

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: P269501

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269501  
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-07-LED-E1-T2R-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 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: 38109 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

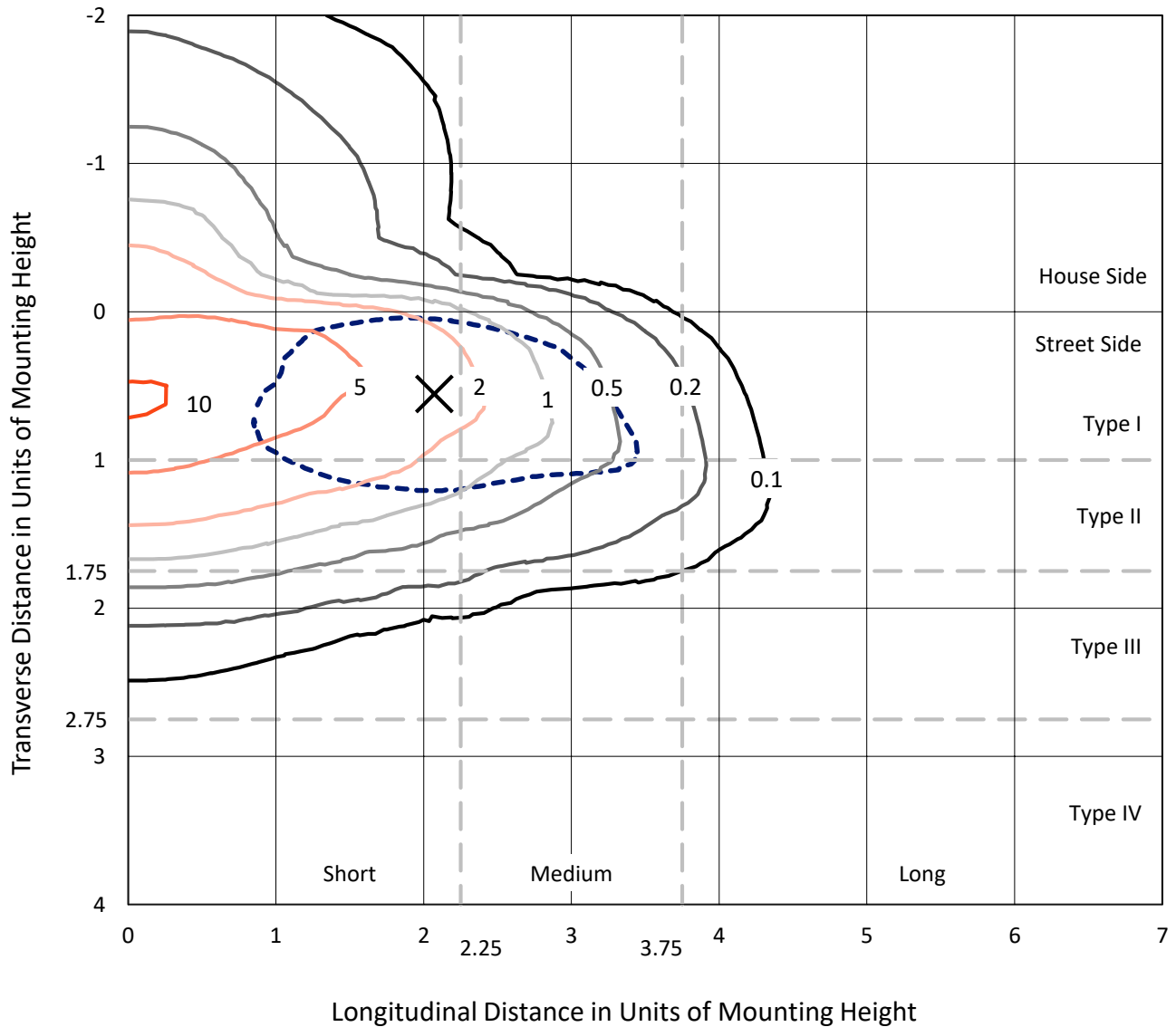
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

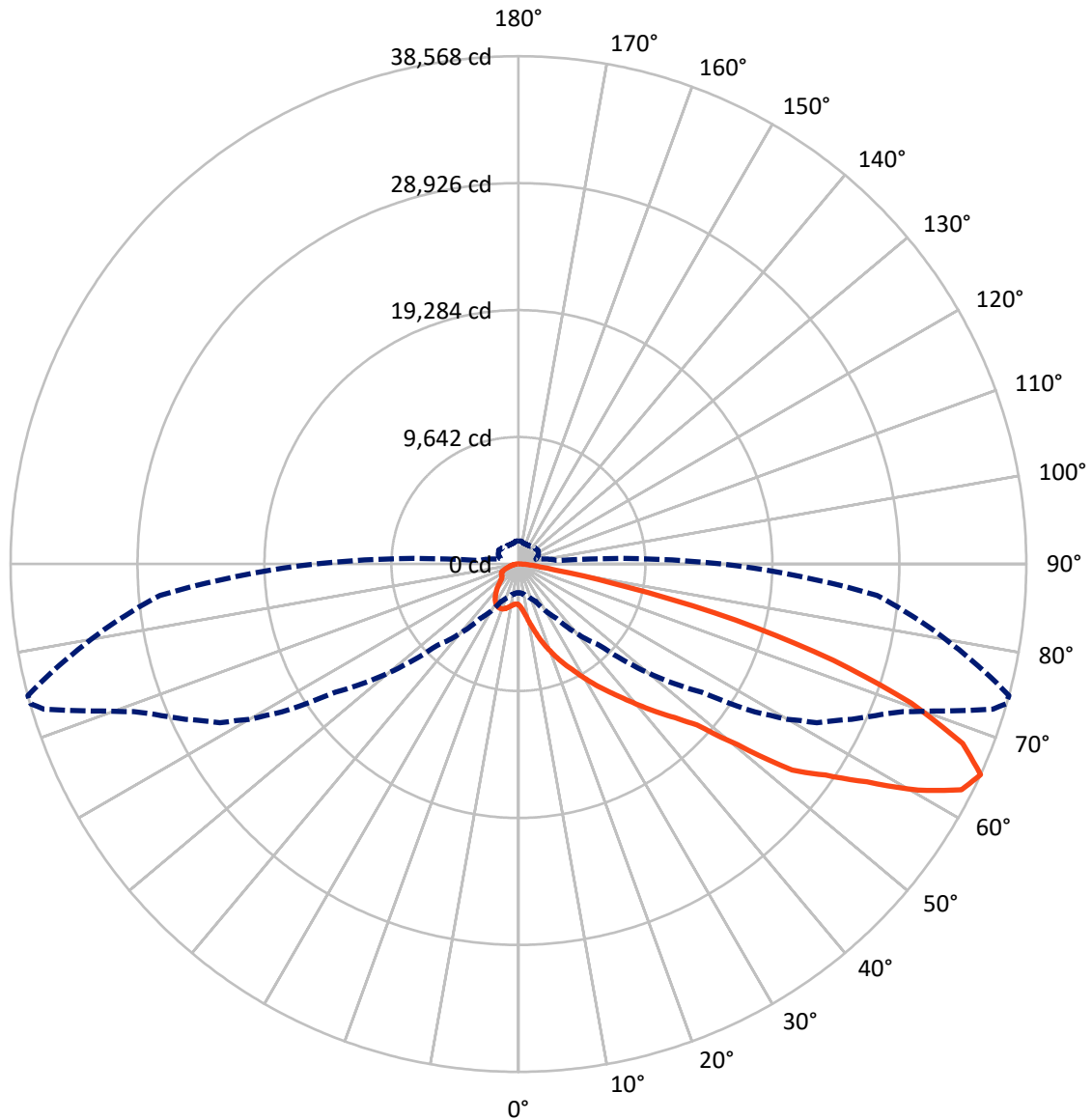
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	5875.5	0.0	5875.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	32233.4	0.0	32233.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	38109.0	0.0	38109.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.8	1.0
10°-20°	1495.7	3.9
20°-30°	3068.7	8.1
30°-40°	5163.0	13.5
40°-50°	7133.8	18.7
50°-60°	8905.1	23.4
60°-70°	8013.7	21.0
70°-80°	3359.3	8.8
80°-90°	586.9	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°	38109.0	100.0
0°-180°	38109.0	100.0



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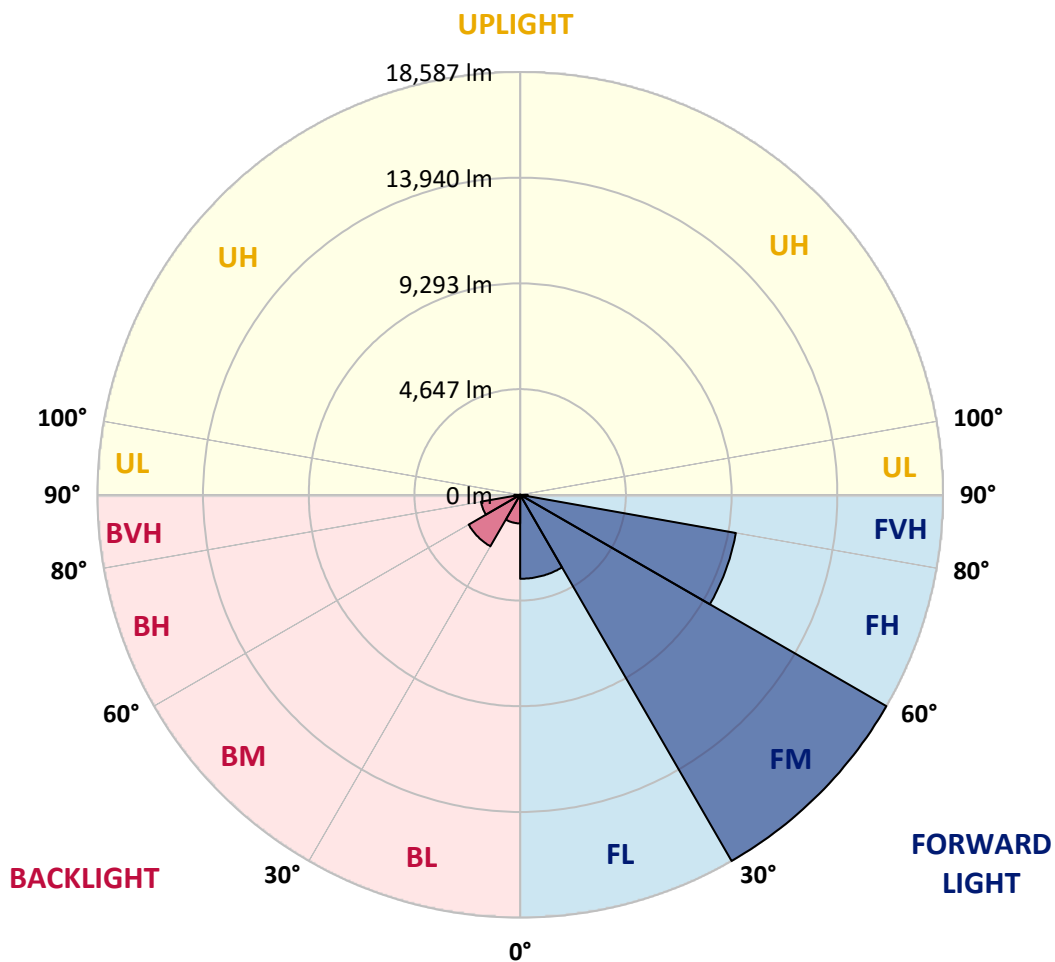
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3690.7	9.7			
FM	(30°-60°)	18586.6	48.8			
FH	(60°-80°)	9626.2	25.3			G4/12000
FVH	(80°-90°)	329.9	0.9			G3/500
BL	(0°-30°)	1256.5	3.3	B3/2500		
BM	(30°-60°)	2615.3	6.9	B3/5000		
BH	(60°-80°)	1746.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	257.0	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0
2.5°	3932.2	3888.9	3899.7	3827.6	3739.3	3623.9	3495.8	3493.9	3495.8	3483.1	3436.1
5°	5452.8	5400.5	5380.7	5218.3	4980.3	4641.2	4273.1	4233.4	4217.3	4175.7	4080.1
7.5°	6562.1	6533.3	6502.7	6379.9	6163.5	5784.7	5290.5	5205.7	5124.6	5104.7	4996.5
10°	7278.2	7271.1	7206.1	7173.7	7038.3	6710.0	6228.5	6147.3	6058.9	6028.3	5914.6
12.5°	7844.5	7842.8	7812.1	7821.2	7704.0	7465.9	7050.9	6977.0	6912.1	6818.2	6737.1
15°	8236.0	8237.8	8282.9	8333.4	8315.4	8154.9	7765.3	7732.8	7676.8	7612.0	7516.3
17.5°	8557.2	8566.1	8612.9	8705.0	8804.2	8791.6	8483.1	8456.0	8407.3	8319.1	8268.4
20°	9282.2	9316.5	9226.3	9226.3	9237.1	9285.8	9137.9	9116.3	9047.6	9000.8	8961.1
22.5°	10506.9	10546.7	10342.8	10135.3	9931.7	9783.7	9635.8	9662.8	9615.9	9583.5	9560.0
25°	12098.0	12128.6	11798.5	11448.5	11033.7	10492.6	10126.5	10110.2	10084.9	10065.1	10054.2
27.5°	13595.0	13607.6	13295.6	12783.4	12301.7	11524.4	10624.3	10604.4	10573.7	10535.9	10503.4
30°	14875.8	14872.1	14551.0	14062.2	13546.4	12686.0	11380.0	11318.7	11228.5	11125.7	11046.3
32.5°	15985.1	15979.6	15628.0	15121.1	14579.9	13836.8	12415.4	12289.2	12148.4	11948.1	11827.4
35°	16858.1	16854.4	16522.5	15994.1	15373.6	14920.8	13602.2	13447.2	13268.5	12999.8	12814.1
37.5°	17188.2	17188.2	17002.4	16641.6	16093.2	15783.0	14920.8	14733.2	14542.0	14237.1	14027.9
40°	16995.2	16998.7	17038.4	16971.7	16704.7	16466.7	16150.9	16039.1	15875.0	15600.9	15382.5
42.5°	16347.6	16367.5	16630.9	16953.7	17087.2	17049.3	17242.2	17191.9	17076.3	16865.3	16692.1
45°	15526.9	15588.2	15876.9	16486.6	17193.6	17552.5	18156.8	18162.2	18140.6	18026.9	17893.5
47.5°	14399.6	14486.1	14866.7	15691.1	16944.6	18041.4	19085.7	19134.4	19179.5	19105.6	19044.2
50°	12902.4	13005.2	13575.1	14668.3	16437.8	18548.3	20840.8	21060.9	21266.6	21241.2	21282.7
52.5°	11298.8	11419.8	12117.7	13335.2	15566.5	18665.4	21962.8	22321.8	22680.6	22974.7	23286.8
55°	9852.3	9787.4	10485.3	11767.8	14134.4	18137.0	22971.1	23404.0	23804.5	24165.1	24536.8
57.5°	7891.5	7997.9	8697.7	9965.8	12238.6	16645.2	23665.6	24298.7	24874.1	25471.1	25997.8
60°	5768.5	5874.8	6634.3	7922.2	10180.5	14383.3	23135.2	24094.9	25016.5	25931.1	26645.3
62.5°	3483.1	3562.5	4231.6	5458.2	7850.0	11701.1	20772.2	22031.3	23387.7	24480.8	25575.7
65°	2168.1	2213.2	2460.4	3134.9	5041.6	8735.7	16971.7	18344.4	19805.4	21192.5	22330.7
67.5°	1775.0	1791.1	1836.2	1980.6	2768.8	5696.3	12631.8	13847.6	15166.2	16508.2	17774.5
70°	1596.4	1585.5	1585.5	1594.5	1775.0	3062.9	8270.3	9062.2	10160.6	11327.6	12485.7
72.5°	1441.2	1430.5	1410.6	1383.5	1448.4	1868.7	4274.9	4872.0	5663.9	6701.0	7810.4
75°	1295.0	1280.7	1257.3	1223.0	1268.0	1410.6	2052.6	2303.4	2689.4	3241.4	3860.0
77.5°	1143.6	1125.5	1103.8	1078.7	1136.4	1096.7	1203.1	1293.3	1441.2	1617.9	1850.7
80°	972.2	955.9	948.8	936.2	1004.8	835.2	849.5	905.5	992.1	1087.7	1196.0
82.5°	761.3	761.3	790.1	795.4	871.3	600.6	634.9	683.6	728.7	779.2	829.8
85°	501.4	505.0	602.5	640.3	687.3	404.1	476.2	492.5	528.6	557.4	579.0
87.5°	156.9	169.6	367.9	407.7	395.1	229.1	292.2	299.4	324.6	344.5	362.6
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°	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0
2.5°	3436.1	3414.5	3394.8	3392.9	3378.4	3358.7	3365.9	3335.1	3336.9	3320.8	3302.7
5°	4040.4	4026.1	3953.9	3934.0	3879.9	3845.6	3840.3	3768.1	3759.0	3717.5	3672.5
7.5°	4909.9	4863.0	4761.9	4713.2	4621.3	4552.7	4520.2	4424.6	4377.8	4269.6	4220.9
10°	5820.7	5761.3	5636.9	5568.2	5479.9	5369.9	5310.3	5171.5	5117.4	5018.1	4899.0
12.5°	6665.0	6605.4	6477.4	6425.0	6307.8	6190.6	6125.6	5968.7	5898.4	5739.6	5645.8
15°	7446.1	7386.5	7274.7	7220.4	7103.3	7007.7	6921.1	6765.9	6683.0	6535.1	6412.5
17.5°	8203.6	8140.4	8043.1	7994.3	7880.7	7783.3	7689.5	7543.3	7458.5	7310.6	7200.6
20°	8907.1	8860.2	8789.7	8724.9	8611.2	8522.8	8411.0	8284.8	8162.1	8053.8	7949.2
22.5°	9520.3	9502.4	9426.5	9397.7	9300.2	9224.5	9127.0	9002.6	8914.3	8777.2	8679.8
25°	10048.8	10043.4	10007.4	9998.3	9929.8	9857.6	9836.0	9733.1	9652.0	9531.1	9430.1
27.5°	10503.4	10508.8	10499.7	10525.0	10506.9	10474.5	10476.4	10442.1	10395.1	10294.1	10205.7
30°	11008.4	10979.5	10995.9	11031.8	11042.8	11046.3	11105.8	11125.7	11122.0	11055.4	11012.1
32.5°	11722.7	11654.3	11591.1	11585.6	11621.7	11636.1	11737.2	11789.4	11834.6	11850.8	11858.0
35°	12633.7	12496.5	12364.9	12294.6	12233.2	12249.5	12321.6	12406.3	12505.6	12574.1	12655.3
37.5°	13780.9	13613.0	13380.4	13214.4	13172.9	13082.7	13129.6	13196.5	13293.8	13400.2	13541.0
40°	15171.6	14917.3	14655.7	14435.7	14316.6	14150.6	14148.8	14136.2	14195.7	14294.9	14493.3
42.5°	16509.9	16284.5	16006.7	15775.9	15620.6	15398.8	15353.7	15236.5	15263.6	15350.1	15543.2
45°	17763.5	17577.8	17408.3	17141.3	17009.5	16769.6	16693.9	16555.0	16477.5	16517.1	16710.2
47.5°	18977.6	18858.5	18681.7	18508.6	18407.4	18192.8	18095.5	17996.3	17897.0	17893.5	18095.5
50°	21344.1	21280.9	21071.7	20891.3	20940.0	20676.6	20692.8	20425.9	20546.8	20561.2	20985.1
52.5°	23568.1	23788.1	23943.3	24132.6	24255.3	24278.9	24360.0	24480.8	24626.9	24915.6	25308.8
55°	24841.5	25117.6	25278.1	25422.5	25660.5	25711.0	25846.4	26006.8	26134.8	26459.5	26793.2
57.5°	26355.0	26867.2	27116.1	27345.2	27666.3	27789.0	28014.5	28189.4	28355.4	28739.6	29143.6
60°	27287.5	27911.6	28418.5	28781.1	29183.2	29472.0	29812.8	30087.0	30476.5	30936.5	31539.0
62.5°	26546.2	27462.4	28135.3	28757.6	29304.1	29856.1	30344.9	30857.1	31448.9	32145.0	33079.5
65°	23593.4	24526.0	25678.5	26324.3	27047.5	27899.0	28642.2	29472.0	30278.2	31291.9	32673.6
67.5°	18993.8	20077.7	21373.0	22024.0	22855.7	23806.3	24639.6	25653.3	26595.0	27823.3	29531.4
70°	13690.7	15092.2	16181.7	16861.6	17832.2	18811.5	19616.1	20795.8	21575.0	22833.9	24599.8
72.5°	8669.0	9774.6	11109.5	11966.2	12828.4	13820.6	14643.0	15660.4	16387.3	17534.5	19134.4
75°	4660.9	5476.2	6648.7	7462.2	8385.8	9233.5	10196.8	10878.6	11416.1	12323.4	13622.1
77.5°	2184.4	2680.5	3273.9	3899.7	4525.8	5178.5	5813.7	6365.5	6596.4	7116.0	7882.4
80°	1325.8	1486.3	1659.4	1852.5	2114.0	2325.1	2604.6	2806.7	2821.0	2985.2	3219.7
82.5°	885.6	945.1	997.5	1046.2	1112.9	1165.2	1224.7	1295.0	1324.0	1361.8	1437.6
85°	604.3	633.1	643.9	674.5	667.4	685.4	708.9	732.4	745.0	743.2	777.5
87.5°	371.5	386.0	393.2	400.5	395.1	387.8	398.7	411.2	414.8	404.1	407.7
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°	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0
2.5°	3306.3	3290.1	3273.9	3263.1	3259.4	3163.8	3122.2	3095.3	3037.6	2990.6	2952.8
5°	3647.2	3613.0	3585.9	3553.4	3535.4	3293.6	3205.3	3144.0	3043.0	2983.5	2929.4
7.5°	4195.5	4100.0	4044.1	3980.8	3926.9	3490.4	3344.2	3248.6	3107.9	3028.5	2967.2
10°	4817.9	4718.6	4630.4	4532.8	4448.0	3751.9	3539.1	3391.1	3205.3	3102.4	3021.3
12.5°	5512.3	5415.0	5303.1	5178.5	5070.5	4083.8	3788.0	3577.0	3322.6	3185.5	3071.8
15°	6333.1	6161.7	6026.4	5882.1	5755.8	4480.6	4078.3	3786.1	3447.1	3261.2	3109.8
17.5°	7096.0	6915.7	6731.7	6605.4	6459.4	4926.1	4370.6	3999.0	3549.8	3310.0	3116.8
20°	7841.0	7644.3	7485.7	7316.2	7162.7	5387.9	4682.7	4186.6	3616.5	3311.7	3071.8
22.5°	8497.5	8374.9	8198.1	8014.1	7859.0	5849.7	4974.9	4345.3	3641.8	3270.2	2992.4
25°	9244.4	9114.5	8898.0	8742.9	8569.7	6320.5	5261.6	4468.0	3627.4	3192.7	2869.8
27.5°	10041.7	9897.3	9675.5	9513.1	9303.8	6809.2	5524.9	4556.4	3573.3	3066.5	2705.7
30°	10873.2	10741.6	10523.3	10359.1	10148.1	7326.9	5819.0	4615.9	3465.0	2891.5	2514.4
32.5°	11766.0	11656.0	11439.6	11268.2	11042.8	7887.8	6093.2	4633.8	3300.9	2684.0	2312.4
35°	12613.8	12538.1	12355.8	12195.3	11960.8	8418.2	6383.5	4624.8	3106.1	2456.8	2128.4
37.5°	13568.0	13522.9	13432.7	13228.9	12942.2	9137.9	6731.7	4586.9	2868.0	2231.3	1987.8
40°	14585.3	14589.0	14491.5	14352.6	14085.7	10010.9	7146.6	4513.1	2608.3	2032.9	1859.8
42.5°	15662.2	15718.2	15671.2	15571.9	15315.8	10891.2	7642.6	4422.9	2355.7	1839.9	1733.4
45°	16896.0	16964.5	17036.6	16890.6	16641.6	12052.7	8295.6	4305.5	2083.3	1679.3	1646.9
47.5°	18319.1	18427.4	18492.2	18494.1	18245.1	13492.3	9356.1	4235.2	1841.6	1571.0	1605.4
50°	21322.3	21356.8	21510.0	21777.0	21585.8	16823.7	11208.6	4192.0	1677.6	1504.3	1574.6
52.5°	25649.7	26026.7	26291.9	26273.7	26014.0	18939.7	12229.5	3968.4	1580.1	1479.1	1560.3
55°	27412.0	27882.8	28373.3	28503.3	28301.2	20745.2	13194.7	3744.7	1533.1	1497.1	1565.7
57.5°	29760.5	30554.1	31226.9	31510.1	31218.0	23055.9	14464.5	3627.4	1518.8	1545.9	1599.9
60°	32504.0	33485.3	34369.2	34877.9	34877.9	25711.0	15781.2	3578.7	1498.9	1617.9	1657.6
62.5°	34266.3	35707.5	37042.2	37787.4	37765.6	27559.9	16365.6	3412.8	1453.8	1668.5	1737.1
65°	34273.6	35987.1	37688.1	38525.0	38568.3	27332.5	15400.6	3014.2	1370.9	1675.7	1816.5
67.5°	31416.3	33243.5	35226.0	36162.1	36378.5	25160.8	13331.7	2478.3	1235.6	1603.6	1845.3
70°	26533.5	28317.5	30341.3	31261.2	31645.4	21448.7	10737.9	1910.2	1062.4	1444.8	1785.7
72.5°	20904.0	22653.5	24062.4	24735.2	25034.5	16394.4	7819.3	1442.9	871.3	1217.6	1625.3
75°	14799.9	16113.1	16861.6	17011.5	17058.4	9883.0	4751.1	1073.3	717.8	947.0	1372.7
77.5°	8353.2	8916.0	8854.8	8921.4	8365.9	3815.0	2068.9	768.4	591.7	719.7	1064.2
80°	3261.2	3362.3	3158.4	3095.3	2839.2	1419.6	912.7	535.7	472.6	544.7	745.0
82.5°	1437.6	1484.4	1441.2	1452.0	1388.9	732.4	546.6	387.8	360.8	398.7	494.2
85°	791.9	806.3	802.6	826.1	791.9	292.2	259.7	238.1	252.6	270.6	317.6
87.5°	386.0	389.7	377.0	396.8	384.2	148.0	128.1	135.3	148.0	151.5	151.5
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°	3097.0	3097.0	3097.0	3097.0	3097.0	3097.0
2.5°	2925.7	2911.2	2913.2	2909.5	2902.2	2902.2
5°	2900.4	2886.1	2886.1	2882.4	2873.4	2875.2
7.5°	2925.7	2902.2	2893.3	2880.7	2868.0	2868.0
10°	2954.5	2913.2	2887.8	2866.2	2850.0	2850.0
12.5°	2976.3	2911.2	2869.8	2840.9	2824.7	2824.7
15°	2983.5	2898.7	2840.9	2806.7	2792.2	2790.4
17.5°	2959.9	2850.0	2779.6	2739.9	2722.0	2716.5
20°	2887.8	2761.6	2676.8	2631.8	2606.4	2597.4
22.5°	2779.6	2635.3	2536.2	2489.3	2456.8	2451.4
25°	2628.1	2472.9	2375.6	2330.5	2312.4	2307.0
27.5°	2451.4	2307.0	2224.1	2195.2	2179.0	2177.1
30°	2283.6	2161.0	2099.6	2078.0	2058.0	2054.6
32.5°	2126.6	2049.2	2025.7	1995.0	1948.1	1942.7
35°	2014.8	2007.6	1991.4	1922.8	1865.2	1848.9
37.5°	1946.3	2013.0	1930.1	1794.8	1753.3	1749.7
40°	1906.7	1957.0	1814.5	1767.8	1771.3	1767.8
42.5°	1816.5	1868.7	1818.2	1796.6	1811.1	1814.5
45°	1726.3	1783.9	1845.3	1830.8	1865.2	1865.2
47.5°	1675.7	1762.2	1843.4	1843.4	1893.9	1912.0
50°	1617.9	1744.2	1814.5	1839.9	1879.6	1865.2
52.5°	1614.3	1713.5	1773.2	1818.2	1836.2	1820.0
55°	1619.9	1688.4	1731.7	1782.1	1803.7	1805.6
57.5°	1627.0	1673.9	1702.7	1726.3	1791.1	1791.1
60°	1645.1	1661.2	1677.6	1690.2	1775.0	1776.7
62.5°	1673.9	1648.7	1645.1	1657.6	1765.9	1758.7
65°	1718.9	1630.7	1603.6	1616.2	1756.8	1735.3
67.5°	1780.4	1603.6	1551.3	1560.3	1749.7	1702.7
70°	1836.2	1560.3	1486.3	1477.4	1681.1	1598.2
72.5°	1841.6	1509.7	1396.1	1369.0	1461.1	1381.8
75°	1751.4	1475.5	1297.0	1217.6	1206.8	1196.0
77.5°	1578.3	1455.7	1181.5	1057.0	1035.3	1042.7
80°	1320.4	1381.8	1042.7	894.7	1011.9	999.3
82.5°	986.7	1219.4	885.6	791.9	790.1	698.1
85°	548.3	950.5	721.5	593.4	413.1	400.5
87.5°	153.3	528.6	505.0	335.4	229.1	238.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)