

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: P454720

Luminaire Tested: **GALN-SA5D-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454720  
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-SA5D-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 1200mA 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: 31706 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

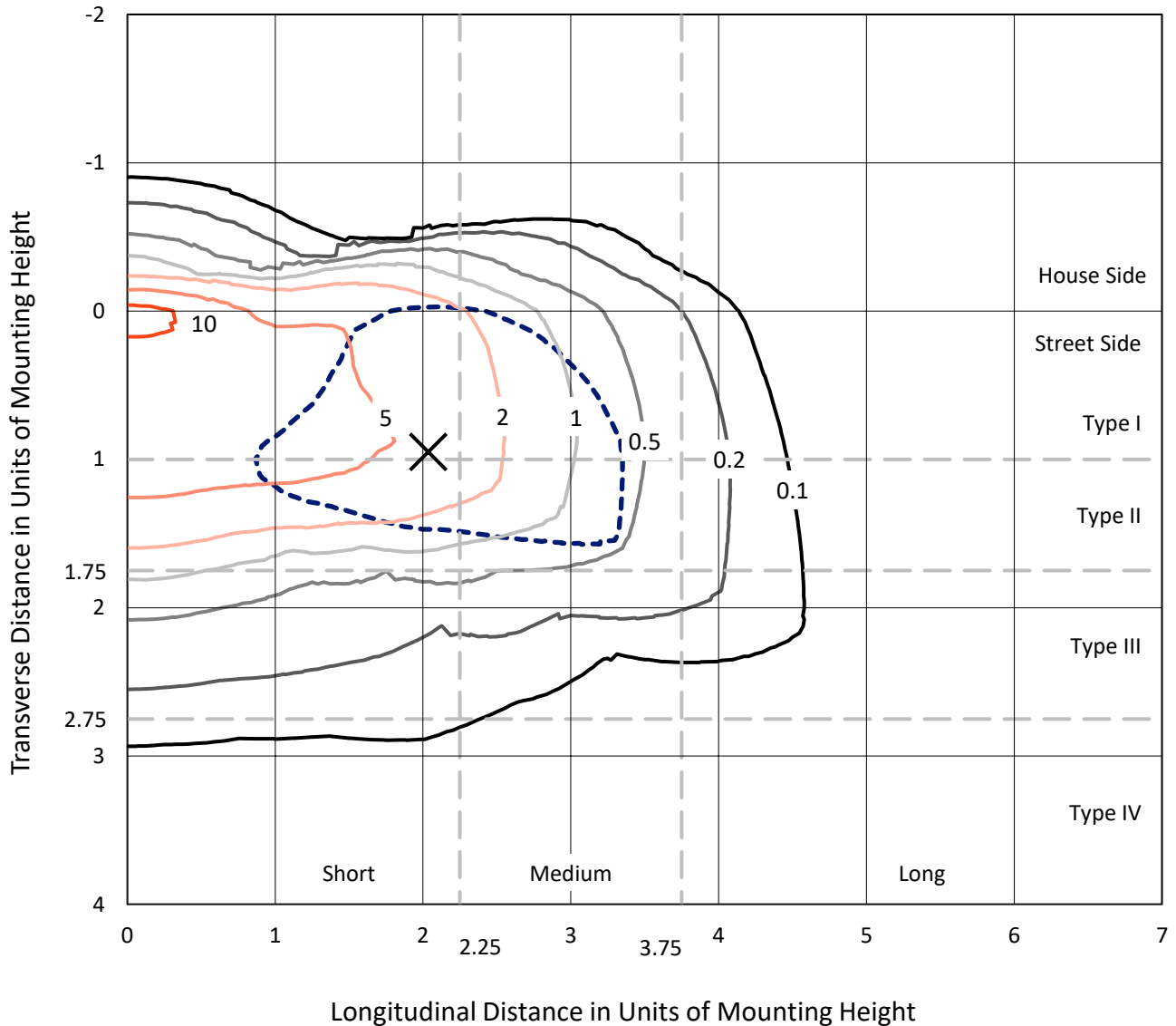
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

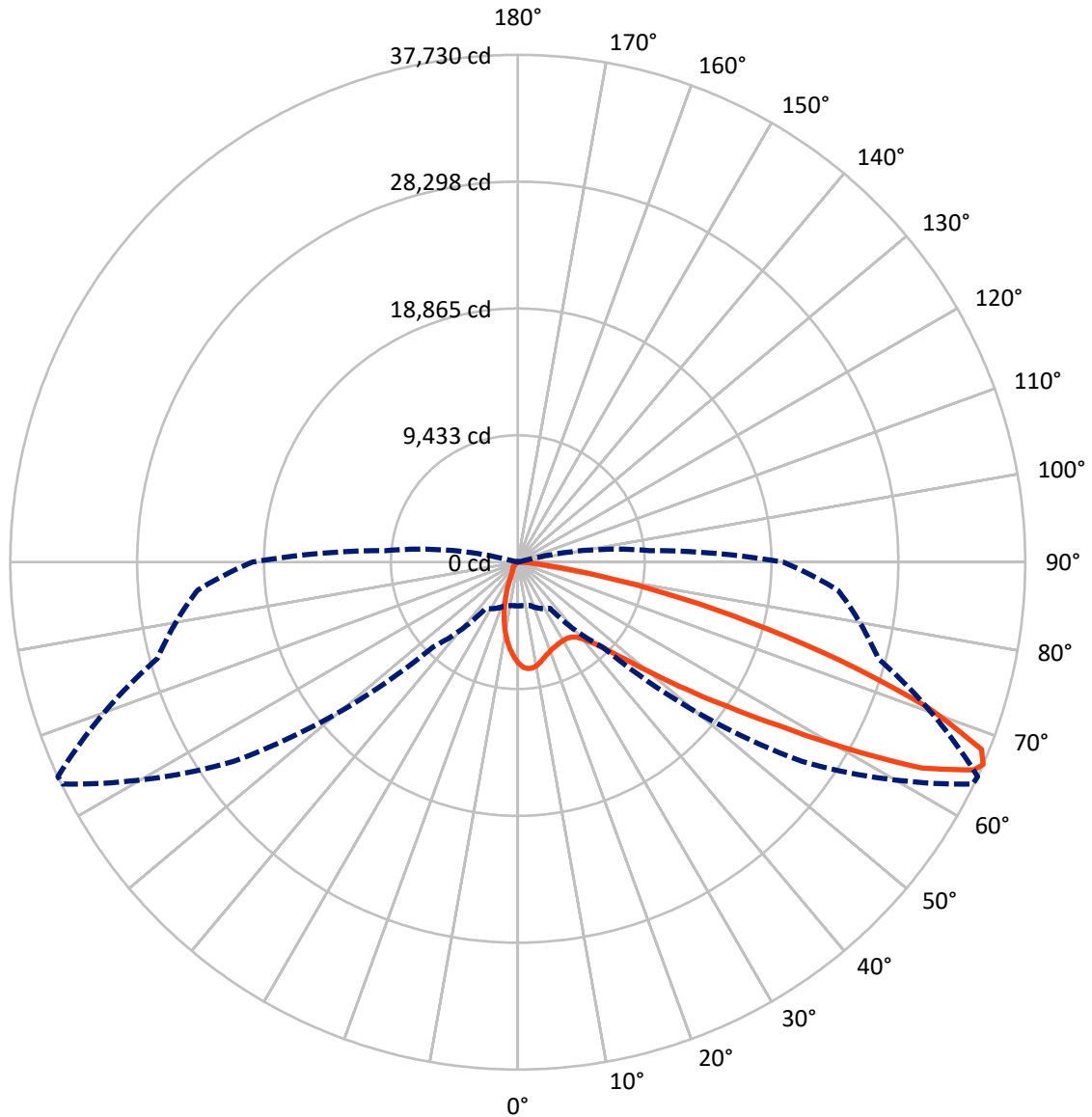
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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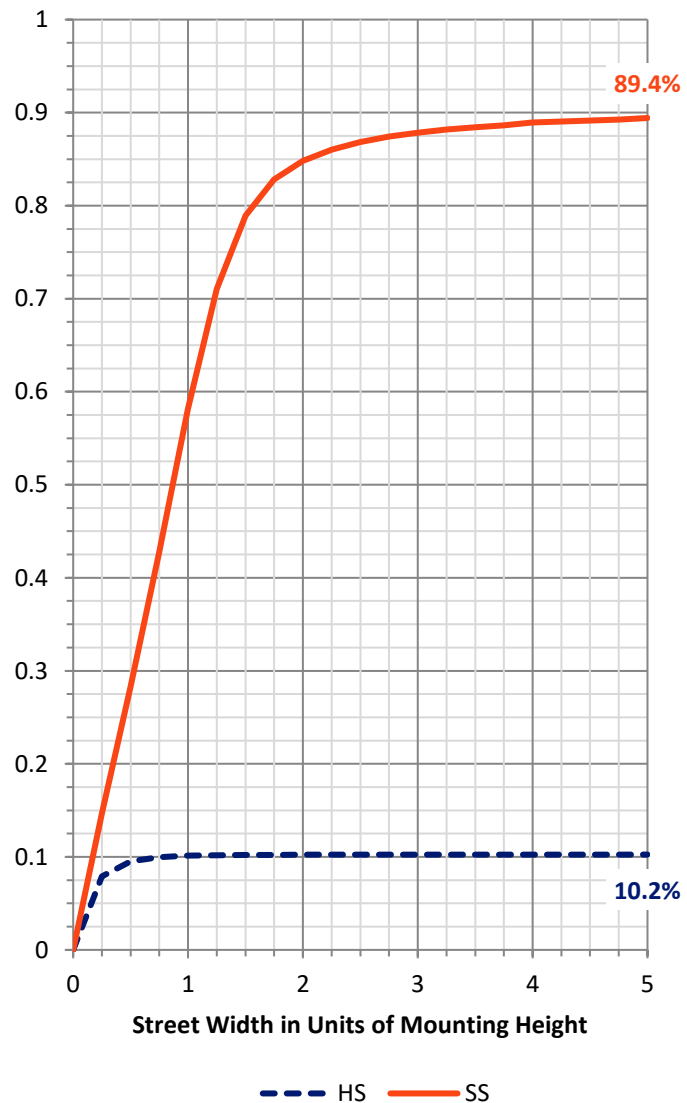
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3278.9	0.0	3278.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	28427.2	0.0	28427.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31706.0	0.0	31706.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.9	1.9
10°-20°	1339.8	4.2
20°-30°	1919.3	6.1
30°-40°	2803.3	8.8
40°-50°	4700.6	14.8
50°-60°	7844.5	24.7
60°-70°	8326.7	26.3
70°-80°	3771.1	11.9
80°-90°	385.9	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°	31706.0	100.0
0°-180°	31706.0	100.0



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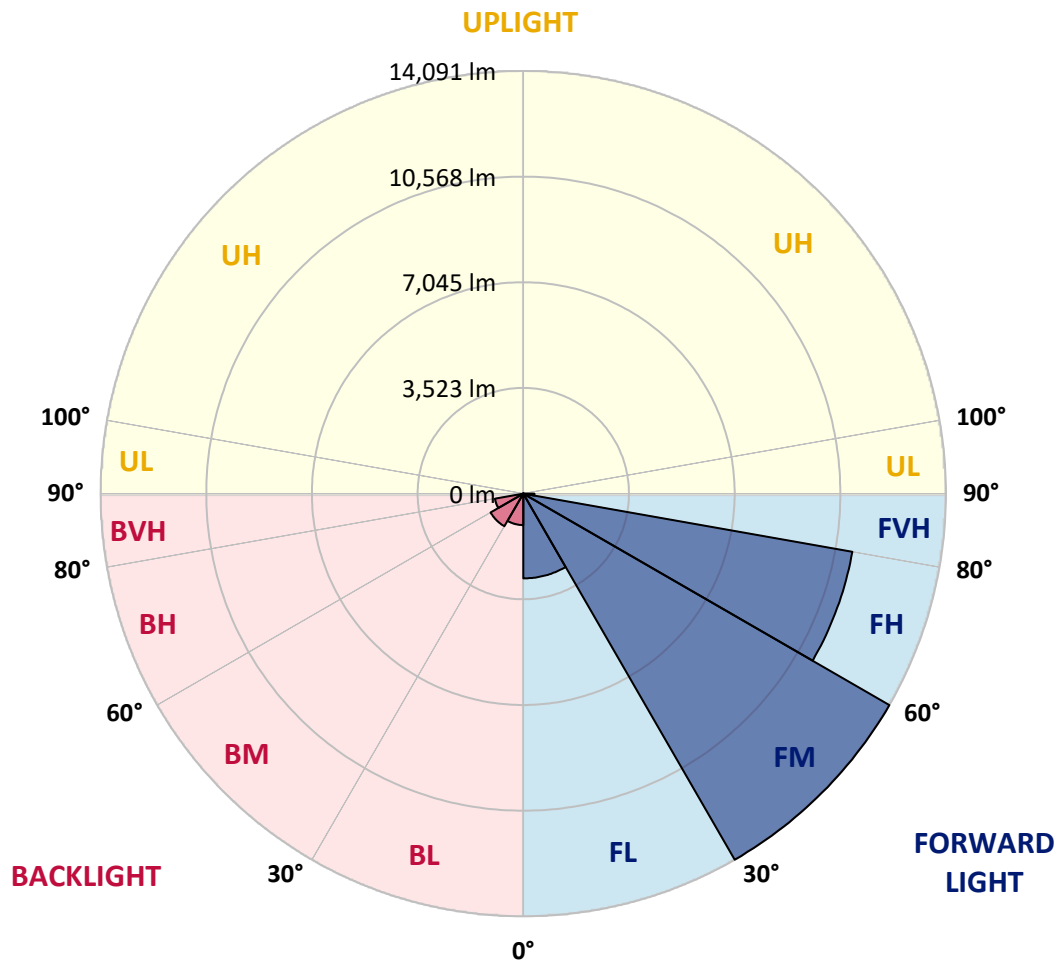
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2825.1	8.9			
FM (30°-60°)	14090.9	44.4			
FH (60°-80°)	11137.6	35.1			G4/12000
FVH (80°-90°)	373.6	1.2			G3/500
BL (0°-30°)	1048.9	3.3	B3/2500		
BM (30°-60°)	1257.5	4.0	B2/2500		
BH (60°-80°)	960.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.3	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°	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7
2.5°	7923.4	7932.0	7942.7	7957.7	7968.4	7936.2	7891.3	7839.9	7829.2	7720.0	7587.2
5°	7499.4	7512.2	7606.5	7657.9	7773.5	7878.4	7944.8	7953.4	7949.1	7846.3	7634.3
7.5°	6895.5	6931.9	7024.0	7113.9	7330.2	7529.4	7764.9	7929.8	7940.5	7912.7	7649.3
10°	6405.1	6428.7	6475.8	6653.5	6833.4	7137.5	7467.3	7777.8	7803.5	7914.8	7636.4
12.5°	6021.8	6056.0	6113.9	6250.9	6467.2	6754.2	7128.9	7546.5	7600.0	7874.1	7600.0
15°	5754.1	5771.2	5829.1	5964.0	6173.8	6439.4	6818.4	7304.5	7351.6	7820.6	7593.6
17.5°	5627.8	5647.0	5687.7	5794.8	5968.2	6214.5	6585.0	7109.6	7169.6	7786.3	7617.2
20°	5662.0	5679.1	5681.3	5737.0	5854.7	6062.5	6413.7	6927.6	7004.7	7764.9	7655.7
22.5°	5856.9	5859.0	5833.3	5807.6	5848.3	5998.2	6308.7	6812.0	6891.2	7760.6	7700.7
25°	6148.1	6154.6	6111.7	6021.8	5940.4	6017.5	6285.2	6737.0	6807.7	7749.9	7728.5
27.5°	6550.7	6548.6	6535.7	6385.8	6154.6	6103.2	6304.5	6696.3	6756.3	7720.0	7739.2
30°	7113.9	7096.8	7069.0	6899.8	6546.4	6310.9	6385.8	6670.6	6726.3	7677.1	7711.4
32.5°	7668.6	7732.8	7728.5	7567.9	7126.8	6681.4	6555.0	6704.9	6745.6	7649.3	7670.7
35°	8315.3	8313.1	8478.0	8418.1	7902.0	7154.6	6844.1	6818.4	6850.5	7668.6	7651.4
37.5°	8914.9	8970.6	9227.5	9289.6	8818.5	7822.7	7253.1	7062.5	7073.2	7799.2	7698.5
40°	9662.3	9769.3	10152.7	10360.4	9944.9	8814.2	7857.0	7510.1	7512.2	8120.4	7876.3
42.5°	10625.9	10795.1	11152.7	11499.6	11276.9	9987.8	8762.8	8218.9	8214.6	8685.8	8283.2
45°	11797.3	11915.1	12322.0	12872.3	12731.0	11626.0	10082.0	9317.5	9261.8	9613.0	9004.8
47.5°	12808.1	12968.7	13382.0	14009.4	14651.9	13626.1	11658.1	10827.2	10790.8	11088.5	10242.6
50°	13249.2	13390.5	13825.3	14705.4	16262.2	16251.5	14005.1	13030.8	12968.7	13129.3	12157.1
52.5°	12765.2	12898.0	13337.0	14433.4	17020.3	19450.9	17405.8	15795.4	15720.4	15514.9	14444.1
55°	11107.7	11217.0	11865.8	13125.0	16729.1	21583.8	22091.3	19211.0	18919.8	18121.0	17033.2
57.5°	8844.2	8788.5	9191.1	10653.8	15020.2	22299.0	26901.0	23466.1	22945.7	20373.8	19223.9
60°	6128.9	6300.2	6462.9	7426.6	11294.1	21059.1	29892.6	28815.5	28130.2	22590.2	21322.5
62.5°	4505.6	4619.1	4726.2	5171.6	7101.1	16814.7	30421.6	34310.5	33702.3	24943.7	23324.8
65°	3563.4	3572.0	3614.8	4053.8	4679.1	10934.3	27879.7	37409.1	37252.8	27209.4	24136.4
66°	3246.5	3248.6	3315.0	3786.1	4199.4	8904.2	25843.1	37644.7	37730.4	27753.3	23898.7
67.5°	2837.4	2828.9	2925.2	3402.8	3824.6	6420.1	22198.4	36689.6	37197.1	28170.9	23044.2
70°	2199.3	2188.6	2306.4	2854.6	3522.7	4282.9	14754.7	31503.0	32321.0	27316.4	20388.8
72.5°	1464.8	1473.3	1674.6	2252.8	3362.1	3771.1	8876.3	23965.1	25121.5	22558.1	16039.5
75°	854.4	869.4	1098.6	1674.6	2918.8	3595.5	5023.9	17088.8	17827.6	15577.0	9992.0
77.5°	447.6	454.0	614.6	1105.0	2237.8	3338.5	3347.1	10917.2	11264.1	7570.1	3955.3
80°	237.7	231.3	329.8	666.0	1539.7	2931.7	2715.4	5779.8	6008.9	2248.5	1000.1
82.5°	89.9	98.5	175.6	436.9	910.1	2105.1	2338.5	2554.8	2475.5	494.7	419.7
85°	17.1	21.4	75.0	259.1	458.3	880.1	1723.9	1252.8	1160.7	186.3	242.0
87.5°	2.1	4.3	21.4	62.1	66.4	297.7	509.7	346.9	299.8	68.5	100.6
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°	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7	7518.7
2.5°	7522.9	7465.1	7272.4	7081.8	6886.9	6711.3	6591.4	6396.5	6347.3	6276.6	6235.9
5°	7508.0	7373.0	7002.6	6597.8	6220.9	5814.1	5503.5	5203.7	5043.1	4961.8	4931.8
7.5°	7465.1	7251.0	6672.8	6038.9	5435.0	4826.8	4297.9	3895.3	3636.2	3458.5	3338.5
10°	7379.5	7083.9	6289.5	5417.9	4505.6	3702.6	3032.3	2522.6	2128.6	2004.4	2008.7
12.5°	7291.7	6897.6	5861.2	4728.3	3597.7	2584.7	1873.8	1471.2	1282.7	1220.6	1207.8
15°	7210.3	6719.9	5441.4	4060.2	2679.0	1674.6	1207.8	1066.4	1015.1	1004.3	1002.2
17.5°	7167.5	6555.0	4993.9	3295.7	1869.5	1137.1	967.9	929.4	914.4	903.7	899.4
20°	7131.1	6411.5	4565.6	2580.5	1278.5	931.5	867.3	830.9	805.2	794.5	788.1
22.5°	7105.4	6263.8	4122.3	1998.0	978.6	826.6	768.8	721.7	685.3	672.4	663.9
25°	7066.8	6101.0	3674.7	1460.5	824.5	734.5	668.1	612.5	565.3	541.8	537.5
27.5°	7011.1	5916.9	3184.3	1081.4	736.7	653.1	571.8	503.2	456.1	430.4	432.6
30°	6921.2	5724.1	2694.0	858.7	666.0	569.6	481.8	415.4	370.5	351.2	349.1
32.5°	6814.1	5490.7	2244.2	736.7	601.7	494.7	402.6	344.8	310.5	295.5	293.4
35°	6713.5	5255.1	1786.0	661.7	535.4	426.2	338.4	289.1	263.4	250.6	252.7
37.5°	6657.8	5045.3	1391.9	601.7	481.8	366.2	291.2	248.4	224.9	214.1	212.0
40°	6694.2	4874.0	1107.1	548.2	421.9	314.8	250.6	214.1	190.6	175.6	175.6
42.5°	6865.5	4799.0	893.0	496.8	366.2	272.0	218.4	184.2	158.5	143.5	145.6
45°	7388.0	4878.2	747.4	449.7	314.8	235.6	188.4	152.0	128.5	117.8	115.6
47.5°	8255.3	5175.9	646.7	400.5	269.8	201.3	158.5	126.3	102.8	94.2	92.1
50°	9771.5	5790.5	571.8	351.2	229.1	171.3	130.6	100.6	81.4	72.8	72.8
52.5°	11857.3	7131.1	518.2	295.5	192.7	145.6	107.1	81.4	64.2	57.8	55.7
55°	14037.3	8544.4	490.4	248.4	160.6	119.9	85.7	64.2	49.3	42.8	40.7
57.5°	16133.8	9653.7	458.3	201.3	128.5	92.1	66.4	49.3	34.3	30.0	27.8
60°	18144.6	10551.0	389.7	160.6	100.6	66.4	49.3	34.3	23.6	19.3	19.3
62.5°	19943.4	11073.5	306.2	128.5	77.1	47.1	32.1	25.7	17.1	12.8	12.8
65°	20153.3	10394.6	231.3	98.5	55.7	30.0	19.3	19.3	12.8	8.6	8.6
66°	19731.4	9818.6	203.4	89.9	49.3	25.7	17.1	15.0	10.7	6.4	6.4
67.5°	18789.2	8835.7	175.6	77.1	40.7	19.3	12.8	12.8	8.6	4.3	4.3
70°	16234.4	7216.7	139.2	57.8	30.0	15.0	8.6	8.6	6.4	4.3	4.3
72.5°	12373.3	5387.9	113.5	42.8	21.4	10.7	6.4	6.4	6.4	4.3	4.3
75°	7463.0	2901.7	87.8	32.1	19.3	8.6	4.3	6.4	8.6	6.4	4.3
77.5°	2749.6	987.2	68.5	25.7	15.0	8.6	4.3	4.3	8.6	6.4	6.4
80°	674.6	257.0	49.3	21.4	15.0	8.6	4.3	4.3	8.6	8.6	8.6
82.5°	312.7	109.2	34.3	19.3	15.0	8.6	4.3	4.3	6.4	8.6	8.6
85°	179.9	51.4	27.8	21.4	15.0	8.6	4.3	4.3	6.4	8.6	8.6
87.5°	72.8	25.7	25.7	21.4	17.1	10.7	4.3	4.3	4.3	6.4	6.4
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)