

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: P191395

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T2R-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29563.3 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 226  
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

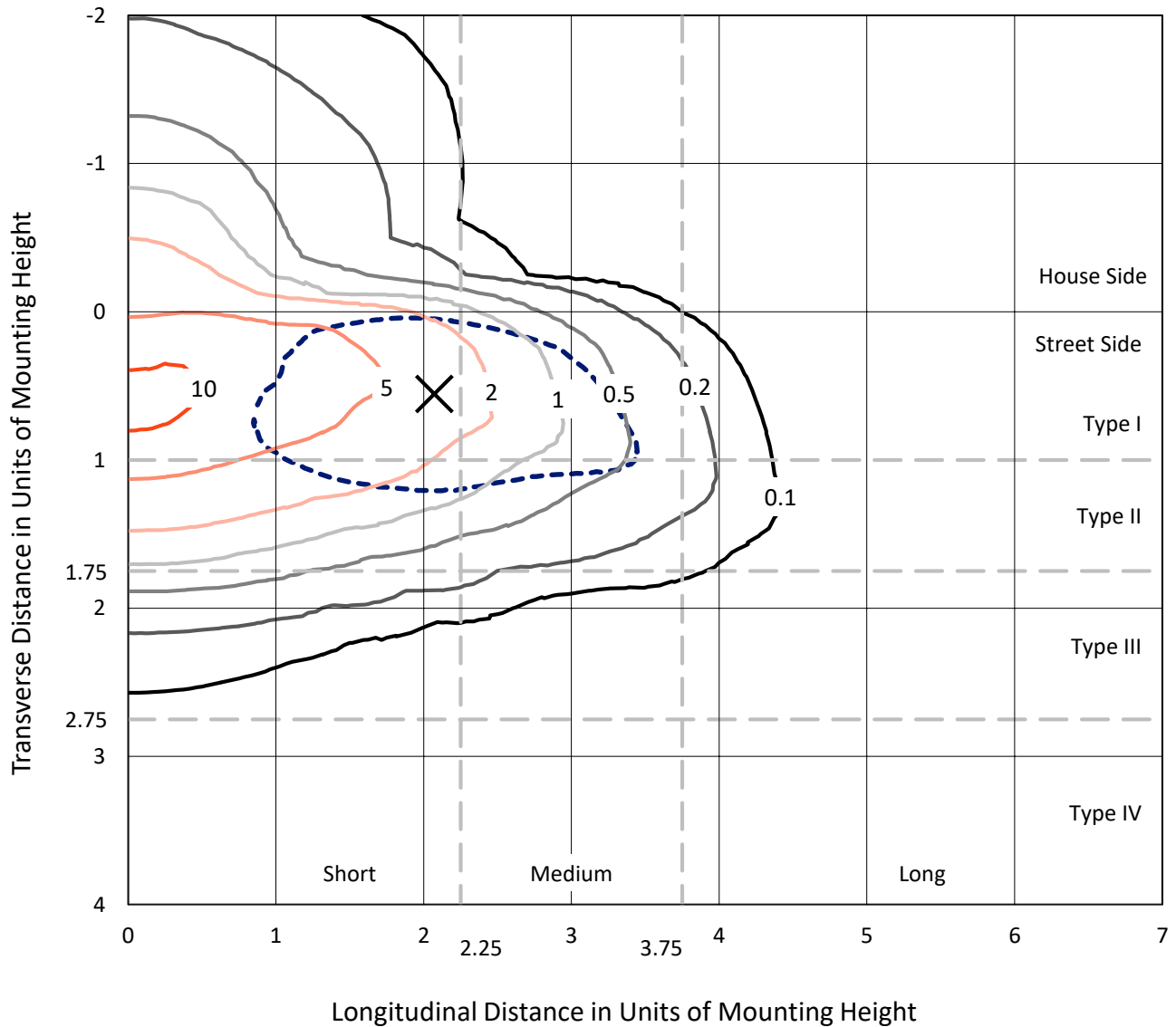


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### Iso-Footcandle Lines of Horizontal Illumination

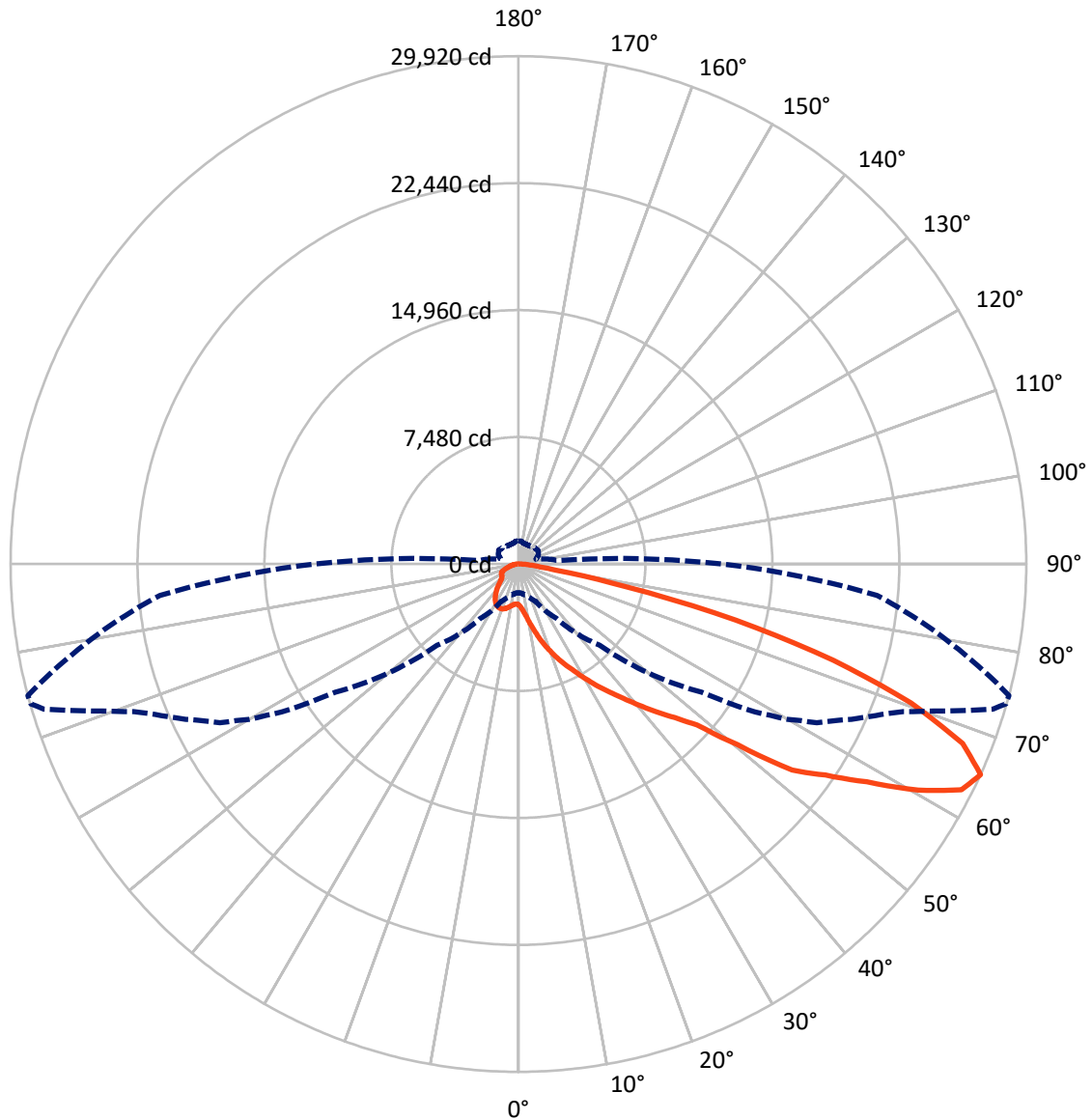
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4558.0	0.0	4558.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	25005.3	0.0	25005.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	29563.3	0.0	29563.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.0	1.0
10°-20°	1160.3	3.9
20°-30°	2380.6	8.1
30°-40°	4005.2	13.5
40°-50°	5534.1	18.7
50°-60°	6908.2	23.4
60°-70°	6216.7	21.0
70°-80°	2606.0	8.8
80°-90°	455.3	1.5
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°	29563.3	100.0
0°-180°	29563.3	100.0



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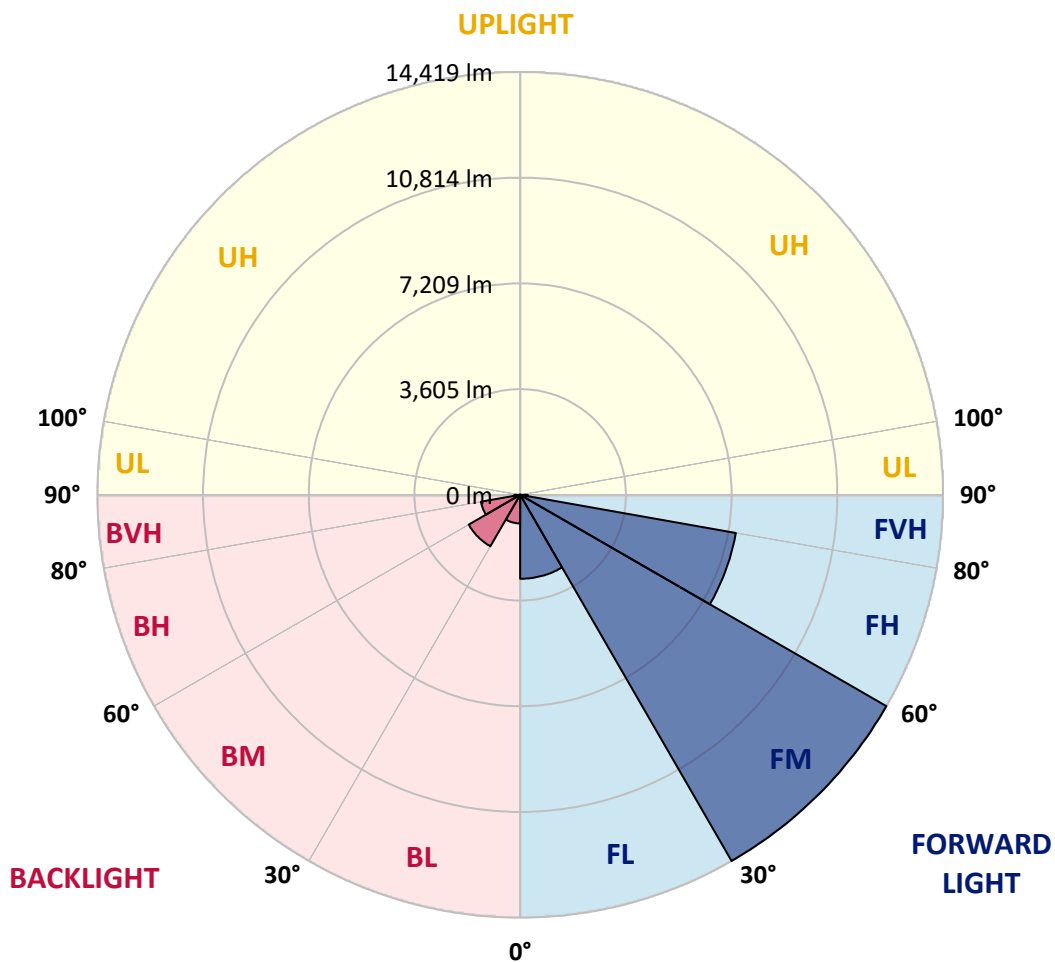
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.1	9.7			
FM (30°-60°)	14418.7	48.8			
FH (60°-80°)	7467.6	25.3			G3/7500
FVH (80°-90°)	255.9	0.9			G3/500
BL (0°-30°)	974.8	3.3	B2/1000		
BM (30°-60°)	2028.8	6.9	B2/2500		
BH (60°-80°)	1355.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	199.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6
2.5°	3050.4	3016.9	3025.3	2969.3	2900.7	2811.2	2711.8	2710.4	2711.8	2702.0	2665.6
5°	4230.1	4189.5	4174.0	4048.1	3863.5	3600.4	3314.9	3284.2	3271.5	3239.4	3165.2
7.5°	5090.6	5068.2	5044.5	4949.2	4781.4	4487.5	4104.1	4038.3	3975.4	3959.9	3876.1
10°	5646.2	5640.6	5590.1	5565.0	5460.0	5205.4	4831.7	4768.8	4700.3	4676.4	4588.2
12.5°	6085.5	6084.1	6060.4	6067.3	5976.4	5791.6	5469.8	5412.4	5362.1	5289.3	5226.4
15°	6389.1	6390.6	6425.6	6464.7	6450.7	6326.2	6024.0	5998.8	5955.4	5905.0	5830.8
17.5°	6638.2	6645.2	6681.6	6753.0	6829.9	6820.1	6580.8	6559.9	6522.1	6453.5	6414.3
20°	7200.8	7227.4	7157.4	7157.4	7165.8	7203.5	7088.8	7072.0	7018.9	6982.5	6951.7
22.5°	8150.9	8181.7	8023.5	7862.6	7704.5	7589.8	7475.0	7496.0	7459.7	7434.4	7416.2
25°	9385.1	9408.8	9152.8	8881.3	8559.4	8139.7	7855.6	7843.1	7823.4	7808.1	7799.7
27.5°	10546.4	10556.2	10314.2	9916.8	9543.2	8940.1	8241.8	8226.5	8202.6	8173.3	8148.1
30°	11539.9	11537.1	11288.1	10908.8	10508.7	9841.2	8828.2	8780.5	8710.6	8630.8	8569.3
32.5°	12400.5	12396.3	12123.5	11730.3	11310.5	10733.9	9631.3	9533.4	9424.2	9268.9	9175.2
35°	13077.8	13074.9	12817.5	12407.5	11926.2	11574.9	10552.0	10431.7	10293.1	10084.7	9940.5
37.5°	13333.9	13333.9	13189.7	12909.8	12484.5	12243.8	11574.9	11429.4	11281.1	11044.6	10882.3
40°	13184.1	13187.0	13217.6	13165.9	12958.8	12774.1	12529.2	12442.5	12315.2	12102.4	11933.1
42.5°	12681.7	12697.2	12901.5	13152.0	13255.5	13226.1	13375.8	13336.6	13247.1	13083.3	12949.0
45°	12045.1	12092.7	12316.5	12789.5	13338.1	13616.5	14085.2	14089.4	14072.6	13984.6	13880.9
47.5°	11170.5	11237.7	11533.0	12172.4	13144.9	13995.7	14805.9	14843.6	14878.6	14821.3	14773.7
50°	10009.2	10088.9	10531.1	11379.0	12751.7	14388.9	16167.4	16338.2	16497.6	16478.0	16510.2
52.5°	8765.2	8859.0	9400.4	10345.0	12075.8	14479.9	17037.8	17316.2	17594.7	17822.8	18064.8
55°	7642.9	7592.5	8134.1	9129.0	10964.8	14069.9	17820.0	18155.8	18466.4	18746.3	19034.6
57.5°	6121.8	6204.5	6747.4	7731.1	9494.2	12912.6	18358.7	18849.8	19296.2	19759.4	20168.0
60°	4474.9	4557.5	5146.6	6145.7	7897.6	11157.9	17947.3	18691.8	19406.8	20116.2	20670.4
62.5°	2702.0	2763.6	3282.8	4234.3	6089.7	9077.2	16114.2	17091.0	18143.2	18991.2	19840.5
65°	1681.9	1716.9	1908.6	2432.0	3911.0	6776.7	13165.9	14230.8	15364.2	16440.3	17323.3
67.5°	1376.9	1389.5	1424.5	1536.5	2147.9	4418.9	9799.3	10742.3	11765.3	12806.3	13788.6
70°	1238.4	1230.0	1230.0	1237.0	1376.9	2376.0	6415.7	7030.0	7882.2	8787.6	9685.9
72.5°	1118.0	1109.6	1094.3	1073.3	1123.6	1449.6	3316.3	3779.5	4393.8	5198.3	6058.9
75°	1004.6	993.5	975.3	948.7	983.7	1094.3	1592.4	1786.9	2086.3	2514.5	2994.5
77.5°	887.1	873.2	856.4	836.8	881.6	850.8	933.3	1003.3	1118.0	1255.2	1435.7
80°	754.2	741.6	736.0	726.2	779.4	647.8	659.1	702.5	769.6	843.7	927.7
82.5°	590.5	590.5	612.8	617.0	675.9	466.0	492.6	530.3	565.3	604.5	643.6
85°	389.0	391.8	467.4	496.7	533.2	313.4	369.4	382.0	410.0	432.4	449.2
87.5°	121.7	131.6	285.5	316.2	306.5	177.7	226.7	232.3	251.9	267.3	281.2
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6
2.5°	2665.6	2648.8	2633.5	2632.1	2620.9	2605.5	2611.1	2587.2	2588.7	2576.1	2562.1
5°	3134.4	3123.2	3067.2	3051.9	3009.8	2983.3	2979.1	2923.1	2916.1	2883.9	2848.9
7.5°	3808.9	3772.4	3694.1	3656.3	3585.0	3531.8	3506.6	3432.4	3396.1	3312.1	3274.4
10°	4515.5	4469.4	4372.8	4319.6	4251.1	4165.7	4119.5	4011.8	3969.8	3892.8	3800.5
12.5°	5170.4	5124.2	5024.8	4984.2	4893.3	4802.3	4752.0	4630.3	4575.7	4452.5	4379.8
15°	5776.3	5730.1	5643.3	5601.4	5510.4	5436.3	5369.1	5248.8	5184.4	5069.6	4974.5
17.5°	6364.0	6315.0	6239.4	6201.6	6113.5	6038.0	5965.1	5851.8	5786.1	5671.3	5585.9
20°	6909.7	6873.3	6818.8	6768.4	6680.2	6611.6	6524.9	6426.9	6331.8	6247.9	6166.7
22.5°	7385.5	7371.5	7312.7	7290.3	7214.8	7156.0	7080.5	6983.9	6915.2	6809.0	6733.4
25°	7795.4	7791.2	7763.3	7756.2	7703.1	7647.2	7630.3	7550.6	7487.6	7393.9	7315.5
27.5°	8148.1	8152.3	8145.2	8164.9	8150.9	8125.7	8127.0	8100.5	8064.1	7985.8	7917.2
30°	8539.9	8517.5	8530.1	8558.1	8566.5	8569.3	8615.4	8630.8	8628.0	8576.2	8542.7
32.5°	9094.0	9040.8	8991.8	8987.6	9015.7	9026.8	9105.2	9145.8	9180.8	9193.4	9198.9
35°	9800.6	9694.3	9592.1	9537.6	9490.0	9502.6	9558.6	9624.3	9701.3	9754.4	9817.5
37.5°	10690.6	10560.4	10380.0	10251.2	10219.0	10149.1	10185.4	10237.2	10312.8	10395.3	10504.5
40°	11769.5	11572.1	11369.3	11198.5	11106.2	10977.4	10976.1	10966.2	11012.4	11089.4	11243.3
42.5°	12807.8	12632.8	12417.3	12238.2	12117.9	11945.7	11910.7	11819.8	11840.8	11908.0	12057.7
45°	13780.2	13636.0	13504.6	13297.4	13195.3	13009.2	12950.5	12842.7	12782.5	12813.3	12963.0
47.5°	14721.9	14629.6	14492.5	14358.1	14279.8	14113.2	14037.6	13960.7	13883.8	13880.9	14037.6
50°	16557.8	16508.8	16346.5	16206.6	16244.4	16040.1	16052.7	15845.6	15939.3	15950.5	16279.3
52.5°	18283.1	18453.8	18574.2	18721.1	18816.3	18834.5	18897.4	18991.2	19104.5	19328.5	19633.5
55°	19271.1	19485.2	19609.7	19721.6	19906.3	19945.5	20050.4	20174.9	20274.3	20526.2	20785.0
57.5°	20445.0	20842.4	21035.6	21213.2	21462.3	21557.5	21732.4	21868.1	21996.8	22294.9	22608.3
60°	21168.4	21652.6	22045.8	22327.1	22639.1	22863.1	23127.5	23340.2	23642.4	23999.2	24466.6
62.5°	20593.3	21304.2	21826.1	22308.9	22732.8	23161.0	23540.2	23937.7	24396.7	24936.8	25661.5
65°	18302.7	19026.2	19920.3	20421.3	20982.4	21642.9	22219.3	22863.1	23488.5	24274.9	25346.8
67.5°	14734.5	15575.6	16580.2	17085.3	17730.4	18467.8	19114.3	19900.7	20631.2	21584.1	22909.2
70°	10620.6	11707.9	12553.0	13080.6	13833.4	14593.2	15217.3	16132.4	16736.9	17713.6	19083.6
72.5°	6725.0	7582.7	8618.3	9282.9	9951.8	10721.3	11359.5	12148.7	12712.5	13602.5	14843.6
75°	3615.7	4248.2	5157.8	5788.9	6505.3	7163.0	7910.2	8439.1	8856.1	9560.0	10567.5
77.5°	1694.5	2079.4	2539.7	3025.3	3510.9	4017.3	4509.9	4938.1	5117.2	5520.3	6114.9
80°	1028.5	1153.0	1287.4	1437.0	1640.0	1803.7	2020.5	2177.2	2188.5	2315.9	2497.7
82.5°	687.0	733.3	773.8	811.6	863.4	904.0	950.1	1004.6	1027.0	1056.5	1115.2
85°	468.7	491.1	499.5	523.3	517.7	531.7	549.9	568.1	577.9	576.5	603.1
87.5°	288.3	299.4	305.0	310.7	306.5	300.8	309.2	319.1	321.8	313.4	316.2
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6
2.5°	2564.9	2552.3	2539.7	2531.3	2528.5	2454.4	2422.1	2401.2	2356.4	2320.1	2290.6
5°	2829.4	2802.8	2781.8	2756.6	2742.6	2555.1	2486.6	2438.9	2360.6	2314.4	2272.5
7.5°	3254.7	3180.6	3137.2	3088.2	3046.2	2707.6	2594.3	2520.1	2411.0	2349.4	2301.8
10°	3737.6	3660.5	3592.0	3516.4	3450.6	2910.5	2745.4	2630.6	2486.6	2406.8	2343.8
12.5°	4276.2	4200.6	4113.9	4017.3	3933.5	3168.0	2938.5	2774.8	2577.5	2471.1	2383.0
15°	4912.9	4779.9	4675.0	4563.1	4465.2	3475.9	3163.8	2937.1	2674.0	2530.0	2412.4
17.5°	5504.8	5364.9	5222.2	5124.2	5010.8	3821.4	3390.5	3102.2	2753.8	2567.7	2417.9
20°	6082.7	5930.1	5807.1	5675.5	5556.6	4179.7	3632.6	3247.8	2805.5	2569.1	2383.0
22.5°	6592.1	6496.9	6359.8	6217.1	6096.7	4537.9	3859.3	3370.9	2825.2	2536.9	2321.4
25°	7171.4	7070.6	6902.7	6782.4	6648.1	4903.1	4081.8	3466.1	2813.9	2476.8	2226.2
27.5°	7789.9	7677.9	7505.8	7379.9	7217.5	5282.3	4286.1	3534.6	2772.0	2378.8	2098.9
30°	8434.9	8332.8	8163.5	8036.1	7872.4	5683.9	4514.1	3580.7	2688.0	2243.0	1950.6
32.5°	9127.6	9042.2	8874.3	8741.3	8566.5	6119.1	4726.9	3594.8	2560.8	2082.1	1793.8
35°	9785.2	9726.4	9585.2	9460.6	9278.7	6530.5	4952.1	3587.8	2409.6	1905.9	1651.1
37.5°	10525.4	10490.5	10420.5	10262.4	10040.0	7088.8	5222.2	3558.4	2224.9	1730.9	1542.0
40°	11314.7	11317.4	11241.9	11134.2	10927.1	7766.0	5544.0	3501.0	2023.4	1577.0	1442.7
42.5°	12150.0	12193.4	12157.1	12080.0	11881.4	8449.0	5928.8	3431.1	1827.5	1427.3	1344.7
45°	13107.2	13160.4	13216.3	13103.0	12909.8	9350.1	6435.4	3340.1	1616.2	1302.7	1277.6
47.5°	14211.2	14295.1	14345.6	14346.9	14153.9	10466.7	7258.1	3285.5	1428.7	1218.7	1245.3
50°	16541.0	16567.6	16686.6	16893.6	16745.3	13051.2	8695.2	3252.0	1301.3	1167.0	1221.6
52.5°	19897.9	20190.4	20396.1	20382.1	20180.6	14692.5	9487.2	3078.5	1225.8	1147.4	1210.4
55°	21265.0	21630.2	22010.8	22111.6	21954.9	16093.3	10235.9	2905.0	1189.4	1161.5	1214.5
57.5°	23086.9	23702.6	24224.5	24444.2	24217.5	17885.7	11221.0	2813.9	1178.2	1199.2	1241.1
60°	25215.2	25976.4	26662.1	27056.6	27056.6	19945.5	12242.4	2776.2	1162.8	1255.2	1286.0
62.5°	26582.3	27700.4	28735.8	29313.8	29296.9	21379.8	12695.7	2647.5	1127.8	1294.3	1347.5
65°	26587.9	27917.2	29236.8	29886.0	29919.7	21203.4	11947.1	2338.3	1063.5	1300.0	1409.1
67.5°	24371.4	25788.9	27326.7	28053.0	28220.9	19518.7	10342.1	1922.6	958.5	1244.0	1431.5
70°	20583.6	21967.5	23537.5	24251.1	24549.2	16639.0	8330.0	1481.8	824.2	1120.8	1385.3
72.5°	16216.3	17573.7	18666.5	19188.5	19420.7	12718.1	6065.9	1119.4	675.9	944.5	1260.8
75°	11481.2	12499.8	13080.6	13196.7	13233.1	7666.7	3685.7	832.6	556.9	734.6	1064.9
77.5°	6480.1	6916.7	6869.1	6920.9	6489.9	2959.5	1605.0	596.1	459.0	558.3	825.6
80°	2530.0	2608.3	2450.2	2401.2	2202.5	1101.2	708.1	415.6	366.6	422.6	577.9
82.5°	1115.2	1151.6	1118.0	1126.5	1077.5	568.1	424.0	300.8	279.9	309.2	383.4
85°	614.3	625.4	622.7	640.9	614.3	226.7	201.5	184.7	195.9	209.9	246.2
87.5°	299.4	302.3	292.5	307.8	298.1	114.8	99.3	105.0	114.8	117.5	117.5
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):**

	135°	145°	155°	165°	175°	180°
0°	2402.6	2402.6	2402.6	2402.6	2402.6	2402.6
2.5°	2269.6	2258.5	2259.9	2257.0	2251.4	2251.4
5°	2250.1	2238.8	2238.8	2236.1	2229.1	2230.4
7.5°	2269.6	2251.4	2244.5	2234.6	2224.9	2224.9
10°	2292.0	2259.9	2240.3	2223.5	2210.9	2210.9
12.5°	2308.8	2258.5	2226.2	2203.8	2191.3	2191.3
15°	2314.4	2248.7	2203.8	2177.2	2166.1	2164.7
17.5°	2296.2	2210.9	2156.3	2125.5	2111.6	2107.4
20°	2240.3	2142.3	2076.6	2041.6	2022.0	2015.0
22.5°	2156.3	2044.4	1967.4	1931.0	1905.9	1901.7
25°	2038.7	1918.4	1842.8	1807.9	1793.8	1789.7
27.5°	1901.7	1789.7	1725.3	1702.9	1690.3	1689.0
30°	1771.5	1676.3	1628.7	1612.0	1596.6	1593.8
32.5°	1649.7	1589.6	1571.4	1547.6	1511.2	1507.0
35°	1563.0	1557.4	1544.9	1491.7	1446.9	1434.3
37.5°	1509.9	1561.6	1497.2	1392.3	1360.1	1357.4
40°	1479.1	1518.3	1407.7	1371.3	1374.1	1371.3
42.5°	1409.1	1449.6	1410.4	1393.7	1404.9	1407.7
45°	1339.1	1383.8	1431.5	1420.3	1446.9	1446.9
47.5°	1300.0	1367.1	1430.1	1430.1	1469.3	1483.3
50°	1255.2	1353.2	1407.7	1427.3	1458.0	1446.9
52.5°	1252.4	1329.3	1375.5	1410.4	1424.5	1411.9
55°	1256.6	1309.8	1343.3	1382.5	1399.3	1400.7
57.5°	1262.1	1298.5	1320.9	1339.1	1389.5	1389.5
60°	1276.1	1288.7	1301.3	1311.1	1376.9	1378.3
62.5°	1298.5	1279.0	1276.1	1286.0	1369.9	1364.3
65°	1333.5	1265.0	1244.0	1253.7	1362.9	1346.1
67.5°	1381.1	1244.0	1203.4	1210.4	1357.4	1320.9
70°	1424.5	1210.4	1153.0	1146.0	1304.2	1239.8
72.5°	1428.7	1171.2	1083.1	1062.0	1133.4	1071.8
75°	1358.7	1144.6	1006.1	944.5	936.1	927.7
77.5°	1224.4	1129.2	916.6	820.0	803.2	808.7
80°	1024.3	1071.8	808.7	694.1	785.0	775.2
82.5°	765.4	945.9	687.0	614.3	612.8	541.6
85°	425.3	737.4	559.8	460.3	320.4	310.7
87.5°	119.0	410.0	391.8	260.2	177.7	184.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)