

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: P455563

Luminaire Tested: **GALN-SA6D-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455563  
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-SA6D-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 34559 lumens  
Efficiency: N/A  
Efficacy: 93.9 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): 368  
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

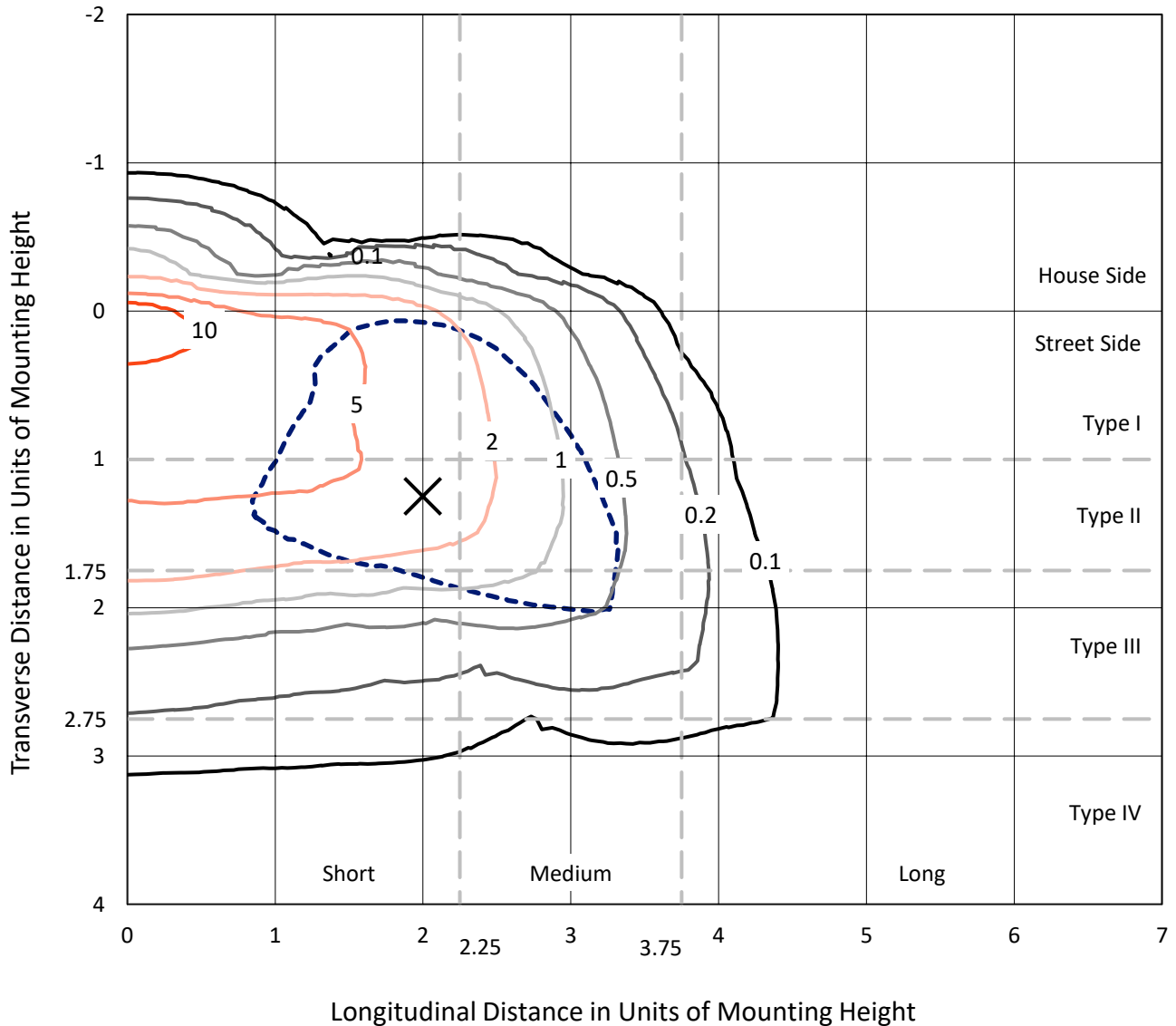




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### Iso-Footcandle Lines of Horizontal Illumination

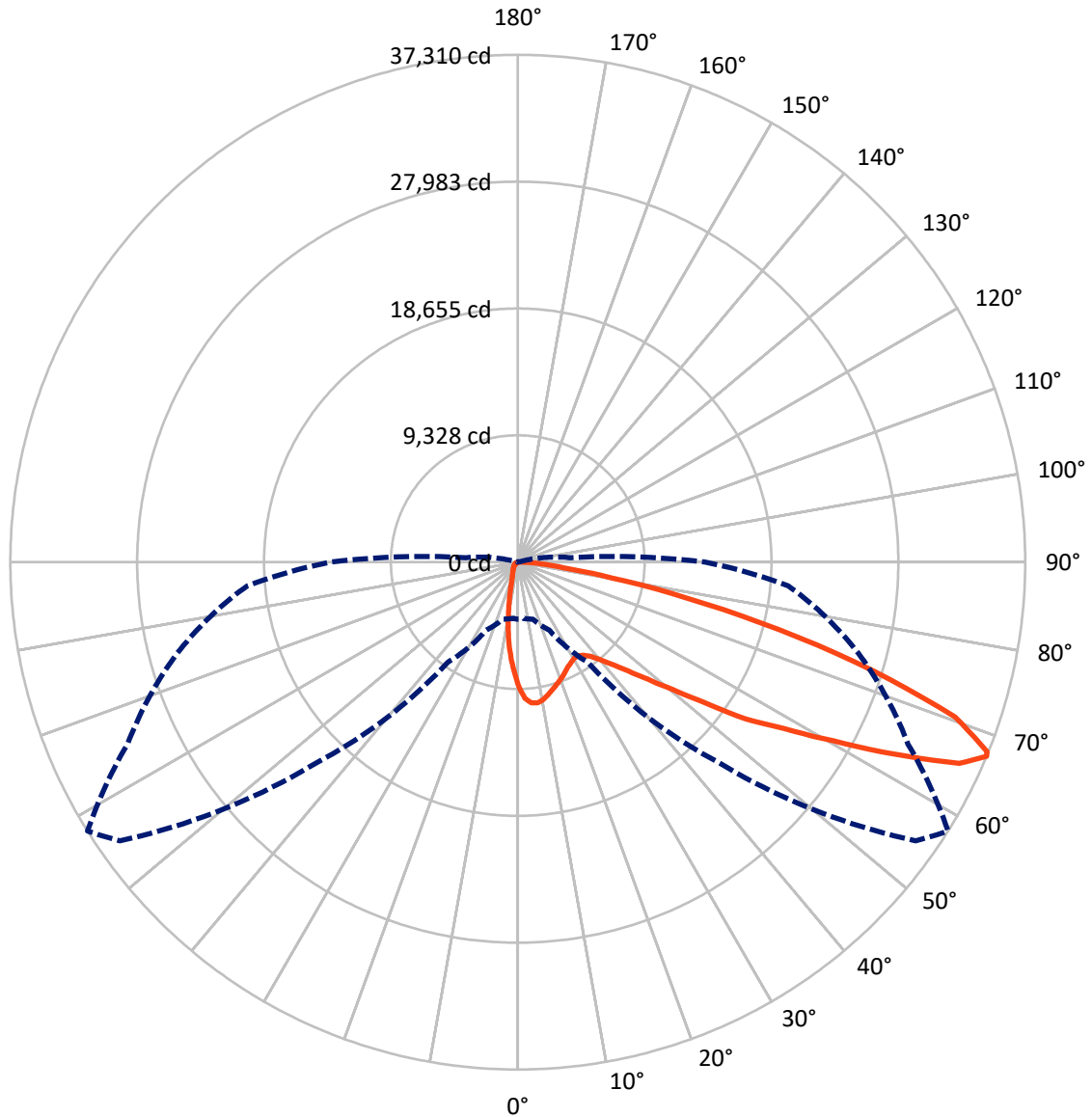
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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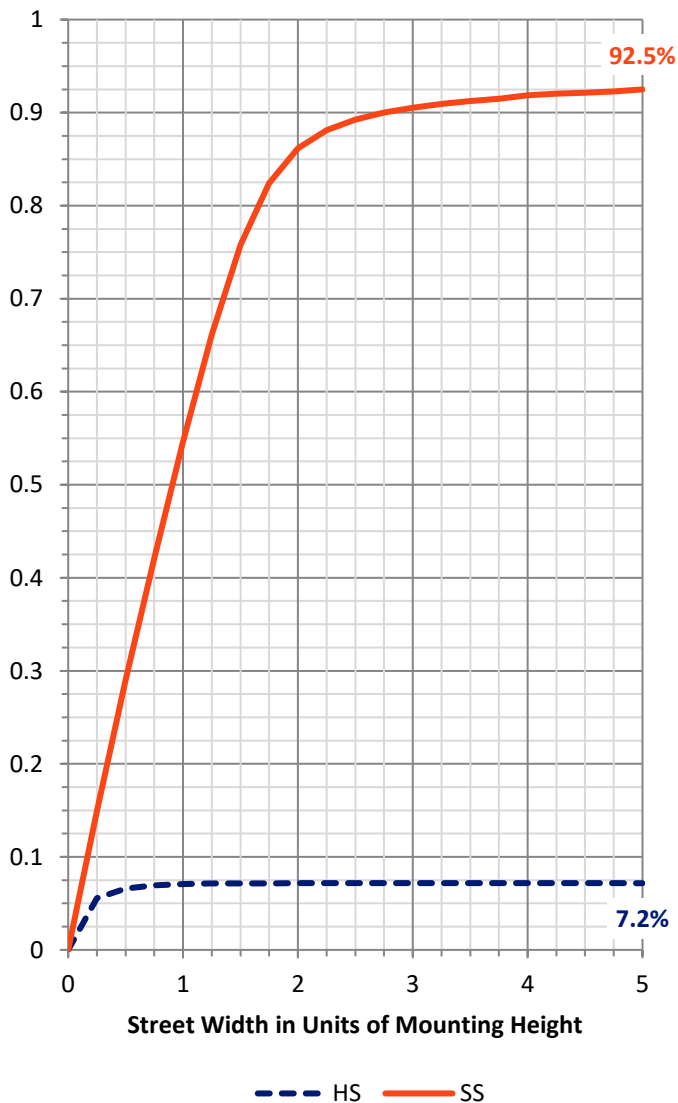
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2494.0	0.0	2494.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32065.0	0.0	32065.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34559.0	0.0	34559.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.4	2.2
10°-20°	1605.6	4.6
20°-30°	2175.7	6.3
30°-40°	3017.6	8.7
40°-50°	4812.7	13.9
50°-60°	8319.1	24.1
60°-70°	9503.0	27.5
70°-80°	3961.9	11.5
80°-90°	420.1	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°	34559.0	100.0
0°-180°	34559.0	100.0



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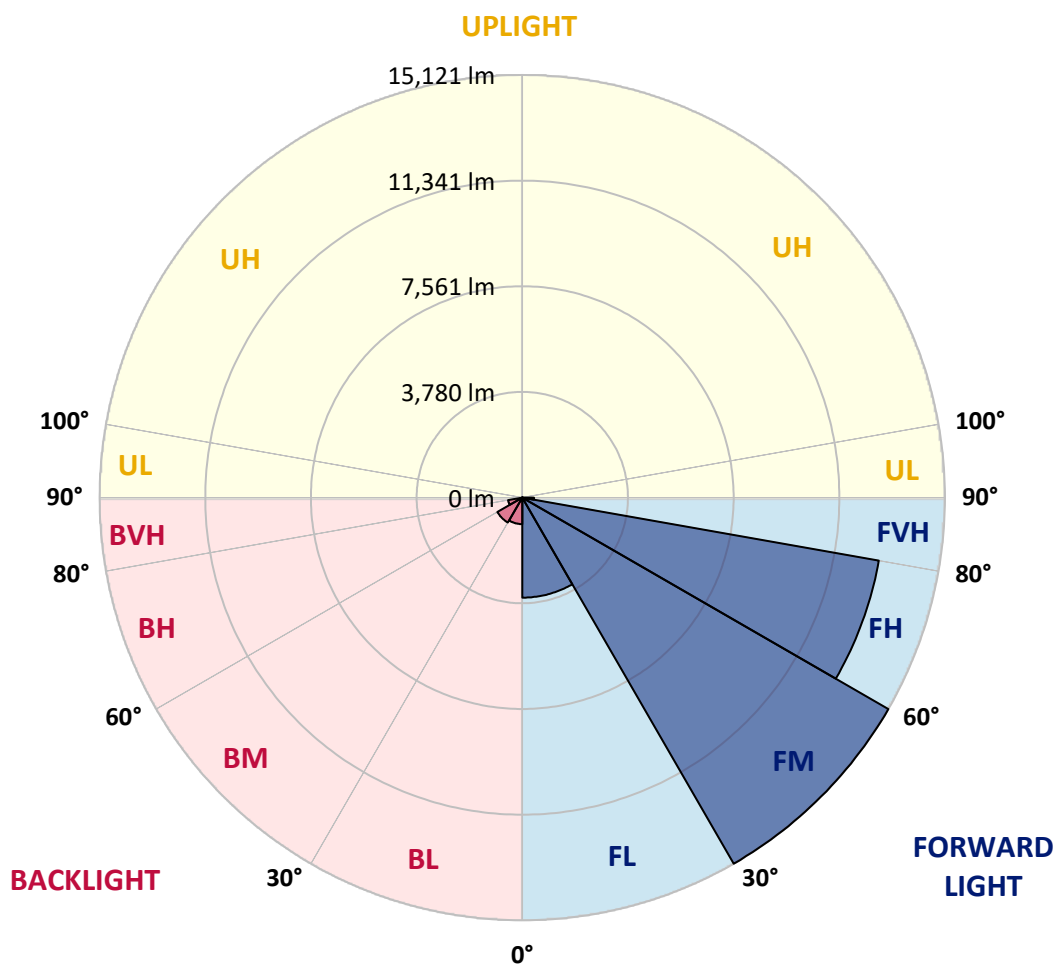
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3577.7	10.4			
FM (30°-60°)	15121.0	43.8			
FH (60°-80°)	12949.3	37.5			G5
FVH (80°-90°)	417.0	1.2			G3/500
BL (0°-30°)	947.0	2.7	B2/1000		
BM (30°-60°)	1028.3	3.0	B2/2500		
BH (60°-80°)	515.6	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°	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3
2.5°	10632.3	10648.5	10588.5	10540.0	10415.3	10281.3	10103.5	10008.8	9847.2	9567.7	9258.3
5°	10881.8	10902.5	10893.3	10881.8	10833.3	10703.9	10477.6	10394.5	10156.6	9701.7	9142.8
7.5°	10327.5	10403.7	10413.0	10503.0	10588.5	10600.0	10514.6	10452.2	10232.8	9699.4	8937.3
10°	9593.1	9643.9	9717.8	9821.8	10027.3	10198.2	10281.3	10272.1	10145.1	9627.8	8697.1
12.5°	8851.8	8879.5	8992.7	9170.5	9422.2	9713.2	9934.9	9978.8	9981.1	9542.3	8496.2
15°	8214.4	8202.9	8290.6	8496.2	8849.5	9214.4	9611.6	9680.9	9791.7	9459.2	8309.1
17.5°	7669.4	7729.5	7743.3	7969.6	8295.3	8768.7	9274.4	9396.8	9618.5	9387.6	8154.4
20°	7332.3	7364.6	7394.6	7521.6	7814.9	8313.7	8958.0	9126.6	9456.9	9322.9	7981.2
22.5°	7232.9	7253.7	7228.3	7267.6	7475.4	7918.8	8614.0	8838.0	9302.1	9262.9	7840.3
25°	7309.2	7329.9	7269.9	7223.7	7295.3	7597.8	8281.4	8553.9	9177.4	9251.3	7734.1
27.5°	7493.9	7533.2	7450.0	7366.9	7325.3	7424.6	8020.4	8336.8	9092.0	9306.8	7685.6
30°	7782.6	7805.7	7743.3	7641.7	7547.0	7447.7	7884.2	8186.7	9068.9	9436.1	7681.0
32.5°	8096.7	8145.2	8110.5	8043.5	7921.1	7685.6	7923.5	8191.3	9124.3	9623.1	7738.7
35°	8484.6	8540.1	8572.4	8558.5	8401.5	8108.2	8172.9	8399.2	9272.1	9967.2	7895.7
37.5°	8865.7	8914.2	9096.6	9159.0	9020.4	8743.3	8657.8	8807.9	9597.7	10417.6	8179.8
40°	9302.1	9366.8	9623.1	9861.0	9794.0	9503.1	9346.0	9470.7	10096.6	11096.5	8717.9
42.5°	9720.1	9835.6	10225.9	10646.2	10708.6	10382.9	10279.0	10320.6	10835.6	12073.4	9468.4
45°	10313.6	10422.2	10925.6	11496.0	11789.3	11535.3	11429.1	11422.1	11849.4	13447.5	10685.5
47.5°	11170.4	11267.4	11860.9	12424.4	12946.3	12981.0	12780.1	12849.3	13124.2	15054.8	12177.3
50°	12221.2	12449.8	12840.1	13426.7	14124.1	14687.6	14750.0	14657.6	14893.1	16916.1	13969.4
52.5°	13747.7	13835.4	14193.4	14676.1	15493.6	16449.6	17191.0	17063.9	16990.0	18689.7	15779.9
55°	14886.2	15004.0	15560.5	16223.3	17421.9	18682.8	20290.1	20334.0	19401.0	20394.1	17551.2
57.5°	14542.1	14722.2	15565.2	16897.7	19532.7	21837.4	23033.7	23063.7	21631.9	22049.9	19551.1
60°	12775.4	12860.9	14068.7	15846.9	19712.8	25255.3	26925.0	26682.5	23902.0	23902.0	21317.8
62.5°	9059.7	9193.6	10172.8	12789.3	17802.9	26442.3	31585.3	31084.1	27028.9	25673.3	22370.9
65°	5789.6	5660.3	6309.2	8073.6	13262.7	24689.5	35642.8	35672.8	29971.0	26382.3	21795.8
67°	4193.8	4143.0	4330.1	5519.4	8992.7	20754.3	35728.3	37310.2	31661.5	25934.2	19957.6
67.5°	3835.9	3875.1	4011.4	4979.0	8170.6	18886.0	35340.3	37213.2	32042.5	25664.0	19292.5
70°	2907.5	2840.5	2988.3	3521.8	4898.2	11914.0	30400.6	34130.2	31569.1	22982.9	15415.0
72.5°	2138.5	2131.5	2337.1	2879.8	3771.2	6346.2	22821.2	27366.0	25791.1	17500.4	9706.3
75°	1443.4	1508.0	1835.9	2406.4	3417.9	4115.3	15558.2	19853.7	17904.6	9937.2	3967.5
77.5°	822.1	826.8	1182.4	1932.9	3069.2	3311.6	9219.0	12648.4	9477.7	3304.7	1177.8
80°	355.6	390.3	586.6	1404.1	2544.9	2932.9	5286.1	6951.2	3833.6	699.7	381.0
82.5°	131.6	154.7	258.6	863.7	1856.7	2415.6	3193.9	3318.6	1300.2	247.1	237.9
85°	0.0	4.6	94.7	404.1	967.6	1078.5	2133.9	1967.6	575.0	117.8	154.7
87.5°	0.0	0.0	0.0	41.6	127.0	401.8	662.8	739.0	138.6	41.6	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°	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3	9161.3
2.5°	9092.0	8941.9	8565.5	8189.0	7909.6	7676.3	7325.3	7133.6	7032.0	6881.9	6891.2
5°	8863.4	8558.5	7895.7	7209.9	6655.6	6115.2	5468.6	5207.6	4988.2	4863.5	4780.4
7.5°	8523.9	8073.6	7092.1	6177.6	5325.4	4380.9	3671.9	3198.5	2879.8	2762.0	2648.8
10°	8152.1	7554.0	6276.9	5009.0	3826.6	2852.1	2251.6	1817.5	1662.7	1519.6	1533.4
12.5°	7808.0	7080.5	5528.6	3953.6	2681.2	1812.9	1413.3	1235.5	1184.7	1168.5	1168.5
15°	7526.2	6627.9	4725.0	2972.2	1838.3	1302.5	1131.6	1083.1	1064.6	1060.0	1060.0
17.5°	7226.0	6198.4	3999.8	2196.2	1337.1	1090.0	1032.3	1000.0	993.0	988.4	988.4
20°	6958.1	5766.5	3311.6	1635.0	1080.8	981.5	944.5	923.7	916.8	912.2	914.5
22.5°	6704.1	5383.1	2665.0	1235.5	951.5	893.7	856.8	836.0	822.1	810.6	812.9
25°	6477.8	5013.6	2143.1	1011.5	856.8	806.0	769.0	739.0	709.0	695.1	692.8
27.5°	6318.4	4690.3	1669.7	866.0	771.3	715.9	669.7	632.8	593.5	572.7	568.1
30°	6186.8	4362.4	1321.0	764.4	685.9	632.8	575.0	521.9	480.3	459.6	450.3
32.5°	6101.4	4050.6	1041.5	681.3	614.3	549.6	485.0	431.9	385.7	364.9	360.3
35°	6087.5	3789.7	852.2	612.0	549.6	480.3	413.4	355.6	316.4	295.6	291.0
37.5°	6186.8	3588.8	713.6	556.6	496.5	420.3	346.4	293.3	258.6	242.5	240.2
40°	6452.4	3461.7	618.9	510.4	448.0	364.9	295.6	249.4	214.8	198.6	198.6
42.5°	6958.1	3466.4	556.6	466.5	399.5	311.8	251.7	207.8	177.8	164.0	159.3
45°	7747.9	3623.4	503.4	422.6	353.3	270.2	214.8	170.9	140.9	129.3	129.3
47.5°	8805.6	3935.2	457.3	378.7	311.8	230.9	182.4	138.6	113.2	101.6	101.6
50°	10188.9	4436.3	418.0	341.8	277.1	198.6	147.8	113.2	87.8	78.5	76.2
52.5°	11634.6	5055.2	371.8	309.5	237.9	168.6	120.1	87.8	67.0	60.0	57.7
55°	13230.4	5660.3	327.9	277.1	194.0	140.9	94.7	69.3	48.5	41.6	41.6
57.5°	14840.0	6253.8	274.8	230.9	152.4	103.9	73.9	50.8	32.3	25.4	25.4
60°	16202.5	6445.5	233.2	187.1	115.5	73.9	53.1	32.3	18.5	11.5	11.5
62.5°	16389.6	5798.8	196.3	143.2	83.1	50.8	27.7	18.5	6.9	4.6	4.6
65°	15373.5	4711.1	164.0	108.5	55.4	25.4	11.5	6.9	2.3	0.0	0.0
67°	13775.4	3819.7	133.9	80.8	39.3	16.2	6.9	2.3	0.0	0.0	0.0
67.5°	13366.6	3641.9	129.3	76.2	34.6	13.9	4.6	2.3	0.0	0.0	0.0
70°	10489.2	2727.4	92.4	46.2	20.8	9.2	0.0	0.0	0.0	0.0	0.0
72.5°	6519.4	1542.7	67.0	27.7	13.9	4.6	0.0	0.0	0.0	0.0	0.0
75°	2464.1	540.4	46.2	18.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	766.7	205.5	27.7	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	258.6	78.5	18.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	159.3	32.3	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.3	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	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)