

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: P651126

Luminaire Tested: **GALN-SA9C-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53127.6 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

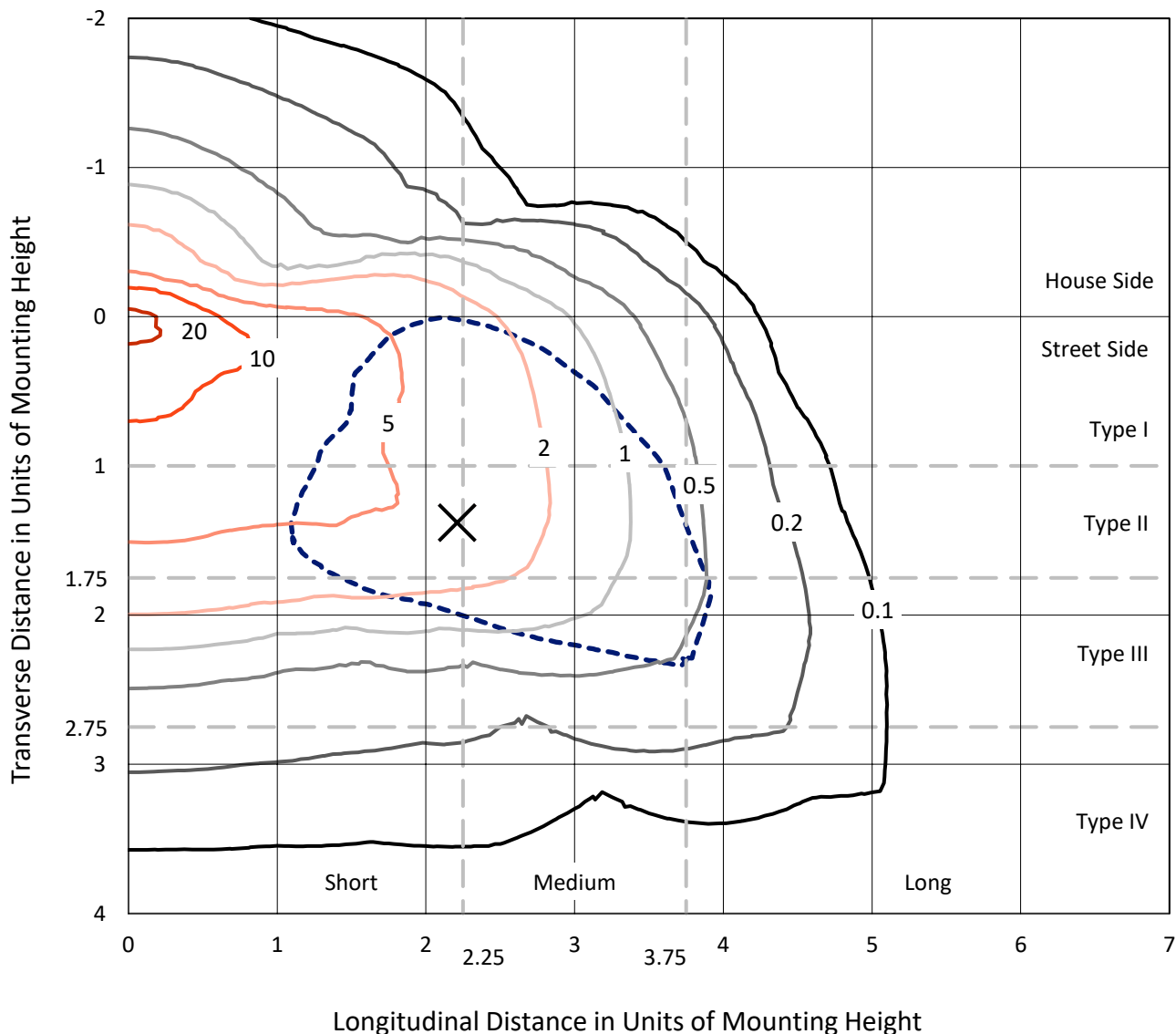
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

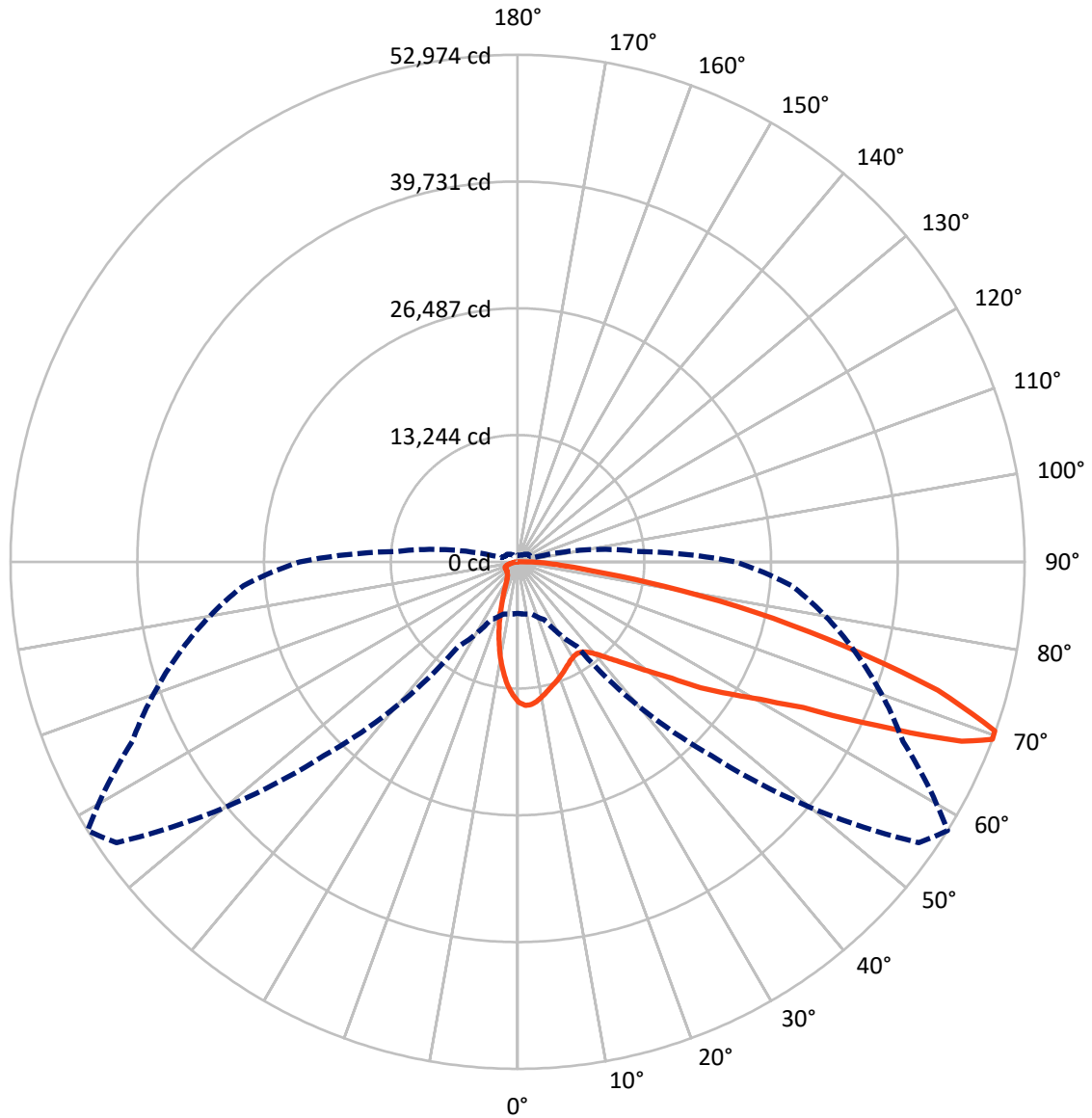
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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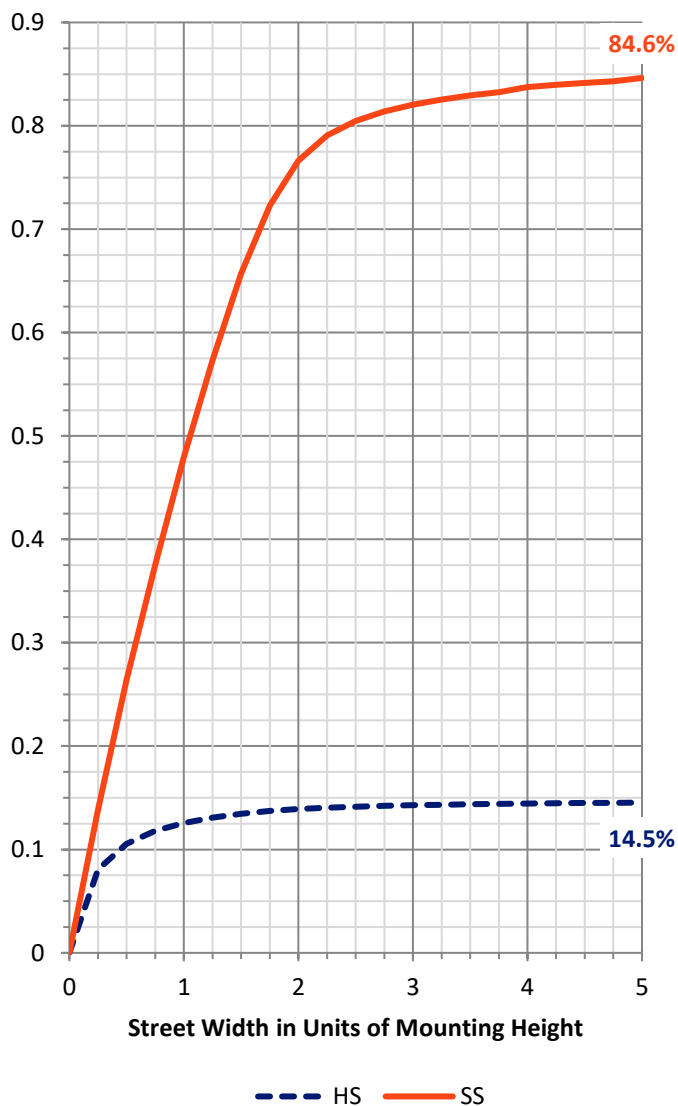
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7785.9	0.0	7785.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	45341.8	0.0	45341.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	53127.6	0.0	53127.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1246.8	2.3
10°-20°	2737.8	5.2
20°-30°	3537.2	6.7
30°-40°	4594.2	8.6
40°-50°	6679.3	12.6
50°-60°	10657.9	20.1
60°-70°	14237.7	26.8
70°-80°	8207.4	15.4
80°-90°	1229.3	2.3
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°	53127.6	100.0
0°-180°	53127.6	100.0

**Coefficient of Utilization**



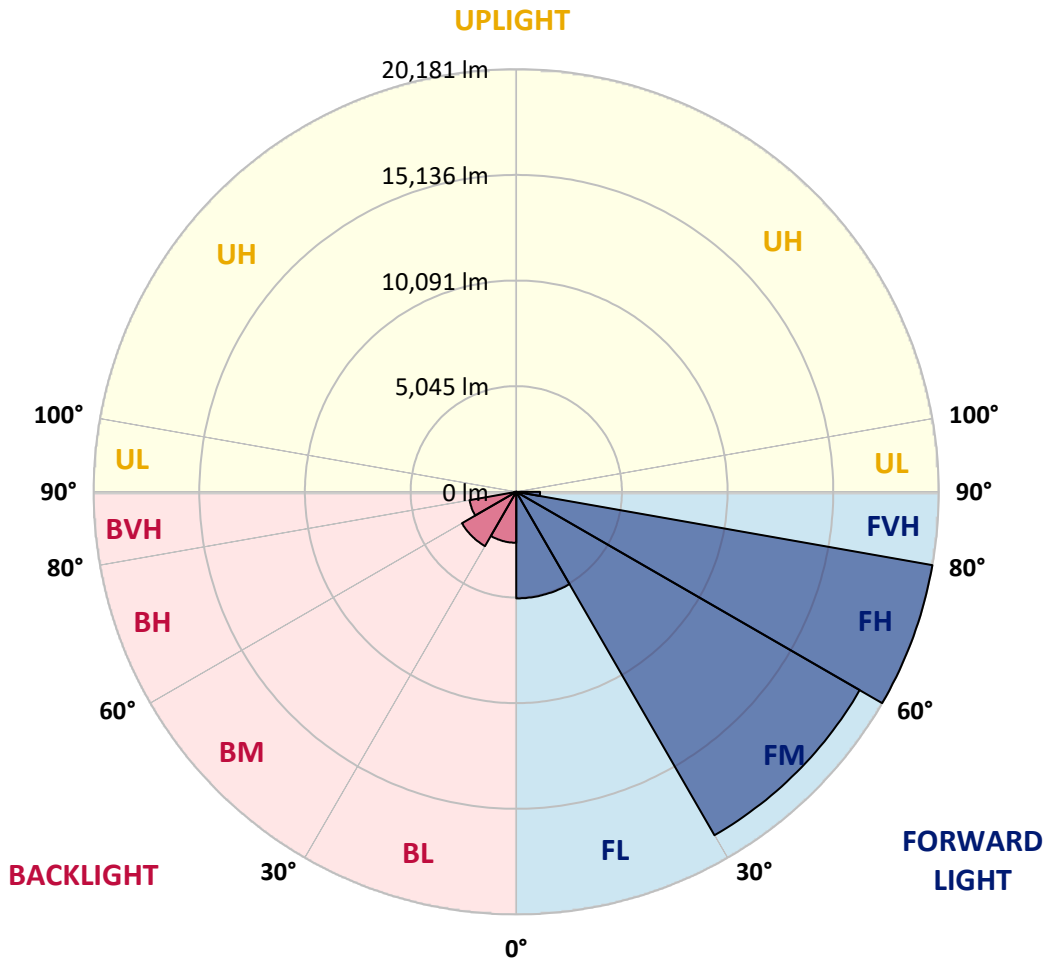
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5088.3	9.6			
FM (30°-60°)	18937.2	35.6			
FH (60°-80°)	20181.1	38.0			G5
FVH (80°-90°)	1135.1	2.1			G5
BL (0°-30°)	2433.5	4.6	B3/2500		
BM (30°-60°)	2994.2	5.6	B3/5000		
BH (60°-80°)	2264.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	94.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3
2.5°	15226.6	15268.0	15256.2	15241.4	15217.6	15152.5	15045.8	15028.0	14959.9	14814.7	14634.0
5°	14992.5	15028.0	15031.0	15051.7	15081.4	15069.5	14992.5	14983.6	14882.8	14687.3	14385.1
7.5°	14189.5	14237.0	14340.6	14456.2	14559.9	14657.7	14681.3	14696.2	14634.0	14408.8	14005.8
10°	13285.9	13333.2	13380.6	13552.5	13807.3	14050.3	14251.8	14278.4	14293.2	14085.8	13594.0
12.5°	12284.3	12382.1	12482.9	12737.7	13078.4	13460.6	13816.2	13872.5	13973.2	13816.2	13238.4
15°	11434.0	11534.7	11679.9	11908.1	12319.9	12871.0	13371.7	13463.6	13662.1	13582.2	12906.6
17.5°	10844.4	10879.9	10980.7	11241.4	11685.9	12266.6	12936.2	13119.9	13436.9	13416.2	12622.1
20°	10379.2	10423.6	10485.8	10645.9	11108.1	11721.4	12530.3	12767.3	13197.0	13268.0	12340.7
22.5°	10183.7	10216.2	10207.3	10293.3	10607.4	11223.6	12118.4	12399.9	12983.6	13167.3	12079.9
25°	10195.4	10225.1	10180.6	10160.0	10346.6	10785.1	11688.8	12047.3	12811.8	13099.2	11842.9
27.5°	10394.0	10414.8	10331.8	10248.8	10263.6	10512.5	11333.2	11730.3	12666.6	13128.8	11644.3
30°	10660.7	10699.2	10645.9	10545.1	10435.5	10447.3	11105.1	11496.2	12598.4	13232.5	11549.5
32.5°	11004.4	11039.9	11016.2	10936.2	10794.0	10637.0	11048.8	11410.3	12604.3	13442.9	11528.8
35°	11365.9	11436.9	11475.4	11469.6	11354.0	11081.4	11271.0	11570.3	12746.5	13795.4	11650.3
37.5°	11774.8	11834.0	11999.9	12106.6	11999.9	11682.8	11771.7	11979.2	13060.6	14305.1	11917.0
40°	12171.8	12260.7	12503.7	12835.4	12794.0	12515.4	12536.2	12672.5	13614.7	15063.6	12438.4
42.5°	12586.6	12693.2	13116.9	13608.8	13706.5	13490.2	13546.6	13668.0	14402.9	16115.4	13333.2
45°	13119.9	13247.3	13768.8	14382.1	14767.3	14634.0	14793.9	14853.2	15457.7	17484.3	14512.5
47.5°	13807.3	13955.5	14598.4	15362.9	15908.0	16029.5	16308.0	16272.5	16764.3	19105.1	16041.4
50°	14965.8	15048.8	15656.1	16435.4	17185.1	17733.2	18035.4	18091.7	18385.0	20681.4	17751.0
52.5°	16343.6	16417.7	16856.2	17537.6	18476.9	19638.4	20385.0	20201.3	20272.5	22601.3	19751.0
55°	17893.2	18017.7	18296.1	18749.5	19967.3	21676.9	23176.1	23220.6	22432.4	24438.4	21668.0
57.5°	19093.2	19303.6	19780.6	20426.5	21970.2	23943.5	25958.3	25988.0	24980.6	26399.8	23783.6
60°	18488.7	18737.6	19828.0	21401.3	24598.3	27899.1	29282.8	29113.8	27460.5	28633.9	26364.3
62.5°	15881.4	15925.8	17511.0	19970.2	25407.2	33190.9	34230.9	33516.8	30770.2	31466.4	28986.4
65°	10278.4	10568.8	11825.1	15271.0	22749.5	36127.2	42900.4	41250.0	35410.1	34681.2	31182.0
67.5°	6488.8	6414.7	6936.2	8719.9	15647.3	33540.5	50298.9	50038.2	41478.2	36710.8	30657.6
69°	5380.7	5463.6	5641.4	6684.4	10767.3	28636.8	51172.9	52974.4	44420.4	36550.9	28752.4
70°	4880.0	4918.5	5105.1	5925.9	8308.1	23985.0	49738.9	52894.4	45576.0	35881.2	27371.7
72.5°	3872.6	3869.6	4189.6	4930.4	6210.4	13691.7	40841.1	45922.6	44284.1	32764.2	22616.1
75°	2942.2	2989.6	3342.2	4171.8	5721.4	7481.5	28500.6	35365.6	35368.6	25878.3	14112.5
77.5°	2121.5	2151.1	2562.9	3502.2	5389.5	6065.1	18983.6	25365.7	23845.7	11857.7	4435.5
80°	1389.6	1407.4	1721.4	2773.3	4859.2	5721.4	11256.2	15525.8	11247.4	3146.6	1466.6
82.5°	761.4	850.3	1051.8	1795.5	3899.2	5285.9	6841.5	7857.7	4219.2	1401.4	764.5
85°	382.2	406.0	592.6	1048.9	2548.1	4373.3	4764.4	4506.7	2177.8	696.3	397.0
87.5°	112.6	142.2	245.9	406.0	1034.1	2278.5	2651.8	2379.3	838.5	251.9	82.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3	14681.3
2.5°	14559.9	14506.6	14269.5	14056.2	13860.6	13653.2	13478.5	13324.4	13339.2	13342.1	13185.1
5°	14228.0	14106.6	13656.2	13235.5	12879.9	12429.6	12044.4	11795.4	11671.1	11505.1	11564.3
7.5°	13777.7	13543.6	12918.4	12219.1	11564.3	10980.7	10346.6	9911.0	9632.6	9362.9	9398.4
10°	13312.5	12936.2	12026.6	11102.1	10254.7	9321.4	8512.5	7819.2	7303.7	7111.1	6983.7
12.5°	12835.4	12340.7	11185.1	9955.5	8785.1	7668.1	6521.5	5777.8	5208.8	4906.6	4945.2
15°	12399.9	11798.5	10308.1	8808.8	7288.9	5958.5	4814.8	4106.6	3709.6	3626.6	3674.1
17.5°	11996.9	11208.8	9487.3	7694.7	5920.0	4468.1	3617.7	3217.8	3057.8	3013.3	3010.4
20°	11582.2	10708.0	8565.8	6503.6	4613.3	3463.7	2968.9	2782.2	2752.6	2770.3	2773.3
22.5°	11161.4	10088.8	7617.7	5321.4	3674.1	2832.6	2595.6	2545.2	2568.8	2610.4	2616.3
25°	10773.3	9543.7	6705.1	4284.4	2933.3	2488.9	2373.3	2373.3	2426.6	2488.9	2491.8
27.5°	10453.3	9016.2	5795.5	3401.4	2456.3	2240.0	2201.5	2222.2	2296.3	2343.7	2346.6
30°	10189.6	8524.4	4936.2	2725.9	2160.0	2041.4	2032.6	2068.1	2121.5	2165.9	2168.9
32.5°	9991.0	8091.8	4133.3	2290.4	1955.6	1890.3	1887.4	1914.0	1943.7	1955.6	1967.4
35°	9914.0	7733.2	3398.5	2014.8	1819.3	1777.8	1777.8	1774.8	1786.6	1792.6	1798.5
37.5°	9976.2	7457.7	2829.6	1837.0	1718.5	1688.9	1671.1	1653.3	1647.4	1647.4	1650.4
40°	10239.9	7312.6	2405.9	1721.4	1647.4	1602.9	1570.4	1549.6	1528.9	1534.8	1540.7
42.5°	10800.0	7339.2	2118.5	1644.4	1585.2	1523.0	1475.5	1451.8	1437.0	1454.8	1451.8
45°	11691.8	7605.8	1934.8	1591.1	1523.0	1443.0	1398.5	1374.8	1374.8	1401.4	1410.4
47.5°	12939.1	8115.5	1837.0	1549.6	1475.5	1380.8	1336.3	1318.5	1324.4	1368.9	1371.8
50°	14462.1	9001.4	1819.3	1528.9	1451.8	1336.3	1285.9	1268.1	1282.9	1330.4	1336.3
52.5°	16142.1	10142.1	1905.2	1531.9	1431.1	1309.6	1244.4	1217.8	1232.6	1271.1	1282.9
55°	18133.2	11570.3	2127.4	1543.7	1401.4	1294.8	1214.8	1155.5	1173.4	1200.0	1203.0
57.5°	20165.8	13371.7	2518.5	1546.7	1377.7	1268.1	1164.4	1087.4	1087.4	1105.2	1114.1
60°	22648.7	15333.2	3034.1	1549.6	1380.8	1229.6	1096.3	1010.4	998.5	1007.4	1010.4
62.5°	25113.9	16974.7	3119.9	1540.7	1410.4	1191.1	1022.2	933.3	912.6	909.6	903.7
65°	26201.3	16669.5	2557.0	1499.3	1443.0	1167.4	962.9	859.2	823.7	811.8	811.8
67.5°	24429.5	14100.6	1922.9	1443.0	1422.2	1143.7	906.7	797.0	755.6	731.8	731.8
69°	22764.3	12542.2	1727.4	1404.5	1368.9	1105.2	871.1	764.5	714.1	687.4	678.5
70°	21478.4	11469.6	1644.4	1371.8	1318.5	1060.8	844.4	740.8	684.4	654.8	648.9
72.5°	17140.6	8998.4	1440.0	1247.4	1123.0	891.9	749.6	666.7	613.3	580.7	571.9
75°	9878.5	4877.0	1194.1	1084.5	903.7	693.3	634.0	580.7	539.2	509.6	500.7
77.5°	3040.0	1884.4	865.2	856.3	663.7	536.3	506.7	485.9	456.3	423.7	417.8
80°	1280.0	960.0	586.7	577.8	441.4	373.3	364.4	361.5	349.6	322.9	314.1
82.5°	702.2	542.2	408.9	355.6	266.7	216.3	225.2	228.2	219.2	192.6	174.8
85°	343.7	296.3	198.5	160.0	121.4	77.0	74.1	88.9	82.9	59.3	65.2
87.5°	68.1	82.9	53.3	23.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0
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)