

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: P193966

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193966  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44488 lumens  
Efficiency: N/A  
Efficacy: 87.1 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): 511  
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

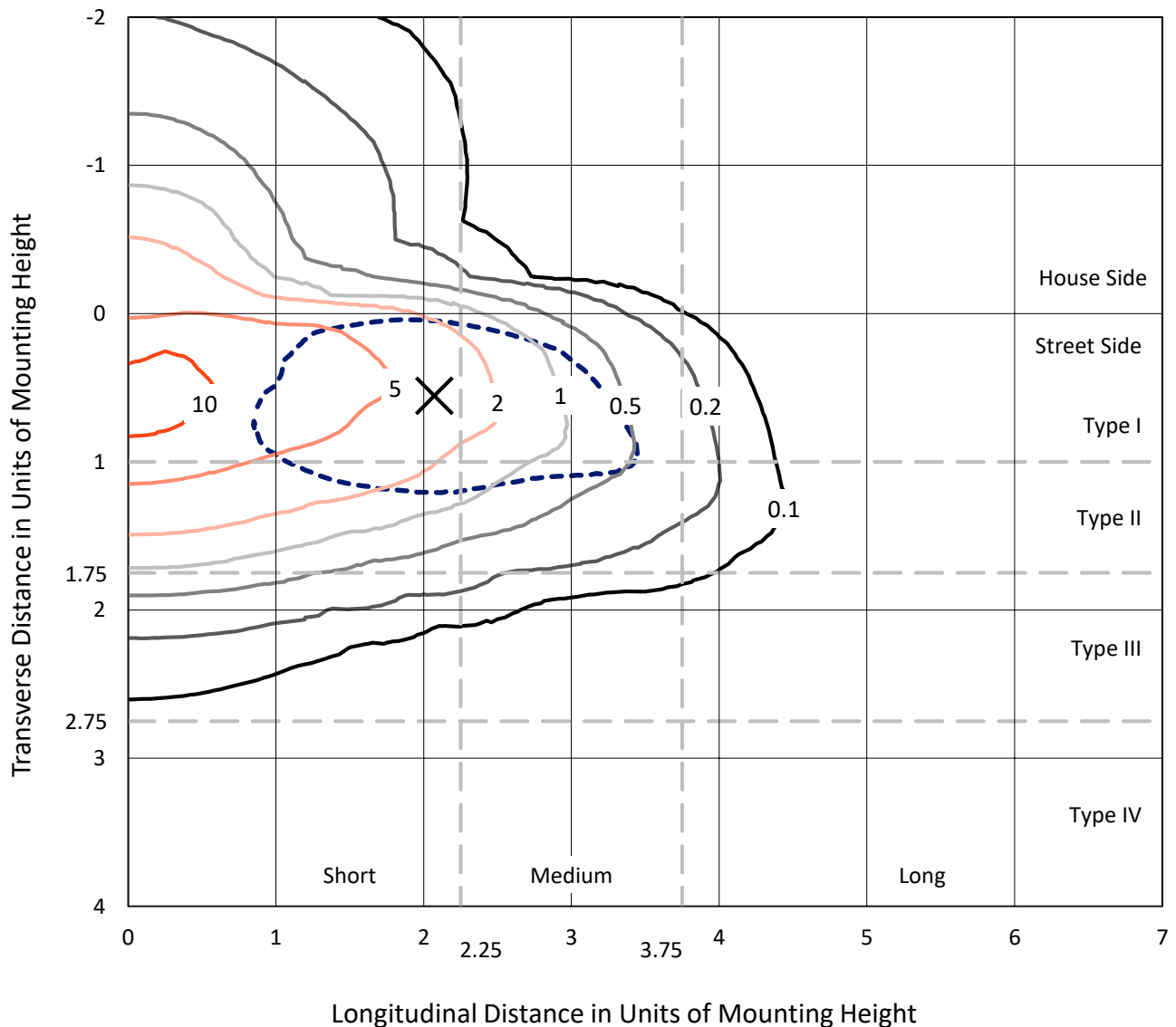


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### Iso-Footcandle Lines of Horizontal Illumination

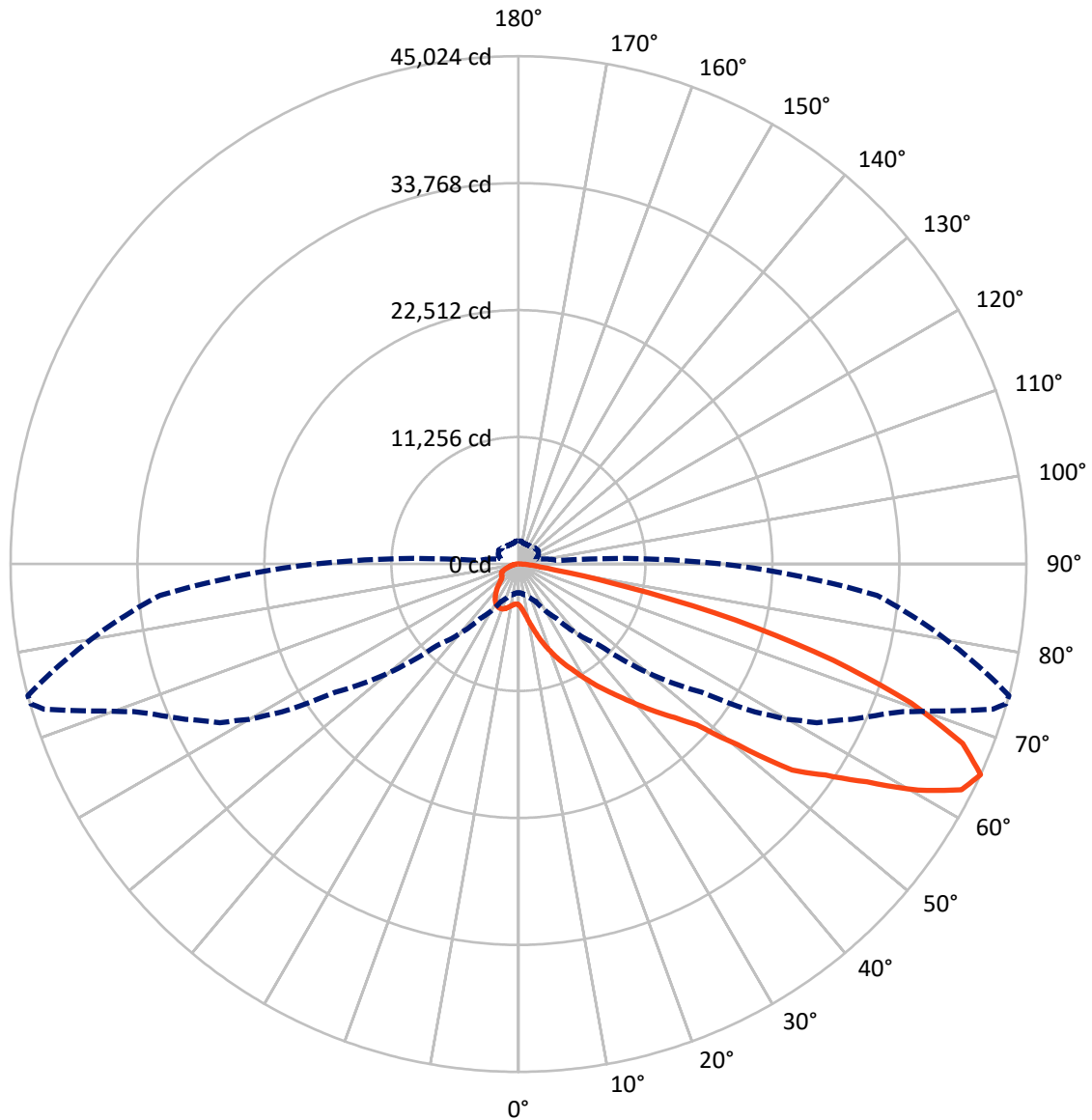
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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	6859.0	0.0	6859.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	37629.0	0.0	37629.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	44488.0	0.0	44488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.9	1.0
10°-20°	1746.1	3.9
20°-30°	3582.4	8.1
30°-40°	6027.2	13.5
40°-50°	8327.9	18.7
50°-60°	10395.8	23.4
60°-70°	9355.1	21.0
70°-80°	3921.5	8.8
80°-90°	685.1	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°	44488.0	100.0
0°-180°	44488.0	100.0

**Coefficient of Utilization**



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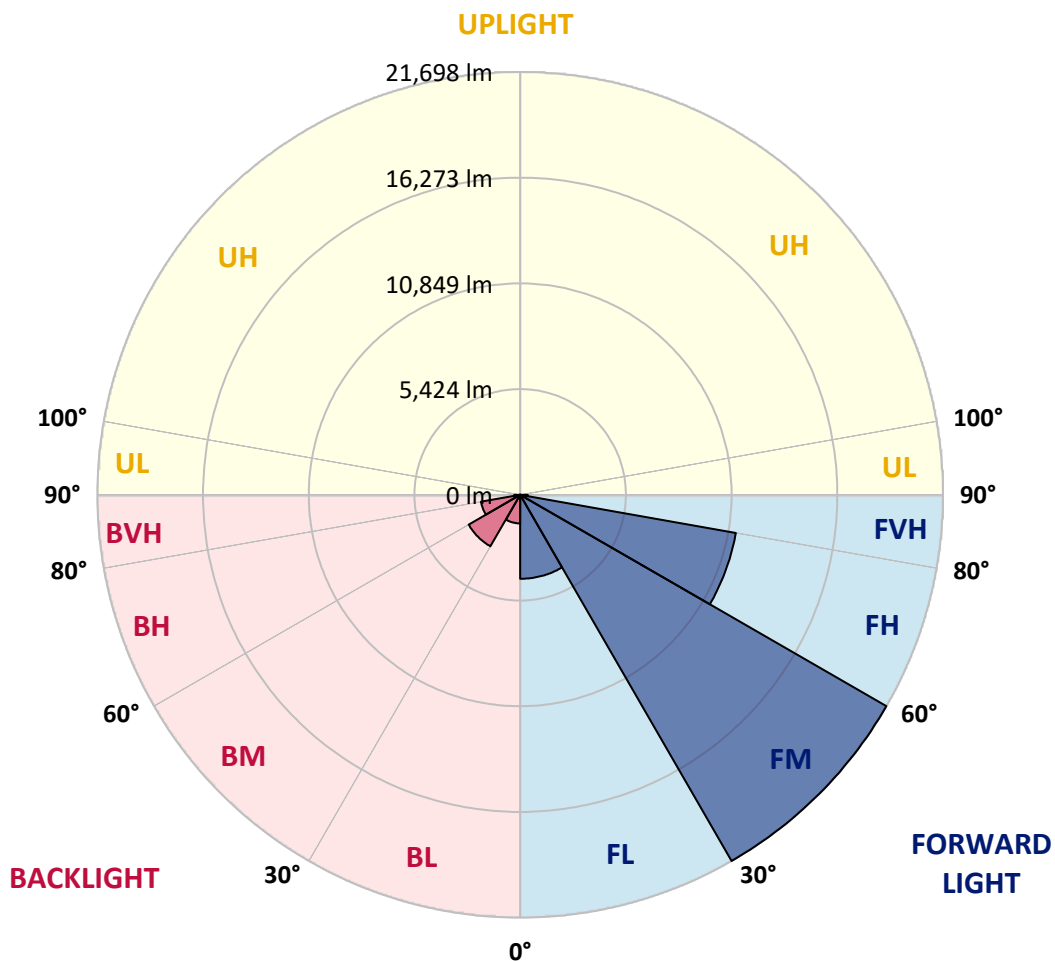
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4308.5	9.7			
FM	(30°-60°)	21697.9	48.8			
FH	(60°-80°)	11237.5	25.3			G4/12000
FVH	(80°-90°)	385.1	0.9			G3/500
BL	(0°-30°)	1466.9	3.3	B3/2500		
BM	(30°-60°)	3053.0	6.9	B3/5000		
BH	(60°-80°)	2039.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	300.0	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°	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5
2.5°	4590.4	4539.9	4552.5	4468.3	4365.1	4230.4	4080.9	4078.8	4080.9	4066.1	4011.4
5°	6365.6	6304.5	6281.3	6091.8	5813.9	5418.0	4988.4	4942.1	4923.1	4874.7	4763.1
7.5°	7660.6	7626.9	7591.1	7447.9	7195.2	6753.0	6176.0	6077.1	5982.3	5959.2	5832.8
10°	8496.5	8488.1	8412.3	8374.4	8216.5	7833.2	7271.0	7176.3	7073.1	7037.3	6904.6
12.5°	9157.7	9155.6	9119.8	9130.4	8993.5	8715.5	8231.2	8144.9	8069.1	7959.6	7864.8
15°	9614.7	9616.8	9669.4	9728.4	9707.3	9519.9	9065.1	9027.2	8961.9	8886.1	8774.5
17.5°	9989.5	10000.0	10054.8	10162.1	10278.0	10263.2	9903.1	9871.6	9814.7	9711.5	9652.6
20°	10836.0	10876.0	10770.7	10770.7	10783.3	10840.2	10667.5	10642.2	10562.2	10507.5	10461.2
22.5°	12265.8	12312.1	12074.1	11832.0	11594.0	11421.4	11248.7	11280.3	11225.5	11187.6	11160.3
25°	14123.0	14158.8	13773.4	13364.9	12880.6	12248.9	11821.4	11802.5	11773.0	11749.9	11737.2
27.5°	15870.7	15885.5	15521.2	14923.2	14360.9	13453.4	12402.6	12379.5	12343.7	12299.4	12261.5
30°	17365.8	17361.6	16986.7	16416.1	15813.9	14809.4	13284.9	13213.3	13108.0	12988.0	12895.4
32.5°	18660.8	18654.5	18243.9	17652.2	17020.4	16152.9	14493.6	14346.2	14181.9	13948.2	13807.1
35°	19679.9	19675.7	19288.3	18671.3	17947.0	17418.4	15879.1	15698.1	15489.6	15175.8	14959.0
37.5°	20065.3	20065.3	19848.4	19427.3	18787.1	18424.9	17418.4	17199.4	16976.2	16620.4	16376.1
40°	19840.0	19844.2	19890.5	19812.6	19501.0	19223.0	18854.5	18724.0	18532.3	18212.3	17957.5
42.5°	19084.0	19107.2	19414.6	19791.6	19947.4	19903.2	20128.5	20069.5	19934.7	19688.4	19486.2
45°	18125.9	18197.5	18534.4	19246.2	20071.6	20490.6	21196.1	21202.4	21177.1	21044.4	20888.6
47.5°	16809.9	16910.9	17355.2	18317.6	19781.0	21061.3	22280.5	22337.4	22390.0	22303.7	22232.1
50°	15062.1	15182.2	15847.6	17123.6	19189.3	21653.0	24329.4	24586.2	24826.3	24796.8	24845.3
52.5°	13190.2	13331.2	14146.1	15567.5	18172.3	21789.9	25639.1	26058.1	26477.2	26820.4	27184.7
55°	11501.4	11425.6	12240.5	13737.6	16500.3	21172.9	26816.2	27321.6	27789.0	28210.2	28643.9
57.5°	9212.5	9336.7	10153.7	11634.0	14287.2	19431.5	27626.9	28366.0	29037.7	29734.7	30349.6
60°	6734.1	6858.3	7744.8	9248.3	11884.6	16790.9	27007.8	28128.1	29204.1	30271.7	31105.5
62.5°	4066.1	4158.8	4940.0	6371.9	9164.0	13659.7	24249.3	25719.1	27302.6	28578.7	29856.8
65°	2531.1	2583.7	2872.2	3659.7	5885.5	10197.9	19812.6	21415.1	23120.7	24740.0	26068.7
67.5°	2072.0	2091.0	2143.6	2312.1	3232.3	6649.8	14746.3	16165.5	17704.8	19271.4	20749.6
70°	1863.6	1850.9	1850.9	1861.4	2072.0	3575.5	9654.7	10579.1	11861.5	13223.8	14575.7
72.5°	1682.5	1669.8	1646.7	1615.1	1690.9	2181.5	4990.5	5687.5	6611.9	7822.7	9117.7
75°	1511.9	1495.1	1467.7	1427.7	1480.3	1646.7	2396.3	2689.0	3139.6	3784.0	4506.2
77.5°	1335.0	1314.0	1288.7	1259.2	1326.6	1280.3	1404.5	1509.8	1682.5	1888.8	2160.5
80°	1135.0	1116.0	1107.6	1092.9	1172.9	974.9	991.8	1057.1	1158.1	1269.7	1396.1
82.5°	888.6	888.6	922.3	928.6	1017.1	701.2	741.2	798.1	850.7	909.7	968.6
85°	585.4	589.6	703.3	747.5	802.3	471.7	555.9	574.9	617.0	650.7	675.9
87.5°	183.2	197.9	429.6	475.9	461.2	267.4	341.1	349.5	379.0	402.2	423.2
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°	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5
2.5°	4011.4	3986.1	3962.9	3960.8	3944.0	3920.8	3929.3	3893.5	3895.6	3876.6	3855.6
5°	4716.8	4699.9	4615.7	4592.5	4529.4	4489.4	4483.1	4398.8	4388.3	4339.9	4287.2
7.5°	5731.7	5677.0	5559.1	5502.2	5394.8	5314.8	5276.9	5165.3	5110.6	4984.2	4927.4
10°	6795.1	6725.6	6580.3	6500.3	6397.1	6268.7	6199.2	6037.1	5973.9	5858.1	5719.1
12.5°	7780.6	7711.1	7561.6	7500.5	7363.7	7226.8	7151.0	6967.8	6885.7	6700.4	6590.9
15°	8692.4	8622.9	8492.3	8429.1	8292.3	8180.7	8079.6	7898.5	7801.6	7629.0	7485.8
17.5°	9576.8	9503.1	9389.4	9332.5	9199.8	9086.1	8976.6	8806.1	8707.1	8534.4	8406.0
20°	10398.0	10343.2	10261.1	10185.3	10052.7	9949.5	9818.9	9671.5	9528.3	9402.0	9279.9
22.5°	11113.9	11092.9	11004.4	10970.7	10857.0	10768.6	10654.9	10509.6	10406.4	10246.4	10132.7
25°	11730.9	11724.6	11682.5	11671.9	11591.9	11507.7	11482.4	11362.4	11267.6	11126.6	11008.6
27.5°	12261.5	12267.9	12257.3	12286.8	12265.8	12227.8	12230.0	12189.9	12135.2	12017.3	11914.1
30°	12851.1	12817.4	12836.4	12878.5	12891.1	12895.4	12964.8	12988.0	12983.8	12905.9	12855.3
32.5°	13685.0	13605.0	13531.3	13525.0	13567.1	13583.9	13701.8	13762.9	13815.6	13834.5	13842.9
35°	14748.4	14588.3	14434.6	14352.5	14280.9	14299.9	14384.1	14483.1	14598.9	14678.9	14773.6
37.5°	16087.6	15891.8	15620.1	15426.4	15378.0	15272.7	15327.5	15405.4	15519.1	15643.3	15807.6
40°	17711.1	17414.2	17108.9	16852.0	16713.0	16519.3	16517.2	16502.4	16571.9	16687.7	16919.4
42.5°	19273.5	19010.3	18686.1	18416.5	18235.4	17976.4	17923.8	17786.9	17818.5	17919.6	18144.9
45°	20737.0	20520.1	20322.2	20010.5	19856.8	19576.8	19488.3	19326.2	19235.6	19282.0	19507.3
47.5°	22154.2	22015.2	21808.8	21606.7	21488.8	21238.2	21124.5	21008.7	20892.8	20888.6	21124.5
50°	24916.8	24843.1	24598.9	24388.3	24445.2	24137.7	24156.7	23845.0	23986.1	24003.0	24497.8
52.5°	27513.2	27770.1	27951.2	28172.3	28315.5	28342.8	28437.6	28578.7	28749.2	29086.1	29545.2
55°	28999.8	29322.0	29509.4	29677.9	29955.8	30014.8	30172.7	30360.1	30509.6	30888.6	31278.2
57.5°	30766.5	31364.5	31655.1	31922.5	32297.4	32440.5	32703.8	32908.0	33101.7	33550.2	34021.9
60°	31855.2	32583.7	33175.4	33598.7	34068.3	34405.2	34803.1	35123.2	35578.0	36115.0	36818.3
62.5°	30989.7	32059.4	32844.8	33571.3	34209.3	34853.7	35424.3	36022.4	36713.0	37525.8	38616.6
65°	27542.7	28631.3	29976.9	30730.7	31575.1	32569.0	33436.5	34405.2	35346.4	36529.8	38142.8
67.5°	22173.1	23438.6	24950.5	25710.7	26681.4	27791.1	28764.0	29947.4	31046.6	32480.5	34474.7
70°	15982.3	17618.5	18890.3	19684.2	20817.0	21960.4	22899.6	24276.7	25186.4	26656.2	28717.6
72.5°	10120.0	11410.8	12969.1	13969.3	14975.8	16133.9	17094.1	18281.8	19130.4	20469.6	22337.4
75°	5441.2	6392.9	7761.6	8711.3	9789.4	10779.1	11903.6	12699.5	13327.0	14386.2	15902.3
77.5°	2550.0	3129.1	3821.9	4552.5	5283.2	6045.5	6786.7	7431.0	7700.6	8307.0	9201.9
80°	1547.7	1735.1	1937.3	2162.6	2467.9	2714.3	3040.6	3276.5	3293.3	3484.9	3758.7
82.5°	1033.9	1103.4	1164.5	1221.3	1299.2	1360.3	1429.8	1511.9	1545.6	1589.8	1678.2
85°	705.4	739.1	751.7	787.5	779.1	800.2	827.5	854.9	869.7	867.6	907.6
87.5°	433.8	450.6	459.0	467.5	461.2	452.7	465.4	480.1	484.3	471.7	475.9
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°	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5
2.5°	3859.8	3840.8	3821.9	3809.2	3805.0	3693.4	3645.0	3613.4	3546.0	3491.3	3447.0
5°	4257.7	4217.7	4186.1	4148.2	4127.2	3845.0	3741.8	3670.2	3552.3	3482.8	3419.7
7.5°	4897.9	4786.3	4721.0	4647.3	4584.1	4074.5	3904.0	3792.4	3628.1	3535.5	3463.9
10°	5624.3	5508.5	5405.4	5291.6	5192.7	4379.9	4131.4	3958.7	3741.8	3621.8	3527.1
12.5°	6435.0	6321.3	6190.8	6045.5	5919.1	4767.3	4422.0	4175.6	3878.7	3718.7	3586.0
15°	7393.1	7193.1	7035.2	6866.7	6719.3	5230.6	4761.0	4419.9	4024.0	3807.1	3630.2
17.5°	8283.9	8073.3	7858.5	7711.1	7540.5	5750.7	5102.1	4668.4	4144.0	3864.0	3638.7
20°	9153.5	8924.0	8738.7	8540.8	8361.8	6289.8	5466.4	4887.3	4221.9	3866.1	3586.0
22.5°	9920.0	9776.8	9570.4	9355.7	9174.6	6828.8	5807.5	5072.7	4251.4	3817.6	3493.4
25°	10791.8	10640.1	10387.5	10206.4	10004.2	7378.4	6142.4	5215.8	4234.6	3727.1	3350.2
27.5°	11722.5	11554.0	11295.0	11105.5	10861.2	7949.0	6449.8	5319.0	4171.4	3579.7	3158.6
30°	12693.2	12539.5	12284.7	12093.1	11846.7	8553.4	6793.0	5388.5	4045.1	3375.5	2935.4
32.5°	13735.5	13607.1	13354.4	13154.4	12891.1	9208.3	7113.1	5409.6	3853.4	3133.3	2699.5
35°	14725.2	14636.8	14424.1	14236.7	13963.0	9827.3	7452.1	5399.0	3626.0	2868.0	2484.7
37.5°	15839.1	15786.5	15681.2	15443.3	15108.5	10667.5	7858.5	5354.8	3348.1	2604.8	2320.5
40°	17026.8	17031.0	16917.3	16755.1	16443.5	11686.7	8342.8	5268.5	3044.9	2373.1	2171.0
42.5°	18283.9	18349.1	18294.4	18178.6	17879.6	12714.3	8921.9	5163.2	2750.1	2147.8	2023.6
45°	19724.2	19804.2	19888.4	19717.9	19427.3	14070.3	9684.2	5026.3	2432.1	1960.4	1922.5
47.5°	21385.6	21511.9	21587.7	21589.8	21299.2	15750.7	10922.3	4944.2	2149.9	1834.1	1874.1
50°	24891.6	24931.6	25110.6	25422.2	25199.0	19639.9	13084.9	4893.7	1958.3	1756.2	1838.3
52.5°	29943.2	30383.3	30692.8	30671.7	30368.5	22109.9	14276.7	4632.6	1844.6	1726.7	1821.4
55°	32000.4	32550.0	33122.8	33274.4	33038.6	24217.8	15403.3	4371.5	1789.9	1747.7	1827.8
57.5°	34742.1	35668.6	36454.0	36784.6	36443.5	26915.2	16885.7	4234.6	1773.0	1804.6	1867.8
60°	37944.9	39090.4	40122.2	40716.0	40716.0	30014.8	18422.8	4177.7	1749.8	1888.8	1935.1
62.5°	40002.1	41684.6	43242.8	44112.5	44087.2	32173.1	19105.1	3984.0	1697.2	1947.8	2027.8
65°	40010.6	42011.0	43996.7	44973.7	45024.3	31907.8	17978.5	3518.6	1600.3	1956.2	2120.4
67.5°	36675.1	38808.2	41122.4	42215.2	42467.9	29372.5	15563.3	2893.2	1442.4	1872.0	2154.1
70°	30975.0	33057.5	35420.1	36494.0	36942.5	25039.0	12535.3	2229.9	1240.3	1686.7	2084.7
72.5°	24403.1	26445.6	28090.1	28875.6	29225.1	19138.8	9128.2	1684.6	1017.1	1421.4	1897.2
75°	17277.3	18810.3	19684.2	19858.9	19913.7	11537.2	5546.4	1252.9	838.1	1105.5	1602.4
77.5°	9751.5	10408.5	10336.9	10414.8	9766.3	4453.6	2415.2	897.0	690.7	840.2	1242.4
80°	3807.1	3925.0	3687.1	3613.4	3314.4	1657.2	1065.5	625.4	551.7	635.9	869.7
82.5°	1678.2	1733.0	1682.5	1695.1	1621.4	854.9	638.0	452.7	421.1	465.4	577.0
85°	924.4	941.3	937.0	964.4	924.4	341.1	303.2	278.0	294.8	315.9	370.6
87.5°	450.6	454.8	440.1	463.3	448.5	172.7	149.5	157.9	172.7	176.9	176.9
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°	3615.5	3615.5	3615.5	3615.5	3615.5	3615.5
2.5°	3415.5	3398.6	3400.7	3396.5	3388.1	3388.1
5°	3386.0	3369.1	3369.1	3364.9	3354.4	3356.5
7.5°	3415.5	3388.1	3377.6	3362.8	3348.1	3348.1
10°	3449.2	3400.7	3371.2	3346.0	3327.0	3327.0
12.5°	3474.4	3398.6	3350.2	3316.5	3297.5	3297.5
15°	3482.8	3383.9	3316.5	3276.5	3259.6	3257.5
17.5°	3455.5	3327.0	3244.9	3198.6	3177.5	3171.2
20°	3371.2	3223.8	3124.9	3072.2	3042.7	3032.2
22.5°	3244.9	3076.4	2960.6	2905.9	2868.0	2861.7
25°	3068.0	2886.9	2773.2	2720.6	2699.5	2693.2
27.5°	2861.7	2693.2	2596.3	2562.6	2543.7	2541.6
30°	2665.8	2522.6	2451.0	2425.8	2402.6	2398.4
32.5°	2482.6	2392.1	2364.7	2328.9	2274.2	2267.8
35°	2352.1	2343.7	2324.7	2244.7	2177.3	2158.4
37.5°	2272.1	2350.0	2253.1	2095.2	2046.7	2042.5
40°	2225.7	2284.7	2118.3	2063.6	2067.8	2063.6
42.5°	2120.4	2181.5	2122.6	2097.3	2114.1	2118.3
45°	2015.2	2082.5	2154.1	2137.3	2177.3	2177.3
47.5°	1956.2	2057.3	2152.0	2152.0	2211.0	2232.1
50°	1888.8	2036.2	2118.3	2147.8	2194.1	2177.3
52.5°	1884.6	2000.4	2069.9	2122.6	2143.6	2124.7
55°	1890.9	1970.9	2021.5	2080.4	2105.7	2107.8
57.5°	1899.3	1954.1	1987.8	2015.2	2091.0	2091.0
60°	1920.4	1939.4	1958.3	1973.0	2072.0	2074.1
62.5°	1954.1	1924.6	1920.4	1935.1	2061.5	2053.1
65°	2006.7	1903.6	1872.0	1886.7	2051.0	2025.7
67.5°	2078.3	1872.0	1810.9	1821.4	2042.5	1987.8
70°	2143.6	1821.4	1735.1	1724.6	1962.5	1865.7
72.5°	2149.9	1762.5	1629.8	1598.2	1705.6	1613.0
75°	2044.6	1722.5	1514.0	1421.4	1408.7	1396.1
77.5°	1842.5	1699.3	1379.2	1233.9	1208.7	1217.1
80°	1541.4	1613.0	1217.1	1044.4	1181.3	1166.6
82.5°	1151.8	1423.5	1033.9	924.4	922.3	814.9
85°	640.1	1109.7	842.3	692.8	482.2	467.5
87.5°	179.0	617.0	589.6	391.7	267.4	278.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)