

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: P269503

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269503  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30790.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 295  
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

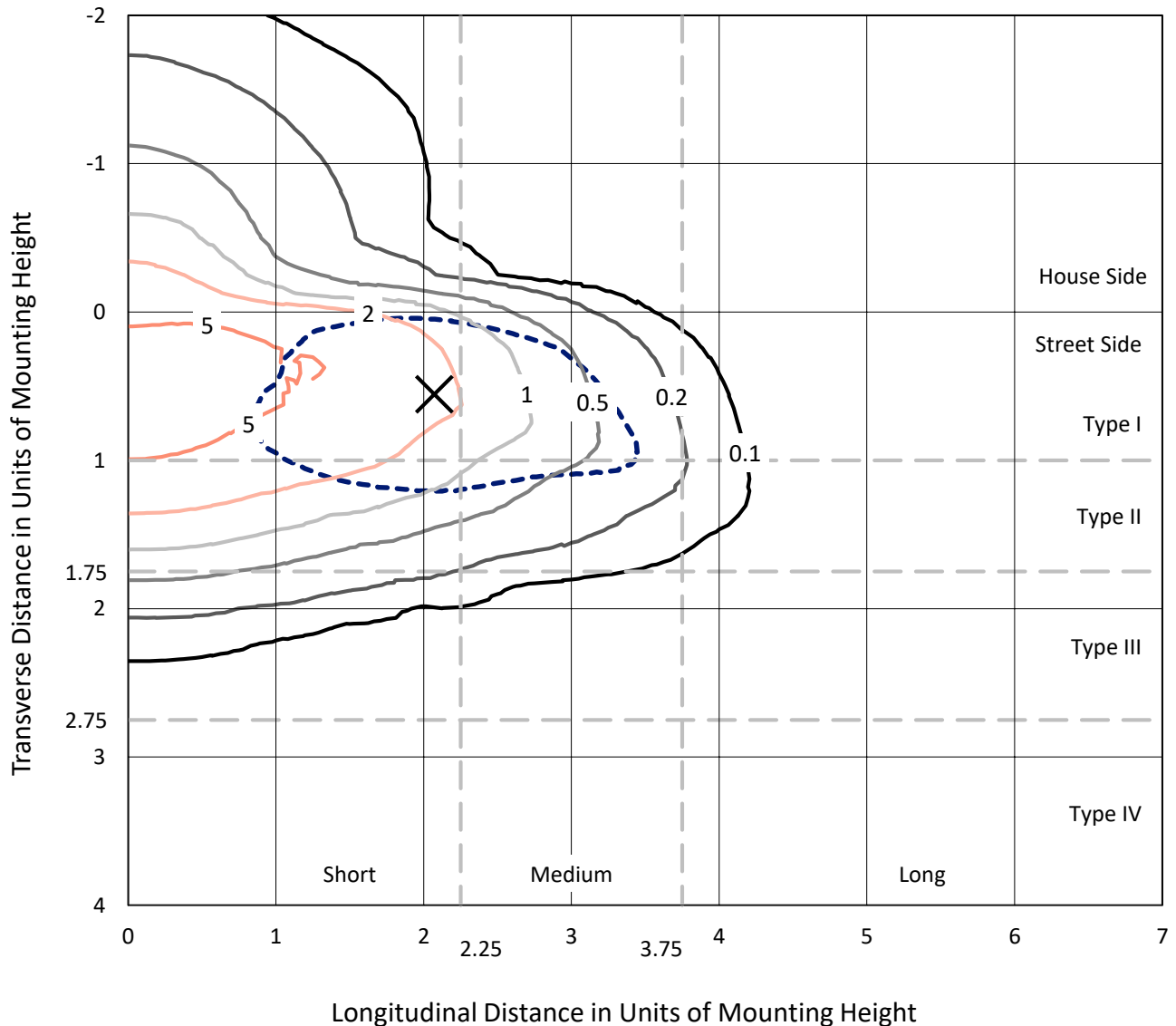


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### Iso-Footcandle Lines of Horizontal Illumination

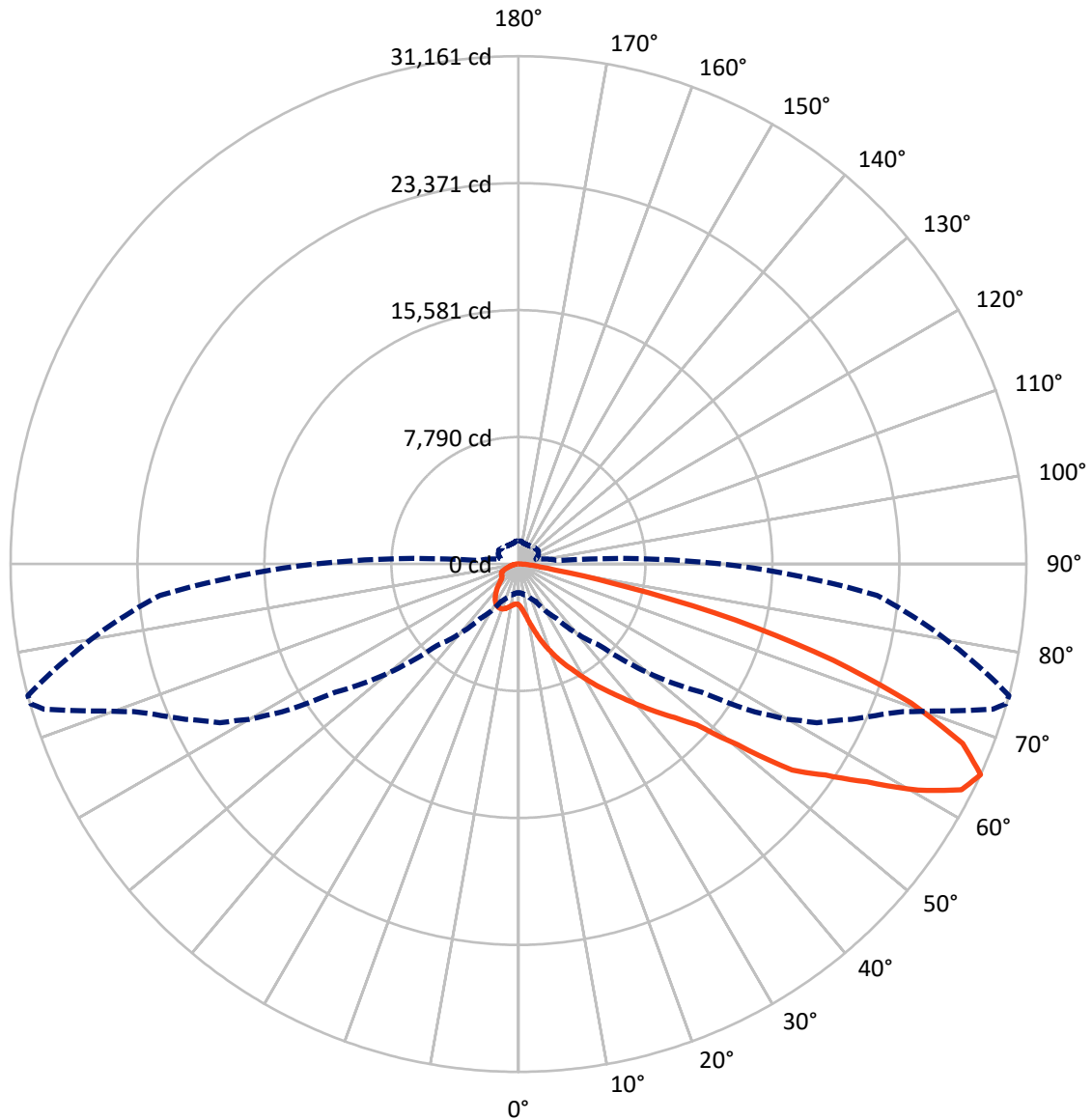
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	4747.1	0.0	4747.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	26043.0	0.0	26043.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	30790.1	0.0	30790.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.3	1.0
10°-20°	1208.5	3.9
20°-30°	2479.4	8.1
30°-40°	4171.4	13.5
40°-50°	5763.7	18.7
50°-60°	7194.9	23.4
60°-70°	6474.6	21.0
70°-80°	2714.1	8.8
80°-90°	474.2	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°	30790.1	100.0
0°-180°	30790.1	100.0



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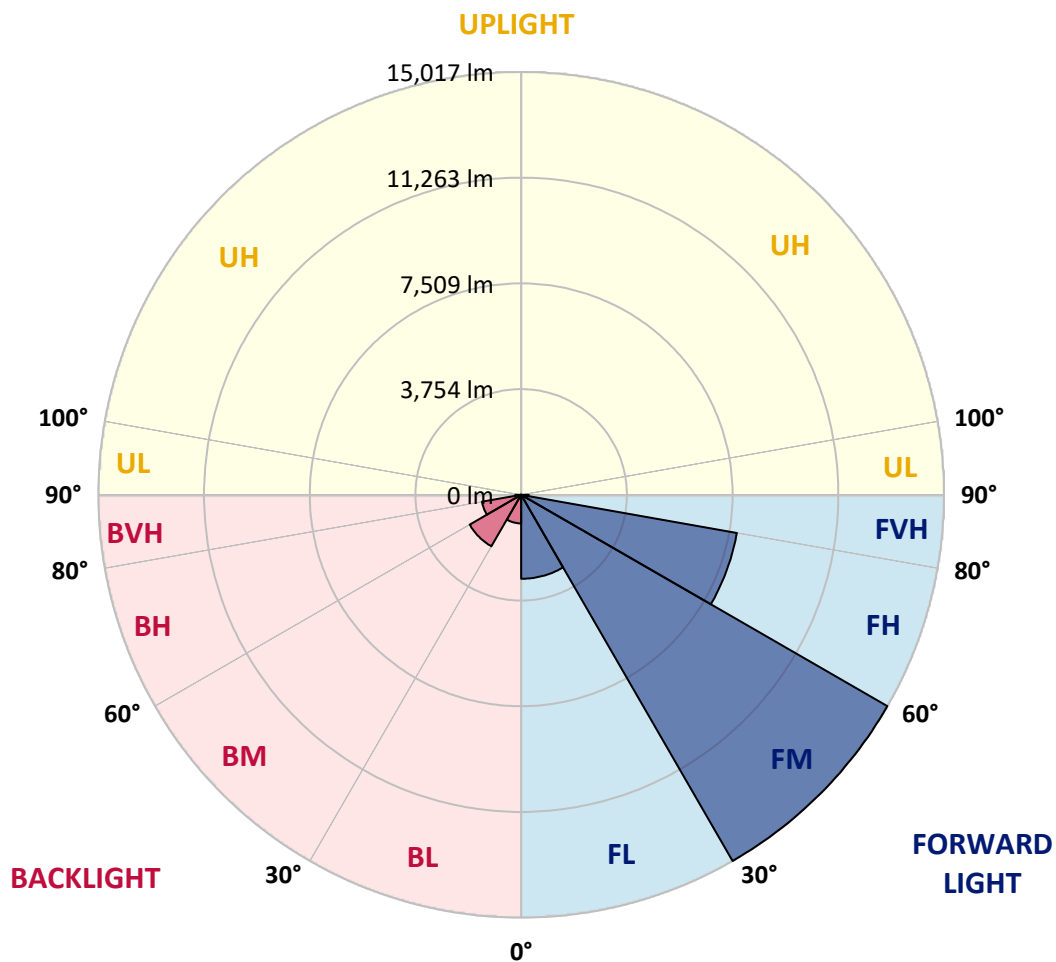
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.9	9.7			
FM (30°-60°)	15017.0	48.8			
FH (60°-80°)	7777.5	25.3			G4/12000
FVH (80°-90°)	266.5	0.9			G3/500
BL (0°-30°)	1015.2	3.3	B3/2500		
BM (30°-60°)	2113.0	6.9	B2/2500		
BH (60°-80°)	1411.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	207.6	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	3177.0	3142.0	3150.9	3092.5	3021.1	2927.8	2824.4	2823.0	2824.4	2814.2	2776.2
5°	4405.6	4363.3	4347.3	4216.1	4023.8	3749.7	3452.5	3420.4	3407.4	3373.8	3296.5
7.5°	5301.8	5278.5	5253.7	5154.7	4979.8	4673.7	4274.4	4206.0	4140.4	4124.3	4036.9
10°	5880.5	5874.6	5822.2	5796.0	5686.6	5421.5	5032.2	4966.6	4895.3	4870.5	4778.7
12.5°	6338.0	6336.6	6311.9	6319.0	6224.4	6031.9	5696.8	5637.0	5584.7	5508.8	5443.2
15°	6654.3	6655.7	6692.2	6732.9	6718.5	6588.7	6273.9	6247.7	6202.4	6150.1	6072.8
17.5°	6913.6	6921.0	6958.9	7033.2	7113.4	7103.2	6854.0	6832.1	6792.8	6721.3	6680.5
20°	7499.6	7527.3	7454.3	7454.3	7463.1	7502.5	7383.0	7365.6	7310.0	7272.1	7240.2
22.5°	8489.2	8521.1	8356.6	8188.9	8024.2	7904.6	7785.3	7807.1	7769.3	7742.9	7723.9
25°	9774.5	9799.3	9532.5	9249.8	8914.7	8477.5	8181.7	8168.5	8148.0	8132.0	8123.4
27.5°	10984.0	10994.3	10742.2	10328.4	9939.1	9311.0	8583.8	8567.9	8543.1	8512.3	8486.2
30°	12018.9	12015.9	11756.5	11361.6	10944.8	10249.7	9194.4	9144.9	9072.1	8989.0	8924.8
32.5°	12915.1	12910.7	12626.5	12216.9	11779.8	11179.3	10031.0	9929.0	9815.3	9653.5	9555.9
35°	13620.5	13617.5	13349.4	12922.4	12421.0	12055.3	10990.0	10864.6	10720.4	10503.2	10353.1
37.5°	13887.2	13887.2	13737.1	13445.7	13002.5	12751.9	12055.3	11903.7	11749.2	11502.9	11333.8
40°	13731.2	13734.1	13766.2	13712.3	13496.6	13304.2	13049.1	12958.8	12826.2	12604.7	12428.3
42.5°	13208.0	13224.0	13436.8	13697.6	13805.5	13774.9	13930.8	13890.0	13796.8	13626.3	13486.3
45°	12544.9	12594.4	12827.6	13320.2	13891.5	14181.5	14669.7	14674.2	14656.7	14564.8	14457.0
47.5°	11634.0	11704.0	12011.5	12677.5	13690.3	14576.4	15420.2	15459.7	15496.0	15436.4	15386.8
50°	10424.6	10507.6	10968.0	11851.2	13280.9	14986.1	16838.3	17016.1	17182.2	17161.8	17195.4
52.5°	9128.8	9226.5	9790.4	10774.2	12577.0	15080.7	17744.8	18034.8	18324.9	18562.3	18814.6
55°	7960.2	7907.6	8471.6	9507.8	11419.9	14653.7	18559.4	18909.2	19232.7	19524.2	19824.4
57.5°	6375.9	6461.9	7027.4	8051.9	9888.2	13448.4	19120.6	19632.1	20096.9	20579.4	21004.9
60°	4660.6	4746.6	5360.1	6400.8	8225.3	11621.0	18692.0	19467.3	20212.0	20951.0	21528.2
62.5°	2814.2	2878.3	3418.9	4410.0	6342.5	9453.9	16782.9	17800.2	18896.0	19779.2	20663.8
65°	1751.8	1788.2	1987.8	2533.0	4073.4	7058.0	13712.3	14821.3	16001.8	17122.5	18042.1
67.5°	1434.1	1447.2	1483.6	1600.2	2237.0	4602.3	10205.9	11188.1	12253.5	13337.8	14360.8
70°	1289.7	1281.1	1281.1	1288.3	1434.1	2474.7	6682.0	7321.7	8209.3	9152.2	10087.8
72.5°	1164.5	1155.7	1139.7	1117.9	1170.2	1509.8	3454.0	3936.4	4576.1	5414.1	6310.4
75°	1046.3	1034.7	1015.8	988.0	1024.5	1139.7	1658.5	1861.1	2172.9	2618.9	3118.7
77.5°	923.9	909.4	891.8	871.4	918.2	886.1	972.1	1044.9	1164.5	1307.3	1495.3
80°	785.5	772.5	766.6	756.4	811.8	674.7	686.5	731.6	801.6	878.8	966.2
82.5°	615.0	615.0	638.3	642.6	703.9	485.4	513.0	552.4	588.7	629.6	670.3
85°	405.1	408.1	486.7	517.3	555.2	326.4	384.7	397.9	427.1	450.3	467.7
87.5°	126.8	137.0	297.2	329.4	319.2	185.1	236.1	242.0	262.3	278.4	292.9
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°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	2776.2	2758.8	2742.7	2741.3	2729.6	2713.6	2719.3	2694.6	2696.2	2683.0	2668.4
5°	3264.5	3252.9	3194.6	3178.6	3134.7	3107.1	3102.7	3044.4	3037.1	3003.7	2967.2
7.5°	3966.9	3929.0	3847.4	3808.1	3733.7	3678.4	3652.1	3574.9	3536.9	3449.5	3410.2
10°	4702.8	4654.7	4554.2	4498.8	4427.4	4338.5	4290.5	4178.2	4134.4	4054.4	3958.2
12.5°	5384.9	5336.8	5233.3	5191.0	5096.4	5001.7	4949.2	4822.5	4765.6	4637.3	4561.6
15°	6015.9	5967.9	5877.5	5833.9	5739.1	5661.8	5591.9	5466.5	5399.5	5280.0	5181.0
17.5°	6628.1	6577.0	6498.3	6459.1	6367.1	6288.5	6212.7	6094.7	6026.2	5906.6	5817.8
20°	7196.4	7158.6	7101.7	7049.2	6957.5	6886.0	6795.7	6693.6	6594.5	6507.1	6422.6
22.5°	7691.9	7677.4	7616.1	7592.8	7514.1	7452.9	7374.2	7273.7	7202.3	7091.5	7012.8
25°	8118.9	8114.6	8085.5	8078.1	8022.8	7964.5	7946.9	7863.9	7798.4	7700.7	7619.1
27.5°	8486.2	8490.6	8483.2	8503.6	8489.2	8462.8	8464.3	8436.6	8398.8	8317.1	8245.7
30°	8894.3	8870.9	8884.1	8913.3	8922.0	8924.8	8972.9	8989.0	8986.0	8932.1	8897.2
32.5°	9471.4	9415.9	9365.0	9360.6	9389.8	9401.4	9483.0	9525.3	9561.6	9574.9	9580.7
35°	10207.4	10096.6	9990.2	9933.4	9883.8	9896.8	9955.1	10023.6	10103.9	10159.2	10224.8
37.5°	11134.2	10998.7	10810.7	10676.5	10643.1	10570.1	10608.2	10662.1	10740.8	10826.7	10940.4
40°	12257.8	12052.3	11841.0	11663.2	11567.0	11433.0	11431.6	11421.3	11469.4	11549.6	11709.9
42.5°	13339.2	13157.0	12932.5	12746.1	12620.6	12441.4	12405.1	12310.4	12332.1	12402.1	12558.0
45°	14352.0	14201.9	14064.9	13849.3	13742.9	13549.0	13487.8	13375.7	13312.9	13345.0	13500.9
47.5°	15332.8	15236.6	15093.9	14953.9	14872.2	14698.8	14620.3	14540.1	14459.8	14457.0	14620.3
50°	17244.9	17193.9	17024.9	16879.2	16918.5	16705.7	16718.7	16503.1	16600.8	16612.4	16954.9
52.5°	19041.8	19219.6	19344.9	19498.0	19597.1	19616.0	19681.5	19779.2	19897.3	20130.5	20448.2
55°	20070.7	20293.7	20423.3	20539.9	20732.3	20773.1	20882.4	21012.2	21115.6	21378.0	21647.5
57.5°	21293.5	21707.4	21908.5	22093.5	22353.0	22452.1	22634.2	22775.5	22909.7	23220.1	23546.6
60°	22046.9	22551.1	22960.7	23253.5	23578.5	23811.7	24087.2	24308.8	24623.5	24995.1	25482.0
62.5°	21447.9	22188.2	22731.8	23234.7	23676.2	24122.1	24517.1	24931.0	25409.0	25971.5	26726.5
65°	19062.3	19815.7	20747.0	21268.7	21853.1	22540.9	23141.3	23811.7	24463.3	25282.2	26398.5
67.5°	15345.9	16221.9	17268.2	17794.3	18466.2	19234.1	19907.5	20726.6	21487.3	22479.7	23859.8
70°	11061.3	12193.8	13073.9	13623.3	14407.5	15198.8	15848.7	16801.9	17431.4	18448.8	19875.4
72.5°	7004.1	7897.4	8975.9	9668.1	10364.7	11166.2	11830.8	12652.7	13240.1	14167.0	15459.7
75°	3765.9	4424.5	5371.9	6029.1	6775.2	7460.2	8238.4	8789.3	9223.5	9956.6	11005.9
77.5°	1764.9	2165.6	2645.1	3150.9	3656.6	4184.0	4697.1	5142.9	5329.6	5749.2	6368.7
80°	1071.1	1200.9	1340.8	1496.7	1707.9	1878.5	2104.4	2267.6	2279.3	2411.9	2601.4
82.5°	715.6	763.6	805.9	845.2	899.3	941.5	989.6	1046.3	1069.7	1100.3	1161.5
85°	488.1	511.6	520.3	545.0	539.3	553.7	572.7	591.8	601.9	600.4	628.2
87.5°	300.3	311.9	317.7	323.5	319.2	313.2	322.1	332.3	335.2	326.4	329.4
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°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	2671.3	2658.3	2645.1	2636.3	2633.4	2556.1	2522.7	2500.8	2454.2	2416.4	2385.7
5°	2946.8	2919.1	2897.3	2871.1	2856.4	2661.0	2589.8	2540.1	2458.5	2410.4	2366.8
7.5°	3389.8	3312.6	3267.3	3216.4	3172.6	2820.0	2701.9	2624.7	2511.0	2447.0	2397.3
10°	3892.5	3812.4	3741.0	3662.3	3593.8	3031.3	2859.3	2739.8	2589.8	2506.6	2441.1
12.5°	4453.6	4374.9	4284.6	4184.0	4096.6	3299.5	3060.4	2889.9	2684.4	2573.7	2481.8
15°	5116.7	4978.3	4869.1	4752.5	4650.4	3620.1	3295.2	3059.0	2785.0	2634.9	2512.5
17.5°	5733.3	5587.5	5438.9	5336.8	5218.9	3980.0	3531.1	3230.9	2868.1	2674.3	2518.3
20°	6335.1	6176.2	6048.0	5911.0	5787.2	4353.1	3783.3	3382.5	2921.9	2675.7	2481.8
22.5°	6865.6	6766.6	6623.7	6475.1	6349.7	4726.3	4019.3	3510.8	2942.4	2642.2	2417.8
25°	7469.0	7364.0	7189.1	7063.8	6923.9	5106.5	4251.0	3609.8	2930.7	2579.6	2318.6
27.5°	8113.1	7996.5	7817.3	7686.1	7517.0	5501.5	4463.9	3681.3	2887.1	2477.5	2186.0
30°	8785.0	8678.5	8502.2	8369.6	8199.1	5919.8	4701.4	3729.4	2799.6	2336.1	2031.5
32.5°	9506.4	9417.4	9242.5	9104.1	8922.0	6373.0	4922.9	3744.0	2667.0	2168.6	1868.4
35°	10191.4	10130.0	9982.9	9853.1	9663.7	6801.4	5157.6	3736.7	2509.5	1985.0	1719.6
37.5°	10962.2	10925.7	10853.0	10688.3	10456.5	7383.0	5438.9	3706.0	2317.2	1802.8	1606.0
40°	11784.1	11787.1	11708.4	11596.2	11380.4	8088.2	5774.0	3646.3	2107.3	1642.5	1502.5
42.5°	12654.2	12699.3	12661.5	12581.3	12374.4	8799.4	6174.8	3573.5	1903.2	1486.5	1400.5
45°	13651.1	13706.3	13764.6	13646.7	13445.7	9738.0	6702.3	3478.6	1683.2	1356.8	1330.6
47.5°	14801.0	14888.4	14940.8	14942.2	14741.1	10901.0	7559.2	3421.9	1488.0	1269.3	1297.1
50°	17227.4	17255.2	17379.0	17594.7	17440.1	13592.8	9056.1	3386.9	1355.4	1215.4	1272.3
52.5°	20723.5	21028.2	21242.4	21227.8	21018.1	15302.3	9880.8	3206.2	1276.6	1195.0	1260.6
55°	22147.4	22527.9	22924.1	23029.2	22865.9	16761.0	10660.5	3025.5	1238.8	1209.6	1265.1
57.5°	24044.9	24686.1	25229.7	25458.5	25222.5	18628.0	11686.5	2930.7	1227.1	1249.0	1292.8
60°	26261.6	27054.3	27768.4	28179.4	28179.4	20773.1	12750.5	2891.4	1211.0	1307.3	1339.4
62.5°	27685.5	28849.8	29928.3	30530.2	30512.6	22266.9	13222.6	2757.3	1174.7	1348.0	1403.4
65°	27691.2	29075.7	30449.9	31126.2	31161.1	22083.4	12443.0	2435.2	1107.6	1353.8	1467.6
67.5°	25382.8	26859.1	28460.7	29217.1	29392.0	20328.6	10771.3	2002.4	998.2	1295.5	1490.8
70°	21437.7	22879.0	24514.1	25257.5	25567.9	17329.5	8675.7	1543.4	858.4	1167.3	1442.8
72.5°	16889.4	18303.0	19441.1	19984.8	20226.6	13245.9	6317.6	1165.9	703.9	983.7	1313.1
75°	11957.6	13018.5	13623.3	13744.3	13782.2	7984.9	3838.6	867.1	580.0	765.0	1109.0
77.5°	6749.1	7203.7	7154.1	7208.1	6759.2	3082.4	1671.6	620.8	478.0	581.6	859.9
80°	2634.9	2716.6	2551.8	2500.8	2293.9	1147.0	737.4	432.9	381.8	440.1	601.9
82.5°	1161.5	1199.3	1164.5	1173.1	1122.2	591.8	441.5	313.2	291.5	322.1	399.2
85°	639.9	651.5	648.5	667.5	639.9	236.1	209.8	192.3	204.1	218.6	256.5
87.5°	311.9	314.8	304.5	320.6	310.5	119.6	103.5	109.4	119.6	122.3	122.3
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°	2502.3	2502.3	2502.3	2502.3	2502.3	2502.3
2.5°	2363.8	2352.2	2353.6	2350.8	2344.8	2344.8
5°	2343.4	2331.8	2331.8	2328.9	2321.6	2323.0
7.5°	2363.8	2344.8	2337.6	2327.4	2317.2	2317.2
10°	2387.2	2353.6	2333.3	2315.7	2302.6	2302.6
12.5°	2404.7	2352.2	2318.6	2295.3	2282.2	2282.2
15°	2410.4	2342.1	2295.3	2267.6	2256.1	2254.6
17.5°	2391.5	2302.6	2245.9	2213.8	2199.1	2194.7
20°	2333.3	2231.2	2162.7	2126.3	2105.8	2098.6
22.5°	2245.9	2129.3	2049.0	2011.1	1985.0	1980.6
25°	2123.4	1998.0	1919.4	1882.8	1868.4	1864.0
27.5°	1980.6	1864.0	1796.9	1773.7	1760.5	1759.1
30°	1844.9	1745.9	1696.4	1678.9	1662.9	1659.9
32.5°	1718.2	1655.5	1636.6	1611.7	1573.9	1569.6
35°	1627.9	1622.0	1609.0	1553.6	1506.8	1493.8
37.5°	1572.6	1626.4	1559.4	1450.0	1416.5	1413.7
40°	1540.5	1581.2	1466.2	1428.2	1431.1	1428.2
42.5°	1467.6	1509.8	1469.0	1451.5	1463.2	1466.2
45°	1394.7	1441.3	1490.8	1479.1	1506.8	1506.8
47.5°	1353.8	1423.9	1489.4	1489.4	1530.3	1544.7
50°	1307.3	1409.4	1466.2	1486.5	1518.6	1506.8
52.5°	1304.2	1384.5	1432.5	1469.0	1483.6	1470.4
55°	1308.7	1364.0	1399.1	1439.9	1457.4	1458.8
57.5°	1314.5	1352.4	1375.8	1394.7	1447.2	1447.2
60°	1329.1	1342.2	1355.4	1365.6	1434.1	1435.5
62.5°	1352.4	1332.0	1329.1	1339.4	1426.8	1420.8
65°	1388.9	1317.5	1295.5	1305.7	1419.4	1402.0
67.5°	1438.5	1295.5	1253.3	1260.6	1413.7	1375.8
70°	1483.6	1260.6	1200.9	1193.6	1358.2	1291.3
72.5°	1488.0	1219.8	1128.0	1106.2	1180.5	1116.4
75°	1415.1	1192.1	1047.9	983.7	975.0	966.2
77.5°	1275.1	1176.2	954.5	854.0	836.5	842.3
80°	1066.7	1116.4	842.3	722.9	817.5	807.3
82.5°	797.2	985.3	715.6	639.9	638.3	564.0
85°	443.0	768.1	582.9	479.4	333.7	323.5
87.5°	123.8	427.1	408.1	271.1	185.1	192.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)