

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: P192136

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
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-SLR-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41924 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

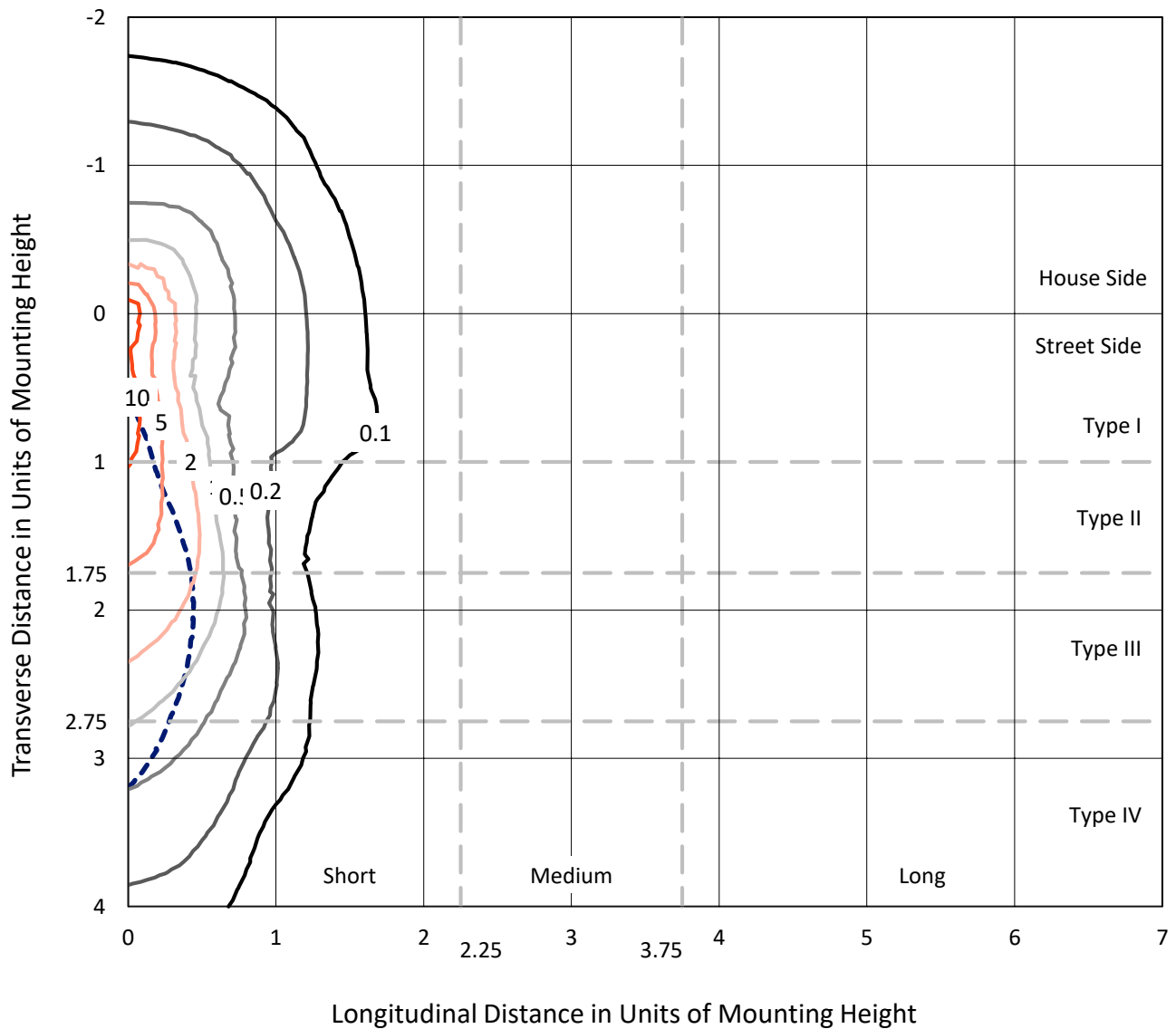
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

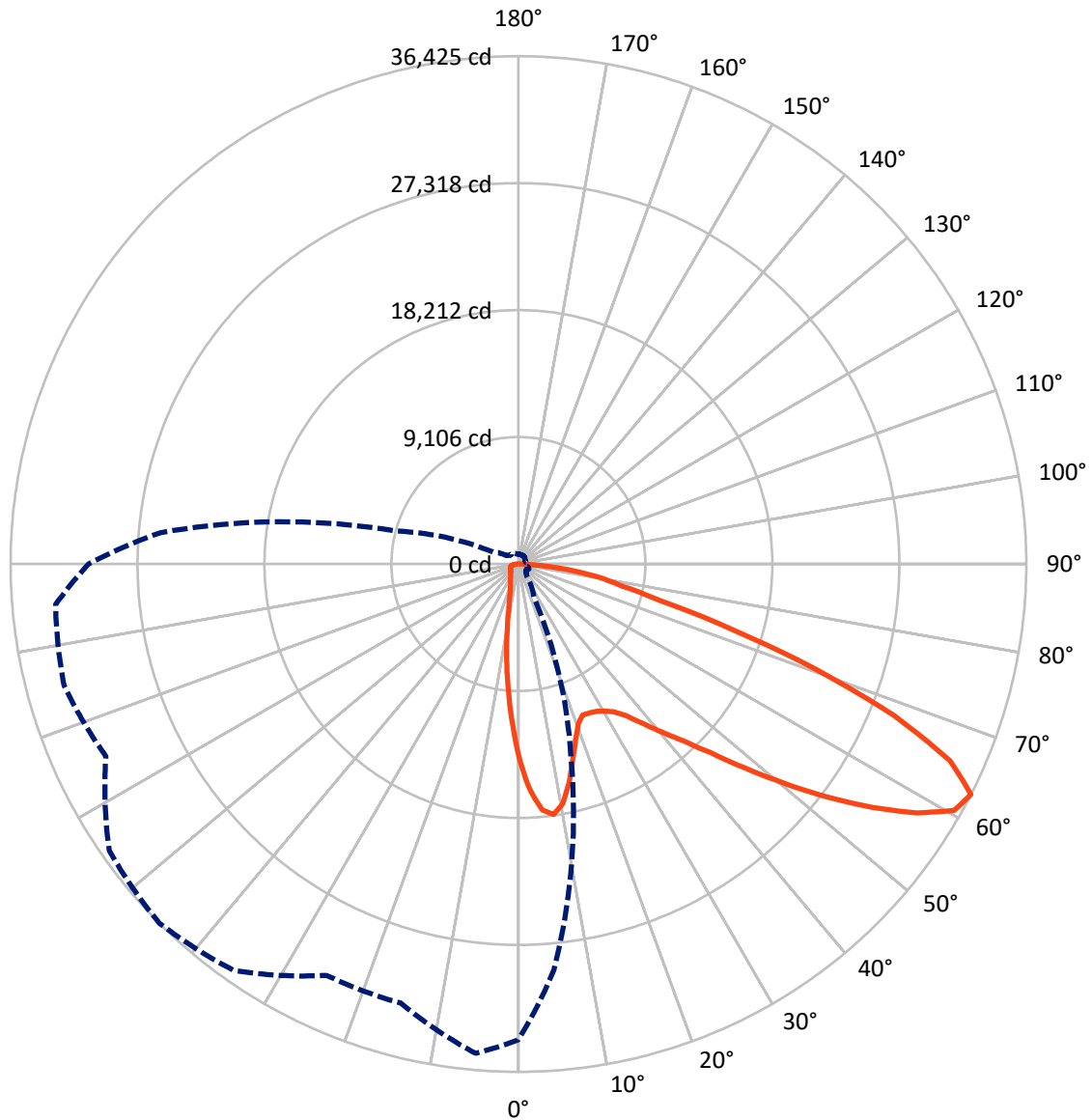
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6937.8	0.0	6937.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	34986.2	0.0	34986.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	41924.0	0.0	41924.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1031.1	2.5
10°-20°	1890.7	4.5
20°-30°	2756.7	6.6
30°-40°	4245.7	10.1
40°-50°	6248.6	14.9
50°-60°	9165.3	21.9
60°-70°	10245.5	24.4
70°-80°	5016.1	12.0
80°-90°	1324.4	3.2
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°	41924.0	100.0
0°-180°	41924.0	100.0



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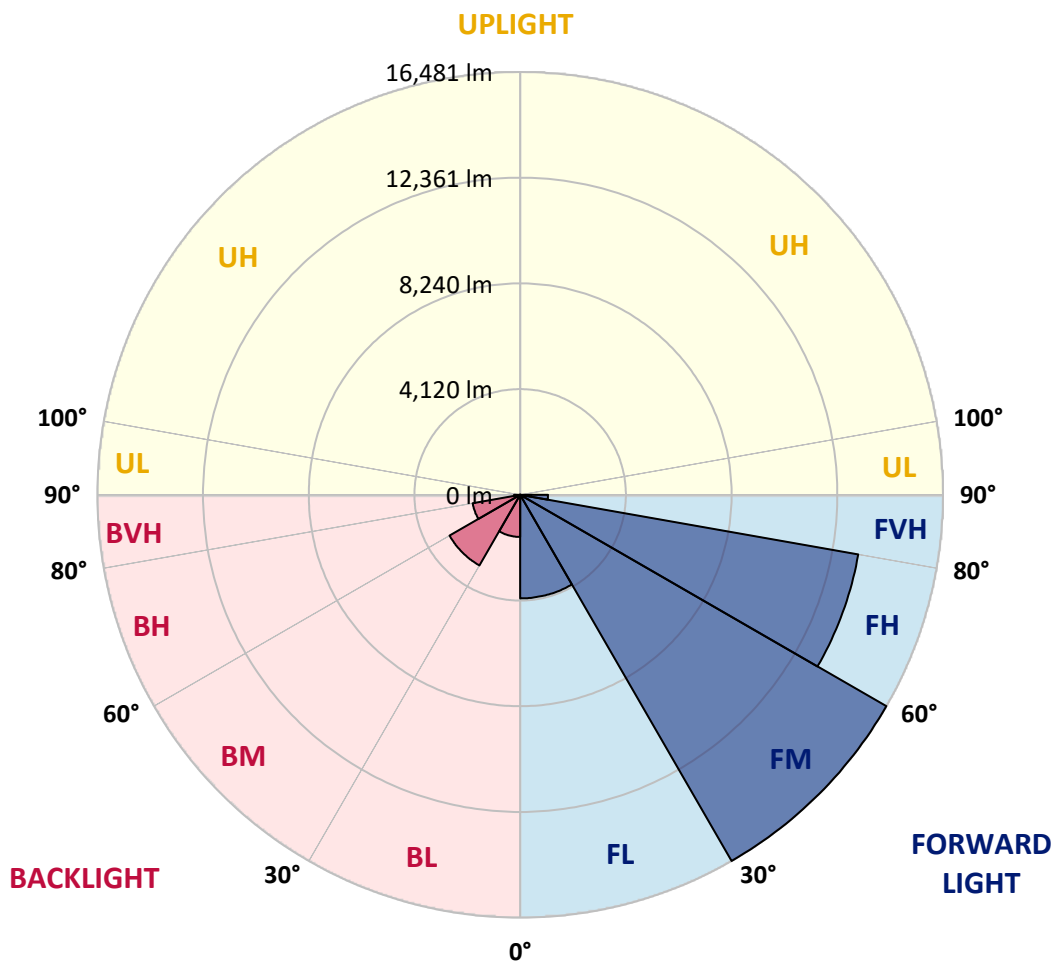
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4037.1	9.6			
FM	(30°-60°)	16480.7	39.3			
FH	(60°-80°)	13380.7	31.9			G5
FVH	(80°-90°)	1087.6	2.6			G5
BL	(0°-30°)	1641.4	3.9	B3/2500		
BM	(30°-60°)	3178.9	7.6	B3/5000		
BH	(60°-80°)	1880.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	14717.3	14417.7	13919.9	13401.4	13085.6	12716.9	12428.8	12175.3	11668.3	11569.2	11659.1
5°	13839.2	13237.7	12299.7	11354.9	10725.7	10050.4	9525.0	9103.2	8460.3	8347.3	8483.3
7.5°	12431.1	11712.1	10472.2	9266.9	8377.3	7533.8	6966.9	6515.2	6012.7	5796.1	5809.9
10°	11216.6	10405.4	8939.6	7628.3	6900.0	6330.8	5853.7	5390.5	4881.2	4547.0	4454.8
12.5°	10536.7	9603.3	7914.1	6743.3	6068.1	5468.9	4954.9	4459.4	3915.5	3574.5	3477.7
15°	10419.2	9405.1	7529.2	6176.4	5330.6	4572.4	3966.2	3413.1	2853.1	2576.6	2518.9
17.5°	10928.5	9760.1	7404.7	5671.7	4636.9	3701.2	2956.8	2339.2	1882.9	1744.6	1733.1
20°	11905.7	10442.2	7388.6	5196.9	3952.4	2855.4	2060.3	1610.9	1410.4	1371.2	1373.6
22.5°	13276.9	11500.0	7586.8	4839.7	3323.3	2129.5	1548.7	1348.2	1269.8	1233.0	1233.0
25°	15051.5	12956.6	8043.1	4579.3	2777.1	1700.8	1366.6	1246.8	1173.1	1147.7	1152.3
27.5°	16770.7	14373.9	8573.2	4374.2	2419.8	1544.1	1295.2	1186.9	1122.3	1097.0	1108.5
30°	18112.0	15632.2	9015.7	4095.3	2237.8	1500.3	1320.5	1209.9	1117.7	1078.6	1080.9
32.5°	19222.8	16733.8	9386.7	3894.8	2076.5	1286.0	1138.5	1090.1	1078.6	1032.5	1009.4
35°	20642.5	17934.5	9635.6	3899.4	2000.4	1147.7	1014.0	928.8	866.5	813.5	813.5
37.5°	22306.4	19312.7	9900.6	3952.4	1972.8	1067.0	970.2	885.0	827.4	776.7	767.4
40°	23951.9	20663.2	10142.6	4003.1	1956.6	1018.6	935.7	857.3	804.3	753.6	739.8
42.5°	25350.8	21774.0	10359.3	4028.5	1901.3	1014.0	910.3	838.9	788.2	732.9	719.0
45°	26385.6	22705.1	10592.0	4067.7	1846.0	1032.5	910.3	836.6	774.4	721.3	707.5
47.5°	27309.7	23797.5	10981.5	4067.7	1779.2	997.9	940.3	838.9	772.0	716.7	705.2
50°	28547.3	25295.5	11719.0	3973.2	1684.7	961.0	991.0	829.7	751.3	707.5	693.7
52.5°	30252.7	27215.2	12889.7	3809.5	1539.5	889.6	984.1	825.1	730.6	684.5	668.3
55°	32269.3	29271.0	14166.5	3618.3	1322.9	838.9	949.5	813.5	707.5	656.8	640.7
57.5°	33843.3	30686.0	15065.3	3323.3	1133.9	811.2	841.2	802.0	679.9	626.9	613.0
60°	34470.2	30630.7	15311.9	2929.2	1041.7	788.2	735.2	898.8	656.8	603.8	587.7
62.5°	34131.4	29215.6	14620.5	2652.6	1020.9	758.2	689.1	832.0	638.4	587.7	564.6
65°	32566.6	26708.2	12788.3	2578.9	1080.9	728.3	659.1	652.2	613.0	564.6	541.6
67.5°	29158.0	22960.9	10239.4	2585.8	1156.9	698.3	629.2	596.9	578.5	539.3	518.5
70°	23749.1	18153.5	7632.9	2604.2	1196.1	663.7	596.9	562.3	541.6	502.4	488.6
72.5°	17462.1	13991.3	5544.9	2484.4	1203.0	624.6	553.1	523.1	502.4	460.9	449.4
75°	11947.1	10702.6	3846.4	2058.0	1048.6	569.2	504.7	477.1	463.2	412.5	405.6
77.5°	8727.6	8033.9	2461.3	1528.0	808.9	500.1	444.8	424.0	414.8	359.5	350.3
80°	7003.7	6356.1	1539.5	1046.3	592.3	419.4	373.3	361.8	352.6	297.3	290.4
82.5°	4858.1	4256.6	988.7	679.9	444.8	325.0	295.0	290.4	276.6	225.9	218.9
85°	2562.7	2311.5	626.9	463.2	322.6	223.5	205.1	205.1	198.2	149.8	145.2
87.5°	327.3	532.4	318.0	242.0	177.5	99.1	99.1	96.8	103.7	85.3	73.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	11447.0	11557.7	11451.6	11458.6	11576.1	11926.4	12085.4	12216.8	12357.4	12449.5	12491.0
5°	8296.6	8554.7	8642.3	8826.7	9098.6	9545.7	9723.2	9852.2	9937.5	9988.2	10009.0
7.5°	5674.0	5830.7	6005.8	6303.1	6895.4	7158.1	7275.7	7245.7	7148.9	7114.4	7079.8
10°	4277.4	4215.1	4182.9	4346.5	4825.9	5090.9	5173.9	5093.2	5040.2	5051.7	5109.3
12.5°	3314.0	3205.7	3074.4	3055.9	3371.7	3609.0	3662.0	3666.6	3763.4	3848.7	3975.5
15°	2415.2	2403.7	2339.2	2300.0	2479.8	2673.4	2696.4	2737.9	2825.5	2887.7	2998.3
17.5°	1703.1	1765.3	1816.0	1841.4	1977.4	2115.6	2090.3	2069.5	2053.4	2053.4	2106.4
20°	1373.6	1415.0	1479.6	1553.3	1691.6	1788.4	1726.2	1643.2	1583.3	1564.8	1571.7
22.5°	1237.6	1269.8	1306.7	1371.2	1495.7	1562.5	1495.7	1435.8	1375.9	1355.1	1348.2
25°	1168.4	1209.9	1244.5	1292.9	1385.1	1431.2	1366.6	1322.9	1286.0	1260.6	1242.2
27.5°	1129.3	1166.1	1175.4	1198.4	1276.8	1318.2	1286.0	1267.5	1244.5	1221.4	1198.4
30°	1087.8	1080.9	1064.7	1067.0	1129.3	1170.7	1168.4	1173.1	1170.7	1163.8	1159.2
32.5°	993.3	979.5	965.6	979.5	1037.1	1074.0	1076.3	1085.5	1085.5	1083.2	1101.6
35°	827.4	852.7	868.8	910.3	979.5	1011.7	997.9	974.9	933.4	908.0	905.7
37.5°	765.1	769.7	797.4	855.0	931.1	961.0	940.3	887.3	859.6	855.0	861.9
40°	735.2	739.8	755.9	808.9	885.0	914.9	896.5	857.3	832.0	829.7	841.2
42.5°	714.4	719.0	728.3	765.1	827.4	864.2	866.5	838.9	808.9	811.2	822.7
45°	702.9	705.2	702.9	721.3	779.0	822.7	841.2	822.7	797.4	802.0	815.8
47.5°	700.6	693.7	684.5	689.1	749.0	792.8	815.8	808.9	797.4	802.0	813.5
50°	691.4	675.3	663.7	661.4	721.3	767.4	788.2	788.2	792.8	802.0	813.5
52.5°	663.7	645.3	645.3	638.4	702.9	746.7	760.5	762.8	769.7	785.9	802.0
55°	629.2	622.2	629.2	617.6	689.1	730.6	737.5	742.1	746.7	760.5	783.6
57.5°	599.2	590.0	606.1	601.5	677.6	714.4	714.4	723.7	723.7	742.1	760.5
60°	583.1	564.6	571.5	576.2	661.4	700.6	696.0	705.2	709.8	726.0	739.8
62.5°	562.3	546.2	546.2	557.7	643.0	679.9	677.6	684.5	702.9	707.5	721.3
65°	537.0	530.1	523.1	537.0	624.6	656.8	659.1	668.3	684.5	689.1	700.6
67.5°	511.6	513.9	500.1	513.9	608.4	633.8	633.8	652.2	659.1	668.3	679.9
70°	484.0	486.3	474.8	490.9	596.9	608.4	606.1	631.5	636.1	643.0	654.5
72.5°	449.4	449.4	444.8	467.8	578.5	583.1	578.5	599.2	601.5	608.4	613.0
75°	412.5	412.5	407.9	440.2	566.9	555.4	541.6	557.7	562.3	566.9	566.9
77.5°	364.1	368.7	368.7	407.9	527.8	543.9	497.8	507.0	513.9	516.2	509.3
80°	304.2	315.7	320.3	371.0	442.5	502.4	444.8	451.7	454.0	454.0	444.8
82.5°	232.8	253.5	265.0	320.3	338.8	421.7	387.2	394.1	387.2	373.3	368.7
85°	161.3	189.0	202.8	244.3	255.8	325.0	322.6	322.6	308.8	290.4	288.1
87.5°	87.6	103.7	112.9	145.2	175.2	218.9	237.4	230.5	218.9	207.4	209.7
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	12707.7	13021.1	13521.2	13903.8	14288.6	14659.7	15060.7	15367.2	15627.6	15729.0	16037.8
5°	10218.7	10610.5	11082.9	11935.6	12539.4	13205.5	13975.2	14993.8	15385.6	15927.2	16814.5
7.5°	7225.0	7579.9	8340.4	9029.5	9884.5	10827.1	11866.5	13272.3	13786.2	14655.1	16100.1
10°	5395.1	5807.6	6418.4	6999.1	7752.7	8716.1	9909.9	11481.6	12106.2	13048.8	14712.7
12.5°	4346.5	4832.8	5480.4	6026.6	6609.6	7289.5	8448.7	10172.6	11009.2	11834.2	13516.6
15°	3339.4	3848.7	4450.2	5143.9	5786.9	6519.8	7734.3	9619.5	10582.8	11442.4	12878.2
17.5°	2311.5	2747.1	3505.3	4229.0	5051.7	5989.7	7536.1	9737.0	10887.0	11878.0	12988.8
20°	1638.6	1887.5	2509.7	3348.6	4374.2	5551.8	7499.2	10354.7	11850.3	12981.9	13698.7
22.5°	1378.2	1470.3	1832.2	2601.9	3786.5	5224.6	7628.3	11221.2	13150.2	14595.1	14830.2
25°	1256.0	1311.3	1500.3	2041.9	3263.3	4987.2	8063.9	12511.8	14758.8	16208.4	16166.9
27.5°	1189.2	1246.8	1371.2	1723.9	2869.3	4839.7	8499.4	14042.0	16597.9	17959.9	17443.7
30°	1168.4	1246.8	1378.2	1624.8	2588.1	4606.9	8856.6	15385.6	18012.9	19142.2	18024.4
32.5°	1152.3	1163.8	1223.8	1401.2	2320.8	4335.0	9098.6	16590.9	19398.0	20266.8	18861.0
35°	931.1	988.7	1085.5	1256.0	2164.0	4171.4	9098.6	17630.3	20762.3	21403.0	19658.4
37.5°	896.5	947.2	1032.5	1177.7	2076.5	4090.7	8916.6	18632.8	22156.6	22691.3	20315.2
40°	878.1	919.5	1000.2	1117.7	2039.6	3998.5	8651.5	19517.8	23518.6	23981.9	20928.2
42.5°	864.2	901.1	977.2	1080.9	1991.2	3897.1	8437.2	20227.6	24700.9	25083.5	21513.6
45°	857.3	896.5	979.5	1099.3	1894.4	3763.4	8365.8	20995.1	25673.5	26003.0	22147.4
47.5°	857.3	903.4	991.0	1138.5	1779.2	3625.2	8589.3	22006.8	26593.0	26754.3	22894.1
50°	850.4	901.1	1023.3	1099.3	1610.9	3450.0	9114.8	23281.3	27588.6	27607.0	23839.0
52.5°	836.6	896.5	1101.6	1076.3	1417.3	3219.6	9824.6	24917.5	29061.2	29171.9	25318.5
55°	820.4	889.6	1080.9	1023.3	1258.3	2945.3	10405.4	26906.4	31130.8	31437.3	27494.1
57.5°	799.7	880.4	1046.3	949.5	1154.6	2592.7	10615.1	28362.9	32575.8	33345.5	29946.2
60°	781.3	873.5	944.9	905.7	1090.1	2295.4	10209.5	28074.9	32476.7	34136.0	32119.5
62.5°	762.8	880.4	861.9	878.1	1060.1	2104.1	9149.3	25767.9	30833.5	33320.2	33730.4
65°	742.1	818.1	813.5	855.0	1053.2	2028.1	7584.5	22308.7	27657.7	30741.3	34110.7
67.5°	714.4	755.9	779.0	825.1	1076.3	1961.2	6121.1	18402.4	23244.4	26876.5	32128.7
70°	684.5	719.0	744.4	788.2	1062.4	1931.3	5090.9	14512.2	18443.9	22027.5	28217.7
72.5°	645.3	675.3	698.3	739.8	1048.6	1915.1	4300.4	11686.7	13770.1	16362.8	22942.5
75°	599.2	626.9	643.0	684.5	1004.8	1753.8	3380.9	9889.1	10303.9	11382.5	18273.3
77.5°	546.2	566.9	580.8	626.9	889.6	1458.8	2445.2	7628.3	8001.6	8264.4	14009.8
80°	484.0	504.7	511.6	555.4	737.5	1140.8	1594.8	5634.8	5985.1	6045.0	9149.3
82.5°	412.5	433.3	433.3	474.8	603.8	820.4	1046.3	3860.2	3929.4	4132.2	6466.8
85°	331.9	348.0	348.0	368.7	467.8	613.0	719.0	1938.2	1917.4	2189.4	5602.5
87.5°	237.4	248.9	260.4	265.0	334.2	405.6	433.3	590.0	389.5	447.1	3597.5
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2	14164.2
2.5°	16270.6	16402.0	16268.3	16171.5	15754.4	15411.0	14952.4	14717.3
5°	17489.8	17823.9	17711.0	17305.4	16434.2	15454.8	14341.6	13839.2
7.5°	17342.3	18118.9	18137.3	17379.1	16095.5	14652.8	13145.5	12431.1
10°	16194.6	17187.8	17471.3	16736.1	15374.1	13760.9	12032.4	11216.6
12.5°	14913.2	15885.7	16102.4	15848.9	14710.4	13090.2	11336.4	10536.7
15°	13864.6	14300.2	14558.3	14779.5	14141.1	12822.9	11297.2	10419.2
17.5°	13226.2	13177.8	13251.6	13636.4	13744.7	13129.4	11896.4	10928.5
20°	12995.7	12256.0	12237.5	12767.6	13558.1	13860.0	13067.2	11905.7
22.5°	13122.5	11924.1	11772.0	12401.2	13657.2	14913.2	14602.1	13276.9
25°	13560.4	11951.8	11829.6	12438.0	14016.7	16035.5	16259.1	15051.5
27.5°	14249.5	12126.9	11965.6	12590.1	14493.7	16978.1	17890.8	16770.7
30°	14904.0	12431.1	12230.6	12889.7	14929.3	17351.5	18891.0	18112.0
32.5°	15699.1	13000.4	12647.7	13440.5	15468.6	17946.1	19782.8	19222.8
35°	16478.0	13811.6	13373.7	14290.9	16070.1	18685.8	20801.5	20642.5
37.5°	17333.0	14871.7	14509.9	15390.2	16892.9	19384.1	22101.3	22306.4
40°	18245.7	16277.5	15848.9	16994.3	18169.6	20259.9	23458.7	23951.9
42.5°	19165.2	17837.7	17326.1	18487.6	19573.1	21124.1	24620.2	25350.8
45°	20218.4	19531.6	19289.7	20545.7	20921.3	21946.9	25477.6	26385.6
47.5°	21444.5	21453.7	21843.2	22345.6	22281.1	22877.9	26339.5	27309.7
50°	22875.6	23852.8	24712.4	25046.6	23682.3	23878.2	27535.6	28547.3
52.5°	24594.9	26722.1	27786.8	27567.8	25191.8	25099.6	29430.0	30252.7
55°	26745.1	29759.5	30817.4	30660.6	26927.2	26763.5	31789.9	32269.3
57.5°	29234.1	32702.5	33675.1	32969.9	29010.5	28588.8	33741.9	33843.3
60°	31421.2	35034.8	35887.5	35106.3	31112.4	30531.6	34961.1	34470.2
62.5°	32638.0	35825.3	36424.5	35583.3	32552.7	32601.1	35228.4	34131.4
65°	32094.1	33827.2	34020.8	33951.6	32181.7	33801.8	34267.4	32566.6
67.5°	29116.6	28775.5	29100.4	29549.8	29001.3	32220.9	31605.5	29158.0
70°	23871.2	21997.6	22645.2	22947.1	23196.0	27726.9	27431.9	23749.1
72.5°	17989.9	15411.0	15922.6	15860.4	17012.7	22239.6	21333.9	17462.1
75°	12746.8	10449.1	10513.7	10488.3	11871.1	17399.9	15447.9	11947.1
77.5°	8918.9	7570.7	7605.2	7748.1	7980.9	13122.5	11036.8	8727.6
80°	6132.6	5745.4	5936.7	5948.2	5531.1	8815.2	8153.7	7003.7
82.5°	4567.8	3993.9	3947.8	4014.6	4335.0	7142.0	6266.3	4858.1
85°	3740.4	2364.5	1901.3	2383.0	3841.8	7072.9	4162.1	2562.7
87.5°	2106.4	1122.3	507.0	940.3	1532.6	4683.0	1203.0	327.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)