

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: P193940

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193940  
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-02-LED-E1-T2R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8365 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

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

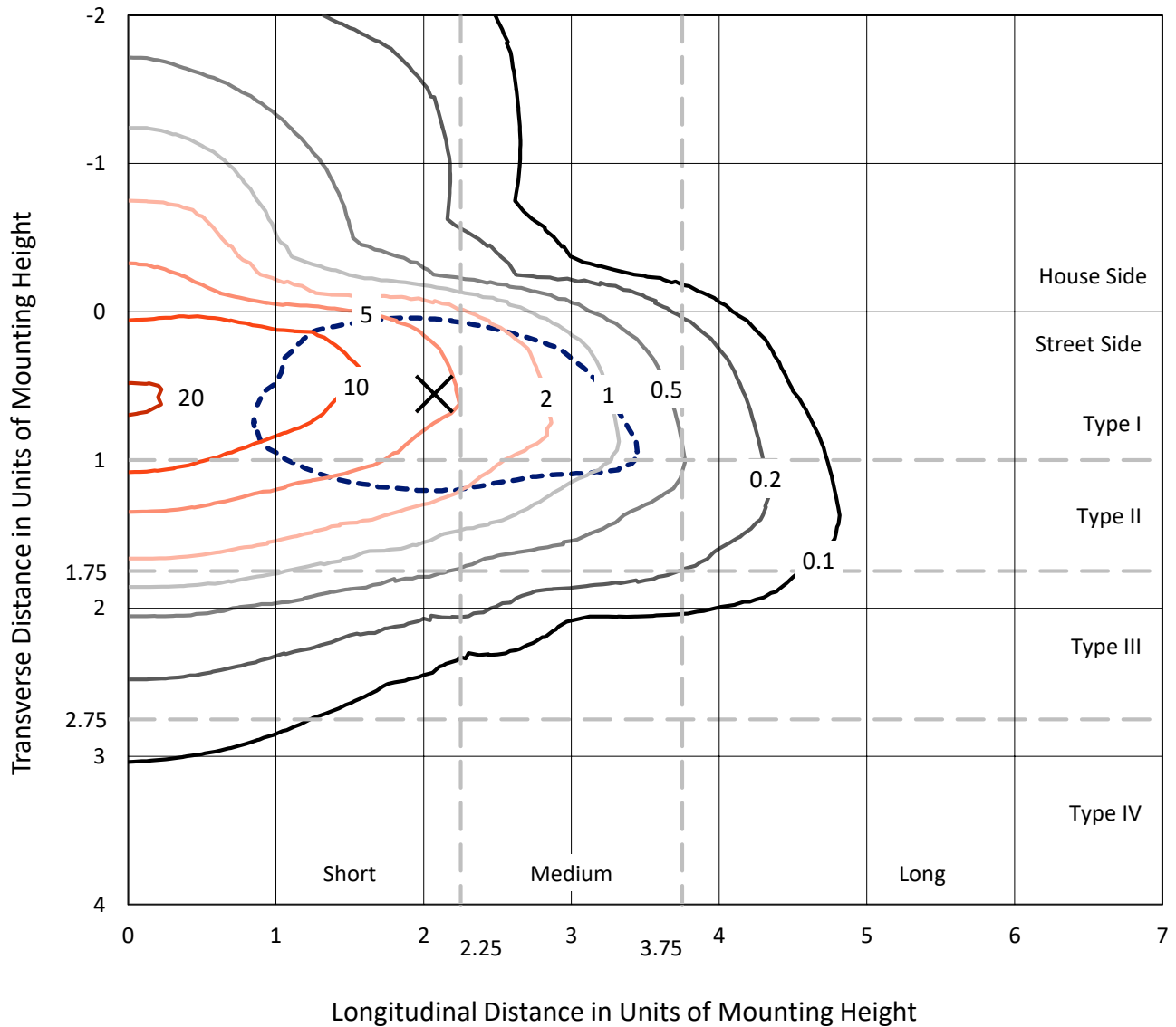


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### Iso-Footcandle Lines of Horizontal Illumination

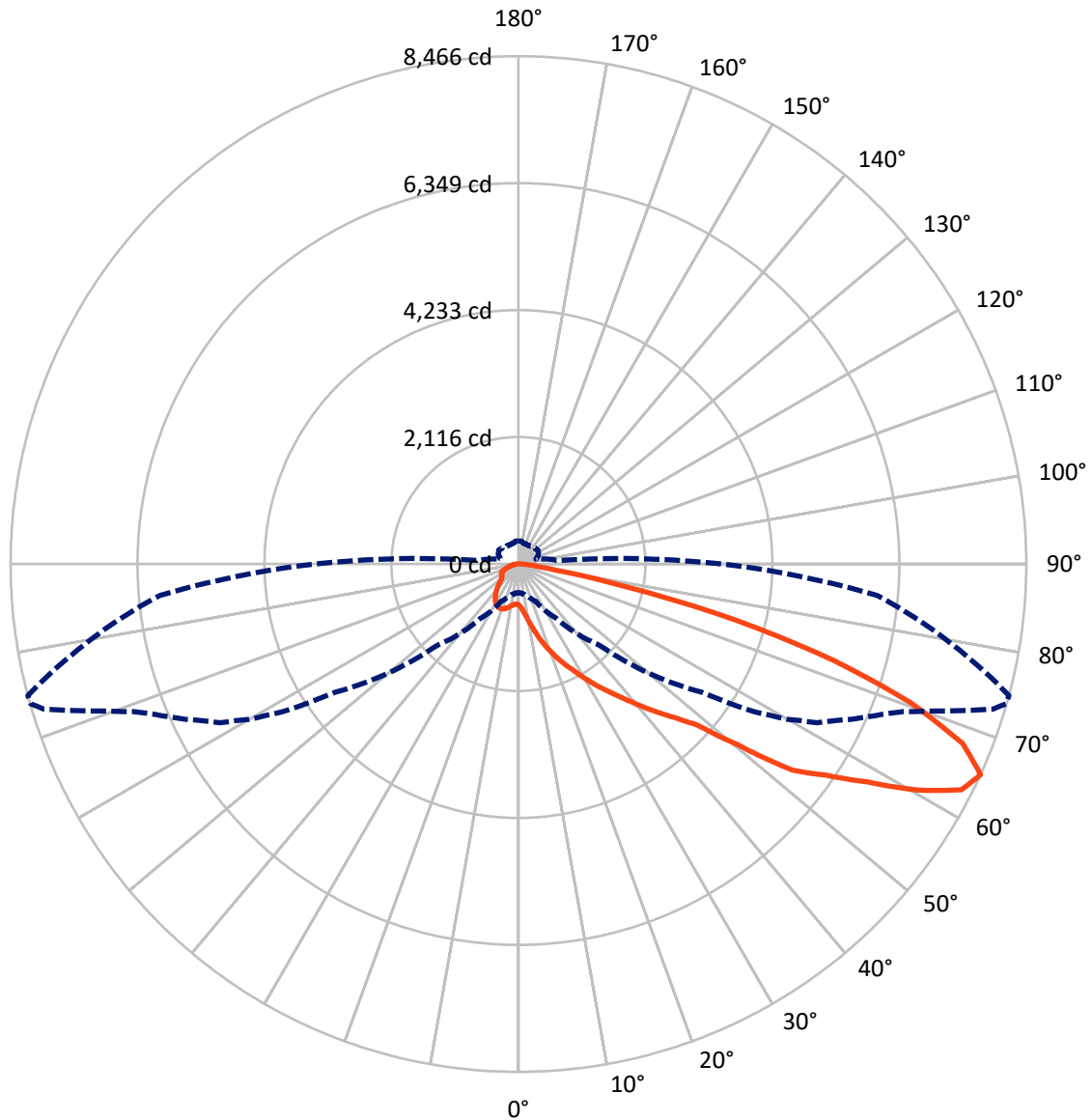
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 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	1289.7	0.0	1289.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	7075.3	0.0	7075.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8365.0	0.0	8365.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.0	1.0
10°-20°	328.3	3.9
20°-30°	673.6	8.1
30°-40°	1133.3	13.5
40°-50°	1565.9	18.7
50°-60°	1954.7	23.4
60°-70°	1759.0	21.0
70°-80°	737.4	8.8
80°-90°	128.8	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°	8365.0	100.0
0°-180°	8365.0	100.0



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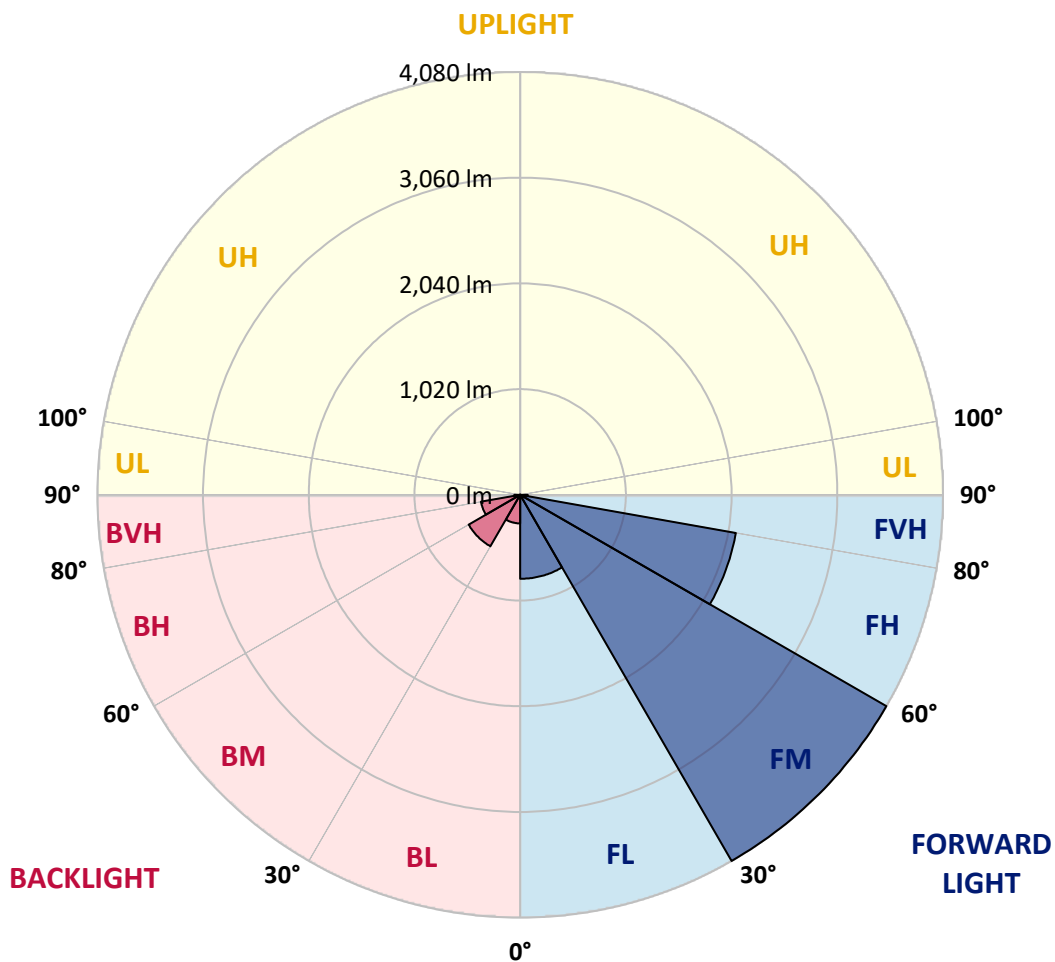
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.1	9.7			
FM	(30°-60°)	4079.8	48.8			
FH	(60°-80°)	2113.0	25.3			G2/5000
FVH	(80°-90°)	72.4	0.9			G1/100
BL	(0°-30°)	275.8	3.3	B1/500		
BM	(30°-60°)	574.1	6.9	B1/1000		
BH	(60°-80°)	383.4	4.6	B1/500		G1/500
BVH	(80°-90°)	56.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	863.1	853.6	856.0	840.2	820.8	795.4	767.3	766.9	767.3	764.5	754.3
5°	1196.9	1185.4	1181.1	1145.4	1093.2	1018.7	938.0	929.3	925.7	916.6	895.6
7.5°	1440.4	1434.1	1427.3	1400.4	1352.9	1269.8	1161.3	1142.7	1124.8	1120.5	1096.7
10°	1597.6	1596.0	1581.8	1574.6	1544.9	1472.9	1367.2	1349.3	1329.9	1323.2	1298.3
12.5°	1721.9	1721.5	1714.8	1716.8	1691.0	1638.8	1547.7	1531.5	1517.2	1496.6	1478.8
15°	1807.8	1808.2	1818.1	1829.2	1825.2	1790.0	1704.5	1697.4	1685.1	1670.8	1649.9
17.5°	1878.3	1880.3	1890.6	1910.8	1932.5	1929.8	1862.1	1856.1	1845.4	1826.0	1815.0
20°	2037.5	2045.0	2025.2	2025.2	2027.6	2038.3	2005.8	2001.0	1986.0	1975.7	1967.0
22.5°	2306.3	2315.0	2270.3	2224.7	2180.0	2147.5	2115.1	2121.0	2110.7	2103.6	2098.4
25°	2655.5	2662.3	2589.8	2513.0	2421.9	2303.1	2222.8	2219.2	2213.7	2209.3	2206.9
27.5°	2984.1	2986.9	2918.4	2806.0	2700.3	2529.6	2332.0	2327.7	2321.0	2312.6	2305.5
30°	3265.3	3264.5	3194.0	3086.7	2973.5	2784.6	2497.9	2484.5	2464.7	2442.1	2424.7
32.5°	3508.8	3507.6	3430.4	3319.1	3200.3	3037.2	2725.2	2697.5	2666.6	2622.7	2596.1
35°	3700.4	3699.6	3626.7	3510.7	3374.5	3275.2	2985.7	2951.7	2912.5	2853.5	2812.7
37.5°	3772.8	3772.8	3732.1	3652.9	3532.5	3464.4	3275.2	3234.0	3192.0	3125.1	3079.2
40°	3730.5	3731.3	3740.0	3725.3	3666.7	3614.5	3545.2	3520.6	3484.6	3424.4	3376.5
42.5°	3588.3	3592.7	3650.5	3721.4	3750.7	3742.4	3784.7	3773.6	3748.3	3702.0	3664.0
45°	3408.2	3421.6	3485.0	3618.8	3774.0	3852.8	3985.5	3986.6	3981.9	3957.0	3927.7
47.5°	3160.7	3179.7	3263.3	3444.2	3719.4	3960.1	4189.4	4200.1	4210.0	4193.7	4180.3
50°	2832.1	2854.7	2979.8	3219.7	3608.1	4071.4	4574.6	4622.9	4668.0	4662.5	4671.6
52.5°	2480.1	2506.6	2659.9	2927.1	3416.9	4097.1	4820.9	4899.7	4978.5	5043.0	5111.5
55°	2162.6	2148.3	2301.6	2583.1	3102.5	3981.1	5042.2	5137.2	5225.1	5304.3	5385.9
57.5°	1732.2	1755.6	1909.2	2187.5	2686.4	3653.7	5194.6	5333.6	5459.9	5591.0	5706.6
60°	1266.2	1289.6	1456.2	1738.9	2234.6	3157.2	5078.2	5288.9	5491.2	5691.9	5848.7
62.5°	764.5	782.0	928.9	1198.1	1723.1	2568.4	4559.6	4835.9	5133.7	5373.6	5613.9
65°	475.9	485.8	540.1	688.1	1106.6	1917.5	3725.3	4026.6	4347.3	4651.8	4901.6
67.5°	389.6	393.2	403.1	434.7	607.8	1250.4	2772.7	3039.6	3329.0	3623.6	3901.5
70°	350.4	348.0	348.0	350.0	389.6	672.3	1815.4	1989.2	2230.3	2486.5	2740.6
72.5°	316.4	314.0	309.6	303.7	317.9	410.2	938.4	1069.4	1243.2	1470.9	1714.4
75°	284.3	281.1	276.0	268.4	278.3	309.6	450.6	505.6	590.3	711.5	847.3
77.5°	251.0	247.1	242.3	236.8	249.4	240.7	264.1	283.9	316.4	355.2	406.2
80°	213.4	209.8	208.3	205.5	220.5	183.3	186.5	198.8	217.8	238.7	262.5
82.5°	167.1	167.1	173.4	174.6	191.2	131.8	139.4	150.1	160.0	171.0	182.1
85°	110.1	110.9	132.2	140.6	150.9	88.7	104.5	108.1	116.0	122.3	127.1
87.5°	34.4	37.2	80.8	89.5	86.7	50.3	64.1	65.7	71.3	75.6	79.6
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	754.3	749.5	745.1	744.7	741.6	737.2	738.8	732.1	732.5	728.9	725.0
5°	886.9	883.7	867.9	863.5	851.7	844.1	842.9	827.1	825.1	816.0	806.1
7.5°	1077.7	1067.4	1045.3	1034.6	1014.4	999.3	992.2	971.2	960.9	937.2	926.5
10°	1277.7	1264.6	1237.3	1222.2	1202.8	1178.7	1165.6	1135.1	1123.3	1101.5	1075.4
12.5°	1463.0	1449.9	1421.8	1410.3	1384.6	1358.8	1344.6	1310.1	1294.7	1259.9	1239.3
15°	1634.4	1621.3	1596.8	1584.9	1559.2	1538.2	1519.2	1485.1	1466.9	1434.5	1407.5
17.5°	1800.7	1786.8	1765.5	1754.8	1729.8	1708.4	1687.9	1655.8	1637.2	1604.7	1580.6
20°	1955.1	1944.8	1929.4	1915.1	1890.2	1870.8	1846.2	1818.5	1791.6	1767.8	1744.9
22.5°	2089.7	2085.8	2069.1	2062.8	2041.4	2024.8	2003.4	1976.1	1956.7	1926.6	1905.2
25°	2205.7	2204.6	2196.6	2194.7	2179.6	2163.8	2159.0	2136.5	2118.6	2092.1	2069.9
27.5°	2305.5	2306.7	2304.7	2310.3	2306.3	2299.2	2299.6	2292.1	2281.8	2259.6	2240.2
30°	2416.4	2410.0	2413.6	2421.5	2423.9	2424.7	2437.8	2442.1	2441.3	2426.7	2417.2
32.5°	2573.2	2558.1	2544.3	2543.1	2551.0	2554.2	2576.3	2587.8	2597.7	2601.3	2602.9
35°	2773.1	2743.0	2714.1	2698.7	2685.2	2688.8	2704.6	2723.2	2745.0	2760.0	2777.9
37.5°	3024.9	2988.1	2937.0	2900.6	2891.5	2871.7	2882.0	2896.6	2918.0	2941.4	2972.3
40°	3330.2	3274.4	3217.0	3168.6	3142.5	3106.1	3105.7	3102.9	3116.0	3137.8	3181.3
42.5°	3624.0	3574.5	3513.5	3462.8	3428.8	3380.1	3370.2	3344.4	3350.4	3369.4	3411.8
45°	3899.1	3858.4	3821.1	3762.5	3733.6	3681.0	3664.4	3633.9	3616.8	3625.6	3667.9
47.5°	4165.6	4139.5	4100.7	4062.7	4040.5	3993.4	3972.0	3950.2	3928.4	3927.7	3972.0
50°	4685.1	4671.2	4625.3	4585.7	4596.4	4538.6	4542.1	4483.5	4510.1	4513.2	4606.3
52.5°	5173.3	5221.6	5255.6	5297.2	5324.1	5329.3	5347.1	5373.6	5405.7	5469.0	5555.3
55°	5452.8	5513.4	5548.6	5580.3	5632.5	5643.6	5673.3	5708.6	5736.7	5807.9	5881.2
57.5°	5785.0	5897.4	5952.1	6002.3	6072.8	6099.7	6149.2	6187.6	6224.1	6308.4	6397.1
60°	5989.7	6126.7	6237.9	6317.5	6405.8	6469.1	6544.0	6604.2	6689.7	6790.6	6922.9
62.5°	5826.9	6028.1	6175.8	6312.4	6432.3	6553.5	6660.8	6773.2	6903.1	7055.9	7261.0
65°	5178.8	5383.5	5636.5	5778.2	5937.0	6123.9	6287.0	6469.1	6646.1	6868.6	7171.9
67.5°	4169.2	4407.1	4691.4	4834.3	5016.9	5225.5	5408.4	5631.0	5837.6	6107.3	6482.2
70°	3005.1	3312.8	3551.9	3701.2	3914.2	4129.2	4305.8	4564.7	4735.7	5012.1	5399.7
72.5°	1902.9	2145.6	2438.5	2626.6	2815.9	3033.6	3214.2	3437.5	3597.0	3848.9	4200.1
75°	1023.1	1202.1	1459.4	1638.0	1840.7	2026.8	2238.2	2387.9	2505.9	2705.0	2990.1
77.5°	479.5	588.4	718.6	856.0	993.4	1136.7	1276.1	1397.2	1447.9	1562.0	1730.2
80°	291.0	326.2	364.3	406.6	464.0	510.4	571.7	616.1	619.2	655.3	706.7
82.5°	194.4	207.5	219.0	229.6	244.3	255.8	268.8	284.3	290.6	298.9	315.6
85°	132.6	139.0	141.3	148.1	146.5	150.5	155.6	160.7	163.5	163.1	170.6
87.5°	81.6	84.7	86.3	87.9	86.7	85.1	87.5	90.3	91.1	88.7	89.5
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°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	725.7	722.2	718.6	716.2	715.5	694.5	685.4	679.4	666.8	656.5	648.1
5°	800.6	793.1	787.1	780.0	776.0	723.0	703.6	690.1	667.9	654.9	643.0
7.5°	920.9	900.0	887.7	873.8	861.9	766.1	734.1	713.1	682.2	664.8	651.3
10°	1057.5	1035.8	1016.4	995.0	976.4	823.5	776.8	744.4	703.6	681.0	663.2
12.5°	1210.0	1188.6	1164.0	1136.7	1113.0	896.4	831.5	785.1	729.3	699.2	674.3
15°	1390.1	1352.5	1322.8	1291.1	1263.4	983.5	895.2	831.1	756.6	715.8	682.6
17.5°	1557.6	1518.0	1477.6	1449.9	1417.8	1081.3	959.3	877.8	779.2	726.5	684.2
20°	1721.1	1678.0	1643.1	1605.9	1572.2	1182.7	1027.8	919.0	793.8	726.9	674.3
22.5°	1865.2	1838.3	1799.5	1759.1	1725.1	1284.0	1092.0	953.8	799.4	717.8	656.9
25°	2029.2	2000.6	1953.1	1919.1	1881.1	1387.3	1154.9	980.7	796.2	700.8	629.9
27.5°	2204.2	2172.5	2123.8	2088.1	2042.2	1494.6	1212.7	1000.1	784.3	673.1	593.9
30°	2386.7	2357.8	2309.9	2273.8	2227.5	1608.3	1277.3	1013.2	760.6	634.7	551.9
32.5°	2582.7	2558.5	2511.0	2473.4	2423.9	1731.4	1337.5	1017.2	724.6	589.1	507.6
35°	2768.8	2752.1	2712.1	2676.9	2625.4	1847.8	1401.2	1015.2	681.8	539.3	467.2
37.5°	2978.2	2968.3	2948.5	2903.8	2840.8	2005.8	1477.6	1006.9	629.5	489.8	436.3
40°	3201.5	3202.3	3180.9	3150.4	3091.8	2197.4	1568.7	990.6	572.5	446.2	408.2
42.5°	3437.9	3450.2	3439.9	3418.1	3361.9	2390.6	1677.6	970.8	517.1	403.9	380.5
45°	3708.7	3723.7	3739.6	3707.5	3652.9	2645.6	1820.9	945.1	457.3	368.6	361.5
47.5°	4021.1	4044.8	4059.1	4059.5	4004.9	2961.6	2053.7	929.6	404.2	344.9	352.4
50°	4680.3	4687.8	4721.5	4780.1	4738.1	3692.9	2460.3	920.1	368.2	330.2	345.6
52.5°	5630.2	5712.9	5771.1	5767.2	5710.1	4157.3	2684.4	871.1	346.8	324.7	342.5
55°	6017.0	6120.3	6228.0	6256.5	6212.2	4553.6	2896.2	822.0	336.5	328.6	343.7
57.5°	6532.5	6706.7	6854.4	6916.5	6852.4	5060.8	3175.0	796.2	333.4	339.3	351.2
60°	7134.7	7350.1	7544.1	7655.8	7655.8	5643.6	3464.0	785.5	329.0	355.2	363.9
62.5°	7521.5	7837.9	8130.9	8294.4	8289.6	6049.5	3592.3	749.1	319.1	366.2	381.3
65°	7523.1	7899.3	8272.6	8456.3	8465.8	5999.6	3380.5	661.6	300.9	367.8	398.7
67.5°	6896.0	7297.0	7732.2	7937.7	7985.2	5522.9	2926.3	544.0	271.2	352.0	405.0
70°	5824.2	6215.7	6660.0	6861.9	6946.2	4708.0	2357.0	419.3	233.2	317.1	392.0
72.5°	4588.5	4972.5	5281.7	5429.4	5495.1	3598.6	1716.4	316.7	191.2	267.3	356.7
75°	3248.6	3536.9	3701.2	3734.0	3744.3	2169.3	1042.9	235.6	157.6	207.9	301.3
77.5°	1833.6	1957.1	1943.6	1958.3	1836.3	837.4	454.1	168.7	129.9	158.0	233.6
80°	715.8	738.0	693.3	679.4	623.2	311.6	200.3	117.6	103.7	119.6	163.5
82.5°	315.6	325.9	316.4	318.7	304.9	160.7	120.0	85.1	79.2	87.5	108.5
85°	173.8	177.0	176.2	181.3	173.8	64.1	57.0	52.3	55.4	59.4	69.7
87.5°	84.7	85.5	82.7	87.1	84.3	32.5	28.1	29.7	32.5	33.3	33.3
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°	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	642.2	639.0	639.4	638.6	637.1	637.1
5°	636.7	633.5	633.5	632.7	630.7	631.1
7.5°	642.2	637.1	635.1	632.3	629.5	629.5
10°	648.5	639.4	633.9	629.1	625.6	625.6
12.5°	653.3	639.0	629.9	623.6	620.0	620.0
15°	654.9	636.3	623.6	616.1	612.9	612.5
17.5°	649.7	625.6	610.1	601.4	597.5	596.3
20°	633.9	606.2	587.6	577.7	572.1	570.1
22.5°	610.1	578.5	556.7	546.4	539.3	538.1
25°	576.9	542.8	521.4	511.5	507.6	506.4
27.5°	538.1	506.4	488.2	481.8	478.3	477.9
30°	501.3	474.3	460.9	456.1	451.8	451.0
32.5°	466.8	449.8	444.6	437.9	427.6	426.4
35°	442.3	440.7	437.1	422.1	409.4	405.8
37.5°	427.2	441.9	423.6	394.0	384.8	384.1
40°	418.5	429.6	398.3	388.0	388.8	388.0
42.5°	398.7	410.2	399.1	394.3	397.5	398.3
45°	378.9	391.6	405.0	401.9	409.4	409.4
47.5°	367.8	386.8	404.6	404.6	415.7	419.7
50°	355.2	382.9	398.3	403.9	412.6	409.4
52.5°	354.4	376.1	389.2	399.1	403.1	399.5
55°	355.5	370.6	380.1	391.2	395.9	396.3
57.5°	357.1	367.4	373.8	378.9	393.2	393.2
60°	361.1	364.7	368.2	371.0	389.6	390.0
62.5°	367.4	361.9	361.1	363.9	387.6	386.0
65°	377.3	357.9	352.0	354.8	385.6	380.9
67.5°	390.8	352.0	340.5	342.5	384.1	373.8
70°	403.1	342.5	326.2	324.3	369.0	350.8
72.5°	404.2	331.4	306.5	300.5	320.7	303.3
75°	384.5	323.9	284.7	267.3	264.9	262.5
77.5°	346.4	319.5	259.3	232.0	227.3	228.8
80°	289.8	303.3	228.8	196.4	222.1	219.3
82.5°	216.6	267.7	194.4	173.8	173.4	153.2
85°	120.4	208.7	158.4	130.3	90.7	87.9
87.5°	33.7	116.0	110.9	73.6	50.3	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)