

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: P459391

Luminaire Tested: **GALN-SA8C-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459391  
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-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 43747 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

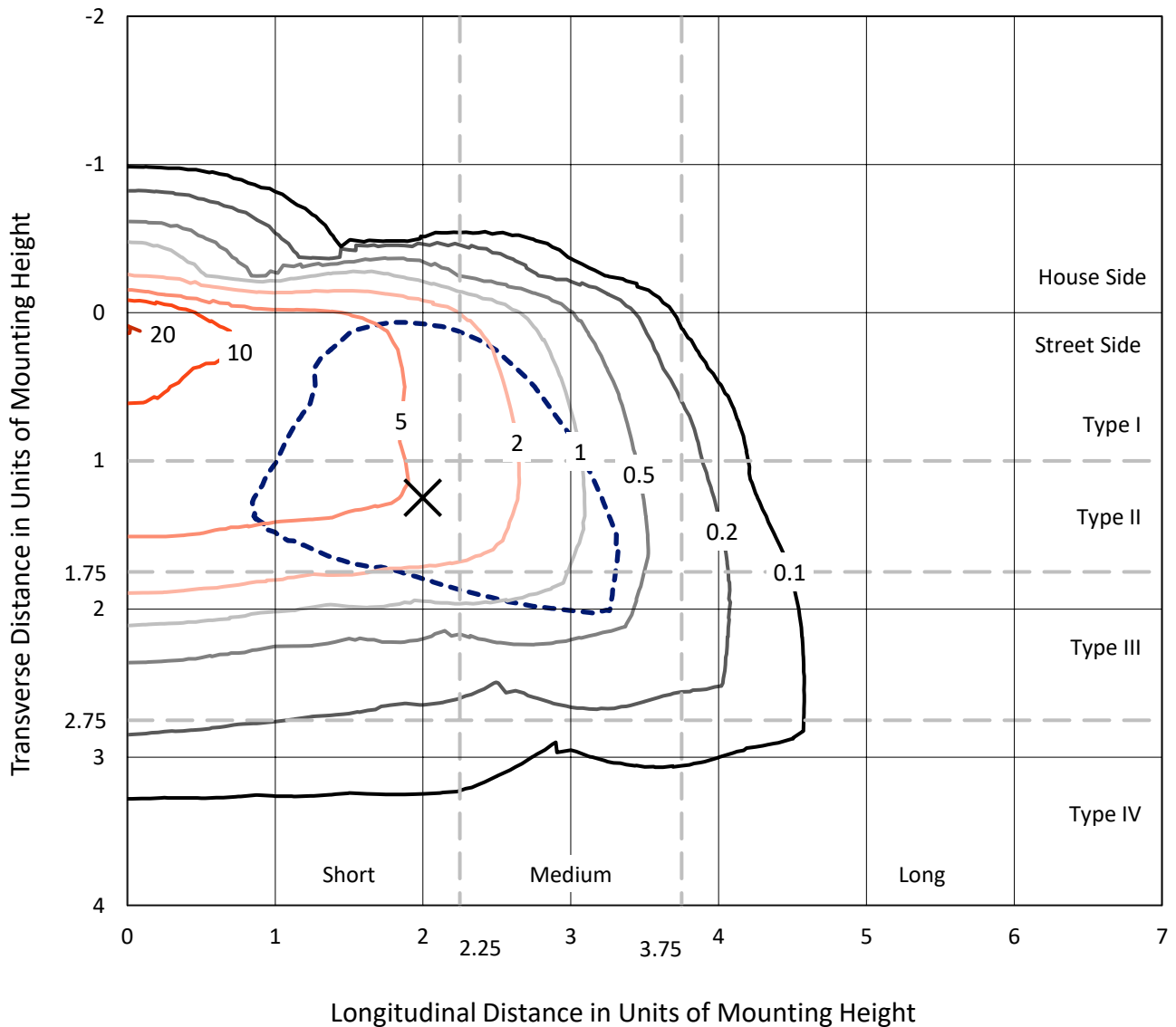
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459391  
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### Iso-Footcandle Lines of Horizontal Illumination

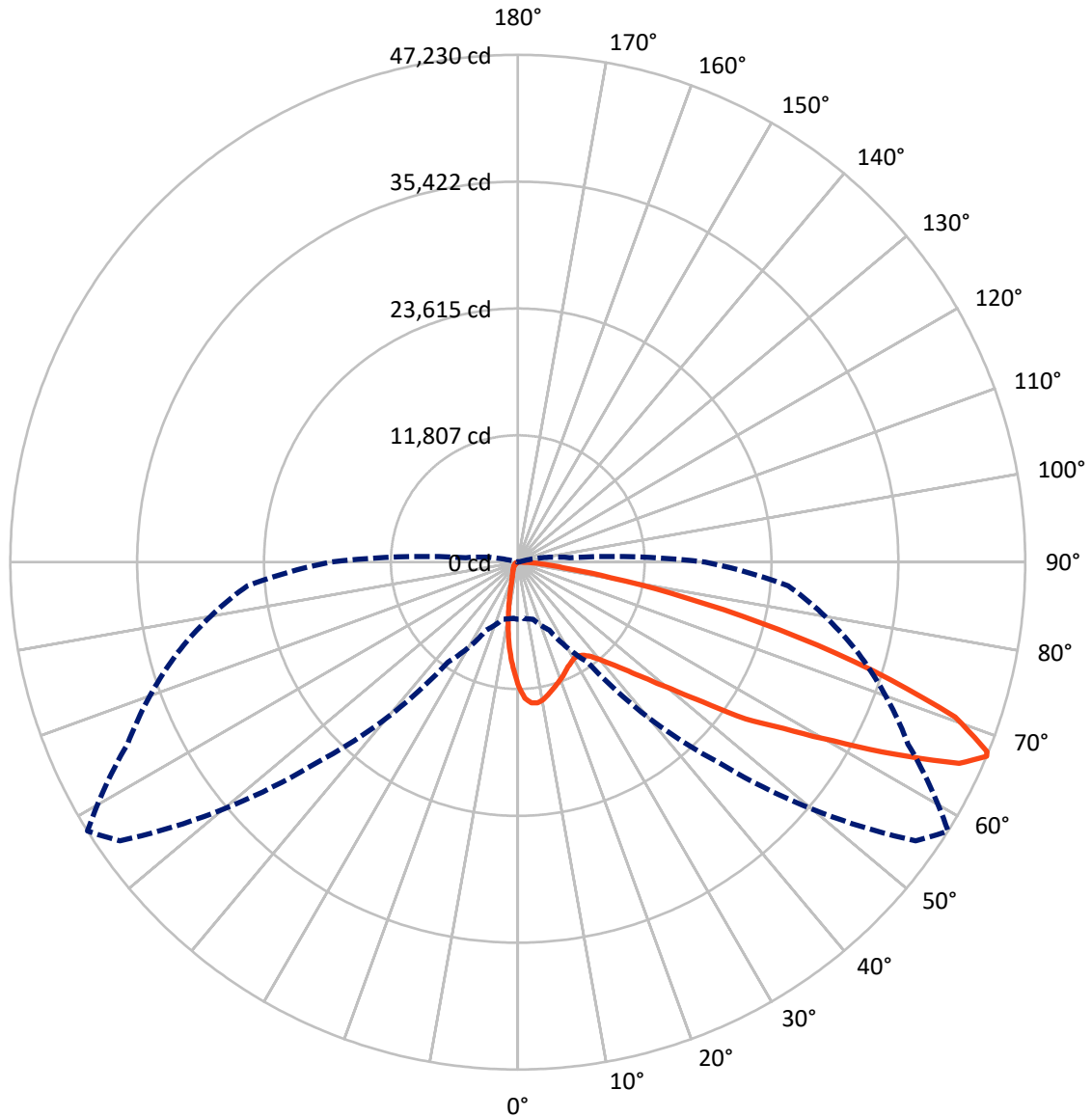
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P459391  
CATALOG NUMBER: GALN-SA8C-735-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459391

CATALOG NUMBER: GALN-SA8C-735-U-SL3-HSS

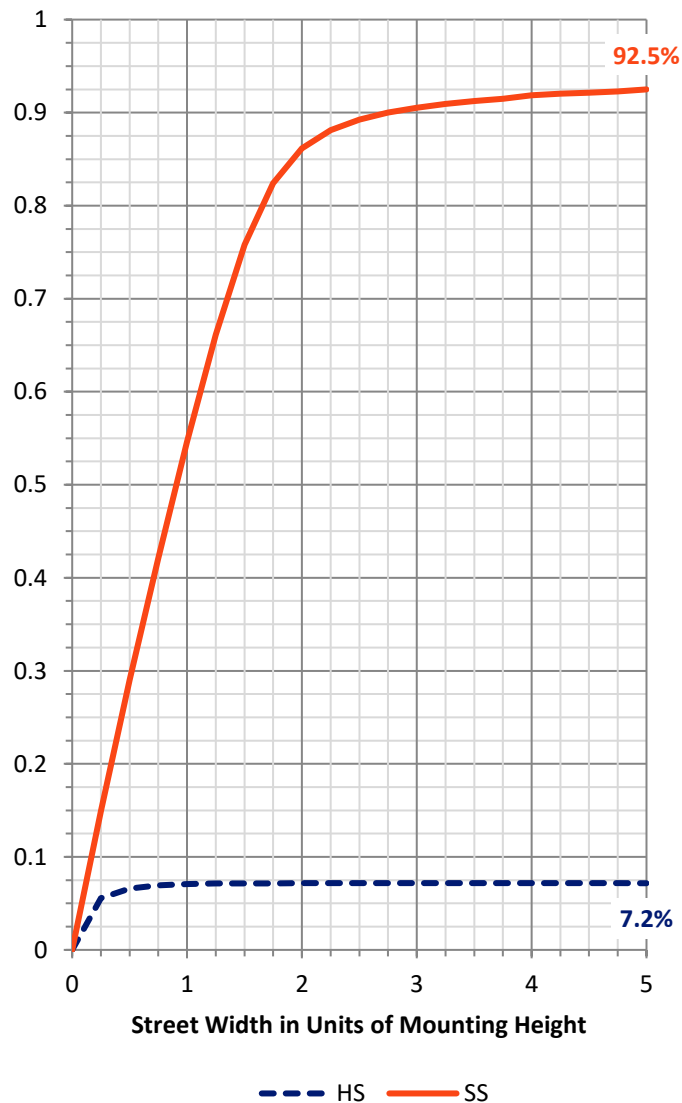
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3157.0	0.0	3157.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	40590.0	0.0	40590.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	43747.0	0.0	43747.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	941.1	2.2
10°-20°	2032.5	4.6
20°-30°	2754.1	6.3
30°-40°	3819.8	8.7
40°-50°	6092.2	13.9
50°-60°	10530.9	24.1
60°-70°	12029.5	27.5
70°-80°	5015.2	11.5
80°-90°	531.7	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°	43747.0	100.0
0°-180°	43747.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459391

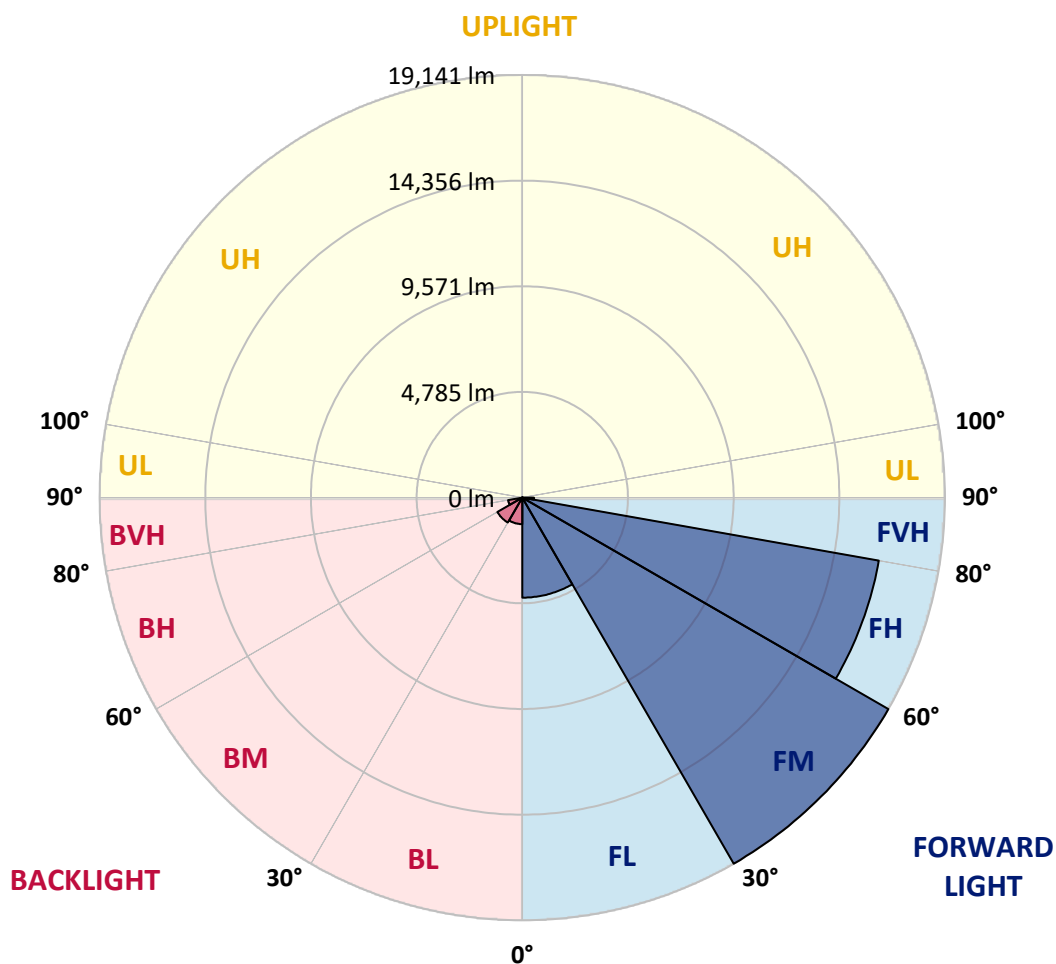
CATALOG NUMBER: GALN-SA8C-735-U-SL3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4528.9	10.4			
FM	(30°-60°)	19141.1	43.8			
FH	(60°-80°)	16392.1	37.5			G5
FVH	(80°-90°)	527.9	1.2			G4/750
BL	(0°-30°)	1198.8	2.7	B3/2500		
BM	(30°-60°)	1301.7	3.0	B2/2500		
BH	(60°-80°)	652.7	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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°	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9
2.5°	13459.1	13479.6	13403.6	13342.2	13184.3	13014.8	12789.7	12669.8	12465.2	12111.4	11719.7
5°	13774.8	13801.1	13789.4	13774.8	13713.4	13549.7	13263.2	13158.0	12856.9	12281.0	11573.5
7.5°	13073.2	13169.7	13181.4	13295.4	13403.6	13418.2	13310.0	13231.1	12953.4	12278.1	11313.4
10°	12143.6	12207.9	12301.5	12433.0	12693.2	12909.5	13014.8	13003.1	12842.3	12187.4	11009.3
12.5°	11205.2	11240.3	11383.5	11608.6	11927.3	12295.6	12576.3	12631.8	12634.7	12079.3	10755.0
15°	10398.4	10383.7	10494.8	10755.0	11202.3	11664.2	12167.0	12254.7	12395.0	11974.0	10518.2
17.5°	9708.4	9784.5	9802.0	10088.5	10500.7	11100.0	11740.2	11895.1	12175.8	11883.4	10322.3
20°	9281.6	9322.6	9360.6	9521.3	9892.6	10524.1	11339.7	11553.1	11971.1	11801.6	10103.1
22.5°	9155.9	9182.2	9150.1	9199.8	9462.9	10024.2	10904.1	11187.7	11775.3	11725.6	9924.8
25°	9252.4	9278.7	9202.7	9144.2	9234.9	9617.8	10483.1	10828.1	11617.4	11710.9	9790.3
27.5°	9486.3	9536.0	9430.7	9325.5	9272.9	9398.6	10152.8	10553.3	11509.2	11781.1	9728.9
30°	9851.7	9880.9	9802.0	9673.4	9553.5	9427.8	9980.3	10363.3	11480.0	11944.8	9723.1
32.5°	10249.3	10310.7	10266.8	10182.0	10027.1	9728.9	10030.0	10369.1	11550.2	12181.6	9796.1
35°	10740.4	10810.5	10851.5	10833.9	10635.1	10263.9	10345.7	10632.2	11737.2	12617.2	9994.9
37.5°	11222.7	11284.1	11515.1	11594.0	11418.6	11067.8	10959.6	11149.7	12149.4	13187.2	10354.5
40°	11775.3	11857.1	12181.6	12482.7	12397.9	12029.6	11830.8	11988.7	12780.9	14046.7	11035.6
42.5°	12304.4	12450.5	12944.6	13476.6	13555.6	13143.4	13011.8	13064.4	13716.4	15283.3	11985.7
45°	13055.7	13193.1	13830.4	14552.4	14923.7	14602.1	14467.7	14458.9	14999.7	17022.7	13526.3
47.5°	14140.2	14263.0	15014.3	15727.6	16388.3	16432.1	16177.8	16265.5	16613.4	19057.3	15414.8
50°	15470.4	15759.8	16253.8	16996.4	17879.2	18592.5	18671.4	18554.5	18852.7	21413.5	17683.3
52.5°	17402.7	17513.8	17966.9	18577.9	19612.8	20823.0	21761.4	21600.6	21507.1	23658.7	19975.2
55°	18843.9	18993.0	19697.5	20536.5	22053.7	23649.9	25684.5	25740.1	24559.1	25816.1	22217.5
57.5°	18408.3	18636.4	19703.4	21390.1	24725.7	27643.2	29157.5	29195.5	27383.0	27912.1	24749.1
60°	16172.0	16280.1	17809.0	20060.0	24953.7	31969.8	34083.3	33776.4	30256.7	30256.7	26985.4
62.5°	11468.3	11637.9	12877.4	16189.5	22536.1	33472.4	39982.7	39348.3	34214.9	32498.9	28318.5
65°	7328.8	7165.1	7986.6	10220.0	16788.8	31253.5	45119.0	45157.0	37939.2	33396.3	27590.6
67°	5308.8	5244.5	5481.3	6986.8	11383.5	26272.1	45227.1	47229.6	40079.1	32829.2	25263.6
67.5°	4855.7	4905.4	5077.9	6302.7	10342.8	23907.2	44736.0	47106.9	40561.5	32487.2	24421.7
70°	3680.5	3595.7	3782.8	4458.1	6200.4	15081.6	38483.0	43204.2	39962.2	29093.2	19513.4
72.5°	2707.0	2698.3	2958.4	3645.4	4773.8	8033.4	28888.5	34641.7	32648.0	22153.1	12286.8
75°	1827.1	1908.9	2324.1	3046.1	4326.6	5209.4	19694.6	25132.0	22664.7	12579.2	5022.3
77.5°	1040.7	1046.6	1496.8	2446.8	3885.1	4192.1	11670.0	16011.2	11997.4	4183.3	1490.9
80°	450.2	494.0	742.5	1777.4	3221.5	3712.7	6691.5	8799.3	4852.8	885.8	482.4
82.5°	166.6	195.9	327.4	1093.3	2350.4	3057.8	4043.0	4200.9	1645.8	312.8	301.1
85°	0.0	5.8	119.9	511.6	1224.9	1365.2	2701.2	2490.7	727.9	149.1	195.9
87.5°	0.0	0.0	0.0	52.6	160.8	508.7	839.0	935.5	175.4	52.6	46.8
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°	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9	11596.9
2.5°	11509.2	11319.2	10842.7	10366.2	10012.5	9717.2	9272.9	9030.2	8901.6	8711.6	8723.3
5°	11219.8	10833.9	9994.9	9126.7	8425.1	7741.0	6922.5	6592.2	6314.4	6156.6	6051.3
7.5°	10790.1	10220.0	8977.6	7820.0	6741.2	5545.6	4648.1	4048.8	3645.4	3496.3	3353.1
10°	10319.4	9562.3	7945.7	6340.7	4844.0	3610.3	2850.3	2300.7	2104.8	1923.6	1941.1
12.5°	9883.8	8963.0	6998.5	5004.8	3394.0	2294.8	1789.1	1564.0	1499.7	1479.2	1479.2
15°	9527.2	8390.0	5981.2	3762.4	2327.0	1648.8	1432.4	1371.1	1347.7	1341.8	1341.8
17.5°	9147.2	7846.3	5063.2	2780.1	1692.6	1379.8	1306.7	1265.8	1257.0	1251.2	1251.2
20°	8808.1	7299.6	4192.1	2069.7	1368.1	1242.4	1195.6	1169.3	1160.6	1154.7	1157.6
22.5°	8486.5	6814.3	3373.5	1564.0	1204.4	1131.3	1084.6	1058.3	1040.7	1026.1	1029.0
25°	8200.0	6346.6	2712.9	1280.4	1084.6	1020.2	973.5	935.5	897.5	879.9	877.0
27.5°	7998.3	5937.3	2113.6	1096.3	976.4	906.2	847.8	801.0	751.3	725.0	719.1
30°	7831.7	5522.2	1672.2	967.6	868.2	801.0	727.9	660.7	608.1	581.7	570.1
32.5°	7723.5	5127.6	1318.4	862.4	777.6	695.8	613.9	546.7	488.2	461.9	456.0
35°	7705.9	4797.2	1078.7	774.7	695.8	608.1	523.3	450.2	400.5	374.2	368.3
37.5°	7831.7	4542.9	903.3	704.5	628.5	532.0	438.5	371.3	327.4	307.0	304.0
40°	8167.8	4382.1	783.5	646.1	567.1	461.9	374.2	315.7	271.9	251.4	251.4
42.5°	8808.1	4387.9	704.5	590.5	505.7	394.7	318.6	263.1	225.1	207.6	201.7
45°	9807.8	4586.7	637.3	535.0	447.3	342.0	271.9	216.3	178.3	163.7	163.7
47.5°	11146.7	4981.4	578.8	479.4	394.7	292.3	230.9	175.4	143.2	128.6	128.6
50°	12897.8	5615.8	529.1	432.7	350.8	251.4	187.1	143.2	111.1	99.4	96.5
52.5°	14727.8	6399.2	470.7	391.7	301.1	213.4	152.0	111.1	84.8	76.0	73.1
55°	16747.9	7165.1	415.1	350.8	245.6	178.3	119.9	87.7	61.4	52.6	52.6
57.5°	18785.4	7916.4	347.9	292.3	192.9	131.6	93.5	64.3	40.9	32.2	32.2
60°	20510.2	8159.1	295.3	236.8	146.2	93.5	67.2	40.9	23.4	14.6	14.6
62.5°	20747.0	7340.5	248.5	181.2	105.2	64.3	35.1	23.4	8.8	5.8	5.8
65°	19460.7	5963.6	207.6	137.4	70.2	32.2	14.6	8.8	2.9	0.0	0.0
67°	17437.8	4835.2	169.6	102.3	49.7	20.5	8.8	2.9	0.0	0.0	0.0
67.5°	16920.3	4610.1	163.7	96.5	43.9	17.5	5.8	2.9	0.0	0.0	0.0
70°	13277.9	3452.5	116.9	58.5	26.3	11.7	0.0	0.0	0.0	0.0	0.0
72.5°	8252.6	1952.8	84.8	35.1	17.5	5.8	0.0	0.0	0.0	0.0	0.0
75°	3119.2	684.1	58.5	23.4	11.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	970.6	260.2	35.1	17.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	327.4	99.4	23.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	201.7	40.9	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	125.7	17.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	5.8	2.9	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)