

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: P321527

Luminaire Tested: **GAN-SA3C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13889 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

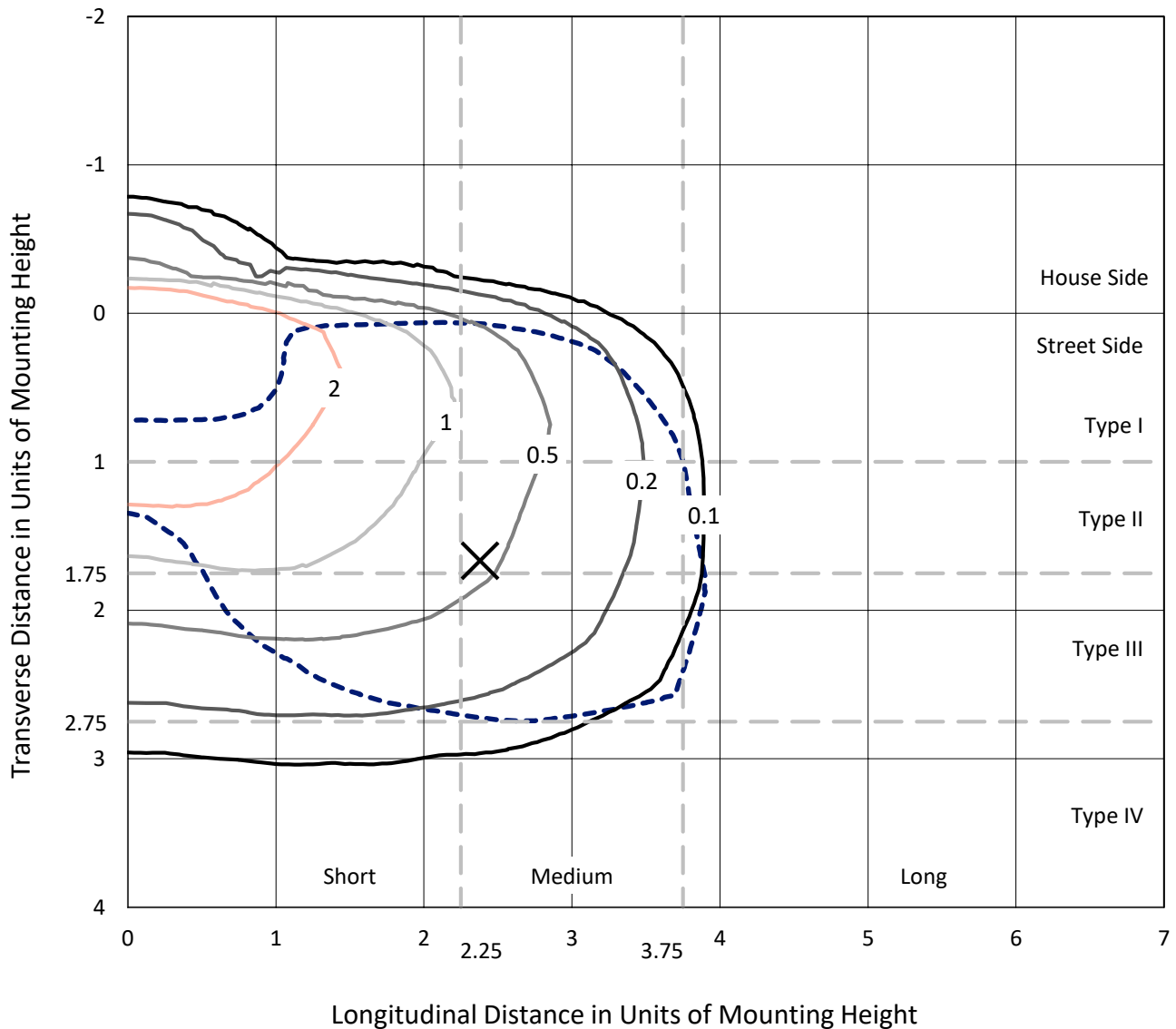
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

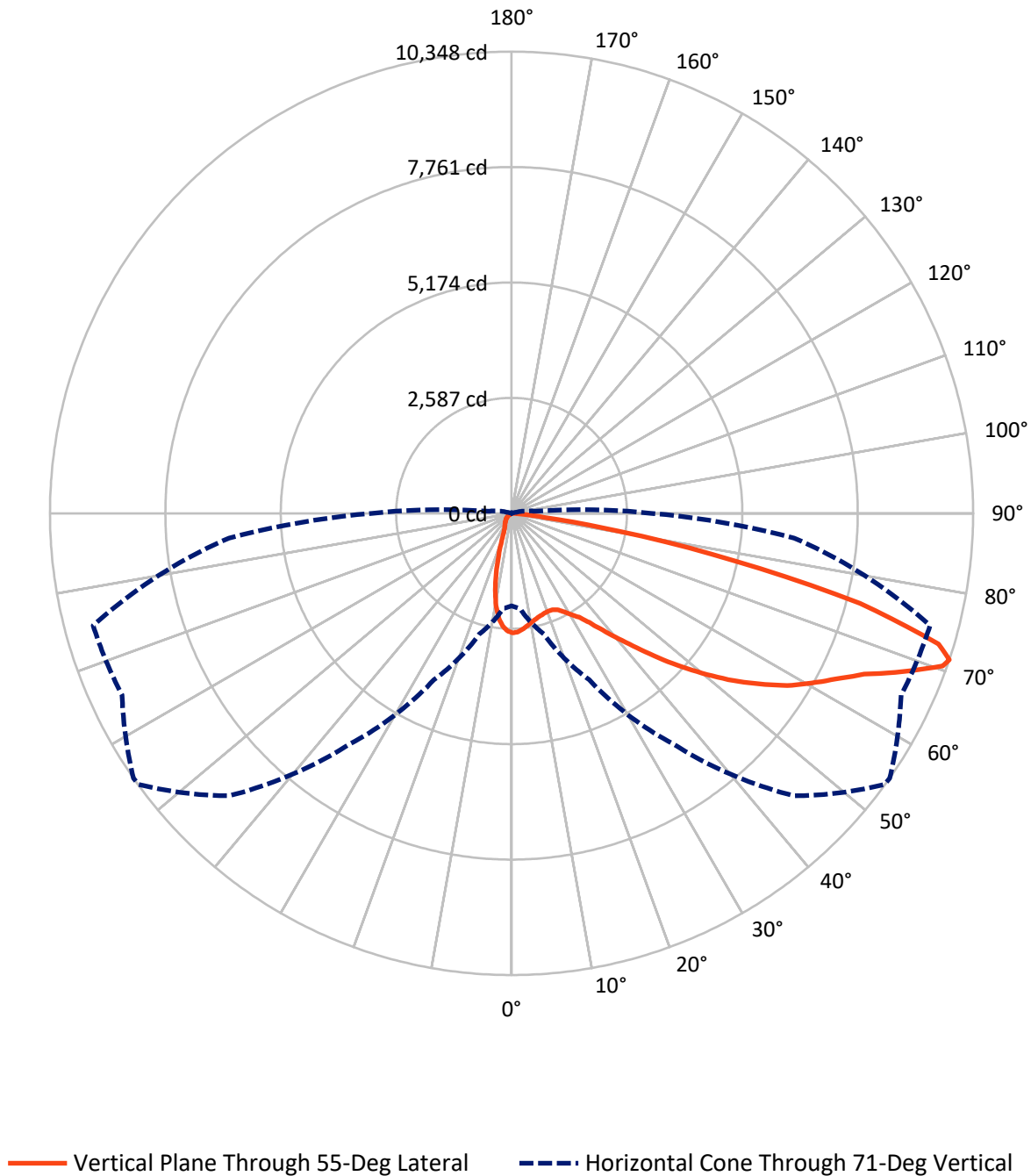
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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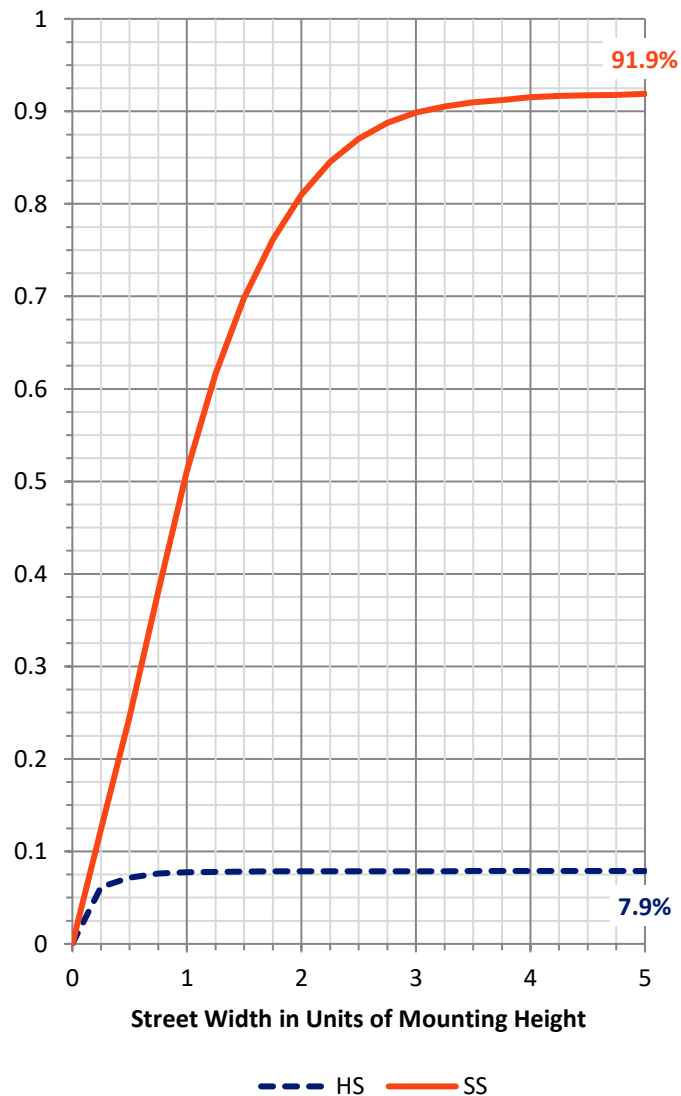
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.6	0.0	1099.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	12789.4	0.0	12789.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	13889.0	0.0	13889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.6
10°-20°	515.6	3.7
20°-30°	828.6	6.0
30°-40°	1407.8	10.1
40°-50°	2185.1	15.7
50°-60°	2937.7	21.2
60°-70°	3593.8	25.9
70°-80°	2101.2	15.1
80°-90°	90.8	0.7
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°	13889.0	100.0
0°-180°	13889.0	100.0

Coefficient of Utilization



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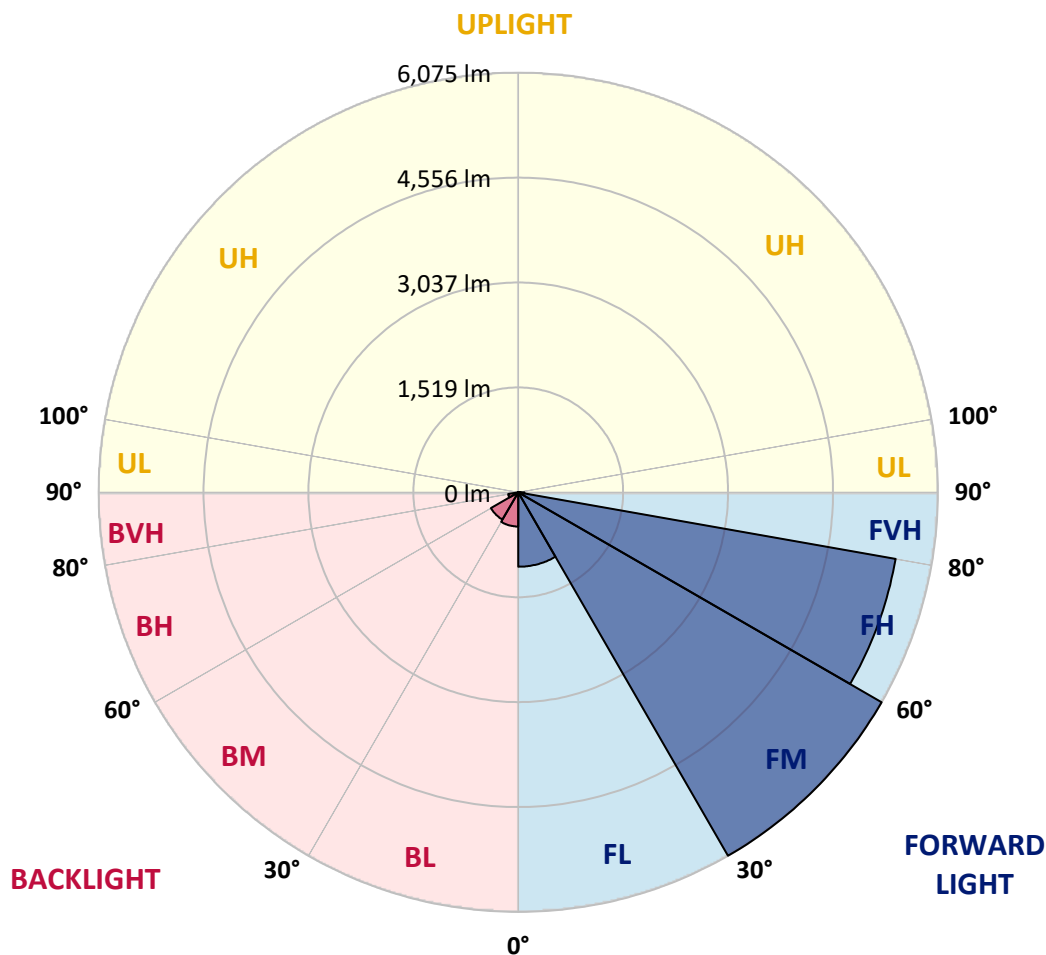
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.6	7.8			
FM	(30°-60°)	6074.6	43.7			
FH	(60°-80°)	5547.7	39.9			G3/7500
FVH	(80°-90°)	89.4	0.6			G1/100
BL	(0°-30°)	494.9	3.6	B1/500		
BM	(30°-60°)	455.9	3.3	B1/1000		
BH	(60°-80°)	147.3	1.1	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	2600.0	2603.1	2614.3	2619.3	2631.1	2651.1	2661.1	2661.7	2677.9	2684.2	2689.1
5°	2416.0	2434.7	2453.4	2473.4	2509.5	2557.6	2605.0	2609.3	2661.7	2700.4	2721.0
7.5°	2257.6	2274.4	2296.9	2328.7	2379.8	2455.3	2534.5	2543.8	2643.0	2730.9	2777.1
10°	2094.8	2108.5	2141.0	2187.7	2258.2	2359.2	2465.9	2481.5	2626.2	2772.1	2853.2
12.5°	1920.8	1928.9	1968.2	2035.6	2139.1	2267.6	2407.9	2428.5	2615.6	2819.5	2943.0
15°	1788.6	1792.3	1829.8	1899.6	2018.1	2185.2	2363.0	2387.9	2618.1	2876.2	3040.9
17.5°	1754.9	1756.8	1776.8	1824.8	1929.5	2111.7	2327.4	2358.0	2625.5	2931.7	3139.4
20°	1891.5	1878.4	1857.8	1850.3	1895.2	2067.4	2306.2	2340.5	2635.5	2981.0	3228.0
22.5°	2266.3	2227.7	2142.2	2028.1	1958.9	2070.5	2311.8	2346.1	2667.3	3041.5	3330.2
25°	2822.6	2769.0	2623.7	2399.2	2183.4	2160.3	2358.6	2393.5	2729.1	3113.8	3428.2
27.5°	3455.6	3402.6	3224.9	2904.3	2536.4	2338.0	2465.9	2498.3	2820.7	3178.1	3503.0
30°	4061.8	4046.8	3837.3	3473.1	2980.4	2626.2	2604.3	2631.8	2888.7	3216.7	3562.2
32.5°	4575.7	4552.0	4383.6	4029.4	3488.7	2972.3	2767.1	2775.2	2939.8	3266.6	3639.6
35°	5052.1	5022.8	4875.0	4540.1	4010.0	3395.1	3017.8	3006.0	3051.5	3367.0	3751.8
37.5°	5468.1	5494.9	5330.9	5012.2	4477.8	3834.8	3355.8	3320.3	3226.1	3530.4	3914.6
40°	5816.1	5816.1	5730.6	5465.0	4982.9	4289.4	3738.1	3691.3	3488.7	3782.4	4121.0
42.5°	5941.4	5968.3	6000.1	5849.8	5435.0	4762.1	4164.1	4115.4	3858.5	4139.7	4381.7
45°	5948.9	5991.3	6154.1	6153.5	5843.5	5231.7	4644.3	4621.2	4332.4	4598.7	4704.8
47.5°	5843.5	5896.5	6164.7	6316.9	6167.2	5668.9	5169.4	5140.7	4889.4	5161.3	5042.8
50°	5680.8	5739.4	6051.2	6381.1	6387.3	6049.3	5722.5	5679.5	5502.4	5804.2	5392.0
52.5°	5389.5	5503.0	5949.5	6396.1	6532.0	6378.0	6248.9	6230.2	6188.4	6423.5	5670.2
55°	4766.5	4892.5	5694.5	6401.1	6666.1	6669.2	6742.2	6747.2	6831.4	7002.3	5877.2
57.5°	4472.1	4543.2	5249.2	6424.8	6865.1	6999.8	7244.9	7283.5	7413.9	7551.7	6113.6
60°	4286.9	4371.1	5029.7	6392.3	7177.5	7433.2	7710.7	7723.8	7863.5	8118.6	6433.5
62.5°	4139.1	4222.1	4891.2	6267.6	7528.6	7954.6	8166.0	8167.2	8272.0	8794.0	6797.1
65°	3774.3	3844.1	4611.2	6127.3	7760.6	8470.3	8694.8	8686.7	8772.2	9506.2	7219.3
67.5°	3246.7	3300.3	4039.3	5595.3	7673.3	8939.3	9493.1	9466.3	9362.7	10121.7	7385.2
70°	2510.2	2529.5	3183.7	4663.0	6855.1	9119.5	10264.5	10250.8	9725.1	10011.3	6777.1
71°	2074.9	2138.5	2805.8	4115.4	6306.9	8953.0	10339.4	10347.5	9634.0	9710.7	6358.7
72.5°	1204.9	1259.1	2033.7	3160.6	5354.6	8258.3	9951.5	10010.1	9208.7	8832.6	5431.3
75°	258.2	276.3	754.0	1529.8	2945.5	5788.0	7854.8	8063.7	7505.5	6008.8	3273.5
77.5°	179.6	194.0	323.0	694.1	973.5	2860.0	4879.4	5115.1	4484.0	2258.2	1047.7
80°	142.2	158.4	252.0	343.0	263.2	922.4	2285.6	2429.7	1495.5	503.9	176.5
82.5°	79.2	94.2	196.4	185.2	101.0	175.2	639.9	723.4	299.3	101.7	41.8
85°	23.1	28.1	126.6	134.7	43.0	33.7	109.1	135.3	56.8	26.8	18.7
87.5°	0.0	0.0	61.1	51.8	12.5	5.0	10.0	11.2	11.2	11.2	12.5
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°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	2689.1	2693.5	2677.9	2657.3	2635.5	2608.7	2580.6	2558.8	2558.2	2547.6	2537.0
5°	2722.2	2719.7	2676.7	2611.2	2533.9	2453.4	2376.7	2290.0	2261.3	2225.8	2213.9
7.5°	2783.3	2765.9	2674.8	2531.4	2361.7	2193.3	2019.4	1844.1	1769.3	1701.9	1690.1
10°	2860.0	2827.0	2663.0	2411.6	2100.4	1789.9	1527.3	1289.1	1184.3	1103.8	1100.1
12.5°	2939.8	2889.3	2629.9	2230.8	1758.0	1321.5	1019.0	784.5	697.2	641.1	646.1
15°	3023.4	2948.0	2558.8	1986.9	1368.3	896.8	626.1	488.3	453.4	439.0	442.8
17.5°	3108.9	2988.5	2459.6	1693.2	983.5	578.7	433.4	394.8	394.8	397.9	399.1
20°	3183.1	3010.3	2313.7	1363.9	666.7	421.6	379.2	373.6	376.7	381.7	382.3
22.5°	3256.7	3011.6	2123.5	1030.3	466.5	369.2	361.1	358.6	360.5	366.1	366.7
25°	3316.5	2996.6	1885.3	732.8	372.3	348.0	344.3	343.0	344.3	351.1	351.1
27.5°	3340.9	2942.3	1594.7	515.1	333.6	324.3	323.0	324.3	326.2	331.2	331.8
30°	3343.3	2847.6	1277.8	372.9	302.5	292.5	295.0	299.3	297.5	296.2	297.5
32.5°	3349.6	2737.8	969.1	306.8	276.3	260.7	257.6	257.6	250.1	245.7	243.2
35°	3370.2	2608.7	702.8	275.6	249.5	231.4	219.5	205.8	191.5	184.0	182.1
37.5°	3402.6	2473.4	503.3	255.1	225.8	205.2	182.7	158.4	137.8	132.2	132.2
40°	3461.8	2333.7	372.3	238.9	207.0	181.5	147.8	116.0	97.3	94.2	94.2
42.5°	3555.4	2186.5	296.9	224.5	190.8	157.2	112.9	84.2	70.5	68.6	68.0
45°	3652.7	2024.3	259.4	210.8	173.4	129.1	83.6	62.4	54.3	52.4	52.4
47.5°	3750.0	1851.6	241.3	197.7	156.5	100.4	62.4	49.3	45.5	45.5	46.1
50°	3832.3	1671.4	228.3	183.4	134.7	76.1	49.3	41.8	40.5	43.0	43.7
52.5°	3852.9	1494.2	212.0	165.3	107.9	58.0	40.5	36.8	36.8	36.8	36.8
55°	3840.4	1357.0	190.8	142.8	79.8	46.1	34.9	32.4	31.8	31.8	31.8
57.5°	3882.8	1276.0	152.8	111.0	57.4	37.4	30.6	28.7	27.4	26.8	26.8
60°	3968.2	1223.0	109.1	79.8	43.0	31.2	26.2	24.3	22.5	21.2	21.2
62.5°	4081.7	1176.8	81.1	59.2	33.1	24.9	21.8	20.0	17.5	16.2	16.2
65°	4169.0	1094.5	61.7	44.3	24.9	20.0	16.8	16.2	12.5	11.2	10.6
67.5°	4035.6	913.6	49.9	32.4	18.7	15.6	13.1	12.5	7.5	6.2	6.2
70°	3461.2	636.1	39.9	23.7	13.7	12.5	10.6	8.1	5.6	5.0	5.0
71°	3138.8	531.3	36.2	20.0	11.8	11.8	10.0	6.9	5.0	4.4	4.4
72.5°	2607.4	377.3	30.6	15.6	10.6	12.5	10.6	6.2	5.0	4.4	3.7
75°	1513.6	157.8	21.2	10.6	8.1	15.0	13.7	5.6	3.7	3.1	3.1
77.5°	455.3	58.0	11.8	6.9	6.2	13.1	15.6	5.0	1.9	0.6	0.6
80°	82.9	24.9	7.5	4.4	4.4	8.1	11.8	2.5	0.0	0.0	0.0
82.5°	29.3	12.5	4.4	2.5	1.9	3.7	5.6	0.0	0.0	0.0	0.0
85°	16.8	8.7	2.5	1.2	0.0	0.6	1.2	0.0	0.0	0.0	0.0
87.5°	11.2	2.5	0.0	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)