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: P940176

Luminaire Tested: **GALN-SB3A-840-U-T3-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P940176
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB3A-840-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10097 lumens
Efficiency:	N/A
Efficacy:	119.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2
Input Watts (W):	84.7
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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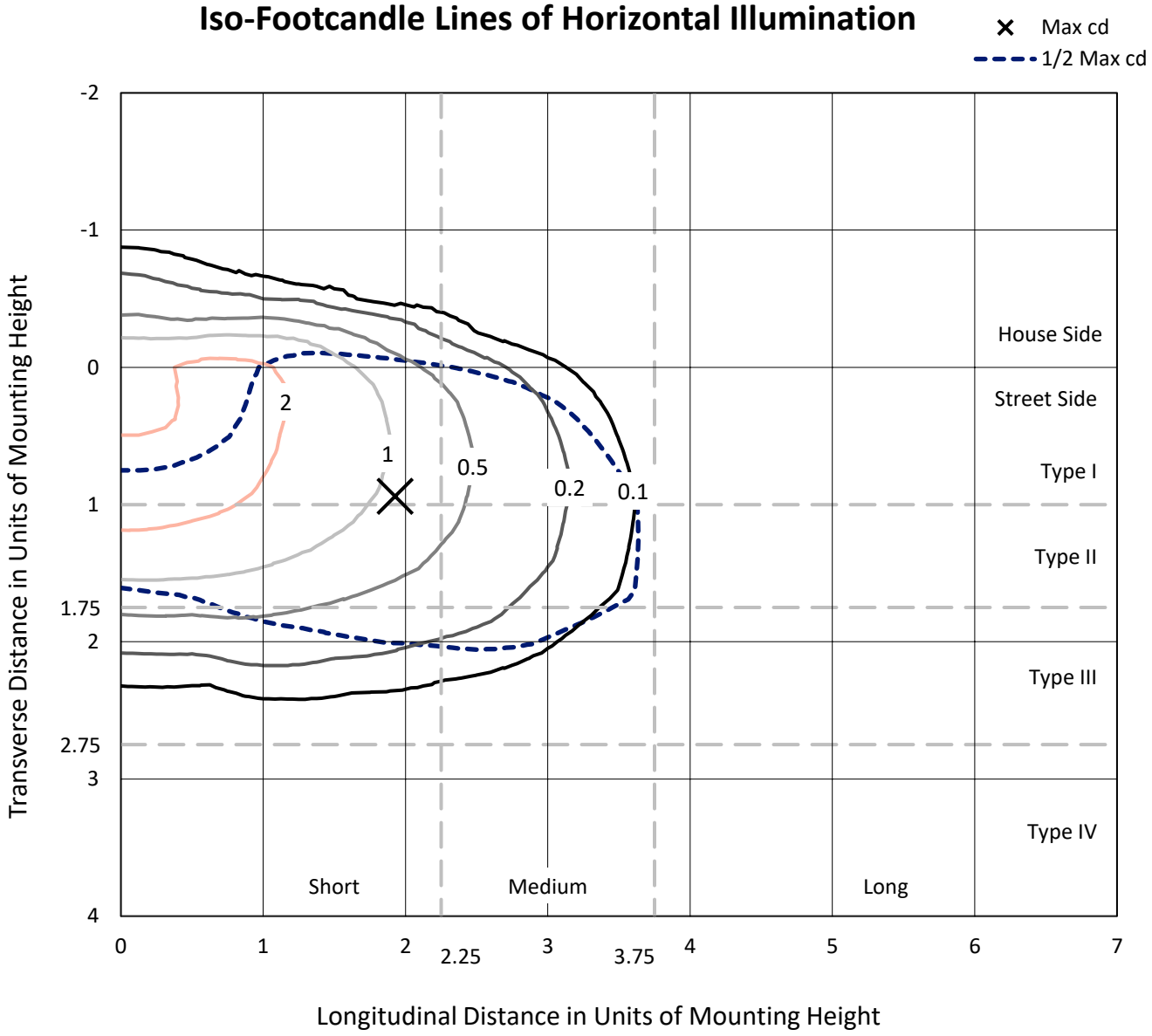
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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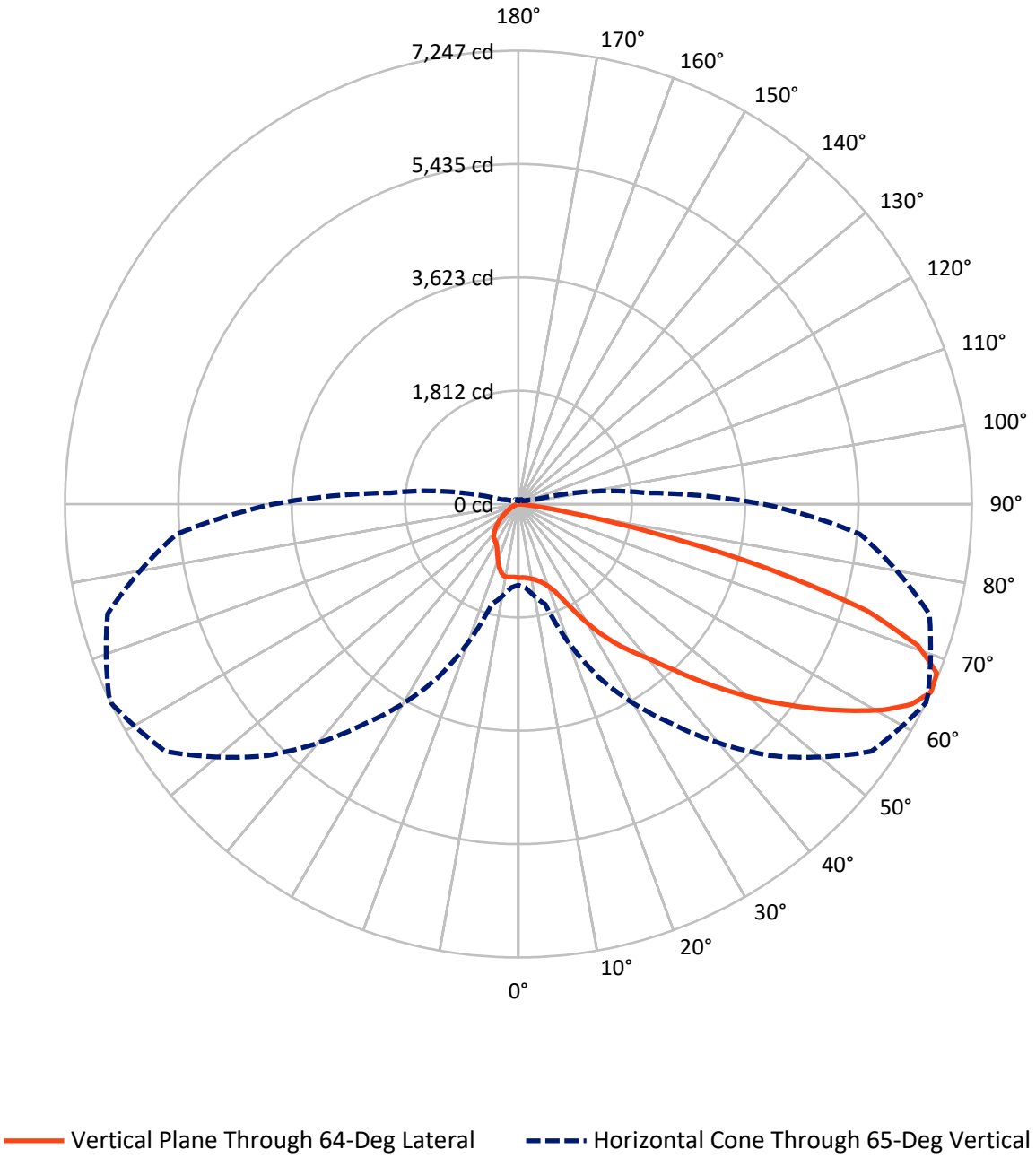
Luminous Intensity Polar Plot



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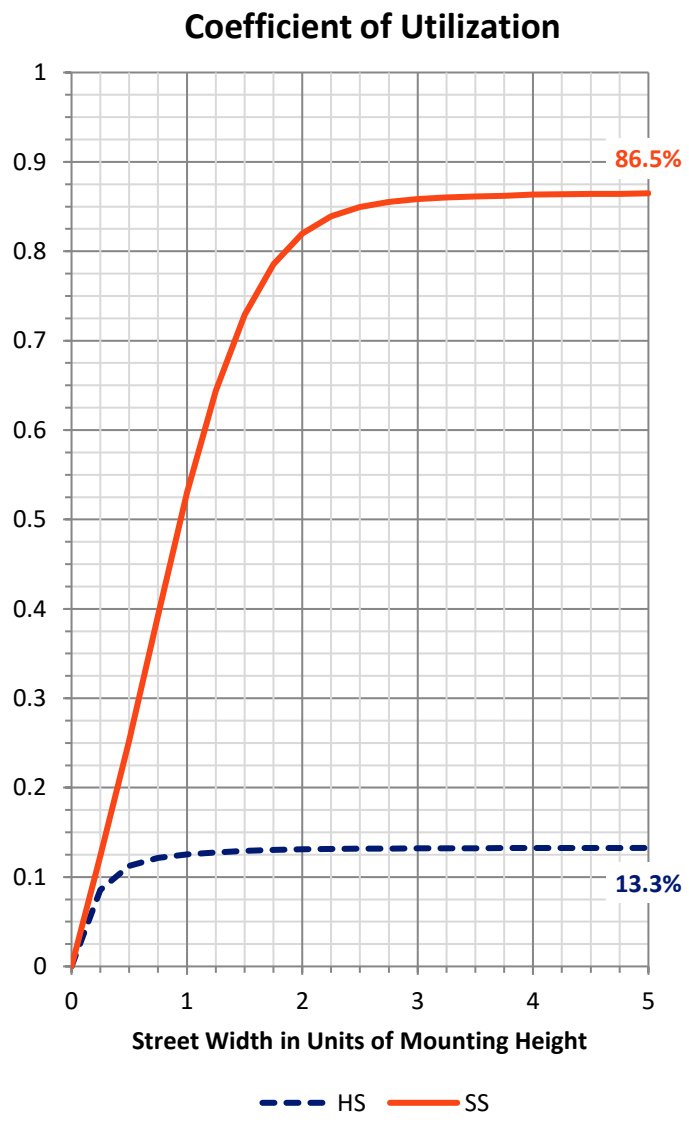
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.3	0.0	1350.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8746.7	0.0	8746.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	10097.0	0.0	10097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.1
10°-20°	293.9	2.9
20°-30°	556.9	5.5
30°-40°	1126.8	11.2
40°-50°	1919.6	19.0
50°-60°	2610.5	25.9
60°-70°	2451.4	24.3
70°-80°	982.1	9.7
80°-90°	47.6	0.5
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°	10097.0	100.0
0°-180°	10097.0	100.0



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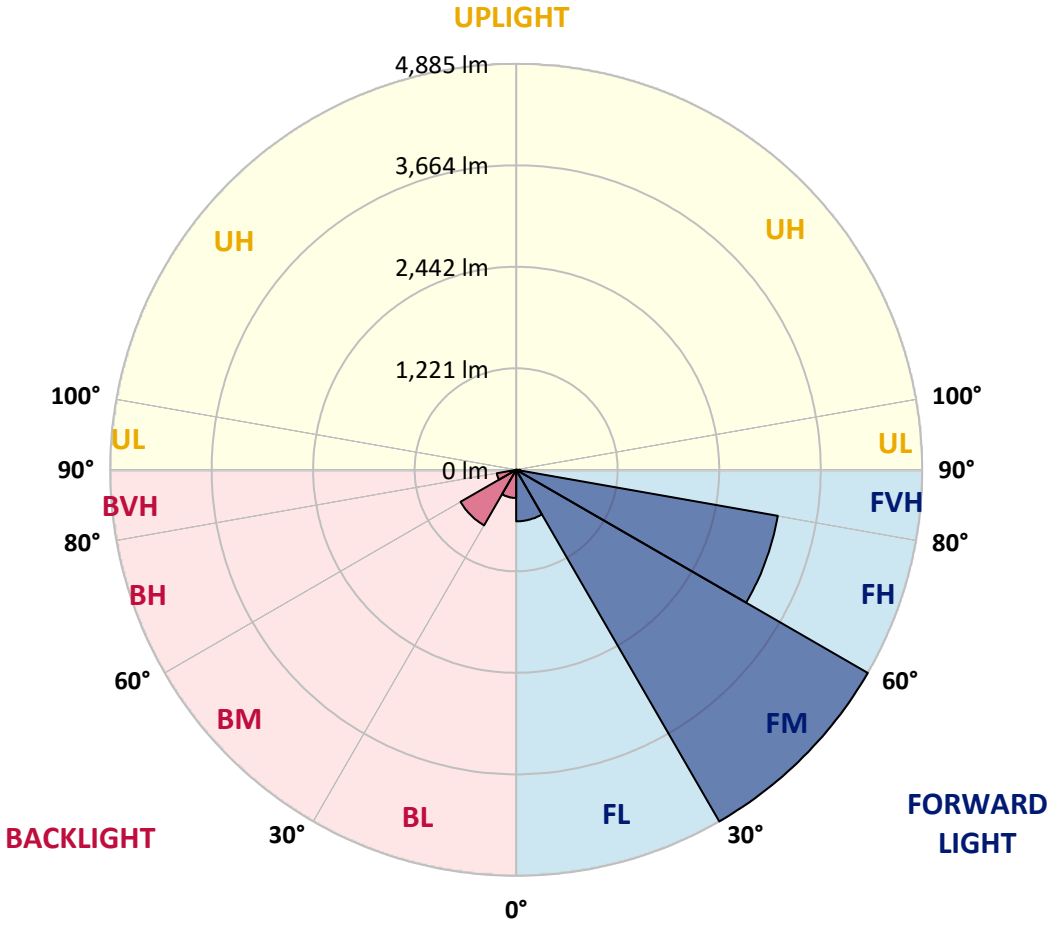
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	620.1	6.1			
FM	(30°-60°)	4884.9	48.4			
FH	(60°-80°)	3196.5	31.7			G2/5000
FVH	(80°-90°)	45.3	0.4			G1/100
BL	(0°-30°)	339.0	3.4	B1/500		
BM	(30°-60°)	771.9	7.6	B1/1000		
BH	(60°-80°)	237.0	2.3	B1/500		G1/500
BVH	(80°-90°)	2.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	*1174.4*	1174.4	1174.4
2.5°	1170.3	1178.4	1176.4	1174.4	1173.7	1175.1	1175.7	*1175.1*	1175.1	1175.1
5°	1148.0	1154.8	1154.8	1159.5	1166.3	1174.4	1180.5	*1181.8*	1183.2	1185.2
7.5°	1105.3	1110.8	1114.8	1130.4	1147.3	1169.0	1187.2	*1196.7*	1198.1	1205.5
10°	1076.2	1083.0	1089.8	1106.0	1130.4	1162.9	1194.0	*1217.0*	1220.4	1238.0
12.5°	1074.9	1081.7	1090.5	1108.1	1136.5	1171.0	1208.9	*1242.1*	1248.2	1273.9
15°	1089.1	1097.2	1105.3	1127.0	1157.5	1199.4	1240.0	*1281.3*	1287.4	1324.0
17.5°	1118.2	1129.0	1135.1	1156.8	1189.3	1236.0	1289.5	*1336.8*	1342.3	1384.9
20°	1175.7	1188.6	1190.6	1208.2	1240.0	1290.1	1353.8	*1412.6*	1419.4	1468.2
22.5°	1294.9	1313.1	1296.9	1305.7	1334.1	1384.2	1453.3	*1527.7*	1537.2	1592.7
25°	1504.7	1530.4	1488.5	1473.6	1485.8	1537.9	1624.5	*1718.6*	1729.4	1774.1
27.5°	1916.9	1883.8	1820.1	1757.9	1721.3	1751.1	1848.6	*1965.0*	1978.5	2021.8
30°	2369.8	2340.6	2254.7	2116.6	2030.0	2025.2	2115.2	*2245.2*	2260.8	2302.1
32.5°	2823.3	2795.5	2702.1	2532.2	2381.9	2307.5	2369.8	*2513.9*	2522.1	2548.5
35°	3269.3	3240.9	3147.5	2973.5	2788.7	2619.5	2607.3	*2769.8*	2772.5	2800.3
37.5°	3718.1	3694.4	3594.9	3424.3	3242.3	3008.7	2895.7	*3012.1*	3015.5	3042.6
40°	4038.3	4048.4	3980.1	3848.1	3691.7	3436.5	3219.2	*3270.0*	3249.7	3295.0
42.5°	4313.1	4333.4	4273.8	4207.5	4116.8	3892.1	3620.0	*3611.2*	3578.7	3603.0
45°	4550.7	4567.6	4514.1	4498.5	4496.5	4338.8	4057.9	*4005.1*	3959.7	3955.0
47.5°	4638.0	4670.5	4693.5	4745.6	4847.1	4780.8	4510.7	*4428.8*	4378.1	4340.8
50°	4671.1	4705.7	4784.2	4935.8	5176.1	5204.5	4961.5	*4869.5*	4807.2	4739.5
52.5°	4626.5	4688.1	4793.7	5048.8	5397.4	5544.3	5394.1	*5313.5*	5242.4	5132.1
55°	4363.2	4424.8	4640.7	5047.5	5507.8	5782.6	5802.9	*5767.0*	5687.1	5513.2
57.5°	3808.1	3899.5	4241.3	4875.6	5505.7	5987.7	6203.6	*6229.3*	6140.0	5890.9
60°	3039.2	3163.1	3580.0	4494.5	5335.8	6098.7	6554.9	*6683.5*	6588.7	6263.2
62.5°	2120.7	2264.2	2658.8	3897.5	4947.3	6018.8	6811.4	*7049.0*	6977.3	6596.2
65°	*1293.5*	*1339.5*	*1657.7*	*3066.9*	*4286.7*	*5684.4*	*6890.6*	*7246.7*	*7223.0*	*6799.9*
67.5°	861.7	900.2	991.6	2103.1	3327.5	5016.4	6701.1	*7212.2*	7218.9	6766.8
70°	519.2	552.3	611.9	1223.1	2156.5	3970.6	6114.3	*6772.2*	6811.4	6323.4
72.5°	213.9	236.2	290.4	554.4	1116.9	2520.0	4868.8	*5814.4*	5905.8	5316.9
75°	121.2	132.7	170.6	278.2	484.6	1174.4	2949.2	*4127.6*	4262.3	3664.6
77.5°	80.5	86.0	110.3	180.0	272.8	400.7	1260.3	*2150.4*	2407.7	2001.5
80°	54.2	58.9	75.8	120.5	177.3	171.9	401.4	*796.7*	980.1	687.7
82.5°	36.6	37.2	54.2	79.2	112.4	83.3	118.5	*247.7*	311.4	199.0
85°	21.0	20.3	39.9	46.0	50.1	34.5	35.9	*74.5*	97.5	83.9
87.5°	2.7	4.1	15.6	12.2	6.8	7.4	7.4	*12.9*	19.0	20.3
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°
1174.4	0°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
1175.7	2.5°	1175.7	1175.1	1173.0	1171.0	1166.3	1163.6	1164.9	1163.6	1162.9	1163.6
1184.5	5°	1184.5	1182.5	1177.1	1170.3	1160.8	1149.3	1141.9	1131.1	1120.9	1114.8
1208.2	7.5°	1208.2	1206.2	1198.8	1179.8	1149.3	1101.3	1057.3	1018.7	989.6	972.7
1246.1	10°	1246.1	1242.8	1231.2	1189.3	1109.4	1004.5	917.2	844.7	797.4	775.0
1290.8	12.5°	1290.8	1286.7	1266.4	1180.5	1033.6	869.8	749.3	668.8	624.8	605.1
1342.3	15°	1343.6	1338.2	1298.3	1138.5	923.3	720.9	610.5	550.3	521.9	504.3
1407.9	17.5°	1409.3	1399.8	1321.9	1075.6	803.5	607.2	525.3	479.9	454.9	437.9
1493.9	20°	1494.5	1479.0	1340.9	1000.4	693.1	535.4	467.7	429.8	410.9	396.0
1615.7	22.5°	1613.7	1591.3	1363.9	919.2	615.3	486.0	425.1	397.3	381.8	364.8
1785.6	25°	1761.2	1734.8	1392.3	844.1	561.8	443.4	393.9	370.9	352.7	333.0
2008.3	27.5°	1967.7	1920.3	1426.2	782.5	515.8	406.8	365.5	339.8	318.8	302.6
2260.8	30°	2197.8	2120.0	1456.0	745.2	473.8	373.0	328.3	302.6	282.9	271.4
2487.5	32.5°	2415.8	2310.2	1475.6	729.0	435.9	334.4	287.7	259.9	245.0	241.6
2709.5	35°	2621.6	2482.1	1473.6	713.4	402.1	295.8	247.7	219.3	207.8	209.8
2948.5	37.5°	2858.5	2665.6	1459.4	689.1	374.3	260.6	213.2	188.2	178.0	178.7
3238.9	40°	3134.0	2877.4	1450.6	643.0	343.9	228.1	184.8	164.5	157.0	154.3
3544.8	42.5°	3427.7	3082.5	1451.9	590.9	305.9	199.0	165.2	148.2	141.5	139.4
3885.3	45°	3722.8	3278.1	1453.9	536.8	266.0	176.7	150.9	136.7	132.7	130.0
4230.5	47.5°	4000.4	3444.6	1416.0	478.6	226.8	159.7	139.4	130.0	126.6	123.2
4577.1	50°	4258.9	3555.6	1324.7	410.9	195.6	146.2	130.6	123.9	120.5	117.1
4891.1	52.5°	4460.0	3573.2	1173.7	341.1	174.0	136.1	125.2	119.1	115.1	111.7
5145.0	55°	4549.3	3462.9	959.1	276.2	157.0	127.3	119.8	113.7	109.0	105.6
5344.6	57.5°	4526.3	3230.7	748.0	222.0	140.8	118.5	113.0	109.0	103.6	98.1
5506.4	60°	4413.3	2920.1	563.8	184.8	125.9	109.0	105.6	102.2	94.8	86.6
5568.7	62.5°	4217.6	2529.5	402.1	153.0	109.7	98.1	96.8	94.1	83.3	68.4
5476.6	65°	*3918.5*	*2055.0*	*270.8*	*127.3*	*94.1*	*86.0*	*86.6*	*81.9*	*67.7*	*50.8*
5139.5	67.5°	3481.2	1502.7	173.3	104.2	78.5	71.7	72.4	69.7	57.5	43.3
4500.6	70°	2924.1	995.0	113.0	79.2	62.9	55.5	59.6	60.2	48.7	35.2
3454.1	72.5°	2143.7	587.5	79.2	58.9	46.0	38.6	48.7	50.1	39.3	26.4
2078.0	75°	1221.8	278.9	59.6	42.6	28.4	27.1	37.9	37.9	27.1	17.6
899.6	77.5°	513.1	116.4	42.0	27.8	16.2	15.6	25.7	23.7	13.5	8.1
219.3	80°	148.2	52.1	22.3	13.5	6.8	6.1	10.2	7.4	3.4	1.4
83.3	82.5°	58.2	23.0	8.8	5.4	2.7	2.7	1.4	0.0	0.0	0.0
47.4	85°	34.5	9.5	4.1	2.0	0.7	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	8.8	2.0	1.4	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°
1174.4
1166.3
1116.2
973.4
773.0
603.1
505.0
436.6
393.3
362.1
331.0
299.2
269.4
243.7
209.8
181.4
153.7
138.8
130.0
123.2
117.1
111.0
104.9
97.5
85.3
67.0
49.4
41.3
33.8
25.0
16.2
8.1
1.4
0.0
0.0
0.0
0.0

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