

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: P269581

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269581  
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-08-LED-E1-T2R-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43179.3 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

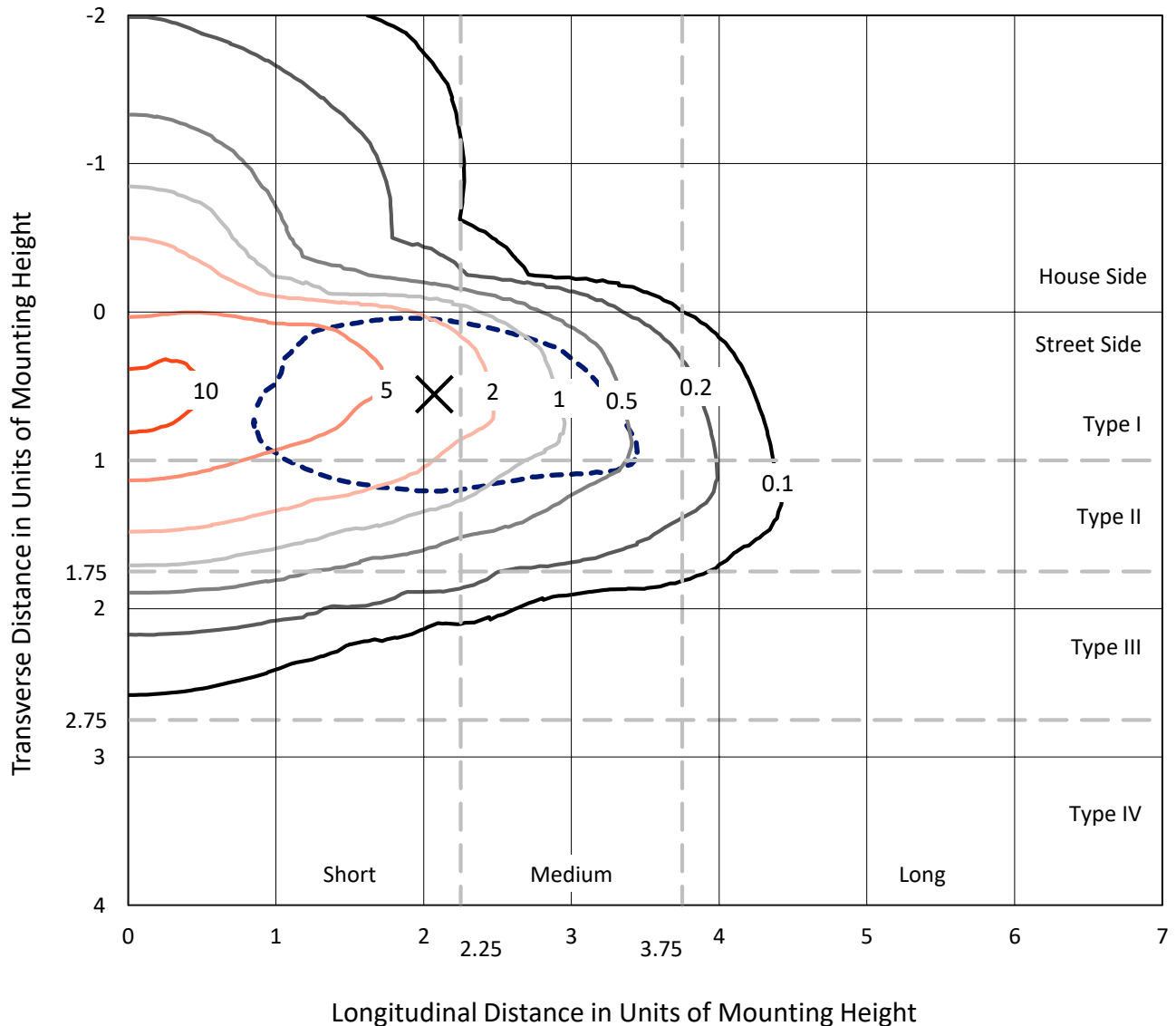
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

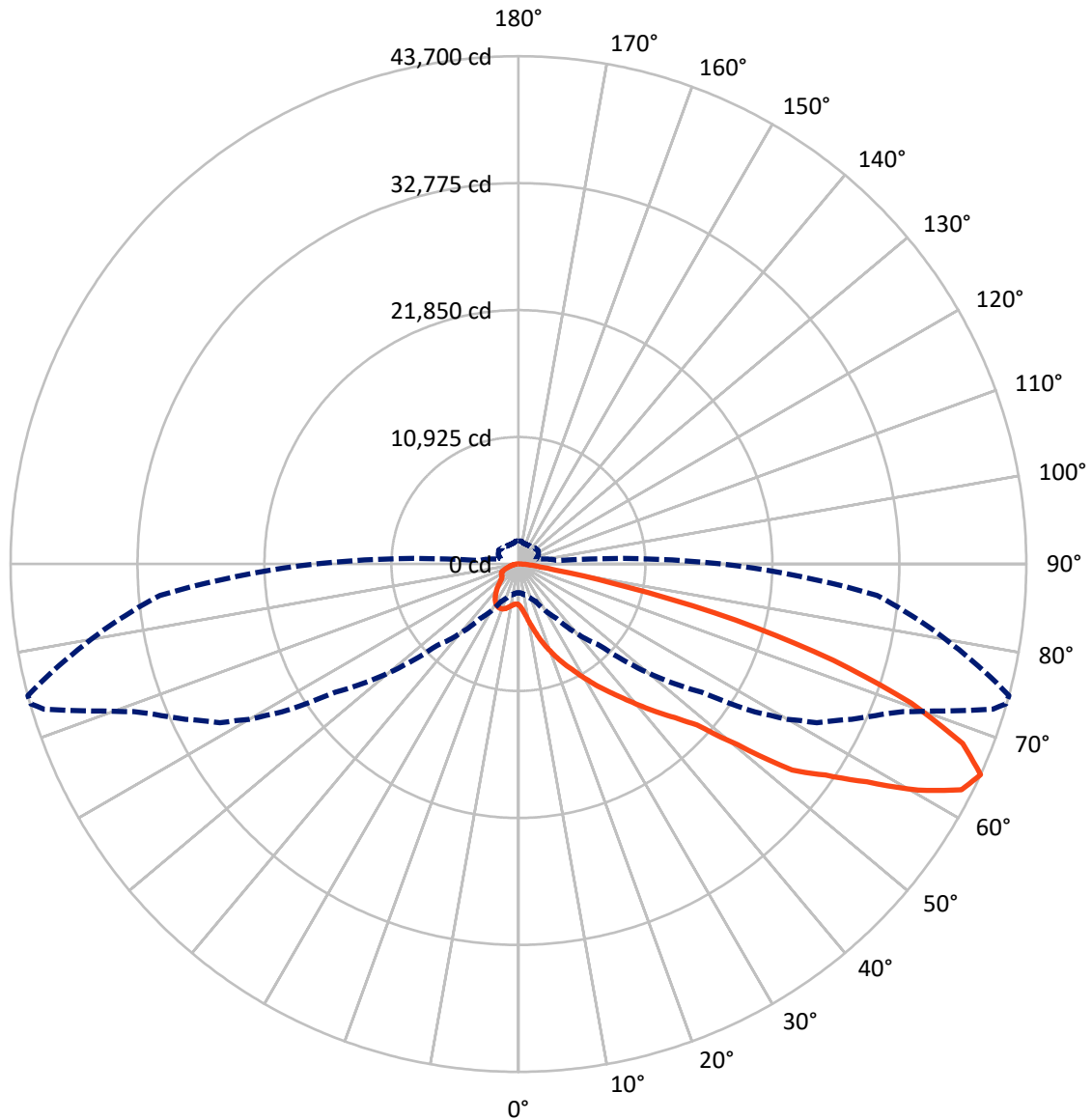
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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	6657.2	0.0	6657.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	36522.1	0.0	36522.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	43179.3	0.0	43179.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.7	1.0
10°-20°	1694.7	3.9
20°-30°	3477.0	8.1
30°-40°	5849.9	13.5
40°-50°	8082.9	18.7
50°-60°	10089.9	23.4
60°-70°	9079.9	21.0
70°-80°	3806.2	8.8
80°-90°	665.0	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°	43179.3	100.0
0°-180°	43179.3	100.0



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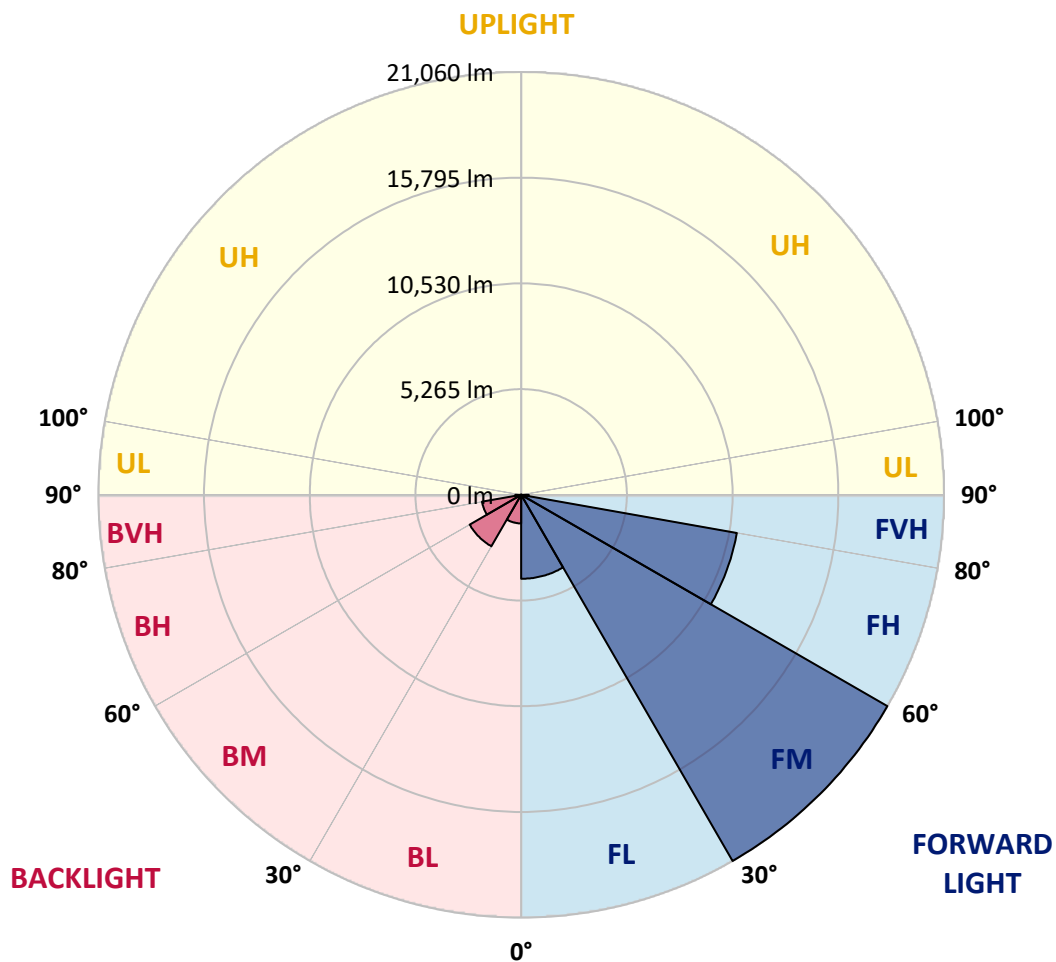
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4181.8	9.7			
FM (30°-60°)	21059.6	48.8			
FH (60°-80°)	10906.9	25.3			G4/12000
FVH (80°-90°)	373.8	0.9			G3/500
BL (0°-30°)	1423.7	3.3	B3/2500		
BM (30°-60°)	2963.2	6.9	B3/5000		
BH (60°-80°)	1979.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	291.2	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°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	4455.5	4406.4	4418.7	4336.8	4236.8	4106.0	3960.7	3958.8	3960.7	3946.6	3893.3
5°	6178.4	6119.1	6096.5	5912.6	5642.9	5258.6	4841.7	4796.7	4778.4	4731.4	4622.9
7.5°	7435.2	7402.6	7367.8	7228.8	6983.6	6554.4	5994.4	5898.4	5806.4	5783.8	5661.2
10°	8246.6	8238.4	8164.9	8128.0	7974.8	7602.9	7057.2	6965.2	6864.9	6830.3	6701.4
12.5°	8888.3	8886.4	8851.5	8861.8	8728.9	8459.1	7989.0	7905.3	7831.8	7725.5	7633.4
15°	9331.9	9333.8	9385.0	9442.2	9421.8	9239.8	8798.4	8761.6	8698.3	8624.6	8516.4
17.5°	9695.6	9705.8	9758.9	9863.2	9975.6	9961.3	9611.9	9581.1	9525.9	9425.8	9368.7
20°	10517.3	10556.1	10453.8	10453.8	10466.2	10521.3	10353.8	10329.3	10251.5	10198.4	10153.5
22.5°	11904.9	11950.0	11719.0	11483.9	11253.0	11085.4	10917.8	10948.5	10895.4	10858.5	10831.9
25°	13707.5	13742.4	13368.2	12971.7	12501.7	11888.6	11473.7	11455.2	11426.7	11404.3	11391.9
27.5°	15403.9	15418.1	15064.5	14484.1	13938.6	13057.7	12037.7	12015.3	11980.5	11937.7	11900.8
30°	16854.9	16850.9	16487.0	15933.1	15348.7	14373.8	12894.1	12824.7	12722.4	12605.9	12516.1
32.5°	18111.8	18105.7	17707.2	17132.8	16519.7	15677.7	14067.3	13924.2	13764.8	13537.8	13400.9
35°	19101.0	19097.0	18720.9	18122.0	17419.0	16906.0	15412.0	15236.2	15033.9	14729.4	14518.9
37.5°	19475.1	19475.1	19264.5	18855.8	18234.4	17883.0	16906.0	16693.5	16476.8	16131.5	15894.4
40°	19256.3	19260.4	19305.5	19229.7	18927.3	18657.5	18299.8	18173.2	17987.2	17676.5	17429.3
42.5°	18522.6	18545.1	18843.4	19209.4	19360.6	19317.6	19536.3	19479.1	19348.4	19109.1	18912.9
45°	17592.8	17662.3	17989.2	18680.1	19481.2	19887.8	20572.5	20578.6	20554.2	20425.4	20274.1
47.5°	16315.3	16413.6	16844.7	17778.7	19199.1	20441.7	21625.1	21680.2	21731.3	21647.5	21578.0
50°	14619.0	14735.5	15381.4	16619.9	18624.7	21016.0	23613.7	23862.9	24096.0	24067.4	24114.5
52.5°	12802.1	12939.0	13730.1	15109.5	17637.7	21148.8	24884.8	25291.6	25698.4	26031.4	26384.9
55°	11163.1	11089.4	11880.4	13333.5	16015.0	20550.0	26027.3	26517.8	26971.6	27380.2	27801.4
57.5°	8941.5	9062.0	9855.0	11291.9	13867.0	18859.8	26814.1	27531.6	28183.6	28859.9	29456.9
60°	6536.0	6656.5	7516.9	8976.3	11535.0	16297.1	26213.4	27300.6	28344.9	29381.1	30190.4
62.5°	3946.6	4036.4	4794.7	6184.4	8894.5	13257.8	23536.0	24962.6	26499.5	27738.0	28978.6
65°	2456.7	2507.7	2787.7	3552.1	5712.3	9898.0	19229.7	20785.2	22440.5	24012.2	25301.8
67.5°	2011.0	2029.5	2080.6	2244.1	3137.2	6454.2	14312.4	15689.9	17183.9	18704.5	20139.2
70°	1808.7	1796.5	1796.5	1806.8	2011.0	3470.3	9370.7	10267.8	11512.5	12834.9	14147.0
72.5°	1632.9	1620.7	1598.3	1567.5	1641.2	2117.3	4843.8	5520.3	6417.4	7592.6	8849.6
75°	1467.4	1451.1	1424.5	1385.6	1436.7	1598.3	2325.8	2609.8	3047.2	3672.6	4373.7
77.5°	1295.7	1275.4	1250.8	1222.1	1287.6	1242.6	1363.2	1465.3	1632.9	1833.3	2097.0
80°	1101.6	1083.1	1075.0	1060.7	1138.4	946.3	962.7	1026.0	1124.0	1232.4	1355.1
82.5°	862.5	862.5	895.3	901.3	987.1	680.6	719.5	774.6	825.7	882.9	940.2
85°	568.2	572.3	682.6	725.6	778.7	457.7	539.5	557.9	598.8	631.5	656.0
87.5°	177.9	192.1	417.0	461.9	447.5	259.6	331.0	339.3	367.9	390.4	410.7
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3893.3	3868.8	3846.4	3844.3	3827.9	3805.5	3813.7	3778.9	3781.0	3762.6	3742.1
5°	4578.0	4561.8	4479.9	4457.5	4396.1	4357.3	4351.2	4269.5	4259.3	4212.2	4161.0
7.5°	5563.2	5510.1	5395.5	5340.3	5236.1	5158.4	5121.6	5013.4	4960.3	4837.6	4782.3
10°	6595.3	6527.8	6386.8	6309.1	6208.9	6084.3	6016.8	5859.5	5798.2	5685.7	5550.8
12.5°	7551.7	7484.3	7339.2	7279.9	7147.1	7014.1	6940.7	6762.8	6683.1	6503.3	6397.0
15°	8436.6	8369.1	8242.5	8181.3	8048.4	7939.9	7841.9	7666.1	7572.2	7404.5	7265.6
17.5°	9295.0	9223.4	9113.1	9058.0	8929.2	8818.8	8712.7	8547.1	8451.0	8283.5	8158.6
20°	10092.1	10039.0	9959.2	9885.7	9756.9	9656.8	9530.1	9387.0	9248.1	9125.4	9006.9
22.5°	10786.9	10766.5	10680.7	10648.0	10537.7	10451.8	10341.5	10200.4	10100.4	9945.0	9834.6
25°	11385.7	11379.6	11338.8	11328.5	11250.9	11169.2	11144.6	11028.1	10936.1	10799.2	10684.8
27.5°	11900.8	11906.9	11896.8	11925.4	11904.9	11868.1	11870.3	11831.3	11778.1	11663.8	11563.6
30°	12473.1	12440.4	12458.9	12499.6	12512.0	12516.1	12583.5	12605.9	12601.9	12526.2	12477.2
32.5°	13282.3	13204.7	13133.2	13127.1	13168.0	13184.3	13298.8	13358.1	13409.1	13427.5	13435.7
35°	14314.5	14159.3	14010.0	13930.2	13860.8	13879.3	13961.0	14056.9	14169.4	14247.1	14339.0
37.5°	15614.3	15424.3	15160.7	14972.6	14925.6	14823.4	14876.7	14952.2	15062.5	15183.2	15342.5
40°	17190.1	16901.9	16605.6	16356.2	16221.4	16033.3	16031.3	16017.0	16084.4	16196.8	16421.6
42.5°	18706.6	18451.0	18136.4	17874.7	17698.9	17447.6	17396.5	17263.6	17294.3	17392.4	17611.1
45°	20127.0	19916.5	19724.4	19421.8	19272.6	19000.9	18915.0	18757.7	18669.7	18714.7	18933.4
47.5°	21502.5	21367.5	21167.3	20971.0	20856.6	20613.3	20503.0	20390.6	20278.2	20274.1	20503.0
50°	24183.9	24112.3	23875.2	23670.9	23726.0	23427.6	23446.0	23143.7	23280.6	23296.9	23777.1
52.5°	26703.8	26953.1	27129.0	27343.5	27482.4	27509.1	27601.1	27738.0	27903.5	28230.6	28676.1
55°	28146.8	28459.5	28641.3	28804.8	29074.6	29131.9	29285.1	29467.0	29612.1	29979.9	30358.1
57.5°	29861.5	30441.9	30723.9	30983.5	31347.3	31486.2	31741.7	31940.0	32128.1	32563.3	33021.1
60°	30918.0	31625.2	32199.4	32610.4	33066.2	33393.1	33779.3	34090.0	34531.4	35052.7	35735.3
62.5°	30078.0	31116.3	31878.6	32583.7	33203.1	33828.5	34382.3	34962.8	35633.1	36421.9	37480.6
65°	26732.4	27789.1	29095.1	29826.8	30646.2	31610.8	32453.0	33393.1	34306.6	35455.3	37020.8
67.5°	21520.9	22749.1	24216.6	24954.3	25896.6	26973.5	27917.9	29066.4	30133.3	31525.1	33460.4
70°	15512.2	17100.1	18334.5	19105.2	20204.7	21314.4	22226.0	23562.5	24445.4	25872.1	27872.9
72.5°	9822.3	11075.2	12587.5	13558.4	14535.2	15659.3	16591.2	17744.0	18567.5	19867.5	21680.2
75°	5281.0	6204.9	7533.4	8455.0	9501.5	10462.0	11553.5	12326.0	12935.0	13963.1	15434.5
77.5°	2475.0	3037.0	3709.5	4418.7	5127.9	5867.6	6587.0	7212.4	7474.1	8062.6	8931.3
80°	1502.1	1684.1	1880.2	2098.9	2395.3	2634.4	2951.2	3180.1	3196.4	3382.4	3648.1
82.5°	1003.4	1070.9	1130.2	1185.4	1261.0	1320.2	1387.7	1467.4	1500.1	1543.1	1628.8
85°	684.7	717.3	729.7	764.4	756.3	776.7	803.3	829.8	844.0	842.0	880.9
87.5°	421.0	437.4	445.5	453.7	447.5	439.5	451.7	466.0	470.1	457.7	461.9
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3746.2	3727.8	3709.5	3697.2	3693.1	3584.7	3537.7	3507.2	3441.6	3388.5	3345.6
5°	4132.6	4093.7	4063.0	4026.3	4005.8	3731.9	3631.8	3562.3	3447.9	3380.4	3319.1
7.5°	4753.8	4645.4	4582.2	4510.6	4449.2	3954.7	3789.1	3680.8	3521.4	3431.4	3361.9
10°	5458.9	5346.5	5246.3	5136.0	5039.9	4251.0	4009.9	3842.3	3631.8	3515.2	3423.4
12.5°	6245.7	6135.3	6008.7	5867.6	5745.0	4627.1	4291.9	4052.9	3764.5	3609.3	3480.6
15°	7175.7	6981.4	6828.2	6664.7	6521.6	5076.7	4620.9	4289.9	3905.7	3695.1	3523.4
17.5°	8040.2	7835.7	7627.2	7484.3	7318.8	5581.4	4952.0	4531.1	4022.2	3750.3	3531.6
20°	8884.2	8661.5	8481.6	8289.5	8115.7	6104.7	5305.6	4743.6	4097.8	3752.4	3480.6
22.5°	9628.2	9489.2	9289.0	9080.4	8904.7	6628.0	5636.8	4923.4	4126.4	3705.4	3390.7
25°	10474.2	10327.2	10081.9	9906.1	9709.9	7161.4	5961.6	5062.4	4110.0	3617.5	3251.7
27.5°	11377.7	11214.1	10962.7	10778.9	10541.7	7715.3	6260.1	5162.6	4048.8	3474.5	3065.6
30°	12319.9	12170.6	11923.4	11737.3	11498.2	8301.7	6593.2	5230.0	3926.0	3276.2	2849.1
32.5°	13331.4	13206.8	12961.6	12767.4	12512.0	8937.3	6903.8	5250.5	3740.2	3041.1	2620.0
35°	14292.0	14206.2	13999.7	13817.9	13552.2	9538.3	7233.0	5240.3	3519.4	2783.6	2411.6
37.5°	15373.2	15322.1	15220.0	14988.9	14664.0	10353.8	7627.2	5197.4	3249.6	2528.1	2252.2
40°	16525.8	16530.0	16419.6	16262.2	15959.7	11342.9	8097.4	5113.5	2955.2	2303.3	2107.2
42.5°	17745.9	17809.3	17756.2	17643.8	17353.5	12340.2	8659.4	5011.4	2669.1	2084.6	1964.1
45°	19143.9	19221.7	19303.4	19137.9	18855.8	13656.5	9399.2	4878.4	2360.6	1902.7	1866.0
47.5°	20756.4	20879.0	20952.6	20954.8	20672.7	15287.4	10601.0	4798.7	2086.8	1780.1	1819.0
50°	24159.3	24198.2	24371.8	24674.4	24457.8	19062.3	12700.0	4749.7	1900.8	1704.5	1784.3
52.5°	29062.3	29489.5	29790.0	29769.6	29475.1	21459.5	13856.7	4496.2	1790.3	1675.9	1767.9
55°	31059.1	31592.5	32148.5	32295.5	32066.6	23505.3	14950.1	4242.9	1737.2	1696.3	1774.1
57.5°	33720.0	34619.3	35381.6	35702.5	35371.4	26123.4	16388.9	4110.0	1720.9	1751.5	1812.8
60°	36828.6	37940.5	38941.9	39518.2	39518.2	29131.9	17880.9	4054.8	1698.3	1833.3	1878.3
62.5°	38825.5	40458.4	41970.8	42814.8	42790.4	31226.7	18543.1	3866.8	1647.3	1890.6	1968.1
65°	38833.5	40775.1	42702.4	43650.7	43699.8	30969.2	17449.7	3415.1	1553.3	1898.7	2058.0
67.5°	35596.2	37666.7	39912.7	40973.4	41218.6	28508.5	15105.4	2808.1	1400.0	1816.9	2090.7
70°	30063.8	32085.0	34378.1	35420.4	35855.8	24302.3	12166.6	2164.3	1203.8	1637.0	2023.3
72.5°	23685.3	25667.6	27263.7	28026.1	28365.4	18575.8	8859.8	1635.1	987.1	1379.5	1841.4
75°	16769.1	18257.0	19105.2	19274.8	19327.9	11197.8	5383.3	1216.0	813.4	1072.9	1555.3
77.5°	9464.7	10102.2	10032.8	10108.4	9478.9	4322.6	2344.1	870.6	670.3	815.4	1205.9
80°	3695.1	3809.6	3578.7	3507.2	3216.9	1608.4	1034.2	607.1	535.5	617.2	844.0
82.5°	1628.8	1682.0	1632.9	1645.2	1573.7	829.8	619.2	439.5	408.8	451.7	560.1
85°	897.1	913.5	909.4	936.0	897.1	331.0	294.4	269.9	286.1	306.5	359.7
87.5°	437.4	441.4	427.1	449.6	435.3	167.7	145.0	153.3	167.7	171.7	171.7
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°	3509.1	3509.1	3509.1	3509.1	3509.1	3509.1
2.5°	3314.9	3298.7	3300.7	3296.6	3288.4	3288.4
5°	3286.4	3270.0	3270.0	3266.0	3255.6	3257.8
7.5°	3314.9	3288.4	3278.3	3263.9	3249.6	3249.6
10°	3347.8	3300.7	3272.0	3247.6	3229.1	3229.1
12.5°	3372.1	3298.7	3251.7	3218.9	3200.5	3200.5
15°	3380.4	3284.4	3218.9	3180.1	3163.7	3161.8
17.5°	3353.8	3229.1	3149.5	3104.5	3084.1	3078.0
20°	3272.0	3128.9	3032.9	2981.8	2953.3	2942.9
22.5°	3149.5	2986.0	2873.6	2820.4	2783.6	2777.5
25°	2977.7	2802.1	2691.6	2640.6	2620.0	2614.0
27.5°	2777.5	2614.0	2519.9	2487.2	2468.9	2466.8
30°	2587.4	2448.4	2378.9	2354.4	2331.9	2327.9
32.5°	2409.7	2321.7	2295.2	2260.4	2207.2	2201.1
35°	2283.0	2274.7	2256.4	2178.7	2113.3	2094.8
37.5°	2205.2	2280.8	2186.8	2033.6	1986.5	1982.5
40°	2160.2	2217.5	2056.0	2003.0	2007.0	2003.0
42.5°	2058.0	2117.3	2060.2	2035.6	2052.0	2056.0
45°	1955.9	2021.2	2090.7	2074.5	2113.3	2113.3
47.5°	1898.7	1996.8	2088.6	2088.6	2146.0	2166.4
50°	1833.3	1976.4	2056.0	2084.6	2129.6	2113.3
52.5°	1829.2	1941.5	2009.0	2060.2	2080.6	2062.1
55°	1835.2	1913.0	1962.0	2019.2	2043.7	2045.8
57.5°	1843.5	1896.6	1929.3	1955.9	2029.5	2029.5
60°	1864.0	1882.3	1900.8	1914.9	2011.0	2013.1
62.5°	1896.6	1867.9	1864.0	1878.3	2000.9	1992.7
65°	1947.7	1847.5	1816.9	1831.3	1990.6	1966.1
67.5°	2017.2	1816.9	1757.7	1767.9	1982.5	1929.3
70°	2080.6	1767.9	1684.1	1673.8	1904.8	1810.8
72.5°	2086.8	1710.6	1581.8	1551.3	1655.4	1565.6
75°	1984.4	1671.7	1469.4	1379.5	1367.3	1355.1
77.5°	1788.3	1649.3	1338.7	1197.6	1173.1	1181.4
80°	1496.0	1565.6	1181.4	1013.6	1146.5	1132.3
82.5°	1117.9	1381.7	1003.4	897.1	895.3	791.0
85°	621.3	1077.1	817.5	672.4	468.0	453.7
87.5°	173.7	598.8	572.3	380.2	259.6	269.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)