

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: P192219

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T2R-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7122 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

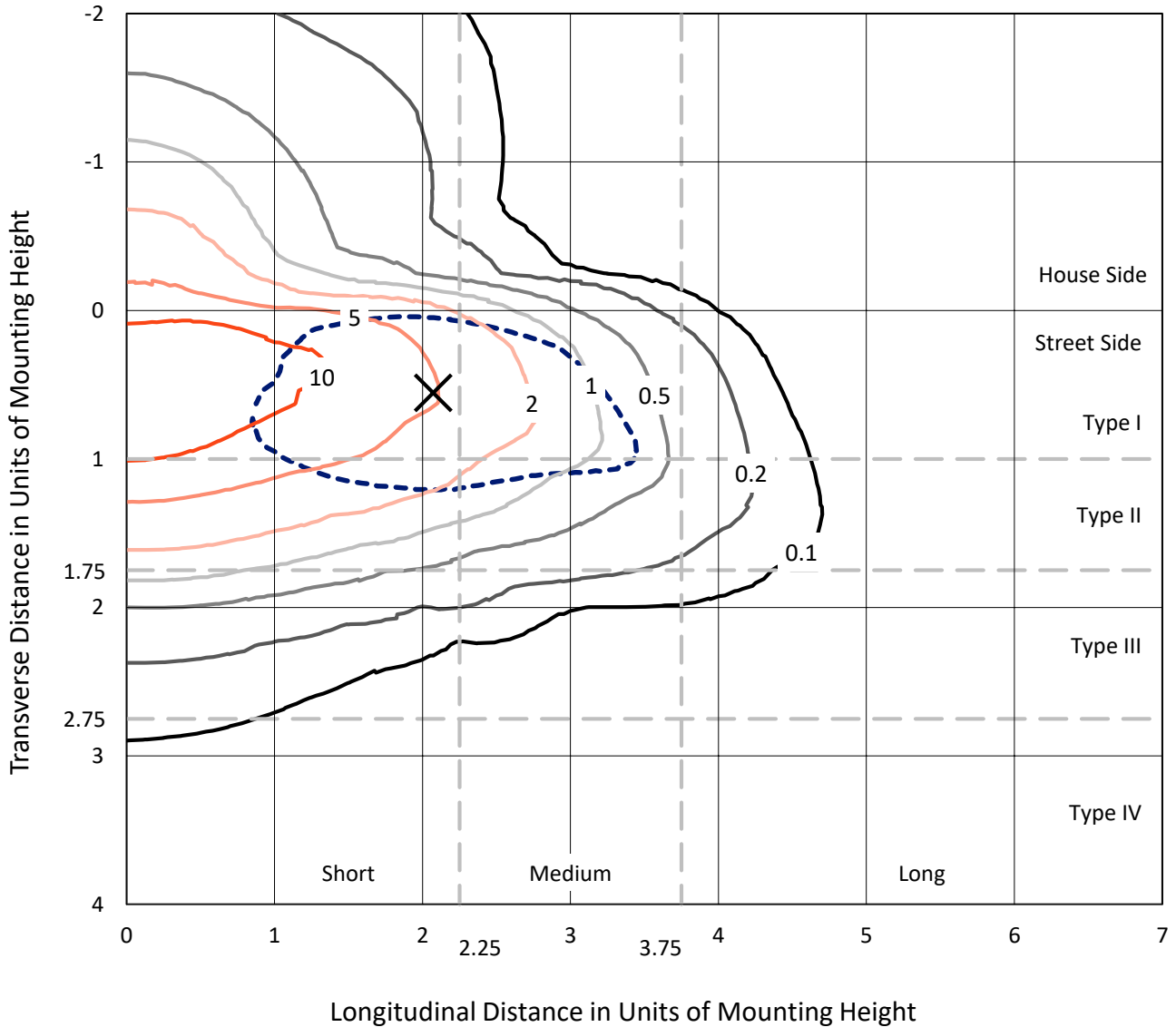


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### Iso-Footcandle Lines of Horizontal Illumination

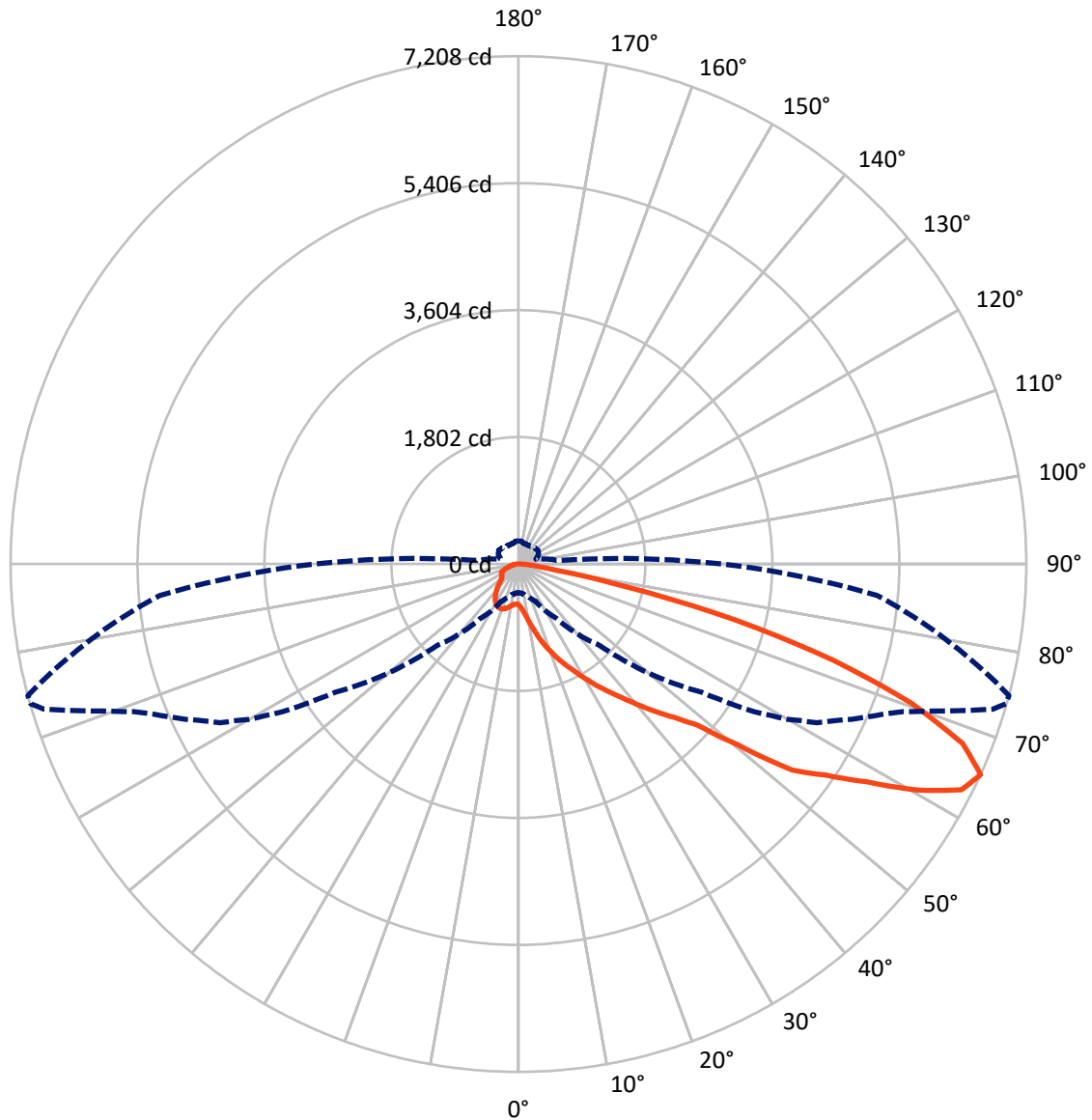
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1098.0	0.0	1098.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	6024.0	0.0	6024.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	7122.0	0.0	7122.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	1.0
10°-20°	279.5	3.9
20°-30°	573.5	8.1
30°-40°	964.9	13.5
40°-50°	1333.2	18.7
50°-60°	1664.2	23.4
60°-70°	1497.6	21.0
70°-80°	627.8	8.8
80°-90°	109.7	1.5
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°	7122.0	100.0
0°-180°	7122.0	100.0



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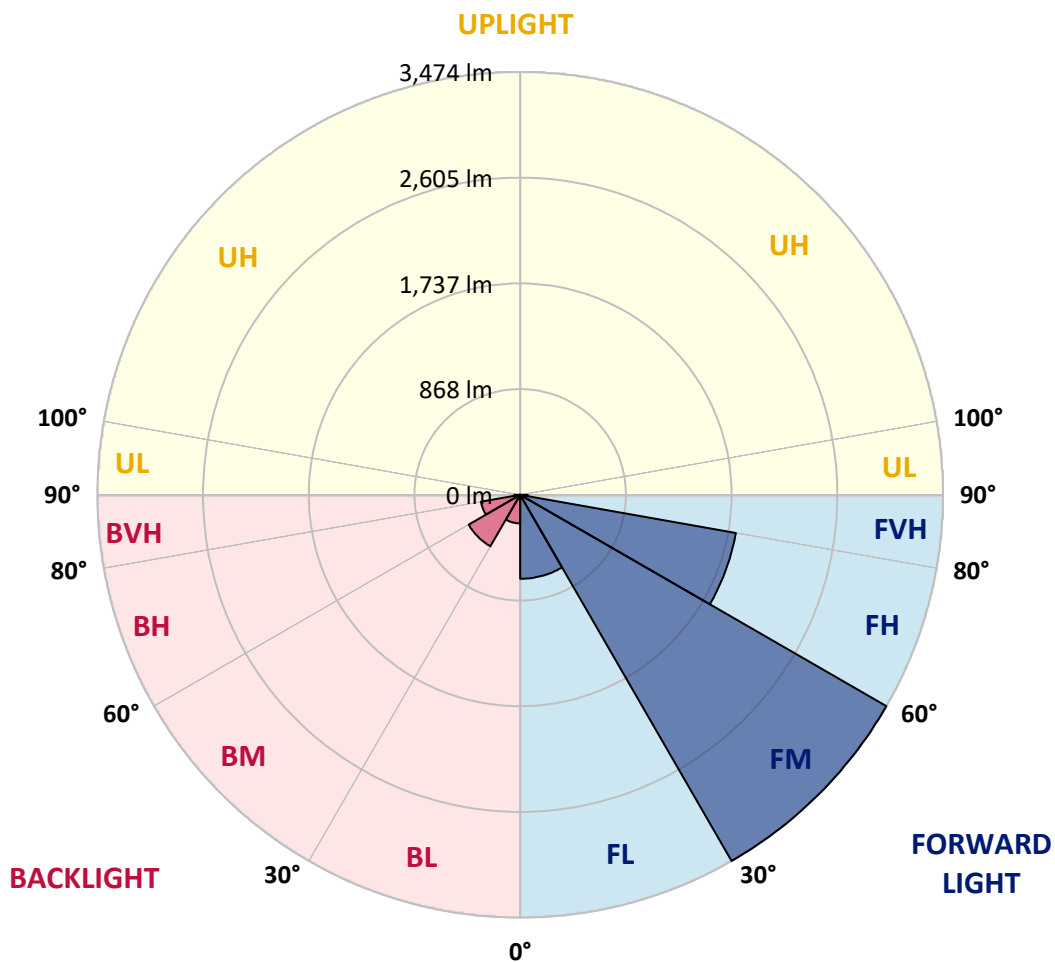
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.7	9.7			
FM	(30°-60°)	3473.6	48.8			
FH	(60°-80°)	1799.0	25.3			G1/1800
FVH	(80°-90°)	61.6	0.9			G1/100
BL	(0°-30°)	234.8	3.3	B1/500		
BM	(30°-60°)	488.8	6.9	B1/1000		
BH	(60°-80°)	326.4	4.6	B1/500		G1/500
BVH	(80°-90°)	48.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	734.9	726.8	728.8	715.3	698.8	677.2	653.3	653.0	653.3	650.9	642.2
5°	1019.0	1009.3	1005.6	975.2	930.7	867.4	798.6	791.2	788.1	780.4	762.5
7.5°	1226.4	1221.0	1215.2	1192.3	1151.9	1081.1	988.7	972.9	957.7	954.0	933.8
10°	1360.2	1358.8	1346.7	1340.6	1315.4	1254.0	1164.0	1148.8	1132.3	1126.6	1105.3
12.5°	1466.0	1465.7	1460.0	1461.7	1439.7	1395.3	1317.7	1303.9	1291.8	1274.2	1259.1
15°	1539.2	1539.5	1548.0	1557.4	1554.0	1524.0	1451.2	1445.1	1434.7	1422.6	1404.7
17.5°	1599.2	1600.9	1609.6	1626.8	1645.4	1643.0	1585.4	1580.3	1571.2	1554.7	1545.3
20°	1734.7	1741.1	1724.3	1724.3	1726.3	1735.4	1707.7	1703.7	1690.9	1682.1	1674.7
22.5°	1963.6	1971.0	1932.9	1894.2	1856.1	1828.4	1800.8	1805.8	1797.1	1791.0	1786.6
25°	2260.9	2266.7	2205.0	2139.6	2062.0	1960.9	1892.5	1889.4	1884.7	1881.0	1879.0
27.5°	2540.7	2543.1	2484.8	2389.0	2299.0	2153.7	1985.5	1981.8	1976.1	1969.0	1962.9
30°	2780.1	2779.4	2719.4	2628.0	2531.6	2370.8	2126.8	2115.3	2098.4	2079.2	2064.4
32.5°	2987.4	2986.4	2920.6	2825.9	2724.8	2585.9	2320.3	2296.7	2270.4	2232.9	2210.4
35°	3150.5	3149.9	3087.8	2989.1	2873.1	2788.5	2542.1	2513.1	2479.7	2429.5	2394.8
37.5°	3212.2	3212.2	3177.5	3110.1	3007.6	2949.6	2788.5	2753.4	2717.7	2660.7	2621.6
40°	3176.1	3176.8	3184.2	3171.8	3121.9	3077.4	3018.4	2997.5	2966.8	2915.6	2874.8
42.5°	3055.1	3058.8	3108.1	3168.4	3193.3	3186.3	3222.3	3212.9	3191.3	3151.9	3119.5
45°	2901.7	2913.2	2967.1	3081.1	3213.2	3280.3	3393.2	3394.2	3390.2	3369.0	3344.0
47.5°	2691.1	2707.2	2778.4	2932.4	3166.7	3371.7	3566.8	3575.9	3584.4	3570.6	3559.1
50°	2411.3	2430.5	2537.0	2741.3	3072.0	3466.4	3894.8	3936.0	3974.4	3969.7	3977.4
52.5°	2111.6	2134.2	2264.6	2492.2	2909.2	3488.3	4104.5	4171.6	4238.7	4293.6	4351.9
55°	1841.2	1829.1	1959.6	2199.2	2641.5	3389.5	4293.0	4373.9	4448.7	4516.1	4585.6
57.5°	1474.8	1494.7	1625.5	1862.5	2287.2	3110.7	4422.7	4541.1	4648.6	4760.2	4858.6
60°	1078.0	1097.9	1239.8	1480.5	1902.6	2688.0	4323.6	4503.0	4675.2	4846.1	4979.6
62.5°	650.9	665.8	790.8	1020.1	1467.1	2186.8	3882.0	4117.3	4370.8	4575.1	4779.7
65°	405.2	413.6	459.8	585.9	942.2	1632.6	3171.8	3428.3	3701.3	3960.6	4173.3
67.5°	331.7	334.7	343.2	370.1	517.4	1064.6	2360.7	2587.9	2834.3	3085.1	3321.8
70°	298.3	296.3	296.3	298.0	331.7	572.4	1545.6	1693.6	1898.9	2117.0	2333.4
72.5°	269.3	267.3	263.6	258.6	270.7	349.2	798.9	910.5	1058.5	1252.3	1459.6
75°	242.0	239.3	235.0	228.6	237.0	263.6	383.6	430.5	502.6	605.8	721.4
77.5°	213.7	210.3	206.3	201.6	212.4	205.0	224.8	241.7	269.3	302.4	345.9
80°	181.7	178.7	177.3	175.0	187.8	156.1	158.8	169.2	185.4	203.3	223.5
82.5°	142.3	142.3	147.6	148.7	162.8	112.3	118.7	127.8	136.2	145.6	155.1
85°	93.7	94.4	112.6	119.7	128.4	75.5	89.0	92.0	98.8	104.2	108.2
87.5°	29.3	31.7	68.8	76.2	73.8	42.8	54.6	56.0	60.7	64.4	67.8
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	642.2	638.1	634.4	634.1	631.4	627.7	629.0	623.3	623.6	620.6	617.2
5°	755.1	752.4	738.9	735.2	725.1	718.7	717.7	704.2	702.5	694.8	686.3
7.5°	917.6	908.8	889.9	880.8	863.6	850.8	844.8	826.9	818.1	797.9	788.8
10°	1087.8	1076.7	1053.4	1040.6	1024.1	1003.5	992.4	966.5	956.3	937.8	915.6
12.5°	1245.6	1234.5	1210.5	1200.7	1178.8	1156.9	1144.8	1115.5	1102.3	1072.6	1055.1
15°	1391.5	1380.4	1359.5	1349.4	1327.5	1309.6	1293.4	1264.5	1249.0	1221.3	1198.4
17.5°	1533.1	1521.3	1503.1	1494.0	1472.8	1454.6	1437.1	1409.7	1393.9	1366.3	1345.7
20°	1664.6	1655.8	1642.7	1630.5	1609.3	1592.8	1571.9	1548.3	1525.4	1505.1	1485.6
22.5°	1779.2	1775.8	1761.7	1756.3	1738.1	1723.9	1705.7	1682.5	1665.9	1640.3	1622.1
25°	1878.0	1877.0	1870.2	1868.5	1855.7	1842.2	1838.2	1819.0	1803.8	1781.2	1762.4
27.5°	1962.9	1963.9	1962.3	1967.0	1963.6	1957.5	1957.9	1951.5	1942.7	1923.8	1907.3
30°	2057.3	2051.9	2055.0	2061.7	2063.7	2064.4	2075.5	2079.2	2078.6	2066.1	2058.0
32.5°	2190.8	2178.0	2166.2	2165.2	2171.9	2174.6	2193.5	2203.3	2211.7	2214.7	2216.1
35°	2361.0	2335.4	2310.8	2297.7	2286.2	2289.2	2302.7	2318.6	2337.1	2349.9	2365.1
37.5°	2575.4	2544.1	2500.6	2469.6	2461.8	2445.0	2453.7	2466.2	2484.4	2504.3	2530.6
40°	2835.3	2787.8	2738.9	2697.8	2675.6	2644.5	2644.2	2641.8	2653.0	2671.5	2708.6
42.5°	3085.5	3043.3	2991.4	2948.3	2919.3	2877.8	2869.4	2847.5	2852.5	2868.7	2904.8
45°	3319.7	3285.0	3253.3	3203.5	3178.8	3134.0	3119.8	3093.9	3079.4	3086.8	3122.9
47.5°	3546.6	3524.4	3491.3	3459.0	3440.1	3400.0	3381.8	3363.2	3344.7	3344.0	3381.8
50°	3988.9	3977.1	3938.0	3904.3	3913.4	3864.2	3867.2	3817.3	3839.9	3842.6	3921.8
52.5°	4404.5	4445.7	4474.7	4510.0	4533.0	4537.4	4552.5	4575.1	4602.4	4656.3	4729.8
55°	4642.5	4694.1	4724.1	4751.1	4795.6	4805.0	4830.3	4860.3	4884.2	4944.9	5007.3
57.5°	4925.4	5021.1	5067.6	5110.4	5170.4	5193.3	5235.5	5268.2	5299.2	5371.0	5446.5
60°	5099.6	5216.3	5311.0	5378.7	5453.9	5507.9	5571.6	5622.8	5695.6	5781.6	5894.2
62.5°	4961.1	5132.3	5258.1	5374.4	5476.5	5579.7	5671.0	5766.8	5877.3	6007.4	6182.1
65°	4409.3	4583.5	4798.9	4919.6	5054.8	5213.9	5352.8	5507.9	5658.5	5848.0	6106.2
67.5°	3549.7	3752.2	3994.3	4116.0	4271.4	4449.0	4604.8	4794.2	4970.2	5199.7	5519.0
70°	2558.6	2820.5	3024.1	3151.2	3332.6	3515.6	3666.0	3886.4	4032.0	4267.3	4597.4
72.5°	1620.1	1826.7	2076.2	2236.3	2397.4	2582.9	2736.6	2926.7	3062.5	3276.9	3575.9
75°	871.1	1023.4	1242.5	1394.6	1567.2	1725.6	1905.6	2033.0	2133.5	2303.1	2545.8
77.5°	408.2	500.9	611.8	728.8	845.8	967.8	1086.5	1189.6	1232.8	1329.9	1473.1
80°	247.8	277.8	310.1	346.2	395.1	434.5	486.8	524.5	527.2	557.9	601.7
82.5°	165.5	176.6	186.4	195.5	208.0	217.8	228.9	242.0	247.4	254.5	268.7
85°	112.9	118.3	120.3	126.1	124.7	128.1	132.5	136.9	139.2	138.9	145.3
87.5°	69.4	72.1	73.5	74.8	73.8	72.5	74.5	76.9	77.5	75.5	76.2
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	617.9	614.9	611.8	609.8	609.1	591.3	583.5	578.5	567.7	558.9	551.8
5°	681.6	675.2	670.2	664.1	660.7	615.5	599.0	587.6	568.7	557.6	547.4
7.5°	784.1	766.2	755.8	744.0	733.9	652.3	625.0	607.1	580.8	566.0	554.5
10°	900.4	881.9	865.3	847.1	831.3	701.2	661.4	633.7	599.0	579.8	564.6
12.5°	1030.2	1012.0	991.1	967.8	947.6	763.2	707.9	668.5	620.9	595.3	574.1
15°	1183.6	1151.5	1126.2	1099.3	1075.7	837.4	762.2	707.6	644.2	609.5	581.2
17.5°	1326.1	1292.4	1258.1	1234.5	1207.2	920.6	816.8	747.3	663.4	618.6	582.5
20°	1465.4	1428.6	1399.0	1367.3	1338.6	1006.9	875.1	782.4	675.9	618.9	574.1
22.5°	1588.1	1565.1	1532.1	1497.7	1468.7	1093.2	929.7	812.1	680.6	611.2	559.2
25°	1727.6	1703.4	1662.9	1633.9	1601.6	1181.2	983.3	835.0	677.9	596.7	536.3
27.5°	1876.6	1849.7	1808.2	1777.9	1738.8	1272.5	1032.5	851.5	667.8	573.1	505.6
30°	2032.0	2007.4	1966.6	1936.0	1896.5	1369.3	1087.5	862.6	647.6	540.4	469.9
32.5°	2198.9	2178.3	2137.9	2105.9	2063.7	1474.1	1138.7	866.0	616.9	501.6	432.2
35°	2357.3	2343.2	2309.1	2279.1	2235.3	1573.2	1193.0	864.3	580.5	459.1	397.8
37.5°	2535.7	2527.2	2510.4	2472.3	2418.7	1707.7	1258.1	857.2	536.0	417.0	371.5
40°	2725.8	2726.5	2708.3	2682.3	2632.4	1870.9	1335.6	843.4	487.4	379.9	347.5
42.5°	2927.0	2937.5	2928.7	2910.2	2862.3	2035.4	1428.3	826.6	440.3	343.8	324.0
45°	3157.6	3170.4	3183.9	3156.6	3110.1	2252.5	1550.3	804.7	389.3	313.8	307.8
47.5°	3423.6	3443.8	3455.9	3456.3	3409.8	2521.5	1748.5	791.5	344.2	293.6	300.0
50°	3984.8	3991.3	4019.9	4069.8	4034.1	3144.1	2094.7	783.4	313.5	281.1	294.3
52.5°	4793.5	4864.0	4913.6	4910.2	4861.6	3539.5	2285.5	741.6	295.3	276.4	291.6
55°	5122.9	5210.9	5302.6	5326.8	5289.1	3877.0	2465.9	699.8	286.5	279.8	292.6
57.5°	5561.8	5710.1	5835.9	5888.8	5834.2	4308.8	2703.2	677.9	283.8	288.9	299.0
60°	6074.5	6257.9	6423.1	6518.1	6518.1	4805.0	2949.3	668.8	280.1	302.4	309.8
62.5°	6403.9	6673.2	6922.7	7061.9	7057.8	5150.5	3058.5	637.8	271.7	311.8	324.6
65°	6405.2	6725.5	7043.3	7199.8	7207.8	5108.1	2878.2	563.3	256.2	313.2	339.5
67.5°	5871.3	6212.7	6583.2	6758.2	6798.6	4702.2	2491.5	463.2	230.9	299.7	344.9
70°	4958.7	5292.1	5670.3	5842.3	5914.1	4008.4	2006.7	357.0	198.6	270.0	333.7
72.5°	3906.6	4233.6	4496.9	4622.6	4678.6	3063.9	1461.3	269.7	162.8	227.5	303.7
75°	2765.9	3011.3	3151.2	3179.2	3187.9	1847.0	887.9	200.6	134.2	177.0	256.5
77.5°	1561.1	1666.3	1654.8	1667.3	1563.5	713.0	386.7	143.6	110.6	134.5	198.9
80°	609.5	628.4	590.3	578.5	530.6	265.3	170.6	100.1	88.3	101.8	139.2
82.5°	268.7	277.4	269.3	271.4	259.6	136.9	102.1	72.5	67.4	74.5	92.4
85°	148.0	150.7	150.0	154.4	148.0	54.6	48.5	44.5	47.2	50.6	59.3
87.5°	72.1	72.8	70.5	74.2	71.8	27.6	23.9	25.3	27.6	28.3	28.3
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):**

	135°	145°	155°	165°	175°	180°
0°	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	546.8	544.1	544.4	543.7	542.4	542.4
5°	542.1	539.4	539.4	538.7	537.0	537.3
7.5°	546.8	542.4	540.7	538.3	536.0	536.0
10°	552.2	544.4	539.7	535.7	532.6	532.6
12.5°	556.2	544.1	536.3	530.9	527.9	527.9
15°	557.6	541.7	530.9	524.5	521.8	521.5
17.5°	553.2	532.6	519.5	512.1	508.7	507.7
20°	539.7	516.1	500.3	491.8	487.1	485.4
22.5°	519.5	492.5	474.0	465.2	459.1	458.1
25°	491.2	462.2	444.0	435.5	432.2	431.1
27.5°	458.1	431.1	415.6	410.2	407.2	406.9
30°	426.8	403.8	392.4	388.3	384.6	384.0
32.5°	397.4	382.9	378.6	372.8	364.1	363.1
35°	376.5	375.2	372.2	359.3	348.6	345.5
37.5°	363.7	376.2	360.7	335.4	327.7	327.0
40°	356.3	365.8	339.1	330.4	331.0	330.4
42.5°	339.5	349.2	339.8	335.8	338.4	339.1
45°	322.6	333.4	344.9	342.2	348.6	348.6
47.5°	313.2	329.3	344.5	344.5	354.0	357.3
50°	302.4	326.0	339.1	343.8	351.3	348.6
52.5°	301.7	320.2	331.4	339.8	343.2	340.1
55°	302.7	315.5	323.6	333.1	337.1	337.4
57.5°	304.1	312.8	318.2	322.6	334.7	334.7
60°	307.4	310.5	313.5	315.9	331.7	332.0
62.5°	312.8	308.1	307.4	309.8	330.0	328.7
65°	321.3	304.7	299.7	302.0	328.3	324.3
67.5°	332.7	299.7	289.9	291.6	327.0	318.2
70°	343.2	291.6	277.8	276.1	314.2	298.7
72.5°	344.2	282.2	260.9	255.9	273.1	258.2
75°	327.3	275.7	242.4	227.5	225.5	223.5
77.5°	295.0	272.0	220.8	197.5	193.5	194.8
80°	246.8	258.2	194.8	167.2	189.1	186.8
82.5°	184.4	227.9	165.5	148.0	147.6	130.5
85°	102.5	177.7	134.8	110.9	77.2	74.8
87.5°	28.7	98.8	94.4	62.7	42.8	44.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)