

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: P647183

Luminaire Tested: **GALN-SA9C-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39954.9 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

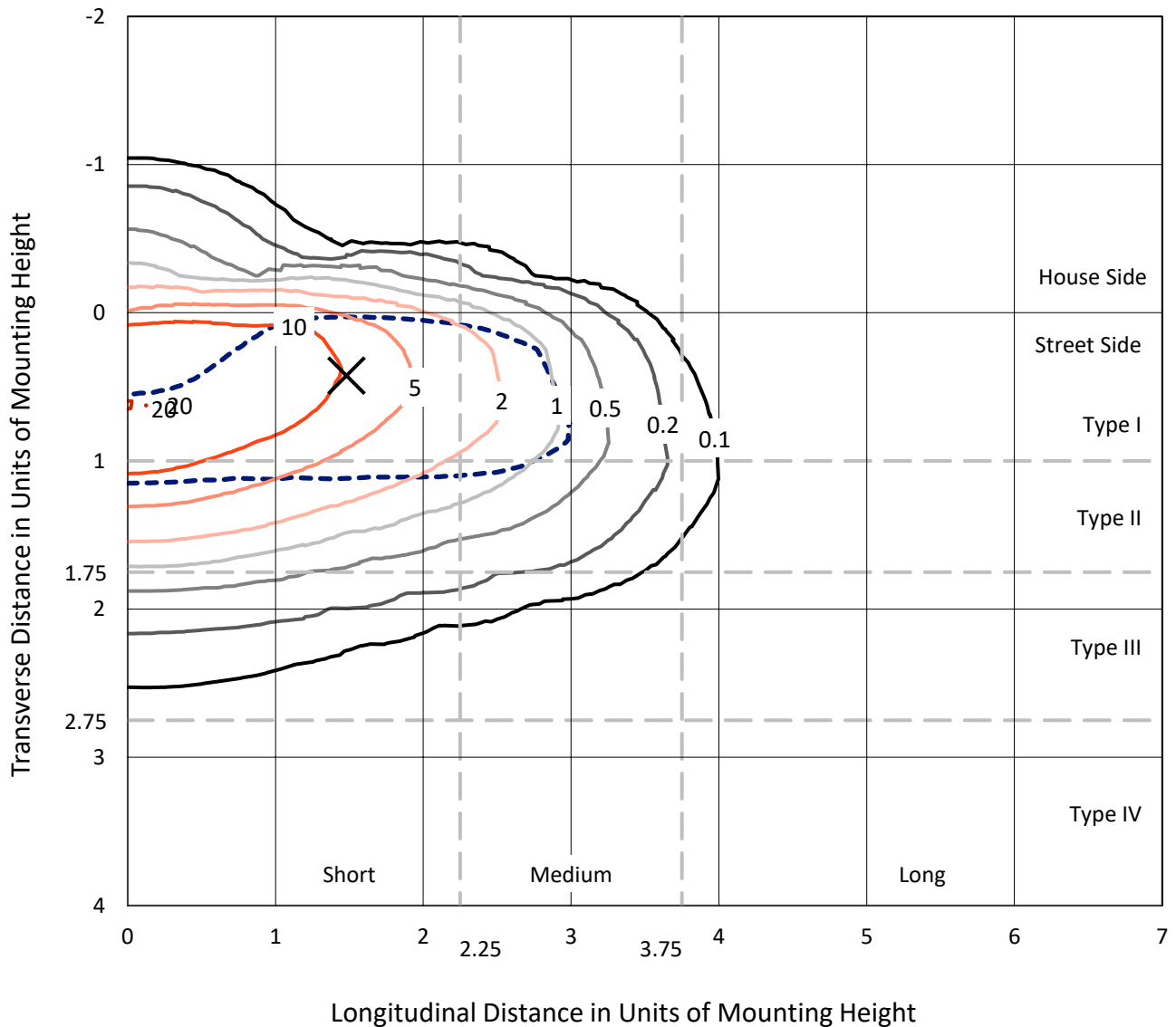
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647183  
 CATALOG NUMBER: GALN-SA9C-835-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

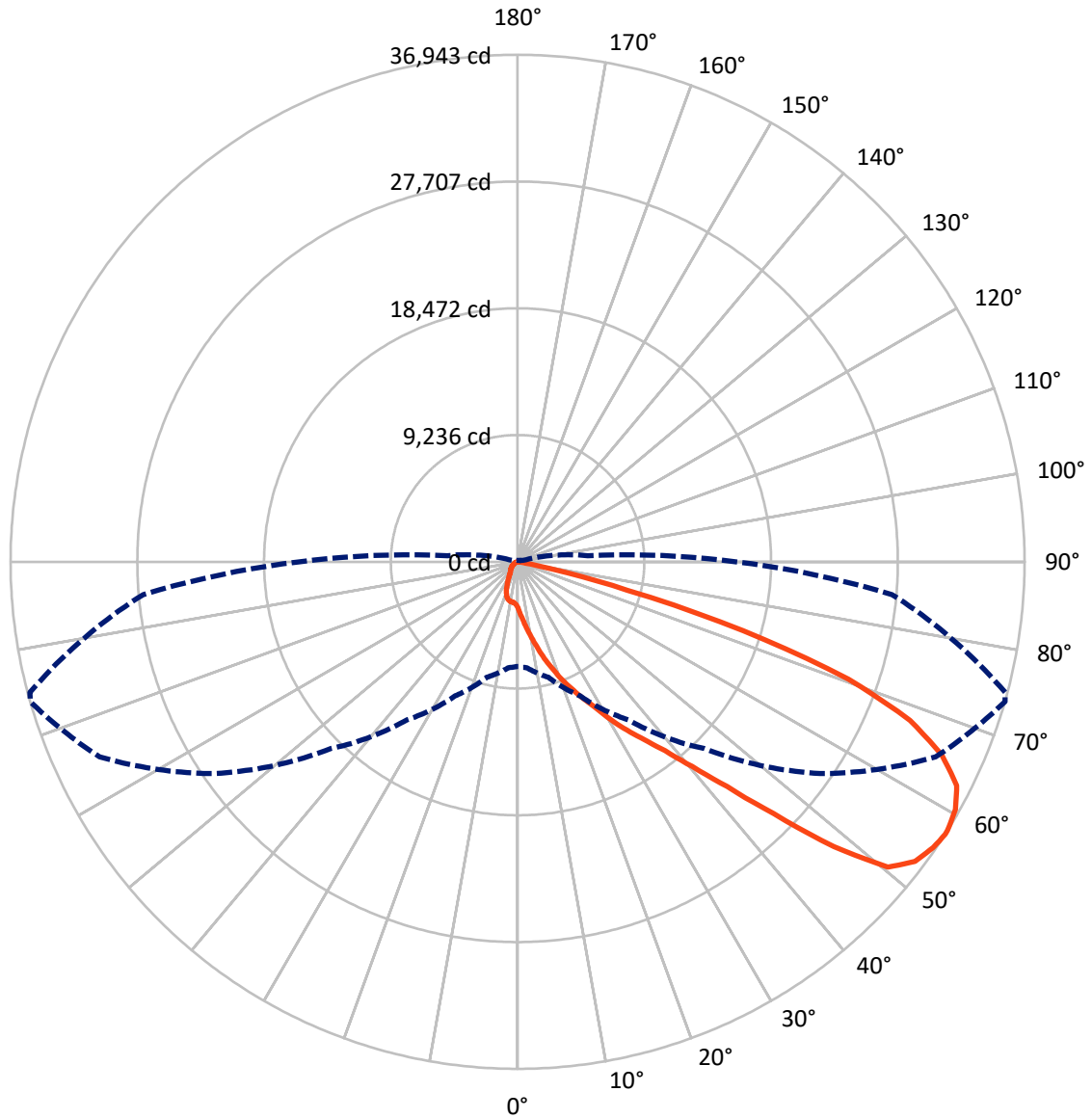
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P647183  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GALN-SA9C-835-U-T2R-HSS

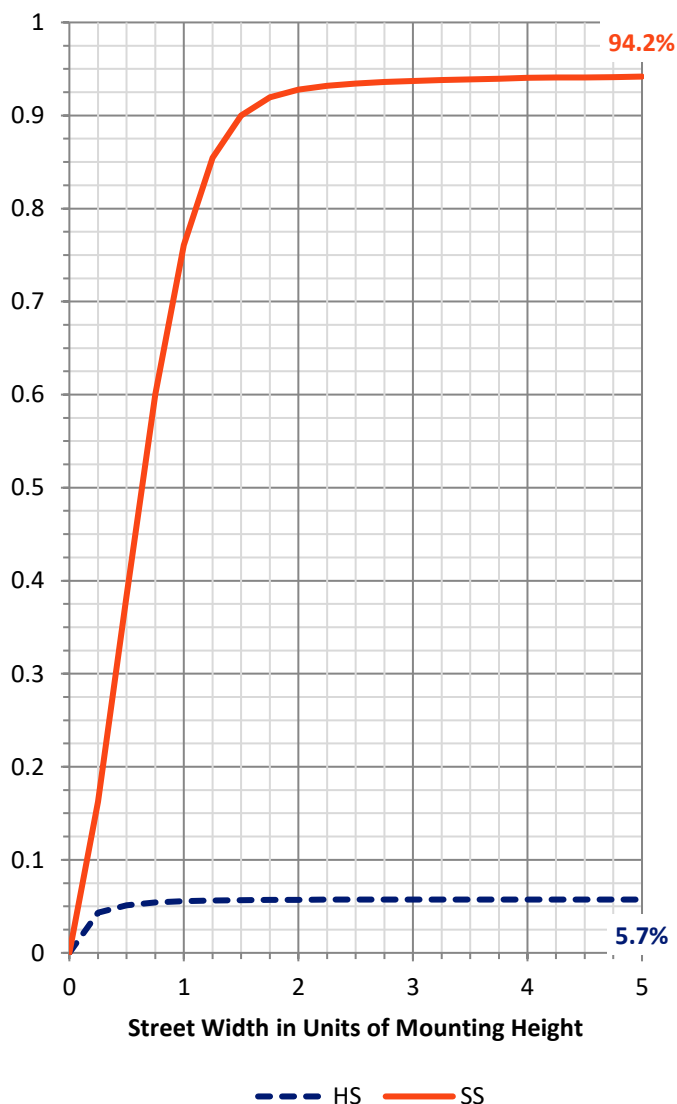
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2304.5	0.0	2304.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	37650.4	0.0	37650.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	39954.9	0.0	39954.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.9	1.0
10°-20°	1592.0	4.0
20°-30°	3406.4	8.5
30°-40°	6261.0	15.7
40°-50°	9598.2	24.0
50°-60°	10153.6	25.4
60°-70°	6630.6	16.6
70°-80°	1811.7	4.5
80°-90°	97.5	0.2
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°	39954.9	100.0
0°-180°	39954.9	100.0

**Coefficient of Utilization**



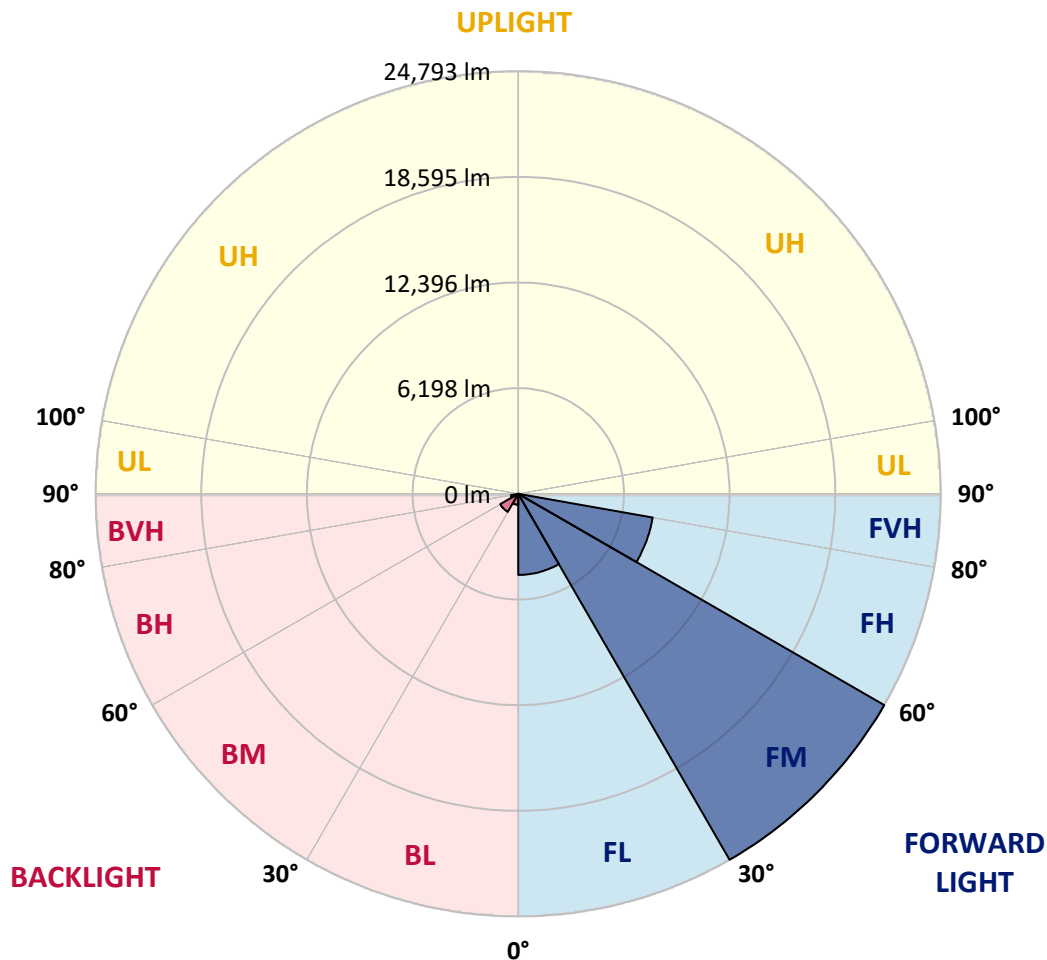
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 CATALOG NUMBER: GALN-SA9C-835-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4758.6	11.9			
FM (30°-60°)	24792.8	62.1			
FH (60°-80°)	8009.6	20.0			G4/12000
FVH (80°-90°)	89.5	0.2			G1/100
BL (0°-30°)	643.7	1.6	B2/1000		
BM (30°-60°)	1220.0	3.1	B2/2500		
BH (60°-80°)	432.6	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2
2.5°	4896.5	4852.3	4764.1	4733.8	4604.1	4402.7	4226.2	3988.9	3801.3	3782.0	3555.8
5°	6557.2	6457.9	6416.5	6217.9	5906.2	5613.7	5111.7	4731.0	4292.4	4259.3	3804.1
7.5°	8157.1	8019.3	7977.8	7790.3	7426.1	6965.4	6314.4	5622.0	4926.9	4863.4	4137.9
10°	9315.7	9335.1	9260.6	9136.4	8841.3	8372.3	7569.6	6623.4	5633.1	5553.0	4513.1
12.5°	10146.1	10143.4	10157.2	10154.4	9997.1	9641.3	8797.2	7707.5	6411.0	6253.7	4943.4
15°	10686.8	10695.1	10736.4	10879.9	10896.5	10675.7	9972.3	8744.7	7313.1	7117.2	5409.6
17.5°	11233.0	11290.9	11357.1	11492.3	11613.7	11525.4	11028.9	9826.1	8129.6	7983.4	5908.9
20°	12135.0	12215.0	12176.4	12259.2	12322.6	12330.9	11947.5	10824.7	9119.9	8874.4	6480.0
22.5°	13577.8	13575.0	13475.7	13326.7	13202.6	13197.1	12849.5	11850.9	10019.2	9781.9	7053.7
25°	15401.2	15409.5	15216.4	14791.6	14482.6	14104.6	13704.7	12750.2	10982.0	10689.5	7657.8
27.5°	17492.2	17439.8	17147.4	16562.6	15950.2	15304.7	14728.2	13795.8	12002.6	11759.9	8350.2
30°	19370.9	19351.5	19009.4	18295.0	17489.5	16841.2	16005.4	15106.0	13324.0	13026.1	9125.4
32.5°	21119.8	21147.3	20672.9	19933.6	19155.7	18408.1	17525.3	16358.4	14620.6	14198.5	9969.5
35°	22485.3	22512.9	22021.9	21406.7	20606.7	19986.0	19144.7	17693.6	15900.5	15544.7	10940.5
37.5°	23213.5	23249.4	22965.3	22501.9	22002.5	21690.8	20907.4	19412.2	17456.4	17241.2	12088.2
40°	23351.5	23392.8	23268.7	23144.6	23117.0	23340.4	23111.5	21437.1	19613.6	19277.1	13798.5
42.5°	22937.7	22992.9	23048.1	23323.9	23886.7	24705.9	25503.2	24184.6	22391.5	21939.1	15889.5
45°	21850.8	21845.3	22063.2	22777.7	24038.4	25787.3	28002.5	27624.6	26176.3	25638.4	18843.9
47.5°	19991.6	19963.9	20435.7	21453.6	23417.7	25986.0	30041.0	31801.1	31006.6	30510.1	22019.1
50°	17158.4	17293.7	18035.7	19456.4	21875.6	25384.5	30670.0	34540.3	34970.7	34443.8	24584.6
52.5°	13839.8	13834.4	14998.4	16926.7	19591.5	24060.4	30231.4	35036.9	36258.9	35856.2	25848.0
55°	10242.7	10314.4	11525.4	13470.2	16626.1	21643.9	28799.7	34526.5	36749.9	36465.8	26681.1
57°	7619.2	7746.1	8717.1	10775.1	14044.0	19252.2	26893.5	33613.5	36943.0	36788.6	27373.5
57.5°	7111.7	7117.2	8063.3	9933.7	13288.1	18333.6	26347.3	33232.8	36937.6	36852.1	27486.6
60°	4377.9	4515.8	5169.6	6714.4	9726.8	14308.9	22686.6	31045.2	36650.7	36774.8	27969.4
62.5°	2620.7	2678.6	3103.4	4046.9	6270.3	10444.0	18565.3	28245.2	35903.1	36281.0	27936.3
65°	1685.5	1699.3	1892.4	2449.6	3919.9	7059.2	14306.0	24546.0	33969.3	34664.5	26843.9
67.5°	1302.1	1324.1	1401.3	1608.3	2273.0	4397.2	10118.6	20598.4	30841.0	31737.6	24195.6
70°	1155.9	1166.9	1194.5	1260.7	1503.4	2482.7	6295.1	16090.9	25574.9	25828.7	18935.0
72.5°	943.4	973.8	1059.3	1081.4	1191.7	1550.3	3503.4	10799.9	17183.2	17246.7	10593.0
75°	731.0	736.6	863.4	926.9	1004.1	1067.5	1564.1	5445.5	8253.7	7812.3	4082.7
77.5°	546.2	571.0	629.0	708.9	819.3	764.1	700.7	2052.4	2562.8	2515.9	1186.2
80°	350.3	364.2	438.6	532.4	637.2	499.3	394.5	601.3	562.7	579.3	284.2
82.5°	176.6	179.3	281.4	433.1	405.5	251.0	248.3	245.5	209.7	206.9	132.4
85°	19.3	41.3	182.0	248.3	182.0	82.8	115.9	113.1	110.3	113.1	77.2
87.5°	2.7	2.7	30.4	35.9	24.8	27.6	33.1	35.9	44.2	41.3	33.1
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°	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2
2.5°	3445.5	3335.1	3131.0	2935.2	2789.0	2695.2	2573.8	2529.6	2466.2	2457.9	2427.5
5°	3594.4	3384.8	3029.0	2747.5	2521.3	2350.3	2201.3	2077.2	1977.9	1955.9	1966.9
7.5°	3806.9	3495.2	2998.6	2615.1	2300.7	2008.2	1771.0	1624.8	1520.0	1481.4	1486.9
10°	4046.9	3641.3	2993.1	2474.4	1994.5	1635.8	1376.5	1246.8	1186.2	1164.2	1139.3
12.5°	4331.0	3809.6	2979.3	2256.5	1657.9	1304.8	1120.0	1042.7	984.8	968.3	968.3
15°	4651.0	3988.9	2913.1	1986.2	1346.2	1078.6	954.5	893.8	874.5	857.9	857.9
17.5°	4984.8	4165.5	2775.1	1652.4	1117.3	924.1	846.9	811.0	783.5	764.1	764.1
20°	5365.4	4339.2	2554.5	1357.3	943.4	824.8	764.1	722.8	700.7	684.1	678.6
22.5°	5726.9	4479.9	2273.0	1114.4	822.1	742.0	686.9	642.8	620.7	612.4	612.4
25°	6102.0	4565.4	1933.8	921.4	750.3	673.1	612.4	576.5	557.3	551.7	549.0
27.5°	6466.2	4615.2	1635.8	805.5	684.1	609.6	551.7	524.1	504.8	499.3	502.1
30°	6907.5	4623.4	1346.2	722.8	626.2	549.0	496.6	471.8	460.7	455.2	452.4
32.5°	7354.4	4612.3	1131.0	673.1	571.0	496.6	452.4	433.1	424.9	416.6	416.6
35°	7856.5	4554.4	962.8	623.4	518.6	452.4	413.8	397.2	386.2	378.0	375.1
37.5°	8479.9	4524.1	866.2	568.3	471.8	411.0	375.1	358.6	350.3	339.3	336.5
40°	9462.0	4659.2	835.9	518.6	424.9	372.4	339.3	320.0	309.0	297.9	295.2
42.5°	10686.8	4896.5	786.2	468.9	383.4	336.5	303.4	281.4	262.1	248.3	242.7
45°	12273.0	5208.2	708.9	416.6	347.6	297.9	267.6	240.0	215.2	204.1	201.4
47.5°	13936.4	5508.9	640.0	375.1	309.0	264.8	231.7	201.4	179.3	171.0	168.3
50°	14957.1	5569.6	595.9	328.2	270.4	228.9	195.8	168.3	154.5	146.2	146.2
52.5°	15423.3	5473.0	535.2	286.9	234.5	201.4	168.3	146.2	138.0	132.4	129.7
55°	15748.8	5324.1	455.2	248.3	201.4	171.0	148.9	132.4	121.4	115.9	113.1
57°	15939.1	5122.7	394.5	217.9	173.8	148.9	132.4	118.6	107.6	96.5	96.5
57.5°	15947.4	5045.5	378.0	215.2	165.5	143.4	129.7	115.9	102.1	91.1	88.2
60°	15701.9	4515.8	303.4	182.0	132.4	121.4	107.6	91.1	71.7	60.7	57.9
62.5°	14912.9	3842.7	251.0	154.5	107.6	93.8	77.2	69.0	49.6	35.9	35.9
65°	13718.5	3117.2	215.2	124.1	88.2	69.0	52.4	49.6	30.4	16.5	13.8
67.5°	11991.6	2427.5	182.0	102.1	74.5	49.6	35.9	33.1	16.5	5.5	0.0
70°	9136.4	1655.2	151.7	82.8	55.2	35.9	24.8	19.3	11.0	2.7	0.0
72.5°	5266.1	910.3	126.9	63.4	41.3	27.6	19.3	11.0	11.0	0.0	0.0
75°	1881.4	391.7	96.5	46.9	33.1	22.1	13.8	5.5	8.3	2.7	0.0
77.5°	598.6	209.7	63.4	35.9	27.6	16.5	11.0	5.5	5.5	2.7	0.0
80°	176.6	110.3	38.6	30.4	19.3	13.8	8.3	2.7	5.5	2.7	0.0
82.5°	96.5	55.2	30.4	22.1	19.3	11.0	8.3	2.7	2.7	2.7	0.0
85°	49.6	33.1	24.8	22.1	19.3	11.0	8.3	2.7	0.0	2.7	2.7
87.5°	27.6	24.8	24.8	22.1	19.3	13.8	8.3	2.7	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)