

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: P192113

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192113  
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-05-LED-E1-SLR-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 17226 lumens  
Efficiency: N/A  
Efficacy: 106.3 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 - G3

Input Watts (W): 162  
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

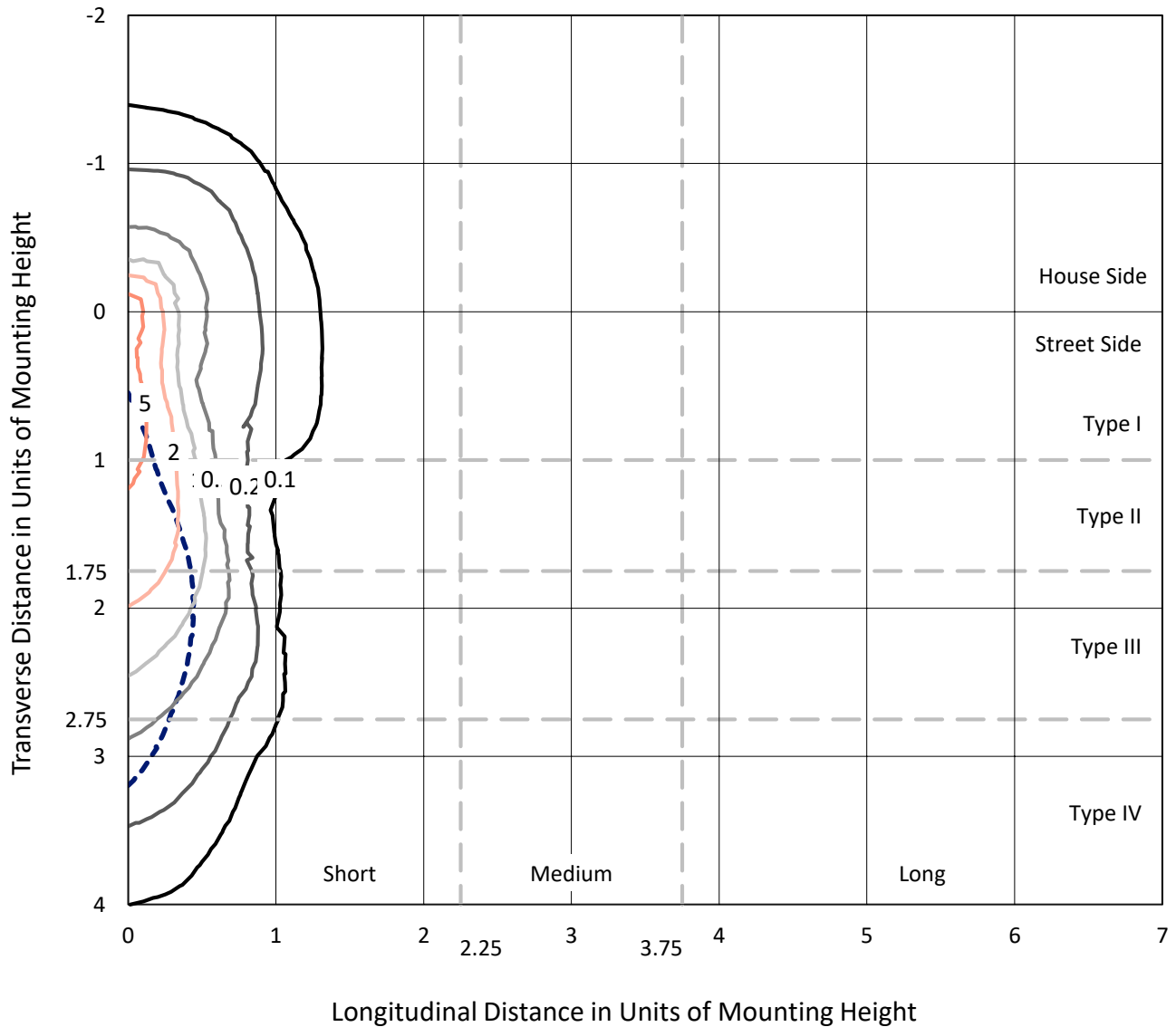


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### Iso-Footcandle Lines of Horizontal Illumination

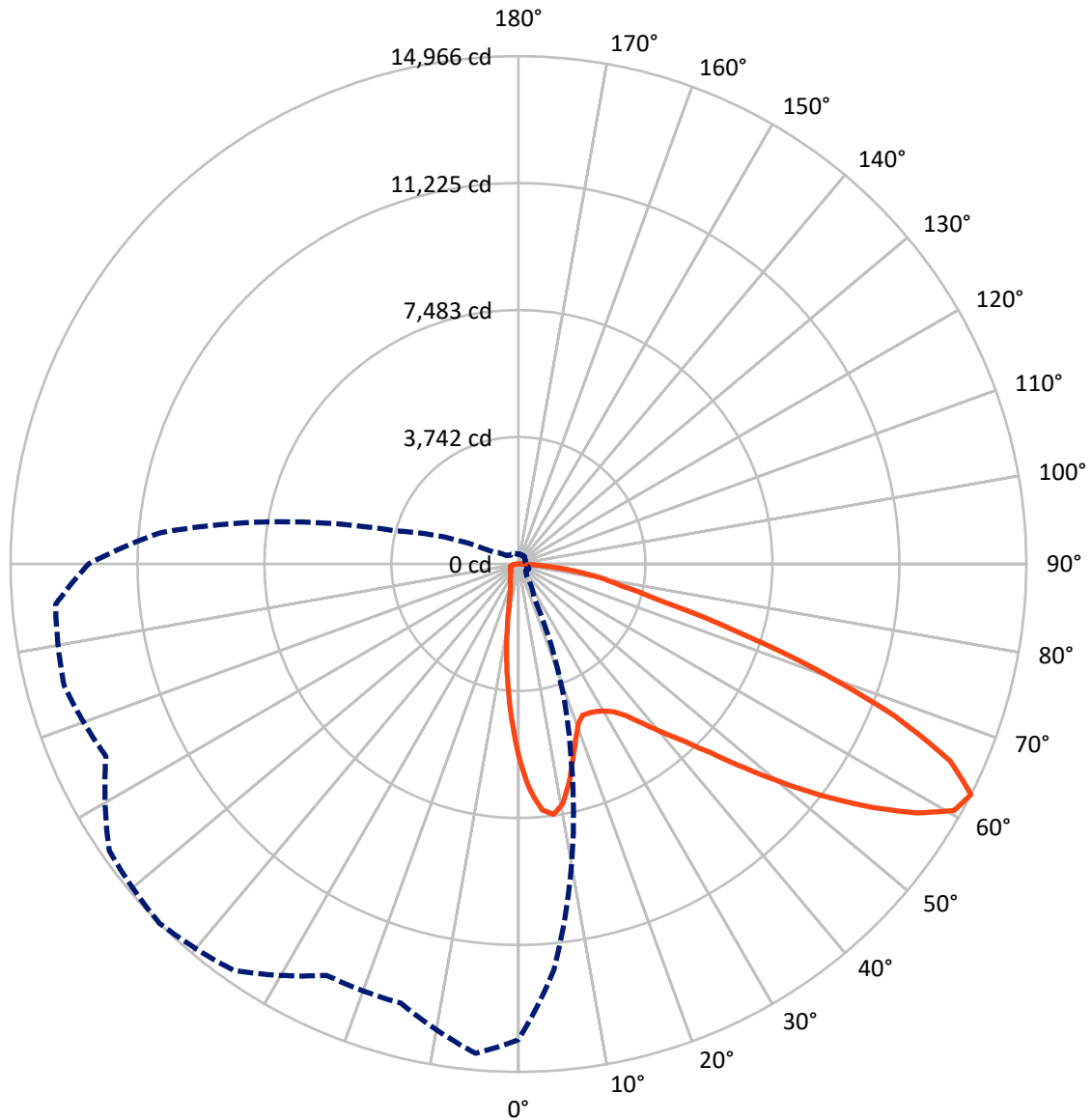
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	2850.7	0.0	2850.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14375.3	0.0	14375.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17226.0	0.0	17226.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.7	2.5
10°-20°	776.9	4.5
20°-30°	1132.7	6.6
30°-40°	1744.5	10.1
40°-50°	2567.5	14.9
50°-60°	3765.9	21.9
60°-70°	4209.7	24.4
70°-80°	2061.0	12.0
80°-90°	544.2	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°	17226.0	100.0
0°-180°	17226.0	100.0



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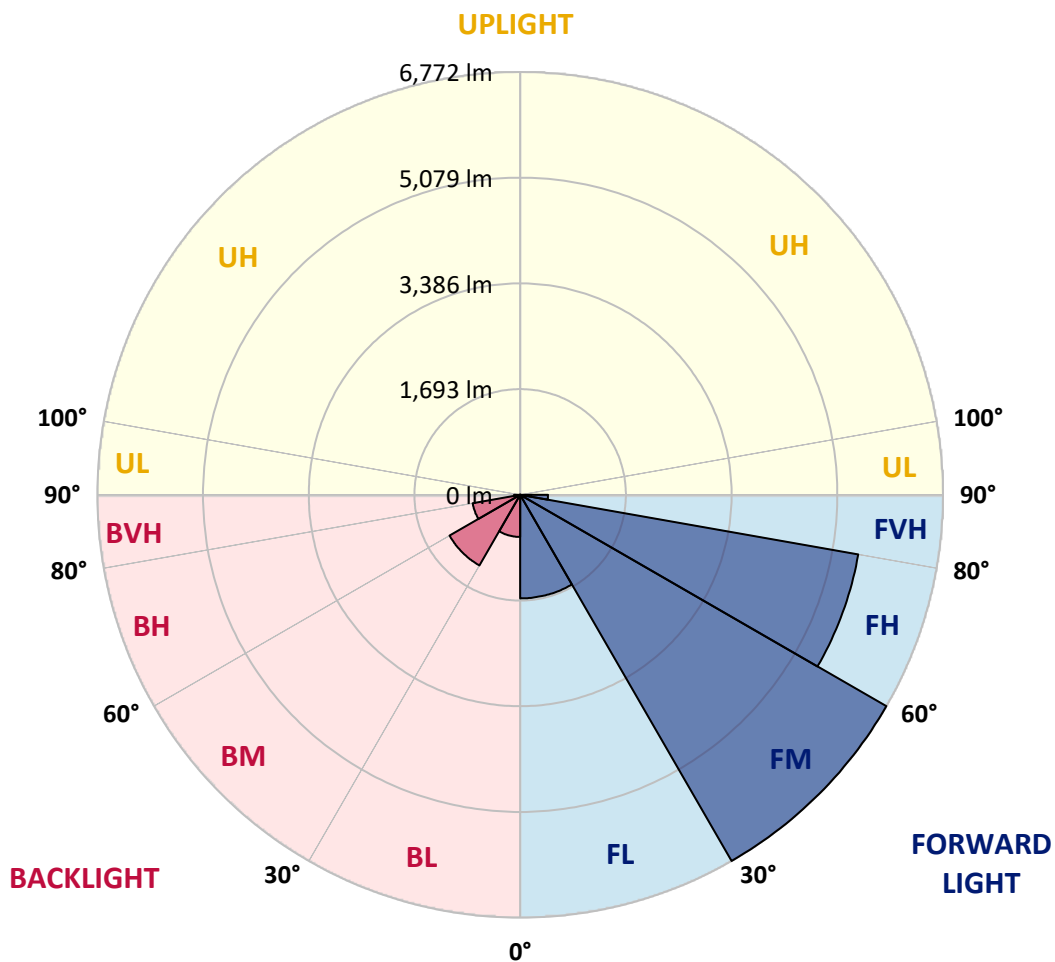
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.8	9.6			
FM	(30°-60°)	6771.7	39.3			
FH	(60°-80°)	5497.9	31.9			G3/7500
FVH	(80°-90°)	446.9	2.6			G3/500
BL	(0°-30°)	674.4	3.9	B2/1000		
BM	(30°-60°)	1306.2	7.6	B2/2500		
BH	(60°-80°)	772.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	97.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	6047.1	5924.0	5719.5	5506.4	5376.7	5225.2	5106.8	5002.7	4794.3	4753.6	4790.6
5°	5686.4	5439.2	5053.8	4665.6	4407.0	4129.6	3913.7	3740.4	3476.2	3429.8	3485.7
7.5°	5107.8	4812.3	4302.9	3807.6	3442.1	3095.5	2862.6	2677.0	2470.6	2381.5	2387.2
10°	4608.7	4275.4	3673.2	3134.4	2835.1	2601.2	2405.2	2214.9	2005.6	1868.3	1830.4
12.5°	4329.4	3945.9	3251.8	2770.7	2493.3	2247.1	2035.9	1832.3	1608.8	1468.7	1428.9
15°	4281.1	3864.4	3093.6	2537.8	2190.3	1878.7	1629.7	1402.4	1172.3	1058.7	1035.0
17.5°	4490.4	4010.3	3042.5	2330.4	1905.2	1520.8	1214.9	961.1	773.6	716.8	712.1
20°	4891.9	4290.6	3035.9	2135.3	1624.0	1173.3	846.6	661.9	579.5	563.4	564.4
22.5°	5455.3	4725.2	3117.3	1988.6	1365.5	875.0	636.3	554.0	521.8	506.6	506.6
25°	6184.4	5323.7	3304.8	1881.6	1141.1	698.8	561.5	512.3	482.0	471.6	473.5
27.5°	6890.9	5906.0	3522.6	1797.3	994.3	634.4	532.2	487.7	461.2	450.7	455.5
30°	7442.0	6423.1	3704.4	1682.7	919.5	616.5	542.6	497.1	459.3	443.2	444.1
32.5°	7898.4	6875.7	3856.9	1600.3	853.2	528.4	467.8	447.9	443.2	424.2	414.8
35°	8481.7	7369.1	3959.1	1602.2	821.9	471.6	416.7	381.6	356.0	334.3	334.3
37.5°	9165.4	7935.3	4068.0	1624.0	810.6	438.4	398.7	363.6	340.0	319.1	315.3
40°	9841.5	8490.2	4167.5	1644.8	803.9	418.5	384.5	352.3	330.5	309.6	304.0
42.5°	10416.3	8946.7	4256.5	1655.2	781.2	416.7	374.0	344.7	323.9	301.1	295.4
45°	10841.5	9329.2	4352.1	1671.3	758.5	424.2	374.0	343.7	318.2	296.4	290.7
47.5°	11221.2	9778.1	4512.2	1671.3	731.0	410.0	386.4	344.7	317.2	294.5	289.8
50°	11729.7	10393.6	4815.2	1632.5	692.2	394.9	407.2	340.9	308.7	290.7	285.0
52.5°	12430.4	11182.4	5296.2	1565.3	632.6	365.5	404.3	339.0	300.2	281.2	274.6
55°	13259.0	12027.0	5820.8	1486.7	543.5	344.7	390.1	334.3	290.7	269.9	263.2
57.5°	13905.8	12608.5	6190.1	1365.5	465.9	333.3	345.6	329.5	279.3	257.6	251.9
60°	14163.3	12585.7	6291.4	1203.6	428.0	323.9	302.1	369.3	269.9	248.1	241.5
62.5°	14024.1	12004.3	6007.4	1089.9	419.5	311.5	283.1	341.8	262.3	241.5	232.0
65°	13381.2	10974.0	5254.5	1059.6	444.1	299.2	270.8	268.0	251.9	232.0	222.5
67.5°	11980.6	9434.3	4207.2	1062.5	475.4	286.9	258.5	245.3	237.7	221.6	213.1
70°	9758.2	7459.0	3136.3	1070.0	491.5	272.7	245.3	231.1	222.5	206.4	200.8
72.5°	7174.9	5748.9	2278.3	1020.8	494.3	256.6	227.3	215.0	206.4	189.4	184.7
75°	4908.9	4397.6	1580.4	845.6	430.9	233.9	207.4	196.0	190.3	169.5	166.7
77.5°	3586.0	3301.0	1011.3	627.8	332.4	205.5	182.8	174.2	170.4	147.7	143.9
80°	2877.7	2611.7	632.6	429.9	243.4	172.3	153.4	148.7	144.9	122.2	119.3
82.5°	1996.1	1749.0	406.2	279.3	182.8	133.5	121.2	119.3	113.6	92.8	90.0
85°	1053.0	949.8	257.6	190.3	132.6	91.9	84.3	84.3	81.4	61.6	59.7
87.5°	134.5	218.7	130.7	99.4	72.9	40.7	40.7	39.8	42.6	35.0	30.3
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°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	4703.4	4748.9	4705.3	4708.2	4756.5	4900.4	4965.7	5019.7	5077.5	5115.4	5132.4
5°	3409.0	3515.0	3551.0	3626.8	3738.5	3922.2	3995.1	4048.2	4083.2	4104.0	4112.5
7.5°	2331.4	2395.7	2467.7	2589.9	2833.2	2941.2	2989.5	2977.2	2937.4	2923.2	2909.0
10°	1757.5	1731.9	1718.7	1785.9	1982.9	2091.8	2125.9	2092.7	2070.9	2075.7	2099.4
12.5°	1361.7	1317.2	1263.2	1255.6	1385.4	1482.9	1504.7	1506.6	1546.3	1581.4	1633.5
15°	992.4	987.7	961.1	945.0	1018.9	1098.4	1107.9	1125.0	1160.9	1186.5	1232.0
17.5°	699.8	725.4	746.2	756.6	812.5	869.3	858.9	850.3	843.7	843.7	865.5
20°	564.4	581.4	607.9	638.2	695.1	734.8	709.3	675.2	650.5	643.0	645.8
22.5°	508.5	521.8	536.9	563.4	614.6	642.0	614.6	589.9	565.3	556.8	554.0
25°	480.1	497.1	511.3	531.2	569.1	588.0	561.5	543.5	528.4	518.0	510.4
27.5°	464.0	479.1	482.9	492.4	524.6	541.6	528.4	520.8	511.3	501.9	492.4
30°	447.0	444.1	437.5	438.4	464.0	481.0	480.1	482.0	481.0	478.2	476.3
32.5°	408.1	402.4	396.8	402.4	426.1	441.3	442.2	446.0	446.0	445.1	452.6
35°	340.0	350.4	357.0	374.0	402.4	415.7	410.0	400.6	383.5	373.1	372.1
37.5°	314.4	316.3	327.6	351.3	382.6	394.9	386.4	364.6	353.2	351.3	354.2
40°	302.1	304.0	310.6	332.4	363.6	375.9	368.4	352.3	341.8	340.9	345.6
42.5°	293.6	295.4	299.2	314.4	340.0	355.1	356.0	344.7	332.4	333.3	338.1
45°	288.8	289.8	288.8	296.4	320.1	338.1	345.6	338.1	327.6	329.5	335.2
47.5°	287.9	285.0	281.2	283.1	307.8	325.7	335.2	332.4	327.6	329.5	334.3
50°	284.1	277.5	272.7	271.8	296.4	315.3	323.9	323.9	325.7	329.5	334.3
52.5°	272.7	265.1	265.1	262.3	288.8	306.8	312.5	313.4	316.3	322.9	329.5
55°	258.5	255.7	258.5	253.8	283.1	300.2	303.0	304.9	306.8	312.5	322.0
57.5°	246.2	242.4	249.0	247.2	278.4	293.6	293.6	297.3	297.3	304.9	312.5
60°	239.6	232.0	234.8	236.7	271.8	287.9	286.0	289.8	291.7	298.3	304.0
62.5°	231.1	224.4	224.4	229.2	264.2	279.3	278.4	281.2	288.8	290.7	296.4
65°	220.6	217.8	215.0	220.6	256.6	269.9	270.8	274.6	281.2	283.1	287.9
67.5°	210.2	211.2	205.5	211.2	250.0	260.4	260.4	268.0	270.8	274.6	279.3
70°	198.9	199.8	195.1	201.7	245.3	250.0	249.0	259.5	261.4	264.2	268.9
72.5°	184.7	184.7	182.8	192.2	237.7	239.6	237.7	246.2	247.2	250.0	251.9
75°	169.5	169.5	167.6	180.9	232.9	228.2	222.5	229.2	231.1	232.9	232.9
77.5°	149.6	151.5	151.5	167.6	216.8	223.5	204.5	208.3	211.2	212.1	209.3
80°	125.0	129.7	131.6	152.5	181.8	206.4	182.8	185.6	186.5	186.5	182.8
82.5°	95.6	104.2	108.9	131.6	139.2	173.3	159.1	161.9	159.1	153.4	151.5
85°	66.3	77.6	83.3	100.4	105.1	133.5	132.6	132.6	126.9	119.3	118.4
87.5°	36.0	42.6	46.4	59.7	72.0	90.0	97.5	94.7	90.0	85.2	86.2
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	5221.4	5350.2	5555.7	5712.9	5871.0	6023.5	6188.2	6314.2	6421.2	6462.8	6589.7
5°	4198.7	4359.7	4553.8	4904.2	5152.3	5425.9	5742.2	6160.8	6321.7	6544.3	6908.8
7.5°	2968.6	3114.5	3427.0	3710.1	4061.4	4448.7	4875.8	5453.4	5664.6	6021.6	6615.3
10°	2216.8	2386.3	2637.2	2875.8	3185.5	3581.3	4071.8	4717.6	4974.3	5361.6	6045.2
12.5°	1785.9	1985.7	2251.8	2476.2	2715.8	2995.2	3471.5	4179.8	4523.5	4862.5	5553.8
15°	1372.1	1581.4	1828.5	2113.6	2377.8	2678.9	3177.9	3952.5	4348.3	4701.5	5291.5
17.5°	949.8	1128.7	1440.3	1737.6	2075.7	2461.1	3096.5	4000.8	4473.3	4880.5	5336.9
20°	673.3	775.5	1031.2	1375.9	1797.3	2281.2	3081.3	4254.6	4869.1	5334.1	5628.6
22.5°	566.3	604.1	752.8	1069.1	1555.8	2146.7	3134.4	4610.6	5403.2	5996.9	6093.5
25°	516.1	538.8	616.5	839.0	1340.9	2049.2	3313.3	5140.9	6064.2	6659.8	6642.8
27.5°	488.6	512.3	563.4	708.3	1178.9	1988.6	3492.3	5769.7	6819.8	7379.5	7167.4
30°	480.1	512.3	566.3	667.6	1063.4	1892.9	3639.1	6321.7	7401.3	7865.3	7406.0
32.5°	473.5	478.2	502.8	575.7	953.6	1781.2	3738.5	6817.0	7970.4	8327.4	7749.7
35°	382.6	406.2	446.0	516.1	889.2	1714.0	3738.5	7244.1	8530.9	8794.2	8077.4
37.5°	368.4	389.2	424.2	483.9	853.2	1680.8	3663.7	7656.0	9103.8	9323.5	8347.2
40°	360.8	377.8	411.0	459.3	838.0	1642.9	3554.8	8019.6	9663.5	9853.8	8599.1
42.5°	355.1	370.3	401.5	444.1	818.2	1601.3	3466.7	8311.3	10149.3	10306.5	8839.7
45°	352.3	368.4	402.4	451.7	778.4	1546.3	3437.4	8626.6	10548.9	10684.3	9100.1
47.5°	352.3	371.2	407.2	467.8	731.0	1489.5	3529.2	9042.3	10926.7	10993.0	9406.9
50°	349.4	370.3	420.4	451.7	661.9	1417.6	3745.1	9566.0	11335.8	11343.4	9795.1
52.5°	343.7	368.4	452.6	442.2	582.4	1322.9	4036.8	10238.3	11940.9	11986.3	10403.0
55°	337.1	365.5	444.1	420.4	517.0	1210.2	4275.4	11055.5	12791.2	12917.2	11297.0
57.5°	328.6	361.7	429.9	390.1	474.4	1065.3	4361.6	11653.9	13384.9	13701.2	12304.5
60°	321.0	358.9	388.2	372.1	447.9	943.1	4194.9	11535.6	13344.2	14026.0	13197.5
62.5°	313.4	361.7	354.2	360.8	435.6	864.6	3759.3	10587.7	12669.1	13690.8	13859.4
65°	304.9	336.2	334.3	351.3	432.7	833.3	3116.4	9166.3	11364.2	12631.2	14015.6
67.5°	293.6	310.6	320.1	339.0	442.2	805.8	2515.1	7561.3	9550.8	11043.2	13201.2
70°	281.2	295.4	305.9	323.9	436.5	793.5	2091.8	5962.9	7578.3	9050.8	11594.3
72.5°	265.1	277.5	286.9	304.0	430.9	786.9	1767.0	4801.9	5657.9	6723.2	9426.8
75°	246.2	257.6	264.2	281.2	412.9	720.6	1389.2	4063.3	4233.8	4676.9	7508.3
77.5°	224.4	232.9	238.6	257.6	365.5	599.4	1004.7	3134.4	3287.8	3395.7	5756.4
80°	198.9	207.4	210.2	228.2	303.0	468.7	655.3	2315.3	2459.2	2483.8	3759.3
82.5°	169.5	178.0	178.0	195.1	248.1	337.1	429.9	1586.1	1614.5	1697.9	2657.1
85°	136.4	143.0	143.0	151.5	192.2	251.9	295.4	796.4	787.9	899.6	2302.0
87.5°	97.5	102.3	107.0	108.9	137.3	166.7	178.0	242.4	160.0	183.7	1478.2
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9	5819.9
2.5°	6685.4	6739.3	6684.4	6644.7	6473.3	6332.2	6143.7	6047.1
5°	7186.3	7323.6	7277.2	7110.5	6752.6	6350.2	5892.8	5686.4
7.5°	7125.7	7444.8	7452.4	7140.8	6613.4	6020.6	5401.3	5107.8
10°	6654.1	7062.3	7178.7	6876.7	6317.0	5654.2	4944.0	4608.7
12.5°	6127.6	6527.2	6616.2	6512.1	6044.3	5378.6	4658.0	4329.4
15°	5696.8	5875.7	5981.8	6072.7	5810.4	5268.8	4641.9	4281.1
17.5°	5434.5	5414.6	5444.9	5603.0	5647.5	5394.7	4888.1	4490.4
20°	5339.8	5035.8	5028.2	5246.0	5570.8	5694.9	5369.1	4891.9
22.5°	5391.9	4899.4	4837.0	5095.5	5611.5	6127.6	5999.8	5455.3
25°	5571.8	4910.8	4860.6	5110.6	5759.3	6588.8	6680.6	6184.4
27.5°	5854.9	4982.8	4916.5	5173.1	5955.3	6976.1	7351.1	6890.9
30°	6123.8	5107.8	5025.4	5296.2	6134.3	7129.5	7762.0	7442.0
32.5°	6450.5	5341.7	5196.8	5522.5	6355.8	7373.8	8128.5	7898.4
35°	6770.6	5675.0	5495.1	5872.0	6603.0	7677.8	8547.0	8481.7
37.5°	7121.9	6110.6	5961.9	6323.6	6941.0	7964.7	9081.1	9165.4
40°	7496.9	6688.2	6512.1	6982.7	7465.6	8324.5	9638.9	9841.5
42.5°	7874.7	7329.3	7119.1	7596.3	8042.3	8679.6	10116.1	10416.3
45°	8307.5	8025.3	7925.9	8441.9	8596.3	9017.7	10468.4	10841.5
47.5°	8811.2	8815.0	8975.1	9181.5	9155.0	9400.2	10822.5	11221.2
50°	9399.3	9800.8	10154.0	10291.3	9730.7	9811.2	11314.0	11729.7
52.5°	10105.7	10979.7	11417.2	11327.3	10351.0	10313.1	12092.4	12430.4
55°	10989.2	12227.8	12662.4	12598.0	11064.0	10996.8	13062.0	13259.0
57.5°	12011.9	13437.0	13836.6	13546.9	11920.0	11746.7	13864.1	13905.8
60°	12910.5	14395.3	14745.7	14424.7	12783.6	12545.0	14365.0	14163.3
62.5°	13410.5	14720.1	14966.3	14620.7	13375.5	13395.4	14474.9	14024.1
65°	13187.0	13899.1	13978.7	13950.3	13223.0	13888.7	14080.0	13381.2
67.5°	11963.6	11823.4	11957.0	12141.6	11916.2	13239.1	12986.3	11980.6
70°	9808.4	9038.5	9304.6	9428.6	9530.9	11392.6	11271.4	9758.2
72.5°	7391.8	6332.2	6542.4	6516.8	6990.3	9137.9	8765.8	7174.9
75°	5237.5	4293.4	4319.9	4309.5	4877.7	7149.4	6347.3	4908.9
77.5°	3664.6	3110.7	3124.9	3183.6	3279.2	5391.9	4534.9	3586.0
80°	2519.8	2360.7	2439.3	2444.0	2272.6	3622.0	3350.3	2877.7
82.5°	1876.8	1641.0	1622.1	1649.6	1781.2	2934.6	2574.7	1996.1
85°	1536.9	971.6	781.2	979.1	1578.5	2906.1	1710.2	1053.0
87.5°	865.5	461.2	208.3	386.4	629.7	1924.2	494.3	134.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)