

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: P192206

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192206  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 40154 lumens  
Efficiency: N/A  
Efficacy: 120.2 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): 334  
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

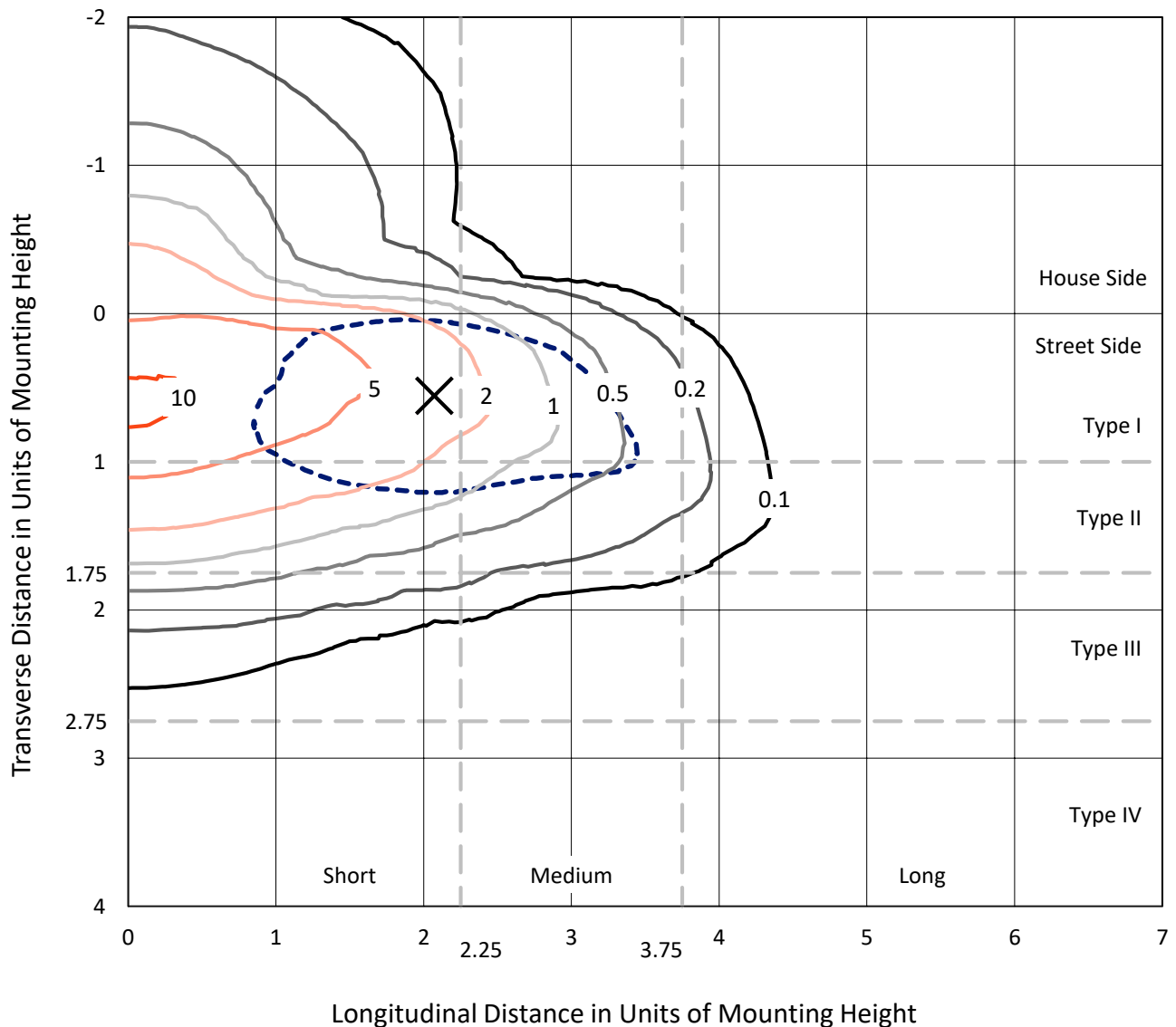


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

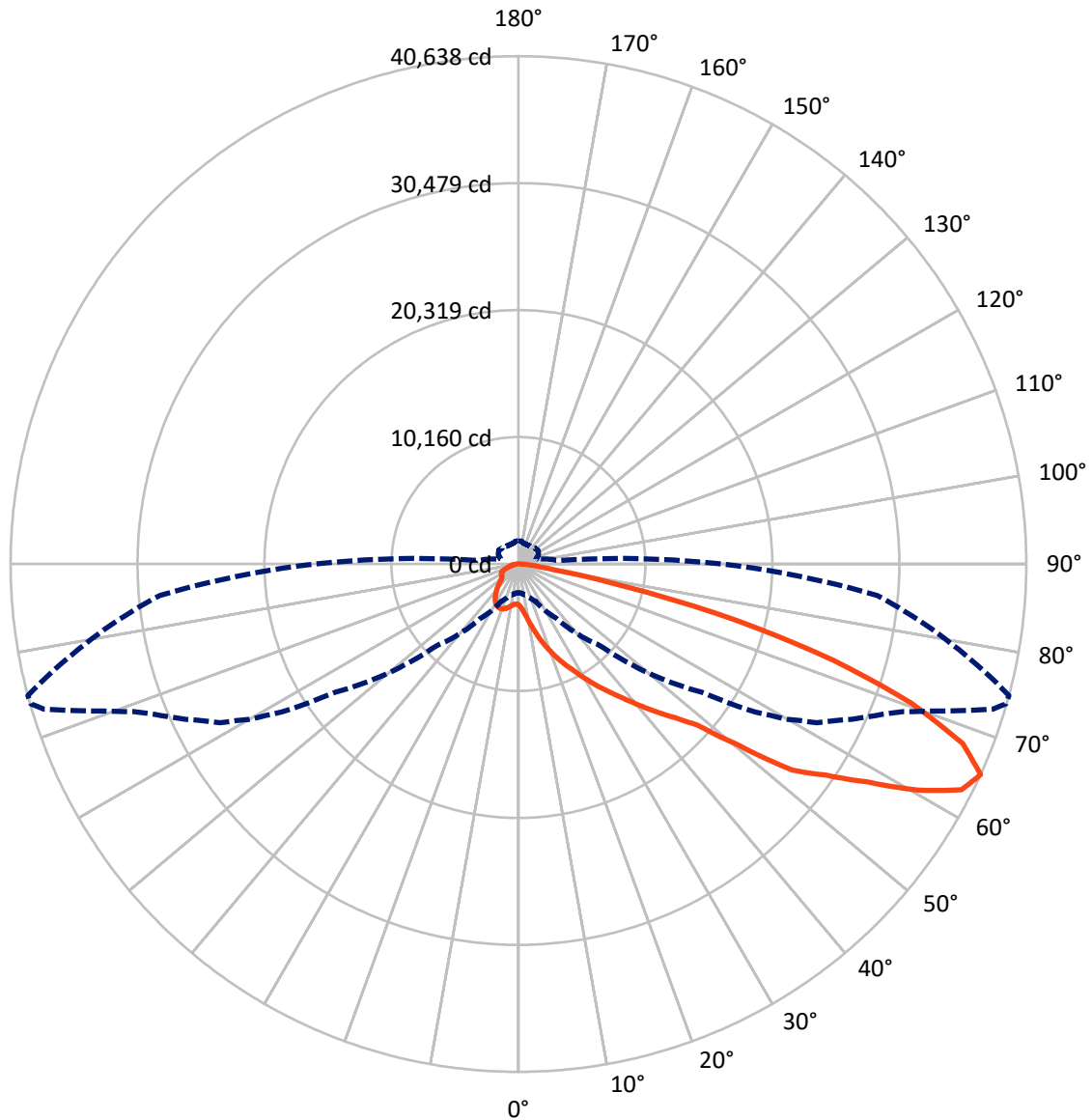


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - Full Cutoff

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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	6190.8	0.0	6190.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	33963.2	0.0	33963.2
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	40154.0	0.0	40154.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.4	1.0
10°-20°	1576.0	3.9
20°-30°	3233.4	8.1
30°-40°	5440.1	13.5
40°-50°	7516.6	18.7
50°-60°	9383.0	23.4
60°-70°	8443.7	21.0
70°-80°	3539.5	8.8
80°-90°	618.4	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°	40154.0	100.0
0°-180°	40154.0	100.0



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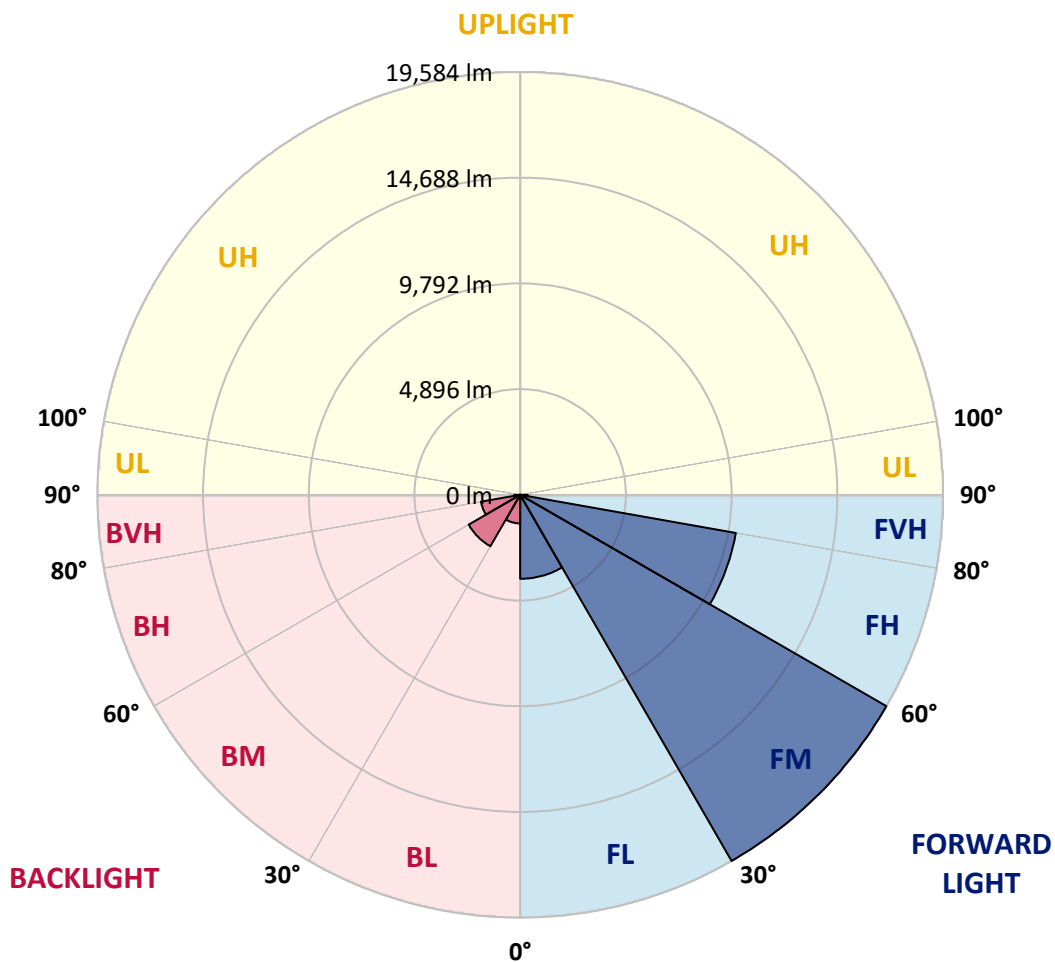
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.8	9.7			
FM (30°-60°)	19584.1	48.8			
FH (60°-80°)	10142.8	25.3			G4/12000
FVH (80°-90°)	347.6	0.9			G3/500
BL (0°-30°)	1324.0	3.3	B3/2500		
BM (30°-60°)	2755.6	6.9	B3/5000		
BH (60°-80°)	1840.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	270.8	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3
2.5°	4143.2	4097.6	4109.0	4033.0	3939.9	3818.2	3683.3	3681.4	3683.3	3670.0	3620.6
5°	5745.4	5690.3	5669.4	5498.4	5247.5	4890.2	4502.5	4460.6	4443.5	4399.8	4299.1
7.5°	6914.3	6883.9	6851.6	6722.3	6494.3	6095.1	5574.4	5485.0	5399.5	5378.6	5264.6
10°	7668.8	7661.2	7592.8	7558.6	7416.0	7070.1	6562.7	6477.1	6384.0	6351.7	6232.0
12.5°	8265.6	8263.7	8231.4	8240.9	8117.3	7866.5	7429.3	7351.4	7283.0	7184.2	7098.6
15°	8678.0	8679.9	8727.4	8780.6	8761.6	8592.5	8182.0	8147.7	8088.8	8020.4	7919.7
17.5°	9016.3	9025.8	9075.2	9172.2	9276.7	9263.4	8938.4	8909.9	8858.6	8765.4	8712.2
20°	9780.3	9816.4	9721.4	9721.4	9732.8	9784.1	9628.3	9605.5	9533.3	9483.8	9442.0
22.5°	11070.8	11112.6	10897.9	10679.3	10464.5	10308.7	10152.9	10181.4	10131.9	10097.7	10073.0
25°	12747.1	12779.4	12431.6	12062.9	11625.8	11055.6	10669.8	10652.7	10626.1	10605.2	10593.8
27.5°	14324.6	14337.9	14009.1	13469.3	12961.9	12142.7	11194.4	11173.5	11141.1	11101.2	11067.0
30°	15674.0	15670.2	15331.9	14816.9	14273.3	13366.7	11990.7	11926.1	11831.1	11722.7	11639.1
32.5°	16842.9	16837.2	16466.5	15932.5	15362.3	14579.3	13081.6	12948.6	12800.3	12589.4	12462.0
35°	17762.7	17758.9	17409.2	16852.4	16198.6	15721.5	14332.2	14168.8	13980.6	13697.4	13501.7
37.5°	18110.5	18110.5	17914.8	17534.7	16956.9	16630.0	15721.5	15523.9	15322.4	15001.2	14780.7
40°	17907.2	17911.0	17952.8	17882.5	17601.2	17350.3	17017.7	16899.9	16726.9	16438.0	16208.1
42.5°	17224.9	17245.8	17523.3	17863.5	18004.1	17964.2	18167.6	18114.3	17992.7	17770.3	17587.9
45°	16360.1	16424.7	16728.8	17371.2	18116.2	18494.5	19131.1	19136.9	19114.0	18994.3	18853.7
47.5°	15172.3	15263.5	15664.5	16533.1	17854.0	19009.5	20109.9	20161.3	20208.8	20130.8	20066.2
50°	13594.8	13703.1	14303.7	15455.4	17319.9	19543.6	21959.2	22191.1	22407.7	22381.1	22424.8
52.5°	11905.2	12032.5	12768.0	14050.9	16401.9	19667.1	23141.4	23519.6	23897.8	24207.6	24536.4
55°	10380.9	10312.5	11048.0	12399.3	14892.9	19110.2	24203.8	24659.9	25081.8	25462.0	25853.5
57.5°	8315.0	8427.1	9164.6	10500.7	12895.4	17538.5	24935.5	25602.6	26208.9	26838.0	27392.9
60°	6078.0	6190.2	6990.3	8347.3	10726.8	15155.2	24376.7	25387.8	26359.0	27322.6	28075.2
62.5°	3670.0	3753.6	4458.7	5751.1	8271.3	12329.0	21887.0	23213.6	24642.8	25794.6	26948.2
65°	2284.5	2332.0	2592.4	3303.2	5312.1	9204.5	17882.5	19328.8	20868.3	22329.8	23529.1
67.5°	1870.2	1887.3	1934.8	2086.8	2917.4	6002.0	13309.7	14590.7	15980.0	17394.0	18728.2
70°	1682.0	1670.6	1670.6	1680.1	1870.2	3227.2	8714.1	9548.5	10705.9	11935.6	13155.8
72.5°	1518.6	1507.2	1486.2	1457.7	1526.2	1969.0	4504.4	5133.4	5967.8	7060.6	8229.5
75°	1364.6	1349.4	1324.7	1288.6	1336.1	1486.2	2162.8	2427.0	2833.8	3415.3	4067.2
77.5°	1205.0	1186.0	1163.1	1136.5	1197.4	1155.5	1267.7	1362.7	1518.6	1704.8	1950.0
80°	1024.4	1007.3	999.7	986.4	1058.6	880.0	895.2	954.1	1045.3	1146.0	1260.1
82.5°	802.0	802.0	832.5	838.2	918.0	632.9	669.0	720.3	767.8	821.0	874.3
85°	528.4	532.2	634.8	674.7	724.1	425.7	501.8	518.9	556.9	587.3	610.1
87.5°	165.3	178.7	387.7	429.5	416.2	241.4	307.9	315.5	342.1	363.0	382.0
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°	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3
2.5°	3620.6	3597.8	3576.9	3575.0	3559.8	3538.9	3546.5	3514.2	3516.1	3499.0	3479.9
5°	4257.3	4242.1	4166.1	4145.1	4088.1	4052.0	4046.3	3970.3	3960.8	3917.1	3869.6
7.5°	5173.4	5123.9	5017.5	4966.2	4869.3	4797.0	4762.8	4662.1	4612.7	4498.7	4447.3
10°	6133.1	6070.4	5939.3	5867.1	5773.9	5658.0	5595.3	5448.9	5391.9	5287.4	5162.0
12.5°	7022.6	6959.9	6825.0	6769.8	6646.3	6522.8	6454.3	6289.0	6214.9	6047.6	5948.8
15°	7845.6	7782.8	7665.0	7608.0	7484.4	7383.7	7292.5	7129.0	7041.6	6885.8	6756.5
17.5°	8643.8	8577.3	8474.6	8423.3	8303.6	8201.0	8102.1	7948.2	7858.9	7703.0	7587.1
20°	9385.0	9335.6	9261.5	9193.1	9073.3	8980.2	8862.4	8729.3	8600.1	8486.0	8375.8
22.5°	10031.2	10012.2	9932.4	9902.0	9799.3	9719.5	9616.9	9485.8	9392.6	9248.2	9145.5
25°	10588.1	10582.4	10544.4	10534.9	10462.6	10386.6	10363.8	10255.5	10170.0	10042.6	9936.2
27.5°	11067.0	11072.7	11063.2	11089.8	11070.8	11036.6	11038.5	11002.4	10953.0	10846.6	10753.4
30°	11599.2	11568.8	11585.9	11623.9	11635.3	11639.1	11701.8	11722.7	11718.9	11648.6	11603.0
32.5°	12351.8	12279.6	12213.1	12207.4	12245.4	12260.6	12367.0	12422.1	12469.6	12486.8	12494.4
35°	13311.6	13167.2	13028.4	12954.3	12889.7	12906.8	12982.8	13072.1	13176.7	13248.9	13334.4
37.5°	14520.4	14343.6	14098.4	13923.6	13879.9	13784.8	13834.3	13904.6	14007.2	14119.3	14267.6
40°	15985.7	15717.7	15442.1	15210.3	15084.8	14910.0	14908.1	14894.8	14957.5	15062.0	15271.1
42.5°	17395.9	17158.4	16865.7	16622.4	16458.9	16225.2	16177.7	16054.1	16082.6	16173.9	16377.2
45°	18716.8	18521.1	18342.4	18061.1	17922.4	17669.6	17589.8	17443.4	17361.7	17403.5	17606.9
47.5°	19995.9	19870.5	19684.2	19501.8	19395.3	19169.2	19066.5	18962.0	18857.5	18853.7	19066.5
50°	22489.5	22422.9	22202.5	22012.4	22063.7	21786.2	21803.4	21522.1	21649.4	21664.6	22111.2
52.5°	24832.9	25064.7	25228.2	25427.7	25557.0	25581.7	25667.2	25794.6	25948.5	26252.6	26666.9
55°	26174.7	26465.5	26634.6	26786.6	27037.5	27090.7	27233.3	27402.4	27537.4	27879.5	28231.1
57.5°	27769.2	28309.0	28571.3	28812.7	29151.0	29280.2	29517.8	29702.1	29877.0	30281.8	30707.5
60°	28751.8	29409.4	29943.5	30325.5	30749.3	31053.4	31412.6	31701.5	32112.0	32596.7	33231.5
62.5°	27970.7	28936.2	29645.1	30300.8	30876.7	31458.3	31973.3	32513.1	33136.5	33870.1	34854.6
65°	24859.5	25842.1	27056.5	27736.9	28499.1	29396.1	30179.2	31053.4	31903.0	32971.1	34426.9
67.5°	20013.0	21155.3	22519.9	23206.0	24082.1	25083.7	25961.8	27029.9	28022.0	29316.3	31116.2
70°	14425.3	15902.1	17050.0	17766.5	18789.0	19821.1	20668.7	21911.7	22732.7	24059.3	25920.0
72.5°	9134.1	10299.2	11705.6	12608.4	13516.9	14562.2	15428.8	16500.8	17266.7	18475.5	20161.3
75°	4911.1	5770.1	7005.5	7862.7	8835.8	9729.0	10743.9	11462.3	12028.7	12984.7	14353.1
77.5°	2301.6	2824.2	3449.5	4109.0	4768.5	5456.5	6125.5	6707.1	6950.4	7497.8	8305.5
80°	1396.9	1566.1	1748.5	1951.9	2227.5	2449.8	2744.4	2957.3	2972.5	3145.4	3392.5
82.5°	933.2	995.9	1051.0	1102.3	1172.7	1227.8	1290.5	1364.6	1395.0	1434.9	1514.8
85°	636.7	667.1	678.5	710.8	703.2	722.2	746.9	771.6	784.9	783.0	819.1
87.5°	391.5	406.7	414.3	421.9	416.2	408.6	420.0	433.3	437.1	425.7	429.5
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3
2.5°	3483.7	3466.6	3449.5	3438.1	3434.3	3333.6	3289.9	3261.4	3200.6	3151.1	3111.2
5°	3843.0	3806.8	3778.3	3744.1	3725.1	3470.4	3377.3	3312.7	3206.3	3143.5	3086.5
7.5°	4420.7	4320.0	4261.1	4194.6	4137.5	3677.6	3523.7	3422.9	3274.7	3191.1	3126.4
10°	5076.4	4971.9	4878.8	4776.1	4686.8	3953.2	3728.9	3573.1	3377.3	3269.0	3183.5
12.5°	5808.1	5705.5	5587.7	5456.5	5342.5	4302.9	3991.2	3768.8	3500.9	3356.4	3236.7
15°	6672.9	6492.4	6349.8	6197.8	6064.7	4721.0	4297.2	3989.3	3632.0	3436.2	3276.6
17.5°	7476.8	7286.8	7092.9	6959.9	6805.9	5190.5	4605.1	4213.6	3740.3	3487.5	3284.2
20°	8261.8	8054.6	7887.4	7708.7	7547.2	5677.0	4933.9	4411.2	3810.6	3489.4	3236.7
22.5°	8953.6	8824.4	8638.1	8444.2	8280.8	6163.6	5241.8	4578.5	3837.3	3445.7	3153.0
25°	9740.4	9603.6	9375.5	9212.1	9029.6	6659.6	5544.0	4707.7	3822.0	3364.0	3023.8
27.5°	10580.5	10428.4	10194.7	10023.6	9803.1	7174.7	5821.4	4800.8	3765.0	3231.0	2850.9
30°	11456.6	11317.9	11087.9	10915.0	10692.6	7720.1	6131.2	4863.6	3651.0	3046.6	2649.4
32.5°	12397.4	12281.5	12053.4	11872.9	11635.3	8311.2	6420.1	4882.6	3478.0	2828.0	2436.5
35°	13290.7	13210.9	13018.9	12849.8	12602.7	8870.0	6726.1	4873.1	3272.8	2588.6	2242.7
37.5°	14296.1	14248.6	14153.6	13938.8	13636.6	9628.3	7092.9	4833.2	3021.9	2351.0	2094.4
40°	15368.0	15371.8	15269.2	15122.8	14841.6	10548.2	7530.1	4755.2	2748.2	2141.9	1959.5
42.5°	16502.7	16561.6	16512.2	16407.6	16137.7	11475.6	8052.7	4660.2	2482.1	1938.6	1826.4
45°	17802.6	17874.9	17950.9	17796.9	17534.7	12699.6	8740.7	4536.7	2195.2	1769.4	1735.2
47.5°	19302.2	19416.2	19484.7	19486.6	19224.3	14216.3	9858.3	4462.5	1940.5	1655.4	1691.5
50°	22466.7	22502.8	22664.3	22945.6	22744.1	17726.6	11810.1	4416.9	1767.5	1585.1	1659.2
52.5°	27026.1	27423.3	27702.7	27683.7	27410.0	19956.0	12885.9	4181.3	1664.9	1558.5	1644.0
55°	28883.0	29379.0	29896.0	30032.8	29820.0	21858.5	13902.7	3945.6	1615.5	1577.5	1649.7
57.5°	31357.5	32193.8	32902.7	33201.1	32893.2	24293.1	15240.7	3822.0	1600.3	1628.8	1685.8
60°	34248.3	35282.2	36213.5	36749.4	36749.4	27090.7	16628.1	3770.7	1579.4	1704.8	1746.6
62.5°	36105.1	37623.7	39030.1	39815.1	39792.3	29038.8	17243.9	3595.9	1531.9	1758.0	1830.2
65°	36112.8	37918.3	39710.5	40592.4	40638.0	28799.4	16227.1	3175.9	1444.4	1765.6	1913.9
67.5°	33102.2	35027.5	37116.3	38102.6	38330.7	26511.1	14047.1	2611.4	1301.9	1689.6	1944.3
70°	27957.4	29837.1	31969.5	32938.8	33343.6	22599.7	11314.1	2012.7	1119.4	1522.4	1881.6
72.5°	22025.7	23869.3	25353.6	26062.5	26378.0	17274.3	8239.0	1520.5	918.0	1282.9	1712.4
75°	15594.2	16977.8	17766.5	17924.3	17973.7	10413.2	5006.1	1130.8	756.4	997.8	1446.3
77.5°	8801.5	9394.5	9329.9	9400.2	8814.8	4019.7	2180.0	809.6	623.4	758.3	1121.3
80°	3436.2	3542.7	3327.9	3261.4	2991.5	1495.7	961.7	564.5	497.9	574.0	784.9
82.5°	1514.8	1564.2	1518.6	1530.0	1463.4	771.6	575.9	408.6	380.1	420.0	520.8
85°	834.4	849.6	845.8	870.5	834.4	307.9	273.7	250.9	266.1	285.1	334.5
87.5°	406.7	410.5	397.2	418.1	404.8	155.8	134.9	142.5	155.8	159.6	159.6
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):**

	135°	145°	155°	165°	175°	180°
0°	3263.3	3263.3	3263.3	3263.3	3263.3	3263.3
2.5°	3082.7	3067.5	3069.4	3065.6	3058.0	3058.0
5°	3056.1	3040.9	3040.9	3037.1	3027.6	3029.5
7.5°	3082.7	3058.0	3048.5	3035.2	3021.9	3021.9
10°	3113.1	3069.4	3042.8	3020.0	3002.9	3002.9
12.5°	3135.9	3067.5	3023.8	2993.4	2976.3	2976.3
15°	3143.5	3054.2	2993.4	2957.3	2942.1	2940.2
17.5°	3118.8	3002.9	2928.8	2887.0	2868.0	2862.3
20°	3042.8	2909.8	2820.4	2772.9	2746.3	2736.8
22.5°	2928.8	2776.7	2672.2	2622.8	2588.6	2582.9
25°	2769.1	2605.7	2503.1	2455.5	2436.5	2430.8
27.5°	2582.9	2430.8	2343.4	2313.0	2295.9	2294.0
30°	2406.1	2276.9	2212.3	2189.5	2168.6	2164.8
32.5°	2240.8	2159.0	2134.3	2102.0	2052.6	2046.9
35°	2122.9	2115.3	2098.2	2026.0	1965.2	1948.1
37.5°	2050.7	2121.0	2033.6	1891.1	1847.4	1843.6
40°	2008.9	2062.1	1912.0	1862.6	1866.4	1862.6
42.5°	1913.9	1969.0	1915.8	1893.0	1908.2	1912.0
45°	1818.8	1879.7	1944.3	1929.1	1965.2	1965.2
47.5°	1765.6	1856.9	1942.4	1942.4	1995.6	2014.6
50°	1704.8	1837.9	1912.0	1938.6	1980.4	1965.2
52.5°	1701.0	1805.5	1868.3	1915.8	1934.8	1917.7
55°	1706.7	1778.9	1824.5	1877.8	1900.6	1902.5
57.5°	1714.3	1763.7	1794.1	1818.8	1887.3	1887.3
60°	1733.3	1750.4	1767.5	1780.8	1870.2	1872.1
62.5°	1763.7	1737.1	1733.3	1746.6	1860.7	1853.1
65°	1811.2	1718.1	1689.6	1702.9	1851.2	1828.3
67.5°	1875.9	1689.6	1634.5	1644.0	1843.6	1794.1
70°	1934.8	1644.0	1566.1	1556.6	1771.3	1683.9
72.5°	1940.5	1590.8	1471.0	1442.5	1539.5	1455.8
75°	1845.5	1554.7	1366.5	1282.9	1271.5	1260.1
77.5°	1663.0	1533.8	1244.9	1113.7	1090.9	1098.5
80°	1391.2	1455.8	1098.5	942.7	1066.2	1052.9
82.5°	1039.6	1284.8	933.2	834.4	832.5	735.5
85°	577.8	1001.6	760.2	625.3	435.2	421.9
87.5°	161.5	556.9	532.2	353.5	241.4	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)