

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: P455447

Luminaire Tested: **GALN-SA6C-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455447  
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-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 25352 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

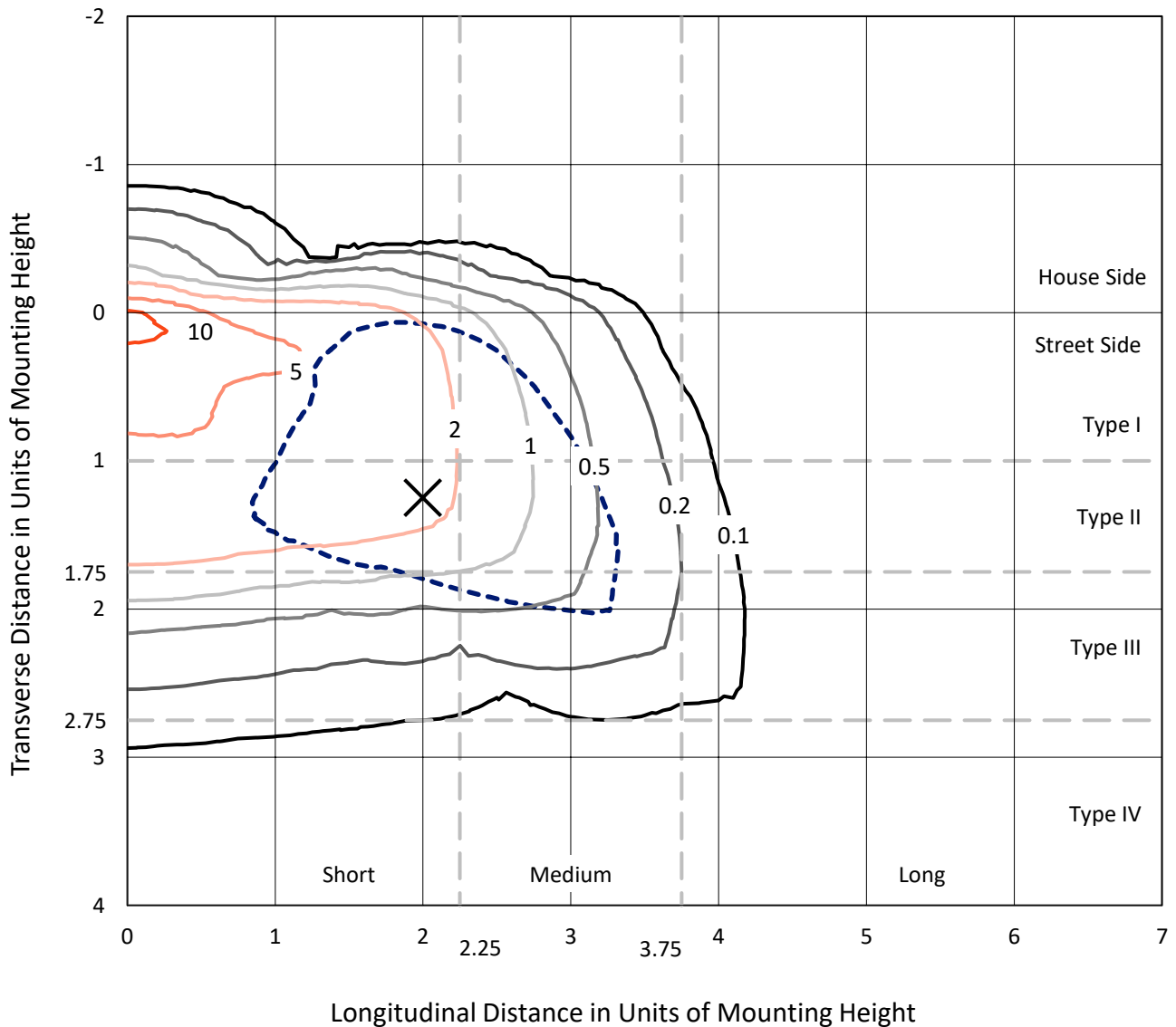
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

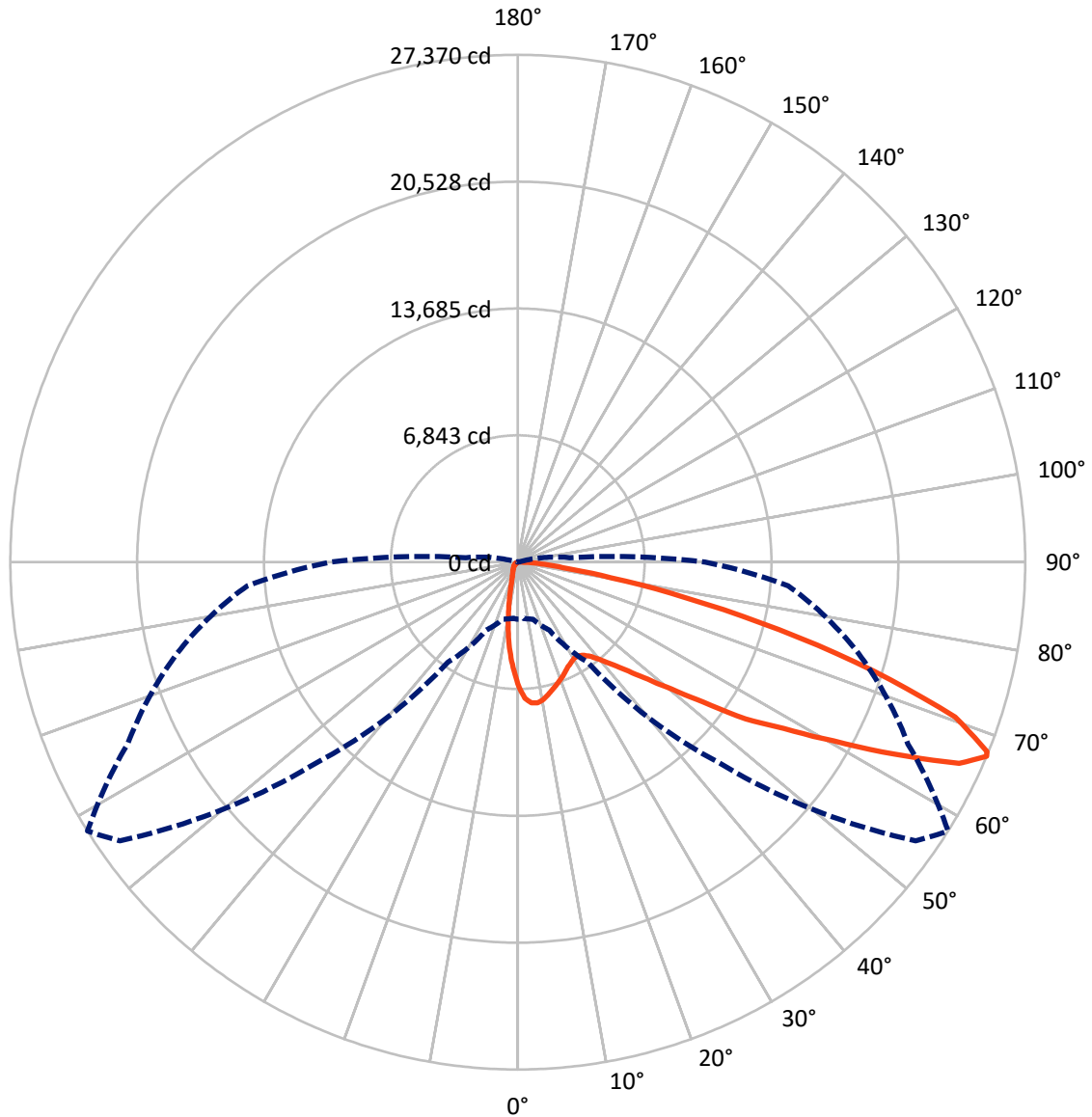
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type 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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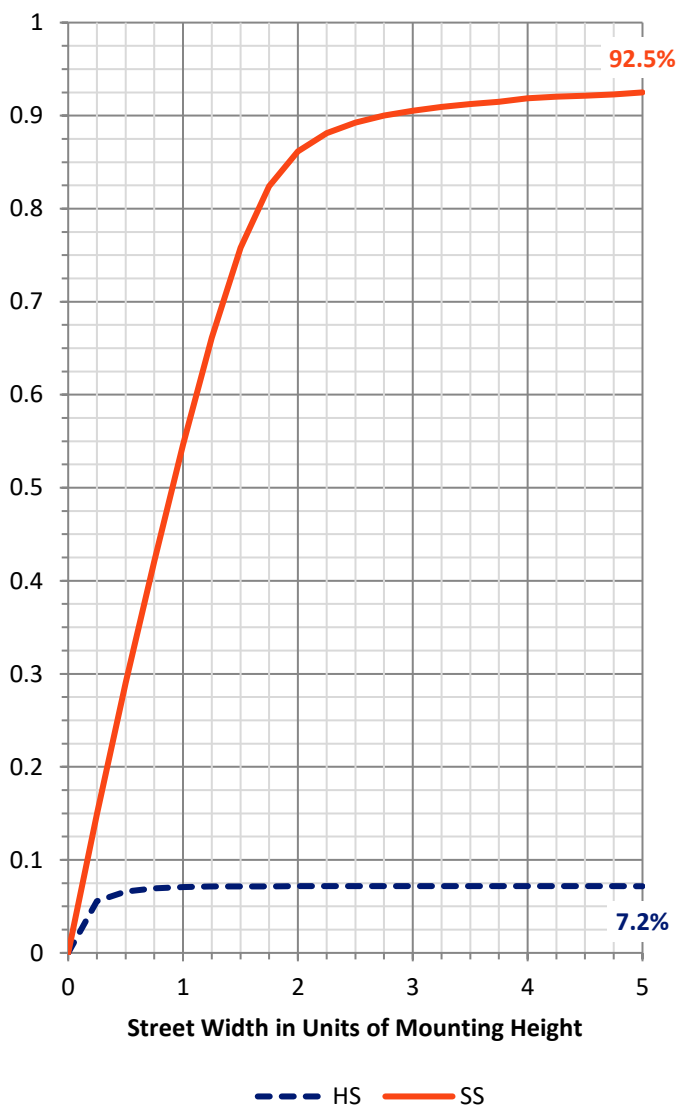
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1829.6	0.0	1829.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23522.5	0.0	23522.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25352.0	0.0	25352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.4	2.2
10°-20°	1177.8	4.6
20°-30°	1596.1	6.3
30°-40°	2213.6	8.7
40°-50°	3530.5	13.9
50°-60°	6102.8	24.1
60°-70°	6971.3	27.5
70°-80°	2906.4	11.5
80°-90°	308.2	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°	25352.0	100.0
0°-180°	25352.0	100.0

**Coefficient of Utilization**



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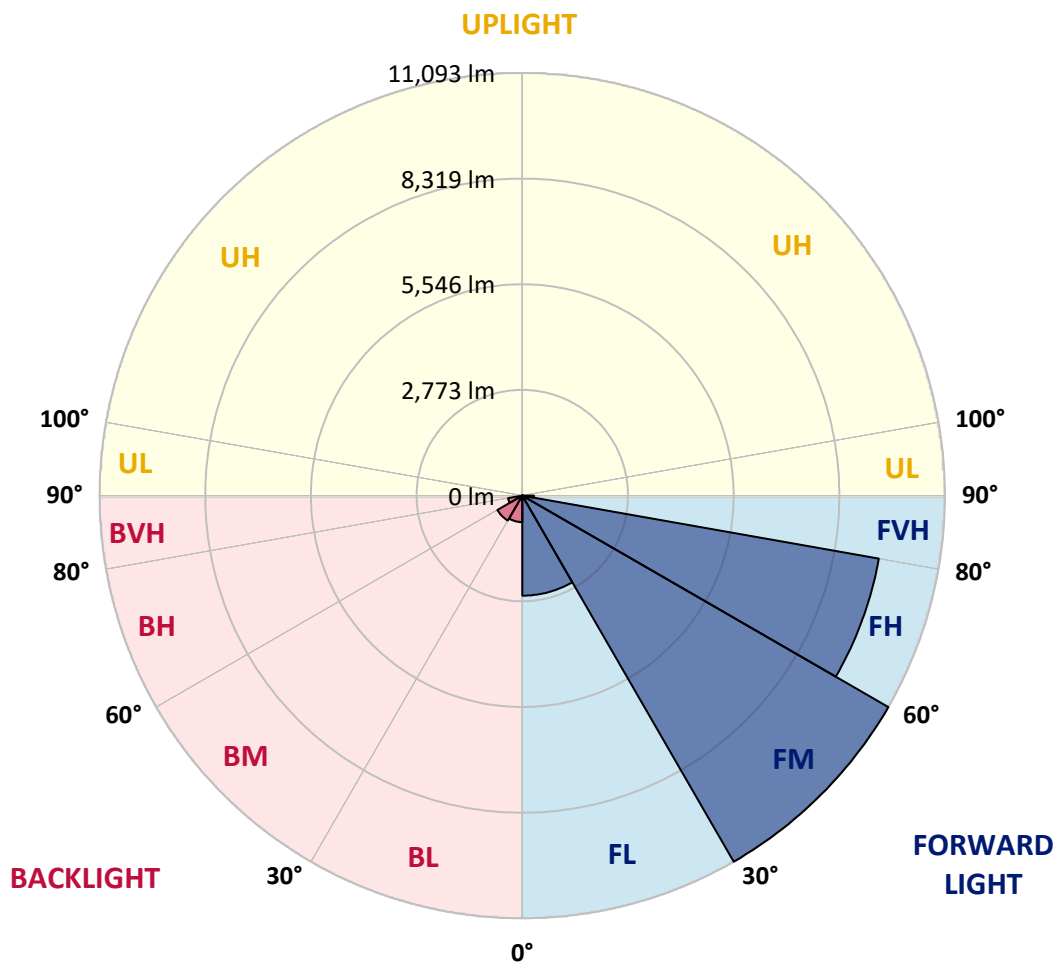
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.5	10.4			
FM (30°-60°)	11092.6	43.8			
FH (60°-80°)	9499.4	37.5			G4/12000
FVH (80°-90°)	305.9	1.2			G3/500
BL (0°-30°)	694.7	2.7	B2/1000		
BM (30°-60°)	754.4	3.0	B1/1000		
BH (60°-80°)	378.2	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	7799.7	7811.6	7767.5	7732.0	7640.5	7542.2	7411.8	7342.3	7223.7	7018.7	6791.7
5°	7982.7	7998.0	7991.2	7982.7	7947.1	7852.3	7686.2	7625.2	7450.7	7117.0	6707.0
7.5°	7576.1	7632.0	7638.8	7704.9	7767.5	7776.0	7713.3	7667.6	7506.7	7115.3	6556.3
10°	7037.4	7074.7	7128.9	7205.1	7355.9	7481.2	7542.2	7535.5	7442.3	7062.8	6380.1
12.5°	6493.6	6513.9	6596.9	6727.4	6912.0	7125.5	7288.1	7320.3	7322.0	7000.1	6232.7
15°	6026.0	6017.5	6081.9	6232.7	6491.9	6759.5	7050.9	7101.8	7183.1	6939.1	6095.5
17.5°	5626.2	5670.2	5680.4	5846.4	6085.3	6432.6	6803.6	6893.4	7056.0	6886.6	5981.9
20°	5378.8	5402.6	5424.6	5517.8	5732.9	6098.8	6571.5	6695.2	6937.4	6839.2	5854.9
22.5°	5306.0	5321.2	5302.6	5331.4	5483.9	5809.1	6319.1	6483.4	6823.9	6795.1	5751.5
25°	5361.9	5377.1	5333.1	5299.2	5351.7	5573.7	6075.1	6275.0	6732.4	6786.7	5673.6
27.5°	5497.4	5526.2	5465.2	5404.2	5373.8	5446.6	5883.7	6115.8	6669.8	6827.3	5638.0
30°	5709.2	5726.1	5680.4	5605.9	5536.4	5463.5	5783.7	6005.7	6652.8	6922.2	5634.7
32.5°	5939.6	5975.2	5949.8	5900.6	5810.8	5638.0	5812.5	6009.1	6693.5	7059.4	5677.0
35°	6224.2	6264.9	6288.6	6278.4	6163.2	5948.1	5995.5	6161.5	6801.9	7311.8	5792.2
37.5°	6503.7	6539.3	6673.1	6718.9	6617.2	6413.9	6351.3	6461.4	7040.8	7642.2	6000.6
40°	6823.9	6871.4	7059.4	7233.9	7184.8	6971.3	6856.1	6947.6	7406.7	8140.3	6395.3
42.5°	7130.6	7215.3	7501.6	7809.9	7855.6	7616.8	7540.5	7571.0	7948.8	8856.9	6945.9
45°	7565.9	7645.6	8014.9	8433.3	8648.5	8462.1	8384.2	8379.1	8692.5	9864.9	7838.7
47.5°	8194.5	8265.6	8701.0	9114.4	9497.2	9522.7	9375.3	9426.1	9627.7	11044.0	8933.1
50°	8965.3	9133.0	9419.3	9849.6	10361.3	10774.6	10820.4	10752.6	10925.4	12409.4	10247.7
52.5°	10085.1	10149.5	10412.1	10766.1	11365.9	12067.2	12611.0	12517.9	12463.7	13710.5	11575.9
55°	10920.3	11006.7	11415.0	11901.2	12780.5	13705.4	14884.6	14916.7	14232.3	14960.8	12875.3
57.5°	10667.9	10800.0	11418.4	12395.9	14328.9	16019.6	16897.2	16919.2	15868.8	16175.5	14342.4
60°	9371.9	9434.6	10320.6	11625.1	14461.0	18526.9	19751.8	19573.9	17534.2	17534.2	15638.4
62.5°	6646.0	6744.3	7462.6	9382.0	13060.0	19397.7	23170.5	22802.9	19828.0	18833.6	16411.0
65°	4247.2	4152.3	4628.3	5922.7	9729.3	18111.9	26147.1	26169.1	21986.3	19353.7	15989.1
67°	3076.5	3039.3	3176.5	4049.0	6596.9	15225.1	26209.8	27370.2	23226.4	19025.0	14640.6
67.5°	2813.9	2842.7	2942.7	3652.5	5993.8	13854.5	25925.2	27299.1	23505.9	18826.8	14152.7
70°	2132.9	2083.8	2192.2	2583.5	3593.2	8740.0	22301.4	25037.4	23158.6	16859.9	11308.3
72.5°	1568.8	1563.7	1714.5	2112.6	2766.5	4655.4	16741.3	20075.3	18920.0	12838.1	7120.4
75°	1058.8	1106.3	1346.8	1765.3	2507.3	3018.9	11413.3	14564.4	13134.5	7289.8	2910.5
77.5°	603.1	606.5	867.4	1418.0	2251.5	2429.4	6762.9	9278.7	6952.7	2424.3	864.0
80°	260.9	286.3	430.3	1030.0	1866.9	2151.5	3877.8	5099.3	2812.2	513.3	279.5
82.5°	96.6	113.5	189.7	633.6	1362.1	1772.1	2343.0	2434.5	953.8	181.3	174.5
85°	0.0	3.4	69.5	296.5	709.8	791.2	1565.4	1443.4	421.8	86.4	113.5
87.5°	0.0	0.0	0.0	30.5	93.2	294.8	486.2	542.1	101.6	30.5	27.1
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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	6669.8	6559.6	6283.5	6007.4	5802.4	5631.3	5373.8	5233.1	5158.6	5048.5	5055.3
5°	6502.0	6278.4	5792.2	5289.0	4882.5	4486.0	4011.7	3820.2	3659.3	3567.8	3506.8
7.5°	6253.0	5922.7	5202.6	4531.8	3906.6	3213.7	2693.7	2346.4	2112.6	2026.2	1943.2
10°	5980.3	5541.5	4604.6	3674.6	2807.2	2092.2	1651.8	1333.3	1219.8	1114.7	1124.9
12.5°	5727.8	5194.2	4055.7	2900.3	1966.9	1329.9	1036.8	906.4	869.1	857.2	857.2
15°	5521.1	4862.1	3466.2	2180.3	1348.5	955.5	830.1	794.5	781.0	777.6	777.6
17.5°	5300.9	4547.0	2934.2	1611.1	980.9	799.6	757.3	733.6	728.5	725.1	725.1
20°	5104.4	4230.2	2429.4	1199.4	792.8	720.0	692.9	677.6	672.6	669.2	670.9
22.5°	4918.0	3949.0	1955.0	906.4	698.0	655.6	628.5	613.3	603.1	594.6	596.3
25°	4752.0	3677.9	1572.1	742.0	628.5	591.2	564.1	542.1	520.1	509.9	508.2
27.5°	4635.1	3440.8	1224.9	635.3	565.8	525.2	491.3	464.2	435.4	420.1	416.8
30°	4538.6	3200.2	969.0	560.8	503.2	464.2	421.8	382.9	352.4	337.1	330.4
32.5°	4475.9	2971.5	764.0	499.8	450.6	403.2	355.8	316.8	282.9	267.7	264.3
35°	4465.7	2780.1	625.1	448.9	403.2	352.4	303.2	260.9	232.1	216.8	213.5
37.5°	4538.6	2632.7	523.5	408.3	364.2	308.3	254.1	215.2	189.7	177.9	176.2
40°	4733.4	2539.5	454.0	374.4	328.7	267.7	216.8	183.0	157.6	145.7	145.7
42.5°	5104.4	2542.9	408.3	342.2	293.1	228.7	184.7	152.5	130.4	120.3	116.9
45°	5683.8	2658.1	369.3	310.0	259.2	198.2	157.6	125.4	103.3	94.9	94.9
47.5°	6459.7	2886.8	335.4	277.8	228.7	169.4	133.8	101.6	83.0	74.5	74.5
50°	7474.5	3254.4	306.6	250.7	203.3	145.7	108.4	83.0	64.4	57.6	55.9
52.5°	8535.0	3708.4	272.8	227.0	174.5	123.7	88.1	64.4	49.1	44.0	42.4
55°	9705.6	4152.3	240.6	203.3	142.3	103.3	69.5	50.8	35.6	30.5	30.5
57.5°	10886.4	4587.7	201.6	169.4	111.8	76.2	54.2	37.3	23.7	18.6	18.6
60°	11886.0	4728.3	171.1	137.2	84.7	54.2	39.0	23.7	13.6	8.5	8.5
62.5°	12023.2	4253.9	144.0	105.0	61.0	37.3	20.3	13.6	5.1	3.4	3.4
65°	11277.8	3456.0	120.3	79.6	40.7	18.6	8.5	5.1	1.7	0.0	0.0
67°	10105.4	2802.1	98.3	59.3	28.8	11.9	5.1	1.7	0.0	0.0	0.0
67.5°	9805.6	2671.6	94.9	55.9	25.4	10.2	3.4	1.7	0.0	0.0	0.0
70°	7694.7	2000.8	67.8	33.9	15.2	6.8	0.0	0.0	0.0	0.0	0.0
72.5°	4782.5	1131.7	49.1	20.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0
75°	1807.6	396.4	33.9	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	562.4	150.8	20.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	189.7	57.6	13.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	116.9	23.7	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.8	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	3.4	1.7	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)