

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: P193958

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193958  
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-10-LED-E1-T2R-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 50086 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

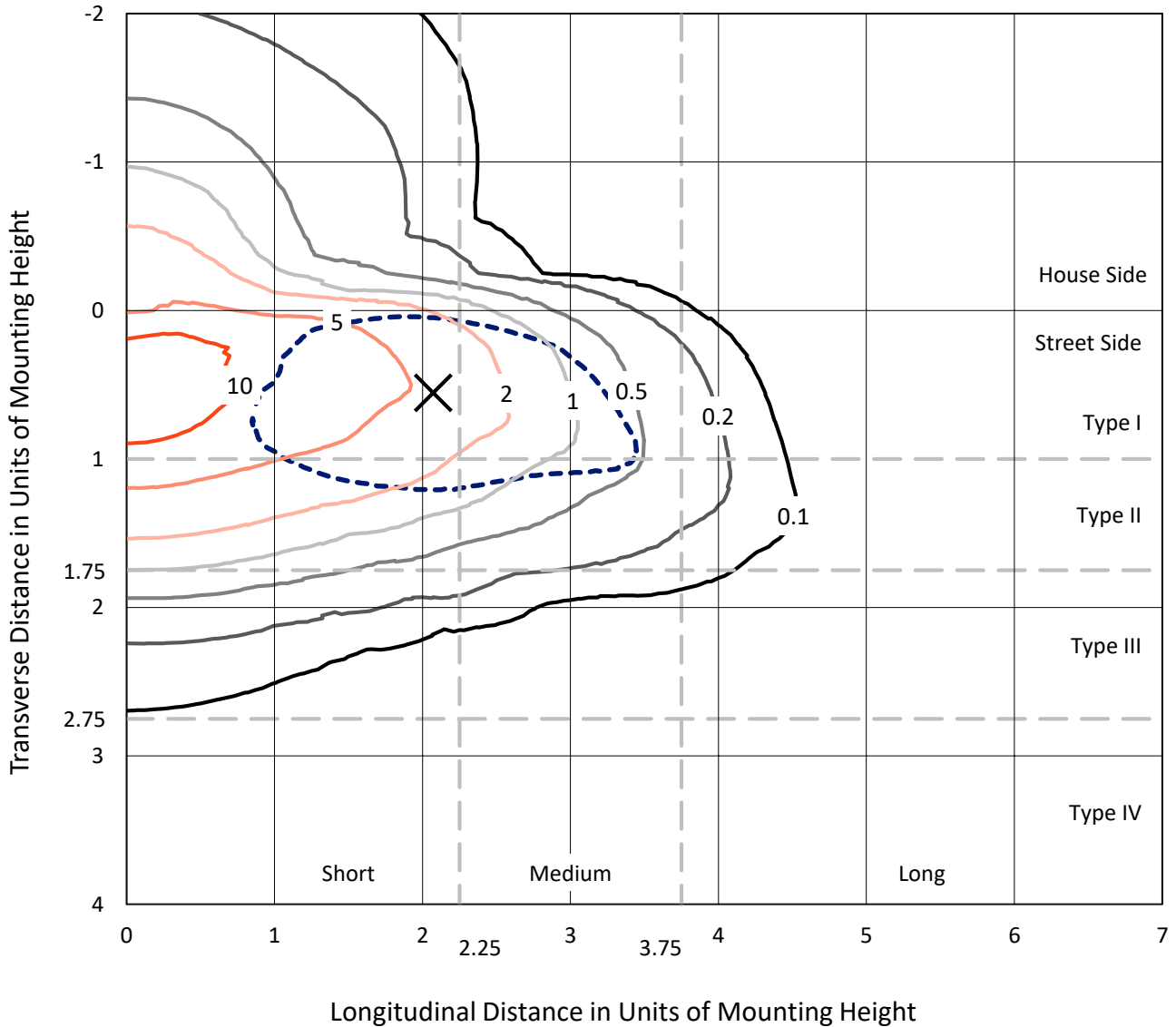
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

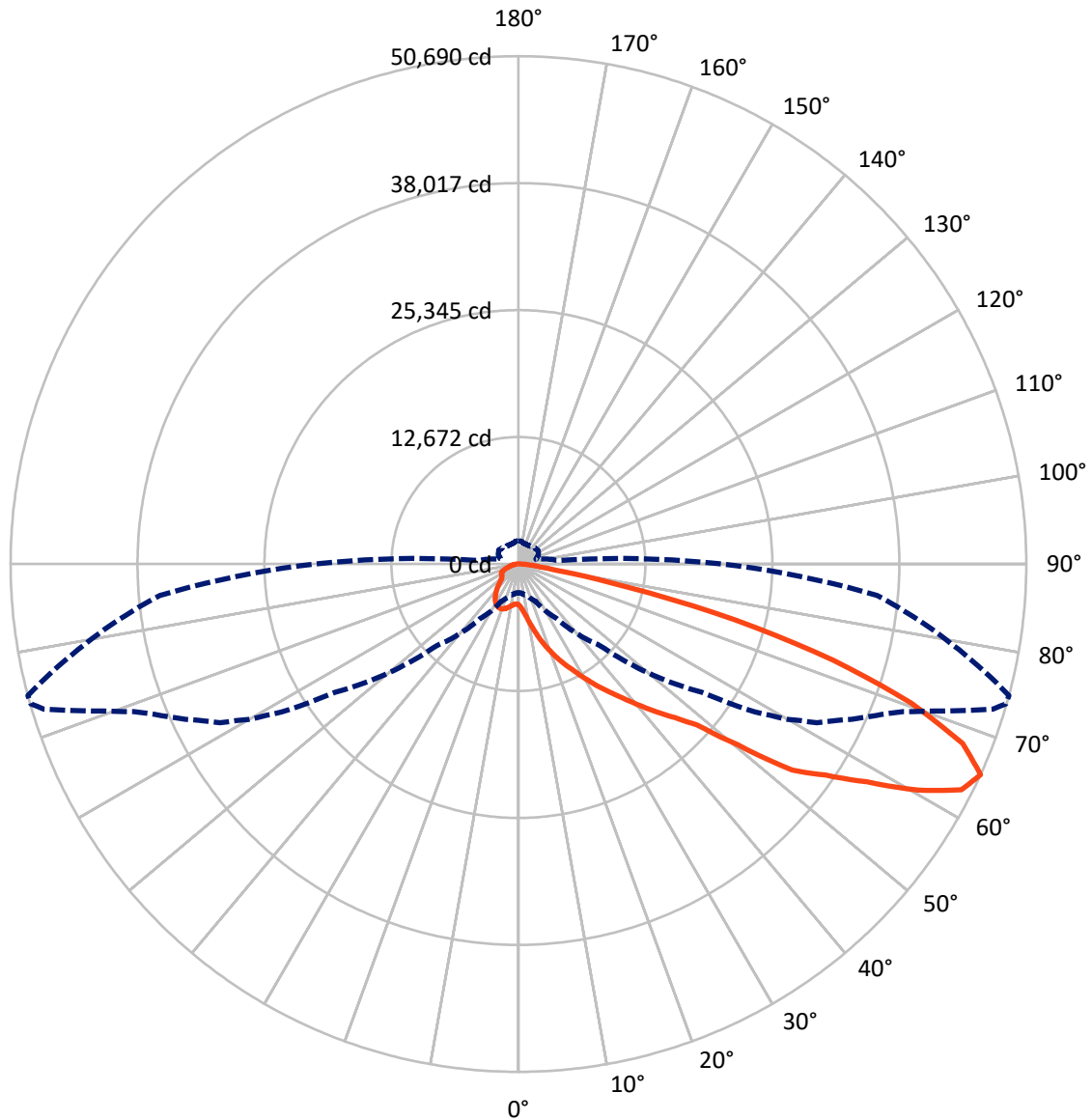
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 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	7722.1	0.0	7722.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	42363.9	0.0	42363.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	50086.0	0.0	50086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.1	1.0
10°-20°	1965.8	3.9
20°-30°	4033.2	8.1
30°-40°	6785.6	13.5
40°-50°	9375.8	18.7
50°-60°	11703.9	23.4
60°-70°	10532.2	21.0
70°-80°	4415.0	8.8
80°-90°	771.3	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°	50086.0	100.0
0°-180°	50086.0	100.0

**Coefficient of Utilization**



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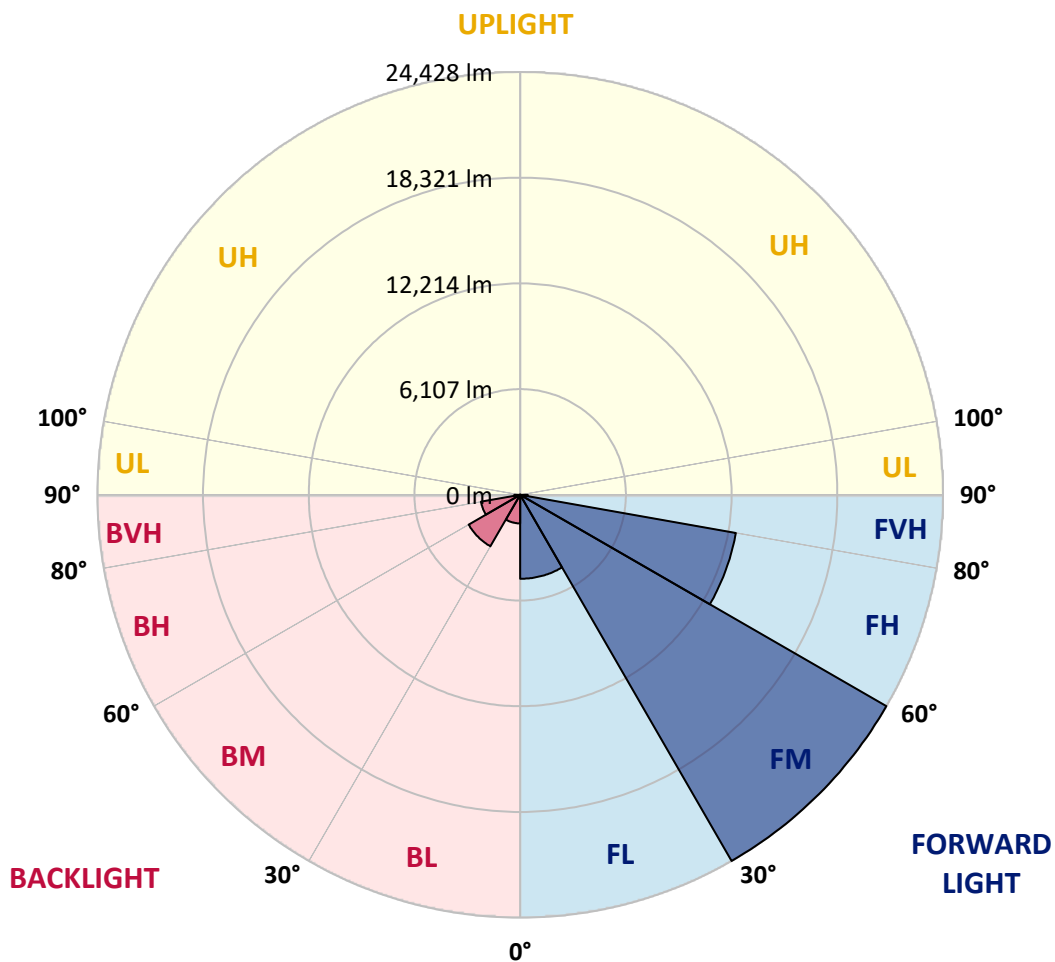
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4850.7	9.7			
FM (30°-60°)	24428.2	48.8			
FH (60°-80°)	12651.6	25.3			G5
FVH (80°-90°)	433.5	0.9			G3/500
BL (0°-30°)	1651.4	3.3	B3/2500		
BM (30°-60°)	3437.2	6.9	B3/5000		
BH (60°-80°)	2295.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	337.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4
2.5°	5168.1	5111.2	5125.4	5030.6	4914.4	4762.7	4594.4	4592.0	4594.4	4577.8	4516.1
5°	7166.5	7097.8	7071.7	6858.4	6545.4	6099.7	5616.1	5564.0	5542.6	5488.1	5362.5
7.5°	8624.5	8586.6	8546.3	8385.1	8100.6	7602.7	6953.2	6841.8	6735.1	6709.0	6566.8
10°	9565.7	9556.2	9470.8	9428.2	9250.4	8818.9	8185.9	8079.3	7963.1	7922.8	7773.4
12.5°	10310.1	10307.7	10267.4	10279.2	10125.1	9812.2	9267.0	9169.8	9084.4	8961.1	8854.5
15°	10824.5	10826.9	10886.1	10952.5	10928.8	10717.8	10205.7	10163.1	10089.6	10004.2	9878.6
17.5°	11246.5	11258.3	11320.0	11440.9	11571.3	11554.7	11149.3	11113.7	11049.7	10933.5	10867.2
20°	12199.5	12244.5	12126.0	12126.0	12140.2	12204.2	12009.8	11981.4	11891.3	11829.7	11777.5
22.5°	13809.2	13861.3	13593.4	13320.8	13052.9	12858.5	12664.1	12699.7	12638.1	12595.4	12564.6
25°	15900.1	15940.4	15506.6	15046.7	14501.4	13790.2	13309.0	13287.6	13254.4	13228.4	13214.1
27.5°	17867.8	17884.4	17474.2	16801.0	16168.0	15146.2	13963.3	13937.2	13896.9	13847.1	13804.4
30°	19550.9	19546.2	19124.2	18481.8	17803.8	16672.9	14956.6	14876.0	14757.4	14622.3	14518.0
32.5°	21008.9	21001.8	20539.5	19873.4	19162.1	18185.4	16317.3	16151.4	15966.5	15703.3	15544.5
35°	22156.3	22151.6	21715.4	21020.8	20205.2	19610.2	17877.2	17673.4	17438.7	17085.4	16841.3
37.5°	22590.1	22590.1	22346.0	21871.8	21151.1	20743.4	19610.2	19363.7	19112.4	18711.7	18436.7
40°	22336.5	22341.2	22393.4	22305.7	21954.8	21641.9	21227.0	21080.0	20864.3	20504.0	20217.1
42.5°	21485.4	21511.5	21857.6	22282.0	22457.4	22407.6	22661.3	22594.9	22443.2	22165.8	21938.2
45°	20406.8	20487.4	20866.7	21668.0	22597.3	23069.0	23863.2	23870.3	23841.9	23692.5	23517.1
47.5°	18925.1	19038.9	19539.1	20622.5	22270.1	23711.5	25084.1	25148.1	25207.4	25110.2	25029.6
50°	16957.4	17092.6	17841.7	19278.3	21603.9	24377.6	27390.8	27680.0	27950.2	27917.0	27971.6
52.5°	14849.9	15008.7	15926.2	17526.4	20458.9	24531.7	28865.3	29337.1	29808.8	30195.3	30605.4
55°	12948.6	12863.3	13780.7	15466.3	18576.6	23837.1	30190.5	30759.5	31285.8	31759.9	32248.3
57.5°	10371.7	10511.6	11431.4	13098.0	16085.0	21876.6	31103.2	31935.3	32691.6	33476.3	34168.5
60°	7581.4	7721.3	8719.3	10412.0	13380.1	18903.7	30406.3	31667.5	32878.9	34080.8	35019.6
62.5°	4577.8	4682.1	5561.6	7173.7	10317.2	15378.6	27300.7	28955.4	30738.1	32174.8	33613.8
65°	2849.5	2908.8	3233.6	4120.2	6626.0	11481.2	22305.7	24109.7	26030.0	27853.0	29348.9
67.5°	2332.7	2354.1	2413.3	2603.0	3639.0	7486.6	16601.8	18199.7	19932.6	21696.4	23360.6
70°	2098.0	2083.8	2083.8	2095.7	2332.7	4025.4	10869.5	11910.3	13354.0	14887.8	16409.8
72.5°	1894.2	1879.9	1853.9	1818.3	1903.7	2456.0	5618.5	6403.2	7443.9	8807.1	10265.0
75°	1702.1	1683.2	1652.4	1607.3	1666.6	1853.9	2697.8	3027.3	3534.7	4260.1	5073.2
77.5°	1503.0	1479.3	1450.9	1417.7	1493.5	1441.4	1581.2	1699.8	1894.2	2126.5	2432.3
80°	1277.8	1256.5	1247.0	1230.4	1320.5	1097.6	1116.6	1190.1	1303.9	1429.5	1571.8
82.5°	1000.4	1000.4	1038.4	1045.5	1145.0	789.4	834.5	898.5	957.8	1024.1	1090.5
85°	659.0	663.8	791.8	841.6	903.2	531.0	625.9	647.2	694.6	732.5	761.0
87.5°	206.2	222.8	483.6	535.8	519.2	301.1	384.0	393.5	426.7	452.8	476.5
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4
2.5°	4516.1	4487.7	4461.6	4459.2	4440.3	4414.2	4423.7	4383.4	4385.7	4364.4	4340.7
5°	5310.3	5291.3	5196.5	5170.4	5099.3	5054.3	5047.2	4952.3	4940.5	4886.0	4826.7
7.5°	6453.0	6391.3	6258.6	6194.6	6073.7	5983.6	5940.9	5815.3	5753.6	5611.4	5547.4
10°	7650.2	7571.9	7408.4	7318.3	7202.1	7057.5	6979.3	6796.7	6725.6	6595.2	6438.7
12.5°	8759.6	8681.4	8513.1	8444.3	8290.2	8136.1	8050.8	7844.6	7752.1	7543.5	7420.2
15°	9786.1	9707.9	9560.9	9489.8	9335.7	9210.1	9096.3	8892.4	8783.3	8588.9	8427.7
17.5°	10781.8	10698.8	10570.8	10506.8	10357.5	10229.5	10106.2	9914.2	9802.7	9608.3	9463.7
20°	11706.4	11644.7	11552.3	11466.9	11317.6	11201.4	11054.4	10888.5	10727.3	10585.1	10447.6
22.5°	12512.4	12488.7	12389.1	12351.2	12223.2	12123.6	11995.6	11832.0	11715.9	11535.7	11407.7
25°	13207.0	13199.9	13152.5	13140.6	13050.6	12955.7	12927.3	12792.2	12685.5	12526.6	12393.9
27.5°	13804.4	13811.5	13799.7	13832.9	13809.2	13766.5	13768.9	13723.8	13662.2	13529.4	13413.3
30°	14468.2	14430.3	14451.6	14499.0	14513.3	14518.0	14596.2	14622.3	14617.6	14529.9	14473.0
32.5°	15407.0	15316.9	15233.9	15226.8	15274.2	15293.2	15426.0	15494.7	15554.0	15575.3	15584.8
35°	16604.2	16424.0	16251.0	16158.5	16077.9	16099.2	16194.1	16305.5	16435.9	16526.0	16632.6
37.5°	18111.9	17891.5	17585.7	17367.6	17313.0	17194.5	17256.1	17343.8	17471.9	17611.7	17796.6
40°	19939.7	19605.5	19261.7	18972.5	18816.0	18597.9	18595.6	18579.0	18657.2	18787.6	19048.4
42.5°	21698.8	21402.4	21037.4	20733.9	20530.0	20238.4	20179.2	20025.1	20060.6	20174.4	20428.1
45°	23346.4	23102.2	22879.4	22528.5	22355.4	22040.1	21940.6	21758.0	21656.1	21708.3	21961.9
47.5°	24941.9	24785.4	24553.1	24325.5	24192.7	23910.6	23782.6	23652.2	23521.8	23517.1	23782.6
50°	28052.2	27969.2	27694.2	27457.1	27521.1	27175.0	27196.4	26845.5	27004.3	27023.3	27580.4
52.5°	30975.2	31264.4	31468.3	31717.2	31878.4	31909.3	32015.9	32174.8	32366.8	32746.1	33262.9
55°	32648.9	33011.6	33222.6	33412.3	33725.2	33791.6	33969.4	34180.4	34348.7	34775.4	35214.0
57.5°	34637.9	35311.2	35638.3	35939.4	36361.4	36522.6	36818.9	37048.9	37267.0	37771.9	38303.0
60°	35863.5	36683.8	37350.0	37826.5	38355.1	38734.4	39182.5	39542.8	40054.9	40659.4	41451.2
62.5°	34889.2	36093.5	36977.8	37795.6	38514.0	39239.4	39881.8	40555.1	41332.7	42247.8	43475.8
65°	31008.4	32234.0	33748.9	34597.6	35548.2	36667.2	37643.9	38734.4	39794.1	41126.4	42942.4
67.5°	24963.2	26388.0	28090.1	28945.9	30038.8	31288.1	32383.4	33715.7	34953.2	36567.6	38812.7
70°	17993.4	19835.4	21267.3	22161.1	23436.5	24723.7	25781.1	27331.5	28355.6	30010.3	32331.2
72.5°	11393.5	12846.7	14601.0	15727.0	16860.2	18164.1	19245.1	20582.2	21537.6	23045.3	25148.1
75°	6125.8	7197.4	8738.3	9807.5	11021.3	12135.5	13401.4	14297.5	15004.0	16196.4	17903.3
77.5°	2870.9	3522.8	4302.8	5125.4	5948.0	6806.2	7640.7	8366.1	8669.6	9352.3	10359.8
80°	1742.4	1953.4	2181.0	2434.7	2778.4	3055.8	3423.3	3688.8	3707.7	3923.5	4231.7
82.5°	1164.0	1242.2	1311.0	1375.0	1462.7	1531.5	1609.7	1702.1	1740.1	1789.9	1889.4
85°	794.2	832.1	846.3	886.6	877.1	900.9	931.7	962.5	979.1	976.7	1021.8
87.5°	488.4	507.3	516.8	526.3	519.2	509.7	523.9	540.5	545.3	531.0	535.8
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°	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4
2.5°	4345.4	4324.1	4302.8	4288.5	4283.8	4158.2	4103.6	4068.1	3992.2	3930.6	3880.8
5°	4793.5	4748.5	4712.9	4670.2	4646.5	4328.8	4212.7	4132.1	3999.3	3921.1	3850.0
7.5°	5514.2	5388.5	5315.0	5232.1	5161.0	4587.3	4395.2	4269.6	4084.7	3980.4	3899.8
10°	6332.1	6201.7	6085.5	5957.5	5846.1	4931.0	4651.3	4456.9	4212.7	4077.6	3970.9
12.5°	7244.8	7116.8	6969.8	6806.2	6664.0	5367.2	4978.4	4701.0	4366.8	4186.6	4037.3
15°	8323.4	8098.2	7920.4	7730.8	7564.8	5888.8	5360.1	4976.0	4530.4	4286.2	4087.0
17.5°	9326.2	9089.2	8847.4	8681.4	8489.4	6474.3	5744.1	5255.8	4665.5	4350.2	4096.5
20°	10305.3	10046.9	9838.3	9615.4	9413.9	7081.2	6154.3	5502.3	4753.2	4352.6	4037.3
22.5°	11168.2	11007.0	10774.7	10532.9	10329.0	7688.1	6538.3	5711.0	4786.4	4298.0	3932.9
25°	12149.7	11979.0	11694.5	11490.7	11263.1	8306.8	6915.3	5872.2	4767.4	4196.1	3771.7
27.5°	13197.5	13007.9	12716.3	12502.9	12227.9	8949.3	7261.4	5988.3	4696.3	4030.1	3556.0
30°	14290.4	14117.4	13830.5	13614.8	13337.4	9629.7	7647.8	6066.6	4554.1	3800.2	3304.7
32.5°	15463.9	15319.3	15034.8	14809.6	14513.3	10367.0	8008.1	6090.3	4338.3	3527.6	3039.2
35°	16578.1	16478.5	16239.1	16028.1	15719.9	11063.9	8389.8	6078.4	4082.3	3228.9	2797.4
37.5°	17832.2	17772.9	17654.4	17386.5	17009.6	12009.8	8847.4	6028.6	3769.4	2932.5	2612.5
40°	19169.3	19174.0	19046.0	18863.4	18512.6	13157.2	9392.6	5931.4	3428.0	2671.7	2444.2
42.5°	20584.6	20658.0	20596.4	20466.0	20129.4	14314.1	10044.5	5812.9	3096.1	2418.1	2278.2
45°	22206.1	22296.2	22391.0	22199.0	21871.8	15840.8	10902.7	5658.8	2738.1	2207.1	2164.4
47.5°	24076.6	24218.8	24304.1	24306.5	23979.4	17732.6	12296.7	5566.3	2420.5	2064.9	2109.9
50°	28023.7	28068.8	28270.3	28621.1	28369.8	22111.3	14731.4	5509.4	2204.7	1977.1	2069.6
52.5°	33711.0	34206.4	34554.9	34531.2	34189.8	24892.1	16073.2	5215.5	2076.7	1944.0	2050.6
55°	36027.1	36645.9	37290.7	37461.4	37195.9	27265.1	17341.5	4921.5	2015.1	1967.7	2057.7
57.5°	39113.7	40156.8	41041.1	41413.3	41029.2	30301.9	19010.4	4767.4	1996.1	2031.7	2102.8
60°	42719.5	44009.2	45170.8	45839.3	45839.3	33791.6	20741.0	4703.4	1970.0	2126.5	2178.6
62.5°	45035.7	46929.8	48684.1	49663.2	49634.8	36221.5	21509.1	4485.3	1910.8	2192.9	2283.0
65°	45045.2	47297.3	49532.8	50632.8	50689.7	35922.8	20240.8	3961.4	1801.7	2202.4	2387.3
67.5°	41290.0	43691.5	46296.9	47527.3	47811.7	33068.5	17521.6	3257.3	1623.9	2107.5	2425.2
70°	34872.6	37217.2	39877.1	41086.1	41591.1	28189.7	14112.6	2510.5	1396.3	1898.9	2347.0
72.5°	27473.7	29773.3	31624.8	32509.0	32902.6	21547.0	10276.9	1896.5	1145.0	1600.2	2136.0
75°	19451.4	21177.2	22161.1	22357.8	22419.5	12988.9	6244.4	1410.6	943.5	1244.6	1804.1
77.5°	10978.6	11718.2	11637.6	11725.3	10995.2	5014.0	2719.2	1009.9	777.6	945.9	1398.7
80°	4286.2	4418.9	4151.0	4068.1	3731.4	1865.7	1199.6	704.1	621.1	715.9	979.1
82.5°	1889.4	1951.1	1894.2	1908.4	1825.4	962.5	718.3	509.7	474.1	523.9	649.6
85°	1040.7	1059.7	1054.9	1085.8	1040.7	384.0	341.4	312.9	331.9	355.6	417.2
87.5°	507.3	512.1	495.5	521.5	505.0	194.4	168.3	177.8	194.4	199.1	199.1
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°	4070.4	4070.4	4070.4	4070.4	4070.4	4070.4
2.5°	3845.2	3826.3	3828.6	3823.9	3814.4	3814.4
5°	3812.0	3793.1	3793.1	3788.3	3776.5	3778.9
7.5°	3845.2	3814.4	3802.6	3786.0	3769.4	3769.4
10°	3883.2	3828.6	3795.4	3767.0	3745.7	3745.7
12.5°	3911.6	3826.3	3771.7	3733.8	3712.5	3712.5
15°	3921.1	3809.7	3733.8	3688.8	3669.8	3667.4
17.5°	3890.3	3745.7	3653.2	3601.1	3577.3	3570.2
20°	3795.4	3629.5	3518.1	3458.8	3425.6	3413.8
22.5°	3653.2	3463.6	3333.2	3271.5	3228.9	3221.7
25°	3454.1	3250.2	3122.2	3062.9	3039.2	3032.1
27.5°	3221.7	3032.1	2923.0	2885.1	2863.8	2861.4
30°	3001.3	2840.1	2759.5	2731.0	2704.9	2700.2
32.5°	2795.0	2693.1	2662.3	2622.0	2560.3	2553.2
35°	2648.0	2638.6	2617.2	2527.1	2451.3	2429.9
37.5°	2558.0	2645.7	2536.6	2358.8	2304.3	2299.6
40°	2505.8	2572.2	2384.9	2323.3	2328.0	2323.3
42.5°	2387.3	2456.0	2389.6	2361.2	2380.2	2384.9
45°	2268.7	2344.6	2425.2	2406.2	2451.3	2451.3
47.5°	2202.4	2316.1	2422.8	2422.8	2489.2	2512.9
50°	2126.5	2292.4	2384.9	2418.1	2470.2	2451.3
52.5°	2121.8	2252.1	2330.4	2389.6	2413.3	2392.0
55°	2128.9	2218.9	2275.8	2342.2	2370.7	2373.0
57.5°	2138.3	2200.0	2237.9	2268.7	2354.1	2354.1
60°	2162.1	2183.4	2204.7	2221.3	2332.7	2335.1
62.5°	2200.0	2166.8	2162.1	2178.6	2320.9	2311.4
65°	2259.3	2143.1	2107.5	2124.1	2309.0	2280.6
67.5°	2339.9	2107.5	2038.8	2050.6	2299.6	2237.9
70°	2413.3	2050.6	1953.4	1941.6	2209.5	2100.4
72.5°	2420.5	1984.3	1834.9	1799.3	1920.2	1815.9
75°	2301.9	1939.2	1704.5	1600.2	1586.0	1571.8
77.5°	2074.3	1913.1	1552.8	1389.2	1360.8	1370.2
80°	1735.3	1815.9	1370.2	1175.9	1329.9	1313.4
82.5°	1296.8	1602.6	1164.0	1040.7	1038.4	917.5
85°	720.7	1249.3	948.3	780.0	542.9	526.3
87.5°	201.5	694.6	663.8	440.9	301.1	312.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)