

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: P318337

Luminaire Tested: **GAN-SA3D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19814 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

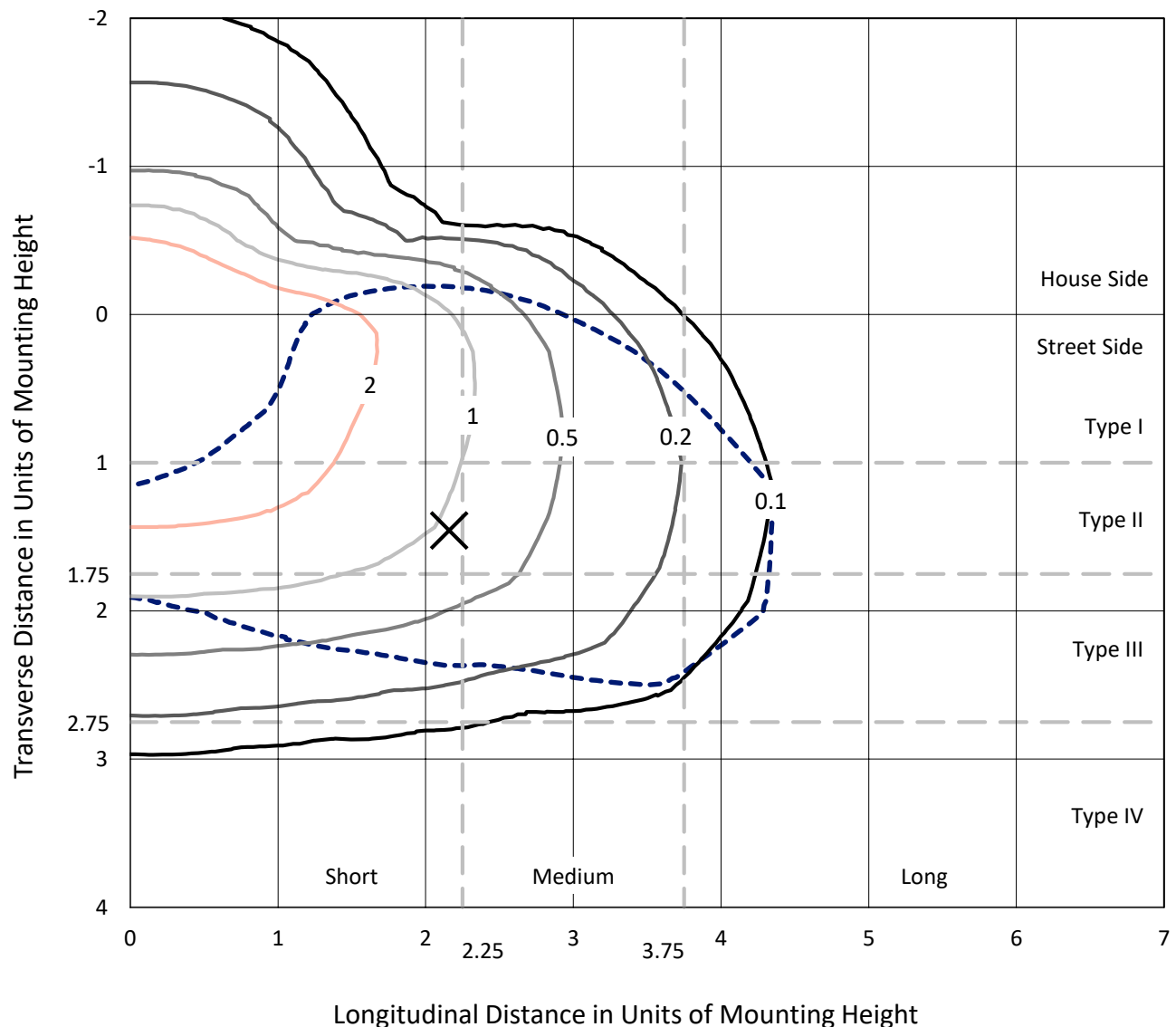
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

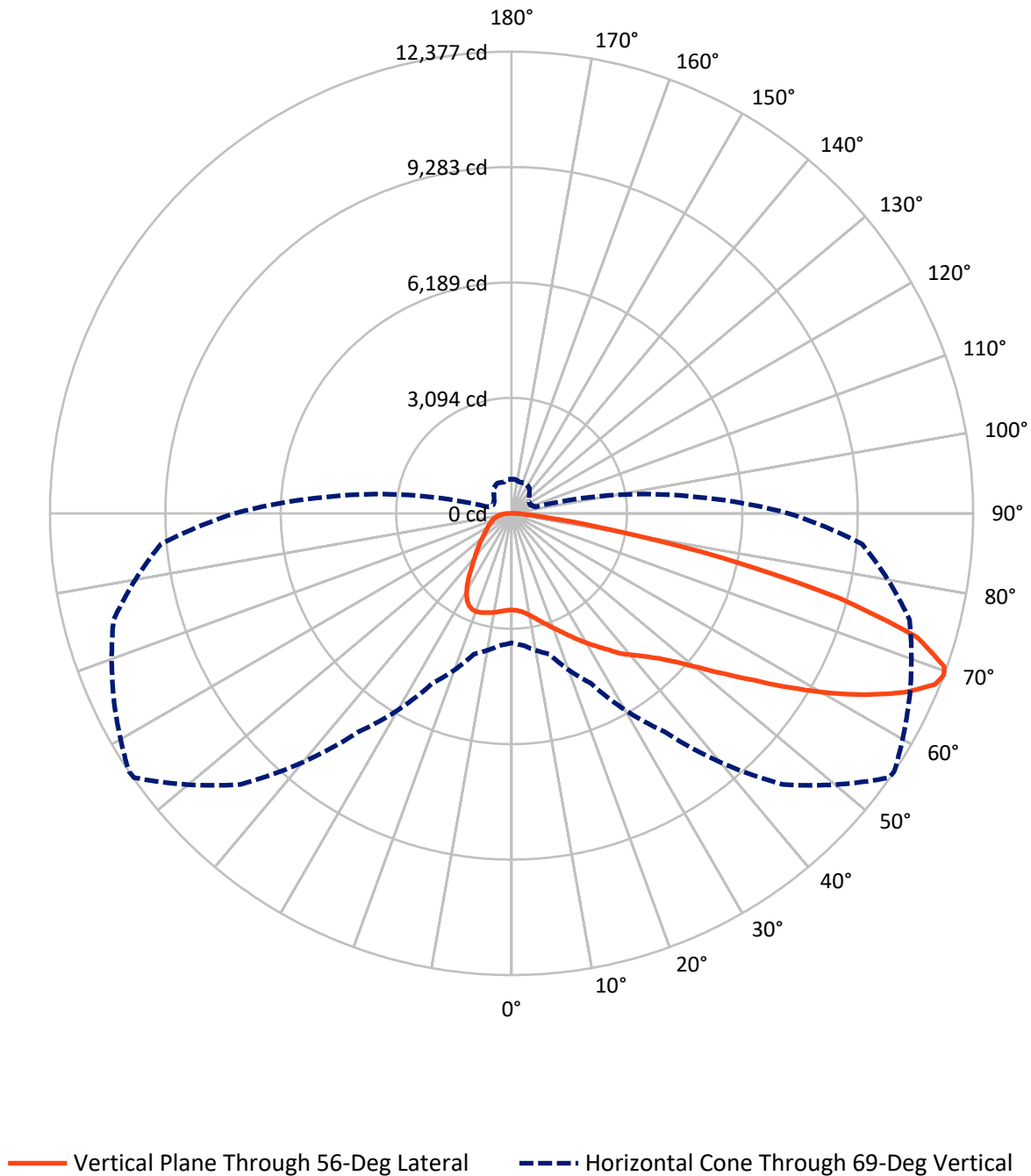
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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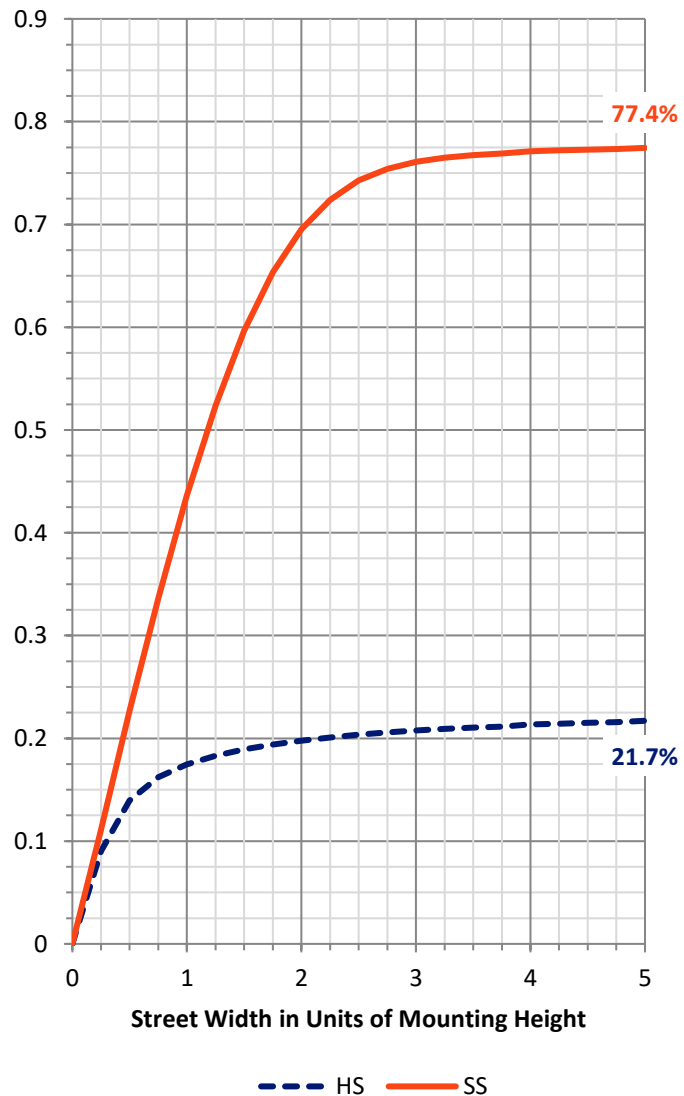
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4412.5	0.0	4412.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15401.4	0.0	15401.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	19814.0	0.0	19814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.3
10°-20°	818.1	4.1
20°-30°	1428.1	7.2
30°-40°	2051.4	10.4
40°-50°	2839.0	14.3
50°-60°	4159.6	21.0
60°-70°	5071.3	25.6
70°-80°	2803.7	14.2
80°-90°	388.3	2.0
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°	19814.0	100.0
0°-180°	19814.0	100.0

Coefficient of Utilization



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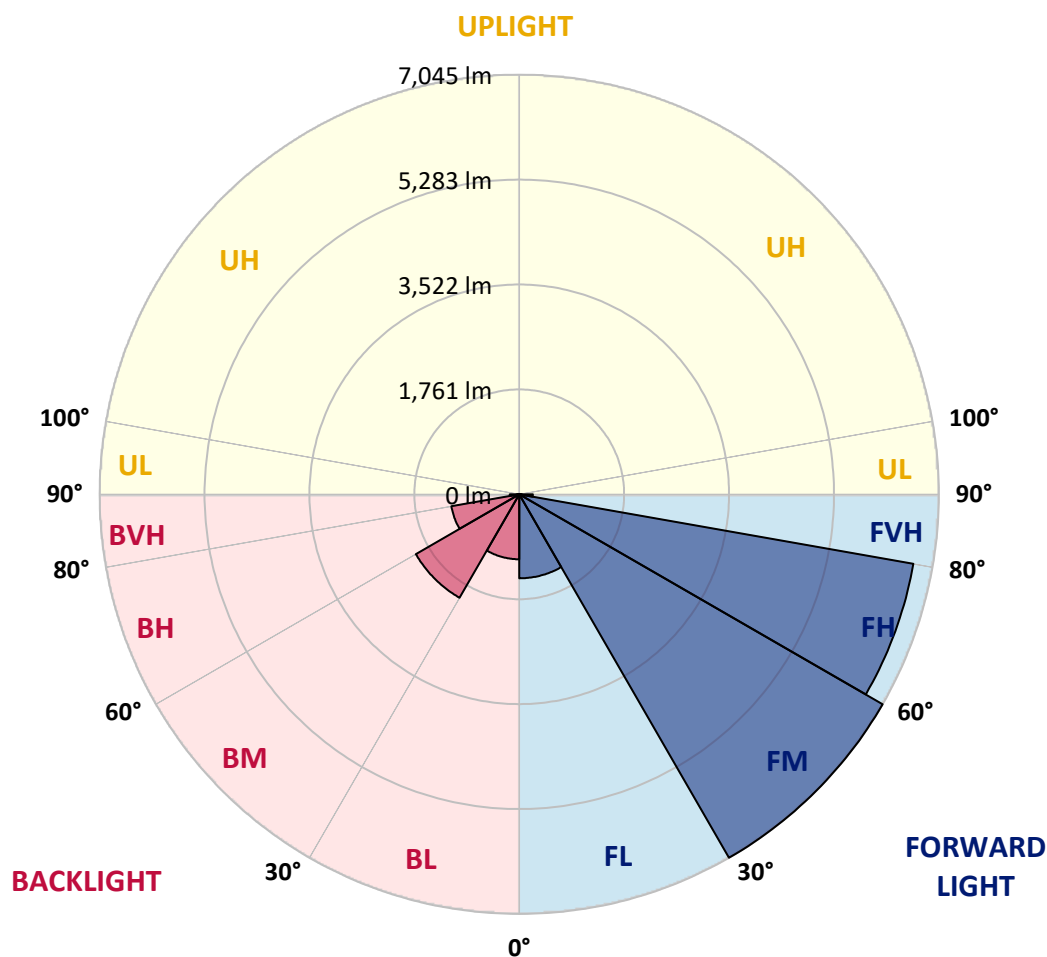
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1410.2	7.1			
FM	(30°-60°)	7044.6	35.6			
FH	(60°-80°)	6717.9	33.9			G3/7500
FVH	(80°-90°)	228.7	1.2			G3/500
BL	(0°-30°)	1090.4	5.5	B3/2500		
BM	(30°-60°)	2005.4	10.1	B2/2500		
BH	(60°-80°)	1157.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	159.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4
2.5°	2606.8	2609.5	2607.4	2612.9	2606.8	2610.9	2607.4	2607.4	2605.4	2599.3	2592.4
5°	2647.7	2653.2	2649.8	2655.2	2647.7	2649.1	2642.9	2642.9	2636.8	2623.8	2610.2
7.5°	2711.9	2718.0	2715.3	2720.8	2710.5	2710.5	2702.3	2701.6	2689.4	2668.2	2652.5
10°	2788.3	2796.5	2793.8	2802.0	2793.8	2796.5	2788.3	2788.3	2771.9	2741.9	2722.1
12.5°	2899.6	2909.8	2902.3	2901.6	2898.2	2903.7	2896.9	2895.5	2880.5	2839.5	2812.2
15°	3048.4	3059.3	3043.6	3042.2	3023.1	3021.1	3021.1	3019.0	3009.5	2960.3	2915.3
17.5°	3219.7	3223.1	3209.5	3187.6	3163.1	3147.4	3145.3	3150.8	3150.8	3093.4	3021.8
20°	3387.6	3393.8	3382.9	3358.3	3326.9	3303.7	3287.3	3298.2	3297.5	3229.3	3127.6
22.5°	3570.6	3584.9	3568.5	3537.1	3500.3	3474.3	3445.7	3455.2	3455.9	3371.9	3231.3
25°	3807.4	3794.4	3784.2	3739.8	3687.3	3660.7	3634.0	3643.6	3640.9	3525.5	3338.5
27.5°	4017.0	4019.7	4006.0	3959.0	3898.2	3839.5	3838.1	3844.3	3834.0	3685.2	3439.5
30°	4260.6	4262.0	4242.9	4200.6	4134.4	4058.6	4040.9	4051.1	4029.3	3836.8	3546.0
32.5°	4503.0	4509.8	4488.6	4437.4	4384.2	4292.0	4256.6	4263.4	4208.8	3991.7	3655.9
35°	4715.2	4724.8	4718.0	4683.8	4625.8	4546.6	4504.3	4500.2	4432.7	4181.5	3801.3
37.5°	4931.6	4940.5	4933.0	4904.3	4881.1	4797.2	4774.6	4774.6	4657.2	4375.3	3986.3
40°	5154.1	5167.8	5158.9	5119.3	5099.5	5061.3	5007.4	4994.4	4867.5	4608.1	4288.0
42.5°	5361.0	5378.7	5414.2	5391.0	5350.7	5356.2	5247.7	5240.8	5148.0	4952.1	4666.8
45°	5654.5	5680.4	5740.5	5722.7	5714.5	5684.5	5555.5	5549.4	5513.9	5414.9	5137.1
47.5°	5974.6	6010.1	6118.6	6122.0	6210.1	6153.4	5978.0	5956.9	5965.0	5969.1	5711.1
50°	6269.5	6308.4	6486.5	6570.5	6778.0	6790.3	6509.7	6490.6	6522.7	6616.9	6380.1
52.5°	6505.0	6554.1	6776.6	7036.0	7391.6	7492.7	7164.3	7150.0	7173.9	7336.3	7136.3
55°	6677.7	6730.9	6973.2	7445.6	8013.5	8191.6	7917.9	7904.2	7919.3	8126.1	7958.9
57.5°	6717.9	6730.9	7082.4	7721.3	8538.4	8966.3	8840.1	8812.8	8739.0	8919.2	8866.7
60°	6528.9	6580.7	6992.3	7818.2	8944.5	9730.1	9803.9	9769.7	9562.9	9710.3	9668.0
62.5°	6145.2	6238.1	6655.8	7670.8	9103.5	10354.0	10749.2	10708.3	10352.0	10447.5	10244.1
65°	5518.6	5558.2	5997.1	7162.3	8901.5	10753.3	11592.2	11571.7	11123.3	10973.8	10350.6
67.5°	4397.8	4472.2	4844.9	6099.5	8074.9	10706.2	12244.1	12242.0	11627.0	11169.0	9973.1
69°	3474.3	3551.5	3906.4	5024.5	7145.2	10275.5	12353.3	12377.2	11769.0	11050.2	9433.9
70°	2769.9	2859.3	3103.0	4232.0	6320.0	9707.6	12262.5	12305.5	11741.7	10854.4	8936.3
72.5°	1178.8	1251.2	1424.5	2181.5	3851.8	7249.0	11212.0	11374.5	11109.0	9934.2	7385.5
75°	514.7	537.2	615.7	889.4	1709.9	3945.3	8783.4	9083.7	9498.8	8397.1	5501.6
77.5°	376.8	386.3	429.3	522.2	767.2	1490.1	5648.3	5823.1	6850.3	6110.4	3374.7
80°	291.5	298.3	331.7	383.6	501.0	602.7	2576.0	2726.2	3851.8	3138.5	1405.4
82.5°	232.1	236.9	260.1	282.6	346.1	365.2	855.3	948.8	1421.8	866.9	372.0
85°	215.7	221.2	229.3	206.1	221.8	214.3	370.0	387.0	429.3	340.6	155.6
87.5°	97.6	115.4	227.3	160.4	118.1	94.2	151.5	158.4	178.2	178.8	68.9
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°	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4	2590.4
2.5°	2596.5	2594.5	2597.9	2589.7	2599.9	2599.3	2595.8	2597.2	2604.0	2603.4	2604.0
5°	2612.2	2610.9	2615.0	2608.8	2621.1	2625.2	2625.9	2632.0	2639.5	2641.6	2641.6
7.5°	2651.8	2651.8	2653.9	2645.7	2653.9	2653.2	2649.8	2655.9	2663.4	2664.1	2663.4
10°	2720.1	2720.8	2717.3	2696.2	2689.4	2670.9	2653.9	2654.5	2664.1	2671.6	2673.7
12.5°	2806.1	2803.3	2788.3	2749.4	2720.8	2683.2	2665.5	2664.8	2674.3	2680.5	2682.5
15°	2904.4	2896.9	2858.0	2794.5	2744.0	2707.1	2678.4	2671.6	2666.1	2659.3	2660.0
17.5°	2997.2	2980.1	2915.3	2827.2	2774.0	2724.9	2669.6	2625.2	2594.5	2576.7	2571.3
20°	3091.4	3057.9	2964.4	2858.0	2790.4	2701.0	2594.5	2504.4	2448.4	2422.5	2417.7
22.5°	3177.4	3123.5	3010.2	2890.0	2777.4	2620.4	2453.2	2322.1	2244.3	2209.5	2212.2
25°	3261.4	3186.3	3057.9	2912.6	2711.9	2478.4	2256.6	2095.5	2005.4	1966.5	1965.1
27.5°	3335.1	3249.8	3109.8	2894.1	2589.7	2276.4	2023.8	1866.8	1791.8	1758.3	1752.9
30°	3419.7	3329.6	3178.8	2823.8	2410.9	2043.0	1796.5	1686.0	1632.7	1599.3	1593.1
32.5°	3522.8	3438.1	3235.4	2696.2	2182.2	1799.3	1619.1	1541.9	1493.5	1455.9	1449.1
35°	3673.0	3581.5	3249.8	2513.3	1931.0	1606.8	1488.7	1409.5	1344.0	1295.5	1290.8
37.5°	3861.3	3761.0	3217.0	2276.4	1687.3	1481.9	1380.2	1282.6	1197.2	1129.0	1118.1
40°	4133.0	3981.5	3126.2	2003.4	1507.8	1385.6	1274.4	1163.1	1057.3	977.5	961.8
42.5°	4459.3	4240.2	2987.0	1731.7	1376.1	1288.0	1169.3	1031.4	930.4	873.7	865.5
45°	4874.3	4509.1	2793.8	1494.2	1246.4	1190.4	1055.9	929.0	866.2	824.6	817.7
47.5°	5348.0	4810.8	2591.1	1301.0	1136.5	1099.0	965.2	883.3	833.4	800.7	794.5
50°	5930.2	5151.4	2376.1	1142.6	1025.9	989.1	922.2	858.0	818.4	793.2	787.0
52.5°	6586.9	5535.7	2221.1	1017.7	934.4	907.8	899.6	844.3	812.3	793.2	787.0
55°	7294.0	5926.8	2053.9	912.6	855.3	862.8	884.6	845.7	823.9	800.7	791.8
57.5°	8001.9	6330.9	1867.5	823.9	792.5	829.3	874.4	848.4	830.0	807.5	799.3
60°	8561.6	6586.9	1578.8	749.5	742.6	792.5	849.8	828.0	804.1	804.8	803.4
62.5°	8823.0	6573.2	1260.0	683.3	692.8	742.6	810.2	795.9	776.1	802.7	804.8
65°	8676.2	6245.6	980.9	623.2	639.6	690.8	769.3	780.2	787.0	838.2	845.0
67.5°	8060.6	5608.1	759.7	570.6	591.1	655.3	773.4	849.8	858.7	912.6	911.9
69°	7423.7	5010.1	660.1	543.3	567.2	664.1	826.6	894.2	860.7	918.1	909.9
70°	6889.9	4537.1	606.8	524.9	556.3	679.8	862.1	893.5	850.5	899.6	886.0
72.5°	5306.4	3264.1	514.7	490.8	519.4	650.5	872.3	873.7	826.6	836.2	813.0
75°	3639.5	2062.7	449.1	444.4	463.5	586.3	839.6	834.8	764.5	750.8	731.7
77.5°	2006.8	1047.8	381.6	400.0	413.0	519.4	763.1	756.3	698.3	669.6	662.8
80°	774.0	458.7	322.2	355.6	363.8	449.8	668.9	662.8	614.3	577.5	567.2
82.5°	292.1	240.3	266.2	307.8	305.1	371.3	566.5	563.1	516.0	462.1	445.7
85°	135.2	144.0	210.9	253.9	234.1	275.1	453.2	459.4	402.0	337.9	337.9
87.5°	57.3	80.5	149.5	191.8	157.7	185.7	332.4	317.4	291.5	202.0	189.8
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)