

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: P648646

Luminaire Tested: **GALN-SA9B-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33056.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

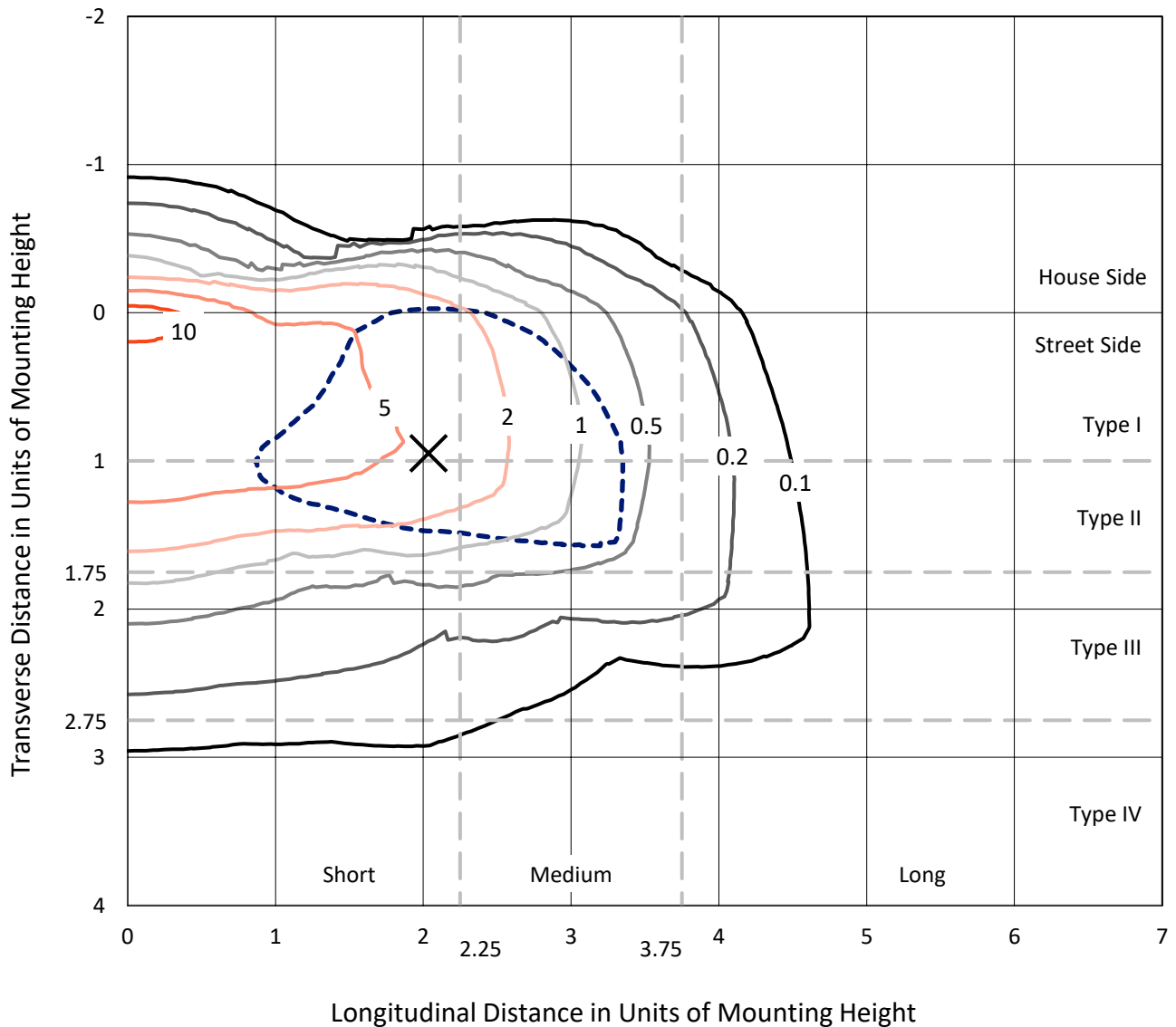
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9B-835-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

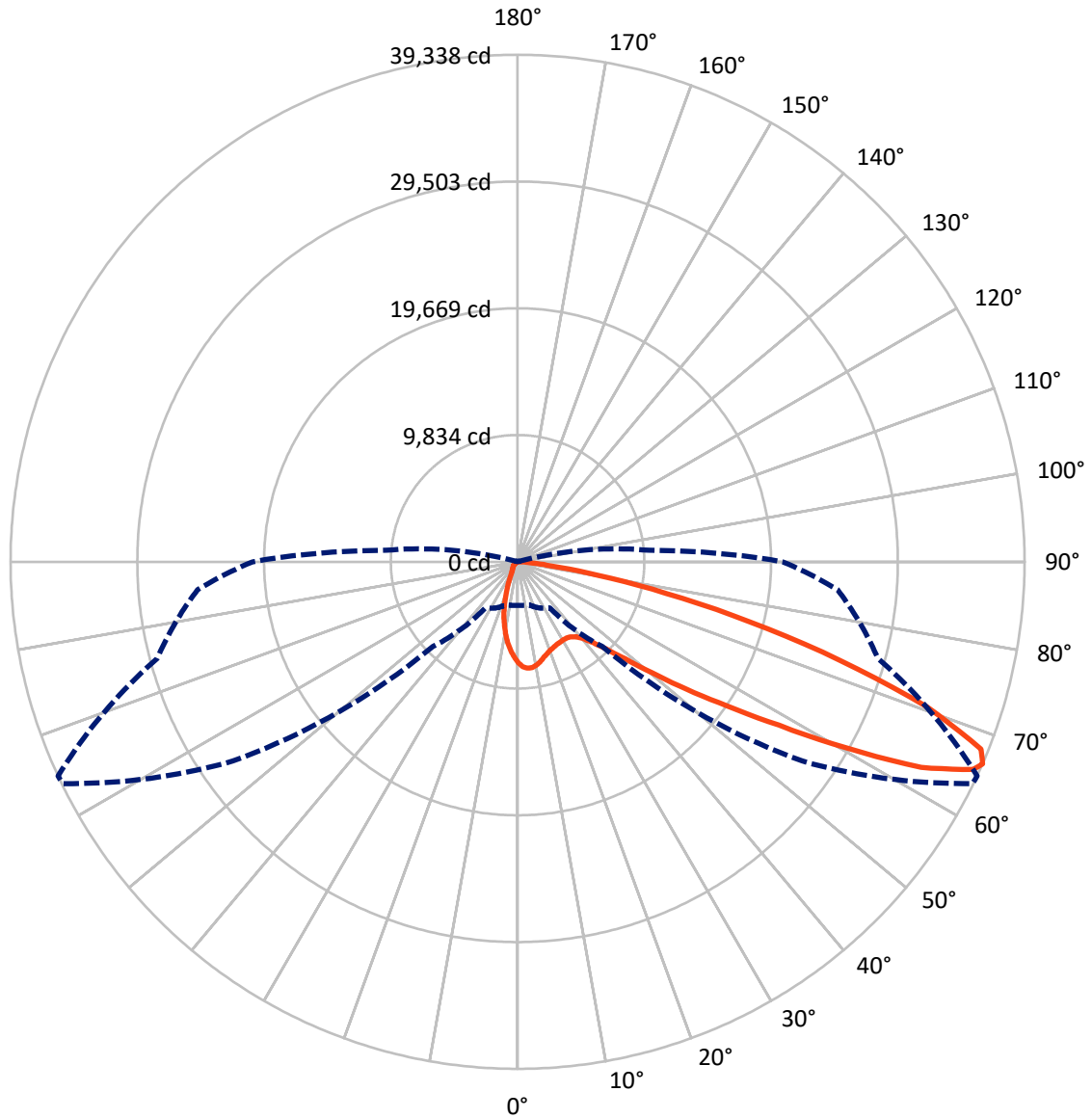
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA9B-835-U-SL2-HSS

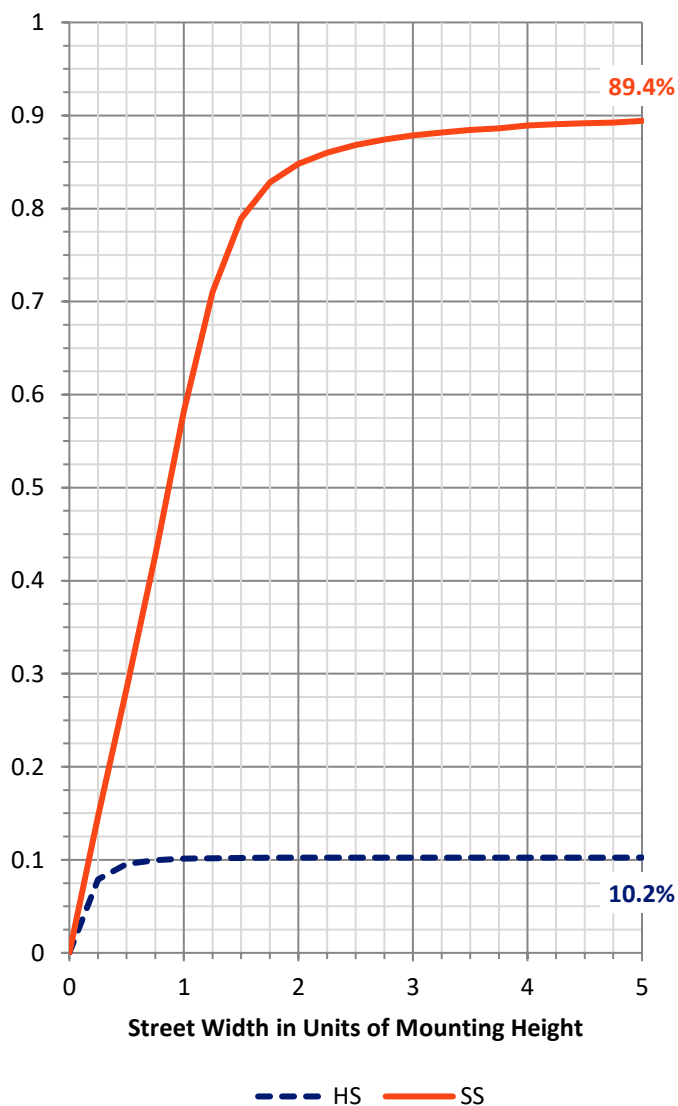
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3418.5	0.0	3418.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	29638.2	0.0	29638.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	33056.7	0.0	33056.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.1	1.9
10°-20°	1396.9	4.2
20°-30°	2001.0	6.1
30°-40°	2922.7	8.8
40°-50°	4900.8	14.8
50°-60°	8178.7	24.7
60°-70°	8681.4	26.3
70°-80°	3931.8	11.9
80°-90°	402.3	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°	33056.7	100.0
0°-180°	33056.7	100.0

**Coefficient of Utilization**



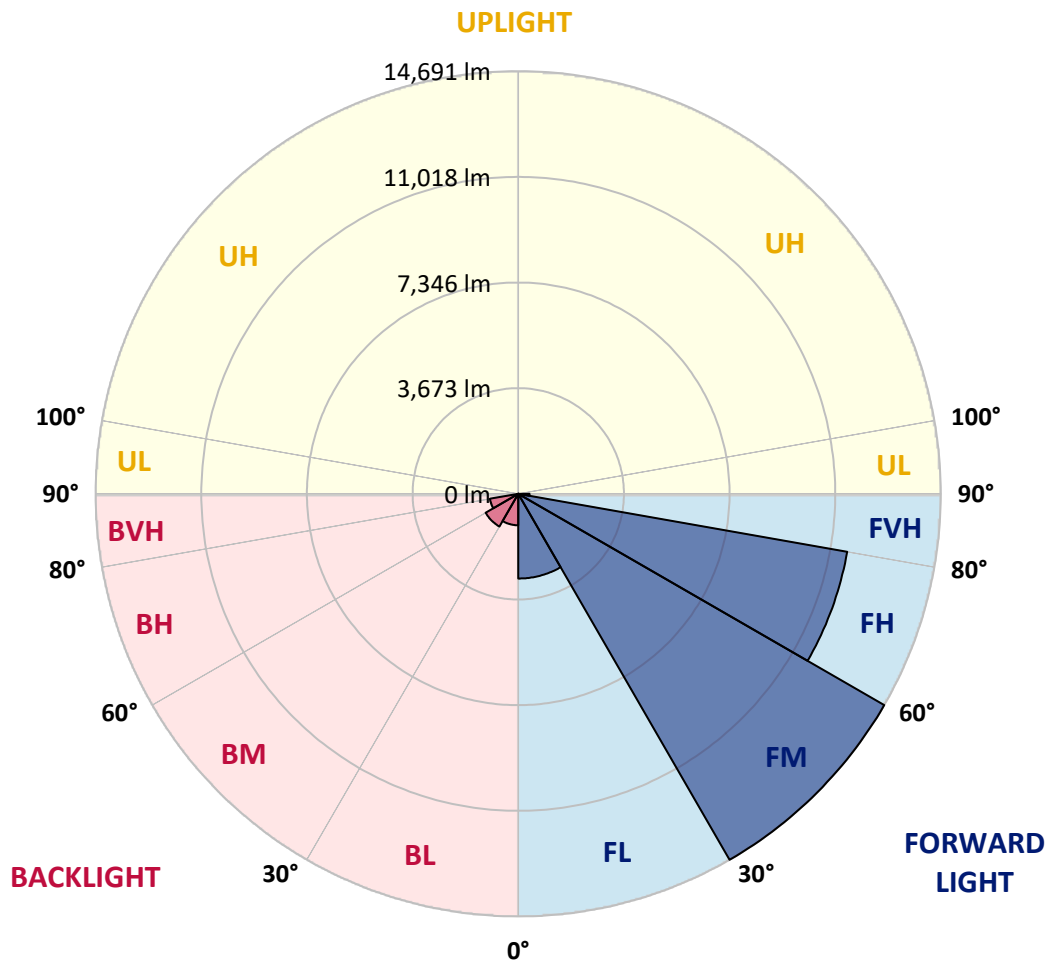
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 CATALOG NUMBER: GALN-SA9B-835-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2945.5	8.9			
FM (30°-60°)	14691.1	44.4			
FH (60°-80°)	11612.1	35.1			G4/12000
FVH (80°-90°)	389.5	1.2			G3/500
BL (0°-30°)	1093.5	3.3	B3/2500		
BM (30°-60°)	1311.0	4.0	B2/2500		
BH (60°-80°)	1001.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	12.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9
2.5°	8261.0	8269.9	8281.0	8296.7	8307.8	8274.4	8227.5	8173.9	8162.7	8048.8	7910.4
5°	7818.9	7832.3	7930.5	7984.1	8104.7	8214.1	8283.3	8292.2	8287.7	8180.5	7959.5
7.5°	7189.3	7227.2	7323.2	7417.0	7642.5	7850.1	8095.8	8267.6	8278.8	8249.8	7975.2
10°	6678.0	6702.6	6751.7	6937.0	7124.5	7441.6	7785.4	8109.1	8135.9	8252.0	7961.8
12.5°	6278.3	6314.0	6374.3	6517.2	6742.7	7041.9	7432.6	7868.0	7923.8	8209.6	7923.8
15°	5999.2	6017.1	6077.3	6218.0	6436.8	6713.7	7108.9	7615.7	7664.8	8153.8	7917.1
17.5°	5867.5	5887.6	5930.1	6041.6	6222.5	6479.2	6865.5	7412.5	7475.1	8118.1	7941.7
20°	5903.2	5921.0	5923.3	5981.3	6104.2	6320.8	6686.9	7222.7	7303.1	8095.8	7981.8
22.5°	6106.4	6108.7	6081.9	6055.0	6097.5	6253.7	6577.5	7102.2	7184.8	8091.3	8028.7
25°	6410.0	6416.8	6372.1	6278.3	6193.5	6273.9	6552.9	7024.1	7097.7	8080.1	8057.8
27.5°	6829.8	6827.5	6814.1	6657.8	6416.8	6363.1	6573.1	6981.6	7044.1	8048.8	8068.9
30°	7417.0	7399.1	7370.1	7193.7	6825.3	6579.7	6657.8	6954.8	7012.9	8004.2	8039.9
32.5°	7995.2	8062.2	8057.8	7890.3	7430.4	6966.0	6834.3	6990.5	7033.0	7975.2	7997.5
35°	8669.5	8667.3	8839.2	8776.7	8238.6	7459.4	7135.6	7108.9	7142.4	7995.2	7977.4
37.5°	9294.7	9352.7	9620.6	9685.4	9194.2	8156.0	7562.1	7363.4	7374.5	8131.5	8026.5
40°	10073.8	10185.5	10585.1	10801.7	10368.6	9189.8	8191.7	7830.0	7832.3	8466.3	8211.8
42.5°	11078.6	11255.0	11627.9	11989.5	11757.3	10413.3	9136.1	8569.1	8564.6	9055.8	8636.0
45°	12299.8	12422.7	12846.8	13420.7	13273.3	12121.2	10511.5	9714.4	9656.3	10022.6	9388.5
47.5°	13353.7	13521.2	13952.0	14606.2	15276.0	14206.6	12154.7	11288.4	11250.5	11560.8	10678.9
50°	13813.6	13961.0	14414.2	15331.8	16955.0	16943.9	14601.8	13585.9	13521.2	13688.6	12675.0
52.5°	13309.0	13447.5	13905.1	15048.3	17745.4	20279.5	18147.3	16468.3	16390.1	16175.8	15059.4
55°	11581.0	11694.8	12371.3	13684.1	17441.7	22503.3	23032.4	20029.5	19725.8	18893.0	17758.8
57.5°	9221.0	9163.0	9582.7	11107.6	15660.1	23249.0	28047.0	24465.8	23923.2	21241.8	20042.8
60°	6390.0	6568.6	6738.3	7742.9	11775.2	21956.3	31166.1	30043.0	29328.6	23552.6	22230.9
62.5°	4697.6	4815.9	4927.6	5392.0	7403.6	17531.1	31717.5	35772.1	35138.0	26006.3	24318.4
65°	3715.2	3724.1	3768.7	4226.5	4878.4	11400.1	29067.3	39002.8	38839.8	28368.5	25164.6
66°	3384.8	3387.0	3456.2	3947.4	4378.3	9283.5	26944.0	39248.4	39337.7	28935.6	24916.8
67.5°	2958.3	2949.4	3049.9	3547.8	3987.6	6693.6	23144.0	38252.6	38781.8	29371.0	24026.0
70°	2292.9	2281.8	2404.6	2976.2	3672.7	4465.4	15383.2	32845.0	33698.0	28480.1	21257.4
72.5°	1527.2	1536.1	1745.9	2348.8	3505.3	3931.8	9254.5	24986.0	26191.7	23519.1	16722.8
75°	890.8	906.5	1145.4	1745.9	3043.1	3748.7	5237.9	17816.9	18587.1	16240.6	10417.7
77.5°	466.7	473.3	640.8	1152.0	2333.2	3480.7	3489.7	11382.2	11743.9	7892.6	4123.7
80°	247.8	241.2	343.8	694.4	1605.3	3056.5	2831.0	6026.0	6264.9	2344.3	1042.6
82.5°	93.8	102.7	183.1	455.5	948.9	2194.7	2438.1	2663.6	2581.0	515.8	437.6
85°	17.9	22.3	78.1	270.1	477.8	917.6	1797.3	1306.1	1210.1	194.3	252.3
87.5°	2.3	4.5	22.3	64.8	69.2	310.4	531.3	361.7	312.6	71.4	104.9
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°	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9	7838.9
2.5°	7843.4	7783.2	7582.2	7383.5	7180.3	6997.2	6872.2	6669.0	6617.7	6544.0	6501.6
5°	7827.8	7687.1	7300.8	6878.9	6486.0	6061.8	5738.0	5425.4	5258.0	5173.1	5141.9
7.5°	7783.2	7559.9	6957.0	6296.2	5666.6	5032.5	4481.0	4061.3	3791.1	3605.8	3480.7
10°	7693.8	7385.7	6557.4	5648.7	4697.6	3860.3	3161.5	2630.1	2219.3	2089.8	2094.3
12.5°	7602.3	7191.5	6110.8	4929.8	3750.9	2694.9	1953.6	1533.8	1337.4	1272.6	1259.2
15°	7517.4	7006.2	5673.2	4233.2	2793.1	1745.9	1259.2	1111.9	1058.3	1047.1	1044.9
17.5°	7472.8	6834.3	5206.6	3436.1	1949.1	1185.5	1009.2	969.0	953.4	942.2	937.7
20°	7434.8	6684.6	4760.1	2690.4	1332.9	971.2	904.2	866.3	839.5	828.3	821.6
22.5°	7408.0	6530.6	4297.9	2083.1	1020.3	861.8	801.6	752.4	714.5	701.1	692.1
25°	7367.9	6360.9	3831.3	1522.7	859.6	765.8	696.6	638.5	589.4	564.9	560.4
27.5°	7309.9	6168.9	3320.0	1127.5	768.0	681.0	596.1	524.7	475.6	448.7	451.0
30°	7216.0	5967.9	2808.7	895.3	694.4	593.9	502.4	433.2	386.3	366.1	363.9
32.5°	7104.4	5724.6	2339.8	768.0	627.4	515.8	419.8	359.5	323.8	308.1	305.8
35°	6999.5	5479.0	1862.1	689.9	558.2	444.3	352.7	301.4	274.6	261.2	263.5
37.5°	6941.5	5260.2	1451.2	627.4	502.4	381.8	303.6	259.0	234.4	223.2	221.0
40°	6979.3	5081.6	1154.3	571.6	439.8	328.2	261.2	223.2	198.7	183.1	183.1
42.5°	7158.0	5003.4	931.1	518.0	381.8	283.5	227.7	192.0	165.2	149.6	151.8
45°	7702.8	5086.1	779.2	468.9	328.2	245.6	196.5	158.6	134.0	122.8	120.6
47.5°	8607.0	5396.4	674.2	417.5	281.3	209.8	165.2	131.7	107.2	98.3	96.0
50°	10187.8	6037.2	596.1	366.1	238.9	178.6	136.2	104.9	84.9	75.9	75.9
52.5°	12362.4	7434.8	540.3	308.1	200.9	151.8	111.7	84.9	66.9	60.3	58.0
55°	14635.3	8908.4	511.3	259.0	167.5	125.0	89.3	66.9	51.4	44.6	42.4
57.5°	16821.0	10064.9	477.8	209.8	134.0	96.0	69.2	51.4	35.7	31.2	29.0
60°	18917.5	11000.4	406.4	167.5	104.9	69.2	51.4	35.7	24.6	20.1	20.1
62.5°	20793.0	11545.3	319.3	134.0	80.4	49.1	33.5	26.8	17.9	13.4	13.4
65°	21011.8	10837.4	241.2	102.7	58.0	31.2	20.1	20.1	13.4	8.9	8.9
66°	20572.0	10236.9	212.1	93.8	51.4	26.8	17.9	15.7	11.2	6.7	6.7
67.5°	19589.6	9212.1	183.1	80.4	42.4	20.1	13.4	13.4	8.9	4.5	4.5
70°	16926.0	7524.2	145.1	60.3	31.2	15.7	8.9	8.9	6.7	4.5	4.5
72.5°	12900.5	5617.5	118.3	44.6	22.3	11.2	6.7	6.7	6.7	4.5	4.5
75°	7780.9	3025.3	91.5	33.5	20.1	8.9	4.5	6.7	8.9	6.7	4.5
77.5°	2866.8	1029.3	71.4	26.8	15.7	8.9	4.5	4.5	8.9	6.7	6.7
80°	703.3	267.9	51.4	22.3	15.7	8.9	4.5	4.5	8.9	8.9	8.9
82.5°	326.0	113.8	35.7	20.1	15.7	8.9	4.5	4.5	6.7	8.9	8.9
85°	187.5	53.6	29.0	22.3	15.7	8.9	4.5	4.5	6.7	8.9	8.9
87.5°	75.9	26.8	26.8	22.3	17.9	11.2	4.5	4.5	4.5	6.7	6.7
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)