

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: P193872

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193872  
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-04-LED-E1-SLR-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 17219 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

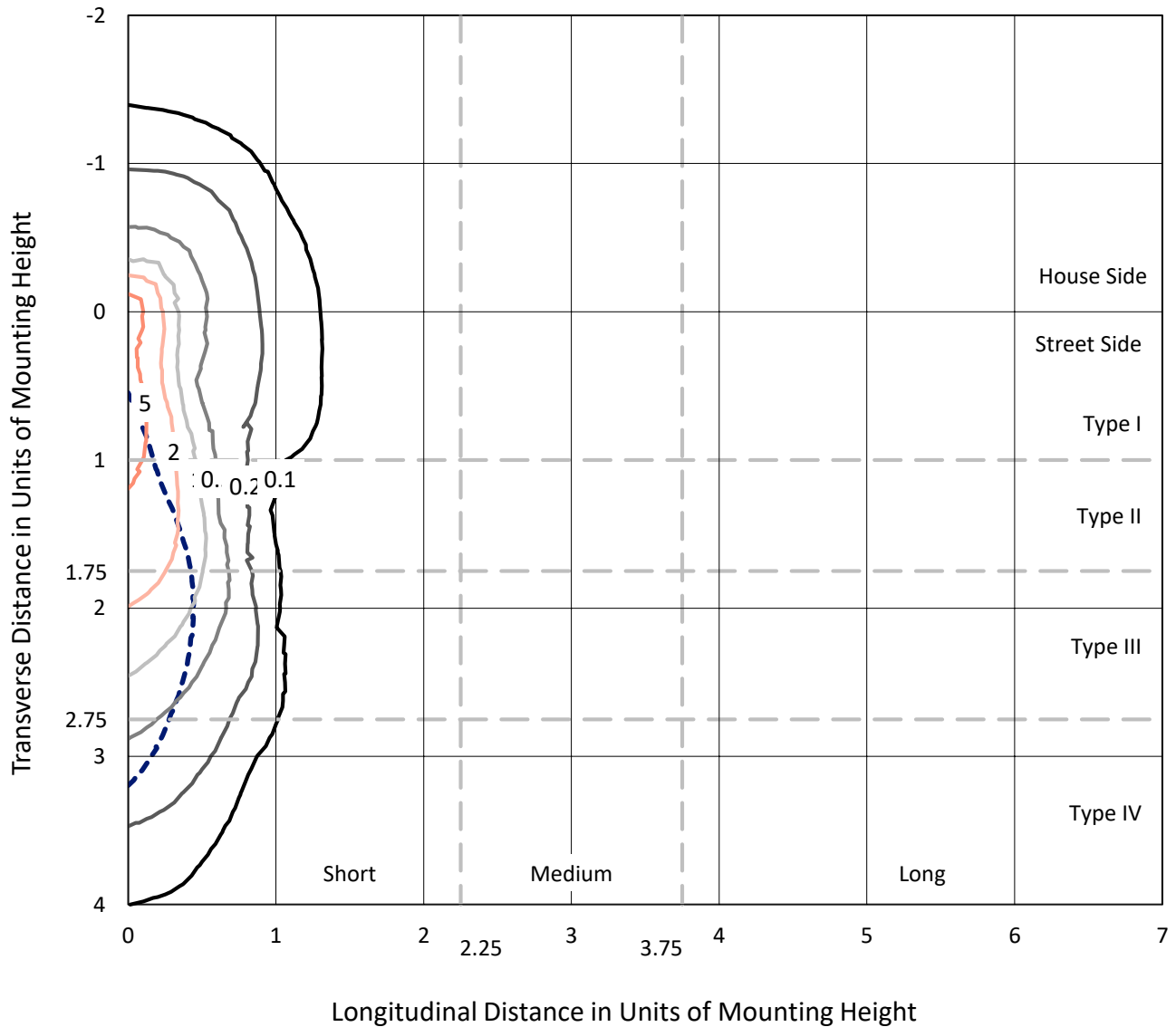
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

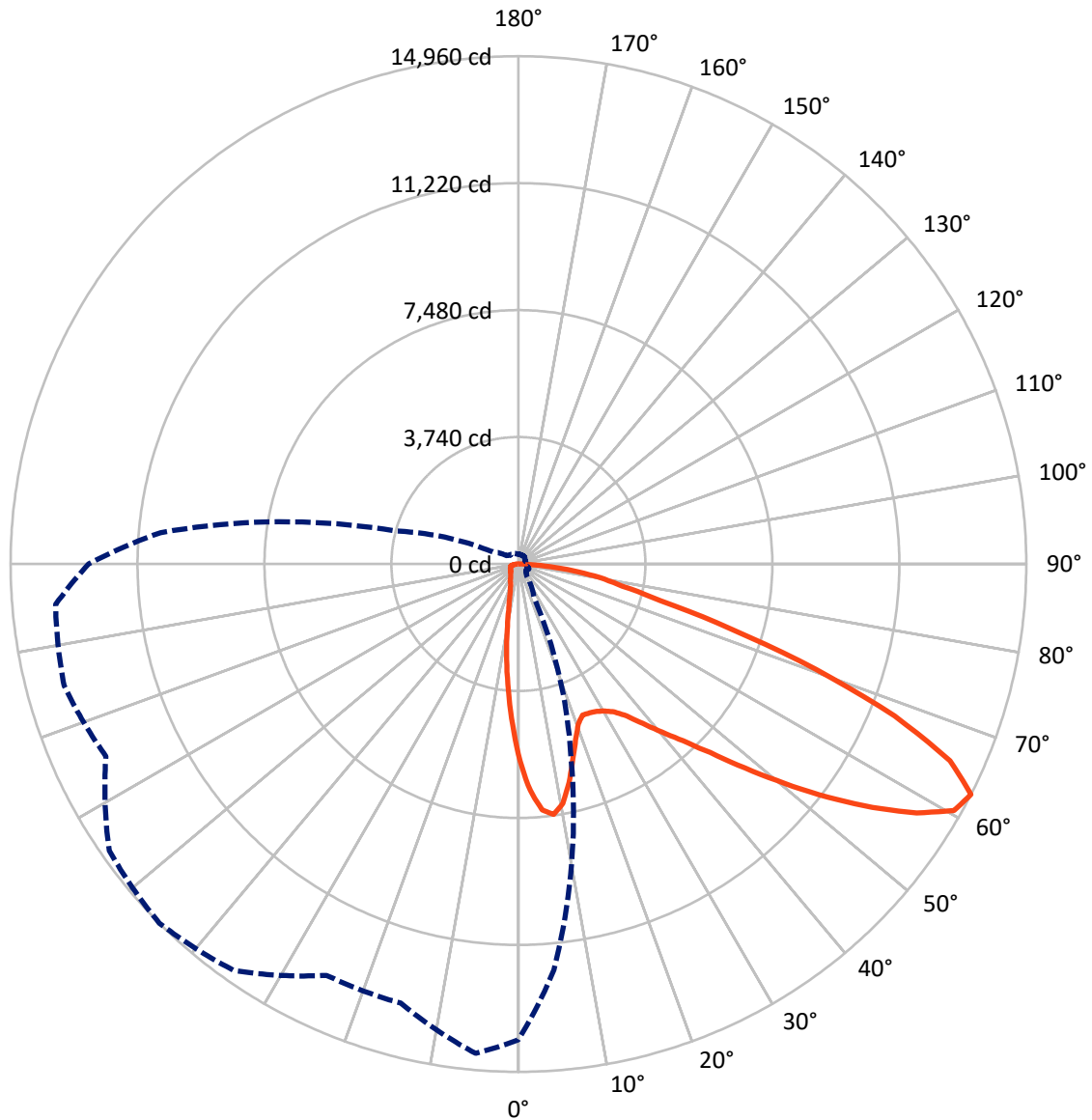
× Max cd  
 - - - 1/2 Max cd



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	2849.5	0.0	2849.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14369.5	0.0	14369.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17219.0	0.0	17219.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.5	2.5
10°-20°	776.6	4.5
20°-30°	1132.2	6.6
30°-40°	1743.8	10.1
40°-50°	2566.4	14.9
50°-60°	3764.4	21.9
60°-70°	4208.0	24.4
70°-80°	2060.2	12.0
80°-90°	543.9	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°	17219.0	100.0
0°-180°	17219.0	100.0



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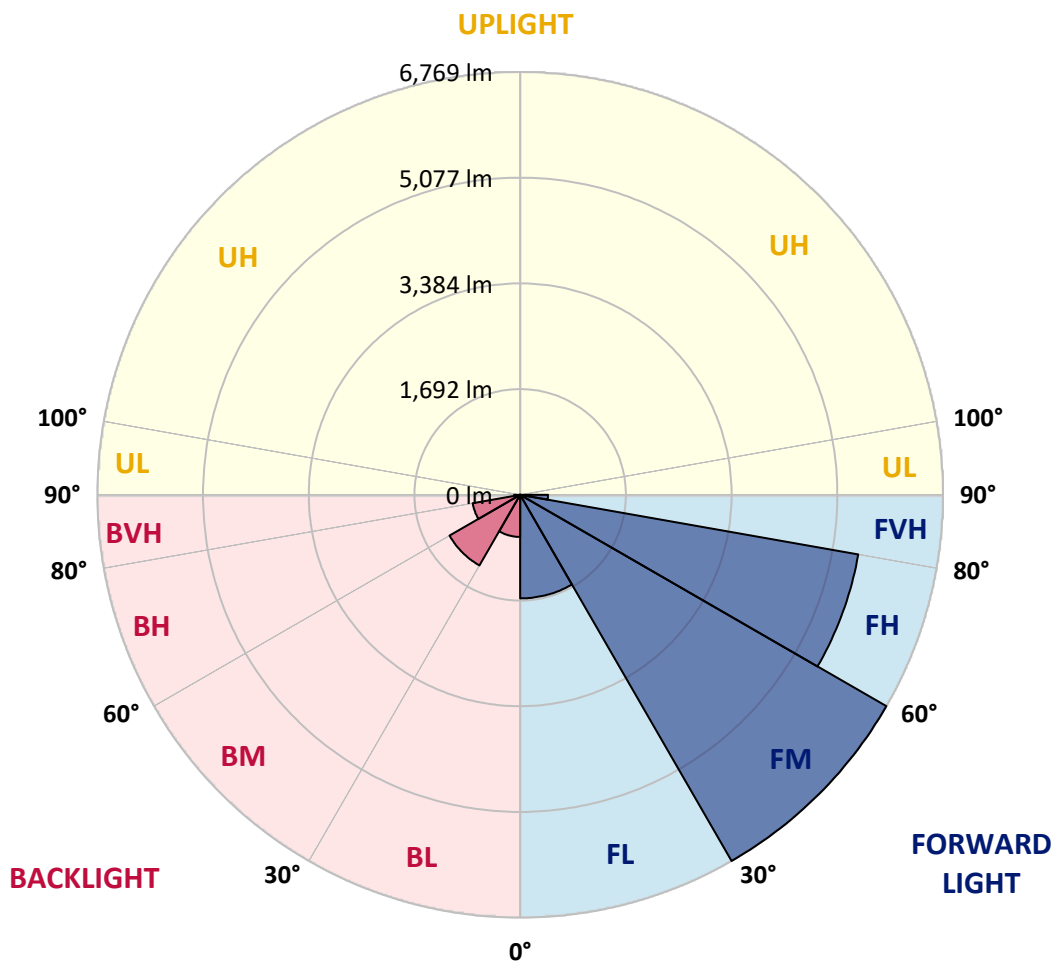
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.1	9.6			
FM	(30°-60°)	6768.9	39.3			
FH	(60°-80°)	5495.7	31.9			G3/7500
FVH	(80°-90°)	446.7	2.6			G3/500
BL	(0°-30°)	674.1	3.9	B2/1000		
BM	(30°-60°)	1305.6	7.6	B2/2500		
BH	(60°-80°)	772.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	97.2	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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	6044.7	5921.6	5717.2	5504.2	5374.5	5223.1	5104.8	5000.6	4792.4	4751.7	4788.6
5°	5684.0	5437.0	5051.7	4663.7	4405.3	4127.9	3912.1	3738.9	3474.8	3428.4	3484.3
7.5°	5105.7	4810.4	4301.1	3806.1	3440.7	3094.3	2861.4	2675.9	2469.6	2380.6	2386.3
10°	4606.9	4273.7	3671.7	3133.1	2834.0	2600.2	2404.2	2214.0	2004.8	1867.5	1829.7
12.5°	4327.6	3944.3	3250.5	2769.6	2492.3	2246.2	2035.1	1831.6	1608.2	1468.1	1428.3
15°	4279.4	3862.9	3092.4	2536.8	2189.4	1878.0	1629.0	1401.8	1171.8	1058.2	1034.6
17.5°	4488.5	4008.6	3041.3	2329.5	1904.5	1520.2	1214.4	960.7	773.3	716.5	711.8
20°	4889.9	4288.8	3034.6	2134.5	1623.3	1172.8	846.2	661.6	579.3	563.2	564.1
22.5°	5453.1	4723.3	3116.0	1987.8	1364.9	874.6	636.1	553.7	521.5	506.4	506.4
25°	6181.9	5321.5	3303.5	1880.8	1140.6	698.6	561.3	512.1	481.8	471.4	473.3
27.5°	6888.1	5903.6	3521.2	1796.6	993.9	634.2	532.0	487.5	461.0	450.6	455.3
30°	7438.9	6420.5	3702.9	1682.0	919.1	616.2	542.4	496.9	459.1	443.0	443.9
32.5°	7895.2	6872.9	3855.3	1599.7	852.8	528.2	467.6	447.7	443.0	424.1	414.6
35°	8478.3	7366.1	3957.5	1601.6	821.6	471.4	416.5	381.5	355.9	334.1	334.1
37.5°	9161.7	7932.1	4066.4	1623.3	810.2	438.3	398.5	363.5	339.8	319.0	315.2
40°	9837.5	8486.8	4165.8	1644.2	803.6	418.4	384.3	352.1	330.3	309.5	303.8
42.5°	10412.1	8943.0	4254.7	1654.6	780.9	416.5	373.9	344.5	323.7	301.0	295.3
45°	10837.1	9325.4	4350.4	1670.7	758.2	424.1	373.9	343.6	318.0	296.3	290.6
47.5°	11216.6	9774.1	4510.3	1670.7	730.7	409.9	386.2	344.5	317.1	294.4	289.6
50°	11724.9	10389.3	4813.2	1631.9	691.9	394.7	407.0	340.8	308.6	290.6	284.9
52.5°	12425.4	11177.8	5294.1	1564.6	632.3	365.4	404.2	338.9	300.1	281.1	274.5
55°	13253.6	12022.2	5818.5	1486.1	543.3	344.5	390.0	334.1	290.6	269.8	263.1
57.5°	13900.1	12603.3	6187.6	1364.9	465.7	333.2	345.5	329.4	279.2	257.5	251.8
60°	14157.6	12580.6	6288.9	1203.1	427.8	323.7	301.9	369.2	269.8	248.0	241.4
62.5°	14018.4	11999.4	6004.9	1089.5	419.3	311.4	283.0	341.7	262.2	241.4	231.9
65°	13375.7	10969.6	5252.4	1059.2	443.9	299.1	270.7	267.9	251.8	231.9	222.4
67.5°	11975.8	9430.5	4205.5	1062.0	475.2	286.8	258.4	245.2	237.6	221.5	213.0
70°	9754.2	7456.0	3135.0	1069.6	491.3	272.6	245.2	231.0	222.4	206.3	200.7
72.5°	7172.0	5746.5	2277.4	1020.4	494.1	256.5	227.2	214.9	206.3	189.3	184.6
75°	4906.9	4395.8	1579.8	845.3	430.7	233.8	207.3	195.9	190.3	169.4	166.6
77.5°	3584.6	3299.7	1010.9	627.6	332.2	205.4	182.7	174.2	170.4	147.7	143.9
80°	2876.6	2610.6	632.3	429.7	243.3	172.3	153.3	148.6	144.8	122.1	119.3
82.5°	1995.3	1748.3	406.1	279.2	182.7	133.5	121.2	119.3	113.6	92.8	89.9
85°	1052.6	949.4	257.5	190.3	132.5	91.8	84.2	84.2	81.4	61.5	59.6
87.5°	134.4	218.7	130.6	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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	4701.5	4747.0	4703.4	4706.3	4754.5	4898.4	4963.7	5017.7	5075.4	5113.3	5130.3
5°	3407.6	3513.6	3549.6	3625.3	3737.0	3920.6	3993.5	4046.5	4081.5	4102.4	4110.9
7.5°	2330.4	2394.8	2466.7	2588.8	2832.1	2940.0	2988.3	2976.0	2936.2	2922.0	2907.8
10°	1756.8	1731.2	1718.0	1785.2	1982.1	2090.9	2125.0	2091.9	2070.1	2074.8	2098.5
12.5°	1361.1	1316.7	1262.7	1255.1	1384.8	1482.3	1504.1	1506.0	1545.7	1580.7	1632.8
15°	992.0	987.3	960.7	944.7	1018.5	1098.0	1107.5	1124.5	1160.5	1186.0	1231.5
17.5°	699.5	725.1	745.9	756.3	812.1	868.9	858.5	850.0	843.4	843.4	865.1
20°	564.1	581.2	607.7	638.0	694.8	734.5	709.0	674.9	650.3	642.7	645.5
22.5°	508.3	521.5	536.7	563.2	614.3	641.8	614.3	589.7	565.1	556.6	553.7
25°	479.9	496.9	511.1	531.0	568.9	587.8	561.3	543.3	528.2	517.8	510.2
27.5°	463.8	479.0	482.7	492.2	524.4	541.4	528.2	520.6	511.1	501.7	492.2
30°	446.8	443.9	437.3	438.3	463.8	480.8	479.9	481.8	480.8	478.0	476.1
32.5°	408.0	402.3	396.6	402.3	425.9	441.1	442.0	445.8	445.8	444.9	452.5
35°	339.8	350.2	356.8	373.9	402.3	415.5	409.9	400.4	383.4	372.9	372.0
37.5°	314.3	316.1	327.5	351.2	382.4	394.7	386.2	364.4	353.1	351.2	354.0
40°	301.9	303.8	310.5	332.2	363.5	375.8	368.2	352.1	341.7	340.8	345.5
42.5°	293.4	295.3	299.1	314.3	339.8	355.0	355.9	344.5	332.2	333.2	337.9
45°	288.7	289.6	288.7	296.3	319.9	337.9	345.5	337.9	327.5	329.4	335.1
47.5°	287.8	284.9	281.1	283.0	307.6	325.6	335.1	332.2	327.5	329.4	334.1
50°	284.0	277.3	272.6	271.7	296.3	315.2	323.7	323.7	325.6	329.4	334.1
52.5°	272.6	265.0	265.0	262.2	288.7	306.7	312.4	313.3	316.1	322.8	329.4
55°	258.4	255.6	258.4	253.7	283.0	300.1	302.9	304.8	306.7	312.4	321.8
57.5°	246.1	242.3	248.9	247.0	278.3	293.4	293.4	297.2	297.2	304.8	312.4
60°	239.5	231.9	234.7	236.6	271.7	287.8	285.9	289.6	291.5	298.2	303.8
62.5°	231.0	224.3	224.3	229.1	264.1	279.2	278.3	281.1	288.7	290.6	296.3
65°	220.5	217.7	214.9	220.5	256.5	269.8	270.7	274.5	281.1	283.0	287.8
67.5°	210.1	211.1	205.4	211.1	249.9	260.3	260.3	267.9	270.7	274.5	279.2
70°	198.8	199.7	195.0	201.6	245.2	249.9	248.9	259.4	261.2	264.1	268.8
72.5°	184.6	184.6	182.7	192.1	237.6	239.5	237.6	246.1	247.0	249.9	251.8
75°	169.4	169.4	167.5	180.8	232.9	228.1	222.4	229.1	231.0	232.9	232.9
77.5°	149.6	151.4	151.4	167.5	216.8	223.4	204.5	208.2	211.1	212.0	209.2
80°	124.9	129.7	131.6	152.4	181.7	206.3	182.7	185.5	186.5	186.5	182.7
82.5°	95.6	104.1	108.9	131.6	139.1	173.2	159.0	161.9	159.0	153.3	151.4
85°	66.3	77.6	83.3	100.3	105.1	133.5	132.5	132.5	126.8	119.3	118.3
87.5°	36.0	42.6	46.4	59.6	71.9	89.9	97.5	94.7	89.9	85.2	86.1
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5219.3	5348.0	5553.4	5710.5	5868.6	6021.0	6185.7	6311.6	6418.6	6460.2	6587.1
5°	4197.0	4357.9	4552.0	4902.2	5150.2	5423.7	5739.9	6158.3	6319.2	6541.6	6906.0
7.5°	2967.4	3113.2	3425.6	3708.6	4059.8	4446.9	4873.8	5451.2	5662.3	6019.1	6612.6
10°	2215.9	2385.3	2636.1	2874.7	3184.2	3579.9	4070.2	4715.7	4972.2	5359.4	6042.8
12.5°	1785.2	1984.9	2250.9	2475.2	2714.7	2993.9	3470.1	4178.1	4521.7	4860.5	5551.5
15°	1371.6	1580.7	1827.8	2112.7	2376.8	2677.8	3176.6	3950.9	4346.6	4699.6	5289.3
17.5°	949.4	1128.3	1439.7	1736.9	2074.8	2460.1	3095.2	3999.2	4471.5	4878.5	5334.8
20°	673.0	775.2	1030.8	1375.3	1796.6	2280.2	3080.1	4252.9	4867.2	5331.9	5626.3
22.5°	566.0	603.9	752.5	1068.7	1555.2	2145.8	3133.1	4608.8	5401.0	5994.5	6091.1
25°	515.9	538.6	616.2	838.6	1340.3	2048.3	3312.0	5138.8	6061.7	6657.1	6640.1
27.5°	488.4	512.1	563.2	708.0	1178.5	1987.8	3490.9	5767.3	6817.1	7376.5	7164.4
30°	479.9	512.1	566.0	667.3	1063.0	1892.2	3637.6	6319.2	7398.2	7862.1	7403.0
32.5°	473.3	478.0	502.6	575.5	953.2	1780.5	3737.0	6814.2	7967.1	8324.0	7746.6
35°	382.4	406.1	445.8	515.9	888.8	1713.3	3737.0	7241.1	8527.5	8790.6	8074.1
37.5°	368.2	389.0	424.1	483.7	852.8	1680.1	3662.2	7652.9	9100.1	9319.7	8343.9
40°	360.6	377.7	410.8	459.1	837.7	1642.3	3553.4	8016.3	9659.6	9849.8	8595.6
42.5°	355.0	370.1	401.3	443.9	817.8	1600.6	3465.3	8307.9	10145.1	10302.3	8836.1
45°	352.1	368.2	402.3	451.5	778.1	1545.7	3436.0	8623.1	10544.6	10679.9	9096.4
47.5°	352.1	371.0	407.0	467.6	730.7	1488.9	3527.8	9038.6	10922.3	10988.5	9403.0
50°	349.3	370.1	420.3	451.5	661.6	1417.0	3743.6	9562.1	11331.2	11338.7	9791.1
52.5°	343.6	368.2	452.5	442.0	582.1	1322.3	4035.1	10234.1	11936.0	11981.4	10398.8
55°	337.0	365.4	443.9	420.3	516.8	1209.7	4273.7	11051.0	12786.0	12911.9	11292.4
57.5°	328.5	361.6	429.7	390.0	474.2	1064.9	4359.8	11649.2	13379.5	13695.7	12299.5
60°	320.9	358.7	388.1	372.0	447.7	942.8	4193.2	11530.9	13338.8	14020.3	13192.1
62.5°	313.3	361.6	354.0	360.6	435.4	864.2	3757.8	10583.4	12663.9	13685.2	13853.7
65°	304.8	336.0	334.1	351.2	432.6	833.0	3115.1	9162.6	11359.6	12626.1	14009.9
67.5°	293.4	310.5	319.9	338.9	442.0	805.5	2514.0	7558.2	9546.9	11038.7	13195.9
70°	281.1	295.3	305.7	323.7	436.4	793.2	2090.9	5960.4	7575.3	9047.1	11589.6
72.5°	265.0	277.3	286.8	303.8	430.7	786.6	1766.3	4800.0	5655.6	6720.5	9422.9
75°	246.1	257.5	264.1	281.1	412.7	720.3	1388.6	4061.7	4232.0	4675.0	7505.2
77.5°	224.3	232.9	238.5	257.5	365.4	599.2	1004.3	3133.1	3286.4	3394.3	5754.1
80°	198.8	207.3	210.1	228.1	302.9	468.5	655.0	2314.3	2458.2	2482.8	3757.8
82.5°	169.4	178.0	178.0	195.0	248.0	337.0	429.7	1585.5	1613.9	1697.2	2656.0
85°	136.3	142.9	142.9	151.4	192.1	251.8	295.3	796.0	787.5	899.2	2301.1
87.5°	97.5	102.2	107.0	108.9	137.2	166.6	178.0	242.3	160.0	183.6	1477.6
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	6682.7	6736.6	6681.7	6642.0	6470.6	6329.6	6141.2	6044.7
5°	7183.4	7320.6	7274.2	7107.7	6749.9	6347.6	5890.4	5684.0
7.5°	7122.8	7441.8	7449.4	7137.9	6610.7	6018.2	5399.1	5105.7
10°	6651.4	7059.4	7175.8	6873.9	6314.4	5651.9	4941.9	4606.9
12.5°	6125.1	6524.6	6613.6	6509.4	6041.8	5376.4	4656.1	4327.6
15°	5694.5	5873.4	5979.4	6070.2	5808.0	5266.6	4640.0	4279.4
17.5°	5432.3	5412.4	5442.7	5600.7	5645.2	5392.5	4886.1	4488.5
20°	5337.6	5033.8	5026.2	5243.9	5568.6	5692.6	5366.9	4889.9
22.5°	5389.7	4897.5	4835.0	5093.4	5609.3	6125.1	5997.4	5453.1
25°	5569.5	4908.8	4858.6	5108.5	5756.9	6586.1	6677.9	6181.9
27.5°	5852.5	4980.8	4914.5	5171.0	5952.9	6973.2	7348.1	6888.1
30°	6121.3	5105.7	5023.3	5294.1	6131.8	7126.6	7758.9	7438.9
32.5°	6447.9	5339.5	5194.7	5520.3	6353.3	7370.8	8125.2	7895.2
35°	6767.8	5672.7	5492.8	5869.6	6600.3	7674.6	8543.6	8478.3
37.5°	7119.0	6108.1	5959.5	6321.1	6938.2	7961.4	9077.4	9161.7
40°	7493.8	6685.5	6509.4	6979.9	7462.6	8321.1	9634.9	9837.5
42.5°	7871.5	7326.3	7116.2	7593.2	8039.1	8676.1	10112.0	10412.1
45°	8304.1	8022.0	7922.6	8438.5	8592.8	9014.0	10464.1	10837.1
47.5°	8807.7	8811.4	8971.4	9177.8	9151.3	9396.4	10818.1	11216.6
50°	9395.5	9796.8	10149.9	10287.1	9726.8	9807.2	11309.4	11724.9
52.5°	10101.6	10975.3	11412.6	11322.6	10346.8	10308.9	12087.5	12425.4
55°	10984.7	12222.8	12657.3	12592.9	11059.5	10992.3	13056.7	13253.6
57.5°	12007.0	13431.6	13831.0	13541.4	11915.2	11742.0	13858.5	13900.1
60°	12905.3	14389.5	14739.7	14418.8	12778.4	12539.9	14359.2	14157.6
62.5°	13405.1	14714.1	14960.2	14614.8	13370.0	13389.9	14469.0	14018.4
65°	13181.7	13893.5	13973.0	13944.6	13217.6	13883.1	14074.3	13375.7
67.5°	11958.7	11818.6	11952.1	12136.7	11911.4	13233.7	12981.0	11975.8
70°	9804.4	9034.8	9300.8	9424.8	9527.0	11388.0	11266.8	9754.2
72.5°	7388.8	6329.6	6539.7	6514.2	6987.4	9134.2	8762.2	7172.0
75°	5235.4	4291.7	4318.2	4307.8	4875.7	7146.5	6344.7	4906.9
77.5°	3663.2	3109.4	3123.6	3182.3	3277.9	5389.7	4533.0	3584.6
80°	2518.8	2359.8	2438.3	2443.0	2271.7	3620.6	3348.9	2876.6
82.5°	1876.1	1640.4	1621.4	1648.9	1780.5	2933.4	2573.7	1995.3
85°	1536.3	971.2	780.9	978.7	1577.9	2905.0	1709.5	1052.6
87.5°	865.1	461.0	208.2	386.2	629.5	1923.4	494.1	134.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)