

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: P457158

Luminaire Tested: **GALN-SA8C-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39274 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

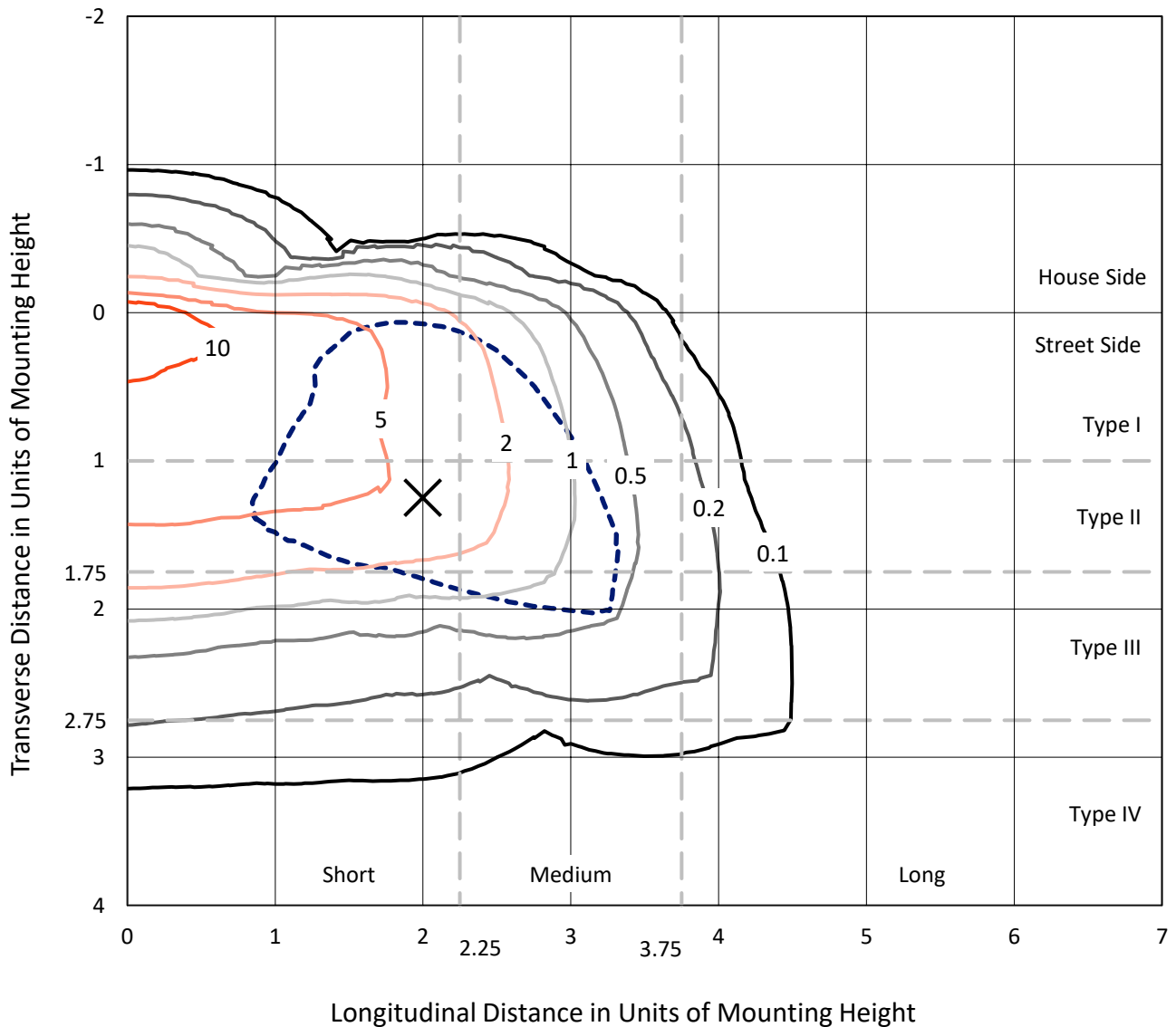
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

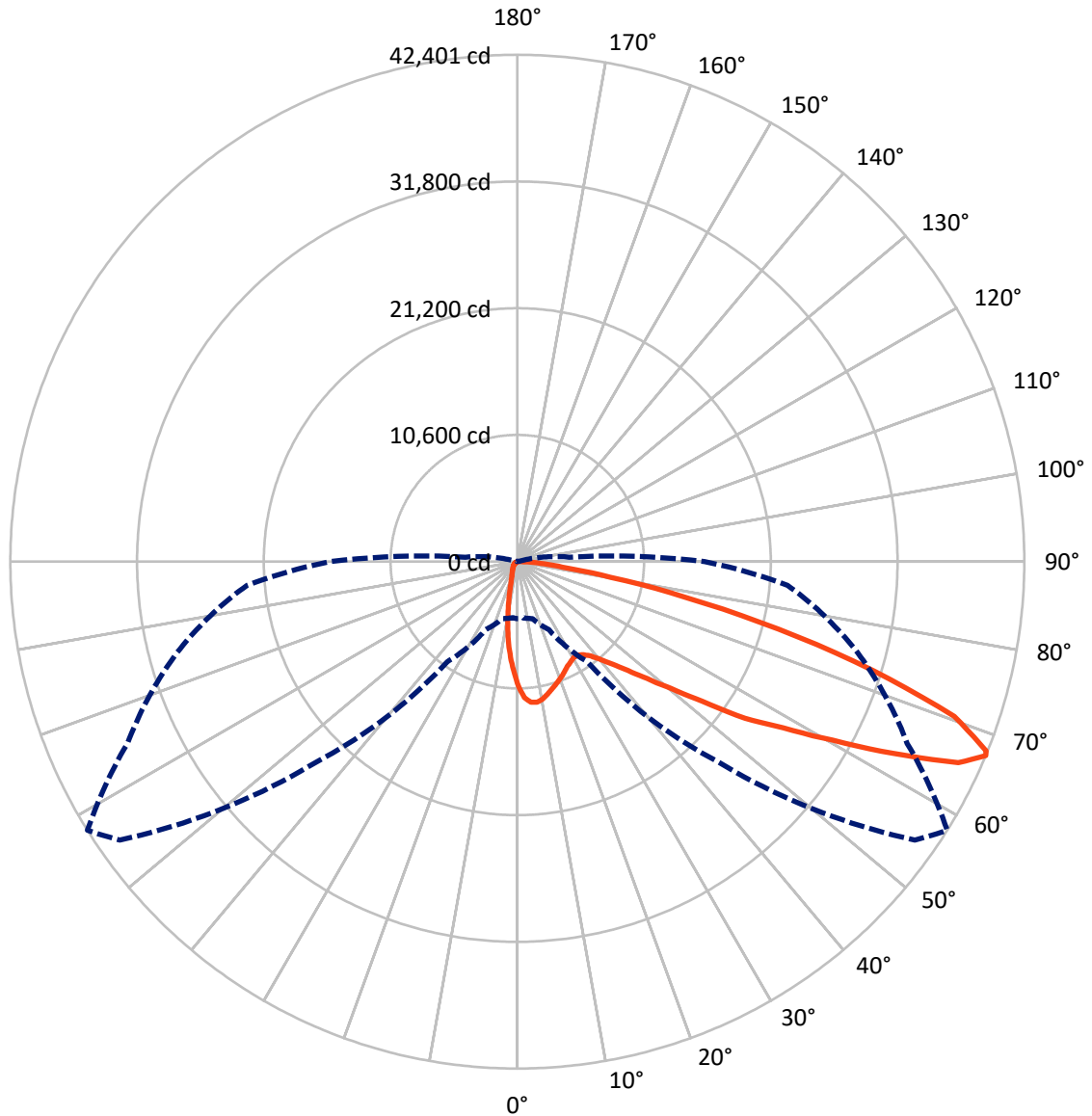
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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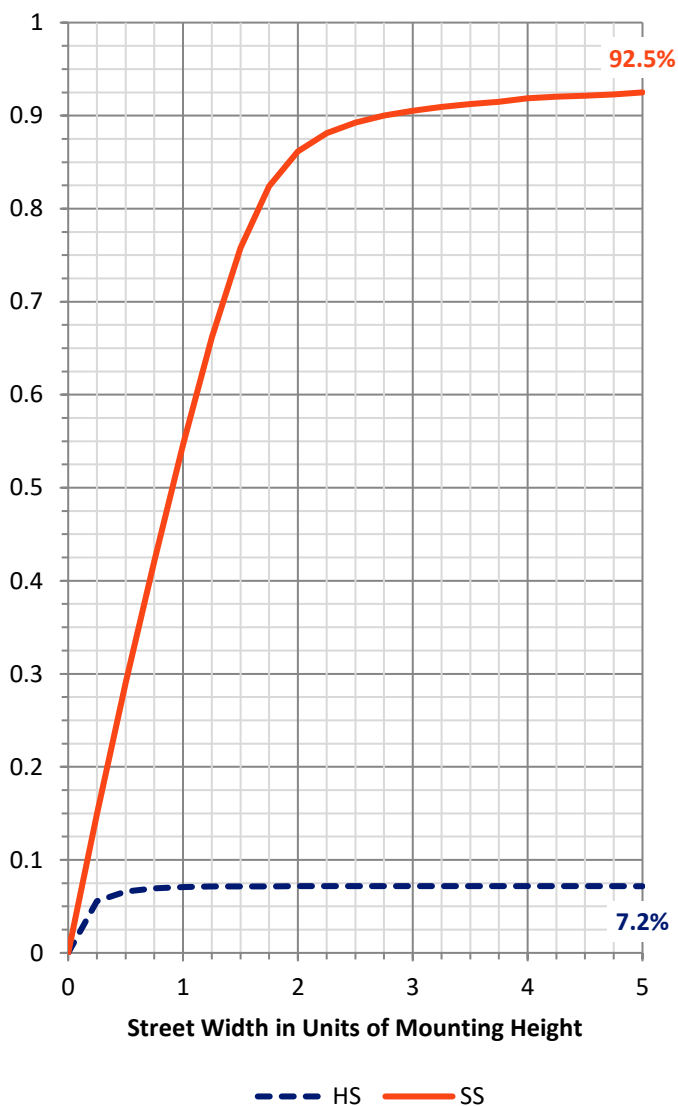
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2834.2	0.0	2834.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	36439.8	0.0	36439.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	39274.0	0.0	39274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.8	2.2
10°-20°	1824.7	4.6
20°-30°	2472.5	6.3
30°-40°	3429.3	8.7
40°-50°	5469.3	13.9
50°-60°	9454.1	24.1
60°-70°	10799.5	27.5
70°-80°	4502.4	11.5
80°-90°	477.4	1.2
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°	39274.0	100.0
0°-180°	39274.0	100.0

**Coefficient of Utilization**



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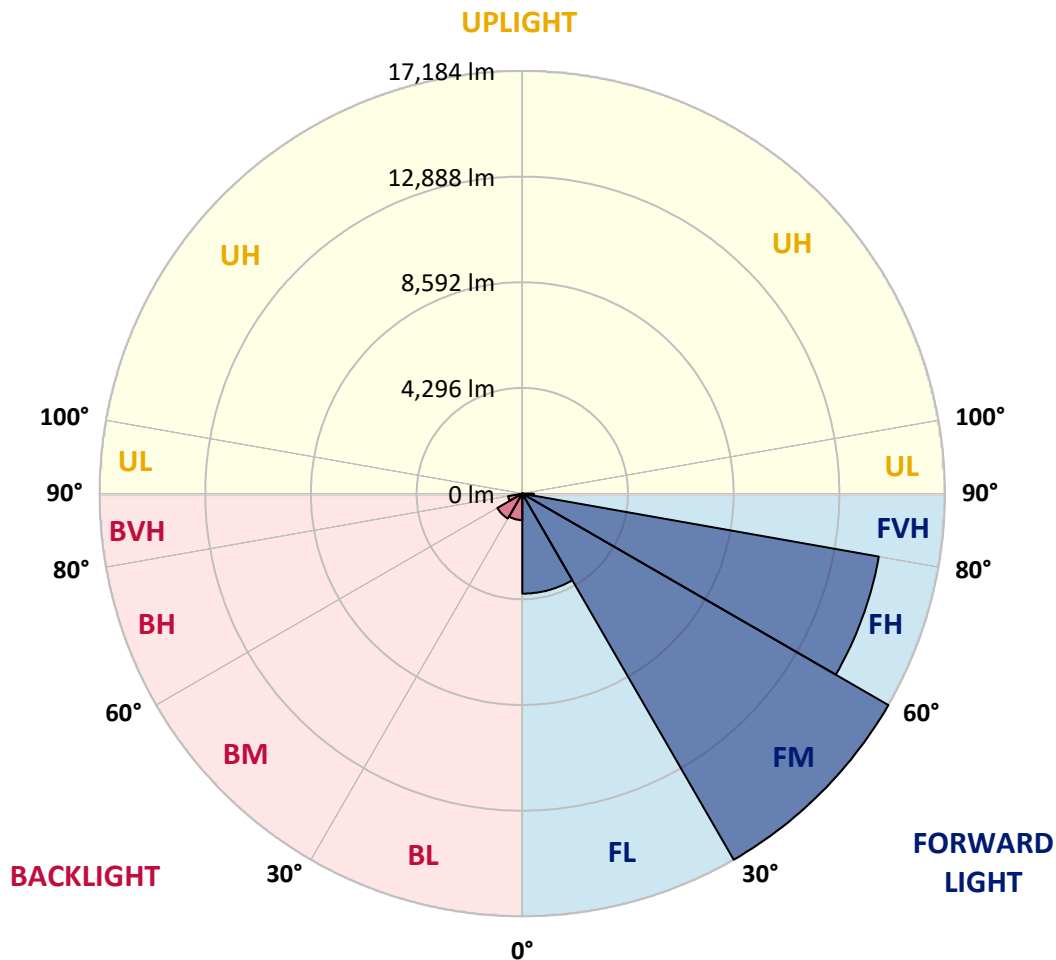
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4065.8	10.4			
FM	(30°-60°)	17184.0	43.8			
FH	(60°-80°)	14716.0	37.5			G5
FVH	(80°-90°)	473.9	1.2			G3/500
BL	(0°-30°)	1076.2	2.7	B3/2500		
BM	(30°-60°)	1168.6	3.0	B2/2500		
BH	(60°-80°)	585.9	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
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°	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2
2.5°	12082.9	12101.3	12033.1	11978.0	11836.3	11684.0	11482.0	11374.3	11190.6	10873.1	10521.4
5°	12366.4	12390.0	12379.5	12366.4	12311.3	12164.3	11907.1	11812.6	11542.3	11025.3	10390.2
7.5°	11736.5	11823.1	11833.6	11936.0	12033.1	12046.2	11949.1	11878.2	11628.9	11022.7	10156.6
10°	10901.9	10959.7	11043.7	11161.8	11395.3	11589.6	11684.0	11673.5	11529.2	10941.3	9883.7
12.5°	10059.5	10091.0	10219.6	10421.7	10707.7	11038.4	11290.4	11340.2	11342.9	10844.2	9655.3
15°	9335.2	9322.0	9421.8	9655.3	10056.9	10471.5	10922.9	11001.7	11127.7	10749.7	9442.8
17.5°	8715.8	8784.0	8799.8	9057.0	9427.0	9965.0	10539.8	10678.9	10930.8	10668.4	9266.9
20°	8332.6	8369.4	8403.5	8547.8	8881.1	9448.0	10180.2	10371.8	10747.1	10594.9	9070.1
22.5°	8219.8	8243.4	8214.5	8259.1	8495.3	8999.2	9789.2	10043.8	10571.3	10526.7	8910.0
25°	8306.4	8330.0	8261.8	8209.3	8290.6	8634.4	9411.3	9720.9	10429.5	10513.5	8789.3
27.5°	8516.3	8560.9	8466.5	8372.0	8324.7	8437.6	9114.7	9474.2	10332.4	10576.5	8734.2
30°	8844.4	8870.6	8799.8	8684.3	8576.7	8463.8	8959.9	9303.7	10306.2	10723.5	8728.9
32.5°	9201.3	9256.4	9217.1	9140.9	9001.8	8734.2	9004.5	9308.9	10369.2	10936.1	8794.5
35°	9642.2	9705.2	9741.9	9726.2	9547.7	9214.4	9287.9	9545.1	10537.2	11327.1	8973.0
37.5°	10075.2	10130.4	10337.7	10408.6	10251.1	9936.2	9839.0	10009.6	10907.2	11838.9	9295.8
40°	10571.3	10644.8	10936.1	11206.4	11130.3	10799.6	10621.1	10762.9	11474.1	12610.5	9907.3
42.5°	11046.3	11177.5	11621.0	12098.7	12169.6	11799.5	11681.4	11728.6	12313.9	13720.6	10760.2
45°	11720.8	11844.1	12416.3	13064.5	13397.8	13109.1	12988.4	12980.5	13466.0	15282.1	12143.3
47.5°	12694.4	12804.7	13479.2	14119.5	14712.6	14752.0	14523.7	14602.4	14914.7	17108.8	13838.7
50°	13888.6	14148.4	14591.9	15258.5	16051.1	16691.5	16762.3	16657.4	16925.1	19224.1	15875.3
52.5°	15623.3	15723.1	16129.8	16678.4	17607.4	18693.9	19536.4	19392.0	19308.0	21239.6	17932.8
55°	16917.2	17051.0	17683.5	18436.7	19798.8	21231.8	23058.4	23108.2	22048.0	23176.5	19945.8
57.5°	16526.1	16730.8	17688.8	19203.1	22197.6	24816.8	26176.2	26210.3	24583.2	25058.2	22218.6
60°	14518.4	14615.5	15988.1	18008.9	22402.3	28700.9	30598.4	30322.8	27163.0	27163.0	24226.3
62.5°	10295.7	10447.9	11560.7	14534.2	20231.9	30049.9	35894.5	35325.0	30716.5	29176.0	25423.0
65°	6579.5	6432.5	7170.0	9175.1	15072.2	28058.0	40505.7	40539.8	34060.1	29981.7	24769.5
67°	4766.0	4708.3	4920.8	6272.4	10219.6	23585.9	40602.8	42400.5	35981.2	29472.5	22680.5
67.5°	4359.2	4403.8	4558.7	5658.3	9285.3	21462.7	40161.9	42290.3	36414.2	29165.5	21924.6
70°	3304.2	3228.1	3396.0	4002.3	5566.4	13539.5	34548.2	38786.7	35876.2	26118.5	17518.2
72.5°	2430.2	2422.4	2655.9	3272.7	4285.7	7212.0	25934.8	31099.7	29309.8	19888.1	11030.5
75°	1640.3	1713.8	2086.4	2734.7	3884.2	4676.8	17680.9	22562.4	20347.3	11293.0	4508.8
77.5°	934.3	939.6	1343.7	2196.7	3487.9	3763.5	10476.8	14374.1	10770.7	3755.6	1338.5
80°	404.2	443.5	666.6	1595.7	2892.1	3333.0	6007.4	7899.6	4356.6	795.2	433.0
82.5°	149.6	175.8	293.9	981.5	2110.1	2745.2	3629.6	3771.3	1477.6	280.8	270.3
85°	0.0	5.2	107.6	459.3	1099.6	1225.6	2425.0	2236.0	653.5	133.8	175.8
87.5°	0.0	0.0	0.0	47.2	144.3	456.7	753.2	839.8	157.5	47.2	42.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2	10411.2
2.5°	10332.4	10161.9	9734.1	9306.3	8988.7	8723.7	8324.7	8106.9	7991.4	7820.8	7831.3
5°	10072.6	9726.2	8973.0	8193.5	7563.7	6949.5	6214.7	5918.1	5668.8	5527.1	5432.6
7.5°	9686.8	9175.1	8059.7	7020.4	6052.0	4978.6	4172.9	3634.9	3272.7	3138.8	3010.2
10°	9264.3	8584.6	7133.2	5692.4	4348.7	3241.2	2558.8	2065.4	1889.6	1726.9	1742.6
12.5°	8873.3	8046.6	6282.9	4493.1	3047.0	2060.2	1606.2	1404.1	1346.3	1328.0	1328.0
15°	8553.1	7532.2	5369.6	3377.7	2089.1	1480.2	1286.0	1230.9	1209.9	1204.6	1204.6
17.5°	8211.9	7044.0	4545.5	2495.8	1519.6	1238.7	1173.1	1136.4	1128.5	1123.3	1123.3
20°	7907.5	6553.2	3763.5	1858.1	1228.2	1115.4	1073.4	1049.8	1041.9	1036.7	1039.3
22.5°	7618.8	6117.6	3028.6	1404.1	1081.3	1015.7	973.7	950.0	934.3	921.2	923.8
25°	7361.6	5697.7	2435.5	1149.5	973.7	915.9	873.9	839.8	805.7	790.0	787.3
27.5°	7180.5	5330.2	1897.5	984.2	876.6	813.6	761.1	719.1	674.5	650.9	645.6
30°	7030.9	4957.6	1501.2	868.7	779.5	719.1	653.5	593.1	545.9	522.3	511.8
32.5°	6933.8	4603.3	1183.6	774.2	698.1	624.6	551.1	490.8	438.3	414.7	409.4
35°	6918.0	4306.7	968.4	695.5	624.6	545.9	469.8	404.2	359.5	335.9	330.7
37.5°	7030.9	4078.4	811.0	632.5	564.3	477.6	393.7	333.3	293.9	275.6	272.9
40°	7332.7	3934.0	703.4	580.0	509.1	414.7	335.9	283.4	244.1	225.7	225.7
42.5°	7907.5	3939.3	632.5	530.1	454.0	354.3	286.1	236.2	202.1	186.3	181.1
45°	8805.0	4117.8	572.1	480.3	401.5	307.1	244.1	194.2	160.1	147.0	147.0
47.5°	10007.0	4472.1	519.6	430.4	354.3	262.4	207.3	157.5	128.6	115.5	115.5
50°	11579.1	5041.6	475.0	388.4	314.9	225.7	168.0	128.6	99.7	89.2	86.6
52.5°	13222.0	5744.9	422.5	351.7	270.3	191.6	136.5	99.7	76.1	68.2	65.6
55°	15035.5	6432.5	372.7	314.9	220.5	160.1	107.6	78.7	55.1	47.2	47.2
57.5°	16864.7	7107.0	312.3	262.4	173.2	118.1	84.0	57.7	36.7	28.9	28.9
60°	18413.1	7324.8	265.1	212.6	131.2	84.0	60.4	36.7	21.0	13.1	13.1
62.5°	18625.7	6590.0	223.1	162.7	94.5	57.7	31.5	21.0	7.9	5.2	5.2
65°	17470.9	5353.9	186.3	123.3	63.0	28.9	13.1	7.9	2.6	0.0	0.0
67°	15654.8	4340.8	152.2	91.9	44.6	18.4	7.9	2.6	0.0	0.0	0.0
67.5°	15190.3	4138.8	147.0	86.6	39.4	15.7	5.2	2.6	0.0	0.0	0.0
70°	11920.2	3099.5	105.0	52.5	23.6	10.5	0.0	0.0	0.0	0.0	0.0
72.5°	7408.8	1753.1	76.1	31.5	15.7	5.2	0.0	0.0	0.0	0.0	0.0
75°	2800.3	614.1	52.5	21.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	871.3	233.6	31.5	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	293.9	89.2	21.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	181.1	36.7	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	112.9	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	5.2	2.6	0.0	0.0	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)