

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: P301868

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL4-8030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5920.8 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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: 25 FT



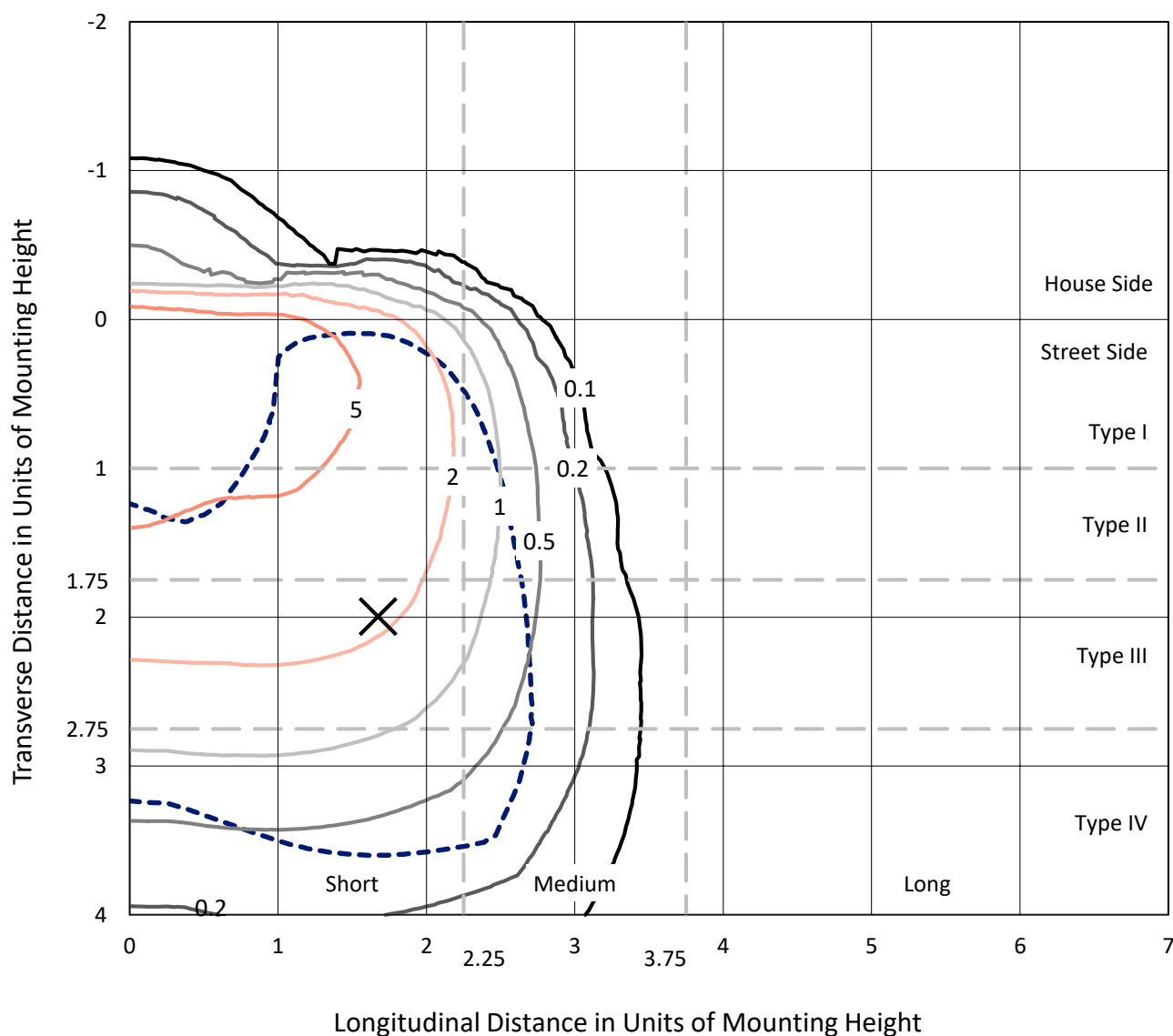
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

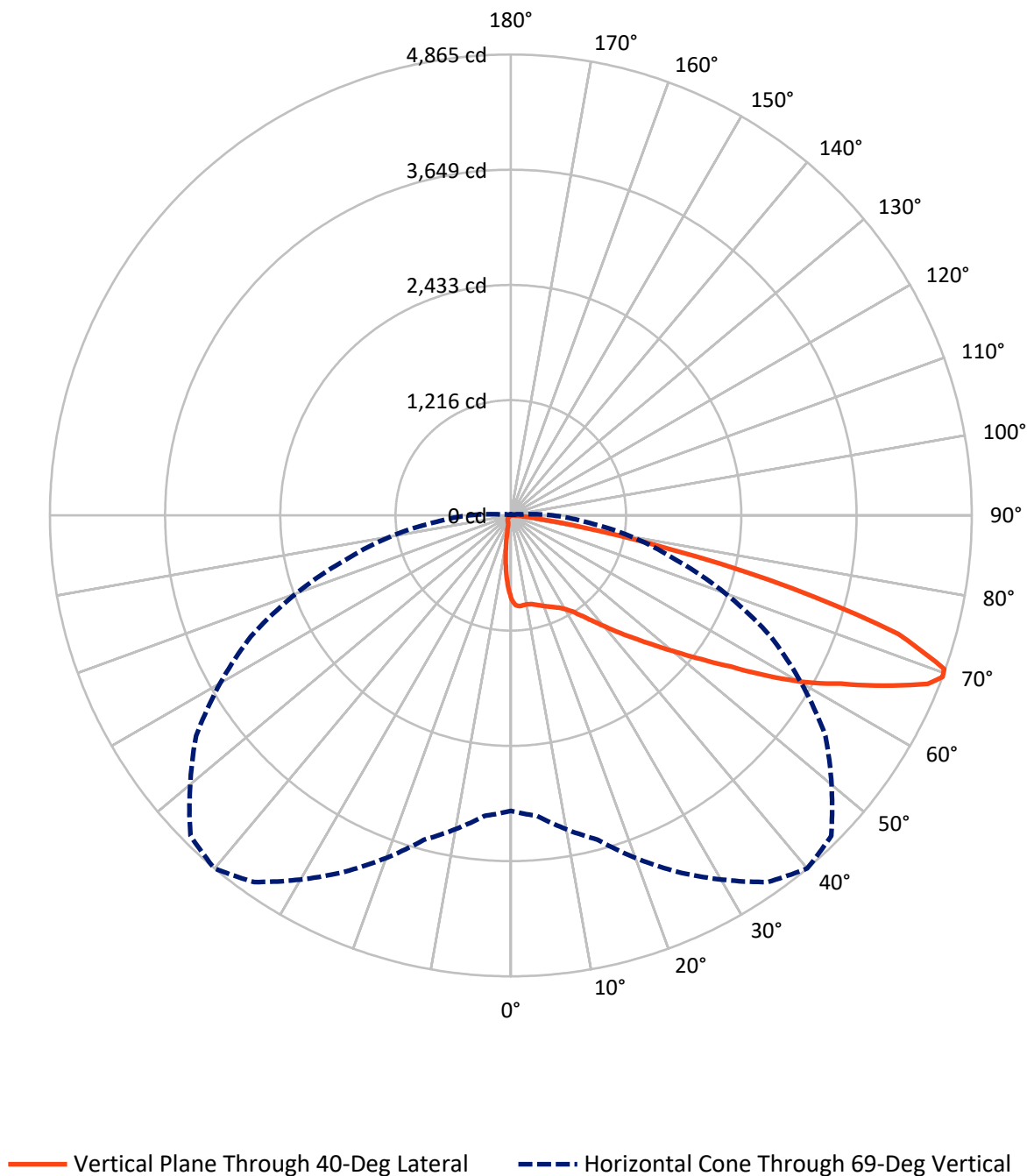


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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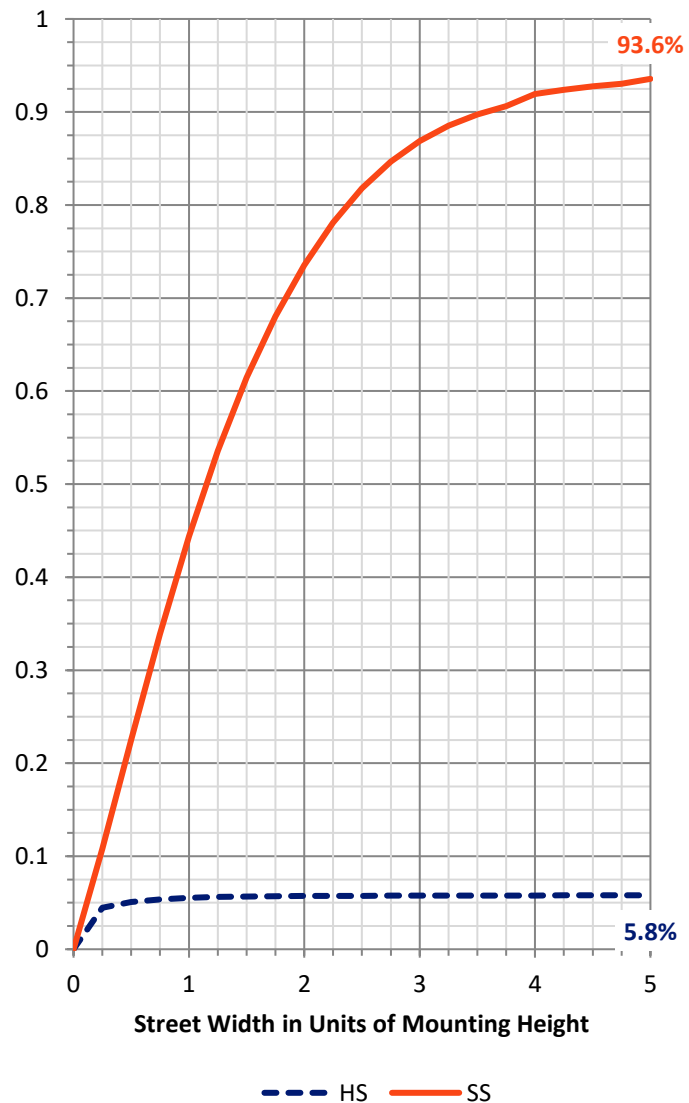
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.4	0.0	346.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5574.4	0.0	5574.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	5920.8	0.0	5920.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.2
10°-20°	176.4	3.0
20°-30°	297.1	5.0
30°-40°	486.3	8.2
40°-50°	842.1	14.2
50°-60°	1326.4	22.4
60°-70°	1732.2	29.3
70°-80°	892.1	15.1
80°-90°	96.5	1.6
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°	5920.8	100.0
0°-180°	5920.8	100.0

Coefficient of Utilization



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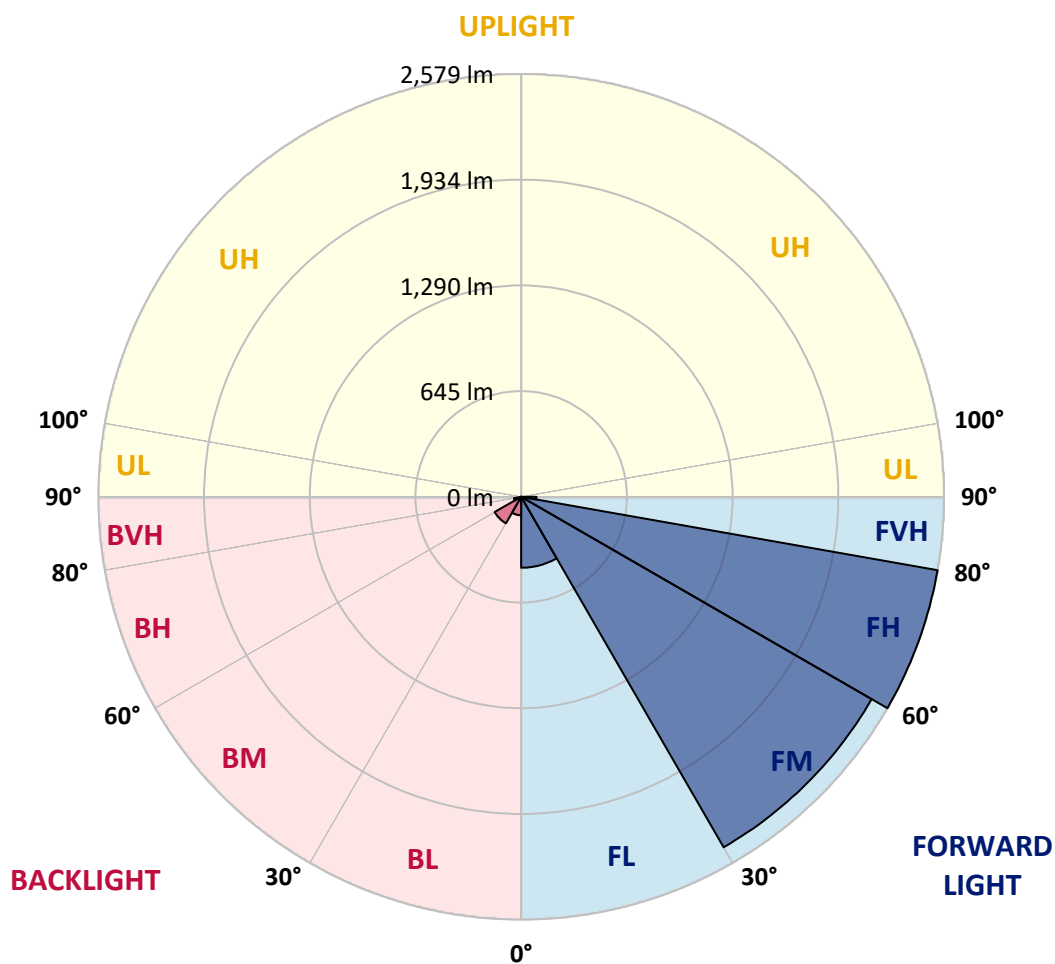
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.0	7.3			
FM	(30°-60°)	2468.6	41.7			
FH	(60°-80°)	2579.3	43.6			G2/5000
FVH	(80°-90°)	93.5	1.6			G1/100
BL	(0°-30°)	112.2	1.9	B1/500		
BM	(30°-60°)	186.2	3.1	B0/220		
BH	(60°-80°)	45.0	0.8	B0/110		G0/110
BVH	(80°-90°)	3.0	0.1			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°	85°
0°	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6
2.5°	971.3	966.0	962.8	958.6	953.3	948.7	947.0	933.9	921.6	904.7	885.3
5°	989.3	987.5	981.9	976.2	969.9	962.8	959.0	943.4	925.8	901.2	867.3
7.5°	991.0	988.9	981.9	974.1	965.3	956.8	950.1	934.6	918.4	893.4	852.2
10°	988.2	985.7	980.5	972.0	961.1	953.0	946.3	931.5	917.7	895.2	849.4
12.5°	985.0	982.6	980.1	975.9	966.4	960.7	955.1	941.0	928.6	909.6	859.6
15°	988.2	986.8	989.6	987.9	982.6	977.6	972.0	959.3	948.0	932.2	878.3
17.5°	1001.6	1001.6	1010.4	1011.5	1006.5	999.5	991.4	978.7	969.2	955.8	900.5
20°	1033.0	1031.9	1043.2	1045.3	1033.3	1022.4	1010.4	994.9	987.5	979.0	922.3
22.5°	1086.9	1082.0	1088.7	1086.5	1062.9	1046.0	1031.2	1012.2	1008.3	1004.4	946.6
25°	1157.0	1154.2	1158.8	1138.0	1096.4	1073.5	1055.9	1034.4	1034.4	1038.3	974.1
27.5°	1258.9	1248.3	1232.8	1196.1	1133.8	1104.5	1085.5	1062.6	1068.6	1083.0	1010.4
30°	1363.2	1351.6	1316.0	1259.6	1179.2	1148.6	1126.4	1102.4	1116.5	1142.9	1059.0
32.5°	1466.1	1453.1	1402.7	1331.5	1244.4	1213.8	1192.3	1165.8	1189.4	1233.9	1130.2
35°	1565.8	1554.2	1496.1	1412.2	1331.1	1305.7	1286.0	1263.1	1293.4	1355.4	1230.7
37.5°	1677.9	1665.2	1594.4	1503.5	1436.5	1418.2	1403.7	1380.8	1433.7	1524.6	1370.6
40°	1815.7	1794.2	1698.7	1608.1	1558.4	1549.6	1539.8	1536.6	1618.7	1744.5	1557.0
42.5°	1973.6	1938.4	1808.0	1718.4	1692.4	1698.7	1696.2	1710.3	1850.2	2018.0	1784.0
45°	2131.5	2086.0	1929.5	1836.2	1839.7	1861.9	1875.6	1932.0	2140.3	2331.7	2028.2
47.5°	2265.4	2220.6	2046.2	1963.4	2005.7	2049.4	2086.7	2193.5	2438.4	2640.4	2218.2
50°	2379.9	2337.7	2169.9	2103.3	2198.4	2268.9	2329.5	2487.8	2759.2	2875.5	2351.4
52.5°	2473.7	2445.5	2298.2	2263.6	2418.7	2522.0	2610.8	2800.4	3043.2	3066.5	2455.0
55°	2565.0	2544.9	2436.0	2454.3	2677.4	2818.0	2930.4	3132.0	3287.8	3225.8	2554.4
57.5°	2670.0	2651.7	2593.2	2696.1	3017.5	3194.4	3317.1	3426.0	3503.1	3388.6	2648.1
60°	2777.1	2766.6	2768.0	2964.6	3408.0	3577.8	3645.5	3673.7	3714.6	3541.9	2653.4
62.5°	2879.3	2899.4	2967.8	3263.5	3781.9	3912.3	3946.5	3974.3	3926.4	3566.2	2451.5
65°	3052.4	3085.2	3248.3	3663.5	4193.2	4332.8	4368.0	4272.5	3959.9	3251.9	1994.0
67.5°	3137.0	3196.9	3488.0	4036.4	4592.1	4747.2	4734.2	4291.9	3553.5	2479.7	1279.7
69°	3119.3	3183.1	3543.3	4150.5	4724.7	4865.3	4782.4	4054.7	3027.4	1796.3	785.6
70°	3049.6	3114.1	3514.8	4146.3	4741.6	4852.9	4692.9	3761.8	2559.7	1313.5	491.3
72.5°	2546.6	2602.3	3120.4	3747.7	4368.0	4277.4	3926.0	2606.2	1247.2	357.7	110.7
75°	1567.6	1598.6	2239.0	2823.3	3299.1	3066.5	2615.7	1296.6	371.8	101.1	61.3
77.5°	828.2	842.3	1225.7	1664.2	2091.3	1730.4	1340.6	505.7	171.3	63.4	44.4
80°	489.5	500.1	660.1	760.9	905.0	756.0	536.0	310.5	122.6	39.8	39.5
82.5°	280.2	286.9	478.6	422.9	356.7	304.5	266.8	294.3	73.7	26.8	40.9
85°	102.9	104.3	269.3	321.8	212.2	126.2	132.5	243.9	19.7	16.9	32.1
87.5°	47.9	46.9	138.5	197.0	124.1	80.0	103.3	53.6	7.8	10.9	8.8
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6
2.5°	874.0	861.0	837.4	813.1	788.4	769.4	750.7	735.9	730.9	721.8	722.5
5°	847.2	823.3	773.9	723.9	671.7	628.7	588.2	555.4	539.6	523.4	523.4
7.5°	824.0	789.1	711.9	630.5	546.3	475.4	411.6	363.7	337.3	316.1	315.8
10°	815.2	767.9	660.1	543.4	426.1	329.5	253.7	205.1	180.1	163.9	163.2
12.5°	819.0	760.5	620.3	463.1	315.8	211.8	147.0	115.6	105.0	100.1	100.1
15°	830.3	758.4	580.4	384.5	223.1	132.5	97.6	89.2	88.5	88.5	88.5
17.5°	844.1	759.1	539.6	308.0	151.9	94.8	84.2	83.2	83.9	83.9	83.9
20°	858.2	759.5	495.5	237.2	107.1	82.5	79.3	78.9	79.6	79.6	80.0
22.5°	875.4	761.2	451.5	177.3	88.5	77.9	75.4	75.4	75.8	75.8	75.4
25°	895.2	764.8	405.6	131.5	80.7	74.7	72.6	72.2	72.6	72.2	71.9
27.5°	919.8	769.7	354.5	102.9	77.2	71.5	69.8	69.8	69.4	69.1	68.7
30°	950.9	775.3	297.1	87.4	73.7	68.7	67.0	66.6	66.3	65.6	65.6
32.5°	998.1	787.7	240.4	79.3	69.8	64.8	63.4	63.4	62.7	62.0	61.7
35°	1070.7	812.0	189.6	74.4	65.6	60.6	58.9	58.9	58.2	57.8	57.4
37.5°	1171.1	849.0	147.3	69.8	61.3	56.0	54.3	53.9	53.2	52.5	52.2
40°	1304.7	894.8	115.9	65.6	57.1	51.5	50.0	49.3	47.9	46.9	46.9
42.5°	1472.4	947.0	94.1	61.0	52.2	47.2	46.2	45.1	42.6	41.6	41.2
45°	1648.0	993.8	79.6	55.7	47.2	43.0	42.3	40.5	37.4	36.3	36.3
47.5°	1774.5	1004.8	70.1	50.7	42.6	38.4	38.1	34.9	32.1	31.4	31.0
50°	1853.4	983.3	62.4	45.8	38.4	34.2	33.1	29.3	27.5	26.8	26.4
52.5°	1906.6	944.9	56.0	41.6	34.5	30.3	27.8	25.0	23.6	22.9	22.9
55°	1949.3	890.6	49.7	37.7	31.4	27.1	23.6	21.5	20.1	19.4	19.4
57.5°	1961.3	816.9	43.3	34.5	28.2	24.0	20.1	18.7	16.9	16.6	16.6
60°	1874.2	684.1	38.4	30.7	25.4	20.8	17.6	15.9	14.1	13.7	13.4
62.5°	1644.8	529.3	33.8	27.1	22.2	18.0	15.2	13.0	11.6	11.6	11.6
65°	1254.6	354.9	29.6	23.6	19.4	15.2	13.0	10.6	9.9	9.9	10.2
67.5°	751.0	193.1	25.4	20.1	16.6	12.7	10.9	9.2	8.8	9.2	9.2
69°	440.2	113.5	22.9	18.0	14.4	11.3	9.5	8.1	8.8	9.2	9.2
70°	271.7	76.5	21.1	16.2	13.0	10.2	8.8	7.8	8.5	8.8	8.8
72.5°	75.8	39.5	16.9	12.7	10.6	8.5	7.0	7.0	8.1	8.5	8.5
75°	49.3	29.3	13.0	9.5	8.1	6.7	6.0	6.7	7.8	8.1	8.1
77.5°	40.9	24.0	10.6	7.8	6.7	6.3	5.6	6.0	7.0	7.4	7.4
80°	37.4	16.9	8.5	7.0	6.0	5.6	5.3	4.9	6.3	6.7	6.7
82.5°	35.6	13.4	7.4	6.3	5.6	4.9	4.6	4.9	5.6	6.0	6.3
85°	22.2	8.8	6.7	6.0	4.9	4.6	4.6	4.6	5.3	5.6	5.6
87.5°	8.1	7.0	6.0	4.9	4.2	4.2	4.2	4.2	4.6	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)