

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: P193214

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23194.6 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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

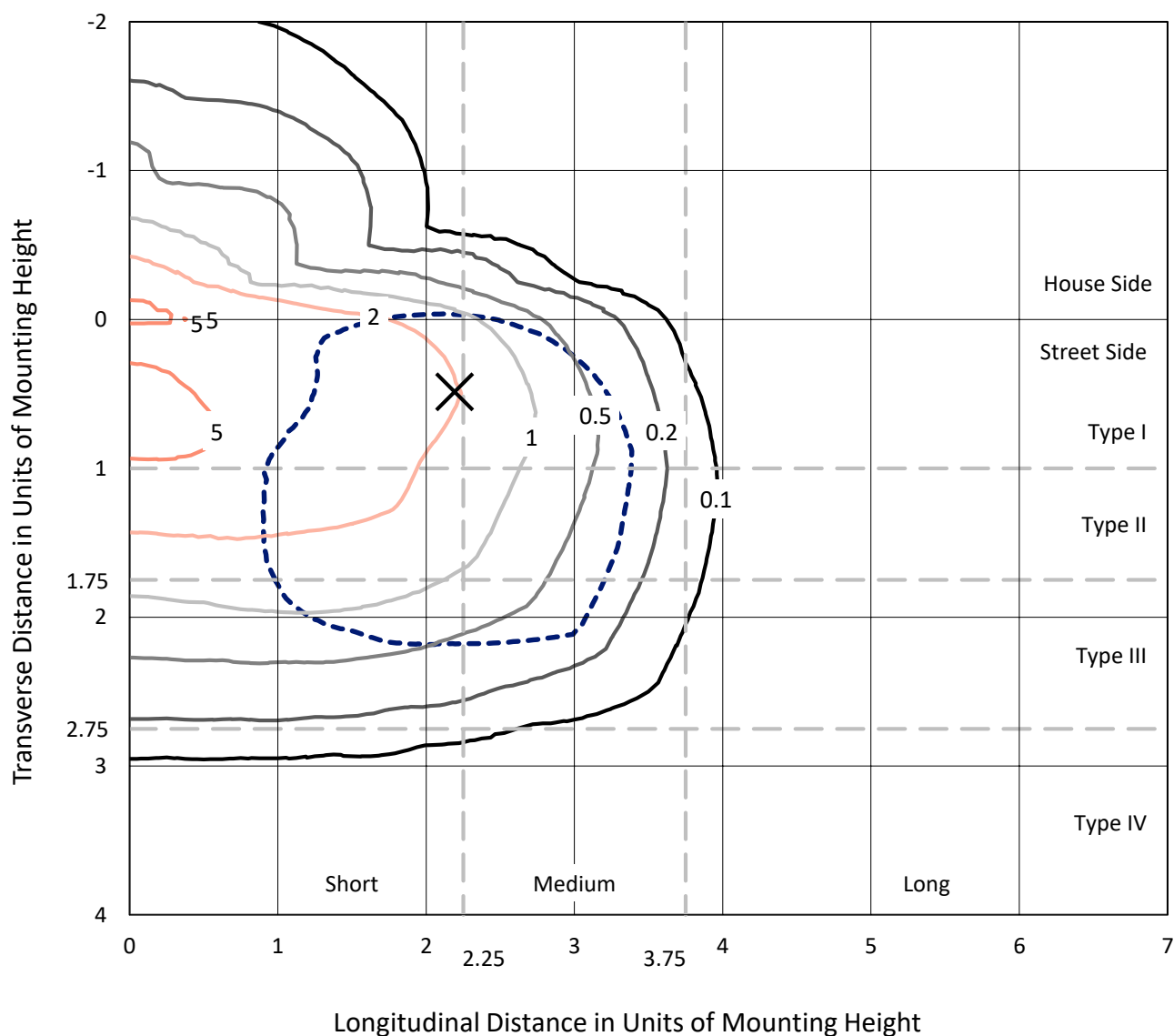


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

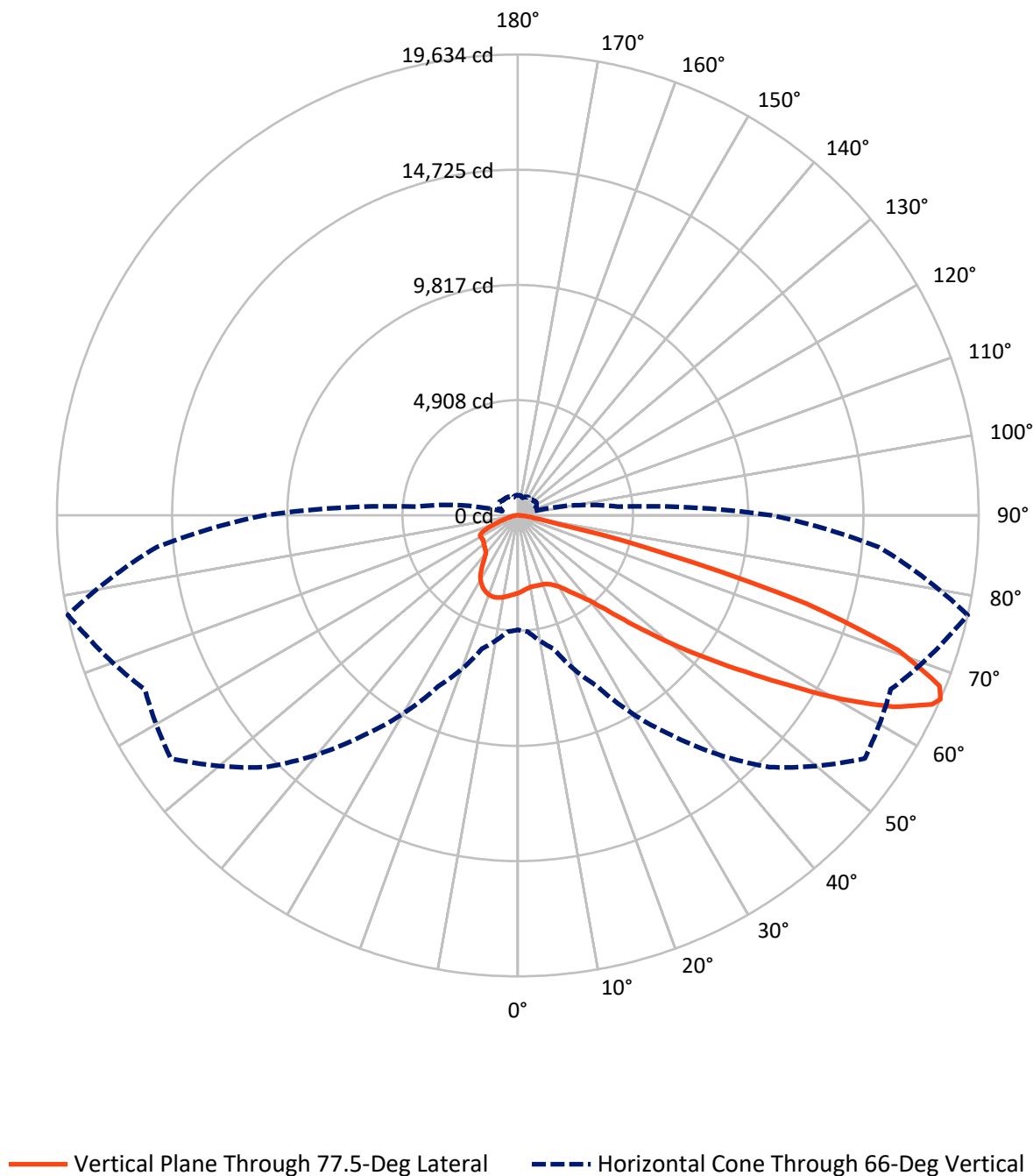


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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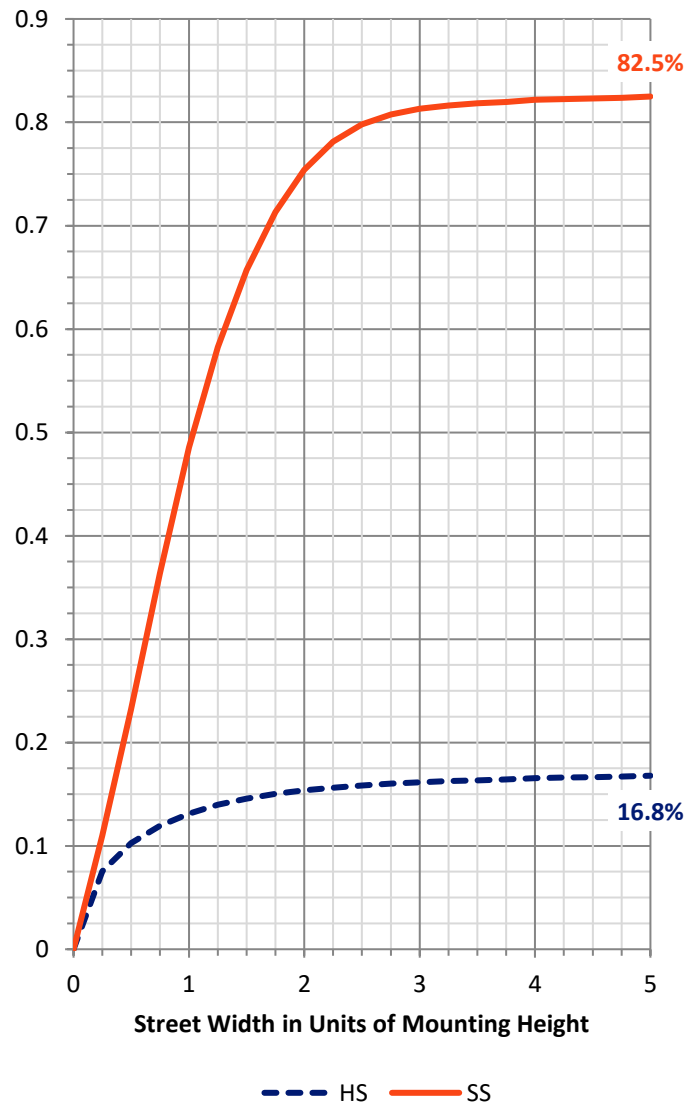
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3962.7	0.0	3962.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19232.0	0.0	19232.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	23194.6	0.0	23194.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.3
10°-20°	833.1	3.6
20°-30°	1421.8	6.1
30°-40°	2276.1	9.8
40°-50°	3516.3	15.2
50°-60°	4987.4	21.5
60°-70°	6671.8	28.8
70°-80°	2897.4	12.5
80°-90°	295.4	1.3
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°	23194.6	100.0
0°-180°	23194.6	100.0

Coefficient of Utilization



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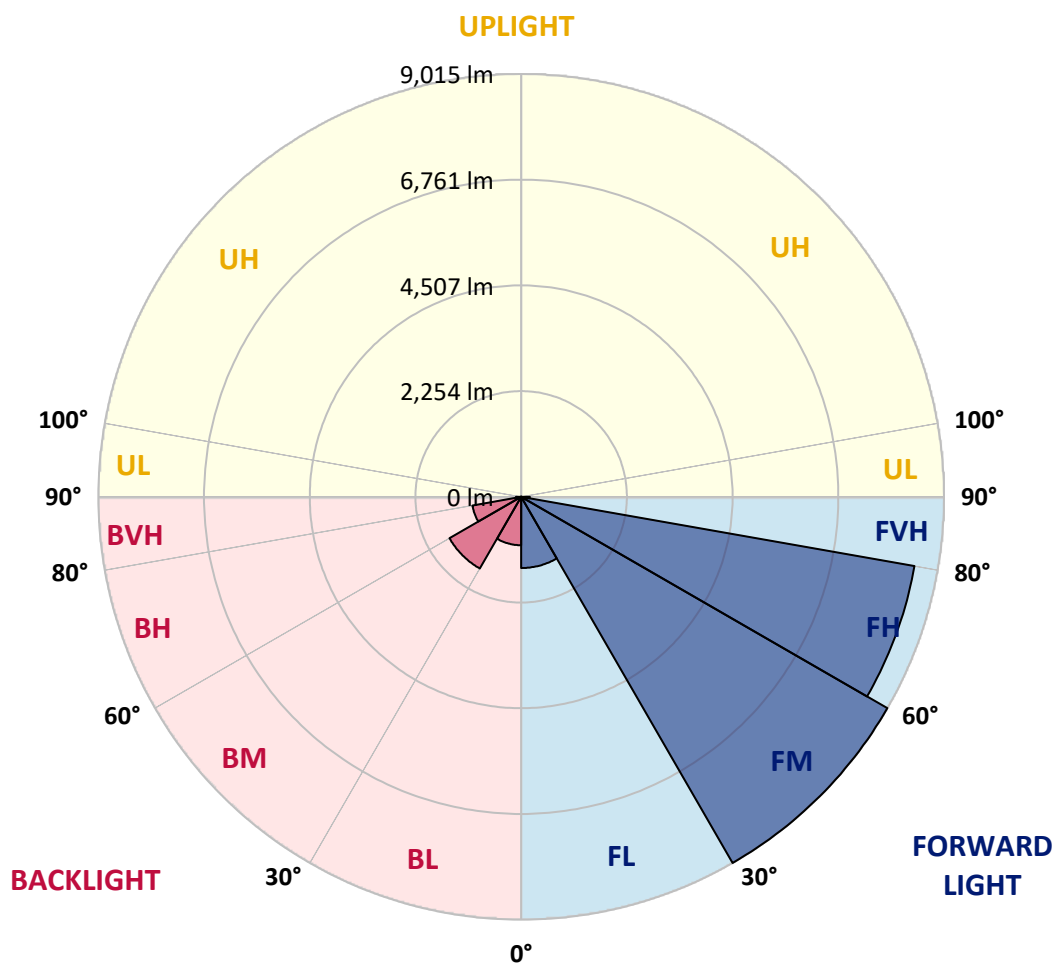
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1518.2	6.5			
FM	(30°-60°)	9014.7	38.9			
FH	(60°-80°)	8513.8	36.7			G4/12000
FVH	(80°-90°)	185.3	0.8			G2/225
BL	(0°-30°)	1032.0	4.4	B3/2500		
BM	(30°-60°)	1765.1	7.6	B2/2500		
BH	(60°-80°)	1055.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	110.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3
2.5°	2924.0	2943.7	2960.2	2975.4	3006.2	3056.5	3114.7	3161.8	3229.7	3243.0	3279.1
5°	2655.4	2655.4	2668.6	2691.6	2733.2	2808.8	2887.8	2993.0	3140.9	3176.0	3272.5
7.5°	2525.1	2526.2	2533.8	2553.5	2589.7	2658.8	2745.3	2869.1	3069.7	3127.8	3292.2
10°	2573.3	2562.3	2545.8	2536.0	2541.5	2582.1	2664.2	2802.3	3025.9	3100.4	3336.0
12.5°	2842.8	2822.0	2765.1	2689.4	2617.1	2587.5	2635.8	2770.5	3007.3	3093.7	3394.1
15°	3283.5	3274.6	3168.4	3011.6	2836.3	2689.4	2656.5	2758.5	3009.4	3101.6	3463.2
17.5°	3835.8	3823.7	3683.4	3455.6	3169.5	2883.5	2730.0	2768.3	3017.0	3114.7	3530.0
20°	4393.7	4356.3	4205.1	3933.4	3566.2	3147.5	2851.6	2793.5	3027.0	3128.8	3600.2
22.5°	4810.0	4779.4	4643.5	4379.3	3956.4	3453.2	3014.9	2837.4	3058.7	3170.6	3686.7
25°	5176.1	5178.4	5043.5	4788.2	4350.9	3777.7	3225.4	2954.7	3139.9	3256.0	3805.1
27.5°	5628.7	5602.5	5476.4	5223.2	4741.0	4105.4	3479.6	3115.7	3260.4	3377.6	3960.7
30°	6170.1	6151.6	6005.8	5718.6	5174.0	4457.2	3770.0	3303.1	3416.0	3537.7	4164.5
32.5°	6806.9	6798.1	6646.9	6277.5	5673.7	4871.5	4110.9	3550.8	3648.3	3774.4	4457.2
35°	7554.3	7555.4	7376.7	6932.9	6220.5	5353.7	4497.7	3869.8	3931.1	4062.6	4805.7
37.5°	8014.6	8070.4	8003.7	7551.0	6839.7	5892.9	4999.7	4292.8	4253.4	4386.0	5179.4
40°	8113.3	8181.3	8392.6	8162.5	7532.4	6486.8	5444.6	4699.3	4650.1	4812.3	5660.5
42.5°	7975.2	8069.4	8516.5	8678.7	8267.7	7219.0	6043.0	5303.2	5240.7	5458.8	6258.9
45°	7892.9	7963.1	8480.3	8947.2	8905.6	8046.4	6804.6	6061.6	6038.6	6324.7	6949.3
47.5°	7750.6	7814.0	8311.6	9009.7	9280.4	8804.7	7719.8	6988.8	7033.7	7408.6	7728.6
50°	7827.3	7853.4	8123.1	8850.8	9388.8	9360.4	8742.3	8062.8	8216.3	8684.3	8610.8
52.5°	7816.2	7884.1	8101.1	8590.0	9403.2	9703.5	9749.4	9260.7	9584.0	10121.0	9589.4
55°	6319.2	6444.1	7843.6	8524.2	9453.5	10039.9	10645.9	10523.2	11126.0	11751.7	10694.2
57.5°	6034.3	6113.2	6889.1	8662.3	9721.1	10682.1	11643.2	11912.9	12921.1	13647.7	12040.0
60°	5978.3	6075.9	6879.2	8831.1	10263.5	11728.8	13121.7	13595.1	15105.3	15900.9	13600.6
62.5°	5804.1	5909.3	6814.5	8809.1	11033.9	13176.4	15014.3	15383.7	17176.6	17950.3	14905.8
65°	5251.8	5350.3	6287.5	8455.1	11553.4	14721.7	17254.4	17023.2	18811.8	19393.7	15556.9
66°	4873.6	4970.1	5872.0	8038.7	11432.8	15160.0	18047.9	17530.6	19177.8	19633.7	15429.7
67.5°	4182.1	4257.8	5065.5	7106.1	10791.6	15282.8	18715.3	17912.0	19216.2	19377.2	14703.1
70°	2642.3	2664.2	3292.2	4905.4	8169.1	13254.2	17699.4	16965.1	17631.5	17195.2	12326.0
72.5°	1146.3	1138.7	1580.3	2495.5	4624.8	8893.4	14317.4	13998.4	13830.7	12835.7	8628.3
75°	637.8	646.6	820.9	1158.3	1879.6	4368.4	9365.9	8962.5	7567.4	6457.2	3912.5
77.5°	511.8	523.9	680.5	821.9	843.9	1523.4	4382.6	3566.2	2147.0	1722.8	1087.1
80°	404.4	426.3	594.1	640.0	568.8	628.0	1416.0	1132.2	849.4	779.2	563.3
82.5°	320.0	335.3	509.5	484.4	397.8	423.1	678.4	660.8	552.3	503.0	325.5
85°	230.1	258.6	418.7	364.9	260.8	284.9	450.4	431.8	316.8	258.6	143.5
87.5°	94.3	122.7	295.9	242.2	145.8	132.6	224.6	211.5	150.1	109.6	71.2
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°	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3	3305.3
2.5°	3302.1	3328.4	3362.4	3383.2	3394.1	3401.8	3413.8	3412.7	3416.0	3417.1	3421.6
5°	3324.0	3367.8	3417.1	3430.3	3430.3	3418.1	3406.1	3386.5	3378.8	3376.5	3378.8
7.5°	3380.9	3429.2	3471.9	3456.6	3423.7	3375.4	3313.1	3258.2	3228.6	3218.8	3216.6
10°	3453.2	3511.4	3529.0	3470.8	3374.4	3258.2	3134.4	3044.5	2993.0	2978.7	2974.4
12.5°	3541.0	3595.7	3571.6	3448.9	3270.2	3082.9	2911.9	2768.3	2660.9	2626.9	2624.7
15°	3637.5	3680.2	3595.7	3380.9	3114.7	2838.4	2533.8	2286.1	2152.4	2109.7	2106.4
17.5°	3727.3	3749.2	3581.5	3262.6	2885.6	2438.4	2034.1	1843.3	1797.4	1808.4	1810.5
20°	3804.0	3804.0	3533.3	3092.7	2525.1	1911.3	1656.0	1652.6	1685.6	1718.4	1724.9
22.5°	3888.4	3838.0	3448.9	2852.8	2014.3	1563.9	1526.7	1557.4	1594.6	1630.8	1636.2
25°	3992.6	3865.4	3331.7	2488.9	1583.6	1420.4	1434.6	1459.8	1478.4	1501.4	1504.7
27.5°	4108.7	3900.4	3177.2	1988.1	1374.3	1330.4	1341.3	1350.2	1348.0	1356.8	1358.9
30°	4247.9	3941.0	2965.7	1554.0	1287.7	1253.8	1234.0	1226.3	1226.3	1240.6	1246.1
32.5°	4434.2	4001.3	2662.0	1331.6	1246.1	1198.9	1135.4	1106.9	1117.8	1166.2	1177.0
35°	4639.1	4066.0	2251.1	1255.9	1237.4	1173.8	1075.1	1022.5	1023.6	1068.5	1082.8
37.5°	4862.7	4148.1	1800.6	1241.7	1257.0	1174.9	1043.3	971.0	941.4	941.4	946.8
40°	5148.8	4232.4	1457.6	1251.6	1298.6	1187.9	1026.9	930.5	847.2	849.4	853.8
42.5°	5521.3	4304.9	1273.5	1272.5	1349.2	1205.5	1025.8	876.7	804.3	853.8	898.6
45°	5935.6	4341.0	1192.3	1291.0	1389.7	1216.5	1008.3	867.9	809.9	956.8	1042.3
47.5°	6412.3	4320.2	1147.4	1297.6	1399.5	1216.5	988.6	888.9	848.3	1108.0	1207.8
50°	6935.1	4259.9	1103.6	1284.5	1396.3	1214.3	1007.2	909.6	862.5	1134.3	1203.4
52.5°	7550.0	4209.5	1057.6	1255.9	1373.2	1202.3	1029.1	900.9	817.6	1031.3	1079.5
55°	8251.3	4223.8	1006.1	1215.4	1337.0	1179.2	1021.5	865.8	770.5	908.5	938.1
57.5°	9147.8	4393.7	944.6	1163.9	1287.7	1140.8	994.0	849.4	756.2	824.2	841.8
60°	10148.3	4689.5	867.9	1112.4	1226.3	1079.5	973.2	857.0	762.7	817.6	826.3
62.5°	10882.7	4861.6	802.2	1036.8	1143.1	1011.5	946.8	866.9	780.3	840.5	838.3
65°	11082.1	4578.8	720.0	926.1	1030.2	940.2	914.1	877.9	788.0	859.3	849.4
66°	10802.7	4274.1	683.9	874.5	973.2	905.2	897.6	876.7	784.7	861.4	845.0
67.5°	10124.3	3649.5	621.3	798.9	882.3	852.7	871.3	866.9	776.0	859.3	836.2
70°	8256.8	2490.0	531.5	665.3	734.3	750.7	820.9	831.8	747.5	820.9	770.5
72.5°	5769.0	1516.7	470.2	516.1	594.1	640.0	751.8	783.6	709.1	716.7	668.5
75°	2788.1	805.6	426.3	400.0	461.4	534.9	668.5	717.9	648.8	599.5	582.0
77.5°	869.0	492.1	361.6	322.2	361.6	431.8	559.0	629.2	577.6	501.9	495.4
80°	466.9	361.6	278.4	258.6	286.0	338.6	439.4	525.0	496.5	450.4	402.2
82.5°	308.0	234.6	206.1	200.6	218.1	258.6	326.5	435.1	435.1	385.8	280.6
85°	158.9	143.5	141.4	141.4	152.3	172.1	222.5	335.3	357.3	203.9	168.8
87.5°	78.8	82.2	76.7	80.0	85.4	84.3	106.3	168.8	201.7	123.8	103.0
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)