

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: P269182

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269182  
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-03-LED-E1-T2R-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10837.5 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 96  
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

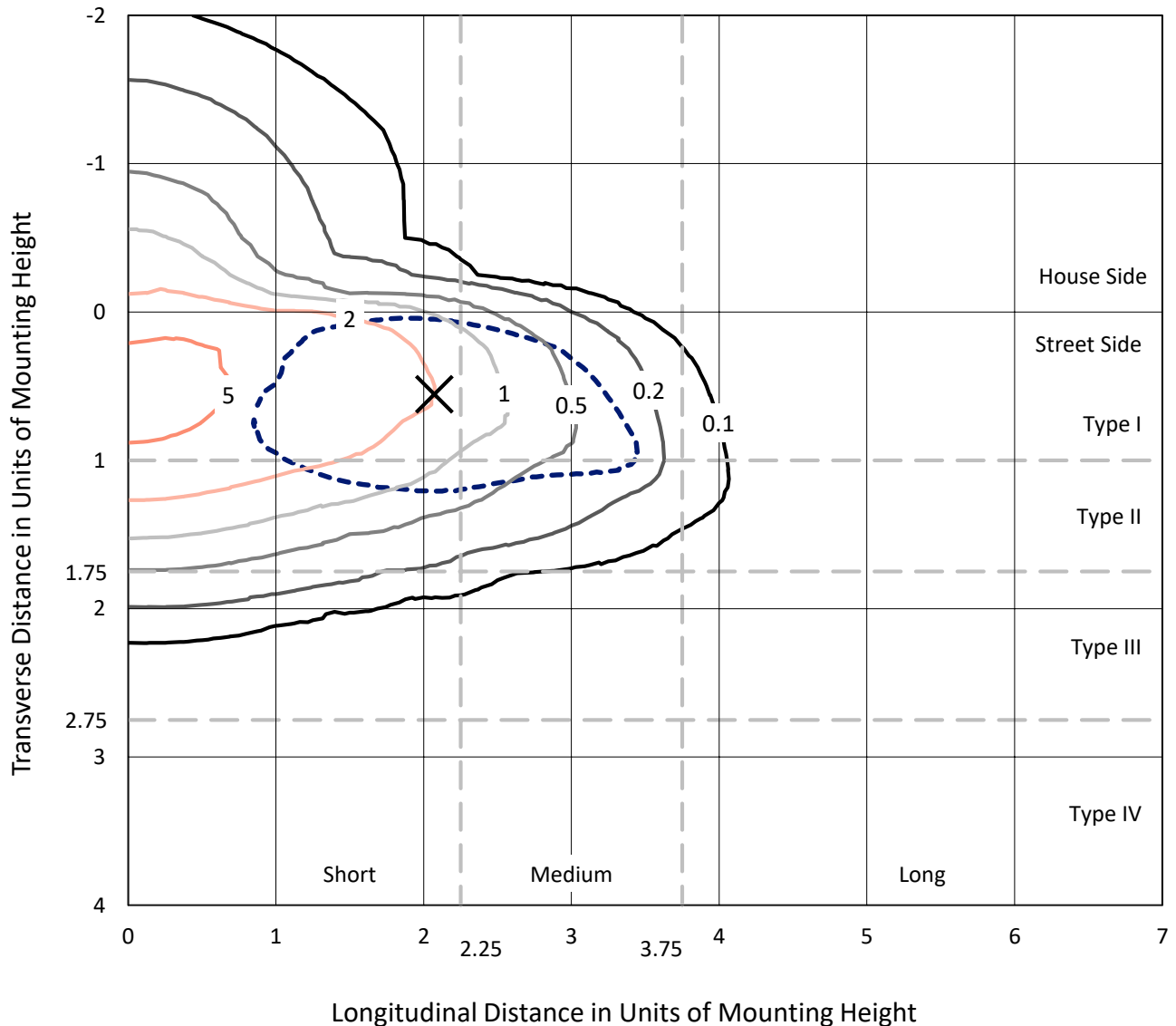


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### Iso-Footcandle Lines of Horizontal Illumination

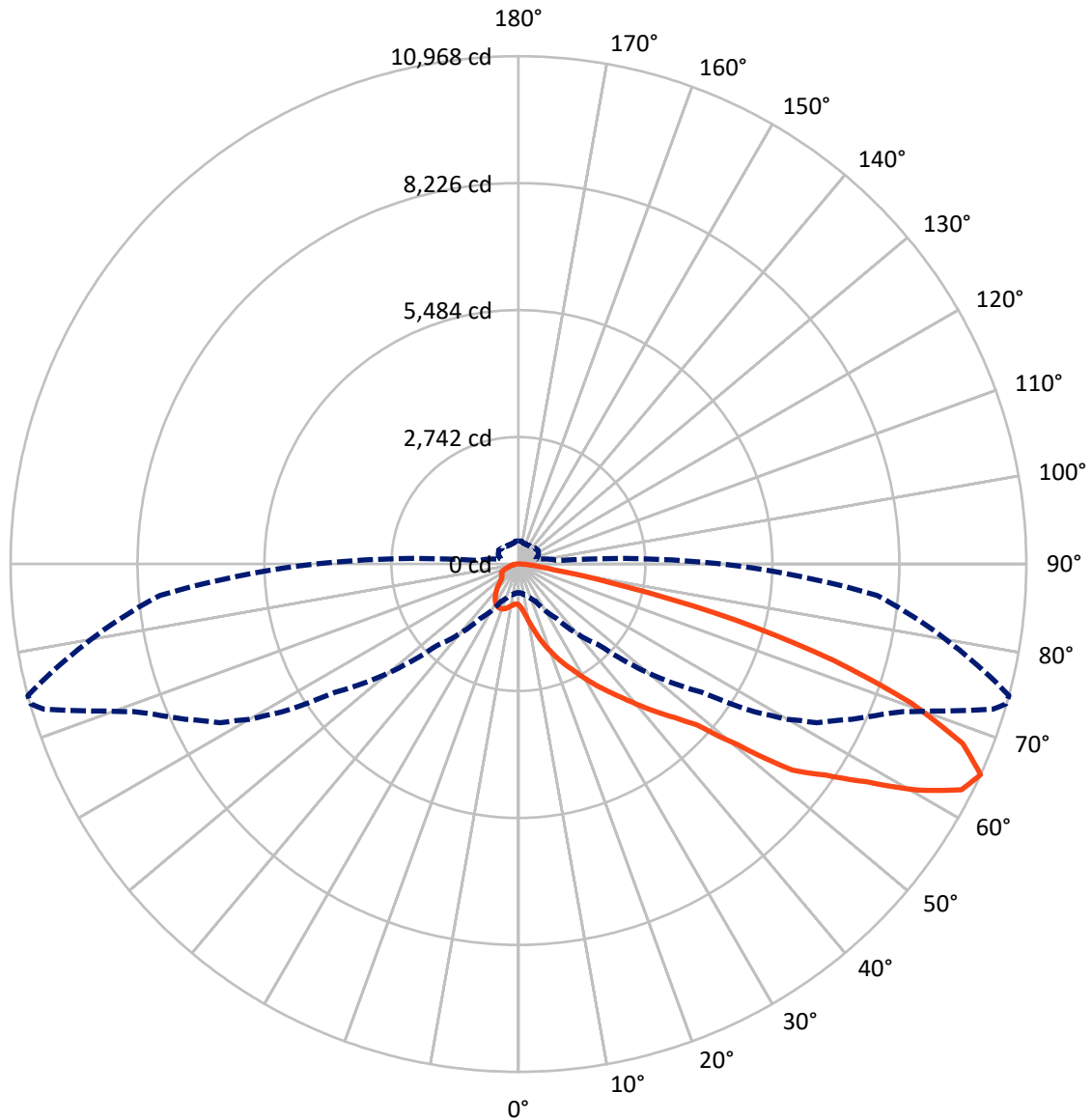
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	1670.9	0.0	1670.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	9166.6	0.0	9166.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	10837.5	0.0	10837.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	1.0
10°-20°	425.4	3.9
20°-30°	872.7	8.1
30°-40°	1468.3	13.5
40°-50°	2028.7	18.7
50°-60°	2532.5	23.4
60°-70°	2278.9	21.0
70°-80°	955.3	8.8
80°-90°	166.9	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°	10837.5	100.0
0°-180°	10837.5	100.0

**Coefficient of Utilization**



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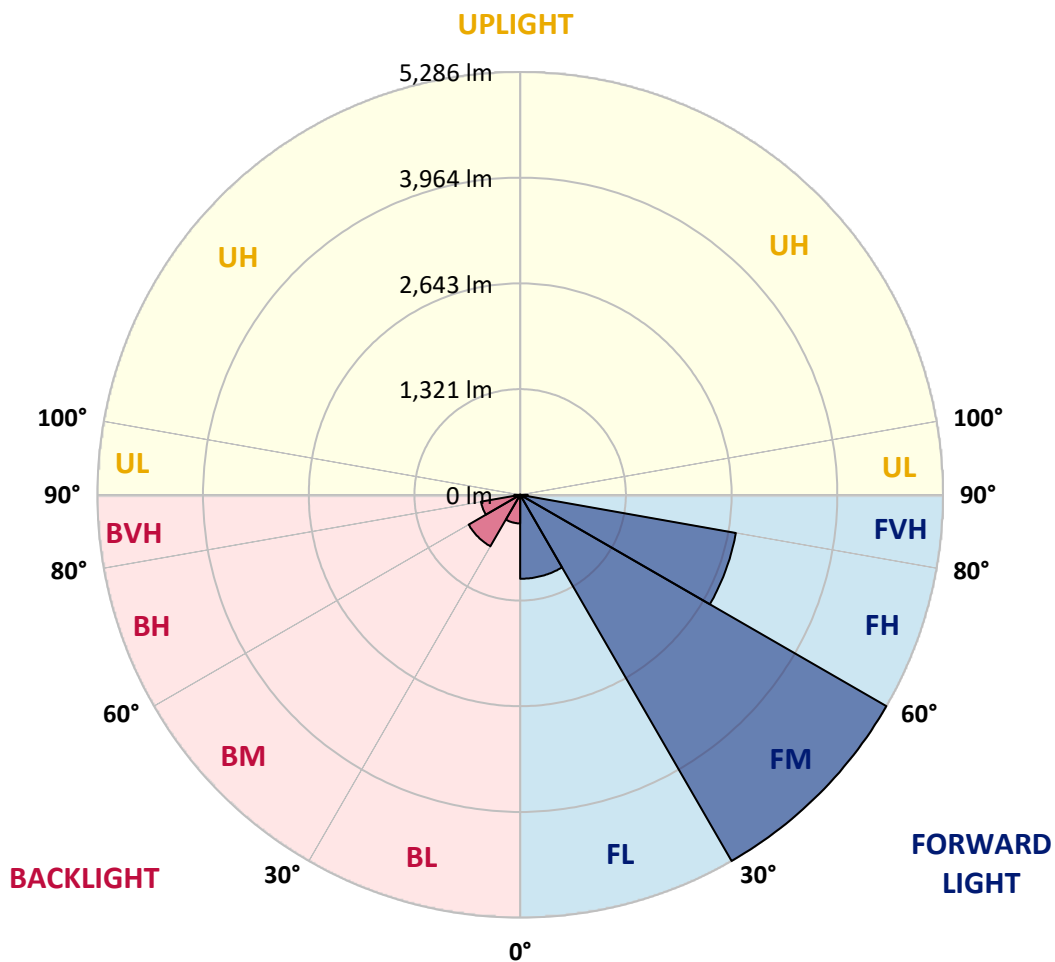
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.6	9.7			
FM (30°-60°)	5285.7	48.8			
FH (60°-80°)	2737.5	25.3			G2/5000
FVH (80°-90°)	93.8	0.9			G1/100
BL (0°-30°)	357.3	3.3	B1/500		
BM (30°-60°)	743.7	6.9	B1/1000		
BH (60°-80°)	496.7	4.6	B1/500		G1/500
BVH (80°-90°)	73.1	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°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	1118.3	1106.0	1109.0	1088.4	1063.4	1030.5	994.2	993.6	994.2	990.6	977.1
5°	1550.7	1535.8	1530.2	1484.0	1416.3	1319.9	1215.1	1203.9	1199.2	1187.5	1160.3
7.5°	1866.1	1858.0	1849.3	1814.3	1752.9	1645.1	1504.5	1480.3	1457.3	1451.8	1420.8
10°	2069.9	2067.8	2049.3	2040.1	2001.6	1908.2	1771.3	1748.2	1722.9	1714.3	1681.9
12.5°	2230.9	2230.3	2221.7	2224.3	2190.8	2123.1	2005.1	1984.1	1965.8	1939.0	1915.9
15°	2342.2	2342.7	2355.5	2369.9	2364.8	2319.2	2208.4	2199.1	2183.2	2164.6	2137.4
17.5°	2433.5	2436.1	2449.4	2475.5	2503.8	2500.2	2412.5	2404.8	2390.8	2365.7	2351.5
20°	2639.7	2649.5	2623.8	2623.8	2626.9	2640.7	2598.6	2592.5	2573.0	2559.7	2548.4
22.5°	2988.0	2999.4	2941.3	2882.3	2824.5	2782.3	2740.2	2747.9	2734.6	2725.4	2718.7
25°	3440.4	3449.1	3355.3	3255.7	3137.8	2983.9	2879.7	2875.1	2868.0	2862.3	2859.2
27.5°	3866.1	3869.8	3781.1	3635.4	3498.4	3277.3	3021.4	3015.7	3006.9	2996.1	2987.0
30°	4230.4	4229.4	4138.0	3999.1	3852.3	3607.7	3236.2	3218.8	3193.1	3163.9	3141.5
32.5°	4545.9	4544.3	4444.4	4300.1	4146.2	3934.9	3530.7	3494.8	3454.8	3397.8	3363.6
35°	4794.2	4793.1	4698.8	4548.5	4372.1	4243.2	3868.2	3824.2	3773.3	3697.0	3644.1
37.5°	4887.9	4887.9	4835.1	4732.6	4576.7	4488.4	4243.2	4189.9	4135.4	4048.8	3989.4
40°	4833.2	4834.1	4845.5	4826.5	4750.5	4682.9	4593.0	4561.2	4514.6	4436.5	4374.6
42.5°	4649.0	4654.6	4729.4	4821.4	4859.3	4848.5	4903.4	4889.0	4856.1	4796.2	4747.0
45°	4415.6	4433.0	4515.2	4688.4	4889.6	4991.6	5163.5	5165.1	5158.8	5126.5	5088.5
47.5°	4095.0	4119.5	4227.9	4462.2	4818.8	5130.7	5427.6	5441.6	5454.2	5433.3	5415.8
50°	3669.1	3698.4	3860.6	4171.4	4674.6	5274.8	5926.7	5989.4	6047.7	6040.7	6052.4
52.5°	3213.1	3247.6	3446.1	3792.4	4426.8	5308.2	6245.8	6348.0	6450.0	6533.6	6622.3
55°	2801.9	2783.3	2981.8	3346.5	4019.6	5157.9	6532.6	6655.7	6769.5	6872.2	6977.9
57.5°	2244.2	2274.5	2473.6	2834.2	3480.5	4733.6	6730.0	6910.1	7073.8	7243.6	7393.3
60°	1640.5	1670.7	1886.7	2252.9	2895.1	4090.3	6579.2	6852.1	7114.2	7374.4	7577.5
62.5°	990.6	1013.1	1203.4	1552.2	2232.4	3327.6	5907.3	6265.3	6651.1	6962.0	7273.2
65°	616.5	629.4	699.7	891.5	1433.8	2484.3	4826.5	5216.8	5632.4	6026.8	6350.5
67.5°	504.8	509.3	522.2	563.2	787.5	1620.0	3592.3	3938.0	4313.0	4694.6	5054.8
70°	454.0	450.9	450.9	453.5	504.8	870.9	2351.9	2577.1	2889.5	3221.4	3550.7
72.5°	409.8	406.8	401.2	393.5	412.0	531.4	1215.8	1385.5	1610.8	1905.7	2221.1
75°	368.3	364.3	357.5	347.9	360.6	401.2	583.8	655.0	764.8	921.8	1097.8
77.5°	325.2	320.1	314.0	306.7	323.2	311.9	342.2	367.8	409.8	460.1	526.2
80°	276.5	271.8	269.9	266.3	285.8	237.5	241.6	257.5	282.2	309.3	340.1
82.5°	216.5	216.5	224.7	226.3	247.8	170.8	180.6	194.5	207.1	221.6	236.0
85°	142.7	143.5	171.3	182.0	195.4	115.0	135.5	140.0	150.2	158.6	164.7
87.5°	44.6	48.1	104.7	115.9	112.4	65.1	83.2	85.2	92.3	97.9	103.1
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	977.1	971.1	965.4	964.9	960.7	955.2	957.1	948.5	949.0	944.4	939.3
5°	1149.0	1144.9	1124.4	1118.7	1103.4	1093.6	1092.1	1071.6	1069.1	1057.2	1044.4
7.5°	1396.2	1382.9	1354.3	1340.5	1314.2	1294.6	1285.5	1258.3	1245.0	1214.1	1200.3
10°	1655.3	1638.4	1603.0	1583.5	1558.4	1527.1	1510.2	1470.6	1455.3	1427.0	1393.2
12.5°	1895.5	1878.4	1842.1	1827.2	1793.8	1760.5	1742.1	1697.3	1677.3	1632.2	1605.6
15°	2117.6	2100.5	2068.7	2053.3	2020.1	1992.9	1968.2	1924.1	1900.5	1858.5	1823.6
17.5°	2333.0	2315.0	2287.4	2273.4	2241.1	2213.5	2186.7	2145.2	2121.1	2079.0	2047.7
20°	2533.0	2519.7	2499.7	2481.2	2448.9	2423.7	2391.9	2356.1	2321.1	2290.4	2260.7
22.5°	2707.4	2702.3	2680.7	2672.5	2644.8	2623.3	2595.7	2560.2	2535.0	2496.1	2468.4
25°	2857.7	2856.3	2845.9	2843.3	2823.8	2803.3	2797.2	2767.9	2744.9	2710.5	2681.8
27.5°	2987.0	2988.5	2986.0	2993.2	2988.0	2978.8	2979.3	2969.5	2956.2	2927.4	2902.3
30°	3130.7	3122.4	3127.0	3137.3	3140.4	3141.5	3158.4	3163.9	3162.9	3144.0	3131.6
32.5°	3333.7	3314.2	3296.3	3294.8	3305.0	3309.1	3337.8	3352.7	3365.5	3370.1	3372.1
35°	3592.9	3553.9	3516.3	3496.4	3478.9	3483.5	3504.1	3528.2	3556.4	3575.9	3598.9
37.5°	3919.0	3871.3	3805.1	3758.0	3746.1	3720.5	3733.8	3752.8	3780.5	3810.8	3850.9
40°	4314.5	4242.2	4167.9	4105.3	4071.4	4024.1	4023.7	4020.1	4037.1	4065.2	4121.7
42.5°	4695.1	4631.0	4552.0	4486.3	4442.3	4379.1	4366.3	4333.0	4340.7	4365.4	4420.2
45°	5051.7	4998.8	4950.6	4874.7	4837.3	4769.0	4747.5	4707.9	4685.9	4697.1	4752.0
47.5°	5396.8	5363.1	5312.8	5263.4	5234.8	5173.8	5146.0	5117.9	5089.5	5088.5	5146.0
50°	6069.8	6051.9	5992.5	5941.1	5955.0	5880.0	5884.6	5808.8	5843.1	5847.2	5967.8
52.5°	6702.3	6765.0	6809.1	6863.0	6897.7	6904.5	6927.5	6962.0	7003.5	7085.6	7197.4
55°	7064.5	7143.1	7188.6	7229.6	7297.4	7311.8	7350.2	7395.8	7432.2	7524.7	7619.6
57.5°	7494.9	7640.5	7711.4	7776.4	7867.9	7902.7	7966.8	8016.6	8063.7	8173.0	8287.9
60°	7760.1	7937.6	8081.7	8184.8	8299.3	8381.2	8478.3	8556.1	8666.9	8797.8	8969.1
62.5°	7549.3	7809.9	8001.2	8178.2	8333.5	8490.5	8629.6	8775.3	8943.4	9141.5	9407.2
65°	6709.5	6974.7	7302.5	7486.1	7691.8	7934.0	8145.3	8381.2	8610.6	8898.9	9291.8
67.5°	5401.5	5709.7	6078.1	6263.3	6499.7	6770.0	7007.0	7295.3	7563.1	7912.5	8398.3
70°	3893.3	4291.9	4601.7	4795.2	5071.1	5349.6	5578.5	5913.9	6135.6	6493.6	6995.8
72.5°	2465.3	2779.7	3159.2	3403.0	3648.1	3930.4	4164.3	4453.5	4660.2	4986.5	5441.6
75°	1325.4	1557.3	1890.8	2122.2	2384.8	2625.8	2899.8	3093.7	3246.6	3504.6	3873.9
77.5°	621.2	762.2	931.1	1109.0	1287.0	1472.7	1653.3	1810.3	1875.9	2023.6	2241.6
80°	377.0	422.7	471.9	526.9	601.1	661.2	740.7	798.1	802.2	849.0	915.6
82.5°	251.9	268.9	283.7	297.5	316.6	331.4	348.4	368.3	376.5	387.3	408.8
85°	171.8	180.0	183.2	191.9	189.8	194.9	201.6	208.2	211.9	211.3	221.2
87.5°	105.7	109.8	111.7	113.8	112.4	110.3	113.4	117.0	117.9	115.0	115.9
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	940.3	935.7	931.1	927.9	927.0	899.7	888.0	880.2	863.8	850.4	839.7
5°	1037.3	1027.4	1019.8	1010.6	1005.5	936.7	911.5	894.2	865.3	848.4	833.1
7.5°	1193.2	1166.0	1150.1	1132.1	1116.8	992.5	951.0	923.8	883.8	861.2	843.8
10°	1370.2	1341.9	1316.7	1289.1	1265.0	1066.9	1006.5	964.4	911.5	882.2	859.1
12.5°	1567.6	1540.0	1508.2	1472.7	1441.9	1161.4	1077.2	1017.2	944.8	905.9	873.6
15°	1801.0	1752.2	1713.7	1672.7	1636.8	1274.2	1159.8	1076.7	980.3	927.4	884.3
17.5°	2018.0	1966.7	1914.4	1878.4	1836.9	1400.8	1243.0	1137.3	1009.5	941.2	886.4
20°	2229.9	2174.0	2128.9	2080.6	2036.9	1532.1	1331.6	1190.6	1028.5	941.9	873.6
22.5°	2416.6	2381.6	2331.5	2279.1	2235.0	1663.5	1414.7	1235.7	1035.7	929.9	851.1
25°	2628.9	2592.0	2530.4	2486.2	2437.1	1797.4	1496.2	1270.7	1031.6	907.9	816.1
27.5°	2855.6	2814.6	2751.5	2705.3	2645.9	1936.4	1571.1	1295.7	1016.3	872.1	769.5
30°	3092.1	3054.6	2992.7	2945.9	2886.0	2083.7	1654.8	1312.7	985.4	822.3	715.1
32.5°	3346.0	3314.7	3253.2	3204.4	3140.4	2243.2	1732.8	1317.9	938.6	763.3	657.6
35°	3587.1	3565.6	3513.8	3468.1	3401.4	2394.1	1815.4	1315.3	883.4	698.6	605.3
37.5°	3858.5	3845.6	3820.0	3762.0	3680.4	2598.6	1914.4	1304.5	815.7	634.6	565.3
40°	4147.8	4148.8	4121.2	4081.7	4005.7	2847.0	2032.3	1283.4	741.7	578.1	528.8
42.5°	4454.1	4470.0	4456.6	4428.5	4355.5	3097.3	2173.4	1257.7	670.0	523.3	493.0
45°	4804.9	4824.3	4844.9	4803.3	4732.6	3427.7	2359.0	1224.4	592.4	477.5	468.3
47.5°	5209.6	5240.4	5258.9	5259.3	5188.6	3837.0	2660.7	1204.4	523.7	446.7	456.6
50°	6063.6	6073.5	6117.1	6192.9	6138.6	4784.5	3187.5	1192.1	477.1	427.9	447.9
52.5°	7294.2	7401.6	7477.0	7471.8	7397.9	5386.1	3477.9	1128.5	449.3	420.6	443.8
55°	7795.5	7929.3	8068.8	8105.9	8048.4	5899.6	3752.3	1064.9	435.9	425.7	445.3
57.5°	8463.3	8689.0	8880.5	8961.0	8877.8	6556.6	4113.5	1031.6	431.9	439.6	455.0
60°	9243.6	9522.7	9774.0	9918.6	9918.6	7311.8	4487.9	1017.7	426.2	460.1	471.4
62.5°	9744.8	10154.6	10534.2	10746.1	10739.9	7837.5	4654.1	970.4	413.4	474.5	494.0
65°	9746.8	10234.1	10717.9	10955.9	10968.1	7772.9	4379.6	857.2	389.9	476.6	516.5
67.5°	8934.3	9453.9	10017.5	10283.8	10345.4	7155.3	3791.2	704.8	351.3	456.0	524.8
70°	7545.7	8052.9	8628.5	8890.2	8999.4	6099.6	3053.7	543.3	302.1	410.9	507.8
72.5°	5944.8	6442.3	6842.8	7034.3	7119.3	4662.4	2223.7	410.3	247.8	346.2	462.2
75°	4208.9	4582.3	4795.2	4837.7	4851.0	2810.4	1351.1	305.2	204.2	269.3	390.4
77.5°	2375.5	2535.6	2518.0	2537.2	2379.2	1085.0	588.4	218.5	168.3	204.6	302.6
80°	927.4	956.2	898.1	880.2	807.3	403.7	259.6	152.4	134.3	154.9	211.9
82.5°	408.8	422.2	409.8	413.0	395.0	208.2	155.4	110.3	102.5	113.4	140.6
85°	225.1	229.2	228.3	234.9	225.1	83.2	73.9	67.7	71.9	77.0	90.3
87.5°	109.8	110.9	107.2	112.8	109.2	42.1	36.4	38.4	42.1	43.1	43.1
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):**

	135°	145°	155°	165°	175°	180°
0°	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	832.0	827.9	828.4	827.3	825.4	825.4
5°	824.9	820.7	820.7	819.8	817.2	817.6
7.5°	832.0	825.4	822.8	819.3	815.7	815.7
10°	840.3	828.4	821.2	815.1	810.5	810.5
12.5°	846.5	827.9	816.1	807.9	803.4	803.4
15°	848.4	824.4	807.9	798.1	794.0	793.6
17.5°	841.8	810.5	790.5	779.2	774.1	772.5
20°	821.2	785.4	761.3	748.4	741.2	738.6
22.5°	790.5	749.5	721.2	707.9	698.6	697.2
25°	747.4	703.3	675.5	662.8	657.6	656.1
27.5°	697.2	656.1	632.4	624.3	619.7	619.1
30°	649.5	614.5	597.2	590.9	585.2	584.3
32.5°	604.7	582.7	576.1	567.3	554.1	552.5
35°	572.9	571.0	566.3	546.8	530.4	525.8
37.5°	553.4	572.5	548.9	510.3	498.6	497.7
40°	542.1	556.6	516.0	502.7	503.7	502.7
42.5°	516.5	531.4	517.1	510.9	515.0	516.0
45°	491.0	507.4	524.8	520.7	530.4	530.4
47.5°	476.6	501.2	524.3	524.3	538.7	543.7
50°	460.1	496.0	516.0	523.3	534.5	530.4
52.5°	459.2	487.3	504.3	517.1	522.2	517.6
55°	460.7	480.1	492.5	506.9	512.9	513.6
57.5°	462.6	476.0	484.2	491.0	509.3	509.3
60°	467.7	472.5	477.1	480.7	504.8	505.2
62.5°	476.0	468.8	467.7	471.4	502.2	500.1
65°	488.9	463.7	456.0	459.7	499.6	493.4
67.5°	506.3	456.0	441.2	443.8	497.7	484.2
70°	522.2	443.8	422.7	420.0	478.1	454.5
72.5°	523.7	429.4	397.1	389.3	415.5	392.9
75°	498.1	419.6	368.8	346.2	343.2	340.1
77.5°	448.9	413.9	336.0	300.7	294.5	296.5
80°	375.5	392.9	296.5	254.4	287.7	284.1
82.5°	280.6	346.7	251.9	225.1	224.7	198.5
85°	155.9	270.3	205.3	168.7	117.5	113.8
87.5°	43.6	150.2	143.5	95.4	65.1	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)