

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: P455561

Luminaire Tested: **GALN-SA6D-730-U-SL2-HSS**

Issue Date: 1/4/2021

### Test Information

Test Method: LM-79-08  
Report Number: P455561  
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-SA6D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 34192 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - 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

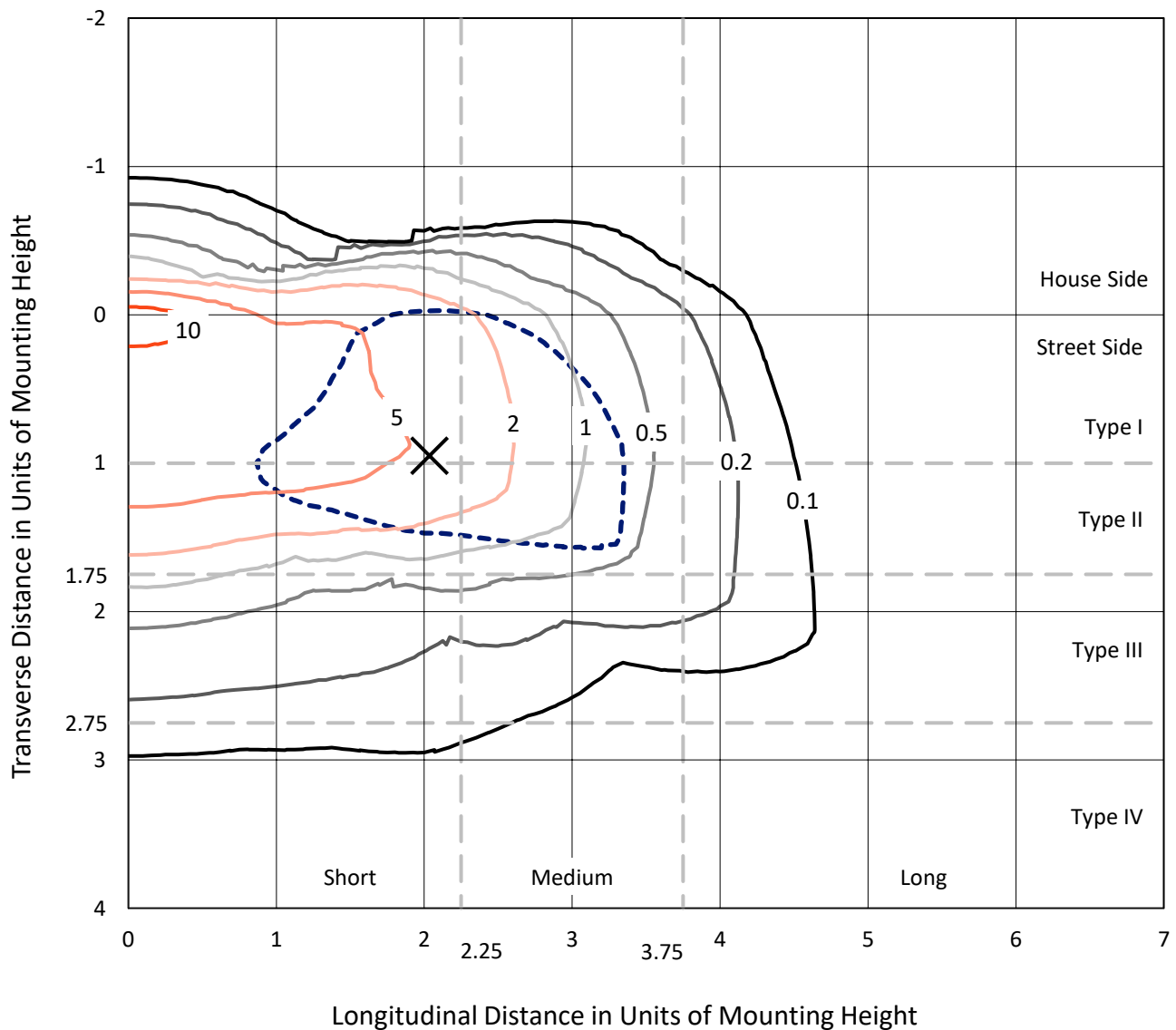


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## Iso-Footcandle Lines of Horizontal Illumination

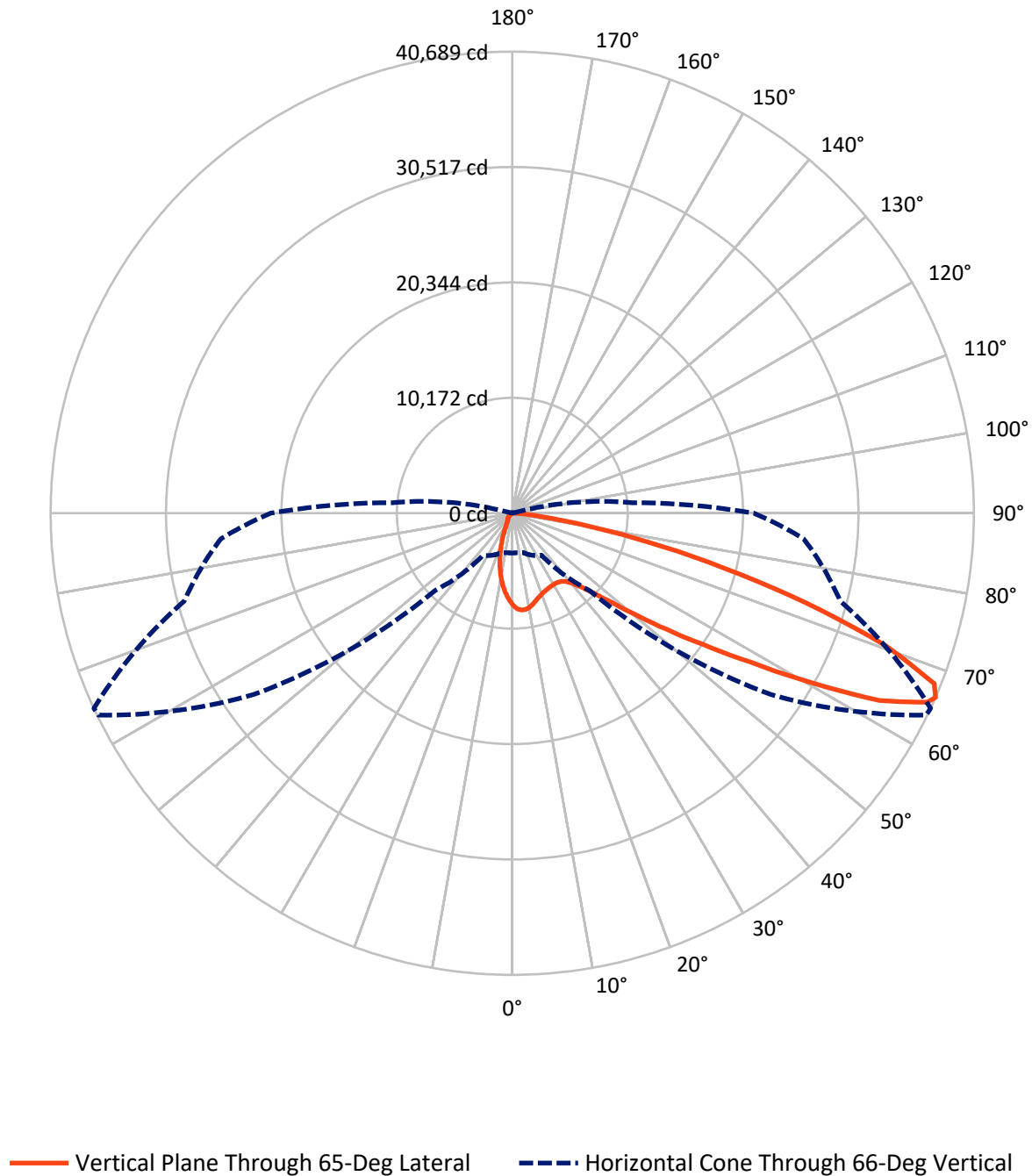
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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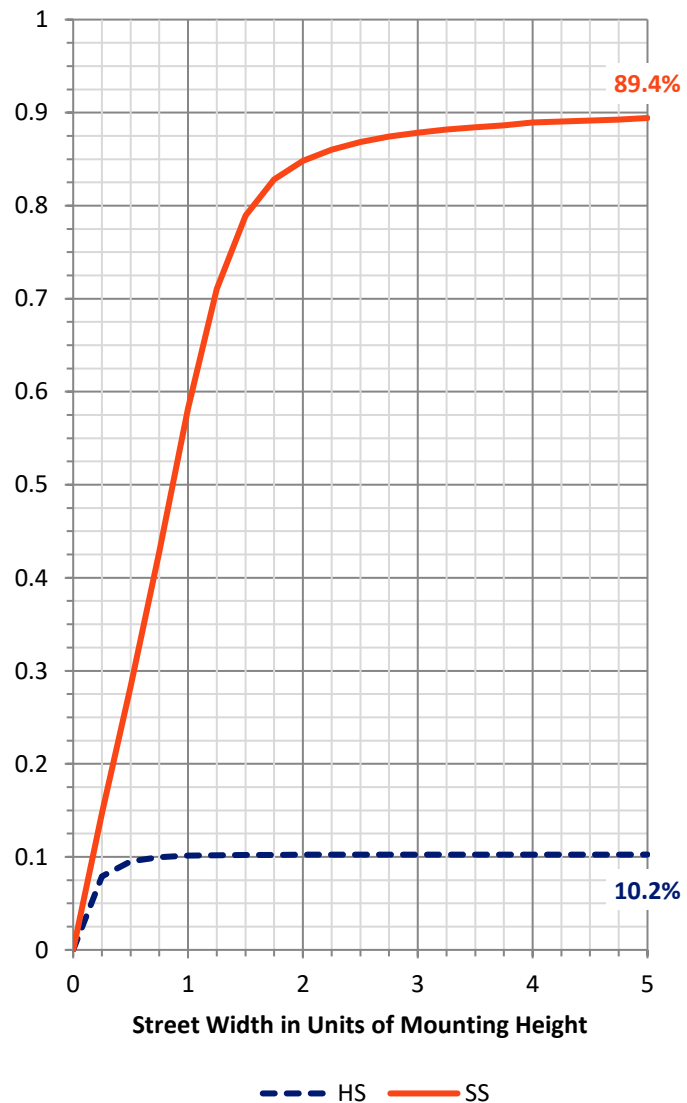
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3535.9	0.0	3535.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	30656.1	0.0	30656.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	34192.0	0.0	34192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.1	1.9
10°-20°	1444.9	4.2
20°-30°	2069.8	6.1
30°-40°	3023.1	8.8
40°-50°	5069.1	14.8
50°-60°	8459.6	24.7
60°-70°	8979.6	26.3
70°-80°	4066.8	11.9
80°-90°	416.1	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°	34192.0	100.0
0°-180°	34192.0	100.0

**Coefficient of Utilization**



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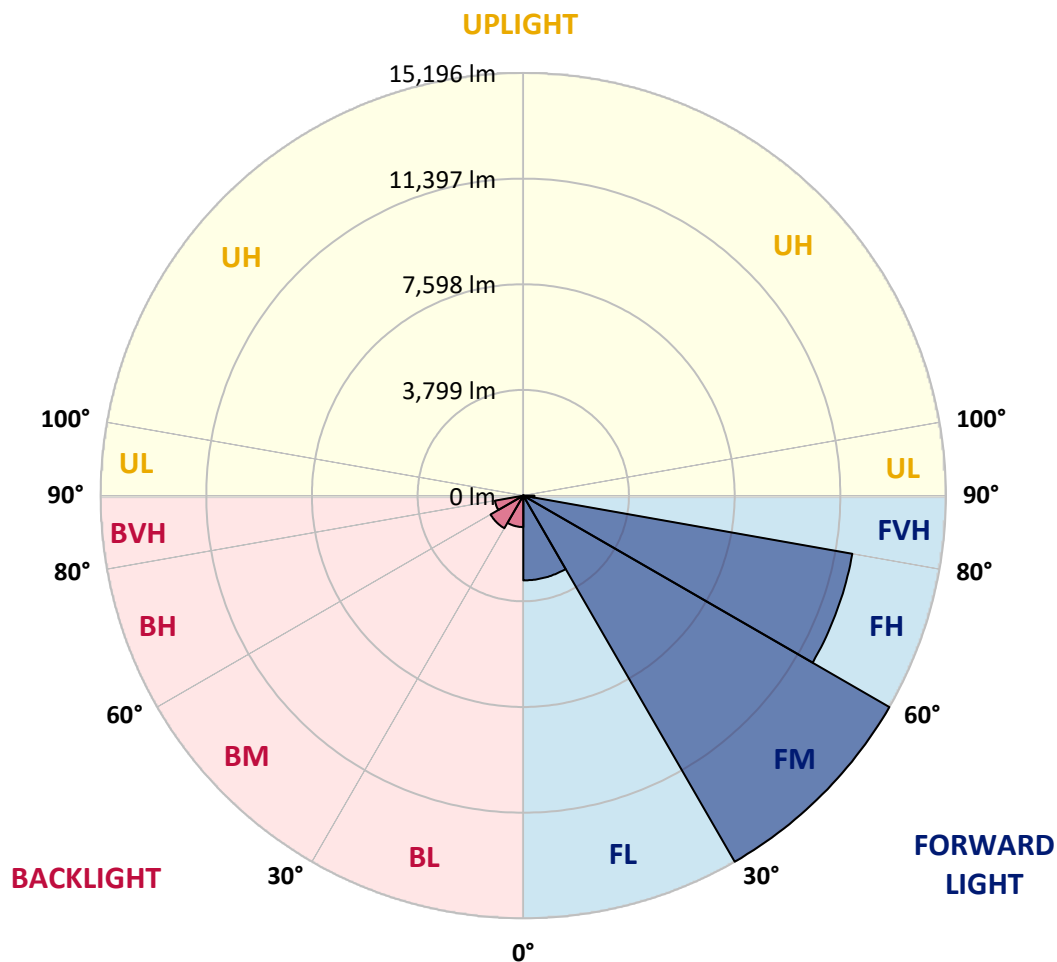
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3046.6	8.9			
FM	(30°-60°)	15195.7	44.4			
FH	(60°-80°)	12010.9	35.1			G5
FVH	(80°-90°)	402.9	1.2			G3/500
BL	(0°-30°)	1131.1	3.3	B3/2500		
BM	(30°-60°)	1356.1	4.0	B2/2500		
BH	(60°-80°)	1035.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	13.2	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-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2
2.5°	8544.7	8553.9	8565.4	8581.6	8593.2	8558.5	8510.0	8454.6	8443.0	8325.3	8182.1
5°	8087.4	8101.3	8202.9	8258.3	8383.0	8496.2	8567.7	8577.0	8572.4	8461.5	8232.9
7.5°	7436.2	7475.4	7574.7	7671.7	7905.0	8119.7	8373.8	8551.6	8563.1	8533.1	8249.1
10°	6907.3	6932.7	6983.5	7175.2	7369.2	7697.1	8052.8	8387.6	8415.3	8535.4	8235.2
12.5°	6493.9	6530.9	6593.2	6741.0	6974.3	7283.7	7687.9	8138.2	8195.9	8491.5	8195.9
15°	6205.3	6223.7	6286.1	6431.6	6657.9	6944.3	7353.0	7877.2	7928.1	8433.8	8189.0
17.5°	6069.0	6089.8	6133.7	6249.1	6436.2	6701.8	7101.3	7667.1	7731.8	8396.9	8214.4
20°	6106.0	6124.4	6126.7	6186.8	6313.8	6537.8	6916.6	7470.8	7553.9	8373.8	8256.0
22.5°	6316.1	6318.4	6290.7	6263.0	6306.9	6468.5	6803.4	7346.1	7431.5	8369.1	8304.5
25°	6630.2	6637.1	6590.9	6493.9	6406.2	6489.3	6778.0	7265.3	7341.5	8357.6	8334.5
27.5°	7064.4	7062.0	7048.2	6886.5	6637.1	6581.7	6798.8	7221.4	7286.0	8325.3	8346.0
30°	7671.7	7653.2	7623.2	7440.8	7059.7	6805.7	6886.5	7193.7	7253.7	8279.1	8316.0
32.5°	8269.8	8339.1	8334.5	8161.3	7685.6	7205.2	7069.0	7230.6	7274.5	8249.1	8272.1
35°	8967.3	8965.0	9142.8	9078.1	8521.6	7715.6	7380.7	7353.0	7387.7	8269.8	8251.4
37.5°	9613.9	9673.9	9951.1	10018.0	9510.0	8436.1	7821.8	7616.3	7627.8	8410.7	8302.2
40°	10419.9	10535.3	10948.7	11172.7	10724.7	9505.4	8473.1	8098.9	8101.3	8757.1	8493.8
42.5°	11459.1	11641.5	12027.2	12401.3	12161.1	10770.9	9449.9	8863.3	8858.7	9366.8	8932.6
45°	12722.3	12849.3	13288.1	13881.6	13729.2	12537.5	10872.5	10048.1	9988.0	10366.7	9710.9
47.5°	13812.3	13985.5	14431.2	15107.9	15800.7	14694.5	12572.2	11676.2	11636.9	11957.9	11045.7
50°	14288.0	14440.5	14909.3	15858.4	17537.3	17525.8	15103.3	14052.5	13985.5	14158.7	13110.3
52.5°	13766.1	13909.3	14382.7	15565.1	18354.8	20976.0	18770.5	17033.9	16953.1	16731.4	15576.7
55°	11978.7	12096.5	12796.2	14154.1	18040.8	23276.1	23823.4	20717.3	20403.2	19541.9	18368.7
57.5°	9537.7	9477.6	9911.8	11489.1	16197.9	24047.4	29010.3	25306.0	24744.9	21971.3	20731.2
60°	6609.4	6794.2	6969.7	8008.9	12179.6	22710.3	32236.4	31074.8	30335.8	24361.5	22994.4
62.5°	4858.9	4981.3	5096.8	5577.1	7657.9	18133.1	32806.9	37000.7	36344.8	26899.5	25153.6
65°	3842.8	3852.0	3898.2	4371.6	5046.0	11791.6	30065.6	40342.3	40173.7	29342.8	26028.9
66°	3501.0	3503.3	3574.9	4083.0	4528.7	9602.3	27869.4	40596.3	40688.7	29929.4	25772.5
67.5°	3059.9	3050.7	3154.6	3669.6	4124.5	6923.5	23938.9	39566.4	40113.7	30379.7	24851.1
70°	2371.7	2360.2	2487.2	3078.4	3798.9	4618.7	15911.5	33973.1	34855.3	29458.3	21987.5
72.5°	1579.6	1588.8	1805.9	2429.5	3625.7	4066.8	9572.3	25844.1	27091.2	24326.9	17297.2
75°	921.4	937.6	1184.7	1805.9	3147.7	3877.4	5417.8	18428.7	19225.5	16798.3	10775.5
77.5°	482.7	489.6	662.8	1191.6	2413.3	3600.3	3609.5	11773.1	12147.3	8163.6	4265.4
80°	256.3	249.4	355.6	718.2	1660.4	3161.5	2928.3	6233.0	6480.1	2424.8	1078.5
82.5°	97.0	106.2	189.4	471.1	981.5	2270.1	2521.8	2755.1	2669.6	533.5	452.6
85°	18.5	23.1	80.8	279.4	494.2	949.1	1859.0	1351.0	1251.7	200.9	261.0
87.5°	2.3	4.6	23.1	67.0	71.6	321.0	549.6	374.1	323.3	73.9	108.5
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°	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2
2.5°	8112.8	8050.5	7842.6	7637.1	7426.9	7237.6	7108.2	6898.1	6845.0	6768.8	6724.9
5°	8096.6	7951.1	7551.6	7115.2	6708.7	6269.9	5935.1	5611.8	5438.6	5350.8	5318.5
7.5°	8050.5	7819.5	7196.0	6512.4	5861.2	5205.3	4634.9	4200.7	3921.3	3729.6	3600.3
10°	7958.1	7639.4	6782.6	5842.7	4858.9	3992.9	3270.1	2720.4	2295.5	2161.6	2166.2
12.5°	7863.4	7438.5	6320.7	5099.1	3879.7	2787.4	2020.7	1586.5	1383.3	1316.3	1302.5
15°	7775.6	7246.8	5868.1	4378.6	2889.0	1805.9	1302.5	1150.1	1094.6	1083.1	1080.8
17.5°	7729.4	7069.0	5385.4	3554.1	2016.1	1226.3	1043.8	1002.3	986.1	974.6	969.9
20°	7690.2	6914.2	4923.6	2782.8	1378.7	1004.6	935.3	896.0	868.3	856.8	849.8
22.5°	7662.5	6754.9	4445.5	2154.6	1055.4	891.4	829.1	778.3	739.0	725.1	715.9
25°	7620.9	6579.4	3962.9	1575.0	889.1	792.1	720.5	660.5	609.7	584.3	579.7
27.5°	7560.9	6380.8	3434.0	1166.2	794.4	704.4	616.6	542.7	491.9	464.2	466.5
30°	7463.9	6172.9	2905.2	926.1	718.2	614.3	519.6	448.0	399.5	378.7	376.4
32.5°	7348.4	5921.2	2420.2	794.4	648.9	533.5	434.2	371.8	334.9	318.7	316.4
35°	7239.9	5667.2	1926.0	713.6	577.3	459.6	364.9	311.8	284.1	270.2	272.5
37.5°	7179.8	5440.9	1501.1	648.9	519.6	394.9	314.1	267.9	242.5	230.9	228.6
40°	7219.1	5256.1	1193.9	591.2	454.9	339.5	270.2	230.9	205.5	189.4	189.4
42.5°	7403.8	5175.3	963.0	535.8	394.9	293.3	235.6	198.6	170.9	154.7	157.0
45°	7967.3	5260.7	806.0	485.0	339.5	254.0	203.2	164.0	138.6	127.0	124.7
47.5°	8902.6	5581.7	697.4	431.9	291.0	217.1	170.9	136.3	110.8	101.6	99.3
50°	10537.6	6244.5	616.6	378.7	247.1	184.7	140.9	108.5	87.8	78.5	78.5
52.5°	12787.0	7690.2	558.9	318.7	207.8	157.0	115.5	87.8	69.3	62.4	60.0
55°	15137.9	9214.4	528.8	267.9	173.2	129.3	92.4	69.3	53.1	46.2	43.9
57.5°	17398.8	10410.6	494.2	217.1	138.6	99.3	71.6	53.1	36.9	32.3	30.0
60°	19567.3	11378.2	420.3	173.2	108.5	71.6	53.1	36.9	25.4	20.8	20.8
62.5°	21507.1	11941.7	330.2	138.6	83.1	50.8	34.6	27.7	18.5	13.9	13.9
65°	21733.4	11209.7	249.4	106.2	60.0	32.3	20.8	20.8	13.9	9.2	9.2
66°	21278.5	10588.4	219.4	97.0	53.1	27.7	18.5	16.2	11.5	6.9	6.9
67.5°	20262.4	9528.4	189.4	83.1	43.9	20.8	13.9	13.9	9.2	4.6	4.6
70°	17507.3	7782.6	150.1	62.4	32.3	16.2	9.2	9.2	6.9	4.6	4.6
72.5°	13343.5	5810.4	122.4	46.2	23.1	11.5	6.9	6.9	6.9	4.6	4.6
75°	8048.1	3129.2	94.7	34.6	20.8	9.2	4.6	6.9	9.2	6.9	4.6
77.5°	2965.2	1064.6	73.9	27.7	16.2	9.2	4.6	4.6	9.2	6.9	6.9
80°	727.5	277.1	53.1	23.1	16.2	9.2	4.6	4.6	9.2	9.2	9.2
82.5°	337.2	117.8	36.9	20.8	16.2	9.2	4.6	4.6	6.9	9.2	9.2
85°	194.0	55.4	30.0	23.1	16.2	9.2	4.6	4.6	6.9	9.2	9.2
87.5°	78.5	27.7	27.7	23.1	18.5	11.5	4.6	4.6	4.6	6.9	6.9
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)