

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: P269424

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269424  
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-06-LED-E1-T2R-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35349 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 382  
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

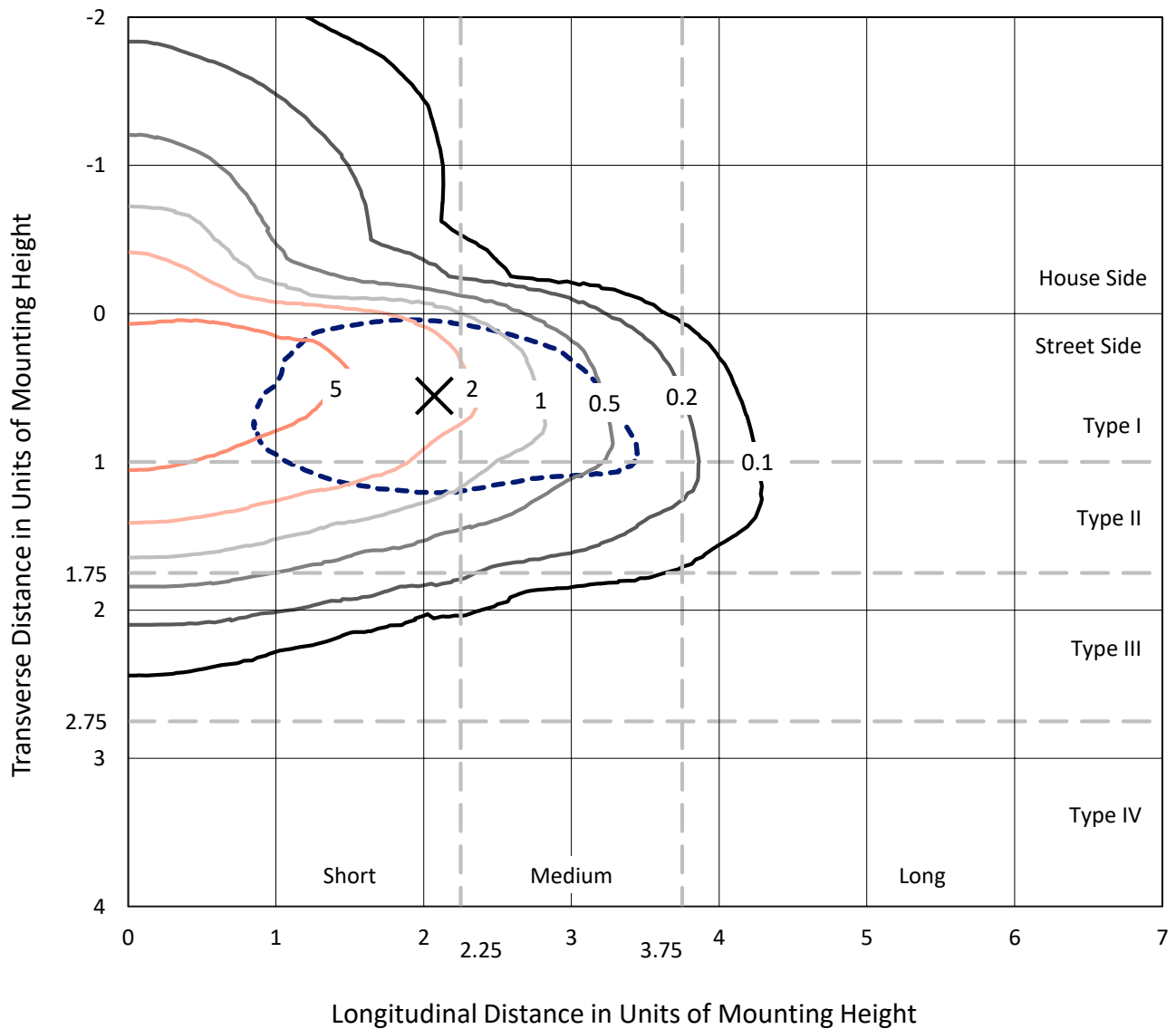


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

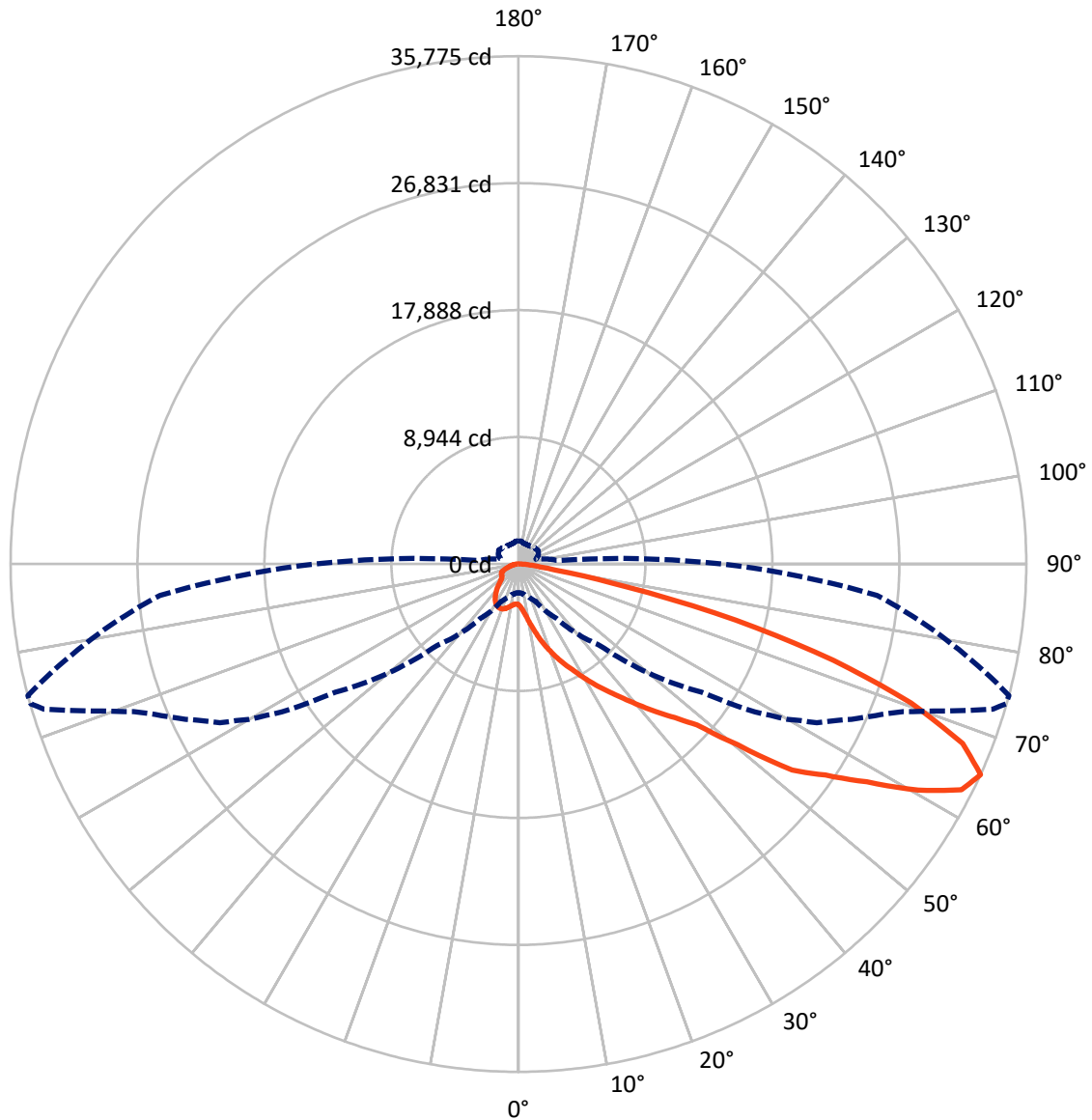


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Full Cutoff

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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	5450.0	0.0	5450.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	29899.0	0.0	29899.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	35349.0	0.0	35349.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.1	1.0
10°-20°	1387.4	3.9
20°-30°	2846.5	8.1
30°-40°	4789.1	13.5
40°-50°	6617.2	18.7
50°-60°	8260.2	23.4
60°-70°	7433.3	21.0
70°-80°	3116.0	8.8
80°-90°	544.4	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°	35349.0	100.0
0°-180°	35349.0	100.0



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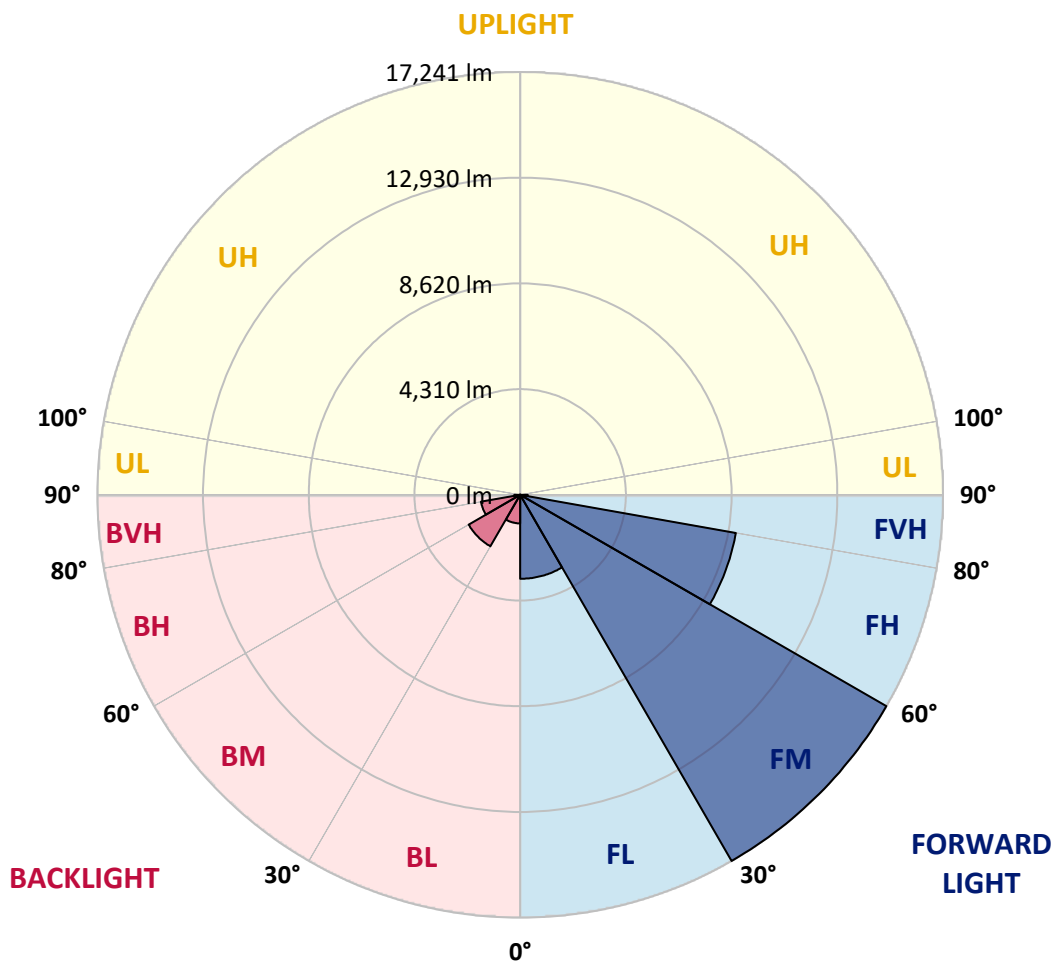
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3423.5	9.7			
FM (30°-60°)	17240.6	48.8			
FH (60°-80°)	8929.0	25.3			G4/12000
FVH (80°-90°)	306.0	0.9			G3/500
BL (0°-30°)	1165.5	3.3	B3/2500		
BM (30°-60°)	2425.9	6.9	B2/2500		
BH (60°-80°)	1620.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	238.4	0.7			G3/500
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°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	3647.5	3607.4	3617.4	3550.5	3468.4	3361.4	3242.5	3240.8	3242.5	3230.8	3187.4
5°	5057.8	5009.4	4991.1	4840.3	4619.5	4304.9	3963.7	3926.9	3911.8	3873.3	3784.6
7.5°	6086.8	6060.1	6031.7	5917.9	5717.2	5365.8	4907.4	4828.7	4753.4	4735.0	4634.5
10°	6751.1	6744.5	6684.2	6654.0	6528.6	6224.0	5777.4	5702.1	5620.1	5591.6	5486.2
12.5°	7276.5	7274.8	7246.4	7254.7	7145.9	6925.2	6540.3	6471.7	6411.6	6324.4	6249.1
15°	7639.5	7641.3	7683.1	7729.9	7713.1	7564.3	7202.9	7172.7	7121.0	7060.7	6971.9
17.5°	7937.3	7945.8	7989.3	8074.5	8166.6	8155.0	7868.9	7843.7	7798.5	7716.5	7669.6
20°	8610.0	8641.8	8558.2	8558.2	8568.2	8613.4	8476.1	8456.0	8392.4	8348.9	8312.1
22.5°	9746.0	9782.8	9593.8	9401.4	9212.3	9075.1	8938.0	8963.0	8919.5	8889.4	8867.7
25°	11221.7	11250.3	10944.1	10619.5	10234.6	9732.6	9392.9	9377.9	9354.5	9336.2	9326.2
27.5°	12610.4	12622.2	12332.7	11857.5	11410.8	10689.7	9854.8	9836.4	9808.0	9772.8	9742.7
30°	13798.4	13795.0	13497.3	13043.7	12565.3	11767.2	10555.9	10499.0	10415.3	10320.0	10246.3
32.5°	14827.3	14822.4	14496.0	14026.0	13524.1	12834.7	11516.2	11399.1	11268.6	11082.8	10970.8
35°	15637.2	15633.8	15326.1	14835.8	14260.2	13840.2	12617.1	12473.2	12307.7	12058.4	11886.1
37.5°	15943.4	15943.4	15771.1	15436.5	14927.8	14639.9	13840.2	13666.3	13488.9	13206.2	13011.9
40°	15764.4	15767.7	15804.5	15742.5	15495.0	15274.2	14981.4	14877.5	14725.3	14470.9	14268.6
42.5°	15163.7	15182.1	15426.4	15725.9	15849.7	15814.5	15993.6	15946.7	15839.6	15643.9	15483.2
45°	14402.4	14459.3	14727.1	15292.6	15948.4	16281.3	16841.9	16846.9	16826.8	16721.4	16597.5
47.5°	13356.7	13436.9	13790.1	14554.7	15717.6	16734.7	17703.4	17748.7	17790.6	17721.9	17665.0
50°	11967.9	12063.3	12592.1	13606.0	15247.3	17204.9	19331.4	19535.6	19726.3	19703.0	19741.4
52.5°	10480.5	10592.6	11240.1	12369.5	14439.3	17313.8	20372.2	20705.2	21038.0	21310.9	21600.3
55°	9138.6	9078.5	9725.9	10915.6	13110.8	16823.5	21307.4	21709.0	22080.5	22415.0	22759.7
57.5°	7320.0	7418.7	8067.9	9244.1	11352.3	15439.8	21951.6	22539.0	23072.6	23626.4	24115.0
60°	5350.8	5449.4	6153.7	7348.5	9443.3	13341.6	21459.7	22349.8	23204.7	24053.0	24715.6
62.5°	3230.8	3304.4	3925.2	5062.9	7281.5	10853.7	19267.9	20435.7	21694.0	22707.8	23723.5
65°	2011.1	2052.9	2282.1	2908.0	4676.4	8103.0	15742.5	17015.9	18371.1	19657.8	20713.5
67.5°	1646.4	1661.4	1703.2	1837.2	2568.3	5283.8	11717.0	12844.8	14067.7	15312.6	16487.1
70°	1480.8	1470.6	1470.6	1479.1	1646.4	2841.0	7671.3	8405.9	9424.7	10507.4	11581.5
72.5°	1336.9	1326.7	1308.4	1283.3	1343.5	1733.4	3965.4	4519.2	5253.6	6215.7	7244.7
75°	1201.4	1187.9	1166.2	1134.4	1176.2	1308.4	1904.0	2136.6	2494.7	3006.6	3580.6
77.5°	1060.8	1044.0	1024.0	1000.5	1054.2	1017.3	1116.0	1199.6	1336.9	1500.8	1716.7
80°	901.8	886.7	880.1	868.3	931.9	774.7	788.1	839.9	920.3	1008.8	1109.2
82.5°	706.1	706.1	732.8	737.9	808.1	557.2	589.0	634.2	676.0	722.7	769.7
85°	465.1	468.5	558.8	594.0	637.4	374.9	441.6	456.8	490.3	517.1	537.0
87.5°	145.5	157.3	341.4	378.1	366.4	212.4	271.1	277.8	301.1	319.5	336.2
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°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	3187.4	3167.2	3148.9	3147.2	3133.7	3115.4	3122.1	3093.7	3095.3	3080.3	3063.5
5°	3747.9	3734.4	3667.5	3649.2	3598.9	3567.1	3562.0	3495.1	3486.9	3448.4	3406.6
7.5°	4554.2	4510.7	4417.1	4372.0	4286.6	4223.0	4192.8	4104.3	4060.7	3960.4	3915.2
10°	5399.3	5343.9	5228.6	5165.0	5083.0	4980.9	4925.8	4796.9	4746.7	4654.7	4544.3
12.5°	6182.2	6127.1	6008.3	5959.7	5851.0	5742.2	5682.0	5536.4	5471.1	5324.0	5236.8
15°	6906.7	6851.6	6747.8	6697.7	6588.9	6500.1	6419.8	6276.0	6199.1	6061.9	5947.9
17.5°	7609.5	7551.0	7460.6	7415.4	7310.0	7219.6	7132.6	6997.1	6918.4	6781.2	6679.2
20°	8262.0	8218.5	8153.2	8093.0	7987.5	7905.7	7801.9	7684.7	7570.9	7470.6	7373.6
22.5°	8830.9	8814.1	8743.8	8717.1	8626.8	8556.4	8466.0	8350.6	8268.7	8141.5	8051.1
25°	9321.1	9316.1	9282.5	9274.2	9210.6	9143.7	9123.6	9028.2	8953.0	8840.8	8747.2
27.5°	9742.7	9747.7	9739.3	9762.8	9746.0	9716.0	9717.7	9685.9	9642.2	9548.7	9466.7
30°	10211.3	10184.4	10199.4	10233.0	10243.0	10246.3	10301.6	10320.0	10316.6	10254.7	10214.5
32.5°	10873.8	10810.2	10751.6	10746.7	10780.1	10793.5	10887.2	10935.6	10977.5	10992.6	10999.2
35°	11718.7	11591.5	11469.4	11404.2	11347.3	11362.3	11429.2	11507.8	11600.0	11663.5	11738.8
37.5°	12782.8	12627.2	12411.3	12257.5	12218.9	12135.4	12178.9	12240.8	12331.0	12429.8	12560.3
40°	14072.8	13837.0	13594.3	13390.1	13279.7	13125.9	13124.1	13112.4	13167.6	13259.6	13443.8
42.5°	15314.2	15105.1	14847.5	14633.3	14489.4	14283.6	14241.8	14133.0	14158.1	14238.5	14417.4
45°	16477.2	16304.7	16147.6	15899.9	15777.7	15555.2	15485.0	15356.0	15284.1	15321.0	15500.0
47.5°	17603.1	17492.8	17328.8	17168.0	17074.4	16875.3	16785.0	16692.9	16600.9	16597.5	16785.0
50°	19798.3	19739.7	19545.6	19378.3	19423.5	19179.3	19194.3	18946.6	19058.8	19072.2	19465.4
52.5°	21861.3	22065.3	22209.2	22385.0	22498.7	22520.5	22595.7	22707.8	22843.4	23111.1	23475.9
55°	23042.6	23298.5	23447.4	23581.2	23802.1	23849.0	23974.4	24123.4	24242.2	24543.3	24852.9
57.5°	24446.2	24921.5	25152.4	25364.8	25662.7	25776.4	25985.6	26147.9	26301.8	26658.2	27033.0
60°	25311.4	25890.2	26360.4	26696.6	27069.7	27337.5	27653.8	27908.1	28269.4	28696.0	29254.9
62.5°	24623.6	25473.5	26097.6	26674.9	27181.9	27693.8	28147.3	28622.4	29171.2	29817.1	30683.8
65°	21884.7	22749.8	23818.9	24417.9	25088.8	25878.6	26567.8	27337.5	28085.4	29025.7	30307.2
67.5°	17618.2	18623.8	19825.1	20429.1	21200.4	22082.1	22855.1	23795.5	24668.8	25808.2	27392.6
70°	12699.2	13999.1	15009.8	15640.5	16540.8	17449.1	18195.3	19289.7	20012.4	21180.2	22818.2
72.5°	8041.1	9066.8	10304.8	11099.6	11899.4	12819.6	13582.6	14526.2	15200.5	16264.6	17748.7
75°	4323.5	5079.6	6167.3	6921.8	7778.5	8564.8	9458.3	10090.8	10589.3	11430.9	12635.6
77.5°	2026.1	2486.2	3036.8	3617.4	4197.9	4803.5	5392.5	5904.5	6118.6	6600.6	7311.7
80°	1229.8	1378.7	1539.2	1718.3	1960.9	2156.7	2416.0	2603.4	2616.9	2769.0	2986.5
82.5°	821.5	876.7	925.3	970.3	1032.3	1080.8	1136.0	1201.4	1228.2	1263.2	1333.5
85°	560.5	587.3	597.4	625.8	619.0	635.8	657.6	679.3	690.9	689.3	721.1
87.5°	344.7	358.1	364.7	371.4	366.4	359.7	369.7	381.5	384.8	374.9	378.1
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°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	3066.9	3051.8	3036.8	3026.7	3023.3	2934.8	2896.2	2871.2	2817.5	2774.1	2738.9
5°	3383.0	3351.2	3326.2	3296.2	3279.4	3055.1	2973.2	2916.3	2822.6	2767.4	2717.3
7.5°	3891.7	3803.1	3751.2	3692.7	3642.4	3237.5	3101.9	3013.4	2882.8	2809.2	2752.2
10°	4469.0	4376.9	4294.9	4204.5	4125.9	3480.2	3282.6	3145.5	2973.2	2877.8	2802.5
12.5°	5113.2	5022.8	4919.1	4803.5	4703.2	3788.1	3513.6	3317.8	3081.9	2954.7	2849.3
15°	5874.3	5715.5	5590.0	5456.1	5338.9	4156.1	3783.0	3512.0	3197.3	3025.0	2884.5
17.5°	6582.2	6414.8	6244.2	6127.1	5991.5	4569.4	4054.1	3709.3	3292.7	3070.1	2891.1
20°	7273.1	7090.9	6943.5	6786.2	6644.0	4997.7	4343.5	3883.4	3354.6	3071.8	2849.3
22.5°	7882.2	7768.5	7604.4	7433.7	7289.8	5426.0	4614.6	4030.5	3378.0	3033.3	2775.8
25°	8574.9	8454.4	8253.5	8109.7	7949.1	5862.7	4880.5	4144.4	3364.7	2961.4	2661.9
27.5°	9314.3	9180.5	8974.7	8824.1	8630.0	6316.2	5124.8	4226.3	3314.4	2844.4	2509.8
30°	10085.7	9963.6	9761.2	9608.9	9413.1	6796.2	5397.6	4281.6	3214.0	2682.1	2332.4
32.5°	10913.9	10811.8	10611.0	10452.0	10243.0	7316.6	5651.9	4298.3	3061.9	2489.7	2145.0
35°	11700.2	11629.9	11461.0	11312.1	11094.5	7808.5	5921.3	4289.9	2881.1	2278.8	1974.4
37.5°	12585.3	12543.6	12459.9	12270.8	12004.8	8476.1	6244.2	4254.8	2660.3	2069.7	1843.9
40°	13529.1	13532.3	13442.0	13313.2	13065.6	9285.9	6629.0	4186.2	2419.3	1885.6	1725.0
42.5°	14527.8	14579.9	14536.3	14444.2	14206.7	10102.3	7089.2	4102.6	2185.1	1706.6	1607.8
45°	15672.3	15735.9	15802.9	15667.2	15436.5	11179.9	7694.8	3993.8	1932.4	1557.8	1527.6
47.5°	16992.3	17092.8	17153.0	17154.8	16923.9	12515.0	8678.5	3928.6	1708.2	1457.3	1489.1
50°	19778.3	19810.1	19952.3	20199.8	20022.5	15605.4	10397.0	3888.4	1556.0	1395.3	1460.6
52.5°	23792.1	24141.8	24387.7	24370.9	24130.0	17568.1	11343.8	3681.0	1465.7	1372.0	1447.3
55°	25426.7	25863.5	26318.5	26438.9	26251.6	19242.9	12239.0	3473.4	1422.1	1388.7	1452.3
57.5°	27605.2	28341.3	28965.5	29228.2	28957.0	21386.0	13416.9	3364.7	1408.8	1433.9	1484.1
60°	30150.1	31060.2	31880.0	32351.9	32351.9	23849.0	14638.3	3319.4	1390.3	1500.8	1537.5
62.5°	31784.6	33121.5	34359.6	35050.6	35030.6	25564.0	15180.4	3165.5	1348.5	1547.7	1611.2
65°	31791.3	33380.8	34958.6	35734.9	35775.1	25353.1	14285.2	2795.9	1271.6	1554.3	1684.9
67.5°	29141.1	30835.9	32674.8	33543.2	33743.9	23338.7	12366.2	2298.9	1146.1	1487.5	1711.6
70°	24611.9	26266.7	28143.9	28997.2	29353.6	19895.3	9960.1	1771.8	985.5	1340.2	1656.5
72.5°	19390.0	21013.1	22319.6	22943.8	23221.5	15207.1	7253.1	1338.6	808.1	1129.3	1507.4
75°	13728.2	14946.2	15640.5	15779.4	15822.9	9167.2	4407.1	995.5	666.0	878.5	1273.3
77.5°	7748.3	8270.3	8213.5	8275.4	7760.1	3538.8	1919.0	712.7	548.8	667.6	987.1
80°	3025.0	3118.7	2929.6	2871.2	2633.6	1316.7	846.7	496.9	438.4	505.2	690.9
82.5°	1333.5	1377.0	1336.9	1346.9	1288.3	679.3	507.0	359.7	334.6	369.7	458.5
85°	734.5	747.8	744.5	766.3	734.5	271.1	240.9	220.9	234.3	250.9	294.5
87.5°	358.1	361.4	349.7	368.0	356.4	137.3	118.8	125.6	137.3	140.6	140.6
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°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	2713.8	2700.5	2702.1	2698.8	2692.1	2692.1
5°	2690.5	2676.9	2676.9	2673.6	2665.4	2667.0
7.5°	2713.8	2692.1	2683.7	2672.0	2660.3	2660.3
10°	2740.5	2702.1	2678.7	2658.7	2643.5	2643.5
12.5°	2760.8	2700.5	2661.9	2635.2	2620.1	2620.1
15°	2767.4	2688.7	2635.2	2603.4	2590.1	2588.3
17.5°	2745.6	2643.5	2578.3	2541.6	2524.7	2519.7
20°	2678.7	2561.5	2482.9	2441.1	2417.7	2409.3
22.5°	2578.3	2444.5	2352.4	2309.0	2278.8	2273.8
25°	2437.8	2293.9	2203.5	2161.7	2145.0	2139.9
27.5°	2273.8	2139.9	2063.0	2036.2	2021.1	2019.5
30°	2118.3	2004.4	1947.5	1927.5	1909.1	1905.8
32.5°	1972.7	1900.8	1879.0	1850.5	1807.0	1802.0
35°	1869.0	1862.1	1847.2	1783.6	1730.0	1715.0
37.5°	1805.4	1867.2	1790.2	1664.7	1626.3	1623.0
40°	1768.6	1815.4	1683.2	1639.6	1643.0	1639.6
42.5°	1684.9	1733.4	1686.5	1666.4	1679.8	1683.2
45°	1601.1	1654.8	1711.6	1698.2	1730.0	1730.0
47.5°	1554.3	1634.6	1710.0	1710.0	1756.7	1773.6
50°	1500.8	1617.9	1683.2	1706.6	1743.4	1730.0
52.5°	1497.5	1589.6	1644.6	1686.5	1703.2	1688.3
55°	1502.4	1566.0	1606.2	1653.2	1673.2	1674.8
57.5°	1509.2	1552.7	1579.4	1601.1	1661.4	1661.4
60°	1526.0	1541.0	1556.0	1567.7	1646.4	1648.0
62.5°	1552.7	1529.3	1526.0	1537.5	1638.0	1631.3
65°	1594.5	1512.6	1487.5	1499.1	1629.6	1609.6
67.5°	1651.4	1487.5	1438.9	1447.3	1623.0	1579.4
70°	1703.2	1447.3	1378.7	1370.4	1559.4	1482.5
72.5°	1708.2	1400.4	1294.9	1269.9	1355.3	1281.6
75°	1624.7	1368.7	1203.0	1129.3	1119.4	1109.2
77.5°	1464.0	1350.2	1095.9	980.5	960.4	967.0
80°	1224.7	1281.6	967.0	829.9	938.5	927.0
82.5°	915.3	1131.1	821.5	734.5	732.8	647.5
85°	508.6	881.7	669.2	550.4	383.1	371.4
87.5°	142.2	490.3	468.5	311.3	212.4	220.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)