460.0	230.2	169.2	165.1	168.8	174.6	186.0	195.1
883.1	37.5°	978.1	981.7	459.6	263.8	175.4	157.1	159.7	163.7	173.5	184.1
906.5	40°	1038.0	1057.4	483.0	292.7	186.3	149.8	150.5	151.3	156.4	165.1
937.5	42.5°	1117.7	1174.3	567.4	312.4	190.7	143.2	140.7	136.6	135.9	140.7
979.9	45°	1216.7	1315.7	715.8	323.3	186.3	135.9	129.0	118.4	114.4	117.6
1037.3	47.5°	1333.2	1470.6	891.5	325.9	179.0	126.8	114.4	100.5	97.2	98.3
1114.4	50°	1446.8	1586.8	1046.0	304.7	167.0	115.1	98.3	86.6	84.4	84.8
1205.3	52.5°	1547.3	1626.6	1089.9	254.7	150.9	100.8	84.4	76.4	74.9	74.9
1305.8	55°	1613.8	1583.5	971.9	194.7	130.8	86.2	72.3	68.3	67.6	67.2
1418.0	57.5°	1627.7	1443.2	734.0	140.7	102.3	72.7	64.3	62.1	60.7	59.2
1533.1	60°	1578.0	1209.4	467.3	98.3	76.7	62.1	57.0	55.5	52.6	49.7
1641.2	62.5°	1470.6	913.4	258.7	68.3	61.7	53.0	50.4	48.6	43.1	38.4
1727.1	65°	1326.3	607.2	114.4	53.3	50.4	44.6	43.1	40.6	34.0	28.5
1759.6	67.5°	1181.2	349.7	51.5	42.7	40.6	36.5	35.4	33.6	28.9	23.7
1676.7	70°	1015.7	177.2	35.4	34.0	31.4	27.8	28.9	28.5	23.7	19.4
1367.6	72.5°	*756.3*	*88.1*	*26.7*	*25.6*	*22.7*	*19.7*	*23.7*	*23.4*	*18.6*	*14.6*
843.3	75°	428.2	43.5	19.4	17.9	13.5	14.6	19.0	17.9	12.8	9.5
355.9	77.5°	169.9	22.3	12.8	11.0	8.0	9.9	13.9	12.1	6.6	4.0
68.0	80°	39.1	11.0	6.6	4.7	3.7	5.8	7.3	4.4	1.8	0.4
18.3	82.5°	11.0	4.7	2.2	1.8	1.8	2.2	1.8	0.7	0.0	0.0
4.7	85°	3.7	2.2	0.7	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.5	87.5°	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
642.3
611.6
544.8
423.5
299.6
247.7
240.8
235.3
229.8
224.0
218.9
213.7
208.6
202.8
196.6
186.0
168.1
143.2
117.6
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