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: P939808

Luminaire Tested: **GALN-SB2C-827-U-T4FT-HSS**

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:	P939808
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2C-827-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9861 lumens
Efficiency:	N/A
Efficacy:	97.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2
Input Watts (W):	100.9
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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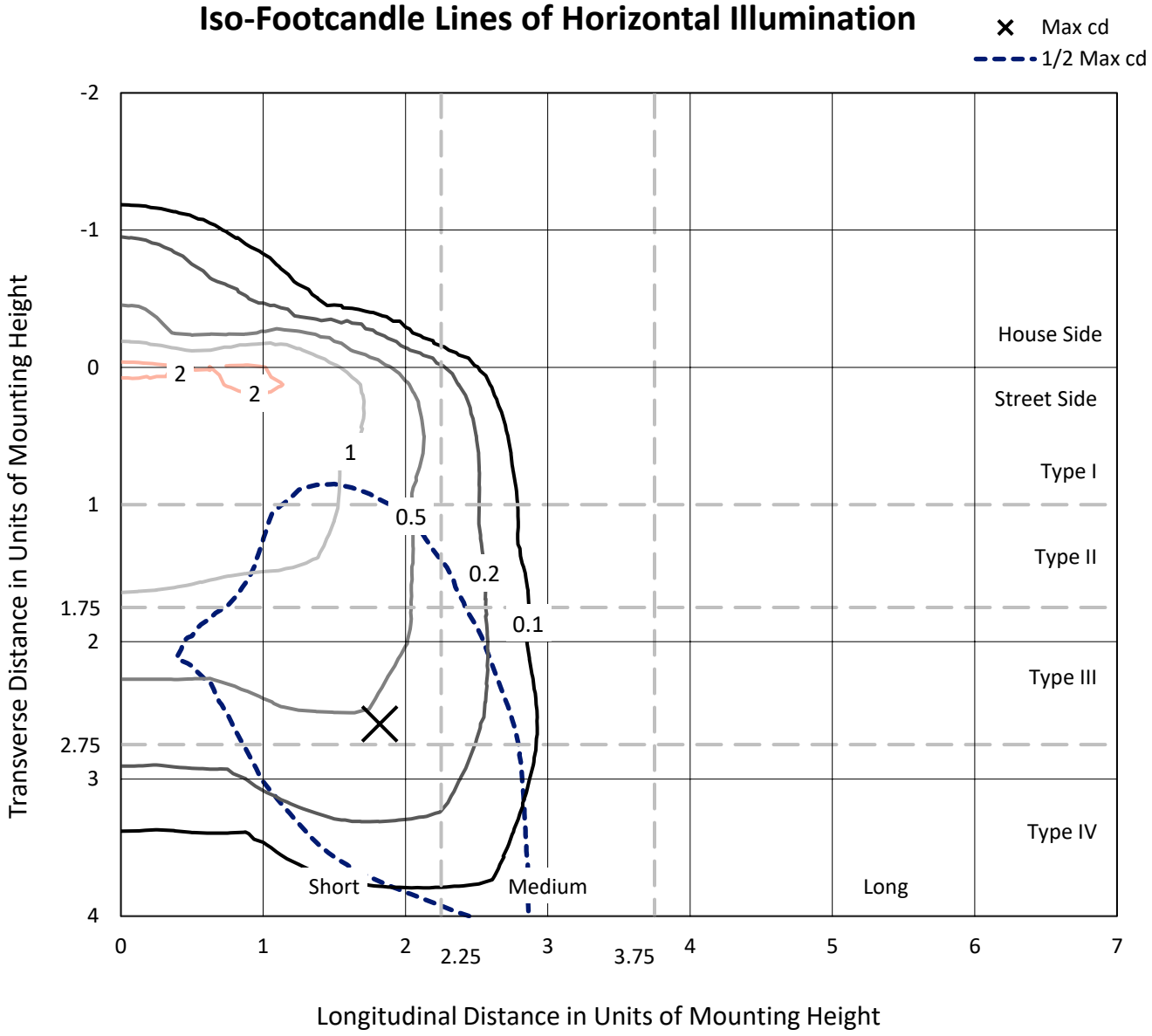
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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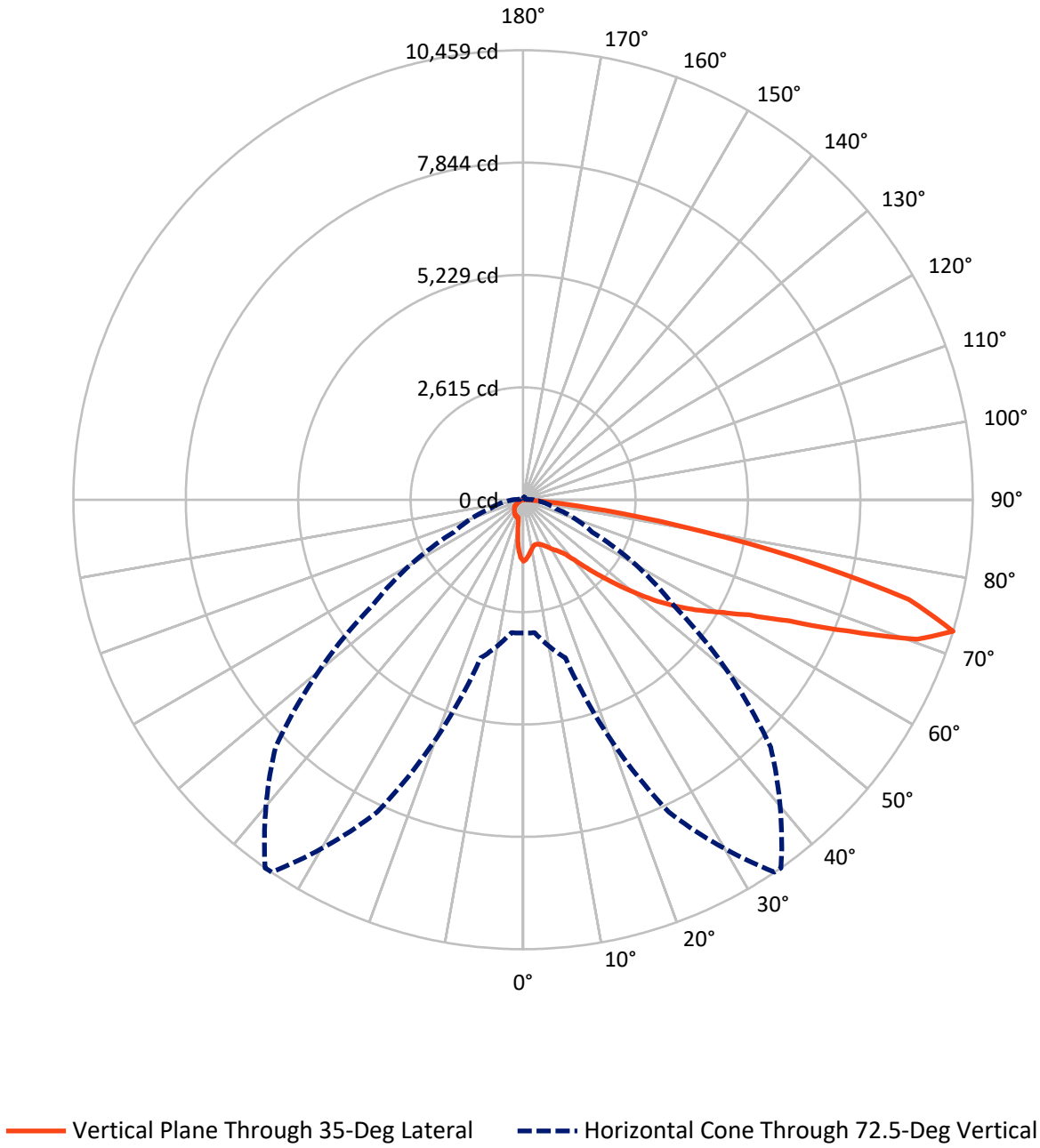
Luminous Intensity Polar Plot



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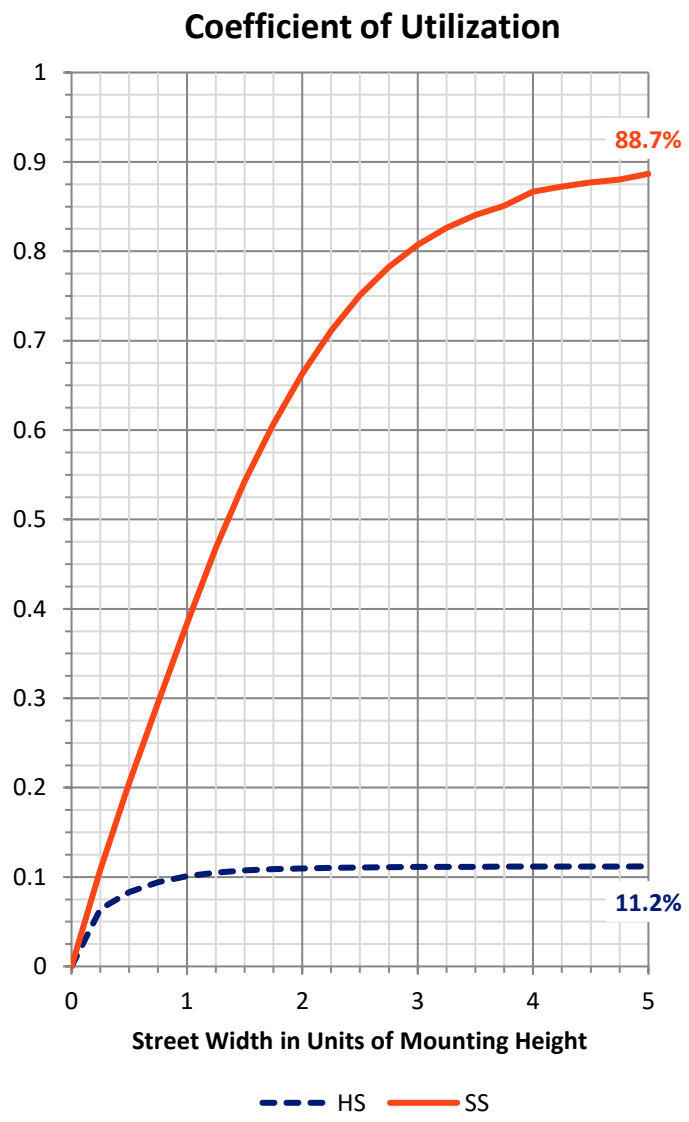
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.8	0.0	1109.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8751.2	0.0	8751.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	9861.0	0.0	9861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.2
10°-20°	274.7	2.8
20°-30°	446.3	4.5
30°-40°	744.7	7.6
40°-50°	1408.9	14.3
50°-60°	2238.8	22.7
60°-70°	2769.5	28.1
70°-80°	1721.5	17.5
80°-90°	139.1	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°	9861.0	100.0
0°-180°	9861.0	100.0



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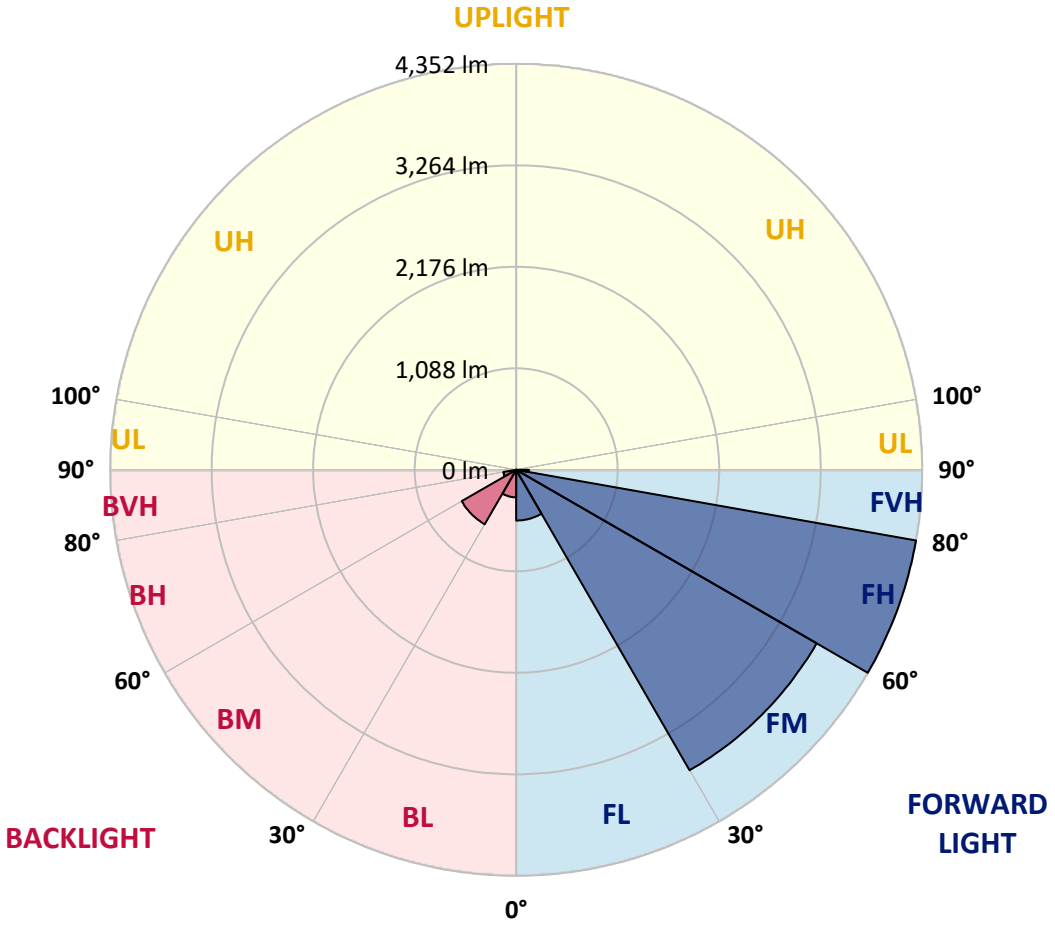
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	543.6	5.5			
FM	(30°-60°)	3718.6	37.7			
FH	(60°-80°)	4351.8	44.1			G2/5000
FVH	(80°-90°)	137.2	1.4			G2/225
BL	(0°-30°)	294.9	3.0	B1/500		
BM	(30°-60°)	673.8	6.8	B1/1000		
BH	(60°-80°)	139.3	1.4	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	34°	35°	45°	55°	65°	75°
0°	1429.2	1429.2	1429.2	1429.2	1429.2	*1429.2*	1429.2	1429.2	1429.2	1429.2
2.5°	1365.6	1377.2	1379.3	1382.9	1382.9	*1387.3*	1394.5	1404.6	1421.2	1429.9
5°	1258.7	1267.3	1278.2	1286.8	1303.5	*1305.6*	1333.8	1361.3	1399.6	1428.5
7.5°	1151.0	1161.1	1175.6	1196.5	1218.2	*1224.7*	1267.3	1313.6	1374.3	1428.5
10°	1075.1	1075.9	1088.9	1109.8	1144.5	*1152.5*	1204.5	1270.2	1346.1	1419.8
12.5°	1032.5	1037.6	1043.4	1059.2	1092.5	*1097.5*	1153.2	1230.5	1317.9	1414.7
15°	1032.5	1036.1	1039.7	1047.7	1074.4	*1078.8*	1127.9	1205.2	1303.5	1416.9
17.5°	1043.4	1049.1	1046.2	1055.6	1083.8	*1086.7*	1130.1	1198.0	1302.7	1430.6
20°	1069.4	1073.7	1067.9	1073.7	1101.9	*1107.7*	1152.5	1211.7	1315.0	1454.5
22.5°	1110.5	1112.7	1099.0	1103.3	1132.2	*1139.4*	1191.5	1250.7	1344.7	1492.8
25°	1162.6	1166.9	1146.0	1151.0	1178.5	*1187.1*	1247.1	1309.2	1391.6	1545.5
27.5°	1222.5	1224.7	1206.6	1205.9	1241.3	*1253.6*	1314.3	1381.5	1454.5	1612.0
30°	1291.2	1297.7	1280.3	1277.5	1322.3	*1332.4*	1392.3	1470.4	1547.0	1711.7
32.5°	1345.4	1350.4	1340.3	1347.5	1393.1	*1401.0*	1487.0	1596.1	1692.2	1853.3
35°	1423.4	1426.3	1403.2	1416.2	1468.2	*1488.4*	1616.3	1772.4	1875.0	2031.1
37.5°	1705.9	1705.9	1607.7	1543.4	1593.2	*1611.3*	1793.4	1994.2	2100.4	2269.5
40°	2096.8	2090.3	1946.5	1815.0	1808.5	*1843.9*	2045.5	2273.8	2391.6	2555.6
42.5°	2513.7	2503.6	2307.8	2177.7	2156.1	*2168.4*	2336.7	2618.5	2738.4	2904.6
45°	2883.7	2880.8	2701.6	2526.7	2487.7	*2526.7*	2700.1	3021.7	3107.7	3282.5
47.5°	3193.6	3193.6	3062.9	2948.7	2928.5	*2951.6*	3192.2	3468.9	3461.0	3685.0
50°	3550.6	3547.7	3423.4	3374.3	3395.2	*3427.7*	3758.7	3940.0	3826.6	4080.2
52.5°	3800.6	3817.9	3775.3	3767.3	3874.3	*3930.6*	4333.8	4401.0	4153.9	4455.2
55°	3998.6	4018.8	4067.9	4123.6	4329.5	*4403.2*	4890.9	4838.1	4427.7	4780.3
57.5°	4278.9	4250.0	4325.9	4435.7	4768.8	*4857.7*	5430.6	5250.7	4648.1	5044.1
60°	4619.2	4623.6	4636.6	4775.3	5207.4	*5321.5*	5962.4	5640.9	4789.7	5205.9
62.5°	5028.2	5034.7	5061.4	5274.6	5796.2	*5903.9*	6528.9	5960.3	4854.8	5160.4
65°	5000.0	5027.5	5325.9	6054.9	6691.5	*6797.7*	7190.0	6184.2	4756.5	4744.2
67.5°	4554.9	4599.7	5099.0	6987.0	8041.2	*8159.7*	7989.2	6228.3	4332.4	3689.3
70°	3971.1	3987.0	4587.4	7825.1	9604.0	*9724.0*	8704.5	5743.5	3287.6	2057.8
72.5°	*3101.2*	*3104.8*	*3809.2*	*8019.5*	*10452.3*	*10458.8*	*8143.1*	*4263.7*	*1768.1*	*790.5*
75°	2215.3	2193.6	2551.3	6503.6	9195.8	*9269.5*	6104.8	2000.0	675.6	373.6
77.5°	1187.9	1211.7	1443.6	3856.9	6352.6	*6478.3*	3330.9	576.6	343.9	254.3
80°	367.1	387.3	591.8	1765.9	3598.3	*3674.1*	1234.8	256.5	239.9	181.4
82.5°	115.6	119.9	276.0	742.1	1493.5	*1528.2*	357.7	145.2	164.0	119.9
85°	33.2	34.0	122.8	276.7	369.2	*376.4*	100.4	56.4	93.9	74.4
87.5°	3.6	11.6	46.2	46.2	32.5	*31.8*	10.8	12.3	26.7	9.4
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°
1429.2	0°	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2	1429.2
1435.7	2.5°	1432.1	1432.8	1423.4	1407.5	1390.2	1375.7	1357.7	1343.2	1333.1	1330.2
1448.7	5°	1442.2	1437.1	1410.4	1362.0	1304.2	1254.3	1198.7	1154.6	1125.7	1113.4
1462.4	7.5°	1457.4	1442.9	1384.4	1289.0	1178.5	1080.2	980.5	903.2	854.0	829.5
1475.4	10°	1470.4	1441.5	1341.0	1183.5	1014.4	865.6	731.2	638.0	586.0	561.4
1490.6	12.5°	1482.7	1440.8	1284.7	1058.5	829.5	647.4	522.4	476.2	461.7	456.6
1515.2	15°	1505.8	1442.9	1213.9	915.5	645.2	489.2	443.6	442.9	445.8	444.4
1552.7	17.5°	1537.6	1445.1	1133.7	763.7	497.8	431.4	429.2	435.7	440.0	437.9
1599.7	20°	1578.8	1453.8	1048.4	613.4	427.7	416.9	422.0	427.7	431.4	427.7
1662.6	22.5°	1636.6	1468.9	955.2	492.8	405.3	408.2	412.6	419.1	422.7	417.6
1742.8	25°	1707.4	1492.8	863.4	428.5	394.5	398.1	404.6	411.8	416.2	411.1
1843.9	27.5°	1799.1	1531.1	778.9	414.0	383.7	385.8	395.2	406.1	411.8	405.3
1987.7	30°	1932.1	1593.9	705.9	420.5	377.2	372.1	385.1	400.3	406.8	401.0
2183.5	32.5°	2108.4	1682.8	661.1	430.6	374.3	356.2	368.5	388.0	398.8	395.2
2439.3	35°	2339.6	1817.9	643.8	442.2	372.1	339.6	348.3	369.2	388.0	391.6
2761.6	37.5°	2619.9	2005.8	648.8	447.3	365.6	325.9	330.2	348.3	372.8	384.4
3124.3	40°	2938.6	2224.7	677.7	442.2	358.4	314.3	315.0	328.8	350.4	367.8
3514.4	42.5°	3267.3	2480.5	731.2	423.4	351.9	304.2	302.0	311.4	325.9	338.1
3903.9	45°	3580.2	2743.5	784.0	397.4	343.9	294.1	289.0	292.6	295.5	300.6
4283.2	47.5°	3853.3	2928.5	768.8	373.6	333.1	282.5	273.8	272.4	263.7	263.0
4622.1	50°	4041.9	2968.9	682.8	349.7	317.2	269.5	255.8	247.1	231.9	224.7
4875.7	52.5°	4101.9	2809.2	557.8	325.9	291.2	252.2	232.7	218.9	200.1	193.6
5021.7	55°	4022.4	2496.4	445.8	297.0	255.1	229.0	207.4	189.3	174.1	166.2
5037.6	57.5°	3828.0	2098.3	352.6	263.0	216.8	203.0	181.4	163.3	150.3	142.3
4861.3	60°	3505.8	1666.2	278.9	222.5	185.0	174.9	152.5	140.9	129.3	119.9
4406.1	62.5°	3016.6	1189.3	218.9	176.3	154.6	143.1	130.1	121.4	107.7	94.7
3587.4	65°	2354.0	727.6	169.1	129.3	124.3	118.5	110.5	102.6	86.0	73.0
2340.3	67.5°	1484.8	344.7	120.7	97.5	98.3	95.4	91.8	85.3	73.0	61.4
1048.4	70°	653.9	166.9	79.5	74.4	73.0	73.0	75.9	73.7	62.1	51.3
364.2	72.5°	*222.5*	*89.6*	*59.2*	*56.4*	*52.7*	*52.0*	*63.6*	*61.4*	*49.9*	*39.7*
181.4	75°	116.3	60.0	43.4	40.5	31.8	38.3	50.6	47.7	35.4	26.0
119.9	77.5°	75.9	42.6	29.6	26.0	18.1	25.3	37.6	33.2	21.0	13.0
78.8	80°	47.7	28.2	17.3	12.3	8.7	13.7	20.2	14.5	7.9	2.9
46.2	82.5°	25.3	14.5	6.5	4.3	3.6	4.3	5.1	3.6	1.4	0.0
23.8	85°	10.1	5.1	2.2	1.4	0.7	0.0	1.4	0.7	0.0	0.0
4.3	87.5°	3.6	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°
1429.2
1335.3
1117.8
833.1
562.1
455.2
443.6
437.1
427.0
416.9
410.4
405.3
400.3
395.2
391.6
387.3
373.6
343.2
303.5
262.3
225.4
192.9
166.2
140.9
117.8
92.5
70.8
60.0
49.1
37.6
23.8
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