

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: P193936

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193936  
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-08-LED-E1-T2R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 26720 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 257  
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

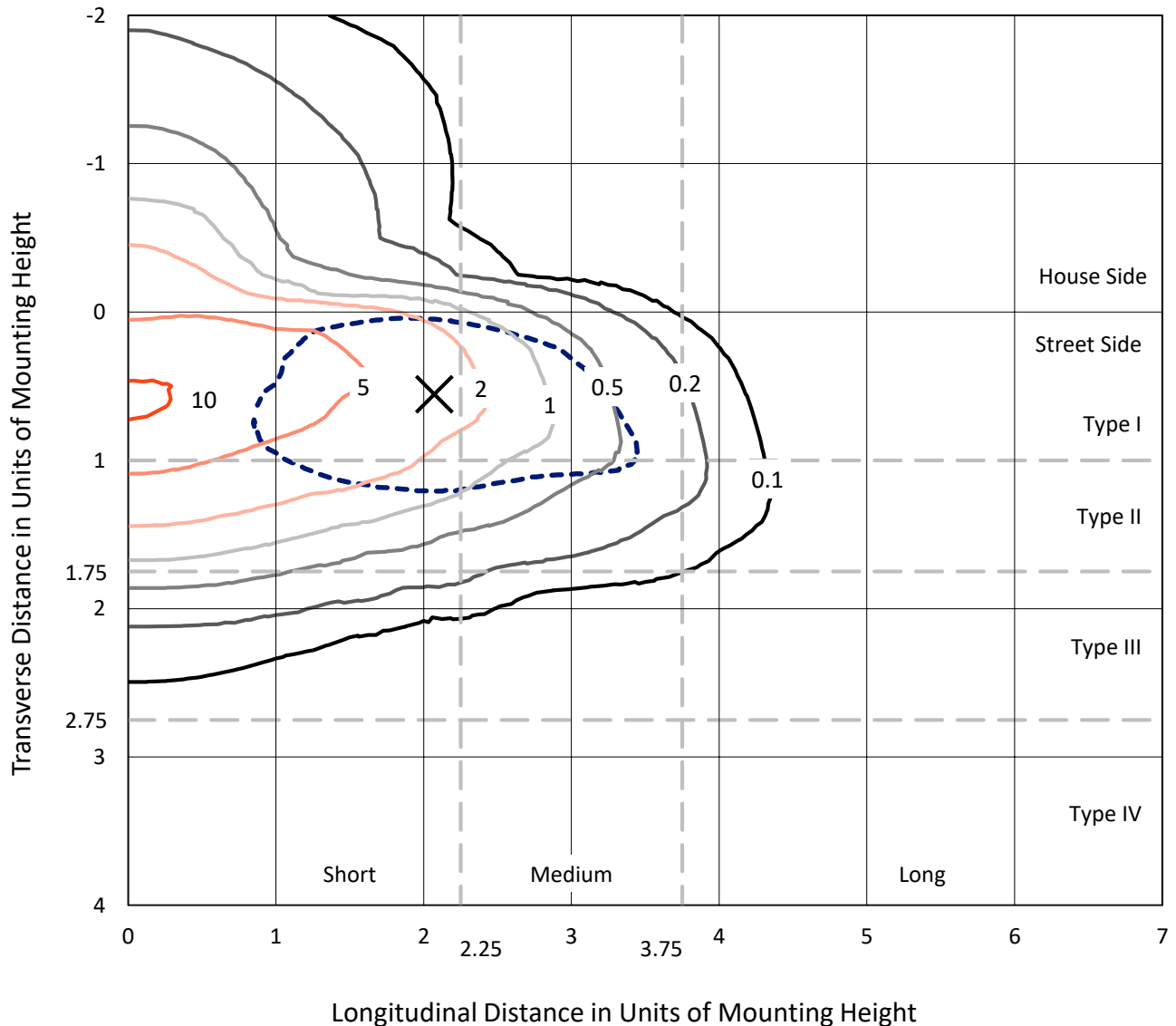


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

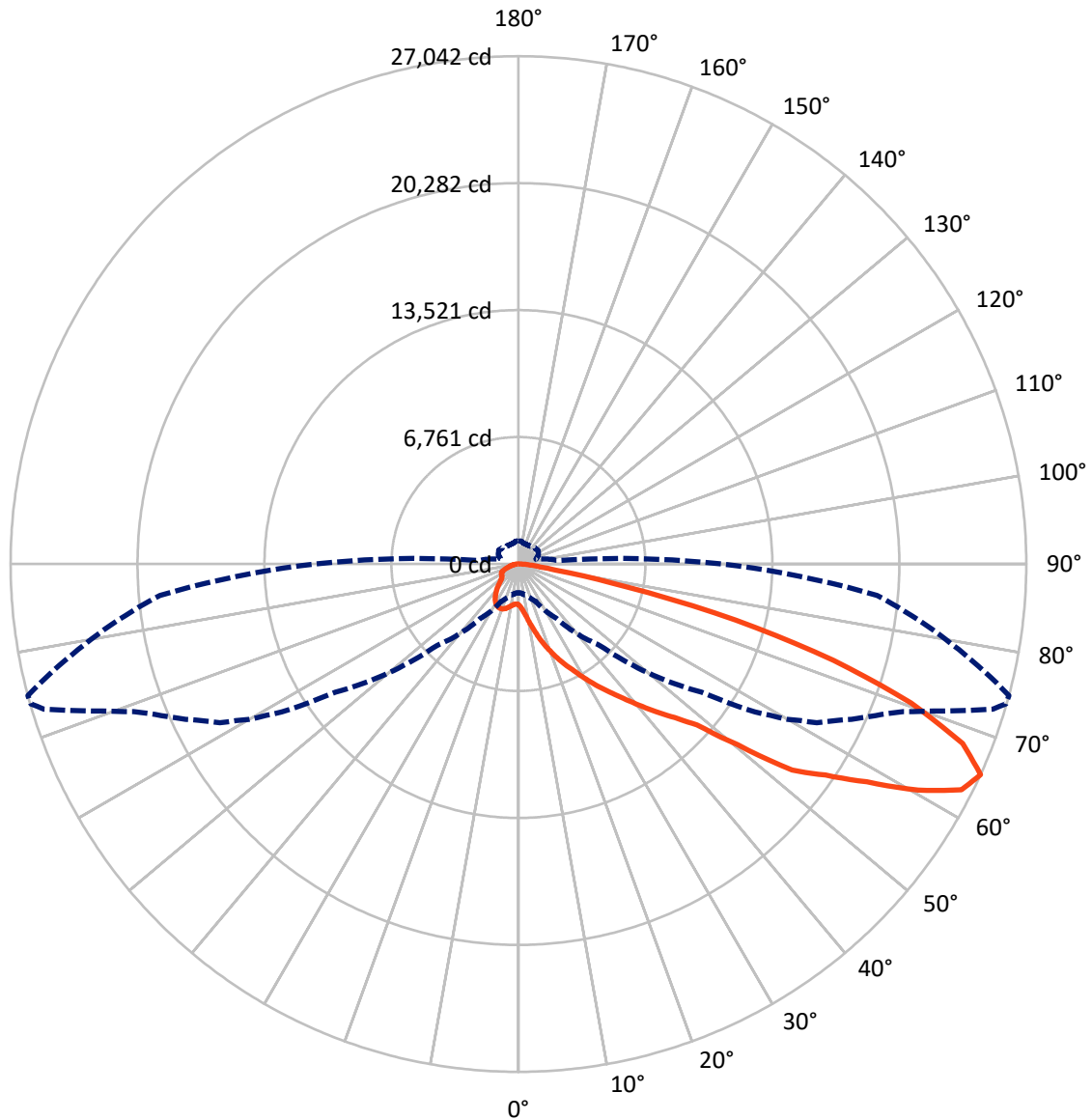


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Full Cutoff

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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	4119.6	0.0	4119.6
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	22600.4	0.0	22600.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	26720.0	0.0	26720.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.4	1.0
10°-20°	1048.7	3.9
20°-30°	2151.6	8.1
30°-40°	3620.0	13.5
40°-50°	5001.8	18.7
50°-60°	6243.8	23.4
60°-70°	5618.8	21.0
70°-80°	2355.3	8.8
80°-90°	411.5	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°	26720.0	100.0
0°-180°	26720.0	100.0



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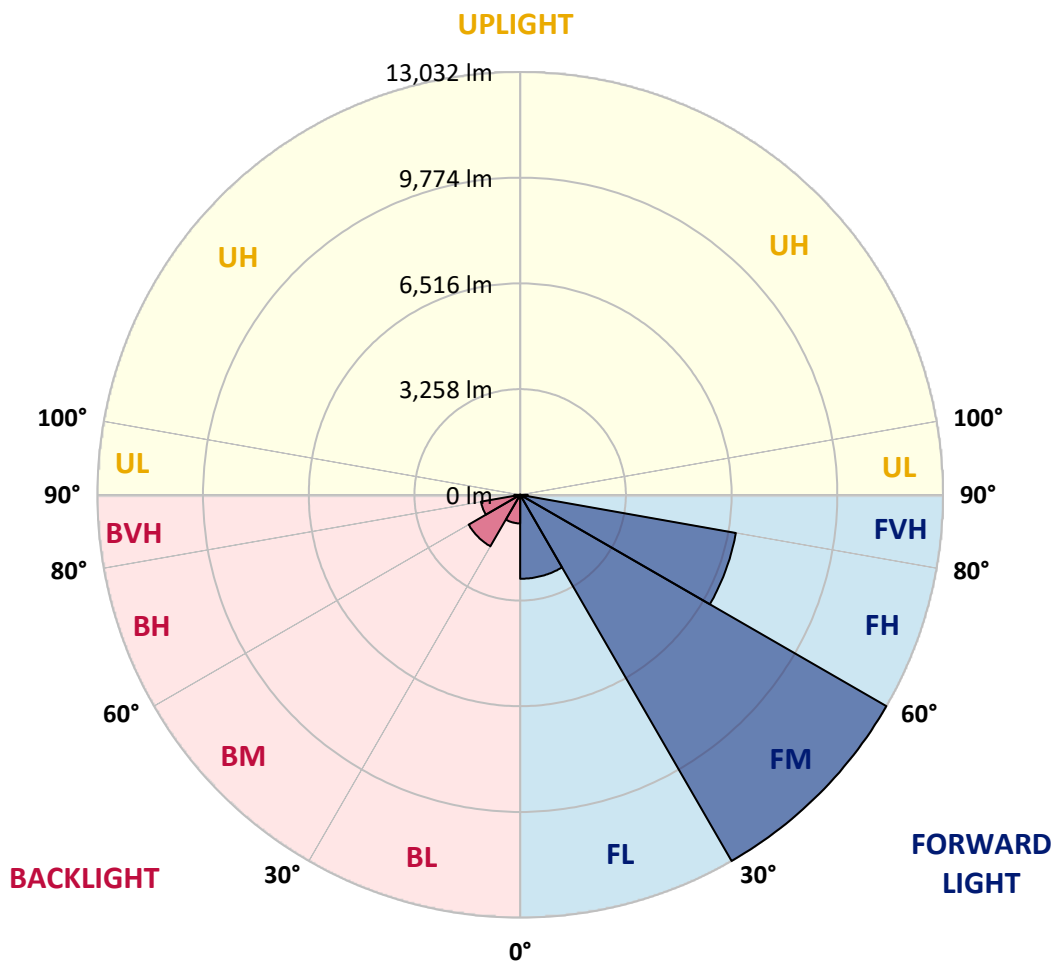
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.8	9.7			
FM (30°-60°)	13032.0	48.8			
FH (60°-80°)	6749.4	25.3			G3/7500
FVH (80°-90°)	231.3	0.9			G3/500
BL (0°-30°)	881.0	3.3	B2/1000		
BM (30°-60°)	1833.7	6.9	B2/2500		
BH (60°-80°)	1224.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	180.2	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°	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5
2.5°	2757.1	2726.7	2734.3	2683.7	2621.7	2540.8	2451.0	2449.7	2451.0	2442.2	2409.3
5°	3823.2	3786.5	3772.6	3658.8	3491.9	3254.1	2996.1	2968.3	2956.9	2927.8	2860.8
7.5°	4601.0	4580.8	4559.3	4473.3	4321.5	4055.9	3709.4	3650.0	3593.0	3579.1	3503.3
10°	5103.1	5098.1	5052.5	5029.8	4934.9	4704.7	4367.1	4310.1	4248.2	4226.7	4147.0
12.5°	5500.2	5499.0	5477.5	5483.8	5401.6	5234.6	4943.8	4891.9	4846.4	4780.6	4723.7
15°	5774.7	5775.9	5807.6	5843.0	5830.3	5717.8	5444.6	5421.8	5382.6	5337.1	5270.1
17.5°	5999.8	6006.1	6039.0	6103.5	6173.1	6164.2	5947.9	5929.0	5894.8	5832.9	5797.4
20°	6508.2	6532.2	6469.0	6469.0	6476.6	6510.7	6407.0	6391.9	6343.8	6310.9	6283.1
22.5°	7366.9	7394.8	7251.9	7106.4	6963.5	6859.8	6756.1	6775.1	6742.2	6719.4	6703.0
25°	8482.4	8503.9	8272.5	8027.1	7736.2	7356.8	7100.1	7088.7	7071.0	7057.1	7049.5
27.5°	9532.1	9541.0	9322.2	8963.0	8625.3	8080.2	7449.2	7435.2	7413.7	7387.2	7364.4
30°	10430.1	10427.6	10202.4	9859.7	9498.0	8894.7	7979.1	7936.1	7872.8	7800.7	7745.1
32.5°	11207.9	11204.1	10957.5	10602.1	10222.7	9701.6	8705.0	8616.5	8517.8	8377.5	8292.7
35°	11820.0	11817.5	11584.8	11214.2	10779.1	10461.7	9537.2	9428.4	9303.2	9114.8	8984.5
37.5°	12051.4	12051.4	11921.2	11668.2	11283.8	11066.2	10461.7	10330.2	10196.1	9982.4	9835.7
40°	11916.1	11918.6	11946.5	11899.7	11712.5	11545.6	11324.2	11245.8	11130.7	10938.5	10785.5
42.5°	11462.1	11476.0	11660.6	11887.0	11980.6	11954.1	12089.4	12054.0	11973.0	11825.1	11703.6
45°	10886.6	10929.6	11132.0	11559.5	12055.2	12306.9	12730.6	12734.4	12719.2	12639.5	12545.9
47.5°	10096.2	10156.9	10423.8	11001.7	11880.7	12649.7	13381.9	13416.1	13447.7	13395.8	13352.8
50°	9046.5	9118.6	9518.2	10284.6	11525.3	13005.0	14612.5	14766.8	14911.0	14893.3	14922.3
52.5°	7922.2	8006.9	8496.3	9350.0	10914.5	13087.2	15399.1	15650.8	15902.5	16108.6	16327.4
55°	6907.9	6862.3	7351.8	8251.0	9910.3	12716.7	16106.1	16409.6	16690.4	16943.4	17203.9
57.5°	5533.1	5607.7	6098.4	6987.5	8581.1	11670.8	16593.0	17036.9	17440.4	17859.0	18228.3
60°	4044.6	4119.2	4651.6	5554.6	7138.0	10084.8	16221.2	16894.0	17540.3	18181.5	18682.3
62.5°	2442.2	2497.8	2967.0	3827.0	5504.0	8204.2	14564.4	15447.2	16398.3	17164.7	17932.4
65°	1520.2	1551.8	1725.1	2198.1	3534.9	6125.0	11899.7	12862.1	13886.5	14859.1	15657.1
67.5°	1244.5	1255.9	1287.5	1388.7	1941.3	3994.0	8856.8	9709.2	10633.7	11574.6	12462.5
70°	1119.3	1111.7	1111.7	1118.0	1244.5	2147.5	5798.7	6353.9	7124.1	7942.4	8754.3
72.5°	1010.5	1002.9	989.0	970.0	1015.6	1310.2	2997.4	3416.0	3971.2	4698.4	5476.2
75°	908.1	897.9	881.5	857.5	889.1	989.0	1439.2	1615.0	1885.7	2272.7	2706.5
77.5°	801.8	789.2	774.0	756.3	796.8	768.9	843.6	906.8	1010.5	1134.4	1297.6
80°	681.7	670.3	665.2	656.4	704.4	585.6	595.7	634.9	695.6	762.6	838.5
82.5°	533.7	533.7	553.9	557.7	610.9	421.1	445.2	479.3	510.9	546.4	581.8
85°	351.6	354.1	422.4	449.0	481.9	283.3	333.9	345.3	370.6	390.8	406.0
87.5°	110.0	118.9	258.0	285.8	277.0	160.6	204.9	209.9	227.6	241.6	254.2
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5
2.5°	2409.3	2394.1	2380.2	2378.9	2368.8	2354.9	2360.0	2338.5	2339.7	2328.3	2315.7
5°	2833.0	2822.8	2772.2	2758.3	2720.4	2696.4	2692.6	2642.0	2635.7	2606.6	2575.0
7.5°	3442.5	3409.7	3338.8	3304.7	3240.2	3192.1	3169.4	3102.3	3069.5	2993.6	2959.4
10°	4081.2	4039.5	3952.2	3904.2	3842.2	3765.0	3723.3	3625.9	3588.0	3518.4	3435.0
12.5°	4673.1	4631.4	4541.6	4504.9	4422.7	4340.5	4295.0	4184.9	4135.6	4024.3	3958.5
15°	5220.7	5179.0	5100.6	5062.6	4980.4	4913.4	4852.7	4743.9	4685.8	4582.1	4496.1
17.5°	5751.9	5707.6	5639.4	5605.2	5525.5	5457.2	5391.5	5289.0	5229.6	5125.9	5048.7
20°	6245.1	6212.3	6162.9	6117.4	6037.7	5975.8	5897.4	5808.8	5722.8	5646.9	5573.6
22.5°	6675.2	6662.5	6609.4	6589.2	6520.9	6467.7	6399.4	6312.2	6250.2	6154.1	6085.8
25°	7045.7	7041.9	7016.6	7010.3	6962.2	6911.7	6896.5	6824.4	6767.5	6682.7	6611.9
27.5°	7364.4	7368.2	7361.9	7379.6	7366.9	7344.2	7345.4	7321.4	7288.5	7217.7	7155.7
30°	7718.5	7698.3	7709.7	7735.0	7742.6	7745.1	7786.8	7800.7	7798.2	7751.4	7721.1
32.5°	8219.4	8171.3	8127.0	8123.2	8148.5	8158.7	8229.5	8266.2	8297.8	8309.2	8314.2
35°	8858.0	8761.9	8669.6	8620.3	8577.3	8588.7	8639.3	8698.7	8768.3	8816.3	8873.2
37.5°	9662.4	9544.8	9381.6	9265.3	9236.2	9173.0	9205.8	9252.6	9320.9	9395.5	9494.2
40°	10637.5	10459.2	10275.8	10121.5	10038.0	9921.7	9920.4	9911.6	9953.3	10022.8	10162.0
42.5°	11575.9	11417.8	11223.1	11061.2	10952.4	10796.8	10765.2	10683.0	10702.0	10762.7	10898.0
45°	12454.9	12324.6	12205.7	12018.6	11926.2	11758.0	11704.9	11607.5	11553.1	11581.0	11716.3
47.5°	13306.0	13222.6	13098.6	12977.2	12906.4	12755.9	12687.6	12618.0	12548.5	12545.9	12687.6
50°	14965.3	14921.1	14774.4	14647.9	14682.0	14497.4	14508.8	14321.6	14406.3	14416.5	14713.7
52.5°	16524.7	16679.0	16787.8	16920.6	17006.6	17023.0	17079.9	17164.7	17267.1	17469.5	17745.2
55°	17417.6	17611.1	17723.7	17824.9	17991.8	18027.2	18122.1	18234.6	18324.4	18552.1	18786.0
57.5°	18478.7	18837.9	19012.4	19173.0	19398.2	19484.2	19642.2	19764.9	19881.3	20150.7	20434.0
60°	19132.6	19570.2	19925.5	20179.8	20461.8	20664.1	20903.2	21095.4	21368.6	21691.1	22113.5
62.5°	18612.8	19255.2	19727.0	20163.3	20546.5	20933.5	21276.3	21635.4	22050.3	22538.4	23193.6
65°	16542.4	17196.3	18004.4	18457.2	18964.4	19561.3	20082.4	20664.1	21229.5	21940.2	22909.0
67.5°	13317.4	14077.5	14985.6	15442.1	16025.2	16691.7	17276.0	17986.7	18646.9	19508.2	20705.9
70°	9599.2	10581.8	11345.7	11822.5	12502.9	13189.7	13753.7	14580.9	15127.2	16010.0	17248.1
72.5°	6078.2	6853.5	7789.4	8390.1	8994.6	9690.2	10266.9	10980.2	11489.9	12294.3	13416.1
75°	3268.0	3839.7	4661.7	5232.1	5879.6	6474.1	7149.4	7627.5	8004.4	8640.5	9551.1
77.5°	1531.6	1879.4	2295.5	2734.3	3173.2	3631.0	4076.2	4463.2	4625.1	4989.3	5526.8
80°	929.6	1042.1	1163.5	1298.9	1482.2	1630.2	1826.2	1967.9	1978.0	2093.1	2257.5
82.5°	621.0	662.7	699.4	733.5	780.3	817.0	858.7	908.1	928.3	954.9	1008.0
85°	423.7	443.9	451.5	473.0	467.9	480.6	497.0	513.5	522.3	521.1	545.1
87.5°	260.5	270.6	275.7	280.8	277.0	271.9	279.5	288.4	290.9	283.3	285.8
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5
2.5°	2318.2	2306.8	2295.5	2287.9	2285.3	2218.3	2189.2	2170.2	2129.8	2096.9	2070.3
5°	2557.2	2533.2	2514.2	2491.5	2478.8	2309.4	2247.4	2204.4	2133.6	2091.8	2053.9
7.5°	2941.7	2874.7	2835.5	2791.2	2753.3	2447.2	2344.8	2277.7	2179.1	2123.5	2080.5
10°	3378.0	3308.5	3246.5	3178.2	3118.8	2630.6	2481.4	2377.7	2247.4	2175.3	2118.4
12.5°	3865.0	3796.7	3718.3	3631.0	3555.1	2863.3	2655.9	2507.9	2329.6	2233.5	2153.8
15°	4440.4	4320.3	4225.4	4124.2	4035.7	3141.5	2859.5	2654.6	2416.9	2286.6	2180.4
17.5°	4975.4	4848.9	4719.9	4631.4	4528.9	3453.9	3064.4	2803.9	2489.0	2320.7	2185.4
20°	5497.7	5359.9	5248.6	5129.7	5022.2	3777.7	3283.2	2935.4	2535.7	2322.0	2153.8
22.5°	5958.1	5872.1	5748.1	5619.1	5510.4	4101.5	3488.1	3046.7	2553.5	2292.9	2098.2
25°	6481.7	6390.6	6238.8	6130.1	6008.6	4431.6	3689.2	3132.7	2543.3	2238.5	2012.2
27.5°	7040.7	6939.5	6783.9	6670.1	6523.4	4774.3	3873.8	3194.7	2505.4	2150.0	1897.1
30°	7623.7	7531.4	7378.3	7263.2	7115.3	5137.3	4080.0	3236.4	2429.5	2027.3	1763.0
32.5°	8249.7	8172.6	8020.8	7900.7	7742.6	5530.6	4272.2	3249.0	2314.4	1881.9	1621.4
35°	8844.1	8791.0	8663.3	8550.7	8386.3	5902.4	4475.8	3242.7	2177.8	1722.5	1492.4
37.5°	9513.2	9481.5	9418.3	9275.4	9074.3	6407.0	4719.9	3216.2	2010.9	1564.4	1393.7
40°	10226.5	10229.0	10160.7	10063.3	9876.1	7019.2	5010.8	3164.3	1828.8	1425.3	1303.9
42.5°	10981.5	11020.7	10987.8	10918.3	10738.7	7636.3	5358.6	3101.1	1651.7	1290.0	1215.4
45°	11846.6	11894.6	11945.2	11842.8	11668.2	8450.8	5816.4	3018.9	1460.7	1177.4	1154.7
47.5°	12844.4	12920.3	12965.8	12967.1	12792.6	9460.0	6560.1	2969.5	1291.3	1101.6	1125.6
50°	14950.2	14974.2	15081.7	15268.9	15134.8	11796.0	7858.9	2939.2	1176.2	1054.8	1104.1
52.5°	17984.2	18248.5	18434.4	18421.8	18239.7	13279.5	8574.7	2782.4	1107.9	1037.1	1094.0
55°	19219.8	19549.9	19893.9	19985.0	19843.3	14545.5	9251.4	2625.5	1075.0	1049.7	1097.8
57.5°	20866.5	21423.0	21894.7	22093.3	21888.4	16165.6	10141.7	2543.3	1064.9	1083.9	1121.8
60°	22790.1	23478.1	24097.8	24454.5	24454.5	18027.2	11065.0	2509.2	1051.0	1134.4	1162.3
62.5°	24025.7	25036.2	25972.1	26494.5	26479.3	19323.5	11474.7	2392.8	1019.4	1169.9	1217.9
65°	24030.8	25232.3	26424.9	27011.7	27042.1	19164.2	10798.1	2113.3	961.2	1174.9	1273.6
67.5°	22027.5	23308.6	24698.6	25355.0	25506.7	17641.5	9347.5	1737.7	866.3	1124.3	1293.8
70°	18603.9	19854.7	21273.7	21918.7	22188.1	15038.7	7528.8	1339.3	744.9	1013.0	1252.1
72.5°	14656.8	15883.5	16871.3	17343.0	17552.9	11495.0	5482.5	1011.8	610.9	853.7	1139.5
75°	10377.0	11297.7	11822.5	11927.5	11960.4	6929.4	3331.3	752.5	503.4	664.0	962.4
77.5°	5856.9	6251.5	6208.5	6255.3	5865.7	2674.9	1450.6	538.8	414.8	504.6	746.2
80°	2286.6	2357.4	2214.5	2170.2	1990.7	995.3	639.9	375.6	331.4	381.9	522.3
82.5°	1008.0	1040.9	1010.5	1018.1	973.8	513.5	383.2	271.9	252.9	279.5	346.5
85°	555.2	565.3	562.8	579.2	555.2	204.9	182.1	166.9	177.1	189.7	222.6
87.5°	270.6	273.2	264.3	278.2	269.4	103.7	89.8	94.9	103.7	106.2	106.2
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):**

	135°	145°	155°	165°	175°	180°
0°	2171.5	2171.5	2171.5	2171.5	2171.5	2171.5
2.5°	2051.4	2041.2	2042.5	2040.0	2034.9	2034.9
5°	2033.7	2023.5	2023.5	2021.0	2014.7	2016.0
7.5°	2051.4	2034.9	2028.6	2019.7	2010.9	2010.9
10°	2071.6	2042.5	2024.8	2009.6	1998.2	1998.2
12.5°	2086.8	2041.2	2012.2	1991.9	1980.5	1980.5
15°	2091.8	2032.4	1991.9	1967.9	1957.8	1956.5
17.5°	2075.4	1998.2	1948.9	1921.1	1908.5	1904.7
20°	2024.8	1936.3	1876.8	1845.2	1827.5	1821.2
22.5°	1948.9	1847.7	1778.2	1745.3	1722.5	1718.7
25°	1842.7	1733.9	1665.6	1634.0	1621.4	1617.6
27.5°	1718.7	1617.6	1559.4	1539.2	1527.8	1526.5
30°	1601.1	1515.1	1472.1	1456.9	1443.0	1440.5
32.5°	1491.1	1436.7	1420.3	1398.8	1365.9	1362.1
35°	1412.7	1407.6	1396.2	1348.2	1307.7	1296.3
37.5°	1364.6	1411.4	1353.2	1258.4	1229.3	1226.8
40°	1336.8	1372.2	1272.3	1239.4	1241.9	1239.4
42.5°	1273.6	1310.2	1274.8	1259.7	1269.8	1272.3
45°	1210.3	1250.8	1293.8	1283.7	1307.7	1307.7
47.5°	1174.9	1235.6	1292.5	1292.5	1327.9	1340.6
50°	1134.4	1223.0	1272.3	1290.0	1317.8	1307.7
52.5°	1131.9	1201.5	1243.2	1274.8	1287.5	1276.1
55°	1135.7	1183.8	1214.1	1249.5	1264.7	1266.0
57.5°	1140.8	1173.7	1193.9	1210.3	1255.9	1255.9
60°	1153.4	1164.8	1176.2	1185.0	1244.5	1245.7
62.5°	1173.7	1155.9	1153.4	1162.3	1238.2	1233.1
65°	1205.3	1143.3	1124.3	1133.2	1231.8	1216.7
67.5°	1248.3	1124.3	1087.7	1094.0	1226.8	1193.9
70°	1287.5	1094.0	1042.1	1035.8	1178.7	1120.5
72.5°	1291.3	1058.6	978.9	959.9	1024.4	968.8
75°	1228.0	1034.5	909.3	853.7	846.1	838.5
77.5°	1106.6	1020.6	828.4	741.1	725.9	731.0
80°	925.8	968.8	731.0	627.3	709.5	700.7
82.5°	691.8	854.9	621.0	555.2	553.9	489.4
85°	384.5	666.5	505.9	416.1	289.6	280.8
87.5°	107.5	370.6	354.1	235.2	160.6	166.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)