

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: P192114

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192114  
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-06-LED-E1-SLR-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA 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: 20613 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

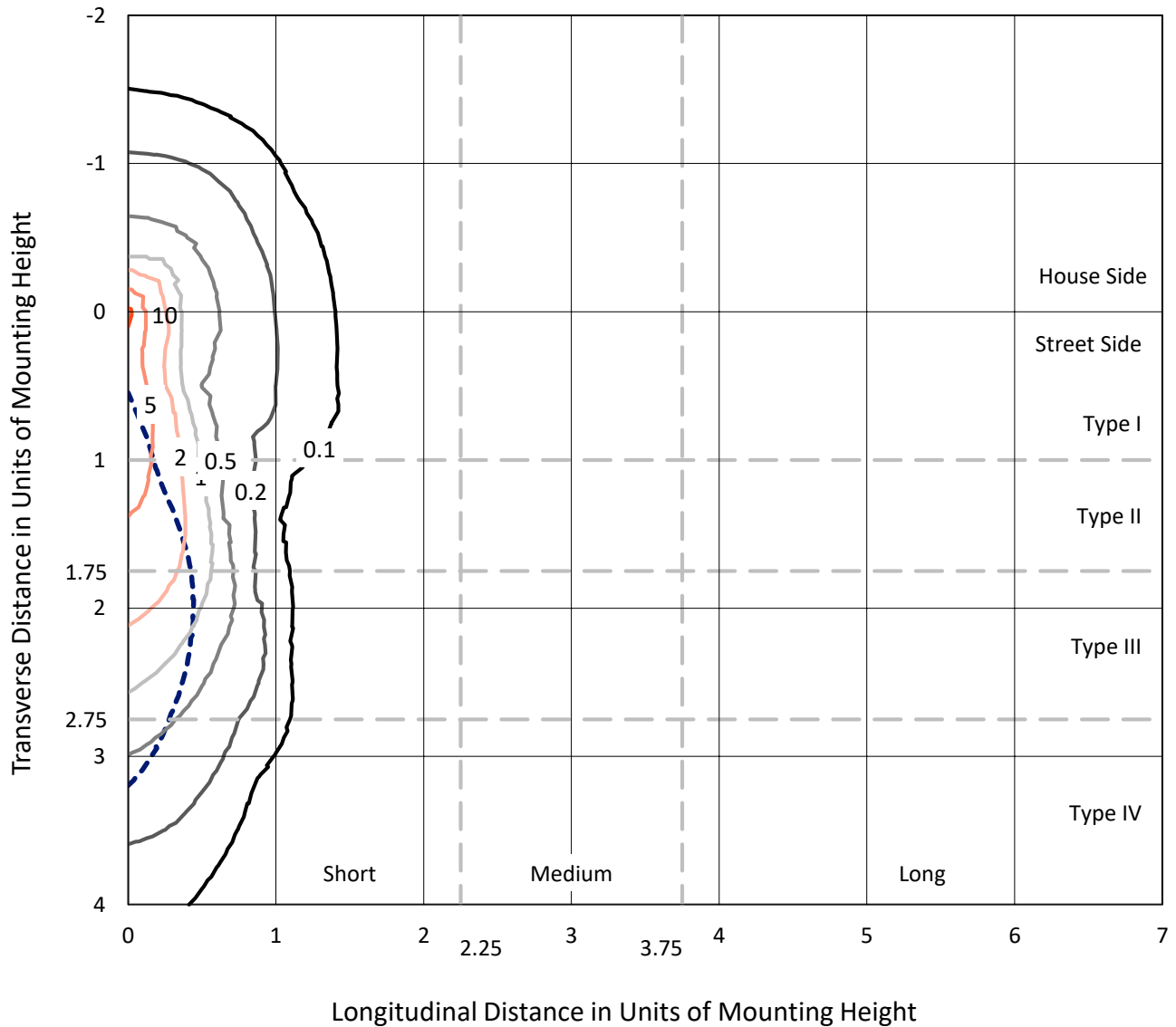
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

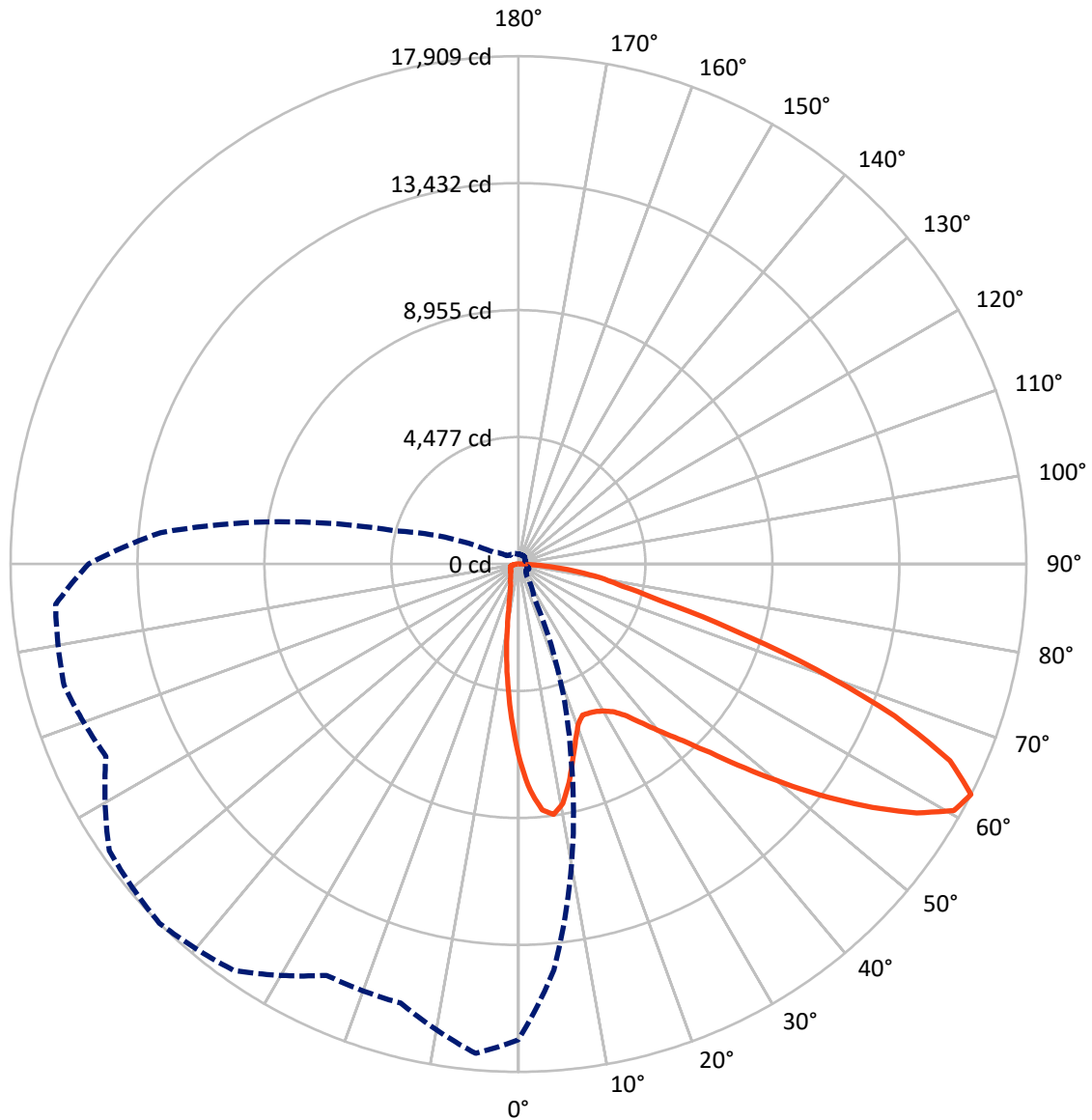
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3411.2	0.0	3411.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17201.8	0.0	17201.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20613.0	0.0	20613.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.0	2.5
10°-20°	929.6	4.5
20°-30°	1355.4	6.6
30°-40°	2087.5	10.1
40°-50°	3072.3	14.9
50°-60°	4506.4	21.9
60°-70°	5037.5	24.4
70°-80°	2466.3	12.0
80°-90°	651.2	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°	20613.0	100.0
0°-180°	20613.0	100.0

**Coefficient of Utilization**



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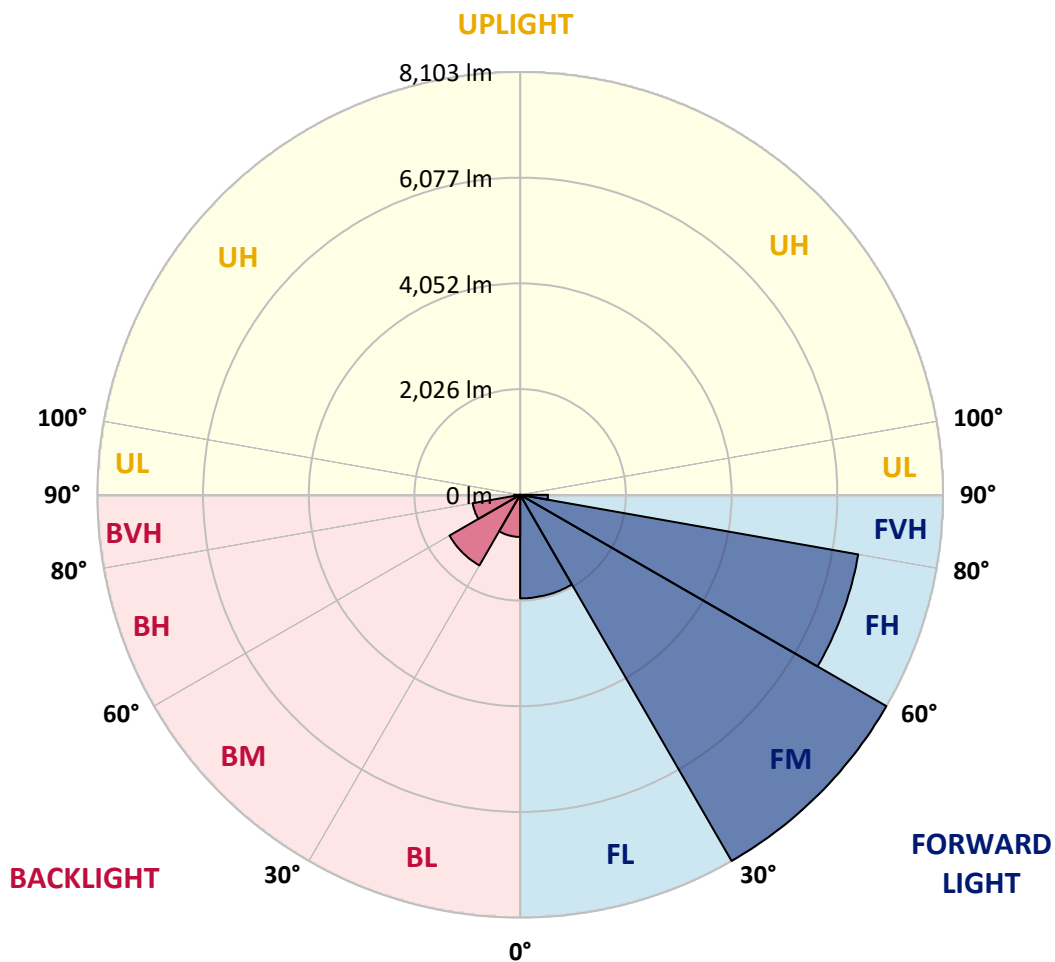
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7050-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.0	9.6			
FM (30°-60°)	8103.2	39.3			
FH (60°-80°)	6579.0	31.9			G3/7500
FVH (80°-90°)	534.8	2.6			G4/750
BL (0°-30°)	807.0	3.9	B2/1000		
BM (30°-60°)	1563.0	7.6	B2/2500		
BH (60°-80°)	924.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	116.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	7236.1	7088.8	6844.1	6589.1	6433.9	6252.6	6110.9	5986.3	5737.0	5688.3	5732.5
5°	6804.4	6508.7	6047.5	5582.9	5273.6	4941.6	4683.2	4475.8	4159.7	4104.2	4171.0
7.5°	6112.1	5758.5	5148.9	4556.3	4118.9	3704.2	3425.4	3203.3	2956.3	2849.8	2856.6
10°	5514.9	5116.1	4395.4	3750.6	3392.6	3112.7	2878.1	2650.4	2400.0	2235.7	2190.3
12.5°	5180.6	4721.7	3891.1	3315.5	2983.5	2688.9	2436.2	2192.6	1925.2	1757.5	1709.9
15°	5122.9	4624.3	3701.9	3036.8	2620.9	2248.1	1950.1	1678.2	1402.8	1266.8	1238.5
17.5°	5373.3	4798.8	3640.7	2788.6	2279.8	1819.8	1453.8	1150.1	925.8	857.8	852.1
20°	5853.7	5134.2	3632.8	2555.2	1943.3	1403.9	1013.0	792.1	693.5	674.2	675.3
22.5°	6527.9	5654.3	3730.2	2379.6	1634.0	1047.0	761.5	662.9	624.4	606.2	606.2
25°	7400.4	6370.4	3954.6	2251.5	1365.4	836.2	671.9	613.0	576.8	564.3	566.6
27.5°	8245.7	7067.3	4215.2	2150.7	1189.8	759.2	636.8	583.6	551.8	539.4	545.0
30°	8905.2	7686.0	4432.8	2013.6	1100.3	737.7	649.3	594.9	549.6	530.3	531.4
32.5°	9451.4	8227.6	4615.2	1915.0	1020.9	632.3	559.8	536.0	530.3	507.6	496.3
35°	10149.4	8818.0	4737.6	1917.2	983.6	564.3	498.6	456.6	426.1	400.0	400.0
37.5°	10967.5	9495.6	4867.9	1943.3	970.0	524.6	477.0	435.1	406.8	381.9	377.3
40°	11776.6	10159.6	4986.9	1968.2	962.0	500.8	460.0	421.5	395.5	370.5	363.7
42.5°	12464.4	10705.8	5093.4	1980.7	934.8	498.6	447.6	412.5	387.5	360.3	353.5
45°	12973.1	11163.5	5207.8	2000.0	907.6	507.6	447.6	411.3	380.7	354.7	347.9
47.5°	13427.5	11700.6	5399.3	2000.0	874.8	490.6	462.3	412.5	379.6	352.4	346.7
50°	14036.0	12437.2	5761.9	1953.5	828.3	472.5	487.2	407.9	369.4	347.9	341.1
52.5°	14874.5	13381.1	6337.6	1873.1	756.9	437.4	483.8	405.7	359.2	336.5	328.6
55°	15866.0	14391.8	6965.3	1779.0	650.4	412.5	466.8	400.0	347.9	322.9	315.0
57.5°	16639.9	15087.5	7407.2	1634.0	557.5	398.9	413.6	394.3	334.3	308.2	301.4
60°	16948.1	15060.4	7528.5	1440.2	512.2	387.5	361.5	441.9	322.9	296.9	288.9
62.5°	16781.6	14364.6	7188.5	1304.2	502.0	372.8	338.8	409.1	313.9	288.9	277.6
65°	16012.2	13131.8	6287.7	1268.0	531.4	358.1	324.1	320.7	301.4	277.6	266.3
67.5°	14336.3	11289.3	5034.5	1271.4	568.8	343.3	309.3	293.5	284.4	265.2	255.0
70°	11676.8	8925.6	3752.9	1280.4	588.1	326.3	293.5	276.5	266.3	247.0	240.2
72.5°	8585.7	6879.2	2726.3	1221.5	591.5	307.1	271.9	257.2	247.0	226.6	221.0
75°	5874.1	5262.2	1891.2	1011.9	515.6	279.9	248.2	234.6	227.8	202.8	199.4
77.5°	4291.1	3950.1	1210.2	751.3	397.7	245.9	218.7	208.5	204.0	176.8	172.2
80°	3443.6	3125.2	756.9	514.4	291.2	206.2	183.6	177.9	173.4	146.2	142.8
82.5°	2388.6	2092.9	486.1	334.3	218.7	159.8	145.0	142.8	136.0	111.0	107.6
85°	1260.0	1136.5	308.2	227.8	158.6	109.9	100.8	100.8	97.4	73.7	71.4
87.5°	160.9	261.8	156.4	119.0	87.3	48.7	48.7	47.6	51.0	41.9	36.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	5628.2	5682.6	5630.5	5633.9	5691.7	5863.9	5942.1	6006.7	6075.8	6121.1	6141.5
5°	4079.2	4206.2	4249.2	4339.9	4473.6	4693.4	4780.7	4844.1	4886.0	4911.0	4921.2
7.5°	2789.8	2866.8	2952.9	3099.1	3390.3	3519.5	3577.3	3562.5	3515.0	3498.0	3481.0
10°	2103.1	2072.5	2056.6	2137.1	2372.8	2503.1	2543.9	2504.2	2478.1	2483.8	2512.1
12.5°	1629.4	1576.2	1511.6	1502.5	1657.8	1774.5	1800.5	1802.8	1850.4	1892.3	1954.6
15°	1187.5	1181.8	1150.1	1130.9	1219.2	1314.4	1325.8	1346.2	1389.2	1419.8	1474.2
17.5°	837.4	868.0	892.9	905.4	972.2	1040.2	1027.7	1017.5	1009.6	1009.6	1035.7
20°	675.3	695.7	727.5	763.7	831.7	879.3	848.7	807.9	778.5	769.4	772.8
22.5°	608.5	624.4	642.5	674.2	735.4	768.3	735.4	705.9	676.5	666.3	662.9
25°	574.5	594.9	611.9	635.7	681.0	703.7	671.9	650.4	632.3	619.8	610.8
27.5°	555.2	573.4	577.9	589.2	627.8	648.1	632.3	623.2	611.9	600.6	589.2
30°	534.8	531.4	523.5	524.6	555.2	575.6	574.5	576.8	575.6	572.2	570.0
32.5°	488.4	481.6	474.8	481.6	509.9	528.0	529.2	533.7	533.7	532.6	541.6
35°	406.8	419.3	427.2	447.6	481.6	497.4	490.6	479.3	458.9	446.5	445.3
37.5°	376.2	378.5	392.1	420.4	457.8	472.5	462.3	436.3	422.7	420.4	423.8
40°	361.5	363.7	371.7	397.7	435.1	449.9	440.8	421.5	409.1	407.9	413.6
42.5°	351.3	353.5	358.1	376.2	406.8	424.9	426.1	412.5	397.7	398.9	404.5
45°	345.6	346.7	345.6	354.7	383.0	404.5	413.6	404.5	392.1	394.3	401.1
47.5°	344.5	341.1	336.5	338.8	368.3	389.8	401.1	397.7	392.1	394.3	400.0
50°	339.9	332.0	326.3	325.2	354.7	377.3	387.5	387.5	389.8	394.3	400.0
52.5°	326.3	317.3	317.3	313.9	345.6	367.1	373.9	375.1	378.5	386.4	394.3
55°	309.3	305.9	309.3	303.7	338.8	359.2	362.6	364.9	367.1	373.9	385.3
57.5°	294.6	290.1	298.0	295.7	333.1	351.3	351.3	355.8	355.8	364.9	373.9
60°	286.7	277.6	281.0	283.3	325.2	344.5	342.2	346.7	349.0	356.9	363.7
62.5°	276.5	268.6	268.6	274.2	316.1	334.3	333.1	336.5	345.6	347.9	354.7
65°	264.0	260.6	257.2	264.0	307.1	322.9	324.1	328.6	336.5	338.8	344.5
67.5°	251.6	252.7	245.9	252.7	299.1	311.6	311.6	320.7	324.1	328.6	334.3
70°	238.0	239.1	233.4	241.4	293.5	299.1	298.0	310.5	312.7	316.1	321.8
72.5°	221.0	221.0	218.7	230.0	284.4	286.7	284.4	294.6	295.7	299.1	301.4
75°	202.8	202.8	200.6	216.4	278.7	273.1	266.3	274.2	276.5	278.7	278.7
77.5°	179.0	181.3	181.3	200.6	259.5	267.4	244.8	249.3	252.7	253.8	250.4
80°	149.6	155.2	157.5	182.4	217.6	247.0	218.7	222.1	223.2	223.2	218.7
82.5°	114.4	124.6	130.3	157.5	166.6	207.4	190.4	193.8	190.4	183.6	181.3
85°	79.3	92.9	99.7	120.1	125.8	159.8	158.6	158.6	151.8	142.8	141.6
87.5°	43.1	51.0	55.5	71.4	86.1	107.6	116.7	113.3	107.6	102.0	103.1
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	6248.0	6402.2	6648.0	6836.1	7025.4	7207.8	7405.0	7555.7	7683.7	7733.6	7885.4
5°	5024.3	5216.9	5449.2	5868.5	6165.3	6492.8	6871.3	7372.1	7564.7	7831.0	8267.3
7.5°	3552.3	3726.8	4100.8	4439.6	4860.0	5323.4	5834.5	6525.7	6778.3	7205.5	7916.0
10°	2652.6	2855.5	3155.8	3441.3	3811.8	4285.5	4872.4	5645.2	5952.3	6415.7	7233.9
12.5°	2137.1	2376.2	2694.6	2963.1	3249.8	3584.1	4154.0	5001.6	5412.9	5818.6	6645.8
15°	1641.9	1892.3	2188.1	2529.1	2845.3	3205.6	3802.8	4729.7	5203.3	5626.0	6331.9
17.5°	1136.5	1350.7	1723.5	2079.3	2483.8	2945.0	3705.3	4787.5	5352.9	5840.1	6386.3
20°	805.7	928.0	1234.0	1646.4	2150.7	2729.7	3687.2	5091.1	5826.5	6382.9	6735.3
22.5°	677.6	722.9	900.8	1279.3	1861.7	2568.8	3750.6	5517.2	6465.6	7176.1	7291.7
25°	617.6	644.7	737.7	1003.9	1604.5	2452.1	3964.8	6151.7	7256.5	7969.3	7948.9
27.5°	584.7	613.0	674.2	847.6	1410.7	2379.6	4179.0	6904.1	8160.8	8830.4	8576.6
30°	574.5	613.0	677.6	798.9	1272.5	2265.1	4354.6	7564.7	8856.5	9411.7	8862.2
32.5°	566.6	572.2	601.7	688.9	1141.1	2131.4	4473.6	8157.4	9537.5	9964.7	9273.5
35°	457.8	486.1	533.7	617.6	1064.0	2051.0	4473.6	8668.4	10208.3	10523.3	9665.6
37.5°	440.8	465.7	507.6	579.0	1020.9	2011.3	4384.1	9161.3	10893.9	11156.7	9988.5
40°	431.7	452.1	491.8	549.6	1002.8	1966.0	4253.7	9596.4	11563.5	11791.3	10289.9
42.5°	424.9	443.1	480.4	531.4	979.0	1916.1	4148.4	9945.4	12144.8	12332.9	10577.7
45°	421.5	440.8	481.6	540.5	931.4	1850.4	4113.2	10322.8	12623.0	12785.0	10889.3
47.5°	421.5	444.2	487.2	559.8	874.8	1782.4	4223.2	10820.2	13075.1	13154.4	11256.5
50°	418.1	443.1	503.1	540.5	792.1	1696.3	4481.5	11446.8	13564.6	13573.7	11721.0
52.5°	411.3	440.8	541.6	529.2	696.9	1583.0	4830.5	12251.3	14288.7	14343.1	12448.5
55°	403.4	437.4	531.4	503.1	618.7	1448.1	5116.1	13229.2	15306.2	15456.9	13518.2
57.5°	393.2	432.9	514.4	466.8	567.7	1274.8	5219.2	13945.4	16016.7	16395.2	14723.8
60°	384.1	429.5	464.6	445.3	536.0	1128.6	5019.7	13803.7	15968.0	16783.8	15792.4
62.5°	375.1	432.9	423.8	431.7	521.2	1034.5	4498.5	12669.5	15160.1	16382.7	16584.4
65°	364.9	402.3	400.0	420.4	517.8	997.1	3729.1	10968.6	13598.6	15114.7	16771.4
67.5°	351.3	371.7	383.0	405.7	529.2	964.3	3009.6	9048.0	11428.7	13214.5	15796.9
70°	336.5	353.5	366.0	387.5	522.4	949.6	2503.1	7135.3	9068.4	10830.4	13874.0
72.5°	317.3	332.0	343.3	363.7	515.6	941.6	2114.4	5746.1	6770.4	8045.2	11280.3
75°	294.6	308.2	316.1	336.5	494.0	862.3	1662.3	4862.2	5066.2	5596.5	8984.5
77.5°	268.6	278.7	285.5	308.2	437.4	717.3	1202.2	3750.6	3934.2	4063.4	6888.3
80°	238.0	248.2	251.6	273.1	362.6	560.9	784.1	2770.5	2942.7	2972.2	4498.5
82.5°	202.8	213.0	213.0	233.4	296.9	403.4	514.4	1898.0	1932.0	2031.7	3179.5
85°	163.2	171.1	171.1	181.3	230.0	301.4	353.5	953.0	942.8	1076.5	2754.6
87.5°	116.7	122.4	128.0	130.3	164.3	199.4	213.0	290.1	191.5	219.8	1768.8
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°	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2	6964.2
2.5°	7999.9	8064.4	7998.7	7951.1	7746.0	7577.2	7351.7	7236.1
5°	8599.3	8763.6	8708.1	8508.6	8080.3	7598.7	7051.4	6804.4
7.5°	8526.8	8908.6	8917.7	8544.9	7913.7	7204.4	6463.3	6112.1
10°	7962.5	8450.8	8590.2	8228.7	7559.1	6765.9	5916.0	5514.9
12.5°	7332.4	7810.6	7917.1	7792.5	7232.7	6436.1	5573.8	5180.6
15°	6816.9	7031.0	7157.9	7266.7	6952.9	6304.7	5554.6	5122.9
17.5°	6503.0	6479.2	6515.5	6704.7	6758.0	6455.4	5849.2	5373.3
20°	6389.7	6026.0	6016.9	6277.5	6666.2	6814.6	6424.8	5853.7
22.5°	6452.0	5862.8	5788.0	6097.3	6714.9	7332.4	7179.5	6527.9
25°	6667.3	5876.4	5816.3	6115.5	6891.7	7884.3	7994.2	7400.4
27.5°	7006.1	5962.5	5883.2	6190.3	7126.2	8347.7	8796.4	8245.7
30°	7327.9	6112.1	6013.5	6337.6	7340.4	8531.3	9288.2	8905.2
32.5°	7718.8	6392.0	6218.6	6608.4	7605.5	8823.6	9726.7	9451.4
35°	8101.8	6790.8	6575.5	7026.5	7901.3	9187.4	10227.6	10149.4
37.5°	8522.2	7312.1	7134.2	7567.0	8305.8	9530.7	10866.7	10967.5
40°	8970.9	8003.3	7792.5	8355.7	8933.6	9961.3	11534.1	11776.6
42.5°	9423.1	8770.4	8518.8	9089.9	9623.6	10386.2	12105.2	12464.4
45°	9940.9	9603.2	9484.3	10101.8	10286.5	10790.7	12526.7	12973.1
47.5°	10543.7	10548.3	10739.8	10986.8	10955.0	11248.5	12950.5	13427.5
50°	11247.4	11727.8	12150.5	12314.8	11644.0	11740.3	13538.6	14036.0
52.5°	12092.7	13138.6	13662.1	13554.4	12386.2	12340.9	14470.0	14874.5
55°	13149.9	14632.0	15152.1	15075.1	13239.4	13159.0	15630.3	15866.0
57.5°	14373.7	16079.0	16557.2	16210.5	14263.8	14056.4	16590.1	16639.9
60°	15449.0	17225.8	17645.0	17260.9	15297.2	15011.6	17189.5	16948.1
62.5°	16047.3	17614.4	17909.0	17495.4	16005.4	16029.2	17320.9	16781.6
65°	15779.9	16632.0	16727.2	16693.2	15822.9	16619.5	16848.4	16012.2
67.5°	14315.9	14148.2	14308.0	14528.9	14259.2	15842.2	15539.7	14336.3
70°	11736.9	10815.7	11134.1	11282.5	11404.9	13632.6	13487.6	11676.8
72.5°	8845.2	7577.2	7828.8	7798.2	8364.7	10934.6	10489.3	8585.7
75°	6267.3	5137.6	5169.3	5156.8	5836.7	8555.1	7595.3	5874.1
77.5°	4385.2	3722.3	3739.3	3809.6	3924.0	6452.0	5426.5	4291.1
80°	3015.2	2824.9	2918.9	2924.6	2719.5	4334.2	4009.0	3443.6
82.5°	2245.9	1963.7	1941.0	1973.9	2131.4	3511.6	3081.0	2388.6
85°	1839.1	1162.6	934.8	1171.7	1888.9	3477.6	2046.4	1260.0
87.5°	1035.7	551.8	249.3	462.3	753.5	2302.5	591.5	160.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)