

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: P192212

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192212  
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-04-LED-E1-T2R-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25015 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

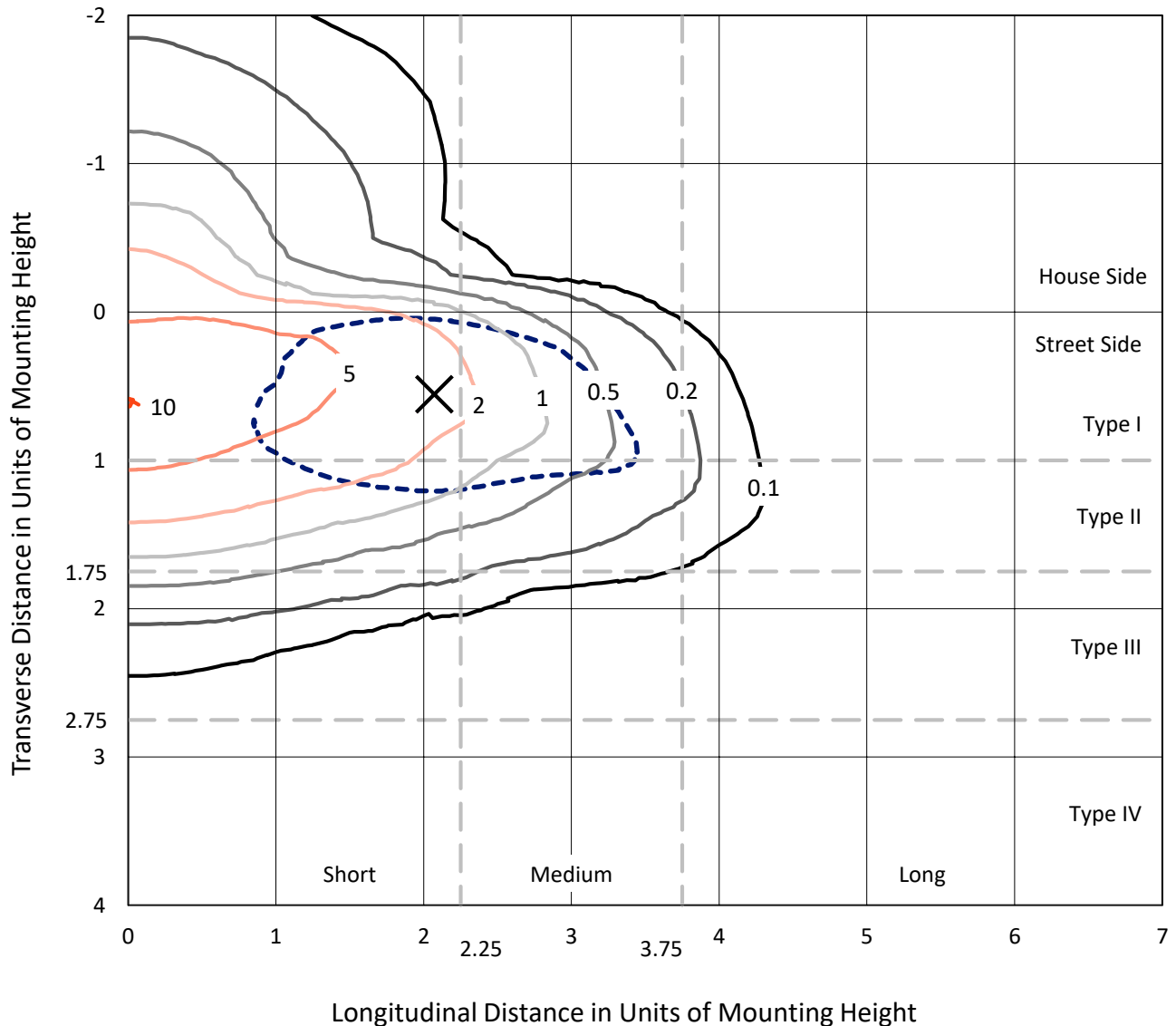
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

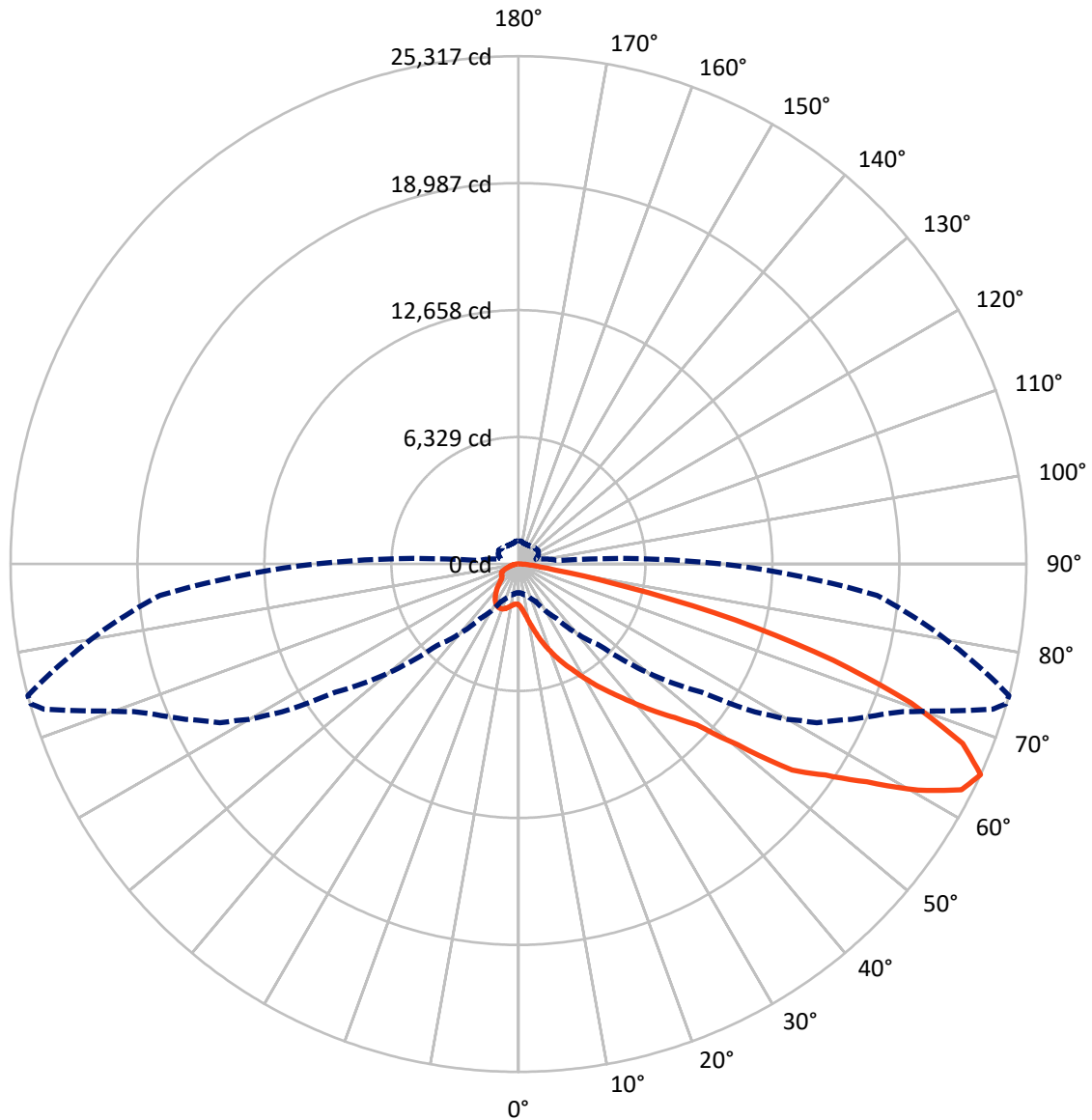
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3856.7	0.0	3856.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	21158.3	0.0	21158.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	25015.0	0.0	25015.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.3	1.0
10°-20°	981.8	3.9
20°-30°	2014.3	8.1
30°-40°	3389.0	13.5
40°-50°	4682.7	18.7
50°-60°	5845.4	23.4
60°-70°	5260.2	21.0
70°-80°	2205.0	8.8
80°-90°	385.2	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°	25015.0	100.0
0°-180°	25015.0	100.0



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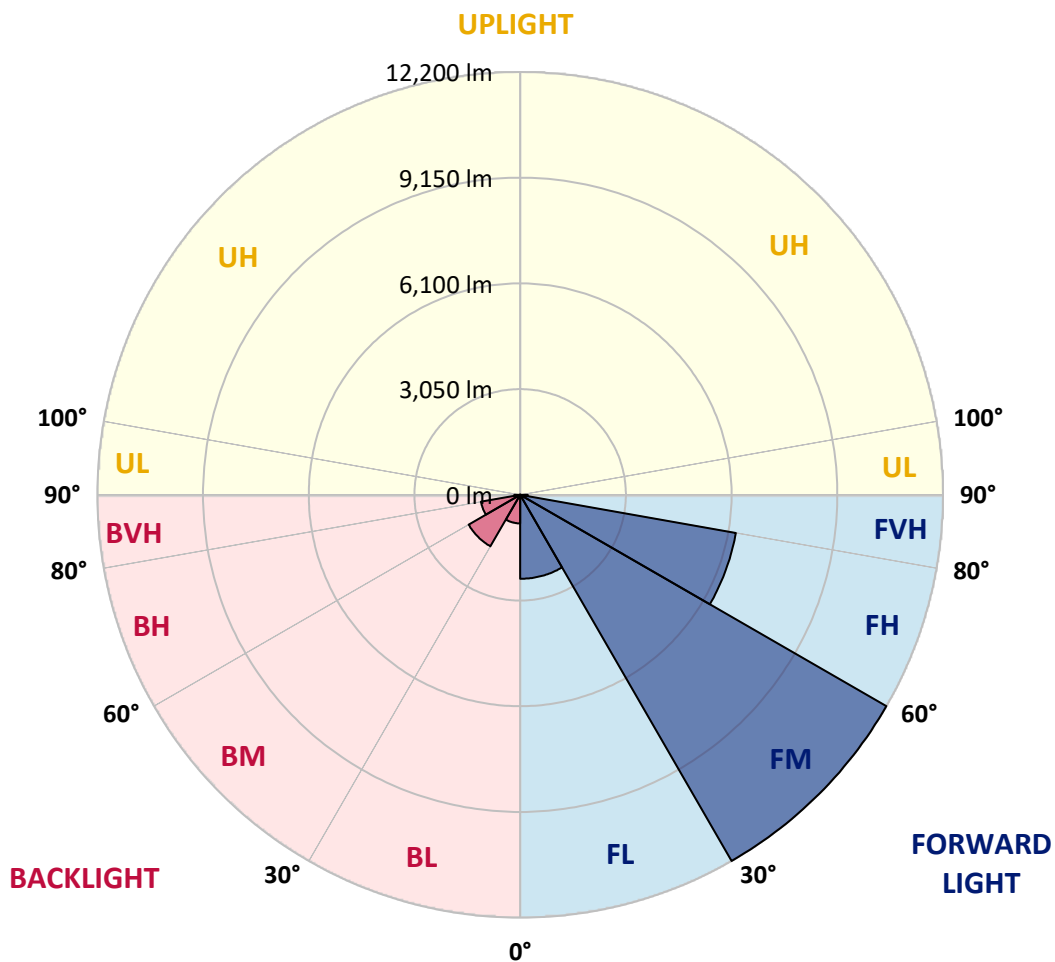
CATALOG NUMBER: GLEON-AF-04-LED-E1-T2R-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.6	9.7			
FM	(30°-60°)	12200.4	48.8			
FH	(60°-80°)	6318.7	25.3			G3/7500
FVH	(80°-90°)	216.5	0.9			G2/225
BL	(0°-30°)	824.8	3.3	B2/1000		
BM	(30°-60°)	1716.7	6.9	B2/2500		
BH	(60°-80°)	1146.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	168.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9
2.5°	2581.1	2552.7	2559.8	2512.5	2454.5	2378.7	2294.6	2293.4	2294.6	2286.3	2255.5
5°	3579.3	3544.9	3531.9	3425.3	3269.1	3046.5	2804.9	2778.9	2768.2	2741.0	2678.2
7.5°	4307.4	4288.5	4268.4	4187.8	4045.8	3797.1	3472.7	3417.1	3363.8	3350.8	3279.7
10°	4777.5	4772.7	4730.1	4708.8	4620.0	4404.5	4088.4	4035.1	3977.1	3957.0	3882.4
12.5°	5149.3	5148.1	5128.0	5133.9	5056.9	4900.6	4628.3	4579.8	4537.1	4475.6	4422.3
15°	5406.2	5407.4	5437.0	5470.1	5458.3	5352.9	5097.2	5075.9	5039.2	4996.5	4933.8
17.5°	5616.9	5622.9	5653.7	5714.0	5779.2	5770.9	5568.4	5550.6	5518.7	5460.7	5427.5
20°	6092.9	6115.4	6056.2	6056.2	6063.3	6095.3	5998.2	5984.0	5939.0	5908.2	5882.2
22.5°	6896.9	6922.9	6789.1	6653.0	6519.2	6422.1	6325.0	6342.7	6312.0	6290.7	6275.3
25°	7941.2	7961.3	7744.6	7514.9	7242.6	6887.4	6647.0	6636.4	6619.8	6606.8	6599.7
27.5°	8923.9	8932.2	8727.3	8391.1	8075.0	7564.6	6973.8	6960.8	6940.7	6915.8	6894.5
30°	9764.5	9762.2	9551.4	9230.6	8891.9	8327.2	7469.9	7429.7	7370.5	7303.0	7250.9
32.5°	10492.7	10489.2	10258.3	9925.6	9570.4	9082.5	8149.5	8066.7	7974.3	7842.9	7763.6
35°	11065.8	11063.4	10845.5	10498.6	10091.3	9794.1	8928.6	8826.8	8709.6	8533.2	8411.2
37.5°	11282.4	11282.4	11160.5	10923.7	10563.7	10360.1	9794.1	9671.0	9545.5	9345.4	9208.1
40°	11155.8	11158.1	11184.2	11140.4	10965.1	10808.8	10601.6	10528.2	10420.5	10240.5	10097.2
42.5°	10730.7	10743.7	10916.6	11128.5	11216.1	11191.3	11318.0	11284.8	11209.0	11070.5	10956.8
45°	10192.0	10232.2	10421.7	10821.9	11286.0	11521.6	11918.3	11921.8	11907.6	11833.0	11745.4
47.5°	9452.0	9508.8	9758.6	10299.7	11122.6	11842.5	12528.0	12560.0	12589.6	12541.0	12500.8
50°	8469.2	8536.7	8910.9	9628.4	10789.9	12175.2	13680.1	13824.5	13959.5	13942.9	13970.1
52.5°	7416.6	7496.0	7954.2	8753.4	10218.0	12252.1	14416.5	14652.1	14887.8	15080.8	15285.6
55°	6467.1	6424.4	6882.7	7724.5	9277.9	11905.2	15078.4	15362.5	15625.4	15862.2	16106.1
57.5°	5180.0	5249.9	5709.3	6541.7	8033.5	10926.1	15534.2	15949.8	16327.5	16719.4	17065.2
60°	3786.5	3856.3	4354.8	5200.2	6682.6	9441.3	15186.1	15816.0	16421.1	17021.3	17490.2
62.5°	2286.3	2338.4	2777.7	3582.8	5152.8	7680.7	13635.1	14461.5	15351.9	16069.4	16788.1
65°	1423.2	1452.8	1615.0	2057.8	3309.3	5734.2	11140.4	12041.4	13000.4	13910.9	14658.1
67.5°	1165.1	1175.7	1205.3	1300.0	1817.5	3739.1	8291.6	9089.7	9955.2	10836.1	11667.2
70°	1047.8	1040.7	1040.7	1046.7	1165.1	2010.5	5428.7	5948.5	6669.5	7435.6	8195.7
72.5°	946.0	938.9	925.9	908.1	950.8	1226.6	2806.1	3198.0	3717.8	4398.6	5126.8
75°	850.1	840.6	825.3	802.8	832.4	925.9	1347.4	1512.0	1765.4	2127.7	2533.8
77.5°	750.7	738.8	724.6	708.0	745.9	719.9	789.7	848.9	946.0	1062.1	1214.8
80°	638.2	627.5	622.8	614.5	659.5	548.2	557.7	594.4	651.2	714.0	785.0
82.5°	499.7	499.7	518.6	522.1	571.9	394.3	416.8	448.7	478.3	511.5	544.6
85°	329.2	331.5	395.5	420.3	451.1	265.2	312.6	323.2	346.9	365.9	380.1
87.5°	103.0	111.3	241.5	267.6	259.3	150.4	191.8	196.5	213.1	226.1	238.0
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°	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9
2.5°	2255.5	2241.3	2228.3	2227.1	2217.7	2204.6	2209.4	2189.2	2190.4	2179.8	2167.9
5°	2652.2	2642.7	2595.4	2582.3	2546.8	2524.3	2520.8	2473.4	2467.5	2440.2	2410.6
7.5°	3222.9	3192.1	3125.8	3093.8	3033.4	2988.4	2967.1	2904.4	2873.6	2802.6	2770.6
10°	3820.8	3781.7	3700.0	3655.0	3597.0	3524.8	3485.7	3394.6	3359.0	3293.9	3215.8
12.5°	4374.9	4335.8	4251.8	4217.4	4140.5	4063.5	4020.9	3917.9	3871.7	3767.5	3706.0
15°	4887.6	4848.5	4775.1	4739.6	4662.6	4599.9	4543.1	4441.2	4386.8	4289.7	4209.2
17.5°	5384.9	5343.4	5279.5	5247.5	5172.9	5109.0	5047.4	4951.5	4895.9	4798.8	4726.6
20°	5846.6	5815.9	5769.7	5727.1	5652.5	5594.5	5521.0	5438.2	5357.7	5286.6	5217.9
22.5°	6249.2	6237.4	6187.6	6168.7	6104.8	6055.0	5991.1	5909.4	5851.4	5761.4	5697.5
25°	6596.1	6592.6	6568.9	6563.0	6518.0	6470.6	6456.4	6388.9	6335.6	6256.3	6190.0
27.5°	6894.5	6898.0	6892.1	6908.7	6896.9	6875.6	6876.7	6854.2	6823.5	6757.2	6699.1
30°	7226.0	7207.1	7217.7	7241.4	7248.5	7250.9	7290.0	7303.0	7300.6	7256.8	7228.4
32.5°	7694.9	7649.9	7608.5	7604.9	7628.6	7638.1	7704.4	7738.7	7768.3	7779.0	7783.7
35°	8292.8	8202.8	8116.4	8070.2	8030.0	8040.6	8088.0	8143.6	8208.7	8253.7	8307.0
37.5°	9045.8	8935.7	8783.0	8674.1	8646.8	8587.6	8618.4	8662.2	8726.2	8796.0	8888.4
40°	9958.7	9791.8	9620.1	9475.6	9397.5	9288.6	9287.4	9279.1	9318.2	9383.3	9513.5
42.5°	10837.3	10689.3	10506.9	10355.4	10253.5	10107.9	10078.3	10001.3	10019.1	10075.9	10202.6
45°	11660.1	11538.2	11426.9	11251.7	11165.2	11007.8	10958.0	10866.9	10815.9	10842.0	10968.7
47.5°	12457.0	12378.8	12262.8	12149.1	12082.8	11941.9	11878.0	11812.9	11747.8	11745.4	11878.0
50°	14010.4	13969.0	13831.6	13713.2	13745.2	13572.3	13583.0	13407.7	13487.1	13496.5	13774.8
52.5°	15470.3	15614.7	15716.6	15840.9	15921.4	15936.8	15990.1	16069.4	16165.3	16354.7	16612.9
55°	16306.2	16487.4	16592.7	16687.5	16843.7	16876.9	16965.7	17071.1	17155.1	17368.3	17587.3
57.5°	17299.6	17635.8	17799.2	17949.6	18160.4	18240.9	18388.9	18503.7	18612.7	18864.9	19130.1
60°	17911.7	18321.4	18654.1	18892.1	19156.1	19345.6	19569.3	19749.3	20005.1	20307.0	20702.4
62.5°	17425.1	18026.6	18468.2	18876.7	19235.4	19597.8	19918.6	20254.9	20643.2	21100.3	21713.6
65°	15486.9	16099.0	16855.6	17279.5	17754.2	18313.1	18800.9	19345.6	19874.8	20540.2	21447.2
67.5°	12467.6	13179.2	14029.3	14456.8	15002.6	15626.6	16173.6	16839.0	17457.1	18263.4	19384.6
70°	8986.6	9906.6	10621.8	11068.1	11705.1	12348.1	12876.1	13650.5	14162.0	14988.4	16147.5
72.5°	5690.4	6416.2	7292.3	7854.7	8420.7	9071.9	9611.8	10279.6	10756.7	11509.8	12560.0
75°	3059.5	3594.7	4364.3	4898.3	5504.5	6061.0	6693.2	7140.8	7493.6	8089.2	8941.7
77.5°	1433.8	1759.4	2149.0	2559.8	2970.7	3399.3	3816.1	4178.4	4329.9	4670.9	5174.1
80°	870.2	975.6	1089.3	1216.0	1387.7	1526.2	1709.7	1842.3	1851.8	1959.5	2113.5
82.5°	581.3	620.4	654.8	686.7	730.5	764.9	803.9	850.1	869.1	893.9	943.7
85°	396.6	415.6	422.7	442.8	438.1	449.9	465.3	480.7	489.0	487.8	510.3
87.5°	243.9	253.4	258.1	262.9	259.3	254.6	261.7	270.0	272.3	265.2	267.6
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9
2.5°	2170.3	2159.6	2149.0	2141.9	2139.5	2076.8	2049.5	2031.8	1993.9	1963.1	1938.2
5°	2394.1	2371.6	2353.8	2332.5	2320.7	2162.0	2104.0	2063.7	1997.4	1958.4	1922.8
7.5°	2754.0	2691.3	2654.6	2613.1	2577.6	2291.1	2195.2	2132.4	2040.1	1988.0	1947.7
10°	3162.5	3097.4	3039.4	2975.4	2919.8	2462.7	2323.0	2225.9	2104.0	2036.5	1983.2
12.5°	3618.3	3554.4	3481.0	3399.3	3328.3	2680.6	2486.4	2347.9	2180.9	2091.0	2016.4
15°	4157.1	4044.6	3955.8	3861.1	3778.2	2941.1	2677.0	2485.2	2262.6	2140.7	2041.2
17.5°	4657.9	4539.5	4418.7	4335.8	4239.9	3233.5	2868.9	2625.0	2330.1	2172.7	2046.0
20°	5146.9	5017.8	4913.6	4802.3	4701.7	3536.6	3073.7	2748.1	2373.9	2173.8	2016.4
22.5°	5577.9	5497.4	5381.3	5260.6	5158.7	3839.7	3265.5	2852.3	2390.5	2146.6	1964.3
25°	6068.1	5982.8	5840.7	5738.9	5625.2	4148.8	3453.8	2932.8	2381.0	2095.7	1883.8
27.5°	6591.4	6496.7	6351.0	6244.5	6107.1	4469.6	3626.6	2990.8	2345.5	2012.8	1776.0
30°	7137.2	7050.8	6907.5	6799.8	6661.2	4809.5	3819.6	3029.9	2274.5	1898.0	1650.5
32.5°	7723.3	7651.1	7509.0	7396.5	7248.5	5177.7	3999.6	3041.7	2166.7	1761.8	1517.9
35°	8279.8	8230.1	8110.5	8005.1	7851.2	5525.8	4190.2	3035.8	2038.9	1612.6	1397.1
37.5°	8906.1	8876.5	8817.3	8683.5	8495.3	5998.2	4418.7	3010.9	1882.6	1464.6	1304.8
40°	9573.9	9576.3	9512.3	9421.2	9245.9	6571.3	4691.1	2962.4	1712.1	1334.4	1220.7
42.5°	10280.8	10317.5	10286.7	10221.6	10053.4	7149.1	5016.7	2903.2	1546.3	1207.7	1137.8
45°	11090.6	11135.6	11183.0	11087.1	10923.7	7911.6	5445.3	2826.2	1367.5	1102.3	1081.0
47.5°	12024.8	12095.9	12138.5	12139.7	11976.3	8856.4	6141.5	2780.1	1208.9	1031.3	1053.8
50°	13996.2	14018.7	14119.3	14294.6	14169.1	11043.3	7357.4	2751.6	1101.1	987.5	1033.6
52.5°	16836.6	17084.1	17258.1	17246.3	17075.8	12432.1	8027.6	2604.8	1037.2	970.9	1024.2
55°	17993.4	18302.4	18624.5	18709.7	18577.1	13617.3	8661.0	2458.0	1006.4	982.7	1027.7
57.5°	19535.0	20056.0	20497.6	20683.5	20491.7	15134.0	9494.6	2381.0	996.9	1014.7	1050.2
60°	21335.9	21980.0	22560.1	22894.0	22894.0	16876.9	10358.9	2349.1	983.9	1062.1	1088.1
62.5°	22492.7	23438.7	24314.9	24803.9	24789.6	18090.5	10742.5	2240.1	954.3	1095.2	1140.2
65°	22497.4	23622.2	24738.7	25288.1	25316.5	17941.3	10109.1	1978.5	899.8	1099.9	1192.3
67.5°	20621.9	21821.3	23122.6	23737.1	23879.1	16515.8	8751.0	1626.8	811.0	1052.6	1211.2
70°	17416.8	18587.8	19916.3	20520.1	20772.3	14079.1	7048.4	1253.9	697.4	948.4	1172.2
72.5°	13721.5	14870.0	15794.7	16236.3	16432.9	10761.5	5132.7	947.2	571.9	799.2	1066.8
75°	9714.8	10576.8	11068.1	11166.4	11197.2	6487.2	3118.7	704.5	471.2	621.6	901.0
77.5°	5483.2	5852.6	5812.3	5856.1	5491.4	2504.2	1358.1	504.4	388.4	472.4	698.6
80°	2140.7	2207.0	2073.2	2031.8	1863.6	931.8	599.1	351.7	310.2	357.6	489.0
82.5°	943.7	974.4	946.0	953.1	911.7	480.7	358.8	254.6	236.8	261.7	324.4
85°	519.8	529.3	526.9	542.3	519.8	191.8	170.5	156.3	165.8	177.6	208.4
87.5°	253.4	255.7	247.5	260.5	252.2	97.1	84.1	88.8	97.1	99.5	99.5
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°	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9
2.5°	1920.5	1911.0	1912.2	1909.8	1905.1	1905.1
5°	1903.9	1894.4	1894.4	1892.0	1886.1	1887.3
7.5°	1920.5	1905.1	1899.2	1890.9	1882.6	1882.6
10°	1939.4	1912.2	1895.6	1881.4	1870.7	1870.7
12.5°	1953.6	1911.0	1883.8	1864.8	1854.2	1854.2
15°	1958.4	1902.7	1864.8	1842.3	1832.8	1831.7
17.5°	1943.0	1870.7	1824.6	1798.5	1786.7	1783.1
20°	1895.6	1812.7	1757.1	1727.5	1710.9	1705.0
22.5°	1824.6	1729.8	1664.7	1633.9	1612.6	1609.1
25°	1725.1	1623.3	1559.3	1529.7	1517.9	1514.4
27.5°	1609.1	1514.4	1459.9	1440.9	1430.3	1429.1
30°	1499.0	1418.4	1378.2	1364.0	1351.0	1348.6
32.5°	1395.9	1345.0	1329.6	1309.5	1278.7	1275.2
35°	1322.5	1317.8	1307.1	1262.2	1224.3	1213.6
37.5°	1277.5	1321.4	1266.9	1178.1	1150.9	1148.5
40°	1251.5	1284.7	1191.1	1160.3	1162.7	1160.3
42.5°	1192.3	1226.6	1193.5	1179.3	1188.7	1191.1
45°	1133.1	1171.0	1211.2	1201.8	1224.3	1224.3
47.5°	1099.9	1156.8	1210.1	1210.1	1243.2	1255.1
50°	1062.1	1144.9	1191.1	1207.7	1233.7	1224.3
52.5°	1059.7	1124.8	1163.9	1193.5	1205.3	1194.7
55°	1063.2	1108.2	1136.7	1169.8	1184.0	1185.2
57.5°	1068.0	1098.8	1117.7	1133.1	1175.7	1175.7
60°	1079.8	1090.5	1101.1	1109.4	1165.1	1166.3
62.5°	1098.8	1082.2	1079.8	1088.1	1159.1	1154.4
65°	1128.4	1070.3	1052.6	1060.9	1153.2	1139.0
67.5°	1168.6	1052.6	1018.2	1024.2	1148.5	1117.7
70°	1205.3	1024.2	975.6	969.7	1103.5	1049.0
72.5°	1208.9	991.0	916.4	898.7	959.0	907.0
75°	1149.7	968.5	851.3	799.2	792.1	785.0
77.5°	1036.0	955.5	775.5	693.8	679.6	684.4
80°	866.7	907.0	684.4	587.3	664.2	655.9
82.5°	647.7	800.4	581.3	519.8	518.6	458.2
85°	359.9	624.0	473.6	389.5	271.1	262.9
87.5°	100.6	346.9	331.5	220.2	150.4	156.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)