

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: P269103

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269103  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 8906 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

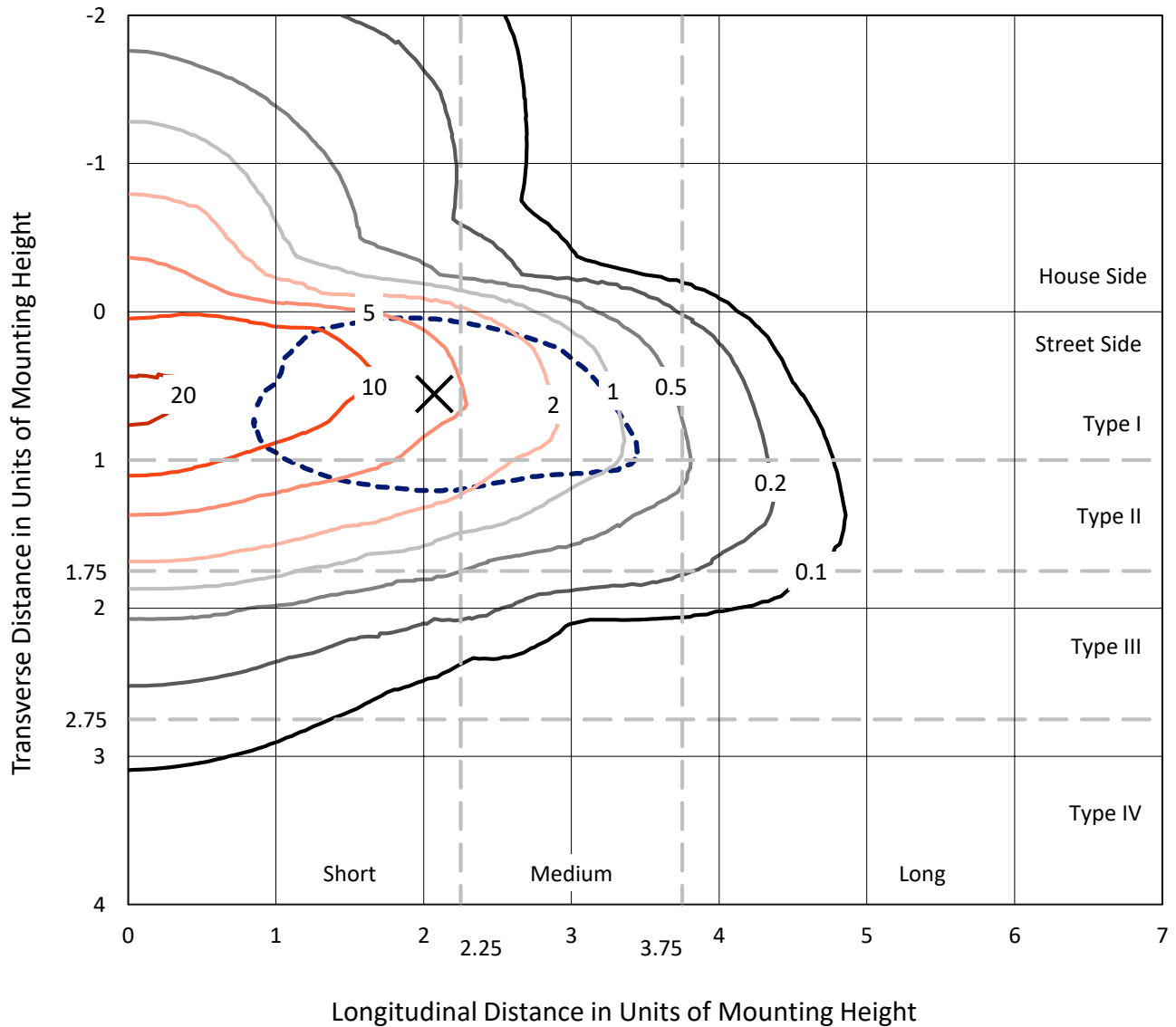


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### Iso-Footcandle Lines of Horizontal Illumination

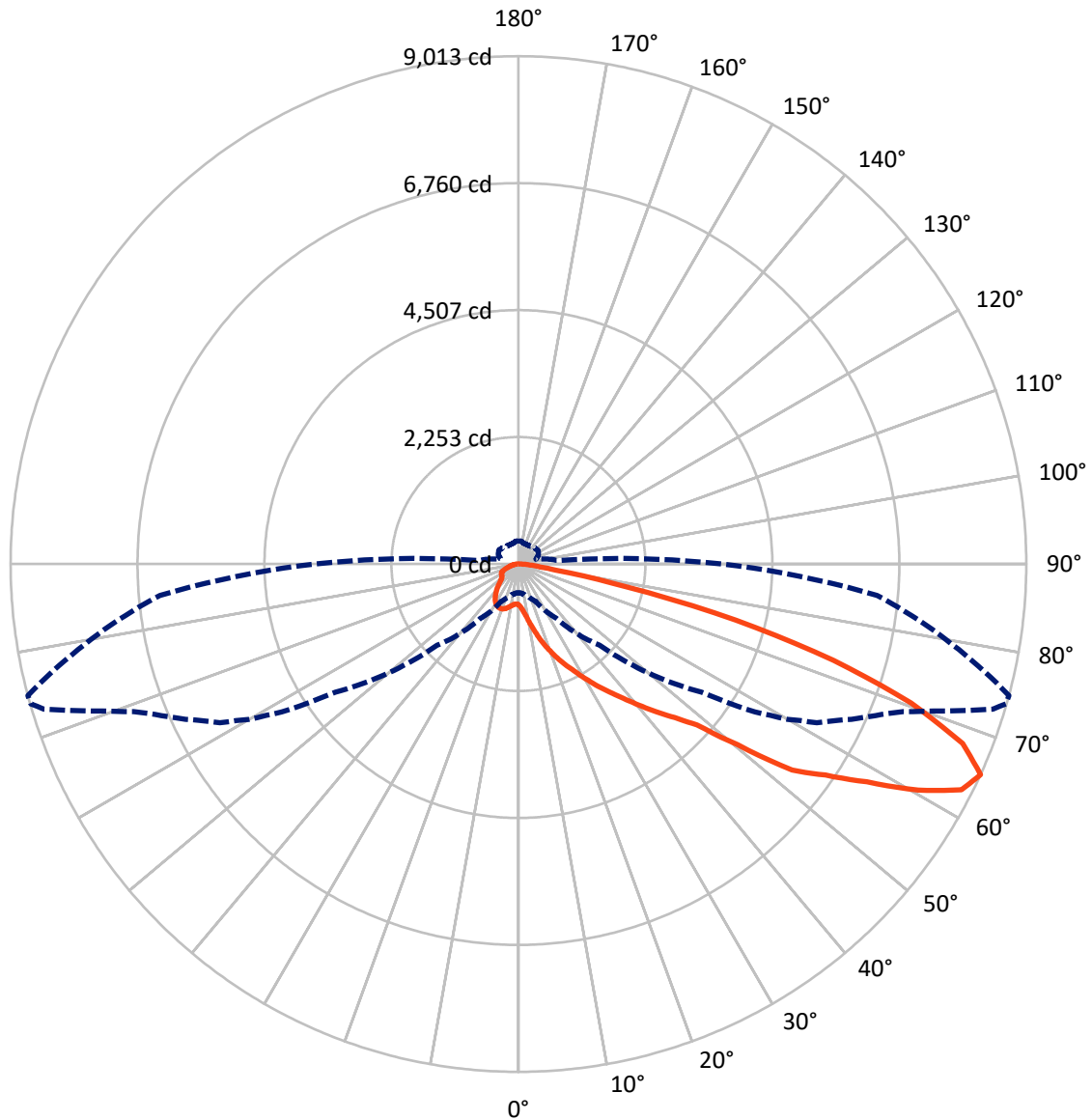
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 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	1373.1	0.0	1373.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	7532.9	0.0	7532.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8906.0	0.0	8906.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	349.5	3.9
20°-30°	717.2	8.1
30°-40°	1206.6	13.5
40°-50°	1667.1	18.7
50°-60°	2081.1	23.4
60°-70°	1872.8	21.0
70°-80°	785.1	8.8
80°-90°	137.1	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°	8906.0	100.0
0°-180°	8906.0	100.0



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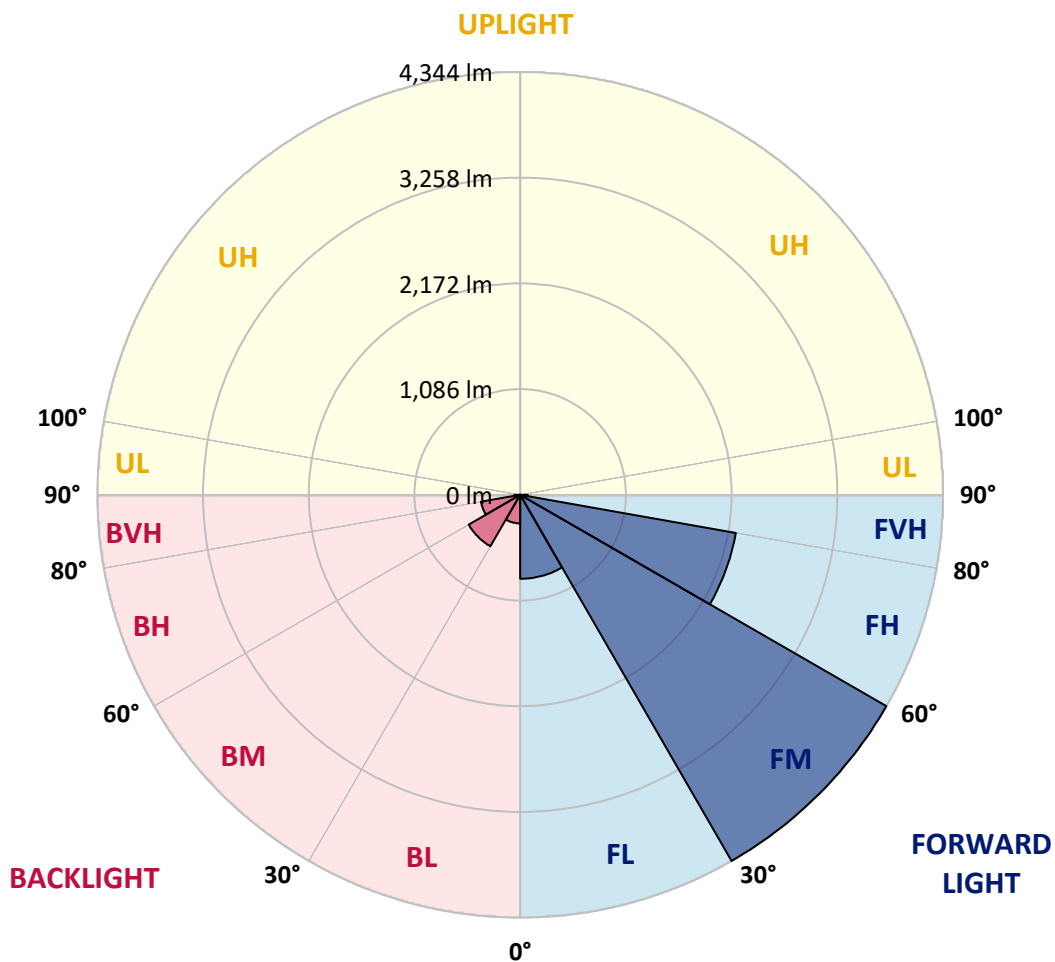
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.5	9.7			
FM (30°-60°)	4343.7	48.8			
FH (60°-80°)	2249.6	25.3			G2/5000
FVH (80°-90°)	77.1	0.9			G1/100
BL (0°-30°)	293.6	3.3	B1/500		
BM (30°-60°)	611.2	6.9	B1/1000		
BH (60°-80°)	408.2	4.6	B1/500		G1/500
BVH (80°-90°)	60.1	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°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	919.0	908.8	911.4	894.5	873.8	846.8	817.0	816.5	817.0	814.0	803.1
5°	1274.3	1262.1	1257.4	1219.4	1163.8	1084.7	998.6	989.4	985.5	975.9	953.6
7.5°	1533.5	1526.8	1519.7	1490.9	1440.4	1351.9	1236.3	1216.6	1197.6	1192.9	1167.6
10°	1700.9	1699.2	1684.1	1676.4	1644.8	1568.1	1455.6	1436.6	1416.0	1408.8	1382.2
12.5°	1833.4	1832.8	1825.6	1827.8	1800.5	1744.8	1647.9	1630.6	1615.3	1593.5	1574.4
15°	1924.8	1925.2	1935.7	1947.4	1943.4	1905.8	1814.8	1807.1	1794.1	1779.0	1756.5
17.5°	1999.7	2002.0	2012.8	2034.3	2057.5	2054.6	1982.5	1976.2	1964.9	1944.1	1932.3
20°	2169.2	2177.2	2156.1	2156.1	2158.6	2170.0	2135.5	2130.4	2114.4	2103.6	2094.2
22.5°	2455.4	2464.7	2417.1	2368.7	2321.0	2286.5	2251.8	2258.2	2247.2	2239.7	2234.2
25°	2827.2	2834.4	2757.3	2675.5	2578.6	2452.1	2366.6	2362.7	2356.9	2352.2	2349.6
27.5°	3177.1	3180.1	3107.1	2987.5	2874.8	2693.2	2482.8	2478.2	2471.1	2462.3	2454.6
30°	3476.4	3475.6	3400.5	3286.3	3165.7	2964.6	2659.5	2645.1	2624.0	2600.1	2581.5
32.5°	3735.6	3734.4	3652.1	3533.8	3407.4	3233.5	2901.4	2871.9	2839.1	2792.2	2764.1
35°	3939.6	3938.9	3861.3	3737.8	3592.9	3487.0	3178.8	3142.6	3100.8	3038.0	2994.6
37.5°	4016.9	4016.9	3973.5	3889.1	3760.9	3688.4	3487.0	3443.2	3398.5	3327.2	3278.4
40°	3971.8	3972.6	3981.8	3966.2	3903.9	3848.2	3774.5	3748.3	3710.0	3646.0	3594.8
42.5°	3820.4	3825.1	3886.5	3962.1	3993.2	3984.3	4029.4	4017.7	3990.7	3941.4	3900.9
45°	3628.7	3642.9	3710.4	3852.8	4018.1	4102.0	4243.2	4244.4	4239.5	4212.8	4181.7
47.5°	3365.1	3385.4	3474.4	3666.9	3959.9	4216.3	4460.3	4471.7	4482.3	4464.9	4450.7
50°	3015.3	3039.2	3172.5	3427.9	3841.5	4334.7	4870.4	4921.9	4970.0	4964.0	4973.7
52.5°	2640.5	2668.8	2831.8	3116.4	3637.9	4362.1	5132.6	5216.5	5300.4	5369.1	5442.0
55°	2302.4	2287.3	2450.3	2750.2	3303.2	4238.6	5368.4	5469.4	5563.1	5647.4	5734.2
57.5°	1844.2	1869.2	2032.7	2328.9	2860.2	3889.9	5530.5	5678.5	5813.0	5952.4	6075.6
60°	1348.0	1373.0	1550.5	1851.3	2379.2	3361.4	5406.7	5630.8	5846.3	6060.1	6227.0
62.5°	814.0	832.5	988.9	1275.6	1834.5	2734.5	4854.4	5148.6	5465.6	5721.1	5977.1
65°	506.6	517.2	574.9	732.7	1178.1	2041.5	3966.2	4287.0	4628.4	4952.6	5218.7
67.5°	414.7	418.6	429.1	462.8	647.0	1331.2	2952.0	3236.1	3544.4	3858.0	4153.9
70°	373.1	370.6	370.6	372.6	414.7	715.8	1932.8	2117.8	2374.5	2647.2	2917.9
72.5°	336.9	334.3	329.7	323.3	338.5	436.8	999.0	1138.6	1323.7	1566.0	1825.3
75°	302.6	299.2	293.8	285.8	296.4	329.7	479.8	538.4	628.5	757.5	902.1
77.5°	267.2	263.1	258.0	252.1	265.5	256.2	281.2	302.2	336.9	378.1	432.5
80°	227.2	223.4	221.7	218.7	234.7	195.2	198.5	211.6	231.9	254.2	279.6
82.5°	177.9	177.9	184.6	185.9	203.6	140.3	148.4	159.8	170.3	182.0	193.9
85°	117.1	118.0	140.8	149.7	160.5	94.4	111.3	115.2	123.4	130.3	135.4
87.5°	36.7	39.6	86.0	95.3	92.3	53.4	68.4	70.0	75.8	80.5	84.7
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°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	803.1	798.0	793.4	792.9	789.5	784.8	786.6	779.4	779.9	776.0	771.9
5°	944.3	940.9	923.9	919.3	906.7	898.8	897.4	880.6	878.5	868.8	858.2
7.5°	1147.5	1136.4	1112.9	1101.5	1080.0	1064.0	1056.3	1033.9	1023.1	997.7	986.3
10°	1360.4	1346.4	1317.4	1301.3	1280.7	1254.9	1241.0	1208.6	1196.0	1172.6	1144.9
12.5°	1557.7	1543.6	1513.7	1501.4	1474.1	1446.7	1431.5	1394.9	1378.4	1341.3	1319.4
15°	1740.0	1726.3	1700.0	1687.5	1660.0	1637.7	1617.5	1581.1	1561.9	1527.2	1498.6
17.5°	1917.2	1902.4	1879.7	1868.3	1841.6	1819.0	1797.0	1762.8	1743.0	1708.4	1682.7
20°	2081.6	2070.7	2054.2	2039.0	2012.5	1991.7	1965.6	1936.1	1907.5	1882.2	1857.8
22.5°	2224.9	2220.7	2203.0	2196.1	2173.4	2155.8	2132.9	2103.9	2083.2	2051.2	2028.5
25°	2348.3	2347.1	2338.6	2336.6	2320.5	2303.8	2298.7	2274.6	2255.6	2227.3	2203.8
27.5°	2454.6	2455.8	2453.8	2459.6	2455.4	2447.9	2448.3	2440.2	2429.3	2405.8	2385.1
30°	2572.7	2565.9	2569.7	2578.1	2580.7	2581.5	2595.5	2600.1	2599.2	2583.6	2573.5
32.5°	2739.7	2723.5	2708.7	2707.5	2715.9	2719.3	2743.0	2755.2	2765.7	2769.6	2771.2
35°	2952.5	2920.4	2889.7	2873.1	2858.9	2862.7	2879.5	2899.3	2922.5	2938.5	2957.5
37.5°	3220.6	3181.3	3127.0	3088.3	3078.5	3057.4	3068.4	3084.1	3106.7	3131.6	3164.5
40°	3545.5	3486.1	3425.0	3373.6	3345.7	3307.0	3306.5	3303.5	3317.5	3340.6	3387.1
42.5°	3858.3	3805.6	3740.7	3686.7	3650.5	3598.7	3588.1	3560.7	3567.1	3587.3	3632.3
45°	4151.2	4107.9	4068.2	4005.9	3975.1	3919.0	3901.2	3868.9	3850.8	3859.9	3905.1
47.5°	4435.0	4407.2	4365.9	4325.3	4301.9	4251.6	4229.0	4205.7	4182.5	4181.7	4229.0
50°	4988.1	4973.2	4924.4	4882.3	4893.6	4832.2	4835.8	4773.6	4801.7	4805.2	4904.1
52.5°	5507.8	5559.3	5595.5	5639.7	5668.5	5673.9	5692.9	5721.1	5755.3	5822.8	5914.6
55°	5805.4	5870.0	5907.4	5941.1	5996.7	6008.7	6040.3	6077.8	6107.7	6183.6	6261.5
57.5°	6159.0	6278.9	6337.0	6390.5	6465.6	6494.1	6546.8	6587.8	6626.5	6716.4	6810.8
60°	6377.0	6522.9	6641.3	6726.1	6820.0	6887.6	6967.2	7031.3	7122.3	7229.7	7370.7
62.5°	6203.8	6417.9	6575.1	6720.6	6848.3	6977.2	7091.5	7211.2	7349.6	7512.3	7730.5
65°	5513.6	5731.6	6000.9	6152.0	6321.0	6519.9	6693.6	6887.6	7075.9	7312.8	7635.8
67.5°	4438.7	4692.1	4994.8	5147.0	5341.3	5563.5	5758.1	5995.1	6215.2	6502.2	6901.4
70°	3199.5	3527.0	3781.7	3940.5	4167.2	4396.2	4584.2	4859.9	5041.9	5336.2	5749.0
72.5°	2025.9	2284.3	2596.2	2796.5	2998.0	3229.9	3422.1	3659.8	3829.7	4097.8	4471.7
75°	1089.3	1279.7	1553.8	1743.9	1959.7	2157.9	2382.9	2542.4	2667.8	2880.0	3183.5
77.5°	510.4	626.4	765.0	911.4	1057.7	1210.2	1358.5	1487.7	1541.5	1662.9	1842.2
80°	309.8	347.4	387.8	433.0	494.1	543.4	608.7	655.9	659.3	697.7	752.4
82.5°	207.0	221.0	233.1	244.5	260.1	272.4	286.2	302.6	309.3	318.3	336.0
85°	141.3	148.0	150.5	157.7	155.9	160.2	165.6	171.1	174.1	173.7	181.6
87.5°	86.9	90.2	91.8	93.6	92.3	90.5	93.2	96.1	96.9	94.4	95.3
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	772.7	768.9	765.0	762.5	761.8	739.3	729.7	723.3	709.9	698.9	690.1
5°	852.3	844.3	837.9	830.5	826.3	769.8	749.0	734.8	711.2	697.3	684.6
7.5°	980.5	958.1	945.0	930.4	917.7	815.8	781.5	759.2	726.3	707.8	693.4
10°	1125.9	1102.7	1082.1	1059.3	1039.5	876.7	827.1	792.5	749.0	725.0	706.1
12.5°	1288.2	1265.4	1239.3	1210.2	1185.0	954.4	885.2	836.0	776.5	744.4	717.8
15°	1480.0	1440.0	1408.4	1374.6	1345.1	1047.2	953.1	884.8	805.6	762.1	726.6
17.5°	1658.4	1616.2	1573.2	1543.6	1509.5	1151.2	1021.5	934.5	829.6	773.5	728.4
20°	1832.5	1786.5	1749.4	1709.7	1673.9	1259.2	1094.3	978.3	845.1	773.9	717.8
22.5°	1985.9	1957.1	1915.8	1872.8	1836.7	1367.0	1162.5	1015.4	851.1	764.3	699.3
25°	2160.3	2130.1	2079.4	2043.1	2002.7	1477.1	1229.6	1044.1	847.7	746.1	670.7
27.5°	2346.7	2313.0	2261.2	2223.1	2174.3	1591.3	1291.1	1064.9	835.1	716.6	632.2
30°	2541.0	2510.3	2459.3	2420.9	2371.5	1712.3	1359.9	1078.8	809.8	675.7	587.6
32.5°	2749.7	2724.0	2673.4	2633.3	2580.7	1843.4	1424.0	1082.9	771.5	627.2	540.4
35°	2947.8	2930.1	2887.5	2850.1	2795.3	1967.3	1491.8	1080.8	725.9	574.1	497.4
37.5°	3170.7	3160.2	3139.1	3091.5	3024.6	2135.5	1573.2	1071.9	670.2	521.5	464.6
40°	3408.6	3409.3	3386.6	3354.2	3291.7	2339.5	1670.0	1054.7	609.5	475.1	434.6
42.5°	3660.2	3673.3	3662.3	3639.2	3579.2	2545.3	1786.1	1033.6	550.5	430.0	405.0
45°	3948.5	3964.6	3981.4	3947.3	3889.1	2816.7	1938.6	1006.2	486.9	392.5	384.8
47.5°	4281.1	4306.5	4321.6	4322.0	4263.9	3153.1	2186.6	989.8	430.4	367.1	375.1
50°	4983.0	4991.1	5026.8	5089.2	5044.5	3931.7	2619.5	979.6	392.0	351.5	367.9
52.5°	5994.3	6082.3	6144.3	6140.2	6079.4	4426.2	2858.0	927.4	369.3	345.7	364.6
55°	6406.2	6516.1	6630.7	6661.1	6614.0	4848.2	3083.5	875.0	358.3	349.9	365.9
57.5°	6954.9	7140.4	7297.7	7363.9	7295.6	5388.2	3380.3	847.7	354.9	361.3	374.0
60°	7596.1	7825.5	8031.9	8150.9	8150.9	6008.7	3688.0	836.3	350.2	378.1	387.3
62.5°	8007.9	8344.7	8656.6	8830.8	8825.8	6440.7	3824.7	797.5	339.7	390.0	405.9
65°	8009.6	8410.1	8807.6	9003.3	9013.4	6387.6	3599.1	704.5	320.3	391.7	424.4
67.5°	7341.8	7768.9	8232.2	8451.0	8501.6	5880.0	3115.6	579.1	288.7	374.8	431.2
70°	6200.8	6617.8	7090.7	7305.6	7395.4	5012.5	2509.4	446.4	248.3	337.7	417.4
72.5°	4885.3	5294.2	5623.3	5780.6	5850.5	3831.4	1827.3	337.3	203.6	284.6	379.9
75°	3458.7	3765.5	3940.5	3975.4	3986.5	2309.6	1110.3	250.7	167.8	221.3	320.8
77.5°	1952.1	2083.7	2069.3	2085.0	1955.2	891.6	483.5	179.7	138.2	168.3	248.7
80°	762.1	785.7	738.0	723.3	663.5	331.7	213.3	125.3	110.4	127.3	174.1
82.5°	336.0	346.9	336.9	339.3	324.6	171.1	127.6	90.5	84.4	93.2	115.5
85°	185.1	188.5	187.6	193.0	185.1	68.4	60.6	55.7	59.0	63.2	74.2
87.5°	90.2	91.1	88.2	92.7	89.8	34.6	30.0	31.6	34.6	35.5	35.5
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):**

	135°	145°	155°	165°	175°	180°
0°	723.8	723.8	723.8	723.8	723.8	723.8
2.5°	683.7	680.3	680.7	679.9	678.3	678.3
5°	677.9	674.4	674.4	673.5	671.6	671.9
7.5°	683.7	678.3	676.2	673.2	670.2	670.2
10°	690.4	680.7	674.8	669.9	666.1	666.1
12.5°	695.6	680.3	670.7	663.8	660.2	660.2
15°	697.3	677.4	663.8	655.9	652.6	652.1
17.5°	691.8	666.1	649.6	640.3	636.1	634.8
20°	674.8	645.4	625.6	615.0	609.1	607.1
22.5°	649.6	615.9	592.7	581.7	574.1	572.8
25°	614.3	577.9	555.2	544.6	540.4	539.2
27.5°	572.8	539.2	519.8	513.0	509.2	508.8
30°	533.7	504.9	490.7	485.7	481.0	480.1
32.5°	497.0	478.8	473.3	466.2	455.4	454.1
35°	470.8	469.2	465.4	449.3	435.9	432.1
37.5°	454.8	470.4	451.0	419.4	409.7	408.9
40°	445.6	457.3	424.1	413.1	413.9	413.1
42.5°	424.4	436.8	424.9	419.9	423.2	424.1
45°	403.3	417.0	431.2	427.9	435.9	435.9
47.5°	391.7	411.9	430.7	430.7	442.7	446.8
50°	378.1	407.7	424.1	430.0	439.2	435.9
52.5°	377.3	400.5	414.4	424.9	429.1	425.3
55°	378.5	394.5	404.6	416.5	421.6	421.9
57.5°	380.3	391.2	397.9	403.3	418.6	418.6
60°	384.5	388.2	392.0	395.0	414.7	415.1
62.5°	391.2	385.4	384.5	387.3	412.7	411.1
65°	401.7	381.2	374.8	377.6	410.5	405.6
67.5°	416.1	374.8	362.6	364.6	408.9	397.9
70°	429.1	364.6	347.4	345.3	392.9	373.4
72.5°	430.4	352.9	326.3	319.9	341.4	322.9
75°	409.3	344.8	303.1	284.6	282.0	279.6
77.5°	368.8	340.2	276.0	247.0	242.0	243.6
80°	308.6	322.9	243.6	209.0	236.4	233.5
82.5°	230.5	284.9	207.0	185.1	184.6	163.1
85°	128.2	222.2	168.6	138.7	96.6	93.6
87.5°	35.8	123.4	118.0	78.4	53.4	55.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)