

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: P269663

Luminaire Tested: **GLEON-AF-09-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269663  
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-09-LED-E1-T2R-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 38914.7 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 374  
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

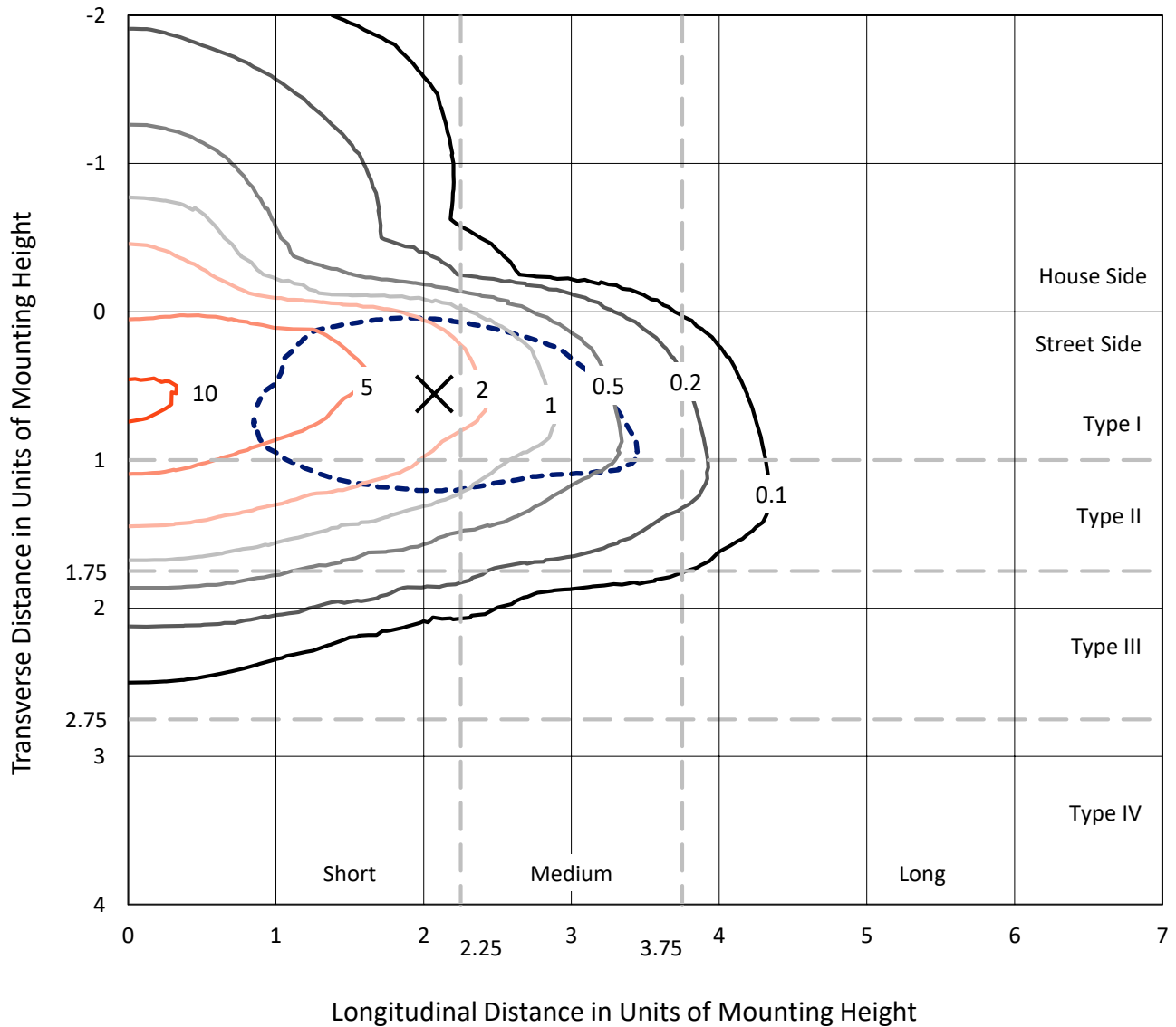


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

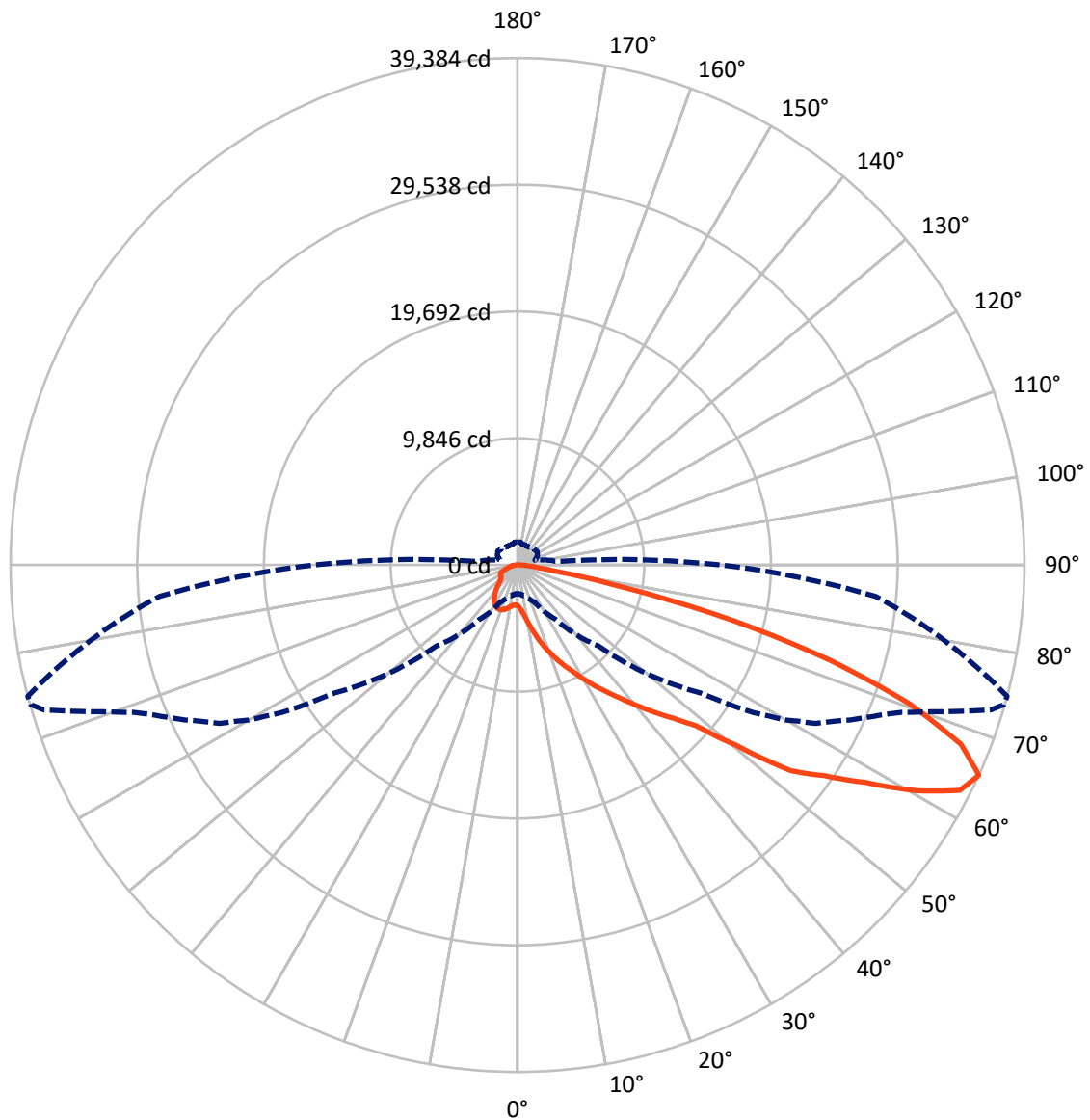


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - Full Cutoff

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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	5999.7	0.0	5999.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	32915.0	0.0	32915.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	38914.7	0.0	38914.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.9	1.0
10°-20°	1527.3	3.9
20°-30°	3133.6	8.1
30°-40°	5272.2	13.5
40°-50°	7284.6	18.7
50°-60°	9093.4	23.4
60°-70°	8183.1	21.0
70°-80°	3430.3	8.8
80°-90°	599.3	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°	38914.7	100.0
0°-180°	38914.7	100.0

**Coefficient of Utilization**



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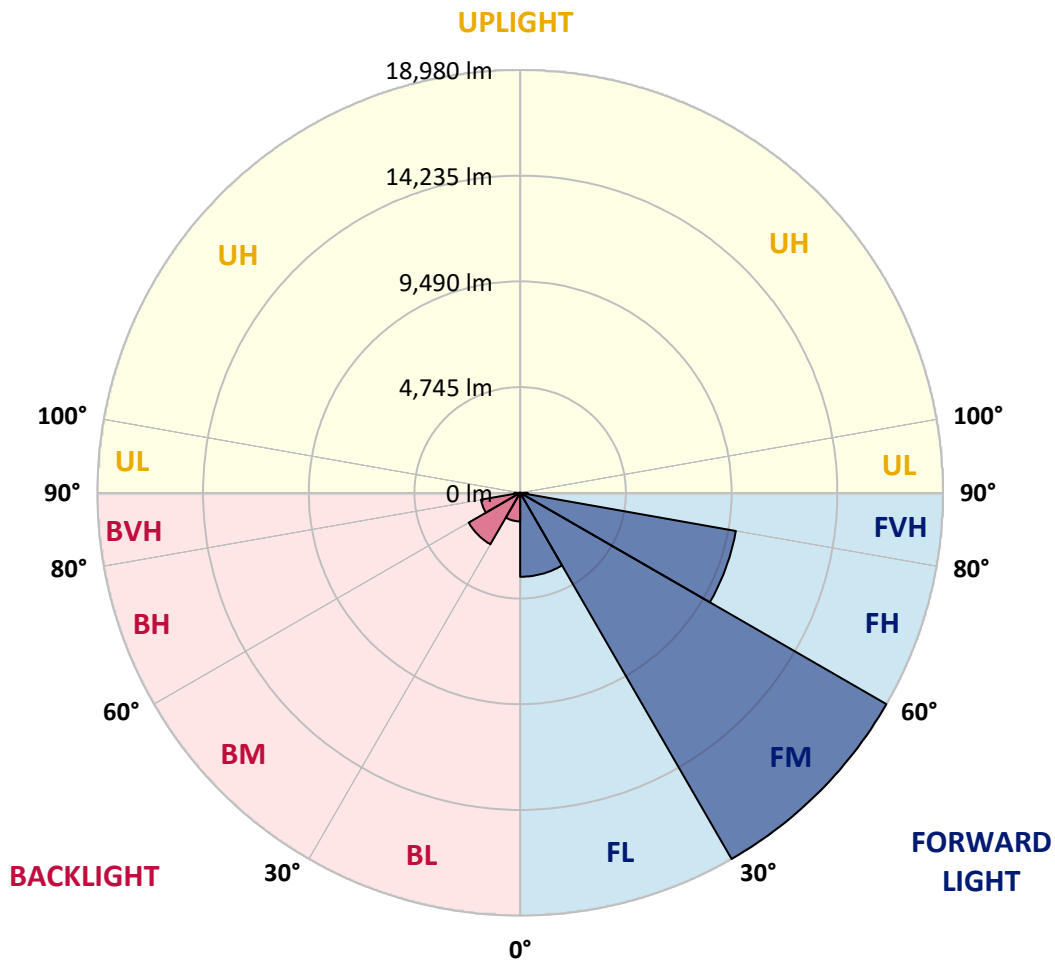
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.8	9.7			
FM (30°-60°)	18979.7	48.8			
FH (60°-80°)	9829.7	25.3			G4/12000
FVH (80°-90°)	336.8	0.9			G3/500
BL (0°-30°)	1283.1	3.3	B3/2500		
BM (30°-60°)	2670.6	6.9	B3/5000		
BH (60°-80°)	1783.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	262.4	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°	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6
2.5°	4015.3	3971.1	3982.2	3908.5	3818.2	3700.4	3569.7	3567.8	3569.7	3556.7	3508.9
5°	5568.1	5514.6	5494.5	5328.7	5085.6	4739.3	4363.4	4323.0	4306.5	4264.1	4166.3
7.5°	6700.8	6671.4	6640.1	6514.9	6293.9	5907.1	5402.3	5315.8	5232.8	5212.7	5102.2
10°	7432.1	7424.9	7358.5	7325.3	7187.2	6851.9	6360.1	6277.3	6186.9	6155.6	6039.7
12.5°	8010.5	8008.7	7977.4	7986.6	7866.8	7623.6	7200.1	7124.5	7058.3	6962.5	6879.6
15°	8410.2	8412.0	8458.1	8509.6	8491.1	8327.3	7929.5	7896.3	7839.1	7772.9	7675.3
17.5°	8738.1	8747.2	8795.1	8889.1	8990.3	8977.5	8662.5	8634.9	8585.2	8494.9	8443.3
20°	9478.5	9513.5	9421.5	9421.5	9432.5	9482.1	9331.1	9309.0	9239.1	9191.2	9150.7
22.5°	10729.1	10769.7	10561.6	10349.7	10141.5	9990.5	9839.6	9867.2	9819.3	9786.0	9762.2
25°	12353.8	12385.0	12048.0	11690.6	11267.0	10714.4	10340.5	10324.0	10298.2	10277.9	10266.8
27.5°	13882.4	13895.4	13576.8	13053.6	12561.9	11767.9	10848.9	10828.6	10797.3	10758.6	10725.5
30°	15190.2	15186.6	14858.8	14359.5	13832.8	12954.2	11620.7	11558.0	11466.0	11361.0	11279.8
32.5°	16323.0	16317.5	15958.4	15440.7	14888.1	14129.4	12677.9	12549.0	12405.4	12200.9	12077.4
35°	17214.5	17210.8	16872.0	16332.3	15698.6	15236.3	13890.0	13731.5	13549.1	13274.7	13085.0
37.5°	17551.7	17551.7	17361.9	16993.4	16433.6	16116.8	15236.3	15044.8	14849.5	14538.2	14324.6
40°	17354.5	17358.2	17398.7	17330.6	17057.9	16814.8	16492.5	16378.3	16210.8	15930.7	15707.9
42.5°	16693.3	16713.5	16982.5	17312.1	17448.5	17409.8	17606.9	17555.2	17437.4	17221.9	17045.1
45°	15855.3	15917.8	16212.5	16835.0	17557.2	17923.7	18540.7	18546.2	18524.2	18408.1	18271.9
47.5°	14703.9	14792.4	15181.0	16022.8	17303.0	18422.8	19489.3	19539.0	19585.0	19509.6	19447.0
50°	13175.3	13280.3	13862.3	14978.5	16785.4	18940.5	21281.4	21506.2	21716.2	21690.4	21732.8
52.5°	11537.8	11661.2	12374.1	13617.2	15895.7	19060.1	22427.2	22793.8	23160.2	23460.5	23779.2
55°	10060.6	9994.3	10707.1	12016.6	14433.2	18520.4	23456.8	23898.9	24307.7	24676.1	25055.5
57.5°	8058.3	8167.0	8881.7	10176.5	12497.4	16997.2	24165.9	24812.4	25400.0	26009.6	26547.5
60°	5890.5	5999.2	6774.6	8089.6	10395.7	14687.5	23624.3	24604.2	25545.6	26479.3	27208.8
62.5°	3556.7	3637.7	4321.1	5573.7	8016.0	11948.4	21211.5	22497.2	23882.2	24998.5	26116.6
65°	2214.1	2260.0	2512.4	3201.2	5148.1	8920.3	17330.6	18732.3	20224.3	21640.7	22802.9
67.5°	1812.4	1828.9	1875.0	2022.4	2827.3	5816.7	12898.9	14140.4	15486.8	16857.2	18150.3
70°	1630.2	1619.0	1619.0	1628.3	1812.4	3127.5	8445.1	9253.8	10375.6	11567.2	12749.7
72.5°	1471.8	1460.6	1440.4	1412.8	1479.1	1908.2	4365.4	4975.1	5783.6	6842.7	7975.5
75°	1322.5	1307.8	1283.8	1248.9	1294.8	1440.4	2096.0	2352.1	2746.3	3310.0	3941.8
77.5°	1167.7	1149.3	1127.3	1101.4	1160.4	1119.8	1228.5	1320.7	1471.8	1652.3	1889.9
80°	992.7	976.2	968.8	955.9	1026.0	852.9	867.6	924.6	1013.1	1110.7	1221.2
82.5°	777.4	777.4	806.8	812.2	889.6	613.4	648.3	698.2	744.2	795.7	847.3
85°	512.0	515.7	615.2	653.8	701.8	412.6	486.3	502.8	539.7	569.2	591.3
87.5°	160.3	173.2	375.8	416.3	403.3	233.9	298.3	305.8	331.6	351.7	370.2
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°	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6
2.5°	3508.9	3486.7	3466.5	3464.7	3449.9	3429.6	3437.1	3405.7	3407.5	3390.9	3372.5
5°	4125.8	4111.2	4037.5	4017.2	3962.0	3927.0	3921.5	3847.8	3838.5	3796.1	3750.2
7.5°	5013.7	4965.8	4862.6	4812.8	4718.9	4649.0	4615.9	4518.3	4470.3	4359.8	4310.1
10°	5943.8	5883.1	5756.0	5686.0	5595.7	5483.3	5422.6	5280.7	5225.5	5124.2	5002.7
12.5°	6805.9	6745.2	6614.3	6561.0	6441.1	6321.5	6255.2	6094.9	6023.0	5861.0	5765.2
15°	7603.4	7542.7	7428.4	7373.2	7253.5	7155.9	7067.4	6909.0	6824.3	6673.2	6548.0
17.5°	8377.1	8312.6	8213.2	8163.3	8047.3	7947.8	7852.1	7702.8	7616.3	7465.3	7352.9
20°	9095.3	9047.5	8975.7	8909.3	8793.2	8703.0	8588.9	8459.9	8334.7	8224.2	8117.4
22.5°	9721.6	9703.2	9625.9	9596.4	9496.9	9419.5	9320.0	9193.1	9102.7	8962.7	8863.2
25°	10261.2	10255.8	10218.9	10209.7	10139.8	10066.0	10043.9	9938.9	9856.2	9732.6	9629.6
27.5°	10725.5	10731.1	10721.8	10747.6	10729.1	10695.9	10697.8	10662.8	10614.9	10511.7	10421.5
30°	11241.2	11211.7	11228.4	11265.1	11276.2	11279.8	11340.7	11361.0	11357.2	11289.1	11245.0
32.5°	11970.6	11900.7	11836.2	11830.6	11867.5	11882.2	11985.4	12038.7	12084.8	12101.3	12108.8
35°	12900.7	12760.9	12626.3	12554.5	12491.9	12508.4	12582.1	12668.6	12769.9	12840.1	12922.8
37.5°	14072.2	13900.9	13663.3	13493.9	13451.5	13359.5	13407.4	13475.5	13574.8	13683.6	13827.3
40°	15492.3	15232.6	14965.6	14740.8	14619.2	14449.9	14448.0	14435.1	14495.9	14597.2	14799.8
42.5°	16859.0	16628.9	16345.2	16109.3	15950.9	15724.4	15678.4	15558.6	15586.3	15674.6	15871.9
45°	18139.1	17949.5	17776.3	17503.7	17369.3	17124.3	17047.0	16905.2	16826.0	16866.4	17063.6
47.5°	19378.7	19257.2	19076.8	18899.9	18796.8	18577.6	18478.0	18376.7	18275.5	18271.9	18478.0
50°	21795.3	21730.9	21517.2	21333.0	21382.7	21113.9	21130.4	20857.8	20981.3	20995.9	21428.9
52.5°	24066.4	24291.2	24449.6	24642.9	24768.2	24792.2	24875.1	24998.5	25147.7	25442.3	25843.9
55°	25366.9	25648.6	25812.5	25959.9	26203.1	26254.7	26392.8	26556.8	26687.4	27019.0	27359.8
57.5°	26912.2	27435.3	27689.5	27923.5	28251.2	28376.6	28606.7	28785.5	28954.9	29347.3	29759.8
60°	27864.4	28501.9	29019.3	29389.6	29800.4	30095.0	30443.2	30723.1	31121.1	31590.7	32205.9
62.5°	27107.4	28043.2	28730.2	29365.7	29923.8	30487.3	30986.6	31509.7	32113.8	32824.7	33778.8
65°	24092.3	25044.6	26221.5	26880.9	27619.5	28488.8	29247.7	30095.0	30918.5	31953.5	33364.5
67.5°	19395.3	20502.3	21824.9	22489.7	23339.0	24309.7	25160.5	26195.7	27157.2	28411.6	30155.8
70°	13980.1	15411.3	16523.9	17218.3	18209.2	19209.4	20030.9	21235.5	22031.1	23316.8	25120.1
72.5°	8852.3	9981.3	11344.3	12219.3	13099.8	14112.7	14952.6	15991.4	16733.7	17905.2	19539.0
75°	4759.5	5592.0	6789.3	7620.1	8563.1	9428.8	10412.3	11108.6	11657.5	12583.9	13910.2
77.5°	2230.5	2737.0	3343.1	3982.2	4621.4	5288.1	5936.4	6500.1	6735.9	7266.4	8049.2
80°	1353.8	1517.7	1694.6	1891.7	2158.7	2374.2	2659.7	2866.0	2880.8	3048.4	3287.8
82.5°	904.4	965.1	1018.6	1068.4	1136.4	1189.8	1250.7	1322.5	1351.9	1390.7	1468.0
85°	617.0	646.5	657.6	688.9	681.5	699.9	723.9	747.7	760.8	758.9	793.8
87.5°	379.4	394.1	401.5	408.9	403.3	396.1	407.0	420.0	423.6	412.6	416.3
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6
2.5°	3376.2	3359.7	3343.1	3332.1	3328.3	3230.8	3188.4	3160.7	3101.8	3053.9	3015.3
5°	3724.4	3689.3	3661.8	3628.6	3610.2	3363.3	3273.1	3210.5	3107.2	3046.5	2991.3
7.5°	4284.2	4186.7	4129.6	4065.1	4009.9	3564.1	3414.8	3317.4	3173.6	3092.5	3030.0
10°	4919.7	4818.5	4728.1	4628.7	4542.2	3831.2	3613.8	3462.7	3273.1	3168.1	3085.1
12.5°	5628.9	5529.4	5415.3	5288.1	5177.7	4170.1	3868.0	3652.5	3392.8	3252.9	3136.8
15°	6467.0	6292.0	6153.7	6006.4	5877.5	4575.2	4164.5	3866.1	3519.9	3330.1	3175.5
17.5°	7246.1	7061.8	6874.0	6745.2	6595.9	5030.2	4463.0	4083.5	3624.9	3380.0	3182.9
20°	8006.9	7806.0	7643.9	7470.8	7314.3	5501.8	4781.6	4275.0	3693.0	3381.8	3136.8
22.5°	8677.3	8552.0	8371.6	8183.6	8025.2	5973.3	5080.1	4437.2	3718.9	3339.4	3055.8
25°	9439.7	9307.2	9086.1	8927.7	8751.0	6454.1	5372.9	4562.4	3704.2	3260.2	2930.5
27.5°	10254.0	10106.7	9880.0	9714.2	9500.7	6953.2	5641.7	4652.7	3648.8	3131.2	2762.8
30°	11103.1	10968.7	10745.7	10578.1	10362.6	7481.9	5942.0	4713.4	3538.3	2952.5	2567.6
32.5°	12014.8	11902.5	11681.4	11506.4	11276.2	8054.7	6222.0	4731.9	3370.7	2740.8	2361.4
35°	12880.4	12803.2	12617.1	12453.3	12213.7	8596.2	6518.6	4722.7	3171.7	2508.6	2173.4
37.5°	13854.9	13808.8	13716.7	13508.6	13215.8	9331.1	6874.0	4684.0	2928.7	2278.5	2029.8
40°	14893.7	14897.4	14798.0	14656.1	14383.5	10222.6	7297.7	4608.5	2663.5	2075.9	1898.9
42.5°	15993.3	16050.5	16002.5	15901.3	15639.8	11121.5	7804.1	4516.4	2405.5	1878.7	1770.1
45°	17253.2	17323.3	17396.8	17247.6	16993.4	12307.7	8470.9	4396.7	2127.5	1714.9	1681.6
47.5°	18706.5	18816.9	18883.4	18885.2	18630.9	13777.6	9554.1	4324.8	1880.6	1604.4	1639.2
50°	21773.3	21808.3	21964.8	22237.5	22042.3	17179.5	11445.7	4280.7	1713.0	1536.1	1608.0
52.5°	26192.1	26577.0	26847.7	26829.4	26564.0	19340.1	12488.1	4052.3	1613.5	1510.4	1593.2
55°	27991.5	28472.3	28973.4	29106.0	28899.6	21183.9	13473.6	3823.8	1565.7	1528.7	1598.8
57.5°	30389.8	31200.2	31887.2	32176.4	31878.1	23543.4	14770.3	3704.2	1551.0	1578.5	1633.7
60°	33191.4	34193.4	35095.8	35615.3	35615.3	26254.7	16115.0	3654.3	1530.6	1652.3	1692.8
62.5°	34990.9	36462.6	37825.7	38586.2	38564.1	28142.6	16711.7	3485.0	1484.5	1703.7	1773.8
65°	34998.2	36748.0	38484.9	39339.7	39383.9	27910.6	15726.3	3077.9	1399.9	1711.1	1854.8
67.5°	32080.6	33946.5	35970.8	36926.6	37147.7	25692.9	13613.6	2530.7	1261.7	1637.5	1884.3
70°	27094.6	28916.3	30982.8	31922.2	32314.5	21902.2	10964.9	1950.6	1085.0	1475.3	1823.5
72.5°	21346.0	23132.7	24571.2	25258.3	25564.0	16741.2	7984.8	1473.5	889.6	1243.3	1659.6
75°	15112.9	16453.8	17218.3	17371.2	17419.0	10091.9	4851.6	1095.9	733.0	967.0	1401.6
77.5°	8529.9	9104.6	9042.0	9110.2	8542.8	3895.7	2112.6	784.7	604.1	735.0	1086.7
80°	3330.1	3433.3	3225.2	3160.7	2899.2	1449.5	932.0	547.1	482.6	556.3	760.8
82.5°	1468.0	1515.9	1471.8	1482.7	1418.2	747.7	558.0	396.1	368.3	407.0	504.7
85°	808.7	823.3	819.7	843.6	808.7	298.3	265.2	243.1	257.9	276.3	324.2
87.5°	394.1	397.9	385.0	405.2	392.3	151.1	130.8	138.2	151.1	154.7	154.7
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°	3162.6	3162.6	3162.6	3162.6	3162.6	3162.6
2.5°	2987.7	2972.9	2974.6	2971.1	2963.7	2963.7
5°	2961.8	2947.1	2947.1	2943.3	2934.1	2936.0
7.5°	2987.7	2963.7	2954.4	2941.5	2928.7	2928.7
10°	3017.0	2974.6	2948.9	2926.8	2910.1	2910.1
12.5°	3039.1	2972.9	2930.5	2901.0	2884.5	2884.5
15°	3046.5	2959.9	2901.0	2866.0	2851.3	2849.5
17.5°	3022.5	2910.1	2838.4	2798.0	2779.4	2774.0
20°	2948.9	2820.0	2733.5	2687.4	2661.6	2652.3
22.5°	2838.4	2691.1	2589.8	2541.8	2508.6	2503.1
25°	2683.6	2525.2	2425.9	2379.8	2361.4	2355.8
27.5°	2503.1	2355.8	2271.1	2241.6	2225.0	2223.1
30°	2331.9	2206.5	2144.0	2121.8	2101.7	2097.9
32.5°	2171.7	2092.4	2068.4	2037.1	1989.2	1983.7
35°	2057.4	2050.0	2033.5	1963.4	1904.5	1888.0
37.5°	1987.4	2055.6	1970.8	1832.7	1790.3	1786.6
40°	1946.8	1998.5	1852.9	1805.1	1808.7	1805.1
42.5°	1854.8	1908.2	1856.6	1834.6	1849.3	1852.9
45°	1762.7	1821.7	1884.3	1869.6	1904.5	1904.5
47.5°	1711.1	1799.6	1882.5	1882.5	1934.1	1952.5
50°	1652.3	1781.1	1852.9	1878.7	1919.3	1904.5
52.5°	1648.5	1749.8	1810.7	1856.6	1875.0	1858.6
55°	1654.0	1724.0	1768.3	1819.7	1842.0	1843.7
57.5°	1661.4	1709.2	1738.8	1762.7	1828.9	1828.9
60°	1679.8	1696.4	1713.0	1725.9	1812.4	1814.2
62.5°	1709.2	1683.6	1679.8	1692.8	1803.3	1795.9
65°	1755.4	1665.1	1637.5	1650.4	1794.1	1771.9
67.5°	1818.0	1637.5	1584.0	1593.2	1786.6	1738.8
70°	1875.0	1593.2	1517.7	1508.6	1716.8	1632.0
72.5°	1880.6	1541.8	1425.6	1398.0	1491.9	1410.9
75°	1788.4	1506.6	1324.3	1243.3	1232.3	1221.2
77.5°	1611.6	1486.4	1206.5	1079.4	1057.2	1064.6
80°	1348.3	1410.9	1064.6	913.5	1033.3	1020.5
82.5°	1007.4	1245.1	904.4	808.7	806.8	712.9
85°	560.0	970.7	736.8	605.9	421.8	408.9
87.5°	156.6	539.7	515.7	342.7	233.9	243.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)