

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: P454519

Luminaire Tested: **GALN-SA5C-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454519  
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-SA5C-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 21410 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

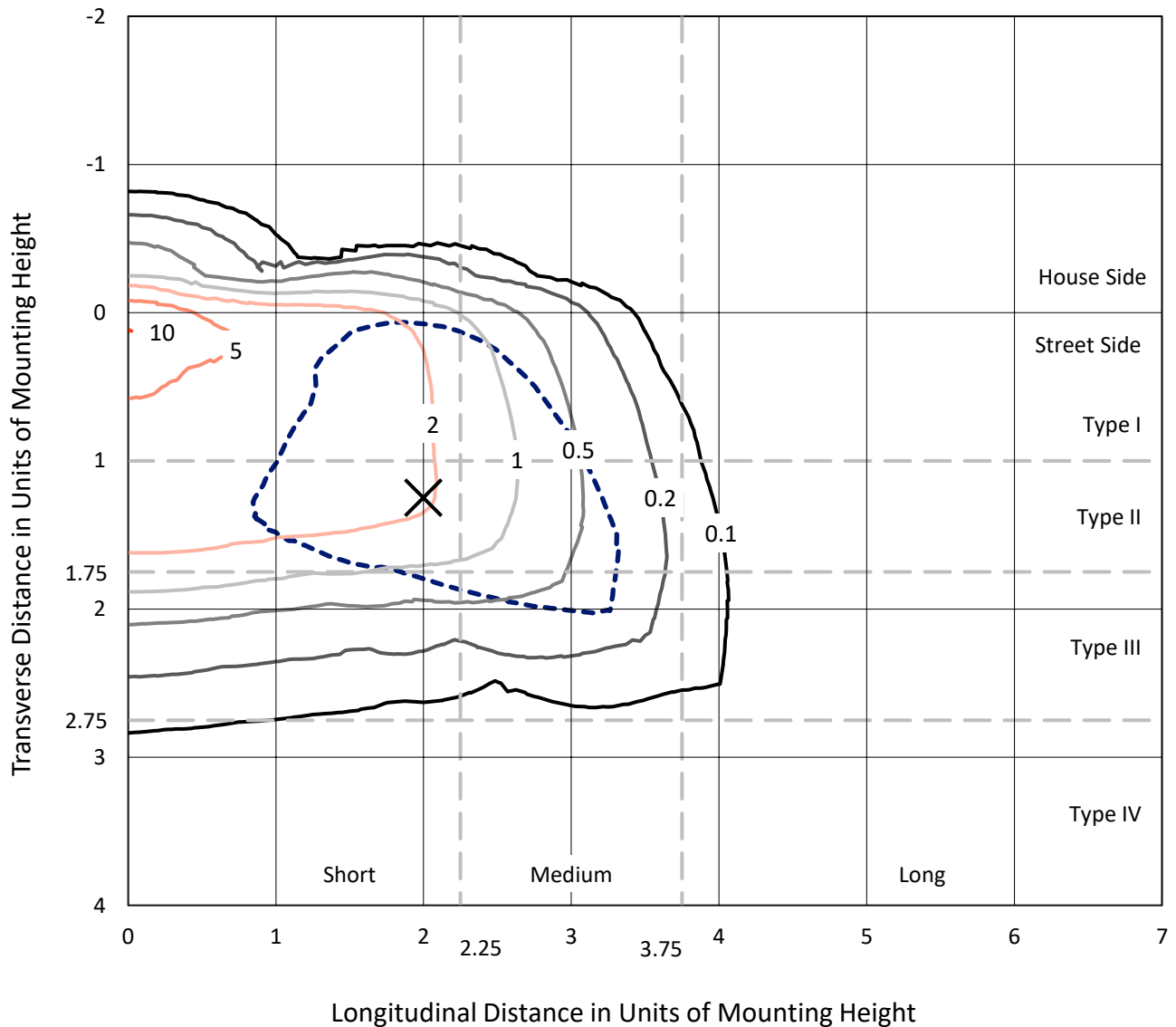
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

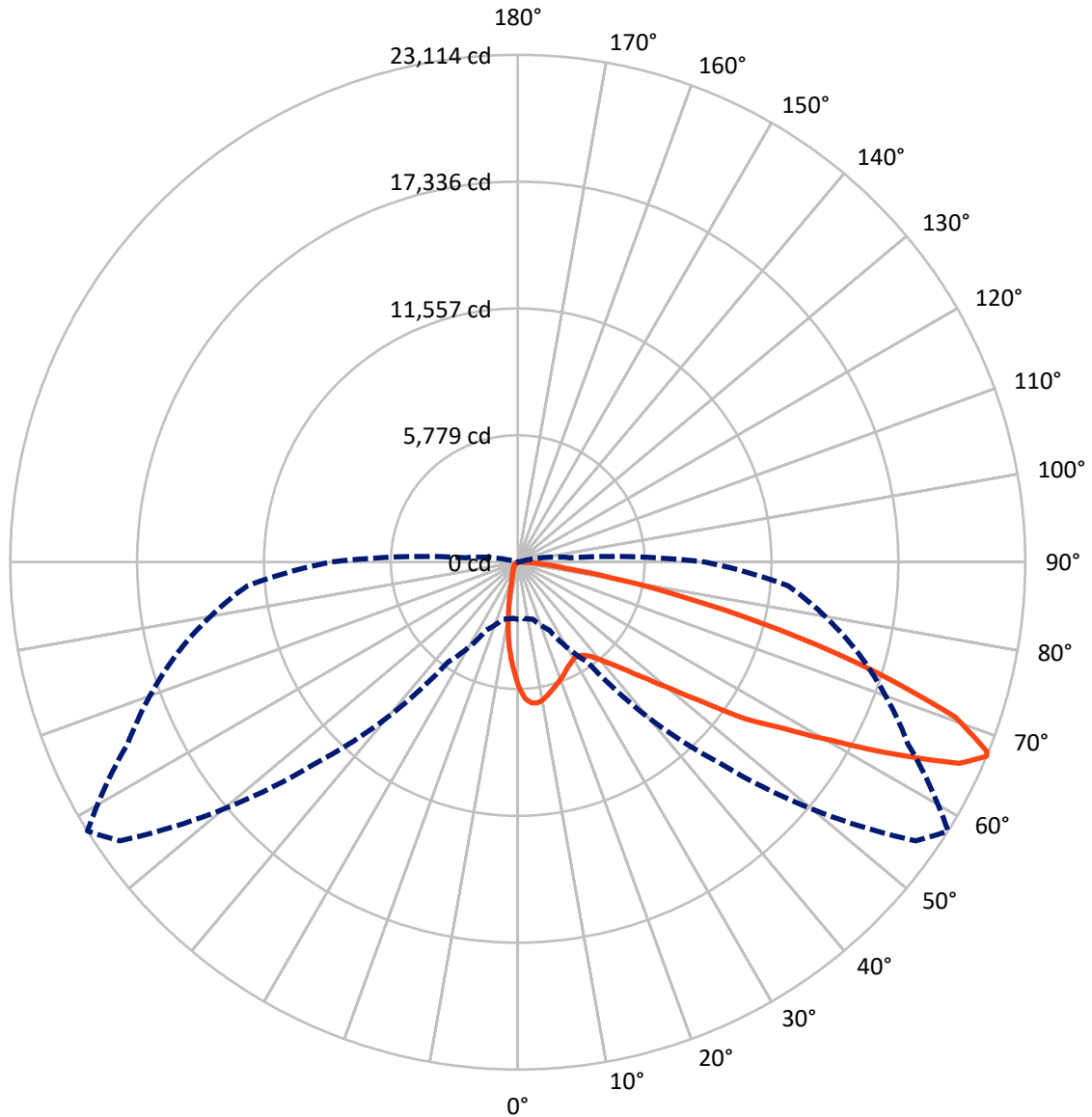
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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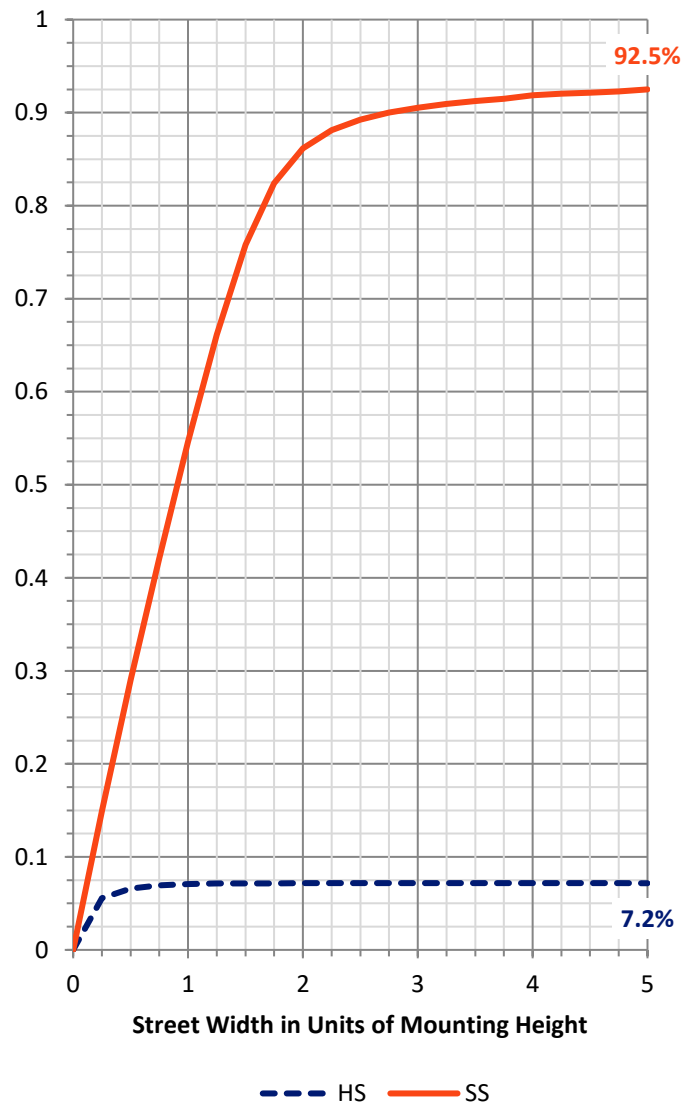
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1545.1	0.0	1545.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19864.9	0.0	19864.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21410.0	0.0	21410.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.6	2.2
10°-20°	994.7	4.6
20°-30°	1347.9	6.3
30°-40°	1869.4	8.7
40°-50°	2981.5	13.9
50°-60°	5153.9	24.1
60°-70°	5887.3	27.5
70°-80°	2454.5	11.5
80°-90°	260.2	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°	21410.0	100.0
0°-180°	21410.0	100.0



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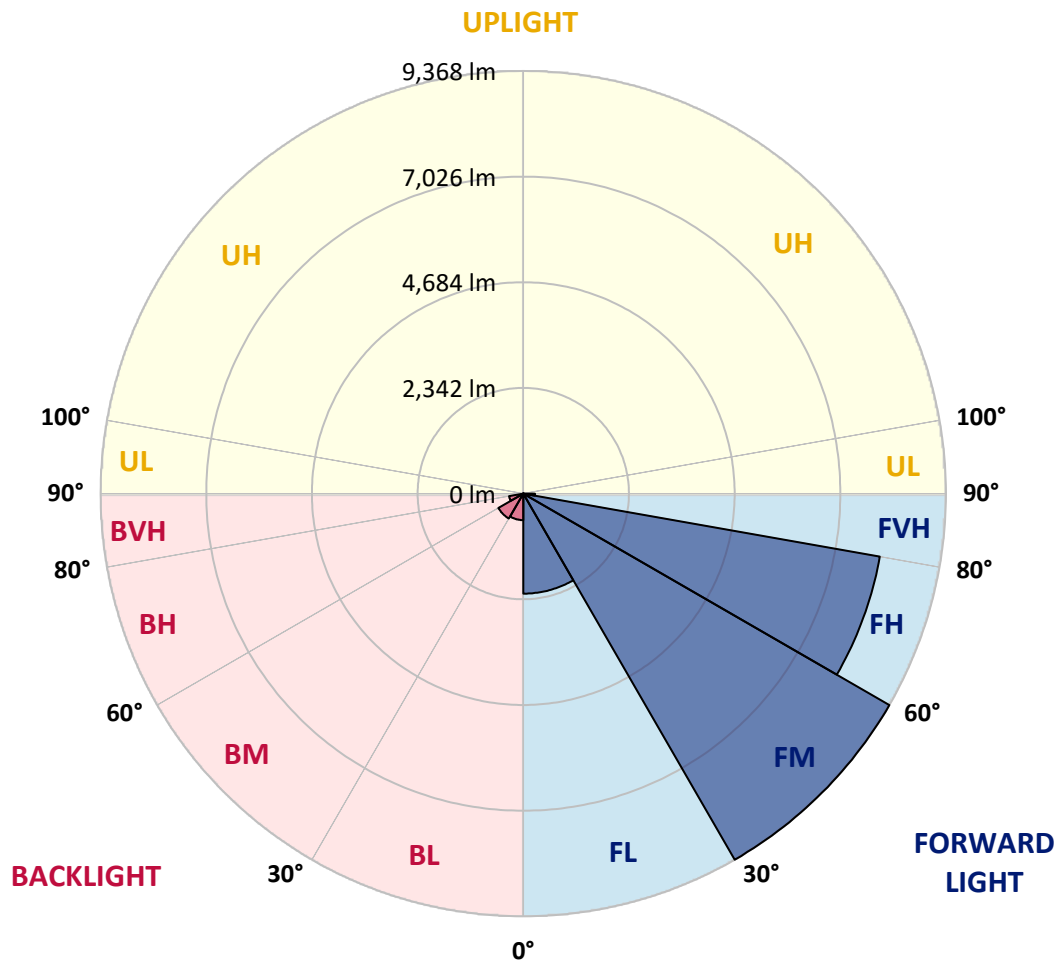
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2216.4	10.4			
FM	(30°-60°)	9367.8	43.8			
FH	(60°-80°)	8022.3	37.5			G4/12000
FVH	(80°-90°)	258.4	1.2			G3/500
BL	(0°-30°)	586.7	2.7	B2/1000		
BM	(30°-60°)	637.1	3.0	B1/1000		
BH	(60°-80°)	319.4	1.5	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6
2.5°	6587.0	6597.0	6559.8	6529.7	6452.5	6369.5	6259.3	6200.7	6100.5	5927.4	5735.7
5°	6741.5	6754.3	6748.6	6741.5	6711.4	6631.3	6491.1	6439.6	6292.2	6010.4	5664.1
7.5°	6398.1	6445.3	6451.0	6506.8	6559.8	6566.9	6514.0	6475.4	6339.4	6008.9	5536.8
10°	5943.1	5974.6	6020.4	6084.8	6212.1	6318.0	6369.5	6363.8	6285.1	5964.6	5388.0
12.5°	5483.9	5501.0	5571.2	5681.3	5837.3	6017.5	6154.9	6182.1	6183.5	5911.7	5263.6
15°	5089.0	5081.9	5136.2	5263.6	5482.4	5708.5	5954.6	5997.5	6066.2	5860.2	5147.7
17.5°	4751.4	4788.6	4797.1	4937.4	5139.1	5432.4	5745.7	5821.5	5958.9	5815.8	5051.8
20°	4542.5	4562.5	4581.1	4659.8	4841.5	5150.5	5549.7	5654.1	5858.7	5775.7	4944.5
22.5°	4481.0	4493.8	4478.1	4502.4	4631.2	4905.9	5336.5	5475.3	5762.9	5738.5	4857.2
25°	4528.2	4541.0	4503.8	4475.2	4519.6	4707.0	5130.5	5299.3	5685.6	5731.4	4791.4
27.5°	4642.6	4666.9	4615.4	4563.9	4538.2	4599.7	4968.8	5164.8	5632.7	5765.7	4761.4
30°	4821.5	4835.8	4797.1	4734.2	4675.5	4614.0	4884.4	5071.8	5618.4	5845.8	4758.5
32.5°	5016.0	5046.1	5024.6	4983.1	4907.3	4761.4	4908.7	5074.7	5652.7	5961.7	4794.3
35°	5256.4	5290.7	5310.8	5302.2	5204.9	5023.2	5063.3	5203.5	5744.3	6174.9	4891.6
37.5°	5492.5	5522.5	5635.5	5674.2	5588.3	5416.6	5363.7	5456.7	5946.0	6453.9	5067.5
40°	5762.9	5802.9	5961.7	6109.1	6067.6	5887.3	5790.1	5867.3	6255.0	6874.5	5400.9
42.5°	6021.8	6093.4	6335.1	6595.5	6634.2	6432.4	6368.1	6393.8	6712.9	7479.7	5865.9
45°	6389.5	6456.8	6768.7	7122.0	7303.7	7146.4	7080.5	7076.3	7340.9	8331.0	6619.9
47.5°	6920.3	6980.4	7348.1	7697.2	8020.5	8042.0	7917.5	7960.4	8130.7	9326.7	7544.1
50°	7571.3	7712.9	7954.7	8318.1	8750.2	9099.3	9137.9	9080.7	9226.6	10479.9	8654.3
52.5°	8517.0	8571.3	8793.1	9092.1	9598.6	10190.9	10650.1	10571.5	10525.7	11578.7	9776.0
55°	9222.3	9295.3	9640.1	10050.7	10793.2	11574.4	12570.1	12597.3	12019.3	12634.5	10873.3
57.5°	9009.1	9120.7	9642.9	10468.4	12100.9	13528.7	14269.8	14288.4	13401.4	13660.3	12112.3
60°	7914.6	7967.6	8715.8	9817.5	12212.5	15646.2	16680.6	16530.3	14807.8	14807.8	13206.8
62.5°	5612.6	5695.6	6302.2	7923.2	11029.3	16381.5	19567.7	19257.2	16744.9	15905.1	13859.2
65°	3586.8	3506.7	3908.7	5001.7	8216.5	15295.6	22081.5	22100.1	18567.6	16344.3	13503.0
67°	2598.2	2566.7	2682.6	3419.4	5571.2	12857.7	22134.4	23114.4	19614.9	16066.8	12364.1
67.5°	2376.4	2400.7	2485.1	3084.6	5061.8	11700.3	21894.0	23054.3	19851.0	15899.4	11952.1
70°	1801.3	1759.8	1851.3	2181.8	3034.5	7381.0	18833.8	21144.3	19557.7	14238.3	9549.9
72.5°	1324.8	1320.5	1447.9	1784.1	2336.3	3931.6	14138.2	16953.8	15978.1	10841.9	6013.2
75°	894.2	934.2	1137.4	1490.8	2117.4	2549.5	9638.6	12299.7	11092.2	6156.3	2457.9
77.5°	509.3	512.2	732.5	1197.5	1901.4	2051.6	5711.4	7836.0	5871.6	2047.3	729.7
80°	220.3	241.8	363.4	869.9	1576.6	1817.0	3274.9	4306.4	2375.0	433.5	236.1
82.5°	81.6	95.9	160.2	535.1	1150.3	1496.5	1978.7	2055.9	805.5	153.1	147.4
85°	0.0	2.9	58.7	250.4	599.5	668.1	1322.0	1219.0	356.2	73.0	95.9
87.5°	0.0	0.0	0.0	25.8	78.7	248.9	410.6	457.8	85.8	25.8	22.9
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°	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6	5675.6
2.5°	5632.7	5539.7	5306.5	5073.3	4900.2	4755.7	4538.2	4419.4	4356.5	4263.5	4269.2
5°	5491.0	5302.2	4891.6	4466.7	4123.3	3788.5	3387.9	3226.2	3090.3	3013.1	2961.6
7.5°	5280.7	5001.7	4393.7	3827.1	3299.2	2714.0	2274.8	1981.5	1784.1	1711.1	1641.0
10°	5050.4	4679.8	3888.6	3103.2	2370.7	1766.9	1394.9	1126.0	1030.1	941.4	950.0
12.5°	4837.2	4386.5	3425.1	2449.4	1661.0	1123.1	875.6	765.4	734.0	723.9	723.9
15°	4662.7	4106.1	2927.2	1841.3	1138.8	806.9	701.0	671.0	659.6	656.7	656.7
17.5°	4476.7	3840.0	2478.0	1360.6	828.4	675.3	639.5	619.5	615.2	612.3	612.3
20°	4310.7	3572.5	2051.6	1012.9	669.6	608.0	585.2	572.3	568.0	565.1	566.6
22.5°	4153.3	3335.0	1651.0	765.4	589.4	553.7	530.8	517.9	509.3	502.2	503.6
25°	4013.1	3106.1	1327.7	626.6	530.8	499.3	476.4	457.8	439.2	430.6	429.2
27.5°	3914.4	2905.8	1034.4	536.5	477.9	443.5	414.9	392.0	367.7	354.8	352.0
30°	3832.9	2702.6	818.4	473.6	424.9	392.0	356.2	323.3	297.6	284.7	279.0
32.5°	3779.9	2509.5	645.2	422.1	380.6	340.5	300.4	267.5	238.9	226.1	223.2
35°	3771.3	2347.8	527.9	379.1	340.5	297.6	256.1	220.3	196.0	183.1	180.3
37.5°	3832.9	2223.3	442.1	344.8	307.6	260.4	214.6	181.7	160.2	150.2	148.8
40°	3997.4	2144.6	383.4	316.2	277.6	226.1	183.1	154.5	133.1	123.0	123.0
42.5°	4310.7	2147.5	344.8	289.0	247.5	193.1	155.9	128.8	110.2	101.6	98.7
45°	4800.0	2244.8	311.9	261.8	218.9	167.4	133.1	105.9	87.3	80.1	80.1
47.5°	5455.3	2437.9	283.3	234.6	193.1	143.1	113.0	85.8	70.1	63.0	63.0
50°	6312.3	2748.4	259.0	211.7	171.7	123.0	91.6	70.1	54.4	48.6	47.2
52.5°	7207.9	3131.8	230.3	191.7	147.4	104.4	74.4	54.4	41.5	37.2	35.8
55°	8196.5	3506.7	203.2	171.7	120.2	87.3	58.7	42.9	30.0	25.8	25.8
57.5°	9193.7	3874.3	170.3	143.1	94.4	64.4	45.8	31.5	20.0	15.7	15.7
60°	10037.8	3993.1	144.5	115.9	71.5	45.8	32.9	20.0	11.4	7.2	7.2
62.5°	10153.7	3592.5	121.6	88.7	51.5	31.5	17.2	11.4	4.3	2.9	2.9
65°	9524.2	2918.6	101.6	67.2	34.3	15.7	7.2	4.3	1.4	0.0	0.0
67°	8534.1	2366.4	83.0	50.1	24.3	10.0	4.3	1.4	0.0	0.0	0.0
67.5°	8280.9	2256.2	80.1	47.2	21.5	8.6	2.9	1.4	0.0	0.0	0.0
70°	6498.2	1689.7	57.2	28.6	12.9	5.7	0.0	0.0	0.0	0.0	0.0
72.5°	4038.9	955.7	41.5	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0
75°	1526.6	334.8	28.6	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	475.0	127.3	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.2	48.6	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.7	20.0	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.5	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	2.9	1.4	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)