

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: STREETWORKS

Report Number: P323340

Luminaire Tested: **GAN-SA6D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 28257 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

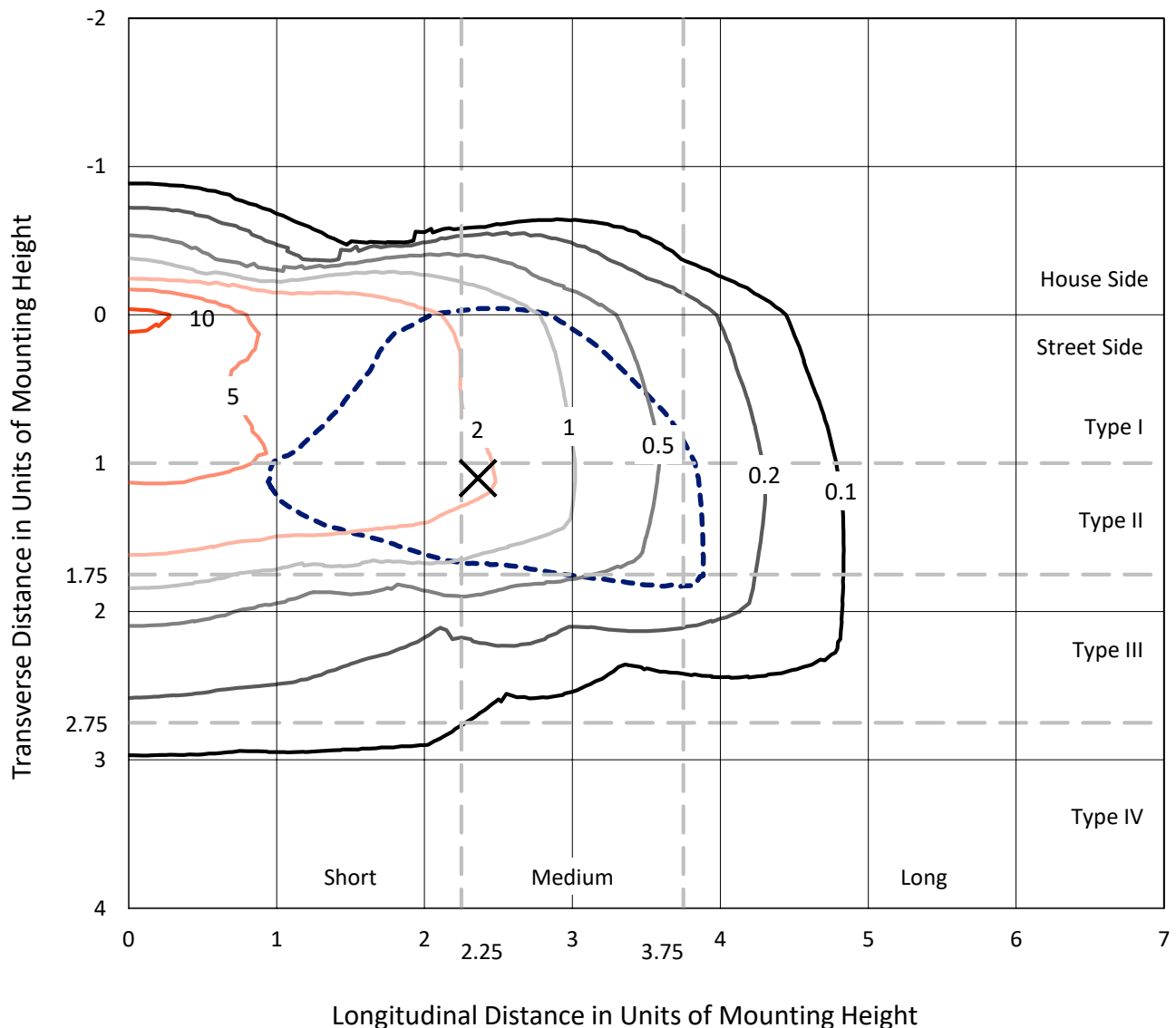
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

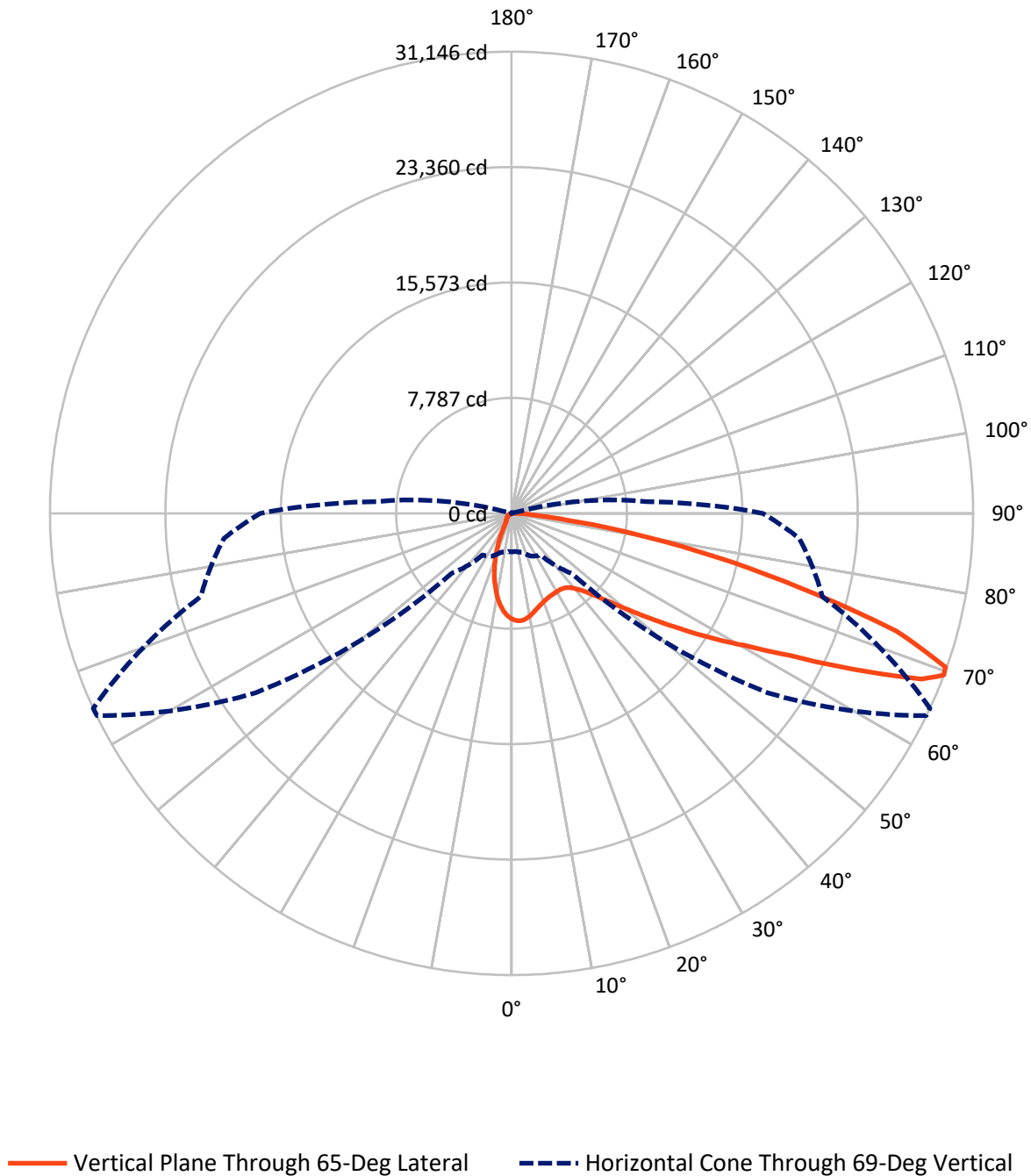
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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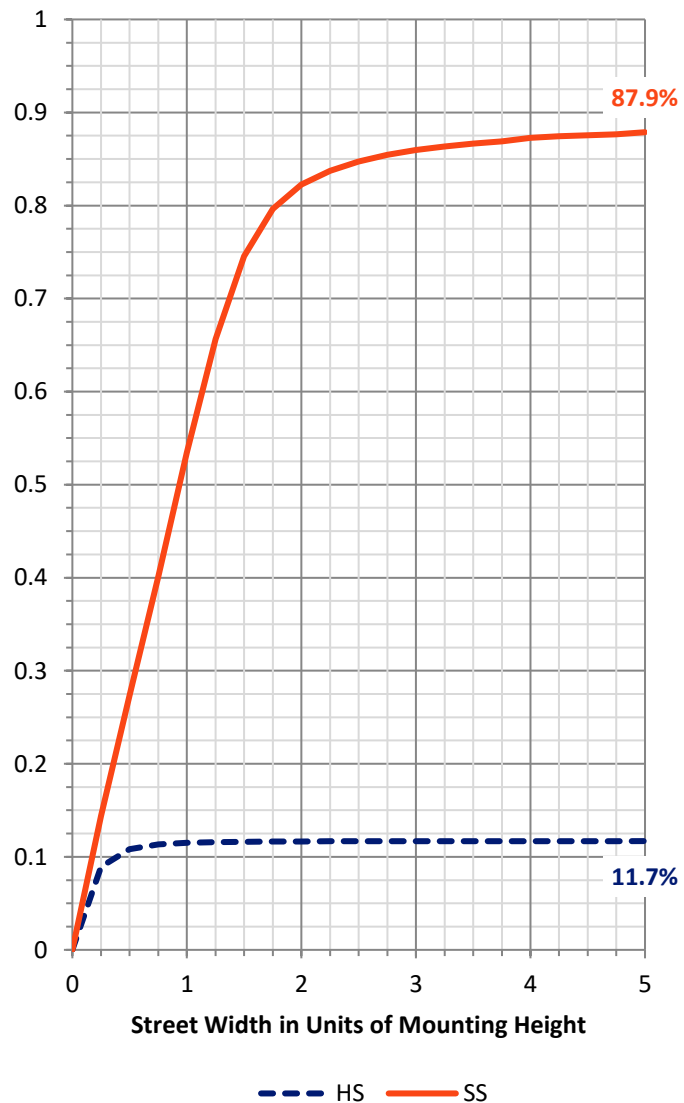
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.8	0.0	3330.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24926.2	0.0	24926.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	28257.0	0.0	28257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.1	2.1
10°-20°	1307.1	4.6
20°-30°	1810.4	6.4
30°-40°	2524.2	8.9
40°-50°	3923.5	13.9
50°-60°	6298.7	22.3
60°-70°	7124.9	25.2
70°-80°	4184.5	14.8
80°-90°	486.8	1.7
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°	28257.0	100.0
0°-180°	28257.0	100.0

Coefficient of Utilization



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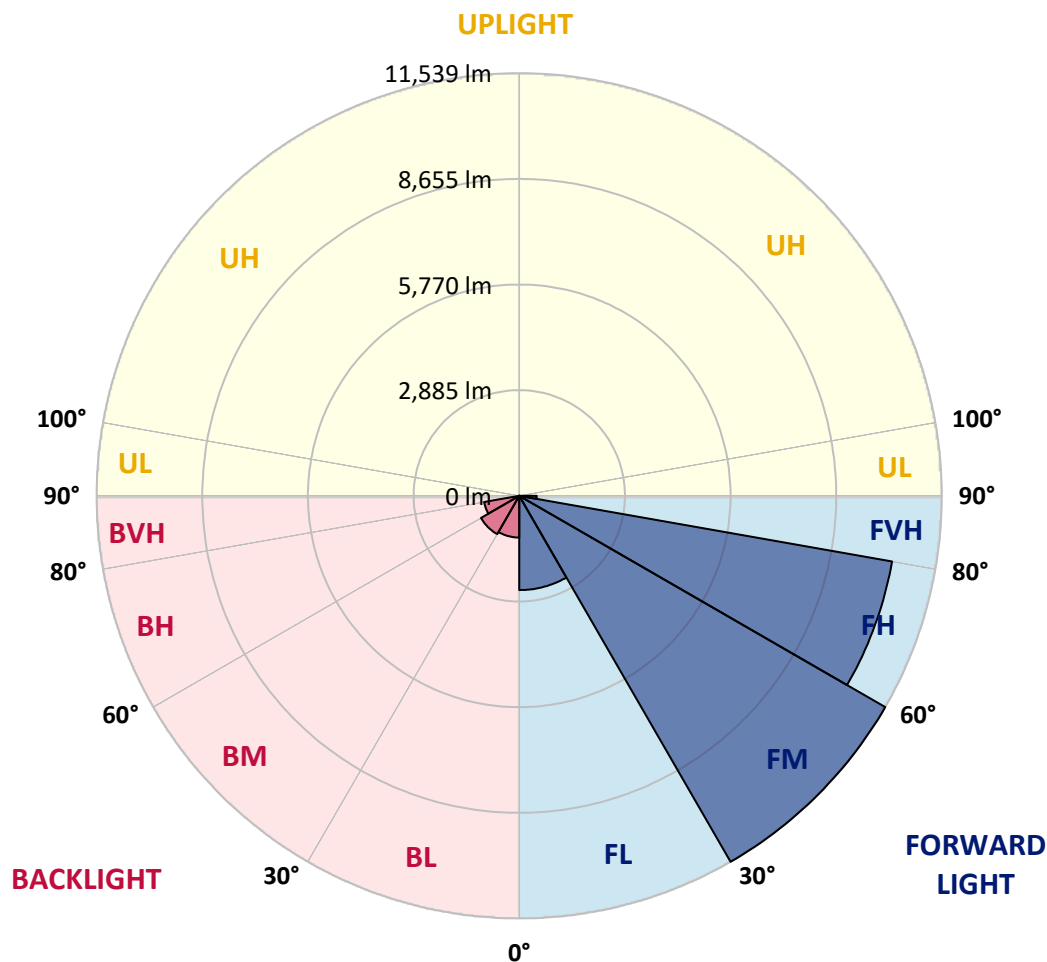
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.9	9.1			
FM	(30°-60°)	11539.3	40.8			
FH	(60°-80°)	10336.1	36.6			G4/12000
FVH	(80°-90°)	475.8	1.7			G3/500
BL	(0°-30°)	1139.7	4.0	B3/2500		
BM	(30°-60°)	1207.0	4.3	B2/2500		
BH	(60°-80°)	973.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	11.0	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6
2.5°	7204.0	7186.0	7200.4	7231.5	7247.0	7247.0	7259.0	7244.6	7249.4	7214.7	7164.5
5°	6753.2	6725.7	6765.2	6852.4	6960.0	7052.1	7188.4	7260.2	7267.3	7268.5	7209.9
7.5°	6267.7	6242.6	6301.2	6404.1	6542.8	6713.7	6951.7	7159.7	7171.7	7284.1	7241.0
10°	5873.2	5855.2	5923.4	6033.4	6196.0	6387.3	6679.1	6968.4	7003.1	7251.8	7236.2
12.5°	5559.9	5545.6	5610.1	5736.9	5903.1	6114.7	6419.6	6755.6	6802.2	7178.9	7212.3
15°	5331.5	5329.1	5382.9	5504.9	5689.0	5886.3	6198.4	6558.3	6612.1	7099.9	7208.7
17.5°	5212.0	5215.6	5255.0	5359.0	5516.9	5713.0	6011.9	6392.1	6450.7	7029.4	7226.7
20°	5200.0	5203.6	5225.1	5283.7	5411.6	5585.0	5860.0	6252.2	6313.2	6976.8	7255.4
22.5°	5305.2	5302.8	5308.8	5302.8	5374.6	5506.1	5759.6	6144.6	6215.1	6942.1	7278.1
25°	5507.3	5503.7	5501.3	5457.1	5409.3	5479.8	5717.7	6083.6	6150.6	6917.0	7291.2
27.5°	5788.3	5785.9	5782.3	5709.4	5565.9	5521.6	5722.5	6060.9	6117.1	6896.7	7288.9
30°	6157.7	6174.5	6169.7	6068.1	5844.5	5649.6	5772.7	6048.9	6098.0	6857.2	7263.7
32.5°	6591.8	6625.3	6651.6	6542.8	6263.0	5903.1	5888.7	6062.1	6098.0	6827.3	7218.3
35°	7042.5	7085.6	7182.4	7144.2	6775.9	6284.5	6088.4	6141.0	6170.9	6844.1	7196.8
37.5°	7486.1	7537.6	7748.0	7859.2	7447.9	6789.1	6399.3	6335.9	6351.4	6945.7	7220.7
40°	8001.5	8079.2	8398.4	8577.8	8250.2	7464.6	6864.4	6670.7	6676.7	7169.3	7331.9
42.5°	8678.2	8758.3	9103.9	9384.9	9154.1	8318.3	7495.7	7182.4	7176.5	7587.8	7593.8
45°	9503.3	9587.0	9944.5	10256.5	10152.5	9329.9	8304.0	7929.7	7922.6	8247.8	8090.0
47.5°	10438.3	10520.8	10840.0	11161.7	11274.1	10511.2	9333.5	8949.7	8932.9	9164.9	8856.4
50°	11240.6	11294.4	11588.5	12021.4	12528.3	11962.8	10614.0	10244.6	10226.6	10383.3	9981.5
52.5°	11532.3	11563.4	11862.3	12468.5	13733.6	13928.5	12296.4	11820.5	11807.3	11875.5	11479.7
55°	10941.7	10997.9	11364.9	12264.1	14386.4	16150.0	14419.9	13771.8	13672.6	13525.5	13046.1
57.5°	9332.3	9421.9	9816.5	11012.2	14081.5	17912.5	17540.6	15979.1	15833.2	14934.0	14319.4
60°	6992.3	7102.3	7429.9	8720.1	12454.2	18540.2	20950.7	18438.6	18109.8	16055.6	15490.0
62.5°	4798.3	4853.3	5075.7	5916.2	9172.1	17511.9	23803.6	21732.7	21132.4	17275.2	16756.2
65°	3664.8	3683.9	3774.8	4064.1	5461.9	14225.0	24938.3	26078.9	25353.2	18733.9	18070.3
67.5°	2953.3	2937.8	3063.3	3477.0	3657.6	8678.2	23614.7	30190.9	29851.3	20684.0	19392.7
69°	2604.2	2582.7	2710.6	3191.3	3435.2	5736.9	21110.9	31124.7	31146.2	21713.5	19483.6
70°	2343.5	2357.9	2484.6	3021.5	3359.9	4502.9	18719.5	30886.8	31056.6	22098.5	18938.4
72.5°	1565.1	1603.4	1858.1	2508.5	3230.7	3407.7	11302.8	26504.6	27157.5	21231.7	16248.1
75°	882.4	911.1	1213.6	1891.6	3044.2	3245.1	5970.0	19526.6	20157.9	17754.6	12529.5
77.5°	432.8	448.4	686.3	1220.8	2545.6	3092.0	3386.2	13263.7	13984.7	11588.5	7086.8
80°	182.9	191.3	343.2	753.3	1819.8	2950.9	2514.5	8162.9	8252.6	4540.0	1888.0
82.5°	70.5	72.9	144.7	469.9	1156.2	2300.5	2103.2	3870.4	3777.1	854.9	430.4
85°	8.4	9.6	52.6	282.2	643.3	1183.7	1708.6	1668.0	1543.6	169.8	221.2
87.5°	0.0	0.0	3.6	86.1	191.3	554.8	888.4	692.3	624.1	55.0	114.8
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°	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6	7140.6
2.5°	7122.7	7110.7	7046.1	6952.9	6864.4	6754.4	6649.2	6585.8	6535.6	6502.1	6541.6
5°	7141.8	7089.2	6893.1	6642.0	6395.7	6118.3	5860.0	5641.2	5555.1	5459.5	5502.5
7.5°	7135.8	7036.6	6683.8	6236.7	5784.7	5317.2	4874.8	4534.0	4357.1	4183.7	4227.9
10°	7105.9	6938.5	6404.1	5741.6	5064.9	4392.9	3765.2	3288.1	3021.5	2780.0	2814.6
12.5°	7040.2	6807.0	6074.0	5174.9	4269.8	3383.8	2648.4	2037.4	1709.8	1565.1	1583.1
15°	7000.7	6679.1	5724.9	4601.0	3420.8	2356.7	1618.9	1204.0	1054.6	1006.8	1012.7
17.5°	6981.6	6555.9	5363.8	3944.5	2552.8	1500.6	1046.2	923.1	890.8	882.4	884.8
20°	6962.4	6431.6	4992.0	3295.3	1758.8	1009.2	859.7	823.8	811.9	801.1	803.5
22.5°	6930.2	6312.0	4592.6	2637.7	1186.1	819.0	774.8	740.1	715.0	701.9	704.3
25°	6890.7	6186.4	4184.9	1964.5	865.7	730.6	688.7	639.7	609.8	585.9	587.1
27.5°	6827.3	6032.2	3764.0	1430.0	727.0	654.0	597.8	544.0	493.8	466.3	466.3
30°	6738.8	5857.6	3296.5	1023.5	651.6	578.7	510.6	443.6	389.8	364.7	362.3
32.5°	6640.8	5675.9	2824.2	776.0	591.9	508.2	430.4	359.9	312.1	291.7	290.5
35°	6557.1	5479.8	2353.1	650.4	532.1	440.0	355.1	295.3	257.1	240.3	239.1
37.5°	6503.3	5283.7	1894.0	581.1	478.3	376.6	297.7	243.9	216.4	203.3	202.1
40°	6494.9	5137.8	1474.3	528.5	428.1	320.4	248.7	206.9	181.7	167.4	166.2
42.5°	6603.7	5054.1	1131.1	484.2	376.6	271.4	211.6	177.0	150.7	136.3	135.1
45°	6889.5	5080.4	870.5	444.8	325.2	229.6	179.4	147.1	123.2	112.4	110.0
47.5°	7410.8	5262.2	692.3	405.3	276.2	194.9	153.0	122.0	101.6	90.9	89.7
50°	8338.7	5689.0	578.7	362.3	230.8	166.2	126.7	99.2	82.5	72.9	71.7
52.5°	9570.2	6449.5	516.5	320.4	191.3	141.1	104.0	78.9	64.6	57.4	56.2
55°	10928.5	7370.2	475.9	275.0	156.6	117.2	82.5	62.2	50.2	44.2	41.8
57.5°	12254.5	8167.7	437.6	230.8	130.3	95.7	65.8	49.0	39.5	33.5	32.3
60°	13472.9	8900.6	393.4	185.3	106.4	75.3	51.4	38.3	31.1	25.1	25.1
62.5°	14777.4	9467.4	332.4	144.7	87.3	57.4	41.8	34.7	25.1	21.5	20.3
65°	16159.6	9888.3	260.7	112.4	68.2	43.0	34.7	35.9	20.3	15.5	14.3
67.5°	17180.7	9804.6	192.5	88.5	52.6	33.5	33.5	38.3	17.9	12.0	10.8
69°	16955.9	9124.2	161.4	76.5	45.4	28.7	31.1	38.3	16.7	10.8	9.6
70°	16304.3	8370.9	142.3	68.2	40.7	26.3	29.9	37.1	15.5	10.8	9.6
72.5°	13578.1	6304.8	111.2	51.4	32.3	21.5	25.1	32.3	15.5	10.8	8.4
75°	10213.5	4035.4	84.9	37.1	23.9	16.7	19.1	23.9	15.5	9.6	8.4
77.5°	5557.5	1455.1	61.0	25.1	16.7	13.2	13.2	17.9	14.3	7.2	4.8
80°	1428.8	365.9	38.3	16.7	13.2	9.6	8.4	12.0	8.4	1.2	0.0
82.5°	352.7	82.5	20.3	12.0	9.6	3.6	3.6	6.0	3.6	0.0	0.0
85°	193.7	40.7	13.2	8.4	4.8	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	99.2	12.0	3.6	2.4	1.2	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)