

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: P457391

Luminaire Tested: **GALN-SA8D-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457391  
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-SA8D-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 51781 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

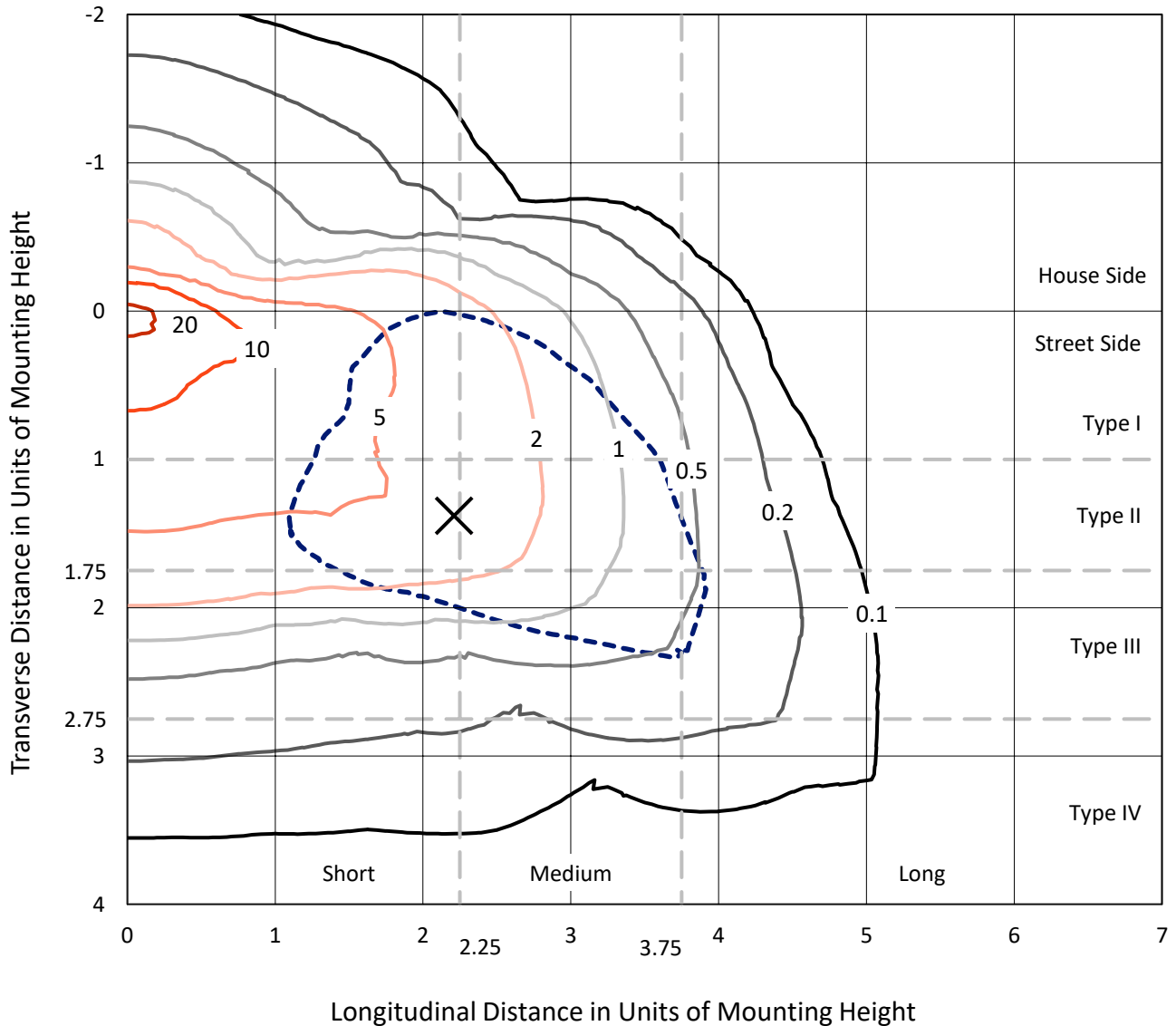
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

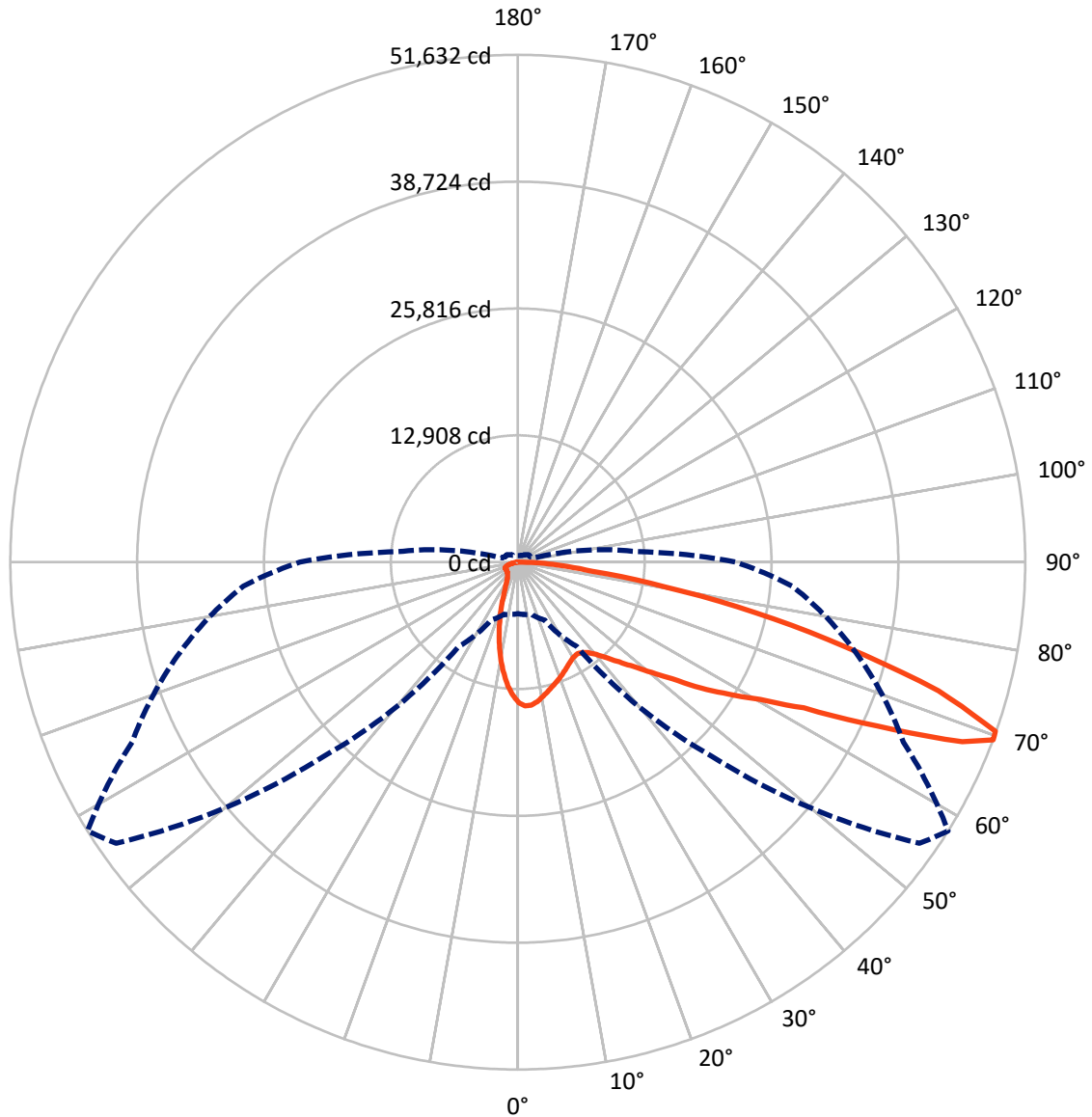
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 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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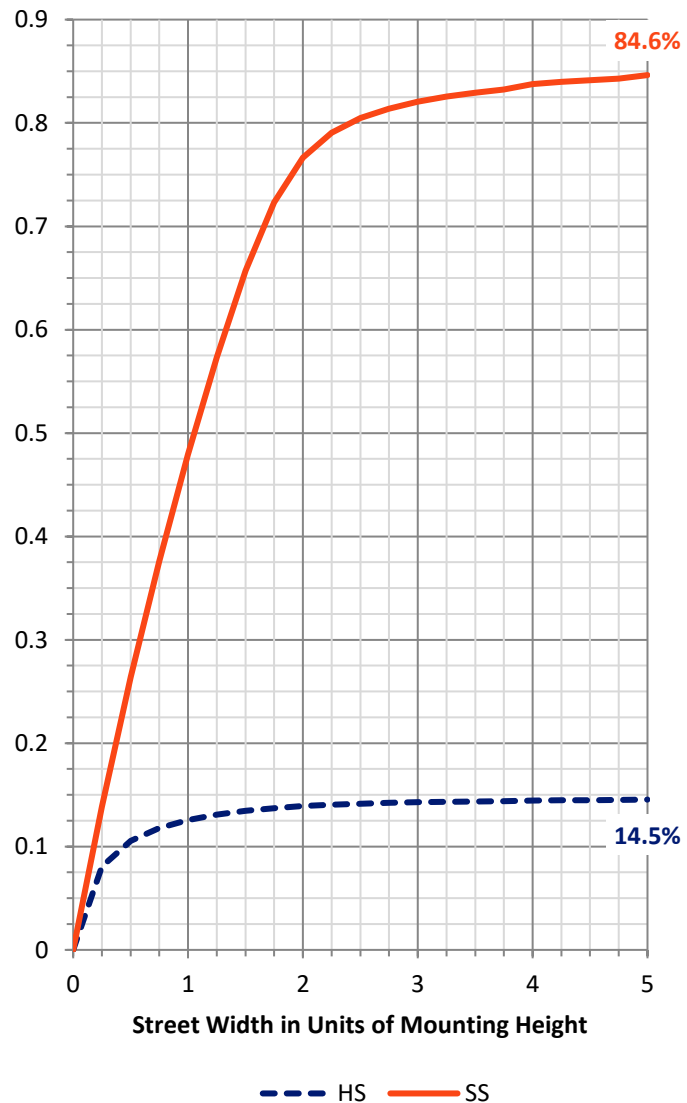
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7588.5	0.0	7588.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	44192.5	0.0	44192.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	51781.0	0.0	51781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1215.2	2.3
10°-20°	2668.4	5.2
20°-30°	3447.6	6.7
30°-40°	4477.7	8.6
40°-50°	6510.0	12.6
50°-60°	10387.8	20.1
60°-70°	13876.8	26.8
70°-80°	7999.4	15.4
80°-90°	1198.1	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°	51781.0	100.0
0°-180°	51781.0	100.0



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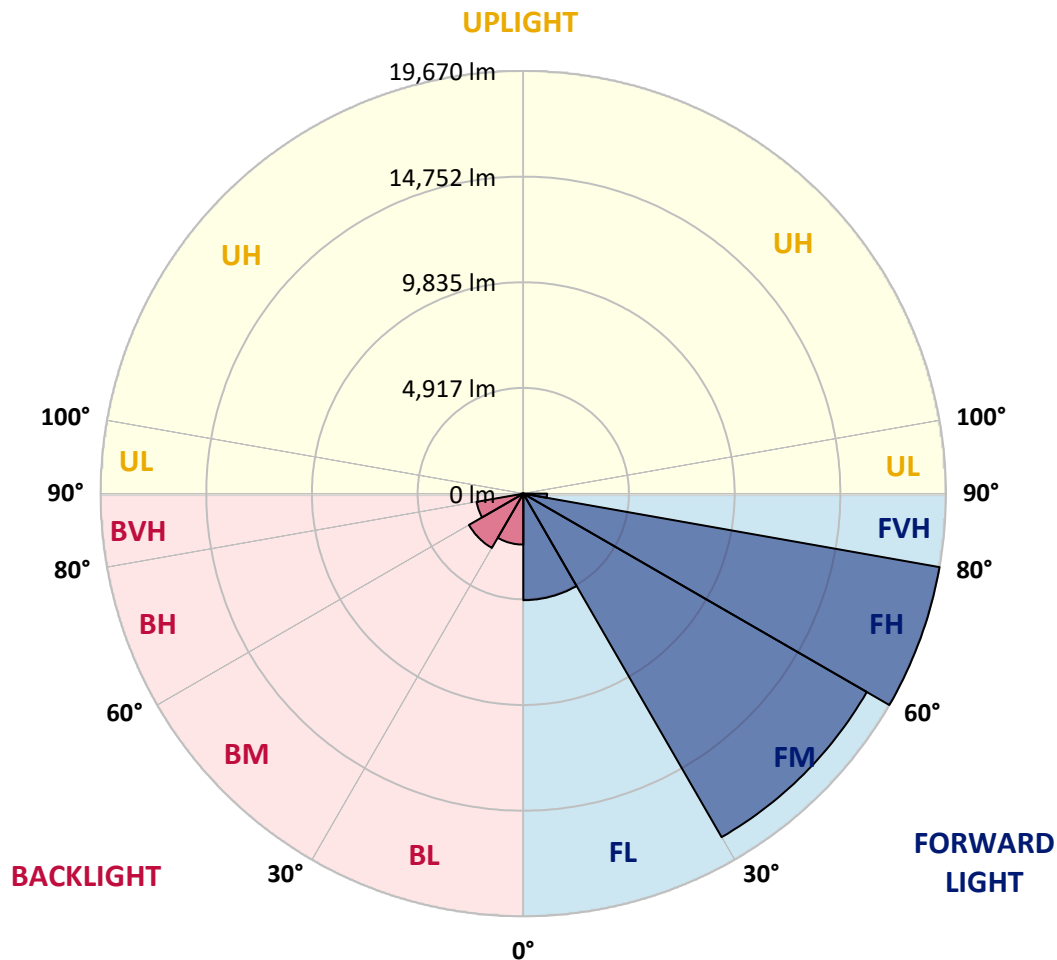
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4959.3	9.6			
FM	(30°-60°)	18457.2	35.6			
FH	(60°-80°)	19669.6	38.0			G5
FVH	(80°-90°)	1106.3	2.1			G5
BL	(0°-30°)	2371.9	4.6	B3/2500		
BM	(30°-60°)	2918.3	5.6	B3/5000		
BH	(60°-80°)	2206.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	91.8	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°	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2
2.5°	14840.6	14881.0	14869.5	14855.0	14831.9	14768.4	14664.4	14647.1	14580.7	14439.2	14263.0
5°	14612.5	14647.1	14650.0	14670.2	14699.1	14687.5	14612.5	14603.8	14505.6	14315.0	14020.5
7.5°	13829.9	13876.1	13977.1	14089.8	14190.8	14286.1	14309.2	14323.7	14263.0	14043.6	13650.8
10°	12949.1	12995.3	13041.5	13209.0	13457.3	13694.1	13890.5	13916.5	13930.9	13728.8	13249.4
12.5°	11973.0	12068.3	12166.5	12414.8	12746.9	13119.4	13466.0	13520.9	13619.0	13466.0	12902.9
15°	11144.2	11242.4	11383.9	11606.2	12007.6	12544.8	13032.8	13122.3	13315.8	13237.8	12579.4
17.5°	10569.5	10604.1	10702.3	10956.5	11389.6	11955.6	12608.3	12787.3	13096.3	13076.1	12302.2
20°	10116.1	10159.4	10220.1	10376.0	10826.5	11424.3	12212.7	12443.7	12862.4	12931.7	12027.8
22.5°	9925.5	9957.3	9948.6	10032.3	10338.5	10939.1	11811.3	12085.6	12654.5	12833.6	11773.7
25°	9937.1	9965.9	9922.6	9902.4	10084.3	10511.7	11392.5	11741.9	12487.0	12767.1	11542.7
27.5°	10130.5	10150.8	10069.9	9989.0	10003.5	10246.0	11046.0	11433.0	12345.5	12796.0	11349.2
30°	10390.4	10428.0	10376.0	10277.8	10171.0	10182.5	10823.6	11204.8	12279.1	12897.1	11256.8
32.5°	10725.4	10760.1	10737.0	10659.0	10520.4	10367.3	10768.7	11121.1	12284.9	13102.1	11236.6
35°	11077.7	11147.1	11184.6	11178.8	11066.2	10800.5	10985.3	11277.0	12423.5	13445.8	11355.0
37.5°	11476.3	11534.0	11695.7	11799.7	11695.7	11386.7	11473.4	11675.5	12729.6	13942.5	11614.9
40°	11863.2	11949.9	12186.7	12510.1	12469.7	12198.2	12218.4	12351.3	13269.6	14681.8	12123.1
42.5°	12267.5	12371.5	12784.5	13263.8	13359.1	13148.3	13203.2	13321.6	14037.8	15707.0	12995.3
45°	12787.3	12911.5	13419.8	14017.6	14393.0	14263.0	14419.0	14476.7	15065.9	17041.1	14144.6
47.5°	13457.3	13601.7	14228.4	14973.4	15504.8	15623.2	15894.7	15860.0	16339.4	18620.8	15634.8
50°	14586.5	14667.3	15259.3	16018.8	16749.5	17283.7	17578.3	17633.1	17919.0	20157.1	17301.0
52.5°	15929.3	16001.5	16428.9	17093.1	18008.6	19140.6	19868.3	19689.3	19758.6	22028.4	19250.3
55°	17439.7	17560.9	17832.4	18274.2	19461.1	21127.4	22588.7	22632.0	21863.8	23818.9	21118.8
57.5°	18609.2	18814.3	19279.2	19908.8	21413.3	23336.6	25300.3	25329.2	24347.4	25730.6	23180.7
60°	18020.1	18262.7	19325.4	20858.9	23974.8	27191.9	28540.5	28375.9	26764.5	27908.1	25696.0
62.5°	15478.8	15522.1	17067.1	19464.0	24763.2	32349.6	33363.2	32667.2	29990.2	30668.8	28251.7
65°	10017.9	10300.9	11525.4	14883.9	22172.8	35211.4	41813.0	40204.5	34512.6	33802.1	30391.6
67.5°	6324.4	6252.2	6760.4	8498.9	15250.7	32690.3	49023.9	48769.8	40426.8	35780.3	29880.5
69°	5244.3	5325.2	5498.4	6515.0	10494.4	27911.0	49875.8	51631.7	43294.5	35624.4	28023.6
70°	4756.3	4793.8	4975.7	5775.7	8097.5	23377.0	48478.1	51553.7	44420.7	34971.7	26677.8
72.5°	3774.4	3771.5	4083.4	4805.4	6052.9	13344.7	39806.0	44758.6	43161.6	31933.7	22042.9
75°	2867.6	2913.8	3257.5	4066.1	5576.4	7291.8	27778.1	34469.2	34472.1	25222.4	13754.8
77.5°	2067.7	2096.6	2498.0	3413.4	5253.0	5911.4	18502.4	24722.8	23241.3	11557.1	4323.1
80°	1354.4	1371.7	1677.8	2703.0	4736.1	5576.4	10970.9	15132.3	10962.2	3066.9	1429.5
82.5°	742.2	828.8	1025.2	1750.0	3800.4	5151.9	6668.0	7658.5	4112.3	1365.9	745.1
85°	372.5	395.6	577.6	1022.3	2483.5	4262.4	4643.6	4392.4	2122.6	678.6	387.0
87.5°	109.7	138.6	239.7	395.6	1007.9	2220.7	2584.6	2318.9	817.3	245.5	80.9
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°	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2	14309.2
2.5°	14190.8	14138.9	13907.8	13699.9	13509.3	13307.2	13136.8	12986.6	13001.0	13003.9	12850.9
5°	13867.4	13749.0	13310.0	12900.0	12553.4	12114.5	11739.1	11496.5	11375.2	11213.5	11271.2
7.5°	13428.4	13200.3	12591.0	11909.4	11271.2	10702.3	10084.3	9659.8	9388.4	9125.6	9160.2
10°	12975.1	12608.3	11721.7	10820.7	9994.8	9085.1	8296.8	7621.0	7118.5	6930.8	6806.6
12.5°	12510.1	12027.8	10901.6	9703.1	8562.4	7473.7	6356.1	5631.3	5076.8	4782.3	4819.8
15°	12085.6	11499.4	10046.8	8585.5	7104.1	5807.4	4692.7	4002.5	3615.6	3534.7	3580.9
17.5°	11692.9	10924.7	9246.9	7499.7	5769.9	4354.9	3526.1	3136.2	2980.2	2936.9	2934.0
20°	11288.6	10436.6	8348.7	6338.8	4496.4	3375.9	2893.6	2711.7	2682.8	2700.1	2703.0
22.5°	10878.5	9833.1	7424.6	5186.6	3580.9	2760.8	2529.7	2480.7	2503.8	2544.2	2550.0
25°	10500.2	9301.7	6535.2	4175.8	2859.0	2425.8	2313.2	2313.2	2365.1	2425.8	2428.7
27.5°	10188.3	8787.7	5648.6	3315.2	2394.0	2183.2	2145.7	2165.9	2238.1	2284.3	2287.2
30°	9931.3	8308.3	4811.1	2656.8	2105.2	1989.7	1981.1	2015.7	2067.7	2111.0	2113.9
32.5°	9737.8	7886.7	4028.5	2232.3	1906.0	1842.4	1839.6	1865.5	1894.4	1906.0	1917.5
35°	9662.7	7537.3	3312.4	1963.7	1773.1	1732.7	1732.7	1729.8	1741.4	1747.1	1752.9
37.5°	9723.4	7268.7	2757.9	1790.5	1674.9	1646.1	1628.7	1611.4	1605.6	1605.6	1608.5
40°	9980.4	7127.2	2344.9	1677.8	1605.6	1562.3	1530.6	1510.3	1490.1	1495.9	1501.7
42.5°	10526.2	7153.2	2064.8	1602.8	1545.0	1484.3	1438.1	1415.0	1400.6	1417.9	1415.0
45°	11395.4	7413.1	1885.8	1550.8	1484.3	1406.4	1363.1	1340.0	1340.0	1365.9	1374.6
47.5°	12611.2	7909.8	1790.5	1510.3	1438.1	1345.7	1302.4	1285.1	1290.9	1334.2	1337.1
50°	14095.5	8773.3	1773.1	1490.1	1415.0	1302.4	1253.3	1236.0	1250.4	1296.6	1302.4
52.5°	15732.9	9885.1	1856.9	1493.0	1394.8	1276.4	1212.9	1186.9	1201.3	1238.9	1250.4
55°	17673.6	11277.0	2073.5	1504.6	1365.9	1262.0	1184.0	1126.3	1143.6	1169.6	1172.5
57.5°	19654.6	13032.8	2454.7	1507.5	1342.8	1236.0	1134.9	1059.8	1059.8	1077.2	1085.8
60°	22074.6	14944.6	2957.1	1510.3	1345.7	1198.5	1068.5	984.8	973.2	981.9	984.8
62.5°	24477.3	16544.4	3040.9	1501.7	1374.6	1160.9	996.3	909.7	889.5	886.6	880.8
65°	25537.2	16247.0	2492.2	1461.2	1406.4	1137.8	938.5	837.5	802.8	791.3	791.3
67.5°	23810.2	13743.2	1874.2	1406.4	1386.2	1114.7	883.7	776.8	736.4	713.3	713.3
69°	22187.3	12224.2	1683.6	1368.8	1334.2	1077.2	849.0	745.1	696.0	670.0	661.3
70°	20933.9	11178.8	1602.8	1337.1	1285.1	1033.8	823.0	722.0	667.1	638.2	632.4
72.5°	16706.1	8770.4	1403.5	1215.8	1094.5	869.2	730.6	649.8	597.8	566.0	557.4
75°	9628.1	4753.4	1163.8	1056.9	880.8	675.8	618.0	566.0	525.6	496.7	488.0
77.5°	2962.9	1836.7	843.2	834.6	646.9	522.7	493.8	473.6	444.7	413.0	407.2
80°	1247.5	935.7	571.8	563.1	430.3	363.9	355.2	352.3	340.8	314.8	306.1
82.5°	684.4	528.5	398.5	346.5	259.9	210.8	219.5	222.4	213.7	187.7	170.4
85°	335.0	288.8	193.5	155.9	118.4	75.1	72.2	86.6	80.9	57.8	63.5
87.5°	66.4	80.9	52.0	23.1	11.6	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)