

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: P383557

Luminaire Tested: **GLEON-SA8C-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51731.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

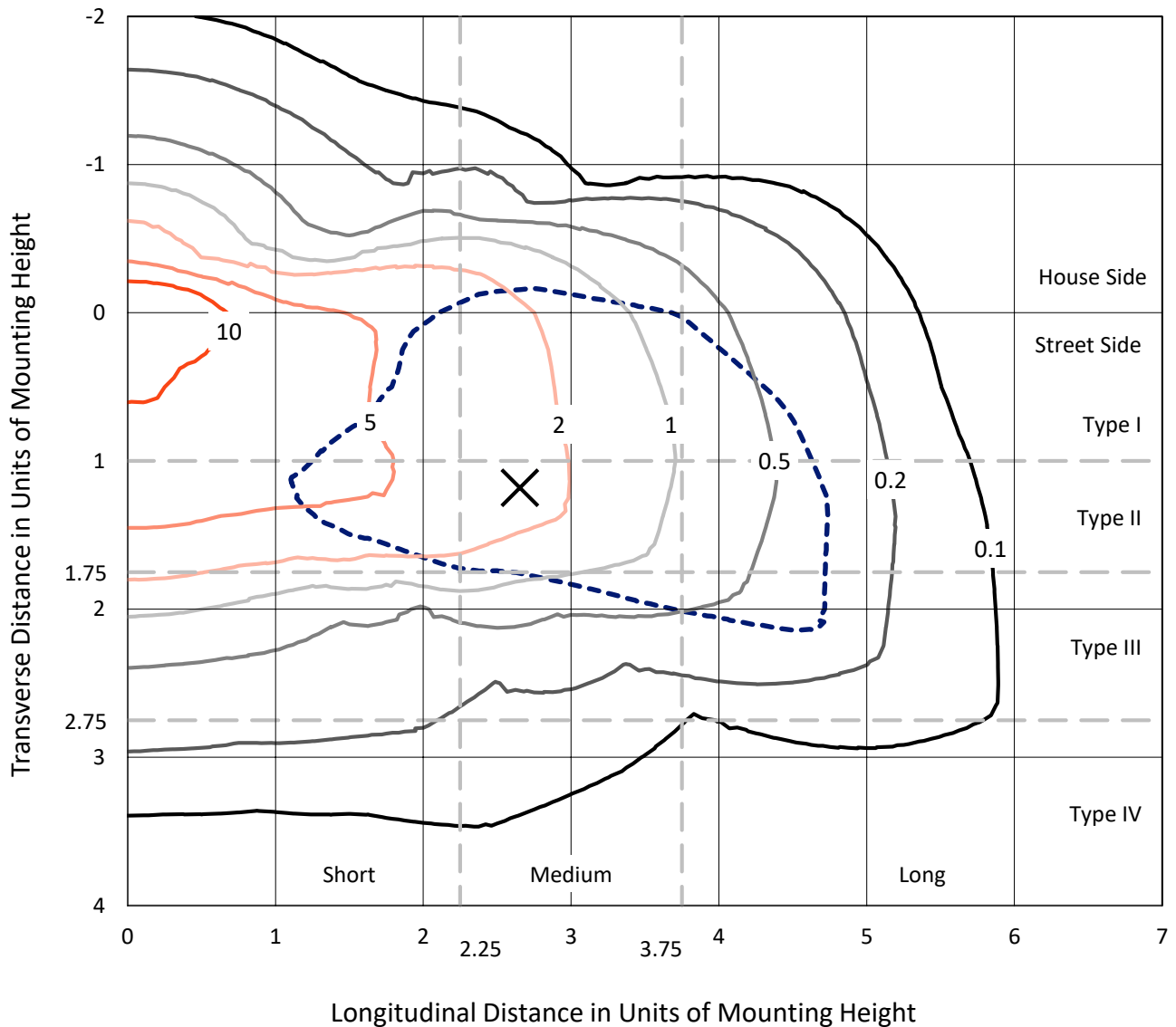
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

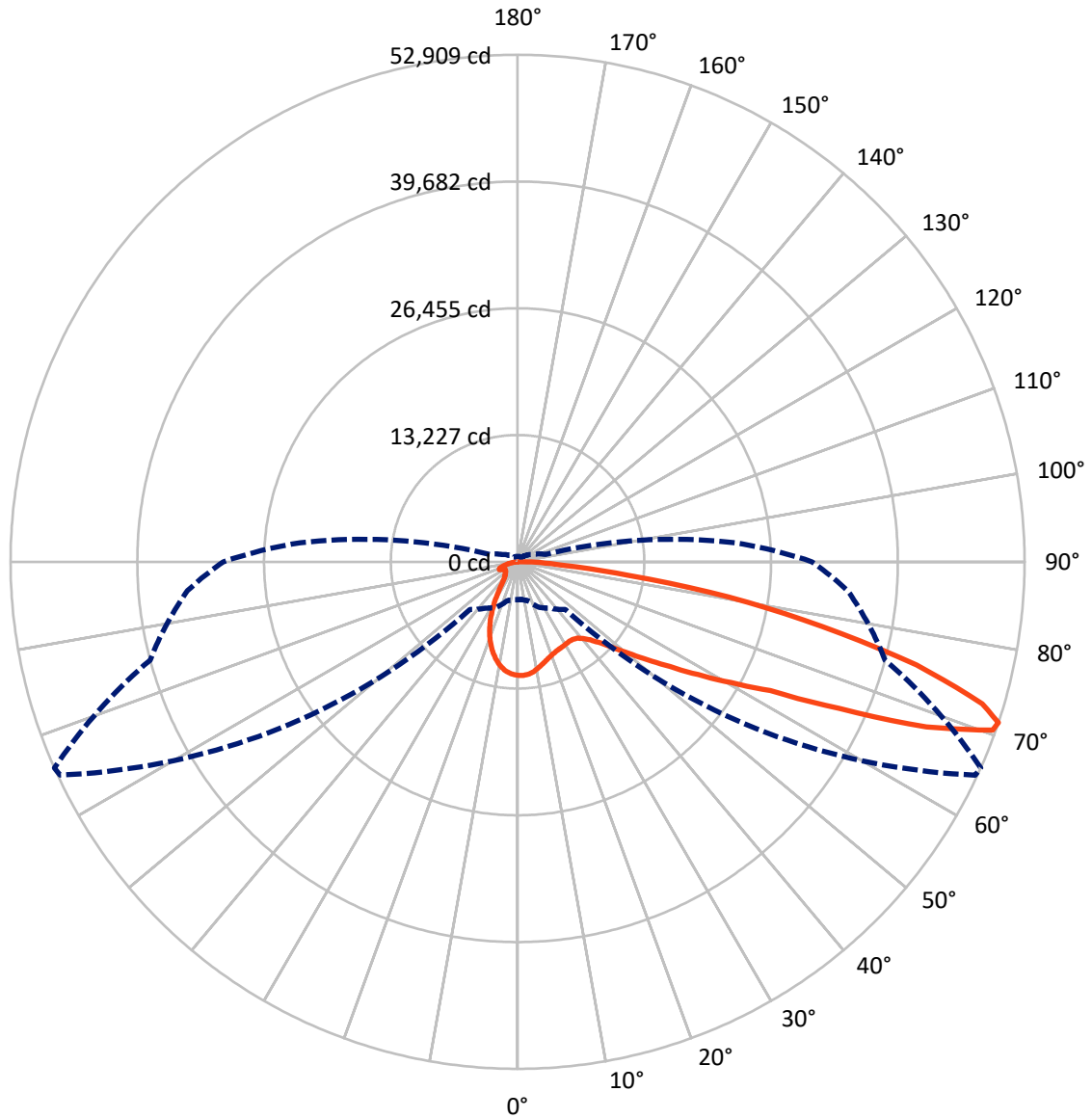
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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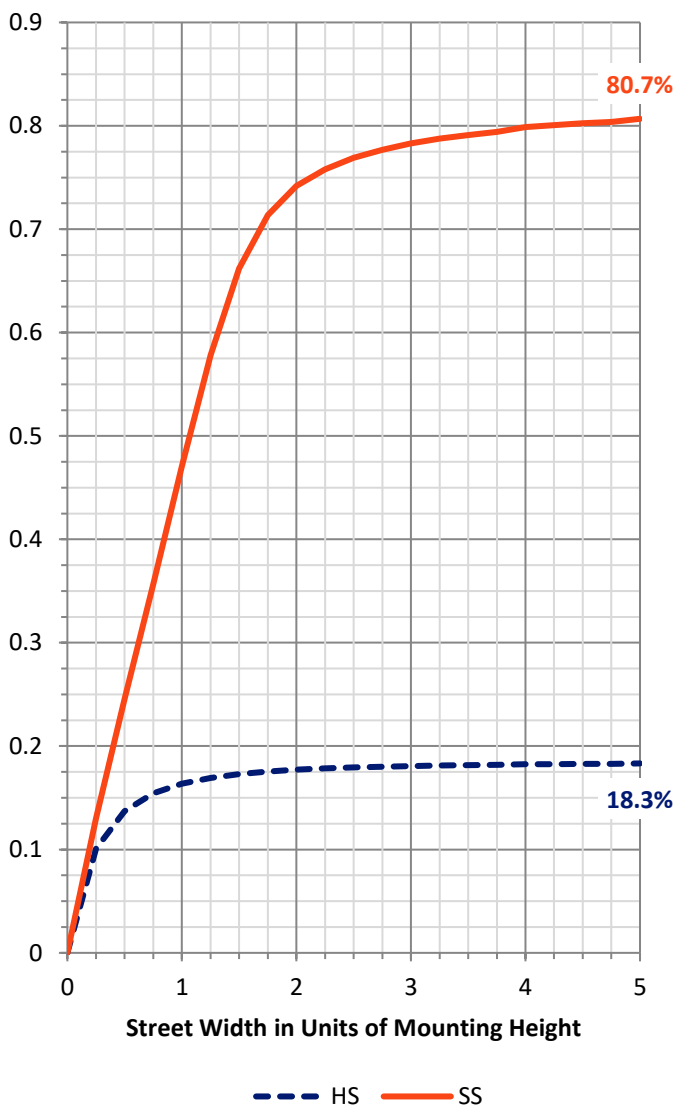
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9587.3	0.0	9587.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	42144.4	0.0	42144.4
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	51731.6	0.0	51731.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1043.1	2.0
10°-20°	2501.9	4.8
20°-30°	3360.7	6.5
30°-40°	4420.9	8.5
40°-50°	6431.3	12.4
50°-60°	10046.4	19.4
60°-70°	12584.7	24.3
70°-80°	9599.3	18.6
80°-90°	1743.1	3.4
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°	51731.6	100.0
0°-180°	51731.6	100.0

**Coefficient of Utilization**

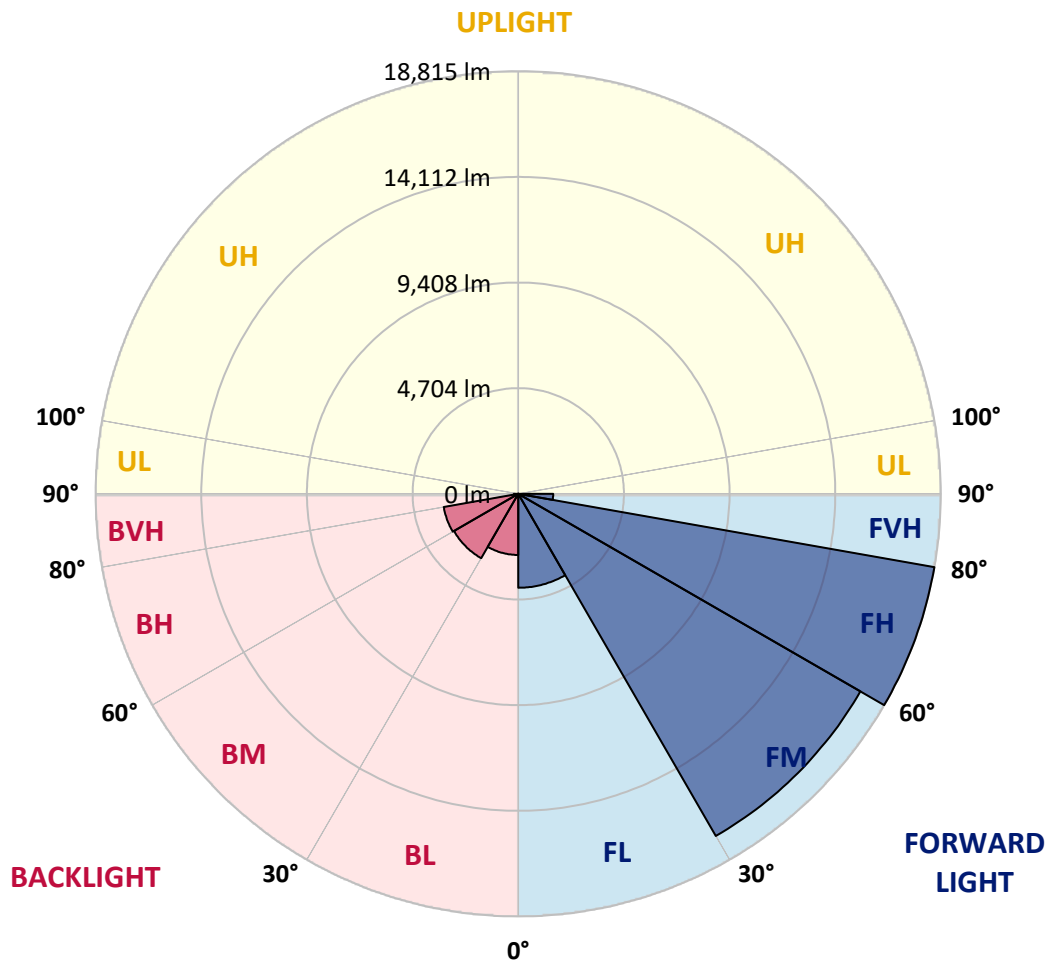


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4183.2	8.1			
FM (30°-60°)	17591.3	34.0			
FH (60°-80°)	18815.3	36.4			G5
FVH (80°-90°)	1554.4	3.0			G5
BL (0°-30°)	2722.5	5.3	B4/5000		
BM (30°-60°)	3307.3	6.4	B3/5000		
BH (60°-80°)	3368.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	188.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7
2.5°	11631.0	11613.1	11666.7	11722.1	11743.6	11779.2	11832.9	11863.3	11861.4	11866.8	11848.9
5°	10859.4	10836.2	10943.4	11030.9	11198.8	11388.1	11618.5	11782.9	11786.4	11879.3	11904.3
7.5°	10128.9	10112.9	10236.1	10377.2	10571.9	10861.2	11234.6	11588.2	11609.6	11861.4	11949.0
10°	9543.1	9539.5	9659.2	9812.8	10039.7	10362.9	10791.6	11309.5	11341.7	11775.7	11956.1
12.5°	9085.8	9093.0	9196.6	9371.6	9611.0	9948.6	10412.9	10996.9	11048.8	11640.0	11915.1
15°	8748.3	8776.9	8860.8	9037.6	9273.4	9616.3	10093.2	10707.6	10786.2	11488.1	11891.8
17.5°	8555.3	8587.6	8646.4	8793.0	9014.4	9344.8	9796.7	10470.0	10541.5	11372.1	11893.6
20°	8498.2	8525.1	8559.0	8648.2	8835.8	9135.9	9562.7	10255.8	10332.5	11279.2	11911.4
22.5°	8610.8	8630.4	8634.0	8626.8	8741.2	8985.8	9393.1	10098.5	10180.7	11218.4	11923.9
25°	8851.8	8878.7	8859.0	8793.0	8755.4	8905.4	9305.5	9994.9	10077.1	11173.8	11898.9
27.5°	9214.4	9218.0	9201.9	9116.2	8939.4	8914.4	9278.8	9934.2	10012.8	11122.0	11847.1
30°	9707.4	9730.7	9702.1	9586.0	9296.6	9057.3	9310.9	9875.3	9946.8	11055.9	11763.2
32.5°	10284.3	10341.5	10339.7	10218.2	9803.9	9377.0	9443.1	9839.6	9895.0	10986.2	11661.4
35°	10882.6	10961.2	11107.7	11055.9	10543.3	9882.4	9696.7	9896.8	9934.2	10977.4	11589.9
37.5°	11504.2	11582.8	11884.7	12024.0	11423.8	10605.9	10096.8	10098.5	10116.4	11086.3	11584.6
40°	12154.4	12238.3	12692.0	13054.5	12565.2	11522.0	10741.6	10520.1	10500.4	11354.2	11690.0
42.5°	13065.2	13140.3	13685.0	14147.6	13831.5	12695.5	11632.8	11170.2	11129.1	11879.3	12027.6
45°	14217.3	14281.6	14860.2	15355.1	15192.5	14035.1	12752.7	12065.0	12057.9	12754.5	12711.6
47.5°	15587.2	15637.2	16156.9	16635.7	16694.6	15576.5	14160.2	13445.7	13329.6	13954.8	13770.8
50°	17014.3	17069.7	17423.3	17937.7	18375.3	17639.4	15971.2	15137.1	14981.7	15539.0	15271.0
52.5°	17959.1	18032.3	18339.6	18991.6	20265.0	19900.7	18112.7	17187.5	16951.8	17459.1	17253.7
55°	17537.6	17701.9	18171.7	19216.5	21776.0	23354.9	20754.4	19579.2	19313.0	19734.6	19613.1
57.5°	15621.1	15846.2	16487.4	18100.2	21988.5	26398.5	24748.1	22395.8	22208.3	22086.8	22142.1
60°	12118.6	12334.7	13129.5	15231.8	20507.9	28620.3	30758.3	25868.0	25596.5	24448.0	24498.0
62.5°	8576.9	8467.9	9012.6	10550.4	16664.3	28881.0	37597.3	30511.8	29618.7	26941.4	26721.7
65°	6540.7	6515.6	6760.3	7249.8	10093.2	25760.8	41671.3	38317.0	36922.1	29874.2	29356.2
67.5°	5374.4	5329.7	5570.8	6283.5	6499.6	16619.6	41760.6	47372.5	46002.5	33524.9	32403.2
70°	4418.8	4368.8	4593.8	5513.6	6006.6	8428.5	35146.7	52675.4	52602.2	38147.3	34703.8
71°	3961.6	3925.8	4195.5	5217.1	5901.3	7024.7	30345.7	52689.7	52909.4	39712.0	34568.1
72.5°	3225.7	3238.2	3524.0	4643.9	5822.6	6203.1	22302.9	50233.8	50698.2	41203.4	33333.8
75°	2143.3	2154.0	2529.2	3572.2	5645.8	6069.1	12258.0	42151.8	43005.5	40310.3	30417.2
77.5°	1439.6	1436.0	1691.4	2450.5	4918.9	6069.1	7187.3	31526.3	32464.0	32074.6	23449.6
80°	991.3	984.2	1164.5	1691.4	3724.0	6142.3	5556.5	22094.0	22377.9	17321.5	9530.6
82.5°	607.3	612.6	760.9	1194.9	2534.5	5528.0	5245.7	12047.1	11738.2	4858.2	2380.8
85°	348.3	346.5	485.8	809.1	1627.1	4665.3	5115.4	5185.0	4756.4	1462.8	860.9
87.5°	125.0	134.0	260.7	448.4	932.4	3248.9	4340.2	2697.0	2430.9	660.8	389.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7	11850.7
2.5°	11836.4	11847.1	11834.7	11763.2	11702.5	11604.2	11548.9	11472.1	11448.8	11438.1	11466.7
5°	11881.1	11884.7	11779.2	11591.7	11381.0	11132.7	10954.1	10734.4	10630.8	10586.2	10614.7
7.5°	11922.1	11906.1	11675.6	11316.7	10927.3	10495.1	10111.0	9759.2	9553.8	9469.8	9477.0
10°	11927.5	11859.6	11489.9	10934.4	10330.8	9696.7	9107.3	8564.3	8221.4	7998.1	8066.0
12.5°	11872.1	11757.8	11216.7	10439.7	9602.0	8737.5	7941.0	7126.5	6637.1	6410.3	6417.4
15°	11829.3	11622.1	10880.8	9857.5	8732.2	7587.4	6499.6	5542.2	5020.7	4788.5	4679.5
17.5°	11793.6	11475.6	10491.5	9201.9	7705.2	6253.1	4945.7	4091.9	3806.1	3738.3	3709.7
20°	11743.6	11320.3	10057.5	8442.9	6535.3	4759.9	3611.5	3190.0	3191.8	3270.3	3281.0
22.5°	11673.9	11143.5	9594.8	7590.9	5279.7	3466.8	2831.0	2709.5	2832.7	2982.8	3009.6
25°	11570.3	10934.4	9080.4	6649.6	4025.9	2664.9	2418.4	2413.0	2563.1	2720.2	2743.4
27.5°	11423.8	10661.2	8508.9	5638.7	2966.7	2264.8	2166.5	2204.0	2314.8	2429.1	2438.0
30°	11227.4	10343.3	7878.5	4572.4	2325.5	2016.5	2005.8	2039.7	2107.6	2187.9	2195.1
32.5°	11011.3	10020.0	7205.1	3540.1	1991.5	1882.6	1893.3	1909.3	1941.4	1973.7	1980.7
35°	10814.8	9689.6	6515.6	2689.8	1832.5	1795.0	1787.9	1784.3	1787.9	1777.2	1779.0
37.5°	10687.9	9416.3	5797.7	2141.5	1741.4	1718.2	1696.8	1670.0	1639.6	1621.7	1625.4
40°	10641.5	9212.6	5070.7	1850.4	1666.4	1650.3	1609.2	1552.1	1516.4	1505.7	1505.7
42.5°	10766.5	9107.3	4368.8	1703.9	1603.9	1577.1	1509.3	1443.2	1416.3	1414.6	1412.8
45°	11148.8	9150.1	3700.8	1623.6	1546.7	1494.9	1405.6	1350.3	1332.4	1336.0	1334.3
47.5°	11834.7	9419.8	3129.3	1569.9	1489.6	1421.7	1321.7	1277.1	1255.6	1255.6	1257.4
50°	13001.0	10050.4	2673.8	1525.3	1441.4	1353.8	1260.9	1205.6	1177.0	1175.2	1175.2
52.5°	14699.5	11179.1	2389.8	1487.8	1387.8	1293.2	1200.3	1130.6	1096.6	1089.5	1085.9
55°	16828.6	12797.3	2311.2	1462.8	1316.4	1227.0	1127.0	1057.4	1019.9	1003.7	1002.0
57.5°	19209.4	14765.6	2466.6	1432.4	1243.2	1148.4	1046.7	980.5	941.2	921.6	919.8
60°	21618.9	16914.3	3100.7	1389.6	1182.4	1062.7	964.5	903.8	864.5	843.1	839.4
62.5°	24031.9	19179.1	4395.6	1386.0	1139.6	980.5	880.5	828.7	791.3	768.1	762.7
65°	26753.9	21658.1	5867.4	1480.7	1125.2	905.6	794.8	753.7	721.6	700.2	698.4
67.5°	29879.5	24456.9	5726.2	1675.4	1173.5	837.6	714.4	682.3	659.1	641.2	639.4
70°	31345.9	24019.4	3559.7	1812.9	1241.3	771.6	637.6	614.4	596.6	584.1	578.7
71°	30731.5	22806.6	2984.6	1796.8	1234.2	743.0	607.3	589.4	571.5	560.8	555.5
72.5°	29056.1	20799.0	2489.8	1671.8	1153.8	691.2	568.0	550.1	534.1	521.6	517.9
75°	26073.4	18575.3	1993.2	1336.0	919.8	584.1	498.3	478.6	466.1	459.1	451.9
77.5°	19166.6	13256.4	1541.4	1055.5	677.0	476.9	425.1	410.8	398.3	387.6	382.2
80°	7342.6	5135.0	1037.7	787.6	496.5	376.9	342.9	335.8	323.2	316.2	316.2
82.5°	1977.2	1534.3	553.7	476.9	332.2	275.1	262.5	259.0	248.3	234.0	235.8
85°	800.2	677.0	310.8	262.5	203.6	162.6	176.8	178.6	166.1	148.2	150.1
87.5°	351.8	287.6	173.3	116.1	89.3	62.5	80.4	80.4	73.2	60.7	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)