

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: P459479

Luminaire Tested: **GALN-SA9B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459479  
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-SA9B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 47629 lumens  
Efficiency: N/A  
Efficacy: 130.8 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

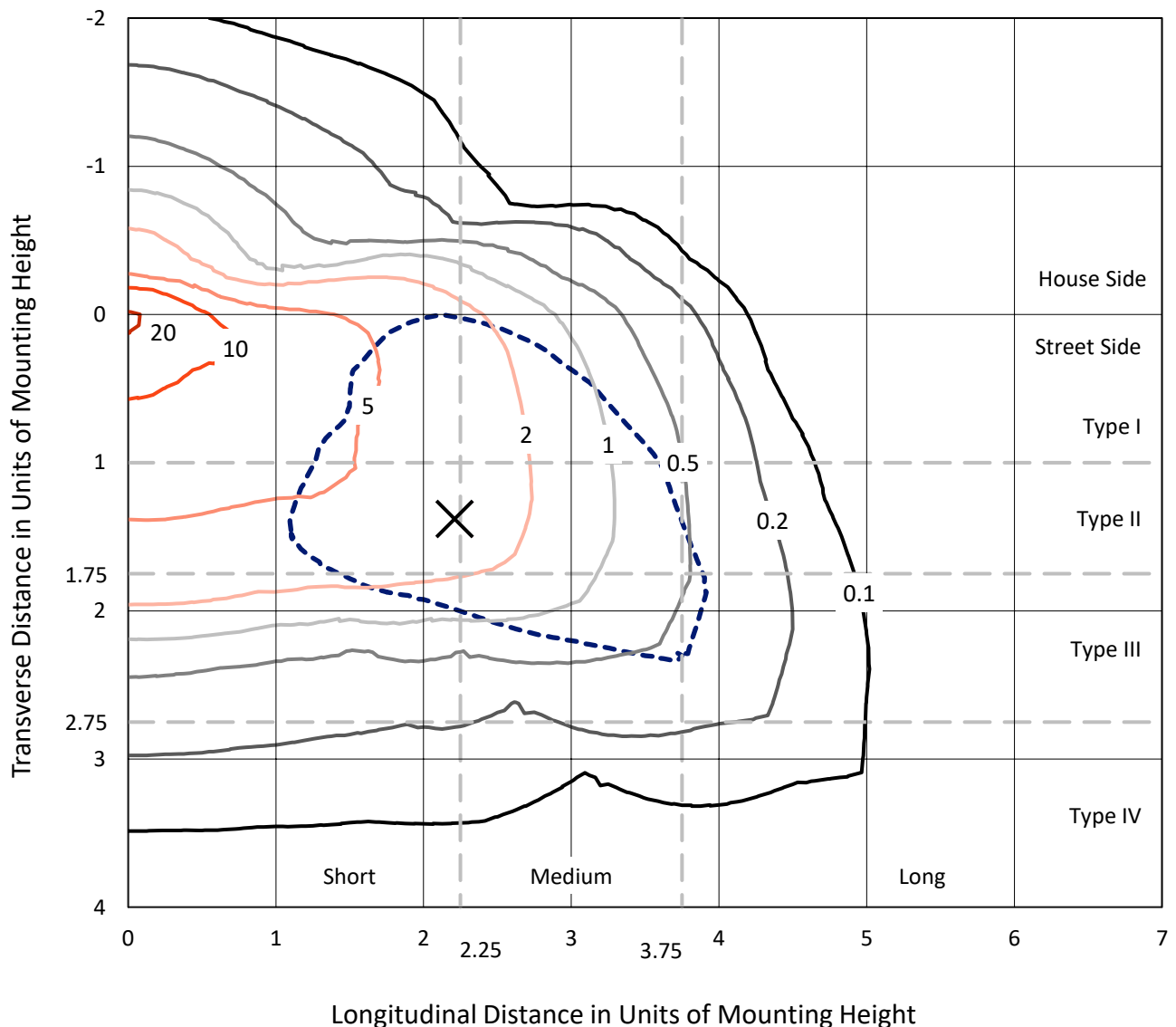
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

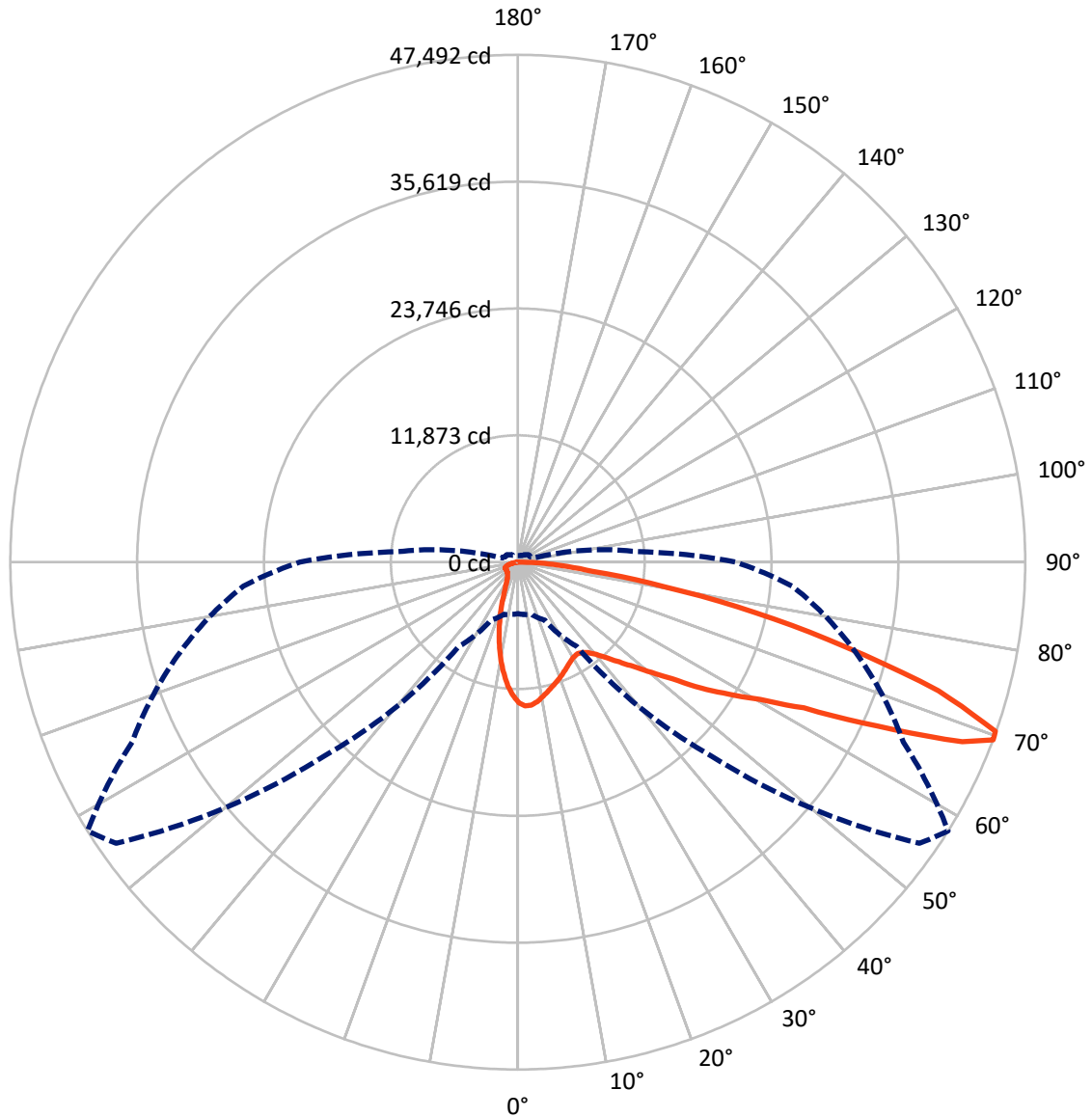
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 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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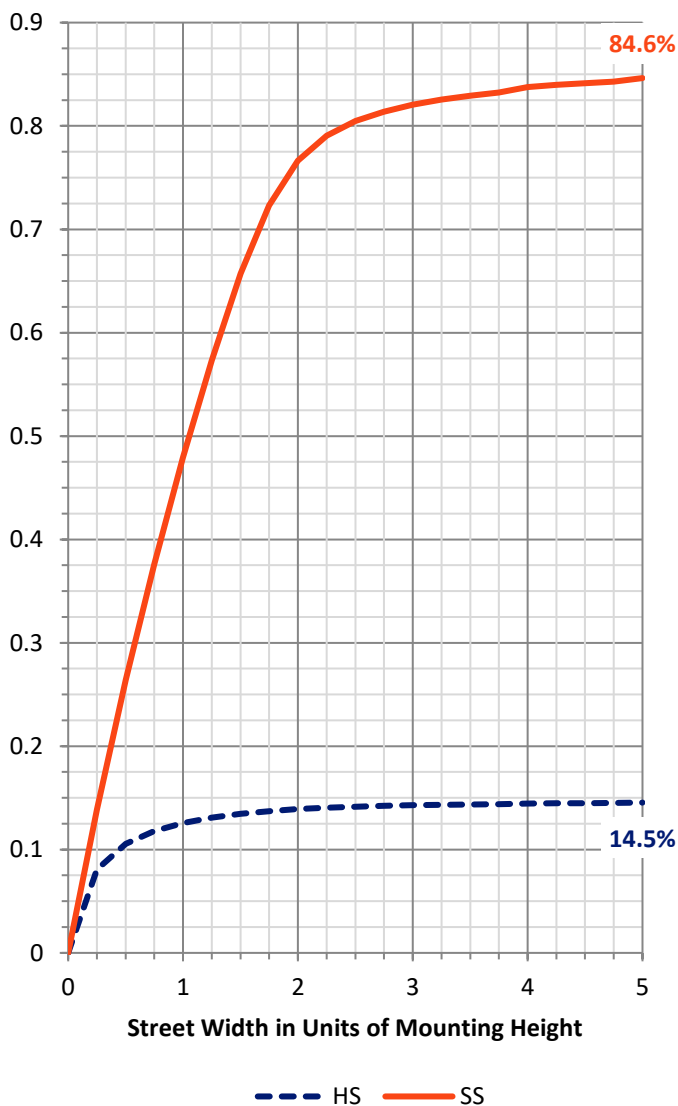
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6980.0	0.0	6980.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	40649.0	0.0	40649.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	47629.0	0.0	47629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1117.8	2.3
10°-20°	2454.4	5.2
20°-30°	3171.1	6.7
30°-40°	4118.7	8.6
40°-50°	5988.0	12.6
50°-60°	9554.9	20.1
60°-70°	12764.1	26.8
70°-80°	7358.0	15.4
80°-90°	1102.1	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°	47629.0	100.0
0°-180°	47629.0	100.0

**Coefficient of Utilization**



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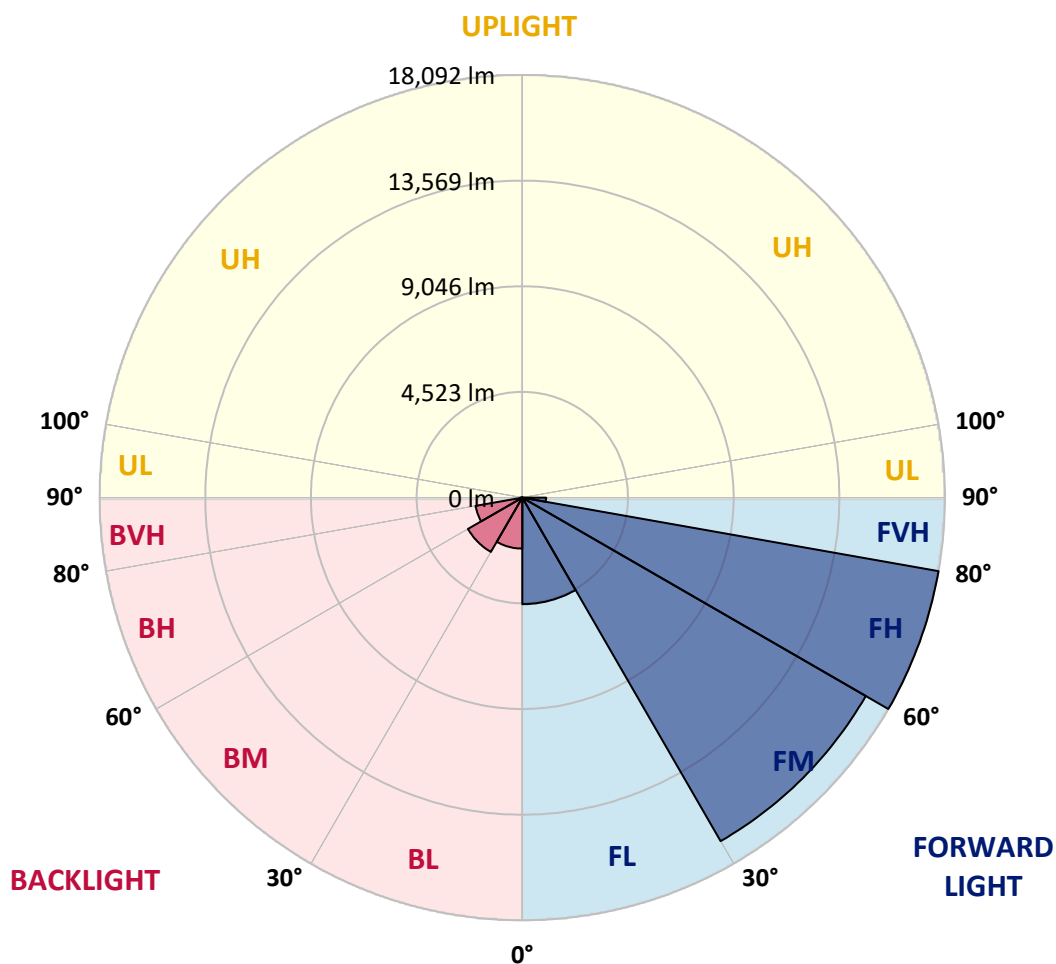
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4561.6	9.6			
FM	(30°-60°)	16977.3	35.6			
FH	(60°-80°)	18092.4	38.0			G5
FVH	(80°-90°)	1017.6	2.1			G5
BL	(0°-30°)	2181.7	4.6	B3/2500		
BM	(30°-60°)	2684.3	5.6	B3/5000		
BH	(60°-80°)	2029.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	84.4	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°	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9
2.5°	13650.6	13687.8	13677.2	13663.9	13642.7	13584.2	13488.6	13472.7	13411.6	13281.4	13119.4
5°	13440.8	13472.7	13475.3	13493.9	13520.5	13509.8	13440.8	13432.8	13342.5	13167.2	12896.2
7.5°	12720.9	12763.4	12856.4	12960.0	13053.0	13140.6	13161.9	13175.1	13119.4	12917.5	12556.2
10°	11910.8	11953.3	11995.8	12149.8	12378.3	12596.1	12776.7	12800.6	12813.9	12628.0	12187.0
12.5°	11012.9	11100.6	11190.9	11419.3	11724.8	12067.5	12386.2	12436.7	12527.0	12386.2	11868.3
15°	10250.6	10340.9	10471.1	10675.6	11044.8	11538.9	11987.8	12070.1	12248.1	12176.4	11570.8
17.5°	9722.0	9753.9	9844.2	10077.9	10476.4	10997.0	11597.3	11762.0	12046.2	12027.6	11315.8
20°	9304.9	9344.8	9400.6	9544.0	9958.4	10508.2	11233.4	11445.9	11831.1	11894.8	11063.4
22.5°	9129.6	9158.9	9150.9	9227.9	9509.5	10062.0	10864.2	11116.5	11639.8	11804.5	10829.7
25°	9140.3	9166.8	9127.0	9108.4	9275.7	9668.9	10479.0	10800.4	11485.8	11743.4	10617.2
27.5°	9318.2	9336.8	9262.4	9188.1	9201.4	9424.5	10160.3	10516.2	11355.6	11770.0	10439.2
30°	9557.3	9591.8	9544.0	9453.7	9355.4	9366.0	9955.7	10306.4	11294.5	11862.9	10354.2
32.5°	9865.4	9897.3	9876.0	9804.3	9676.8	9536.0	9905.3	10229.3	11299.8	12051.5	10335.6
35°	10189.5	10253.2	10287.8	10282.5	10178.9	9934.5	10104.5	10372.8	11427.3	12367.6	10444.5
37.5°	10556.1	10609.2	10757.9	10853.6	10757.9	10473.7	10553.4	10739.3	11708.9	12824.5	10683.6
40°	10912.0	10991.7	11209.5	11507.0	11469.8	11220.1	11238.7	11360.9	12205.6	13504.5	11151.1
42.5°	11283.9	11379.5	11759.4	12200.3	12288.0	12094.0	12144.5	12253.4	12912.2	14447.5	11953.3
45°	11762.0	11876.2	12343.7	12893.6	13238.9	13119.4	13262.8	13315.9	13857.8	15674.7	13010.5
47.5°	12378.3	12511.1	13087.5	13772.8	14261.6	14370.5	14620.2	14588.3	15029.2	17127.7	14381.1
50°	13416.9	13491.2	14035.8	14734.4	15406.4	15897.8	16168.8	16219.2	16482.2	18540.8	15913.8
52.5°	14652.0	14718.4	15111.6	15722.5	16564.6	17605.8	18275.2	18110.5	18174.3	20262.1	17706.8
55°	16041.3	16152.8	16402.5	16808.9	17900.7	19433.3	20777.4	20817.3	20110.7	21909.0	19425.4
57.5°	17117.1	17305.7	17733.3	18312.4	19696.3	21465.4	23271.7	23298.2	22395.1	23667.5	21322.0
60°	16575.2	16798.3	17775.8	19186.3	22052.4	25011.5	26252.0	26100.6	24618.4	25670.3	23635.6
62.5°	14237.7	14277.5	15698.6	17903.3	22777.6	29755.6	30688.0	30047.8	27585.5	28209.7	25986.4
65°	9214.6	9475.0	10601.2	13690.5	20394.9	32388.0	38460.3	36980.7	31745.2	31091.8	27954.7
67.5°	5817.3	5750.8	6218.4	7817.4	14027.8	30069.1	45093.0	44859.3	37185.3	32911.3	27484.5
69°	4823.8	4898.2	5057.6	5992.6	9652.9	25672.9	45876.6	47491.6	39822.9	32767.9	25776.5
70°	4374.9	4409.4	4576.8	5312.6	7448.2	21502.6	44591.0	47419.9	40858.9	32167.6	24538.7
72.5°	3471.8	3469.1	3756.0	4420.0	5567.6	12274.7	36614.2	41169.7	39700.8	29373.1	20275.4
75°	2637.7	2680.2	2996.3	3740.0	5129.3	6707.1	25550.8	31705.4	31708.0	23199.9	12651.9
77.5°	1901.9	1928.5	2297.7	3139.7	4831.8	5437.4	17018.8	22740.4	21377.7	10630.4	3976.5
80°	1245.8	1261.7	1543.3	2486.3	4356.3	5129.3	10091.2	13918.9	10083.2	2821.0	1314.9
82.5°	682.7	762.4	943.0	1609.7	3495.7	4738.8	6133.4	7044.5	3782.5	1256.4	685.3
85°	342.7	363.9	531.3	940.3	2284.4	3920.7	4271.3	4040.2	1952.4	624.2	355.9
87.5°	100.9	127.5	220.5	363.9	927.0	2042.7	2377.4	2133.0	751.7	225.8	74.4
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°	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9	13161.9
2.5°	13053.0	13005.1	12792.6	12601.4	12426.1	12240.1	12083.4	11945.3	11958.6	11961.2	11820.4
5°	12755.5	12646.5	12242.8	11865.6	11546.8	11143.1	10797.8	10574.7	10463.1	10314.3	10367.5
7.5°	12351.7	12141.9	11581.4	10954.5	10367.5	9844.2	9275.7	8885.3	8635.6	8393.8	8425.7
10°	11934.7	11597.3	10781.8	9953.1	9193.4	8356.7	7631.5	7009.9	6547.7	6375.1	6260.9
12.5°	11507.0	11063.4	10027.5	8925.1	7875.9	6874.5	5846.5	5179.7	4669.7	4398.8	4433.3
15°	11116.5	10577.3	9241.2	7897.1	6534.4	5341.8	4316.5	3681.6	3325.7	3251.3	3293.8
17.5°	10755.3	10048.7	8505.4	6898.4	5307.2	4005.7	3243.3	2884.7	2741.3	2701.4	2698.8
20°	10383.4	9599.8	7679.3	5830.5	4135.8	3105.2	2661.6	2494.2	2467.7	2483.6	2486.3
22.5°	10006.2	9044.6	6829.3	4770.7	3293.8	2539.4	2326.9	2281.7	2303.0	2340.2	2345.5
25°	9658.2	8555.9	6011.2	3841.0	2629.7	2231.3	2127.7	2127.7	2175.5	2231.3	2233.9
27.5°	9371.4	8083.1	5195.7	3049.4	2202.1	2008.1	1973.6	1992.2	2058.6	2101.1	2103.8
30°	9134.9	7642.1	4425.4	2443.8	1936.4	1830.2	1822.2	1854.1	1901.9	1941.7	1944.4
32.5°	8957.0	7254.3	3705.5	2053.3	1753.1	1694.7	1692.1	1716.0	1742.5	1753.1	1763.8
35°	8887.9	6932.9	3046.8	1806.3	1631.0	1593.8	1593.8	1591.1	1601.7	1607.0	1612.4
37.5°	8943.7	6685.9	2536.7	1646.9	1540.6	1514.1	1498.1	1482.2	1476.9	1476.9	1479.5
40°	9180.1	6555.7	2156.9	1543.3	1476.9	1437.0	1407.8	1389.2	1370.6	1376.0	1381.3
42.5°	9682.1	6579.6	1899.2	1474.2	1421.1	1365.3	1322.8	1301.6	1288.3	1304.2	1301.6
45°	10481.7	6818.7	1734.6	1426.4	1365.3	1293.6	1253.8	1232.5	1232.5	1256.4	1264.4
47.5°	11600.0	7275.6	1646.9	1389.2	1322.8	1237.8	1198.0	1182.0	1187.4	1227.2	1229.9
50°	12965.3	8069.8	1631.0	1370.6	1301.6	1198.0	1152.8	1136.9	1150.2	1192.7	1198.0
52.5°	14471.4	9092.4	1708.0	1373.3	1283.0	1174.1	1115.6	1091.7	1105.0	1139.5	1150.2
55°	16256.4	10372.8	1907.2	1383.9	1256.4	1160.8	1089.1	1035.9	1051.9	1075.8	1078.4
57.5°	18078.6	11987.8	2257.8	1386.6	1235.2	1136.9	1043.9	974.9	974.9	990.8	998.8
60°	20304.6	13746.2	2720.0	1389.2	1237.8	1102.4	982.8	905.8	895.2	903.1	905.8
62.5°	22514.6	15217.8	2797.1	1381.3	1264.4	1067.8	916.4	836.7	818.1	815.5	810.2
65°	23489.5	14944.2	2292.4	1344.1	1293.6	1046.6	863.3	770.3	738.4	727.8	727.8
67.5°	21901.0	12641.2	1723.9	1293.6	1275.0	1025.3	812.8	714.5	677.4	656.1	656.1
69°	20408.2	11244.0	1548.6	1259.1	1227.2	990.8	780.9	685.3	640.2	616.3	608.3
70°	19255.4	10282.5	1474.2	1229.9	1182.0	950.9	757.0	664.1	613.6	587.0	581.7
72.5°	15366.6	8067.1	1291.0	1118.3	1006.7	799.5	672.0	597.7	549.8	520.6	512.7
75°	8856.0	4372.2	1070.5	972.2	810.2	621.6	568.4	520.6	483.4	456.9	448.9
77.5°	2725.3	1689.4	775.6	767.7	595.0	480.8	454.2	435.6	409.1	379.8	374.5
80°	1147.5	860.6	525.9	518.0	395.8	334.7	326.7	324.1	313.4	289.5	281.6
82.5°	629.5	486.1	366.6	318.8	239.1	193.9	201.9	204.5	196.6	172.7	156.7
85°	308.1	265.6	178.0	143.4	108.9	69.1	66.4	79.7	74.4	53.1	58.4
87.5°	61.1	74.4	47.8	21.3	10.6	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)