

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: P456306

Luminaire Tested: **GALN-SA7C-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48860 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

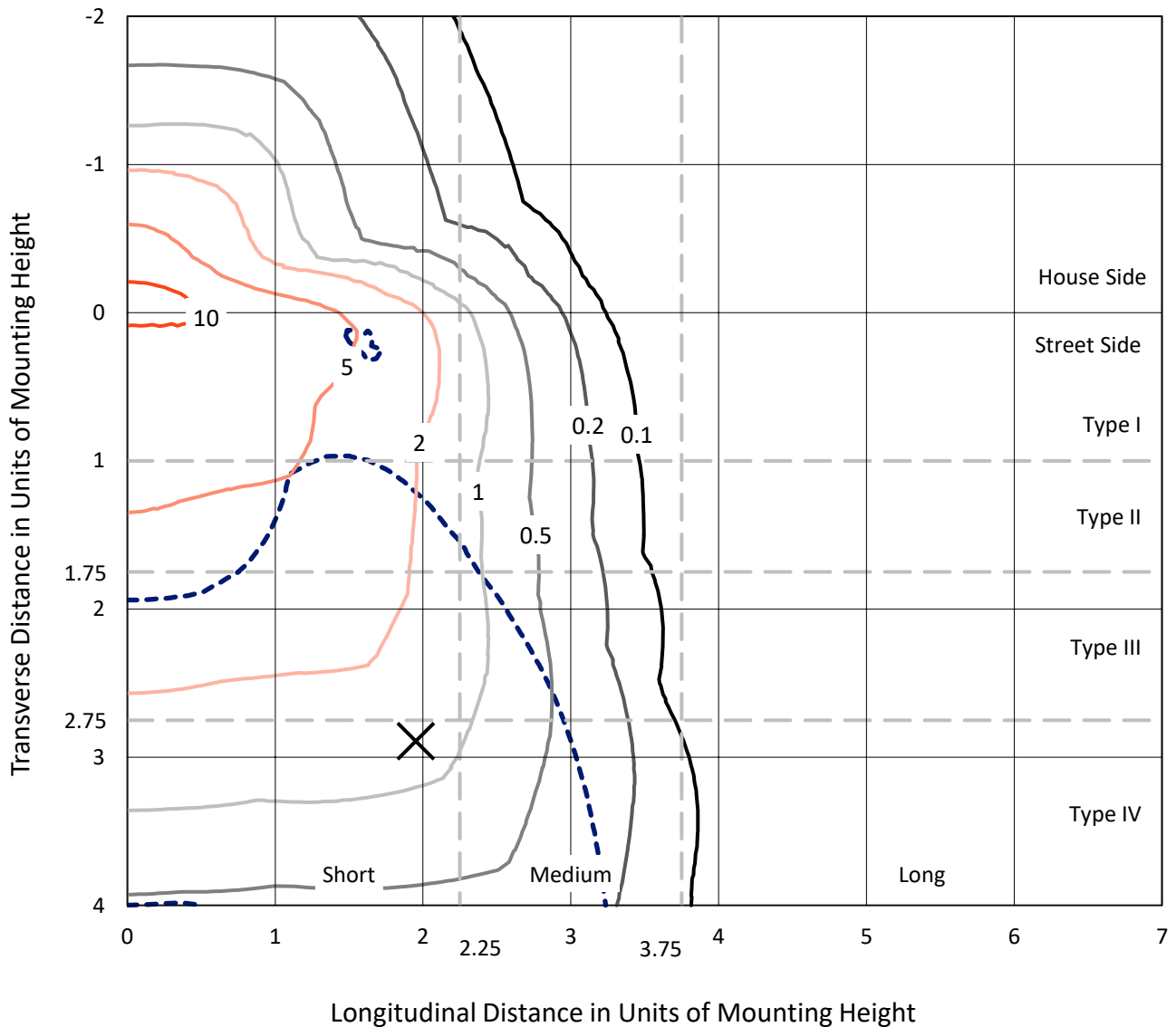
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

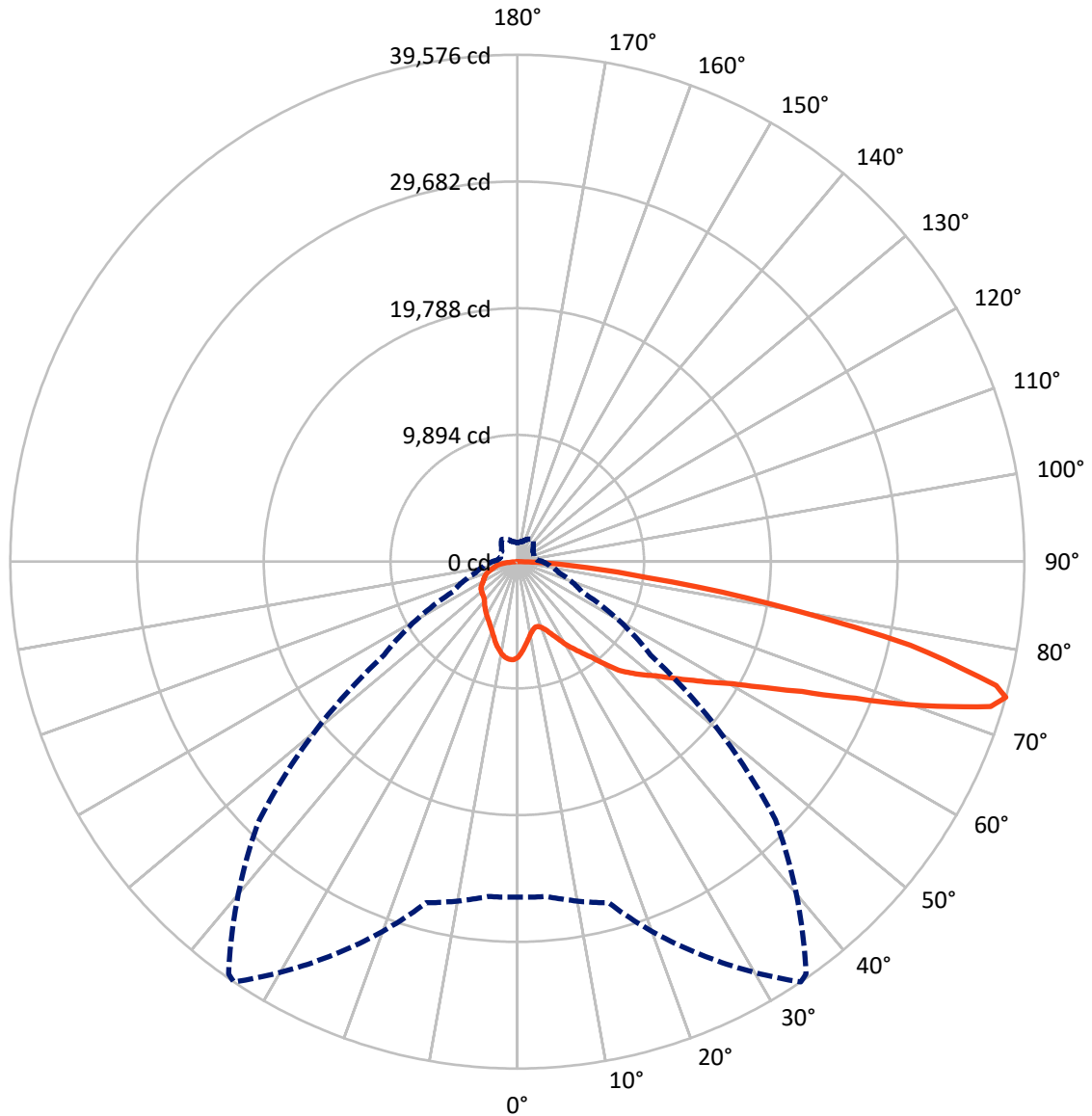
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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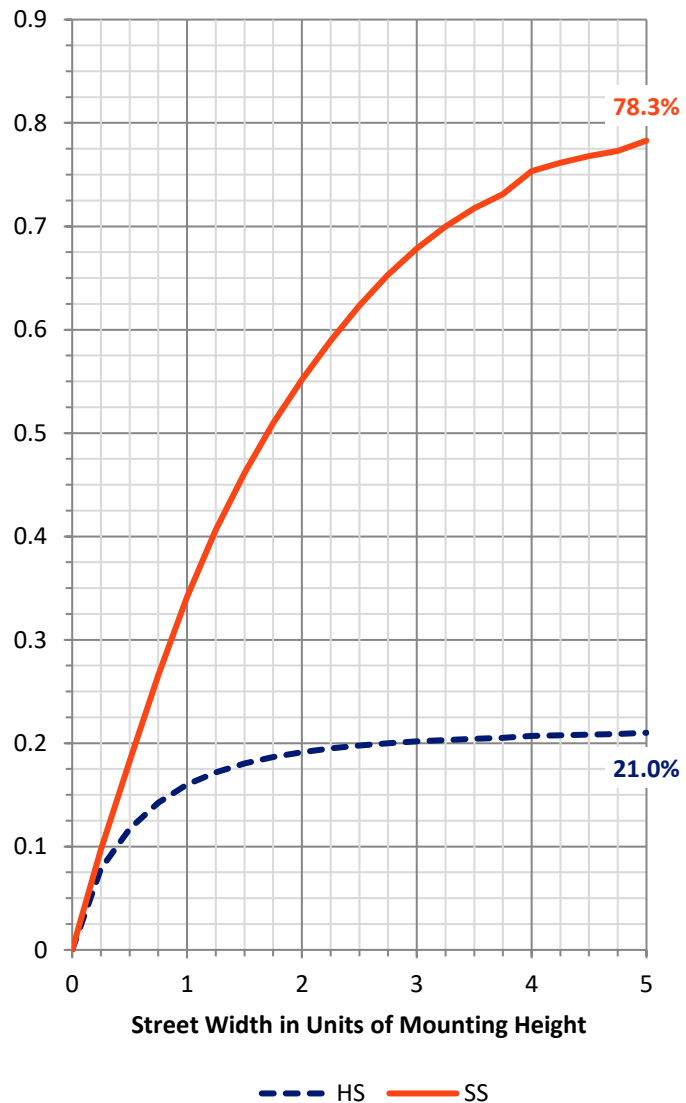
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10397.7	0.0	10397.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	38462.2	0.0	38462.2
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	48860.0	0.0	48860.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.5	1.4
10°-20°	1857.2	3.8
20°-30°	3062.1	6.3
30°-40°	4586.7	9.4
40°-50°	6667.8	13.6
50°-60°	9313.3	19.1
60°-70°	11659.7	23.9
70°-80°	9641.7	19.7
80°-90°	1393.1	2.9
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°	48860.0	100.0
0°-180°	48860.0	100.0



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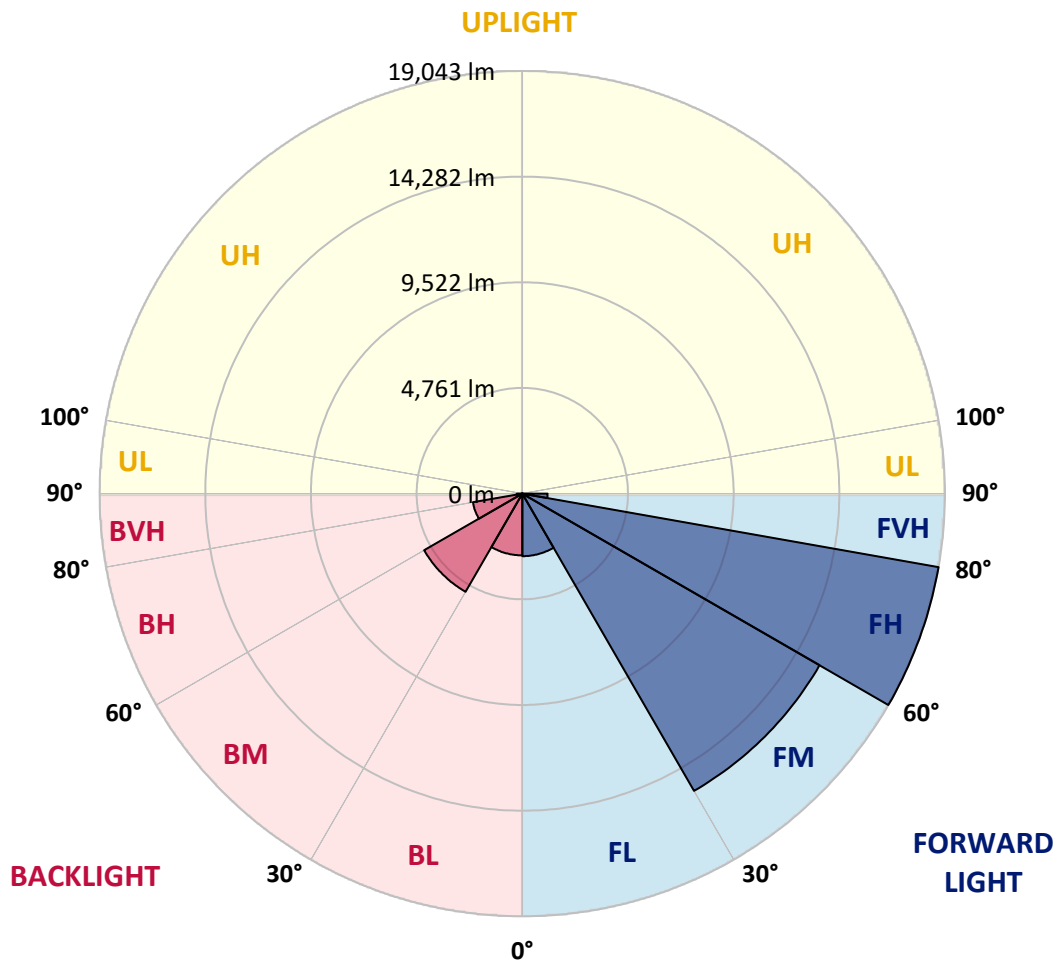
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2816.6	5.8			
FM	(30°-60°)	15461.3	31.6			
FH	(60°-80°)	19043.1	39.0			G5
FVH	(80°-90°)	1141.3	2.3			G5
BL	(0°-30°)	2781.2	5.7	B4/5000		
BM	(30°-60°)	5106.4	10.5	B4/8500		
BH	(60°-80°)	2258.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	251.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0
2.5°	6894.2	6929.4	6948.4	7016.0	7032.3	7053.9	7110.8	7186.6	7284.0	7370.6	7446.4
5°	6320.4	6374.5	6407.0	6466.6	6583.0	6593.8	6745.4	6918.6	7116.2	7300.3	7451.8
7.5°	5776.3	5835.9	5862.9	5971.2	6125.5	6149.9	6371.8	6645.2	6975.4	7254.2	7487.0
10°	5367.6	5397.4	5456.9	5538.1	5722.2	5738.4	6028.1	6393.5	6821.1	7232.6	7546.6
12.5°	5145.6	5161.9	5175.4	5262.0	5443.4	5467.7	5770.9	6185.1	6699.3	7248.8	7644.0
15°	5178.1	5183.5	5124.0	5140.2	5286.4	5321.6	5622.0	6047.0	6623.6	7289.4	7790.2
17.5°	5451.5	5432.6	5286.4	5210.6	5313.5	5329.7	5592.3	5992.9	6588.4	7365.2	7941.8
20°	5881.9	5854.8	5603.1	5435.3	5494.8	5508.3	5689.7	6033.5	6623.6	7489.7	8177.3
22.5°	6417.8	6407.0	6025.3	5822.3	5819.6	5819.6	5914.4	6179.6	6729.1	7660.3	8423.6
25°	7167.6	7110.8	6612.7	6350.2	6277.1	6271.7	6260.8	6420.5	6864.5	7841.6	8715.9
27.5°	7936.4	7838.9	7395.0	6991.7	6834.7	6815.7	6745.4	6761.6	7037.7	8047.3	9048.9
30°	8626.6	8564.3	8147.5	7700.9	7514.1	7470.8	7275.9	7186.6	7327.3	8418.2	9579.4
32.5°	9154.4	9116.5	8791.7	8385.7	8109.6	8101.5	7817.3	7744.2	7779.4	8867.5	10185.7
35°	9582.1	9595.6	9430.5	9078.6	8761.9	8715.9	8526.4	8434.4	8331.5	9517.1	10949.0
37.5°	10166.8	10196.5	10185.7	9882.5	9495.5	9506.3	9463.0	9311.4	9038.0	10242.6	11796.3
40°	10811.0	10832.6	10829.9	10713.5	10510.5	10521.4	10505.1	10331.9	9923.1	11165.6	12738.2
42.5°	11701.5	11598.7	11330.7	11447.1	11566.2	11617.6	11728.6	11563.5	11003.2	12150.8	13623.4
45°	12697.6	12502.7	11896.4	11950.5	12391.8	12489.2	13100.9	12873.6	12175.2	13282.3	14665.5
47.5°	13325.6	13133.4	12621.8	12611.0	13195.7	13290.4	14373.1	14289.2	13241.7	14503.1	15937.7
50°	13885.9	13858.8	13282.3	13420.3	13991.5	14132.2	15759.0	15680.5	14305.5	15943.1	17323.6
52.5°	14716.9	14497.6	14037.5	14321.7	15076.9	15261.0	17134.1	16904.0	15282.6	17215.3	18668.8
55°	15090.4	15039.0	15011.9	15258.3	16295.0	16427.6	18471.2	17943.4	16116.3	18292.6	19692.0
57.5°	16089.3	15994.5	16262.5	16430.3	17729.6	17932.6	19868.0	19028.8	16847.2	19147.9	20190.1
60°	17383.1	17331.7	17578.0	17881.2	19332.0	19640.6	21459.6	19954.6	17434.5	19578.3	19916.7
62.5°	19315.8	19310.3	19264.3	19914.0	21603.0	21887.2	23286.6	20855.9	17526.6	19256.2	18503.7
65°	22087.5	21990.1	21589.5	22298.7	24428.9	24761.9	25189.5	21359.4	16971.7	17602.4	15580.4
67.5°	24986.5	24981.1	24656.3	25576.6	28486.4	28830.2	27568.8	21248.4	15431.5	14259.5	11065.4
70°	27390.2	27273.8	27687.9	30140.3	33670.0	34067.9	29650.3	19941.0	12291.6	9417.0	6574.8
72.5°	27966.7	27972.1	28832.9	33659.1	38647.8	38710.0	30400.1	16162.3	8226.0	5194.4	3288.8
74°	26191.0	26237.1	27571.5	33835.1	39576.2	39294.7	28483.7	12703.0	5562.5	3391.6	2371.2
75°	23906.5	23616.9	25546.8	32663.0	38612.6	38309.4	26239.8	10193.8	4244.3	2709.5	2076.1
77.5°	12781.5	13076.6	16054.1	24374.8	31369.2	31020.0	17791.8	4888.5	2292.7	1886.6	1494.2
80°	4550.1	5018.4	7053.9	12754.5	20111.6	20219.8	8491.2	2241.2	1613.3	1391.3	1055.7
82.5°	1856.9	1908.3	3028.9	5659.9	10212.8	10310.2	3467.4	1331.7	1153.1	958.2	630.7
85°	725.4	747.1	1339.9	2544.4	4358.0	4642.2	1199.1	703.8	709.2	549.5	322.1
87.5°	243.6	276.1	549.5	847.2	1480.6	1450.8	349.2	208.4	254.4	238.2	100.2
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°	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0	7460.0
2.5°	7484.3	7535.7	7570.9	7608.8	7644.0	7654.8	7646.7	7671.1	7673.8	7676.5	7679.2
5°	7527.6	7598.0	7665.7	7703.6	7719.8	7706.3	7660.3	7635.9	7614.2	7598.0	7603.4
7.5°	7587.2	7687.3	7749.6	7765.8	7722.5	7660.3	7546.6	7457.2	7400.4	7362.5	7359.8
10°	7679.2	7776.7	7828.1	7782.1	7663.0	7511.4	7332.7	7164.9	7037.7	6999.8	6997.1
12.5°	7795.6	7906.6	7903.9	7768.5	7560.1	7289.4	6999.8	6804.9	6631.7	6545.1	6580.2
15°	7947.2	8031.1	7952.6	7709.0	7378.8	7007.9	6650.6	6385.4	6190.5	6098.4	6103.8
17.5°	8123.1	8196.2	7987.8	7603.4	7124.3	6647.9	6233.8	5982.0	5827.8	5760.1	5754.7
20°	8342.4	8364.0	7987.8	7419.4	6796.8	6228.4	5833.2	5657.2	5570.6	5535.4	5546.2
22.5°	8577.9	8534.6	7944.5	7159.5	6366.4	5789.9	5524.6	5446.1	5402.8	5397.4	5402.8
25°	8843.1	8721.3	7855.1	6807.6	5917.1	5410.9	5256.6	5270.2	5278.3	5278.3	5297.2
27.5°	9167.9	8924.3	7706.3	6363.7	5392.0	5059.0	5015.7	5110.4	5153.8	5161.9	5175.4
30°	9595.6	9146.3	7460.0	5808.8	4945.3	4742.3	4818.1	4945.3	4994.1	5023.8	5018.4
32.5°	10104.5	9389.9	7127.0	5253.9	4585.3	4520.4	4612.4	4742.3	4796.5	4812.7	4791.0
35°	10702.7	9666.0	6688.5	4734.2	4271.3	4309.2	4417.5	4458.1	4506.8	4506.8	4517.7
37.5°	11346.9	9888.0	6152.6	4257.8	4027.7	4165.8	4244.3	4206.4	4184.7	4157.7	4171.2
40°	12002.0	10053.1	5456.9	3786.8	3784.1	4016.9	4038.6	3930.3	3843.7	3816.6	3803.1
42.5°	12573.1	10155.9	4828.9	3421.4	3554.0	3870.7	3887.0	3713.7	3575.7	3494.5	3467.4
45°	13247.1	10275.0	4214.5	3118.2	3340.2	3754.3	3794.9	3562.2	3359.1	3188.6	3145.3
47.5°	14170.1	10545.7	3730.0	2882.7	3185.9	3681.3	3738.1	3437.6	3169.7	2947.7	2912.5
50°	15212.2	10916.5	3353.7	2723.0	3066.8	3616.3	3686.7	3310.4	2993.7	2747.4	2720.3
52.5°	16167.7	11116.8	3028.9	2579.6	2950.4	3497.2	3619.0	3218.4	2820.5	2547.1	2522.7
55°	16690.2	10792.0	2709.5	2438.8	2790.7	3342.9	3524.3	3091.2	2652.7	2441.5	2406.3
57.5°	16760.5	10120.7	2419.9	2287.3	2622.9	3153.4	3348.3	2936.9	2544.4	2368.5	2338.7
60°	16216.5	9119.2	2195.2	2162.7	2452.4	2939.6	3150.7	2801.5	2433.4	2287.3	2257.5
62.5°	14863.1	8031.1	2038.2	2049.1	2279.1	2714.9	3004.6	2671.6	2327.9	2197.9	2170.9
65°	12535.2	6629.0	1886.6	1932.7	2124.8	2539.0	2871.9	2563.3	2222.3	2130.3	2105.9
67.5°	8707.8	4785.6	1762.1	1810.9	1978.7	2360.3	2717.6	2447.0	2103.2	2054.5	2016.6
70°	4820.8	2945.0	1616.0	1672.8	1827.1	2160.0	2544.4	2271.0	1930.0	1908.3	1854.2
72.5°	2533.6	1875.8	1450.8	1513.1	1621.4	1902.9	2279.1	2078.8	1759.4	1667.4	1597.0
74°	1978.7	1537.5	1339.9	1404.8	1477.9	1751.3	2122.1	1940.8	1637.6	1529.3	1475.2
75°	1724.2	1369.6	1245.1	1329.0	1394.0	1648.4	2000.3	1843.3	1569.9	1467.1	1418.4
77.5°	1218.1	1025.9	1017.8	1117.9	1153.1	1445.4	1802.7	1678.2	1399.4	1291.1	1245.1
80°	855.4	768.7	806.6	868.9	917.6	1277.6	1672.8	1450.8	1147.7	1020.5	1004.2
82.5°	557.6	503.5	576.5	633.4	649.6	942.0	1350.7	1101.7	836.4	679.4	630.7
85°	257.1	251.7	330.2	322.1	319.4	460.2	801.2	644.2	481.8	360.0	338.4
87.5°	65.0	62.3	81.2	67.7	81.2	70.4	73.1	18.9	2.7	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)