

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: P193944

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193944  
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-06-LED-E1-T2R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 24452 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 249  
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

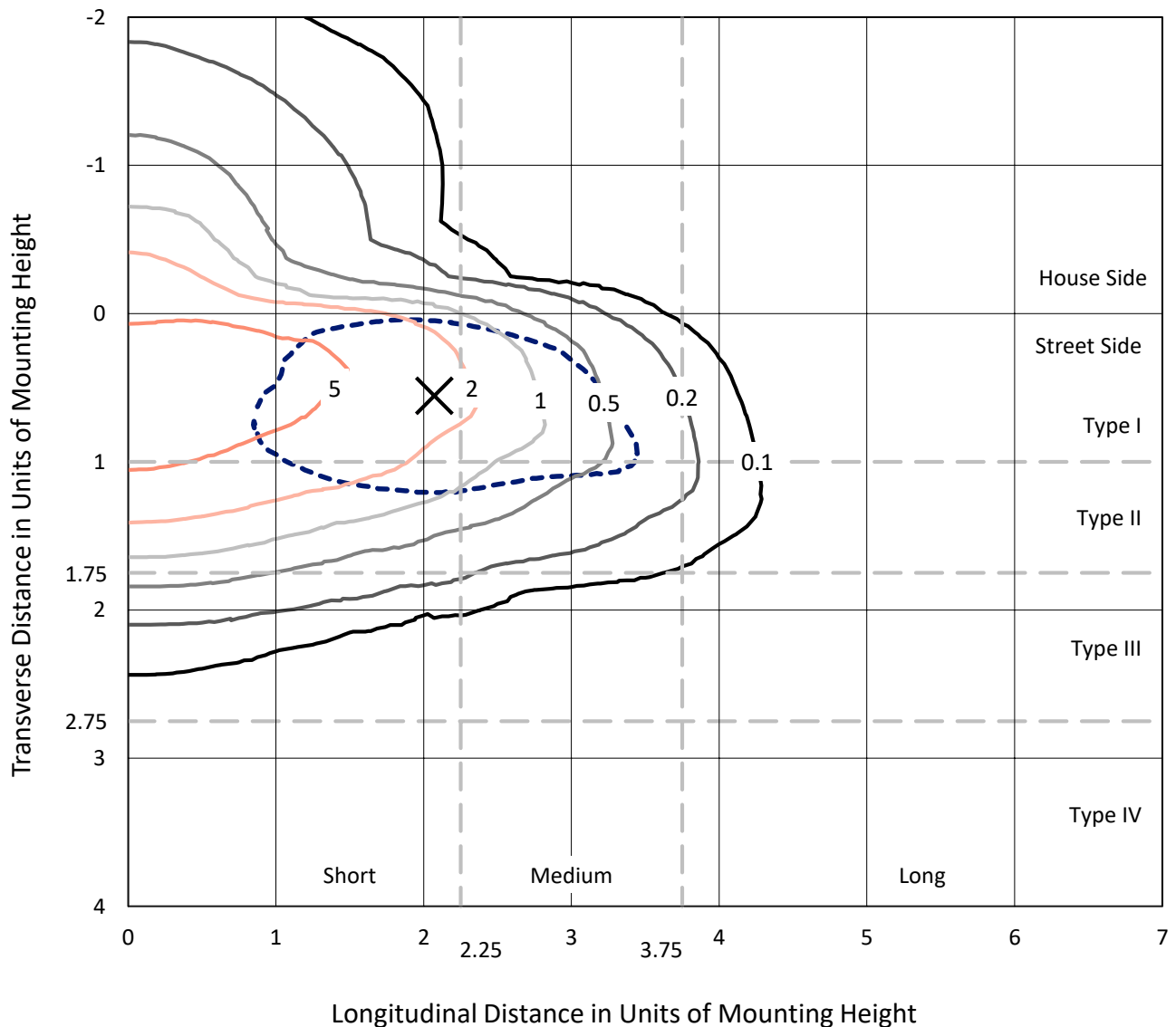


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

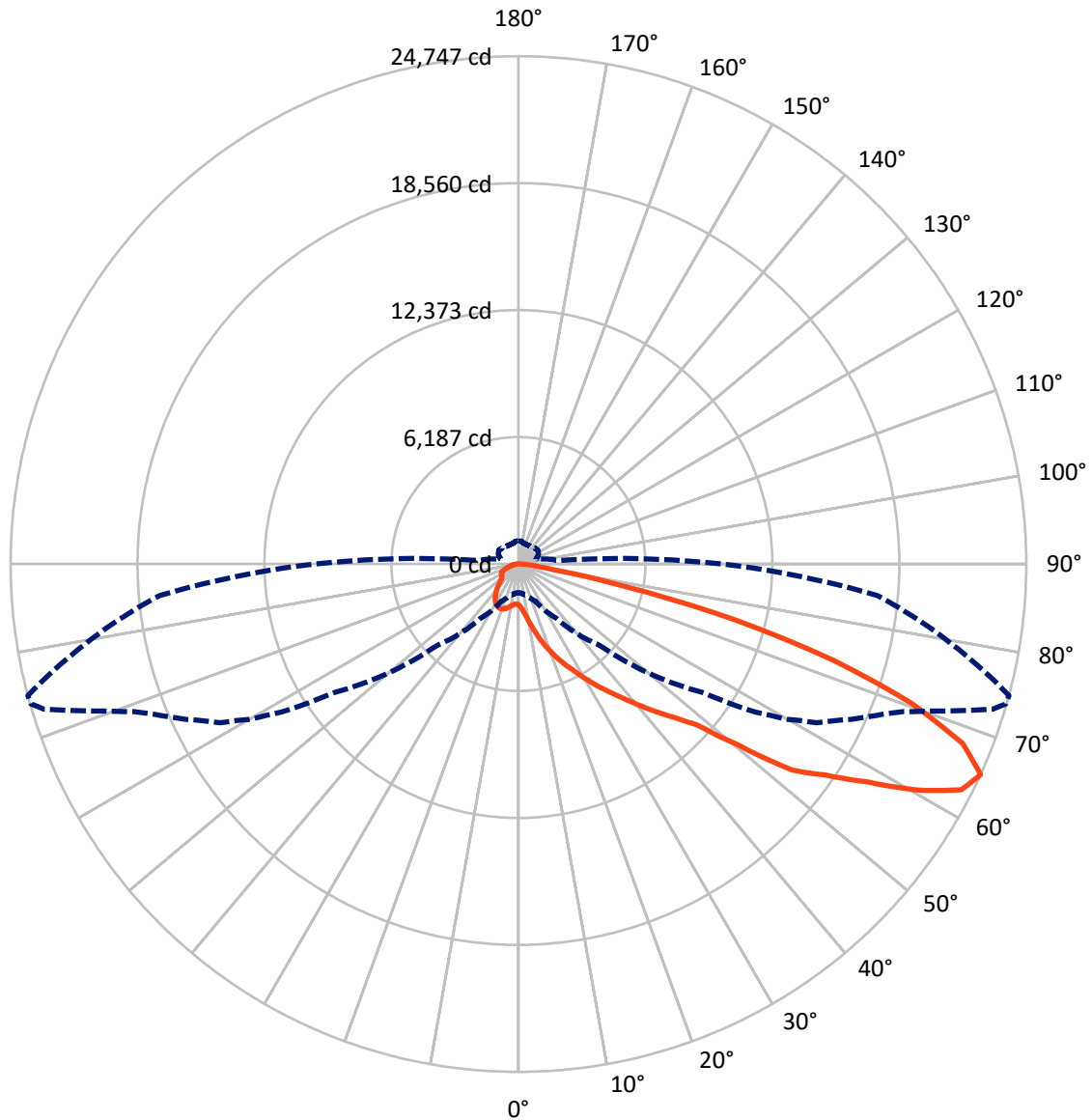


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Full Cutoff

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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	3769.9	0.0	3769.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	20682.1	0.0	20682.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	24452.0	0.0	24452.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.6	1.0
10°-20°	959.7	3.9
20°-30°	1969.0	8.1
30°-40°	3312.7	13.5
40°-50°	4577.3	18.7
50°-60°	5713.8	23.4
60°-70°	5141.8	21.0
70°-80°	2155.4	8.8
80°-90°	376.6	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°	24452.0	100.0
0°-180°	24452.0	100.0



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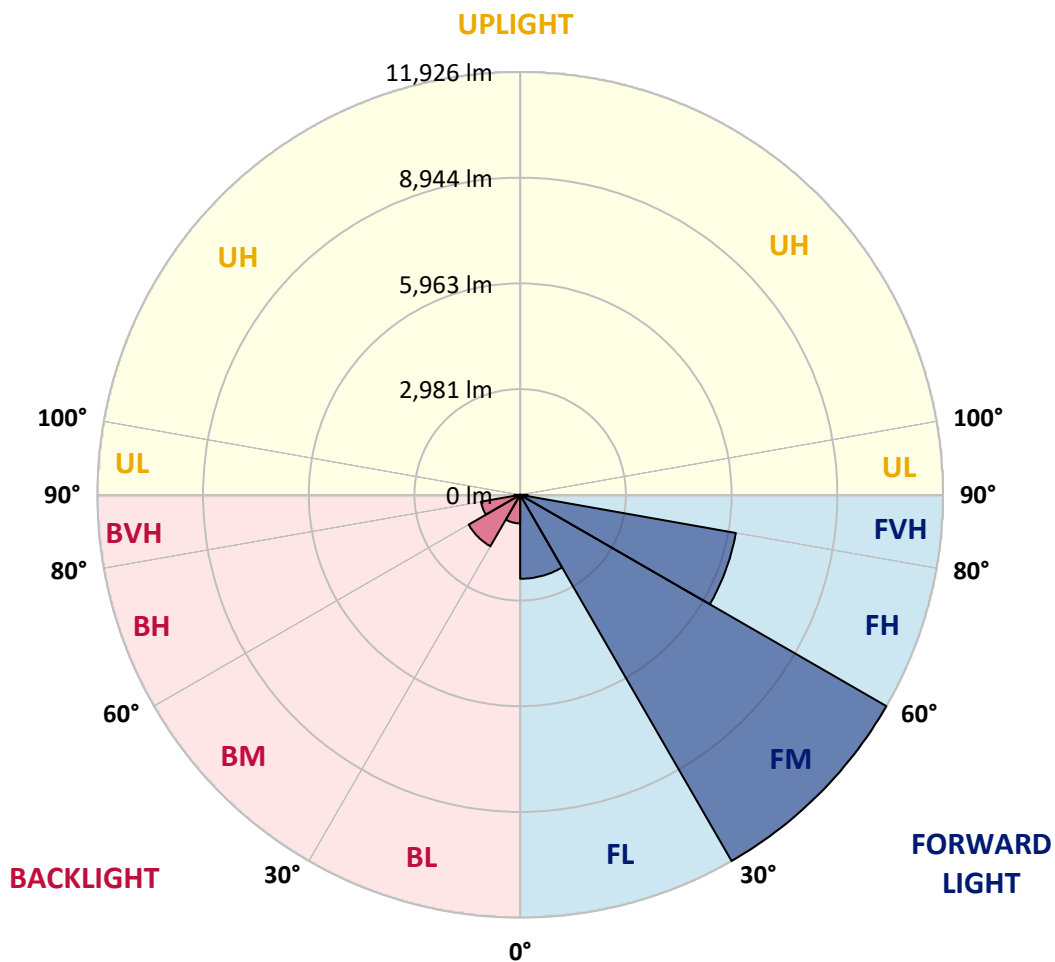
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.1	9.7			
FM (30°-60°)	11925.8	48.8			
FH (60°-80°)	6176.5	25.3			G3/7500
FVH (80°-90°)	211.7	0.9			G2/225
BL (0°-30°)	806.2	3.3	B2/1000		
BM (30°-60°)	1678.0	6.9	B2/2500		
BH (60°-80°)	1120.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	164.9	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°	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2
2.5°	2523.1	2495.3	2502.2	2455.9	2399.2	2325.1	2243.0	2241.8	2243.0	2234.9	2204.8
5°	3498.7	3465.1	3452.4	3348.3	3195.5	2977.9	2741.8	2716.3	2705.9	2679.3	2618.0
7.5°	4210.5	4192.0	4172.3	4093.6	3954.7	3711.7	3394.5	3340.2	3288.1	3275.3	3205.9
10°	4670.0	4665.3	4623.7	4602.8	4516.0	4305.4	3996.4	3944.3	3887.6	3867.9	3795.0
12.5°	5033.4	5032.2	5012.5	5018.3	4943.1	4790.3	4524.1	4476.7	4435.0	4374.8	4322.8
15°	5284.5	5285.7	5314.6	5347.0	5335.4	5232.4	4982.4	4961.6	4925.7	4884.1	4822.7
17.5°	5490.5	5496.3	5526.4	5585.4	5649.1	5641.0	5443.1	5425.7	5394.5	5337.8	5305.4
20°	5955.8	5977.8	5919.9	5919.9	5926.9	5958.1	5863.2	5849.3	5805.3	5775.2	5749.8
22.5°	6741.6	6767.1	6636.3	6503.2	6372.4	6277.5	6182.6	6200.0	6169.9	6149.1	6134.0
25°	7762.4	7782.1	7570.3	7345.8	7079.6	6732.4	6497.4	6487.0	6470.8	6458.1	6451.1
27.5°	8723.0	8731.1	8530.9	8202.2	7893.2	7394.4	6816.9	6804.1	6784.5	6760.2	6739.3
30°	9544.8	9542.5	9336.4	9022.8	8691.8	8139.7	7301.8	7262.5	7204.6	7138.6	7087.7
32.5°	10256.6	10253.1	10027.4	9702.2	9355.0	8878.1	7966.1	7885.1	7794.8	7666.4	7588.8
35°	10816.7	10814.4	10601.4	10262.3	9864.2	9573.7	8727.7	8628.1	8513.6	8341.1	8221.9
37.5°	11028.5	11028.5	10909.3	10677.8	10326.0	10126.9	9573.7	9453.3	9330.7	9135.1	9000.8
40°	10904.7	10907.0	10932.5	10889.6	10718.3	10565.6	10363.0	10291.3	10186.0	10010.0	9870.0
42.5°	10489.2	10501.9	10670.9	10878.1	10963.7	10939.4	11063.2	11030.8	10956.8	10821.3	10710.2
45°	9962.6	10001.9	10187.1	10578.3	11032.0	11262.3	11650.0	11653.5	11639.6	11566.7	11481.0
47.5°	9239.2	9294.8	9539.0	10067.9	10872.3	11575.9	12246.1	12277.3	12306.2	12258.8	12219.4
50°	8278.6	8344.6	8710.3	9411.7	10547.1	11901.2	13372.2	13513.4	13645.3	13629.1	13655.7
52.5°	7249.7	7327.3	7775.2	8556.4	9988.0	11976.4	14092.1	14322.4	14552.7	14741.3	14941.6
55°	6321.5	6279.9	6727.8	7550.6	9069.1	11637.3	14739.0	15016.8	15273.7	15505.2	15743.6
57.5°	5063.5	5131.7	5580.8	6394.4	7852.7	10680.1	15184.6	15590.8	15960.0	16343.1	16681.1
60°	3701.2	3769.5	4256.8	5083.1	6532.2	9228.8	14844.3	15460.1	16051.5	16638.3	17096.6
62.5°	2234.9	2285.8	2715.2	3502.2	5036.8	7507.8	13328.2	14136.0	15006.4	15707.7	16410.3
65°	1391.2	1420.1	1578.6	2011.5	3234.8	5605.1	10889.6	11770.4	12707.8	13597.9	14328.2
67.5°	1138.8	1149.3	1178.2	1270.8	1776.6	3655.0	8105.0	8885.1	9731.1	10592.2	11404.7
70°	1024.3	1017.3	1017.3	1023.1	1138.8	1965.2	5306.5	5814.6	6519.4	7268.2	8011.3
72.5°	924.7	917.8	905.1	887.7	929.4	1199.0	2743.0	3126.0	3634.1	4299.6	5011.4
75°	831.0	821.7	806.7	784.7	813.6	905.1	1317.1	1478.0	1725.6	2079.8	2476.8
77.5°	733.8	722.2	708.3	692.1	729.1	703.7	772.0	829.8	924.7	1038.2	1187.5
80°	623.8	613.4	608.8	600.7	644.7	535.9	545.1	581.0	636.5	697.9	767.3
82.5°	488.4	488.4	506.9	510.4	559.0	385.4	407.4	438.6	467.6	500.0	532.4
85°	321.7	324.1	386.6	410.9	441.0	259.2	305.5	316.0	339.1	357.6	371.5
87.5°	100.7	108.8	236.1	261.6	253.5	147.0	187.5	192.1	208.3	221.1	232.6
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°	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2
2.5°	2204.8	2190.9	2178.2	2177.0	2167.7	2155.0	2159.6	2140.0	2141.1	2130.7	2119.1
5°	2592.5	2583.2	2536.9	2524.2	2489.5	2467.5	2464.0	2417.7	2411.9	2385.3	2356.4
7.5°	3150.3	3120.3	3055.4	3024.2	2965.2	2921.2	2900.4	2839.0	2808.9	2739.5	2708.2
10°	3734.8	3696.6	3616.8	3572.8	3516.1	3445.5	3407.3	3318.2	3283.4	3219.8	3143.4
12.5°	4276.5	4238.3	4156.1	4122.5	4047.3	3972.1	3930.4	3829.7	3784.6	3682.7	3622.5
15°	4777.6	4739.4	4667.6	4632.9	4557.7	4496.4	4440.8	4341.3	4288.0	4193.1	4114.4
17.5°	5263.7	5223.2	5160.7	5129.4	5056.5	4994.0	4933.8	4840.1	4785.7	4690.8	4620.2
20°	5715.1	5685.0	5639.8	5598.2	5525.3	5468.5	5396.8	5315.8	5237.1	5167.6	5100.5
22.5°	6108.6	6097.0	6048.4	6029.9	5967.4	5918.8	5856.3	5776.4	5719.7	5631.7	5569.2
25°	6447.7	6444.2	6421.1	6415.3	6371.3	6325.0	6311.1	6245.1	6193.1	6115.5	6050.7
27.5°	6739.3	6742.8	6737.0	6753.2	6741.6	6720.8	6722.0	6700.0	6669.9	6605.1	6548.4
30°	7063.4	7044.9	7055.3	7078.4	7085.4	7087.7	7125.9	7138.6	7136.3	7093.5	7065.7
32.5°	7521.7	7477.7	7437.2	7433.7	7456.9	7466.2	7531.0	7564.5	7593.5	7603.9	7608.5
35°	8106.2	8018.2	7933.7	7888.6	7849.2	7859.7	7905.9	7960.3	8024.0	8068.0	8120.1
37.5°	8842.3	8734.6	8585.3	8478.8	8452.2	8394.4	8424.4	8467.3	8529.8	8598.1	8688.3
40°	9734.6	9571.4	9403.6	9262.4	9186.0	9079.5	9078.4	9070.3	9108.4	9172.1	9299.4
42.5°	10593.3	10448.7	10270.4	10122.3	10022.8	9880.4	9851.5	9776.2	9793.6	9849.2	9973.0
45°	11397.7	11278.5	11169.7	10998.4	10913.9	10760.0	10711.4	10622.3	10572.5	10598.0	10721.8
47.5°	12176.6	12100.2	11986.8	11875.7	11810.9	11673.2	11610.7	11547.0	11483.4	11481.0	11610.7
50°	13695.1	13654.6	13520.3	13404.6	13435.8	13266.9	13277.3	13106.0	13183.5	13192.8	13464.8
52.5°	15122.1	15263.3	15362.8	15484.4	15563.1	15578.1	15630.2	15707.7	15801.5	15986.7	16239.0
55°	15939.2	16116.3	16219.3	16311.9	16464.6	16497.1	16583.9	16686.9	16769.0	16977.4	17191.5
57.5°	16910.2	17238.9	17398.6	17545.6	17751.6	17830.3	17975.0	18087.3	18193.8	18440.3	18699.5
60°	17508.6	17909.0	18234.3	18466.9	18725.0	18910.2	19128.9	19304.8	19554.8	19849.9	20236.5
62.5°	17032.9	17620.9	18052.6	18451.8	18802.5	19156.7	19470.3	19799.0	20178.6	20625.4	21224.9
65°	15138.3	15736.7	16476.2	16890.6	17354.7	17900.9	18377.8	18910.2	19427.5	20077.9	20964.5
67.5°	12187.0	12882.6	13713.6	14131.4	14664.9	15274.9	15809.6	16460.0	17064.2	17852.3	18948.4
70°	8784.4	9683.7	10382.7	10819.0	11441.7	12070.1	12586.3	13343.2	13843.2	14651.1	15784.1
72.5°	5562.3	6271.8	7128.2	7677.9	8231.2	8867.7	9395.5	10048.2	10514.6	11250.7	12277.3
75°	2990.6	3513.8	4266.0	4788.0	5380.6	5924.5	6542.6	6980.1	7325.0	7907.1	8740.4
77.5°	1401.6	1719.8	2100.6	2502.2	2903.8	3322.8	3730.2	4084.3	4232.5	4565.8	5057.7
80°	850.7	953.7	1064.8	1188.6	1356.4	1491.8	1671.2	1800.9	1810.1	1915.4	2065.9
82.5°	568.3	606.5	640.0	671.3	714.1	747.7	785.8	831.0	849.5	873.8	922.4
85°	387.7	406.2	413.2	432.9	428.2	439.8	454.8	469.9	478.0	476.8	498.8
87.5°	238.4	247.7	252.3	256.9	253.5	248.8	255.8	263.9	266.2	259.2	261.6
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°	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2
2.5°	2121.4	2111.0	2100.6	2093.7	2091.4	2030.0	2003.4	1986.0	1949.0	1918.9	1894.6
5°	2340.2	2318.2	2300.8	2280.0	2268.4	2113.3	2056.6	2017.3	1952.5	1914.3	1879.6
7.5°	2692.0	2630.7	2594.8	2554.3	2519.6	2239.5	2145.8	2084.4	1994.1	1943.2	1903.9
10°	3091.3	3027.7	2971.0	2908.5	2854.1	2407.3	2270.7	2175.8	2056.6	1990.7	1938.6
12.5°	3536.9	3474.4	3402.6	3322.8	3253.3	2620.3	2430.5	2295.1	2131.9	2043.9	1971.0
15°	4063.5	3953.6	3866.8	3774.2	3693.1	2874.9	2616.8	2429.3	2211.7	2092.5	1995.3
17.5°	4553.1	4437.3	4319.3	4238.3	4144.5	3160.8	2804.3	2565.9	2277.7	2123.8	1999.9
20°	5031.1	4904.9	4803.1	4694.3	4595.9	3457.0	3004.5	2686.2	2320.5	2124.9	1971.0
22.5°	5452.3	5373.6	5260.2	5142.2	5042.6	3753.3	3192.0	2788.1	2336.7	2098.3	1920.1
25°	5931.5	5848.2	5709.3	5609.7	5498.6	4055.4	3376.0	2866.8	2327.5	2048.5	1841.4
27.5°	6443.0	6350.5	6208.1	6103.9	5969.7	4369.0	3545.0	2923.5	2292.7	1967.5	1736.0
30°	6976.6	6892.1	6752.1	6646.7	6511.3	4701.2	3733.7	2961.7	2223.3	1855.3	1613.4
32.5°	7549.5	7478.9	7340.0	7230.0	7085.4	5061.1	3909.6	2973.3	2118.0	1722.2	1483.7
35°	8093.4	8044.8	7927.9	7824.9	7674.5	5401.4	4095.9	2967.5	1993.0	1576.3	1365.7
37.5°	8705.7	8676.8	8618.9	8488.1	8304.1	5863.2	4319.3	2943.2	1840.2	1431.7	1275.4
40°	9358.4	9360.8	9298.3	9209.1	9037.8	6423.4	4585.5	2895.7	1673.5	1304.3	1193.2
42.5°	10049.4	10085.3	10055.2	9991.5	9827.2	6988.2	4903.7	2837.9	1511.5	1180.5	1112.2
45°	10841.0	10885.0	10931.3	10837.5	10677.8	7733.5	5322.7	2762.6	1336.8	1077.5	1056.7
47.5°	11754.2	11823.6	11865.3	11866.4	11706.7	8657.1	6003.2	2717.5	1181.7	1008.1	1030.1
50°	13681.2	13703.2	13801.6	13972.8	13850.2	10794.7	7191.9	2689.7	1076.3	965.2	1010.4
52.5°	16457.7	16699.6	16869.7	16858.2	16691.5	12152.3	7846.9	2546.2	1013.9	949.0	1001.1
55°	17588.4	17890.5	18205.3	18288.7	18159.0	13310.8	8466.1	2402.7	983.8	960.6	1004.6
57.5°	19095.3	19604.6	20036.3	20218.0	20030.5	14793.4	9280.9	2327.5	974.5	991.9	1026.6
60°	20855.7	21485.3	22052.4	22378.8	22378.8	16497.1	10125.8	2296.2	961.8	1038.2	1063.6
62.5°	21986.4	22911.2	23767.6	24245.6	24231.7	17683.4	10500.8	2189.7	932.8	1070.6	1114.5
65°	21991.1	23090.6	24181.9	24719.0	24746.7	17537.5	9881.6	1934.0	879.6	1075.2	1165.5
67.5°	20157.8	21330.2	22602.1	23202.8	23341.7	16144.1	8554.1	1590.2	792.8	1028.9	1184.0
70°	17024.8	18169.4	19468.0	20058.3	20304.8	13762.2	6889.8	1225.6	681.7	927.0	1145.8
72.5°	13412.7	14535.3	15439.2	15870.9	16063.0	10519.3	5017.2	925.9	559.0	781.2	1042.8
75°	9496.2	10338.7	10819.0	10915.1	10945.2	6341.2	3048.5	688.6	460.6	607.6	880.8
77.5°	5359.7	5720.8	5681.5	5724.3	5367.9	2447.8	1327.5	493.0	379.6	461.8	682.8
80°	2092.5	2157.3	2026.5	1986.0	1821.7	910.8	585.6	343.7	303.2	349.5	478.0
82.5°	922.4	952.5	924.7	931.7	891.2	469.9	350.7	248.8	231.5	255.8	317.1
85°	508.1	517.3	515.0	530.1	508.1	187.5	166.7	152.8	162.0	173.6	203.7
87.5°	247.7	250.0	241.9	254.6	246.5	94.9	82.2	86.8	94.9	97.2	97.2
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°	1987.2	1987.2	1987.2	1987.2	1987.2	1987.2
2.5°	1877.2	1868.0	1869.1	1866.8	1862.2	1862.2
5°	1861.0	1851.8	1851.8	1849.5	1843.7	1844.8
7.5°	1877.2	1862.2	1856.4	1848.3	1840.2	1840.2
10°	1895.8	1869.1	1852.9	1839.1	1828.6	1828.6
12.5°	1909.6	1868.0	1841.4	1822.8	1812.4	1812.4
15°	1914.3	1859.9	1822.8	1800.9	1791.6	1790.4
17.5°	1899.2	1828.6	1783.5	1758.0	1746.5	1743.0
20°	1852.9	1771.9	1717.5	1688.6	1672.4	1666.6
22.5°	1783.5	1690.9	1627.3	1597.2	1576.3	1572.9
25°	1686.3	1586.7	1524.2	1495.3	1483.7	1480.3
27.5°	1572.9	1480.3	1427.0	1408.5	1398.1	1396.9
30°	1465.2	1386.5	1347.2	1333.3	1320.6	1318.2
32.5°	1364.5	1314.8	1299.7	1280.0	1250.0	1246.5
35°	1292.8	1288.1	1277.7	1233.7	1196.7	1186.3
37.5°	1248.8	1291.6	1238.4	1151.6	1125.0	1122.6
40°	1223.3	1255.7	1164.3	1134.2	1136.5	1134.2
42.5°	1165.5	1199.0	1166.6	1152.7	1162.0	1164.3
45°	1107.6	1144.6	1184.0	1174.7	1196.7	1196.7
47.5°	1075.2	1130.7	1182.8	1182.8	1215.2	1226.8
50°	1038.2	1119.2	1164.3	1180.5	1206.0	1196.7
52.5°	1035.8	1099.5	1137.7	1166.6	1178.2	1167.8
55°	1039.3	1083.3	1111.1	1143.5	1157.4	1158.5
57.5°	1043.9	1074.0	1092.6	1107.6	1149.3	1149.3
60°	1055.5	1065.9	1076.3	1084.4	1138.8	1140.0
62.5°	1074.0	1057.8	1055.5	1063.6	1133.1	1128.4
65°	1103.0	1046.3	1028.9	1037.0	1127.3	1113.4
67.5°	1142.3	1028.9	995.3	1001.1	1122.6	1092.6
70°	1178.2	1001.1	953.7	947.9	1078.7	1025.4
72.5°	1181.7	968.7	895.8	878.4	937.5	886.5
75°	1123.8	946.7	832.1	781.2	774.3	767.3
77.5°	1012.7	934.0	758.1	678.2	664.3	669.0
80°	847.2	886.5	669.0	574.1	649.3	641.2
82.5°	633.1	782.4	568.3	508.1	506.9	447.9
85°	351.8	609.9	462.9	380.8	265.0	256.9
87.5°	98.4	339.1	324.1	215.3	147.0	152.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)