

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: P191280

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191280  
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-02-LED-E1-SLL-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8846.5 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

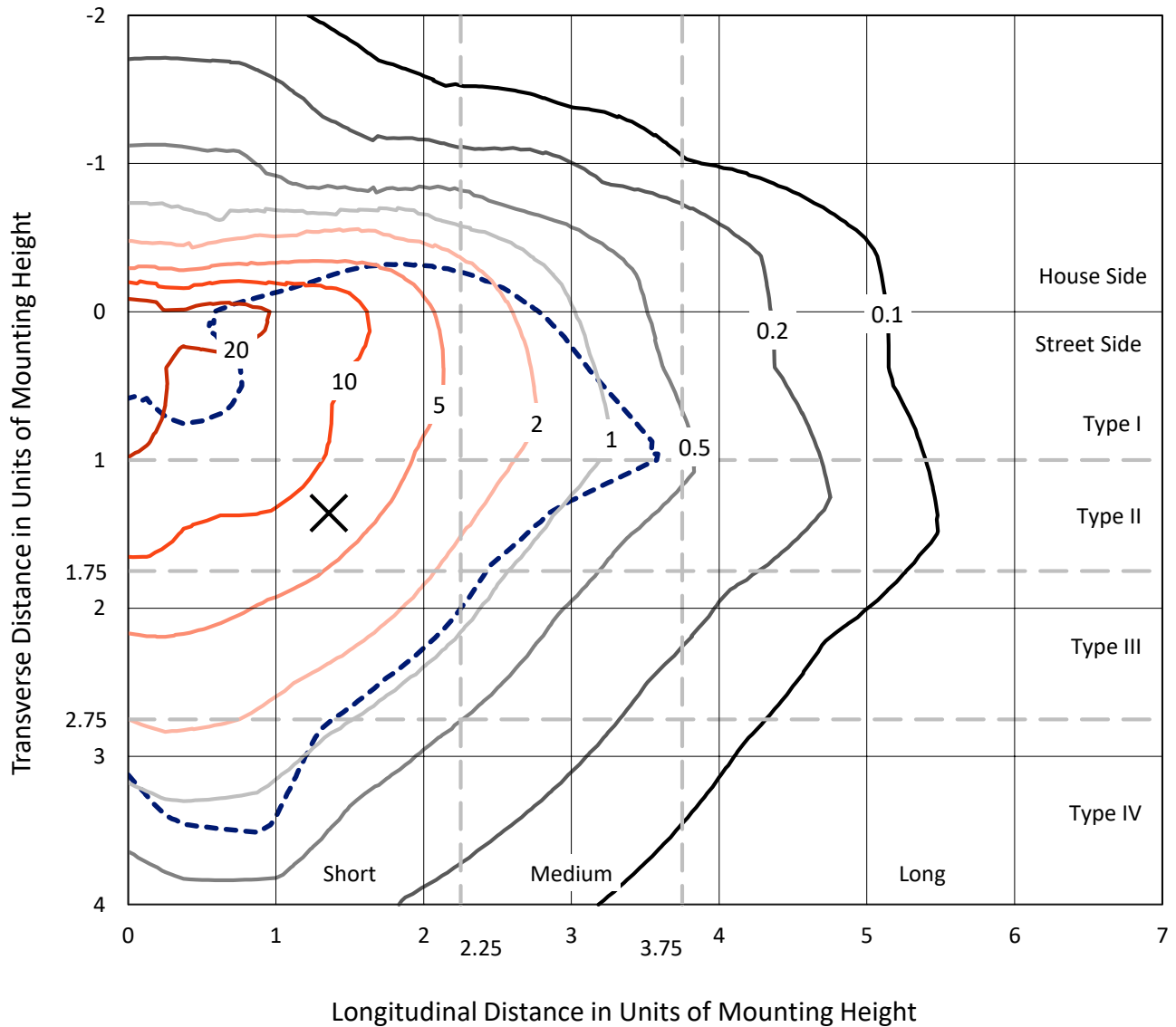
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

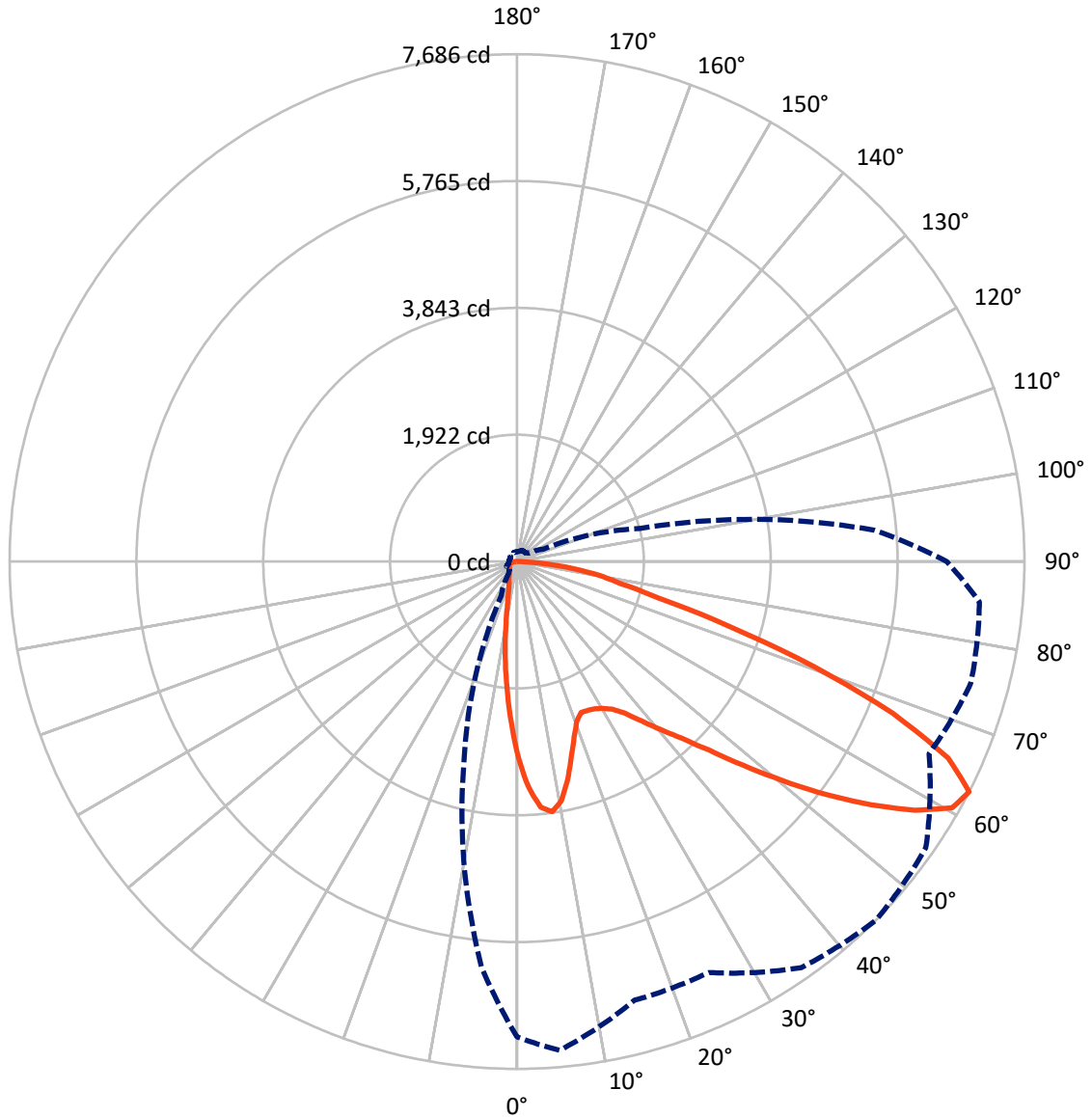
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1464.0	0.0	1464.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7382.5	0.0	7382.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8846.5	0.0	8846.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	2.5
10°-20°	399.0	4.5
20°-30°	581.7	6.6
30°-40°	895.9	10.1
40°-50°	1318.5	14.9
50°-60°	1934.0	21.9
60°-70°	2161.9	24.4
70°-80°	1058.5	12.0
80°-90°	279.5	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°	8846.5	100.0
0°-180°	8846.5	100.0



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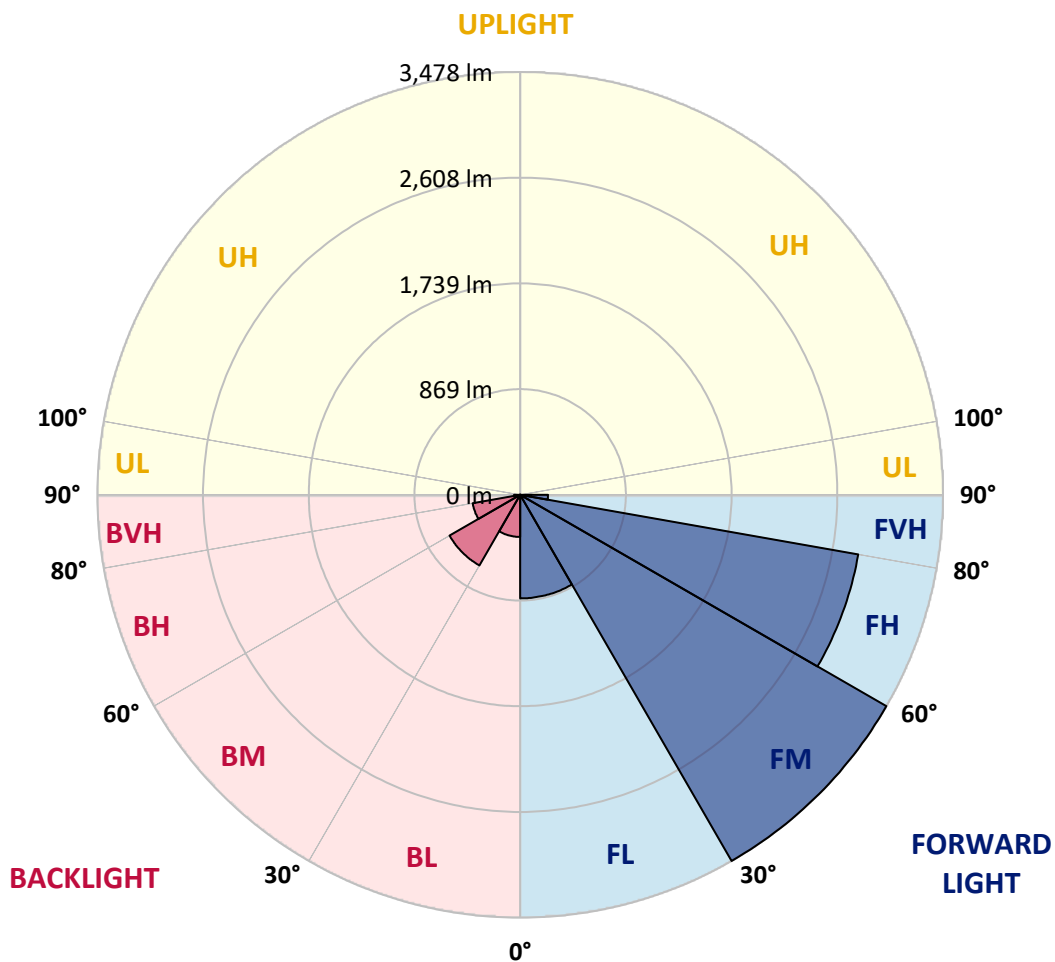
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.9	9.6			
FM	(30°-60°)	3477.6	39.3			
FH	(60°-80°)	2823.5	31.9			G2/5000
FVH	(80°-90°)	229.5	2.6			G3/500
BL	(0°-30°)	346.4	3.9	B1/500		
BM	(30°-60°)	670.8	7.6	B1/1000		
BH	(60°-80°)	396.9	4.5	B1/500		G1/500
BVH	(80°-90°)	50.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	3105.6	3155.1	3251.9	3324.4	3412.4	3432.8	3461.1	3433.3	3384.2	3319.1	3297.6
5°	2920.2	3026.3	3261.2	3467.8	3651.6	3737.2	3761.1	3690.6	3548.1	3360.8	3246.5
7.5°	2623.2	2773.8	3091.9	3396.3	3667.2	3827.2	3823.3	3659.4	3397.3	3092.4	2909.1
10°	2366.8	2539.0	2903.7	3244.1	3531.5	3686.6	3626.9	3417.3	3104.6	2753.5	2554.5
12.5°	2223.4	2392.2	2762.2	3104.0	3344.3	3397.8	3352.1	3146.9	2852.2	2497.1	2323.0
15°	2198.5	2383.9	2705.8	2983.9	3118.7	3072.0	3017.5	2925.6	2717.5	2414.5	2233.1
17.5°	2306.0	2510.3	2770.5	2900.3	2877.5	2796.2	2780.7	2790.9	2740.8	2506.4	2297.3
20°	2512.3	2757.4	2924.6	2860.9	2694.1	2582.2	2586.1	2742.2	2890.6	2739.4	2500.6
22.5°	2801.6	3081.2	3146.9	2881.9	2616.8	2484.0	2516.2	2769.0	3129.3	3079.8	2774.9
25°	3176.1	3430.9	3383.7	2957.7	2624.6	2496.2	2522.0	2861.4	3411.4	3420.1	3114.3
27.5°	3538.8	3775.2	3582.6	3058.3	2656.7	2524.8	2558.9	3006.8	3680.8	3789.7	3502.4
30°	3821.8	3986.2	3661.3	3150.3	2719.9	2580.8	2623.2	3145.0	3803.3	4039.2	3801.0
32.5°	4056.2	4174.5	3786.9	3264.0	2836.1	2668.9	2743.2	3312.7	3979.9	4276.5	4093.2
35°	4355.8	4389.4	3943.0	3391.0	3015.6	2822.0	2914.4	3477.1	4148.2	4516.3	4381.1
37.5°	4706.9	4663.6	4090.3	3564.6	3247.6	3061.8	3138.1	3657.5	4286.8	4788.1	4675.3
40°	5054.2	4950.1	4275.1	3834.0	3586.0	3344.3	3434.8	3850.1	4416.1	5060.4	4962.7
42.5°	5349.3	5195.2	4457.4	4130.2	3901.1	3656.0	3763.9	4044.1	4539.7	5293.0	5212.2
45°	5567.7	5376.1	4631.1	4414.6	4335.4	4070.3	4121.4	4266.3	4673.4	5486.9	5417.4
47.5°	5762.7	5558.0	4827.5	4701.6	4715.2	4609.2	4527.0	4525.0	4830.9	5645.5	5611.5
50°	6023.9	5810.4	5038.5	4997.2	5285.2	5214.6	5033.2	4827.0	5030.4	5825.4	5821.5
52.5°	6383.7	6210.1	5296.3	5315.8	5817.1	5863.3	5638.7	5189.8	5342.6	6155.6	6132.3
55°	6809.2	6708.1	5647.4	5682.0	6469.8	6502.8	6279.6	5643.5	5801.6	6633.6	6569.0
57.5°	7141.3	7119.9	6032.5	6121.5	6957.1	7105.8	6900.6	6168.7	6319.0	7036.3	6873.9
60°	7273.6	7377.2	6442.5	6565.1	7407.8	7572.7	7392.8	6630.3	6777.6	7203.1	6853.0
62.5°	7202.2	7433.6	6879.2	6869.0	7508.6	7686.0	7559.6	6887.0	7117.5	7030.9	6506.3
65°	6872.0	7230.8	7132.6	6790.8	7164.2	7178.8	7137.9	6772.2	7197.8	6486.8	5836.1
67.5°	6152.7	6669.1	6799.0	6119.6	6235.4	6140.6	6071.9	6143.9	6779.5	5671.2	4904.8
70°	5011.3	5788.5	5850.7	4894.6	4842.1	4778.4	4641.7	5037.1	5954.3	4648.1	3891.9
72.5°	3684.7	4501.7	4692.8	3589.8	3346.7	3359.9	3251.9	3796.1	4841.1	3452.8	2905.7
75°	2521.0	3259.7	3671.6	2504.9	2213.2	2218.5	2204.9	2689.7	3855.9	2401.9	2174.3
77.5°	1841.6	2329.0	2769.0	1684.1	1635.0	1604.8	1597.5	1882.0	2956.2	1743.9	1688.5
80°	1477.9	1720.5	1860.1	1167.1	1255.2	1252.7	1212.4	1294.0	1930.6	1275.6	1262.9
82.5°	1025.1	1322.3	1507.0	914.7	847.1	833.0	842.8	963.8	1364.6	872.0	829.1
85°	540.7	878.3	1492.5	810.7	502.9	401.2	499.0	789.3	1182.2	462.0	404.6
87.5°	69.0	253.9	988.2	323.4	198.5	107.0	236.8	444.5	759.1	94.3	82.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	3242.7	3178.0	3093.4	3015.0	2933.8	2853.1	2747.6	2681.5	2635.7	2627.0	2607.6
5°	3163.9	2949.0	2786.5	2646.0	2518.6	2338.7	2238.9	2156.3	2112.0	2107.6	2096.9
7.5°	2800.6	2504.0	2284.7	2085.8	1905.3	1759.9	1599.5	1524.6	1493.9	1501.2	1508.5
10°	2422.8	2091.1	1839.2	1635.9	1476.9	1354.4	1225.5	1138.4	1078.1	1066.0	1063.6
12.5°	2146.6	1782.8	1538.2	1394.7	1271.7	1156.4	1019.8	917.2	838.9	812.1	794.1
15°	2029.8	1632.0	1375.8	1221.1	1085.5	939.1	812.1	704.6	632.7	609.4	596.2
17.5°	2054.6	1590.2	1263.9	1066.0	892.3	739.7	579.7	487.7	444.5	433.3	433.3
20°	2184.9	1582.4	1171.5	923.0	706.6	529.6	398.2	345.8	331.6	330.2	334.1
22.5°	2367.8	1609.6	1102.4	799.0	549.0	386.6	310.3	290.8	284.5	285.9	290.3
25°	2640.1	1701.6	1052.3	688.7	430.9	316.6	276.7	265.0	262.1	266.0	271.4
27.5°	2963.1	1793.4	1021.2	605.5	363.8	289.4	263.1	250.9	252.9	257.8	262.6
30°	3246.5	1868.8	972.1	546.2	342.9	290.8	263.1	246.5	244.6	245.6	247.0
32.5°	3500.8	1919.9	914.7	489.7	295.6	258.2	245.6	243.2	232.4	228.5	229.0
35°	3720.3	1919.9	880.2	456.6	265.0	229.0	208.6	196.5	191.1	191.6	196.9
37.5°	3931.7	1881.5	863.2	438.1	248.5	217.9	199.9	189.1	181.9	180.4	181.4
40°	4118.5	1825.6	843.7	430.4	235.9	211.0	194.1	185.3	177.5	175.0	175.5
42.5°	4268.3	1780.3	822.4	420.1	228.1	206.2	190.2	182.4	173.6	171.1	170.7
45°	4430.2	1765.3	794.1	399.8	232.0	206.6	189.1	180.9	172.2	169.2	168.3
47.5°	4643.7	1812.5	765.0	375.4	240.2	209.1	190.7	180.9	171.7	169.2	168.3
50°	4912.6	1923.4	728.0	339.9	232.0	215.9	190.2	179.4	171.7	169.2	167.3
52.5°	5257.9	2073.1	679.3	299.1	227.1	232.4	189.1	176.6	169.2	165.8	162.4
55°	5677.6	2195.7	621.5	265.6	215.9	228.1	187.7	173.1	165.3	160.5	157.5
57.5°	5985.0	2240.0	547.1	243.7	200.4	220.8	185.8	168.8	160.5	156.6	152.7
60°	5924.1	2154.3	484.4	230.1	191.1	199.4	184.3	164.9	156.1	153.1	149.8
62.5°	5437.4	1930.6	444.0	223.7	185.3	181.9	185.8	161.0	152.2	149.2	148.3
65°	4707.4	1600.4	427.9	222.3	180.4	171.7	172.7	156.6	147.8	145.4	144.4
67.5°	3883.1	1291.6	413.9	227.1	174.1	164.4	159.5	150.8	143.4	141.1	139.1
70°	3062.2	1074.2	407.5	224.2	166.3	157.1	151.7	144.4	138.1	135.6	134.2
72.5°	2466.0	907.5	404.2	221.3	156.1	147.3	142.5	136.2	129.4	128.4	126.9
75°	2086.7	713.4	370.1	212.1	144.4	135.6	132.3	126.4	119.6	119.6	118.7
77.5°	1609.6	516.0	307.8	187.7	132.3	122.5	119.6	115.3	107.5	108.9	108.4
80°	1189.0	336.6	240.7	155.6	117.2	107.9	106.5	102.1	93.9	95.9	95.9
82.5°	814.6	220.8	173.1	127.5	100.1	91.5	91.5	87.1	77.8	78.8	81.7
85°	409.0	151.7	129.4	98.7	77.8	73.4	73.4	70.1	60.8	61.3	65.2
87.5°	124.5	91.5	85.6	70.5	56.0	54.9	52.5	50.1	44.3	43.8	46.2
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°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	2577.9	2550.2	2516.7	2442.7	2417.8	2416.4	2438.8	2415.5	2460.2	2441.3	2462.1
5°	2078.9	2051.7	2014.3	1919.9	1862.6	1823.6	1805.2	1750.7	1790.1	1761.4	1785.3
7.5°	1528.9	1535.2	1510.5	1455.0	1330.0	1267.3	1230.3	1197.3	1226.0	1223.0	1268.8
10°	1074.7	1091.8	1074.2	1018.3	917.2	882.6	889.5	902.5	940.0	959.4	1030.0
12.5°	773.7	772.7	761.6	711.5	644.9	648.8	676.5	699.3	733.9	754.2	826.2
15°	577.8	569.0	564.2	523.2	485.3	493.6	507.2	509.6	531.5	543.7	602.0
17.5°	436.7	441.1	446.4	417.3	388.5	383.2	372.6	359.4	365.7	368.2	397.3
20°	346.8	364.3	377.4	356.9	327.8	312.2	298.6	289.8	289.8	289.4	297.6
22.5°	303.0	315.6	329.7	315.6	289.4	275.7	267.9	261.2	260.1	260.1	267.9
25°	279.2	288.4	302.0	292.3	272.8	262.6	255.3	246.5	243.2	242.1	247.6
27.5°	267.5	271.4	278.1	269.4	252.9	248.1	246.0	238.2	233.9	231.5	236.8
30°	247.6	246.5	247.0	238.2	225.2	224.6	228.1	229.6	228.1	227.6	235.9
32.5°	229.0	227.1	226.6	218.8	206.6	203.8	206.6	209.6	213.0	217.9	227.6
35°	205.7	210.5	213.5	206.6	192.1	183.3	179.9	174.6	171.7	171.7	182.8
37.5°	187.2	198.5	202.7	196.5	180.4	168.3	162.4	161.4	161.9	163.9	174.6
40°	180.9	189.1	193.0	186.8	170.7	159.5	156.1	155.2	156.1	159.1	169.7
42.5°	177.0	182.8	182.4	174.6	161.4	153.6	151.7	150.8	151.7	154.7	166.3
45°	173.6	177.5	173.6	164.4	152.2	148.3	148.8	148.3	149.2	152.2	163.4
47.5°	170.7	172.2	167.3	158.0	145.4	144.4	146.4	147.8	148.8	151.2	163.0
50°	166.3	166.3	161.9	152.2	139.5	140.0	142.5	145.9	146.4	149.2	158.6
52.5°	161.0	160.5	157.5	148.3	134.7	136.2	136.2	140.0	141.1	144.4	154.2
55°	156.6	155.6	154.2	145.4	130.3	132.8	131.3	132.8	135.2	138.6	149.2
57.5°	152.7	150.8	150.8	143.0	126.9	127.9	124.5	126.4	129.4	132.3	143.4
60°	148.8	146.9	147.8	139.5	121.5	120.6	119.2	123.1	124.0	127.5	138.6
62.5°	144.4	143.0	143.4	135.6	117.6	115.3	115.3	118.7	119.2	124.0	134.7
65°	141.1	139.1	138.6	131.8	113.3	110.4	111.8	113.3	114.3	119.2	129.4
67.5°	137.6	133.7	133.7	128.4	108.4	105.6	108.4	107.9	109.5	113.8	122.0
70°	133.3	127.9	128.4	125.9	103.6	100.1	102.6	102.1	103.1	106.0	114.3
72.5°	126.4	122.0	123.1	122.0	98.7	93.9	94.8	94.8	94.8	97.3	106.0
75°	117.6	114.3	117.2	119.6	92.9	86.0	87.1	87.1	85.6	87.1	97.8
77.5°	107.0	105.1	114.8	111.4	86.0	77.8	77.8	76.8	74.0	75.9	87.6
80°	95.3	93.9	106.0	93.4	78.3	67.6	66.6	64.2	61.3	62.7	74.4
82.5°	83.2	81.7	89.0	71.5	67.6	56.0	53.5	49.1	46.2	47.7	58.3
85°	68.1	68.1	68.5	54.0	51.6	42.8	39.9	34.1	30.6	31.6	41.8
87.5°	48.6	50.1	46.2	36.9	30.6	23.8	21.9	18.5	15.5	18.0	21.9
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	2569.1	2622.6	2683.4	2761.3	2827.8	2937.3	3042.4	3105.6
5°	1920.9	2009.9	2120.8	2263.3	2396.1	2595.4	2793.4	2920.2
7.5°	1374.7	1470.1	1589.8	1767.8	1955.5	2209.8	2471.3	2623.2
10°	1137.4	1235.2	1335.9	1456.0	1609.6	1886.3	2195.7	2366.8
12.5°	941.0	1045.6	1154.0	1280.4	1422.9	1670.0	2026.5	2223.4
15°	720.3	836.9	964.8	1124.8	1303.3	1588.7	1984.6	2198.5
17.5°	493.6	623.9	781.0	978.5	1196.8	1562.5	2059.5	2306.0
20°	339.9	434.8	602.5	834.0	1096.6	1559.1	2203.4	2512.3
22.5°	284.5	326.8	449.4	701.2	1021.2	1600.9	2426.6	2801.6
25°	263.1	288.4	358.9	585.9	966.3	1697.2	2734.0	3176.1
27.5°	250.4	273.3	325.8	510.7	923.0	1809.1	3033.0	3538.8
30°	255.3	278.7	316.6	472.2	864.2	1902.4	3298.6	3821.8
32.5°	230.1	240.2	271.4	438.1	821.8	1980.7	3531.0	4056.2
35°	196.0	214.0	242.1	422.1	822.9	2033.2	3784.4	4355.8
37.5°	186.8	204.7	225.2	416.2	834.0	2089.2	4075.2	4706.9
40°	180.9	197.4	214.9	412.9	844.8	2140.2	4360.2	5054.2
42.5°	177.0	192.1	214.0	401.2	850.1	2185.9	4594.6	5349.3
45°	176.6	192.1	217.9	389.5	858.4	2235.0	4791.1	5567.7
47.5°	177.0	198.5	210.5	375.4	858.4	2317.2	5021.6	5762.7
50°	175.0	209.1	202.7	355.5	838.4	2472.9	5337.7	6023.9
52.5°	174.1	207.7	187.7	324.9	803.8	2719.9	5742.7	6383.7
55°	171.7	200.4	177.0	279.2	763.5	2989.3	6176.6	6809.2
57.5°	169.2	177.5	171.1	239.3	701.2	3178.9	6475.1	7141.3
60°	189.7	155.2	166.3	219.8	618.1	3231.0	6463.4	7273.6
62.5°	175.5	145.4	160.0	215.4	559.8	3085.1	6164.8	7202.2
65°	137.6	139.1	153.6	228.1	544.2	2698.5	5635.7	6872.0
67.5°	125.9	132.8	147.3	244.1	545.6	2160.7	4845.0	6152.7
70°	118.7	125.9	140.0	252.4	549.5	1610.6	3830.6	5011.3
72.5°	110.4	116.7	131.8	253.9	524.3	1170.1	2952.3	3684.7
75°	100.7	106.5	120.1	221.3	434.2	811.6	2258.4	2521.0
77.5°	89.5	93.9	105.6	170.7	322.4	519.4	1695.2	1841.6
80°	76.3	78.8	88.5	125.0	220.8	324.9	1341.2	1477.9
82.5°	61.3	62.3	68.5	93.9	143.4	208.6	898.2	1025.1
85°	43.3	43.3	47.2	68.1	97.8	132.3	487.7	540.7
87.5°	20.5	20.9	20.9	37.4	51.0	67.1	112.3	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)