

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: P455360

Luminaire Tested: **GALN-SA6C-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455360  
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-SA6C-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 34486 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

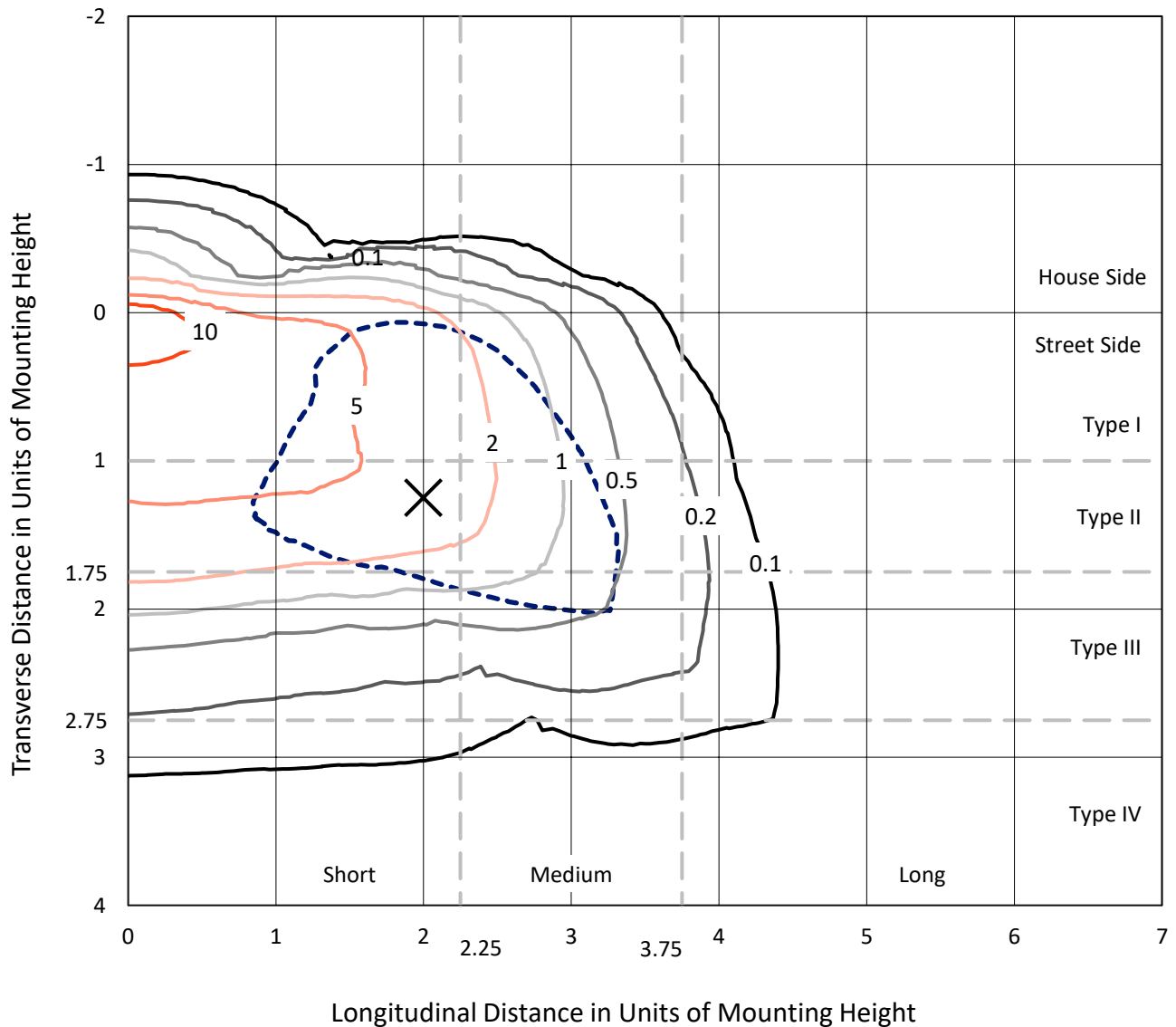
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

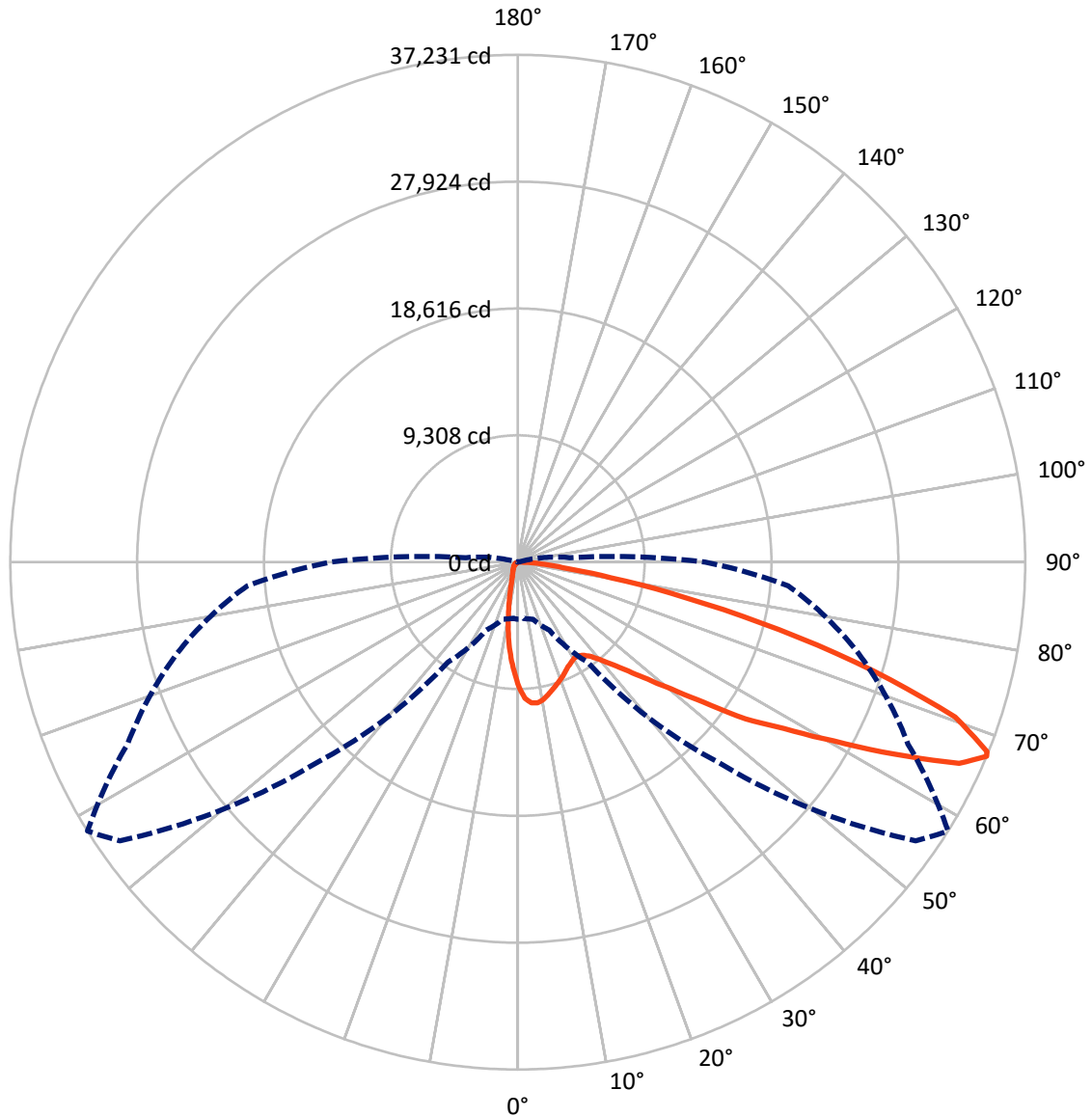
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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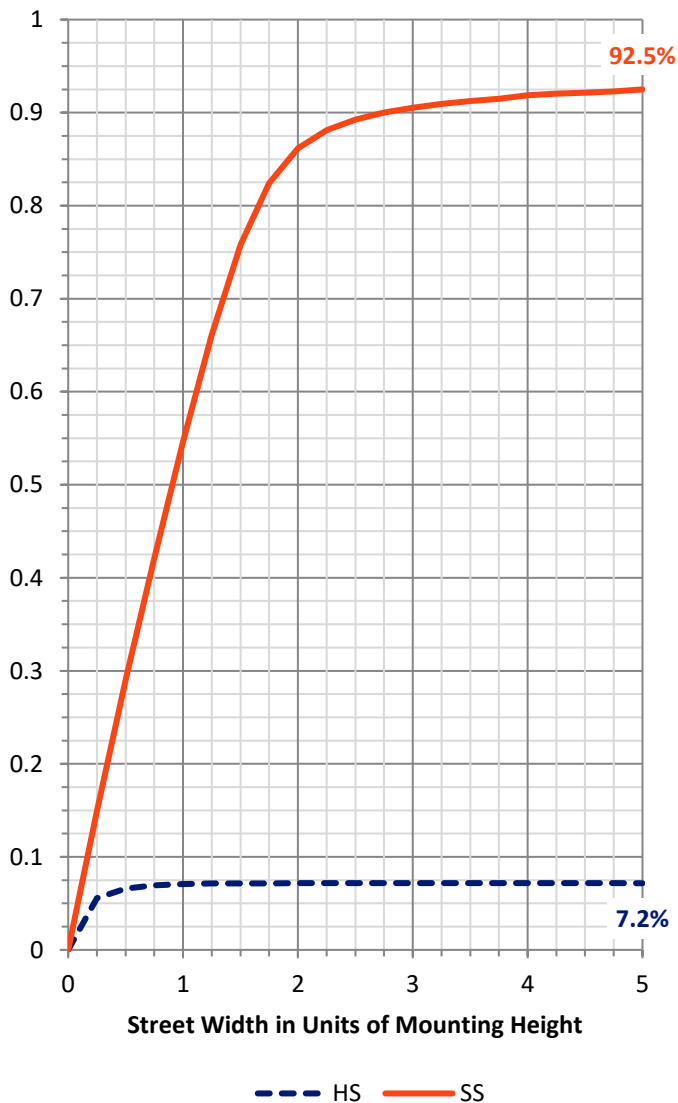
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2488.7	0.0	2488.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	31997.3	0.0	31997.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34486.0	0.0	34486.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.8	2.2
10°-20°	1602.2	4.6
20°-30°	2171.1	6.3
30°-40°	3011.2	8.7
40°-50°	4802.5	13.9
50°-60°	8301.5	24.1
60°-70°	9482.9	27.5
70°-80°	3953.5	11.5
80°-90°	419.2	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°	34486.0	100.0
0°-180°	34486.0	100.0



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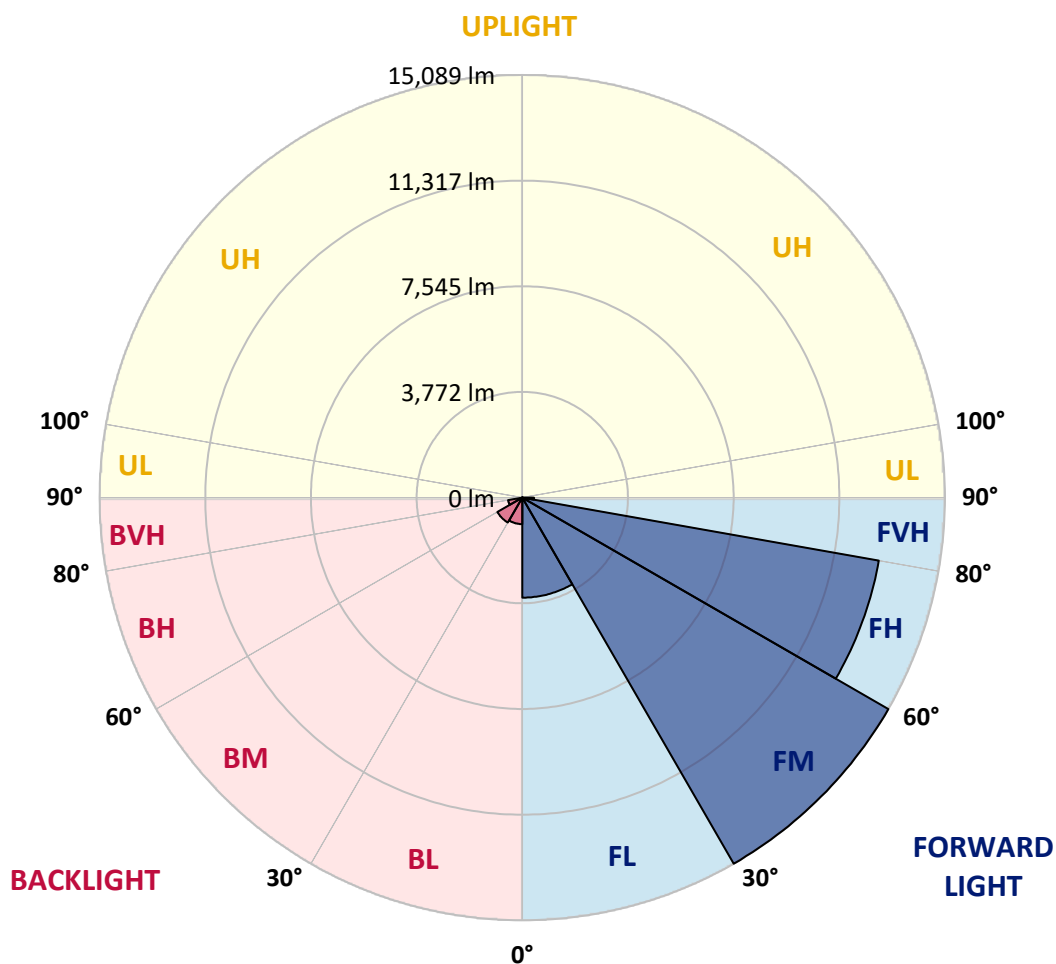
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3570.1	10.4			
FM	(30°-60°)	15089.1	43.8			
FH	(60°-80°)	12921.9	37.5			G5
FVH	(80°-90°)	416.1	1.2			G3/500
BL	(0°-30°)	945.0	2.7	B2/1000		
BM	(30°-60°)	1026.2	3.0	B2/2500		
BH	(60°-80°)	514.5	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9
2.5°	10609.9	10626.0	10566.1	10517.7	10393.3	10259.6	10082.2	9987.7	9826.4	9547.5	9238.7
5°	10858.8	10879.5	10870.3	10858.8	10810.4	10681.3	10455.5	10372.5	10135.2	9681.2	9123.5
7.5°	10305.7	10381.7	10391.0	10480.8	10566.1	10577.6	10492.4	10430.1	10211.2	9678.9	8918.4
10°	9572.9	9623.6	9697.3	9801.0	10006.1	10176.6	10259.6	10250.4	10123.6	9607.4	8678.7
12.5°	8833.1	8860.8	8973.7	9151.1	9402.3	9692.7	9913.9	9957.7	9960.0	9522.2	8478.2
15°	8197.1	8185.6	8273.1	8478.2	8830.8	9194.9	9591.3	9660.4	9771.0	9439.2	8291.6
17.5°	7653.2	7713.1	7727.0	7952.8	8277.7	8750.2	9254.8	9377.0	9598.2	9367.8	8137.2
20°	7316.8	7349.0	7379.0	7505.7	7798.4	8296.2	8939.1	9107.4	9436.9	9303.2	7964.3
22.5°	7217.7	7238.4	7213.1	7252.2	7459.6	7902.1	8595.8	8819.3	9282.5	9243.3	7823.8
25°	7293.7	7314.5	7254.5	7208.5	7279.9	7581.8	8263.9	8535.8	9158.1	9231.8	7717.7
27.5°	7478.1	7517.3	7434.3	7351.3	7309.9	7408.9	8003.5	8319.2	9072.8	9287.1	7669.4
30°	7766.1	7789.2	7727.0	7625.6	7531.1	7432.0	7867.5	8169.4	9049.7	9416.2	7664.7
32.5°	8079.6	8127.9	8093.4	8026.5	7904.4	7669.4	7906.7	8174.0	9105.1	9602.8	7722.4
35°	8466.7	8522.0	8554.3	8540.4	8383.7	8091.1	8155.6	8381.4	9252.5	9946.2	7879.1
37.5°	8846.9	8895.3	9077.4	9139.6	9001.3	8724.8	8639.5	8789.3	9577.5	10395.6	8162.5
40°	9282.5	9347.0	9602.8	9840.2	9773.4	9483.0	9326.3	9450.7	10075.2	11073.1	8699.5
42.5°	9699.6	9814.8	10204.3	10623.7	10685.9	10361.0	10257.3	10298.8	10812.7	12047.9	9448.4
45°	10291.9	10400.2	10902.6	11471.8	11764.4	11510.9	11404.9	11398.0	11824.4	13419.1	10662.9
47.5°	11146.8	11243.6	11835.9	12398.2	12919.0	12953.6	12753.1	12822.2	13096.4	15023.0	12151.6
50°	12195.4	12423.5	12813.0	13398.3	14094.3	14656.6	14718.8	14626.6	14861.7	16880.4	13939.9
52.5°	13718.6	13806.2	14163.4	14645.1	15460.8	16414.9	17154.6	17027.9	16954.2	18650.3	15746.6
55°	14854.8	14972.3	15527.7	16189.1	17385.1	18643.3	20247.3	20291.1	19360.0	20351.0	17514.1
57.5°	14511.4	14691.1	15532.3	16862.0	19491.4	21791.3	22985.0	23015.0	21586.2	22003.3	19509.8
60°	12748.5	12833.7	14039.0	15813.4	19671.1	25201.9	26868.1	26626.1	23851.5	23851.5	21272.8
62.5°	9040.5	9174.2	10151.3	12762.3	17765.3	26386.4	31518.5	31018.5	26971.8	25619.0	22323.6
65°	5777.4	5648.3	6295.9	8056.5	13234.7	24637.3	35567.5	35597.5	29907.7	26326.5	21749.8
67°	4185.0	4134.3	4320.9	5507.7	8973.7	20710.5	35652.8	37231.4	31594.6	25879.5	19915.4
67.5°	3827.8	3866.9	4002.9	4968.5	8153.3	18846.1	35265.6	37134.6	31974.8	25609.8	19251.7
70°	2901.4	2834.5	2982.0	3514.4	4887.8	11888.9	30336.3	34058.1	31502.4	22934.3	15382.5
72.5°	2134.0	2127.0	2332.1	2873.7	3763.2	6332.7	22773.0	27308.2	25736.6	17463.4	9685.8
75°	1440.3	1504.8	1832.1	2401.3	3410.6	4106.6	15525.4	19811.7	17866.7	9916.2	3959.1
77.5°	820.4	825.0	1179.9	1928.9	3062.7	3304.6	9199.5	12621.7	9457.6	3297.7	1175.3
80°	354.9	389.5	585.3	1401.1	2539.6	2926.7	5275.0	6936.5	3825.5	698.3	380.2
82.5°	131.4	154.4	258.1	861.9	1852.8	2410.5	3187.1	3311.6	1297.4	246.6	237.4
85°	0.0	4.6	94.5	403.3	965.6	1076.2	2129.4	1963.4	573.8	117.5	154.4
87.5°	0.0	0.0	0.0	41.5	126.7	401.0	661.4	737.4	138.3	41.5	36.9
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°	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9	9141.9
2.5°	9072.8	8923.0	8547.4	8171.7	7892.9	7660.1	7309.9	7118.6	7017.2	6867.4	6876.6
5°	8844.6	8540.4	7879.1	7194.6	6641.5	6102.3	5457.0	5196.6	4977.7	4853.3	4770.3
7.5°	8505.9	8056.5	7077.1	6164.5	5314.2	4371.6	3664.1	3191.7	2873.7	2756.2	2643.3
10°	8134.9	7538.0	6263.6	4998.4	3818.5	2846.0	2246.9	1813.6	1659.2	1516.4	1530.2
12.5°	7791.5	7065.6	5517.0	3945.3	2675.5	1809.0	1410.3	1232.9	1182.2	1166.1	1166.1
15°	7510.3	6613.9	4715.0	2965.9	1834.4	1299.7	1129.2	1080.8	1062.4	1057.8	1057.8
17.5°	7210.8	6185.3	3991.4	2191.6	1334.3	1087.7	1030.1	997.8	990.9	986.3	986.3
20°	6943.4	5754.3	3304.6	1631.6	1078.5	979.4	942.5	921.8	914.9	910.3	912.6
22.5°	6689.9	5371.8	2659.4	1232.9	949.5	891.8	855.0	834.2	820.4	808.9	811.2
25°	6464.1	5003.1	2138.6	1009.4	855.0	804.3	767.4	737.4	707.5	693.7	691.3
27.5°	6305.1	4680.4	1666.1	864.2	769.7	714.4	668.3	631.4	592.3	571.5	566.9
30°	6173.7	4353.2	1318.2	762.8	684.4	631.4	573.8	520.8	479.3	458.6	449.4
32.5°	6088.5	4042.1	1039.3	679.8	613.0	548.5	483.9	430.9	384.9	364.1	359.5
35°	6074.6	3781.7	850.4	610.7	548.5	479.3	412.5	354.9	315.7	295.0	290.4
37.5°	6173.7	3581.2	712.1	555.4	495.5	419.4	345.7	292.7	258.1	242.0	239.7
40°	6438.8	3454.4	617.6	509.3	447.1	364.1	295.0	248.9	214.3	198.2	198.2
42.5°	6943.4	3459.0	555.4	465.5	398.7	311.1	251.2	207.4	177.4	163.6	159.0
45°	7731.6	3615.7	502.4	421.7	352.6	269.6	214.3	170.5	140.6	129.1	129.1
47.5°	8787.0	3926.9	456.3	377.9	311.1	230.4	182.1	138.3	112.9	101.4	101.4
50°	10167.4	4426.9	417.1	341.1	276.5	198.2	147.5	112.9	87.6	78.4	76.0
52.5°	11610.0	5044.5	371.0	308.8	237.4	168.2	119.8	87.6	66.8	59.9	57.6
55°	13202.4	5648.3	327.2	276.5	193.6	140.6	94.5	69.1	48.4	41.5	41.5
57.5°	14808.7	6240.6	274.2	230.4	152.1	103.7	73.7	50.7	32.3	25.3	25.3
60°	16168.3	6431.8	232.8	186.7	115.2	73.7	53.0	32.3	18.4	11.5	11.5
62.5°	16355.0	5786.6	195.9	142.9	83.0	50.7	27.7	18.4	6.9	4.6	4.6
65°	15341.0	4701.2	163.6	108.3	55.3	25.3	11.5	6.9	2.3	0.0	0.0
67°	13746.3	3811.6	133.7	80.7	39.2	16.1	6.9	2.3	0.0	0.0	0.0
67.5°	13338.4	3634.2	129.1	76.0	34.6	13.8	4.6	2.3	0.0	0.0	0.0
70°	10467.0	2721.6	92.2	46.1	20.7	9.2	0.0	0.0	0.0	0.0	0.0
72.5°	6505.6	1539.4	66.8	27.7	13.8	4.6	0.0	0.0	0.0	0.0	0.0
75°	2458.9	539.3	46.1	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	765.1	205.1	27.7	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	258.1	78.4	18.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	159.0	32.3	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.1	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	4.6	2.3	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)