

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: P322179

Luminaire Tested: **GAN-SA5D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23633 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

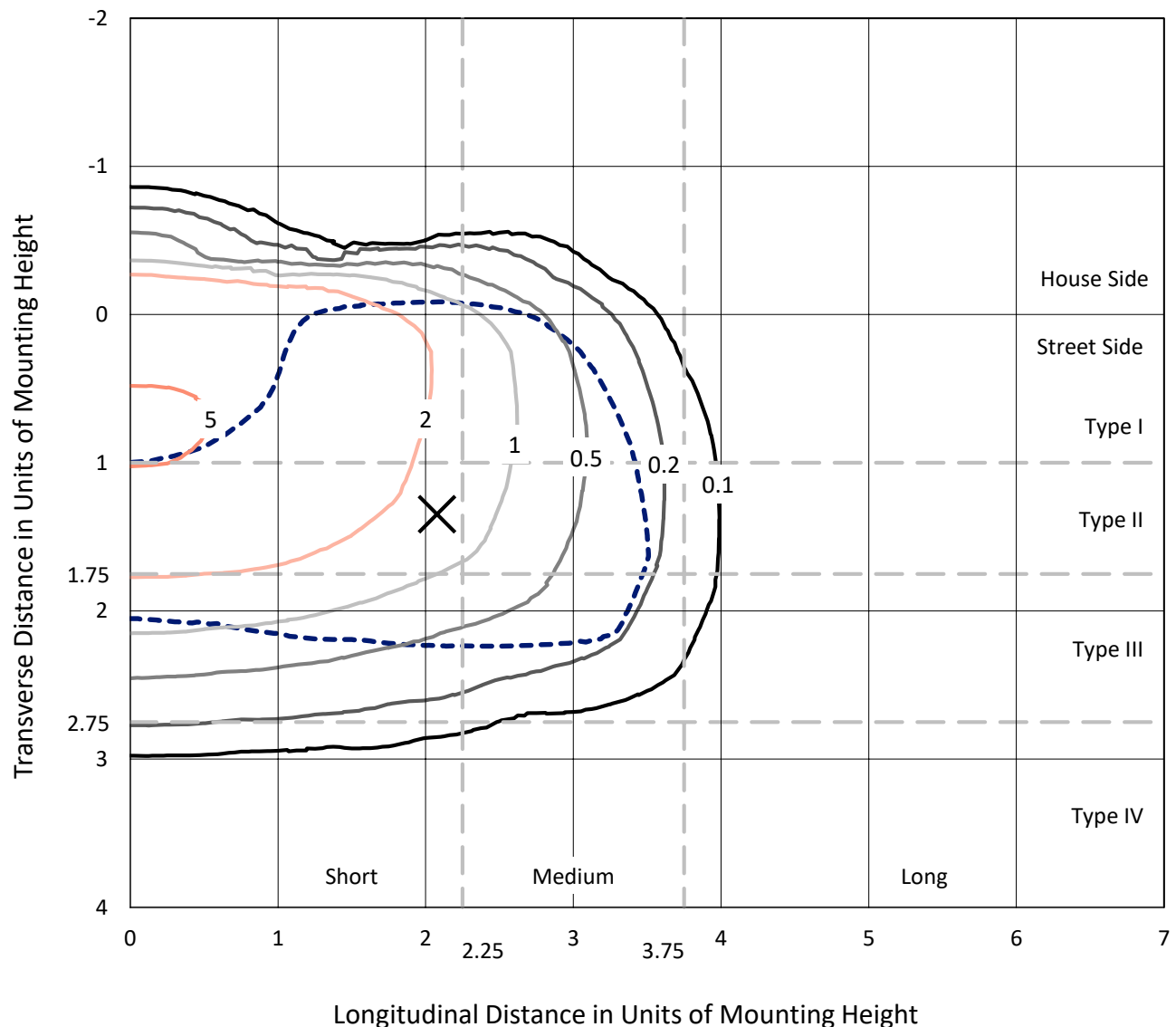


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Iso-Footcandle Lines of Horizontal Illumination

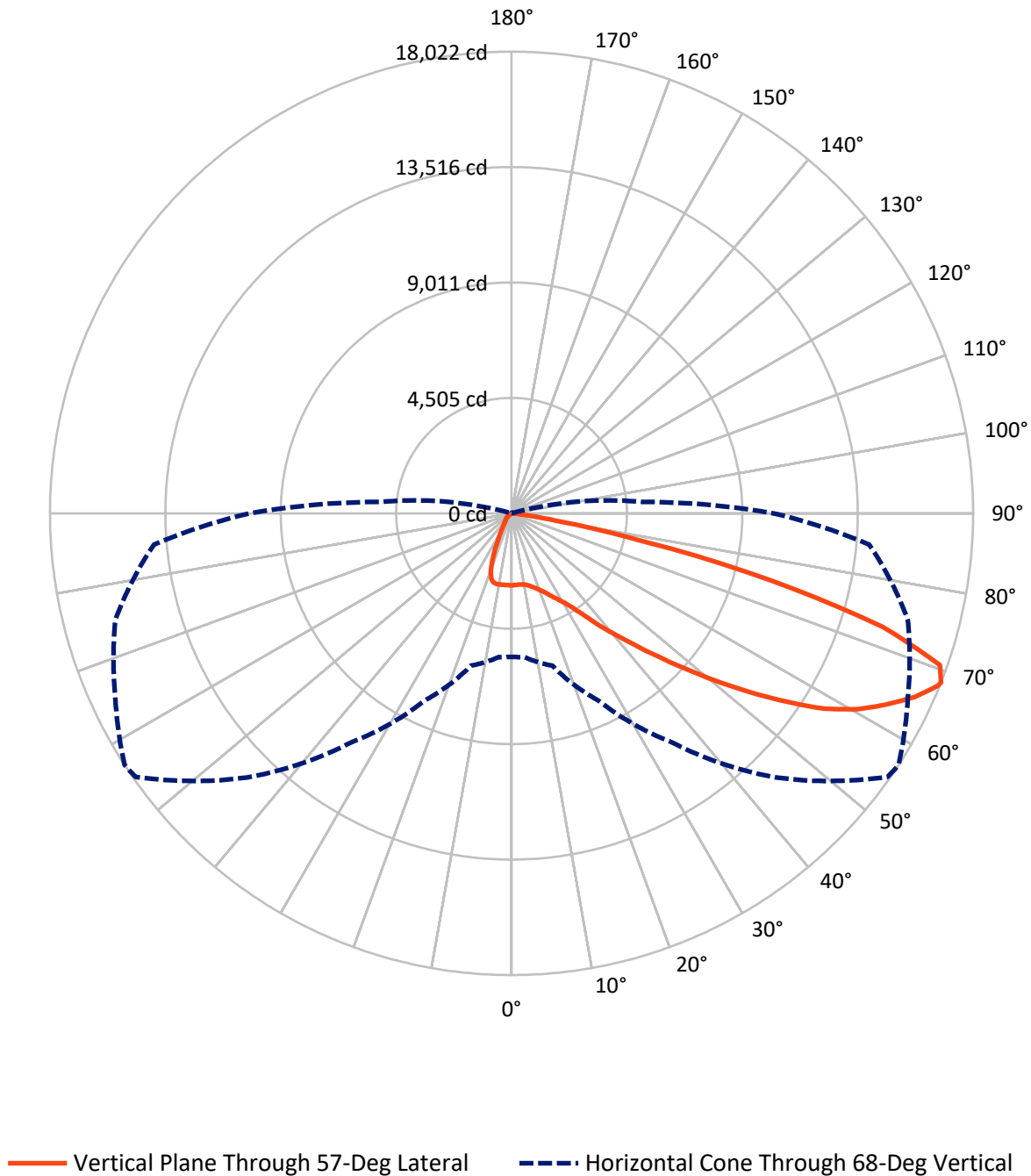
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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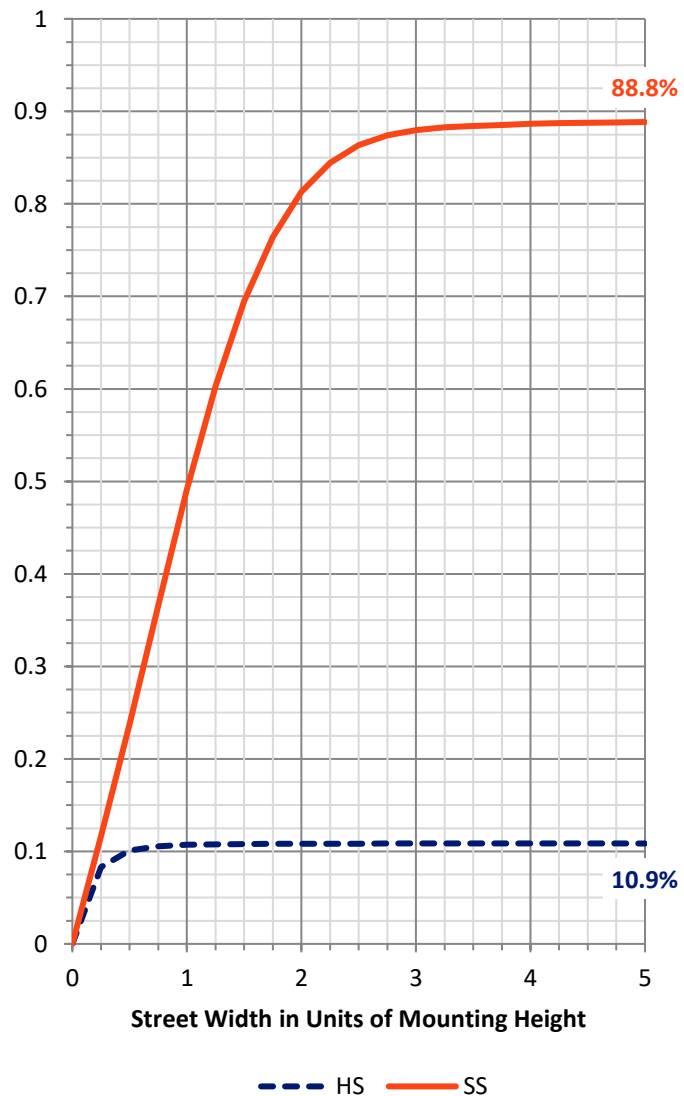
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.5	0.0	2591.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21041.5	0.0	21041.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	23633.0	0.0	23633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	1.1
10°-20°	728.3	3.1
20°-30°	1256.3	5.3
30°-40°	2168.3	9.2
40°-50°	3709.0	15.7
50°-60°	5934.1	25.1
60°-70°	6856.2	29.0
70°-80°	2619.8	11.1
80°-90°	98.2	0.4
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°	23633.0	100.0
0°-180°	23633.0	100.0

Coefficient of Utilization



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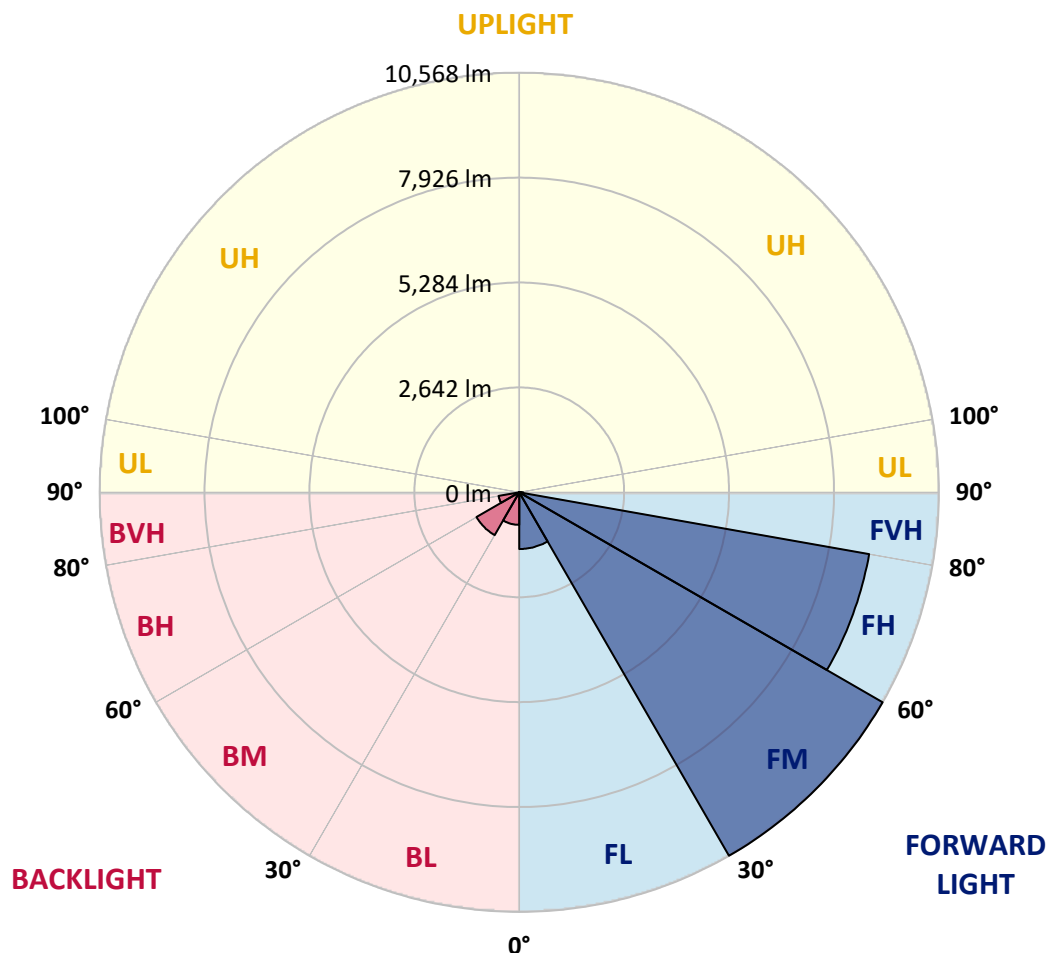
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.4	6.0			
FM	(30°-60°)	10568.5	44.7			
FH	(60°-80°)	8948.2	37.9			G4/12000
FVH	(80°-90°)	96.4	0.4			G1/100
BL	(0°-30°)	819.0	3.5	B2/1000		
BM	(30°-60°)	1242.9	5.3	B2/2500		
BH	(60°-80°)	527.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	2742.3	2754.6	2763.5	2769.1	2775.8	2790.3	2794.8	2801.5	2804.9	2804.9	2812.7
5°	2633.9	2647.3	2666.3	2681.9	2713.2	2753.5	2782.5	2793.7	2813.8	2831.7	2841.7
7.5°	2533.3	2549.0	2571.3	2608.2	2661.8	2726.6	2787.0	2802.6	2841.7	2879.7	2898.7
10°	2468.5	2480.8	2509.9	2562.4	2632.8	2723.3	2808.2	2827.2	2894.3	2958.0	2993.7
12.5°	2446.2	2457.3	2487.5	2546.7	2633.9	2740.1	2857.4	2885.3	2983.7	3076.4	3126.7
15°	2478.6	2480.8	2513.2	2569.1	2655.1	2781.4	2939.0	2972.5	3096.5	3217.2	3279.8
17.5°	2603.7	2593.7	2610.4	2635.0	2703.2	2836.2	3025.0	3075.3	3240.7	3382.6	3441.8
20°	2916.6	2916.6	2878.6	2811.6	2812.7	2921.1	3141.2	3198.2	3400.5	3564.8	3618.4
22.5°	3451.9	3441.8	3365.8	3201.6	3050.7	3067.5	3283.2	3356.9	3592.7	3768.1	3786.0
25°	4095.6	4083.3	3965.9	3734.6	3473.1	3304.4	3475.4	3560.3	3821.8	3977.1	3940.2
27.5°	4777.2	4767.2	4650.9	4363.8	3991.6	3682.1	3704.4	3784.9	4055.3	4208.4	4091.1
30°	5437.7	5441.0	5325.9	5030.9	4609.6	4163.7	3995.0	4041.9	4282.2	4437.5	4269.9
32.5°	6065.7	6070.1	5970.7	5641.0	5247.7	4723.6	4397.3	4385.0	4545.9	4699.0	4506.8
35°	6625.5	6636.7	6568.5	6312.6	5895.8	5347.1	4919.1	4890.1	4920.3	5093.5	4870.0
37.5°	7165.3	7172.0	7120.6	6904.9	6556.2	6032.1	5578.5	5537.1	5472.3	5605.3	5349.4
40°	7756.4	7739.7	7680.4	7484.9	7185.4	6788.7	6286.9	6215.4	6102.6	6221.0	5979.6
42.5°	8306.2	8287.2	8297.3	8076.0	7823.5	7566.4	7112.8	6989.8	6923.9	7060.2	6752.9
45°	8993.5	8983.4	9016.9	8824.7	8620.2	8433.6	8059.3	7925.2	7896.1	8055.9	7688.3
47.5°	9671.8	9696.4	9800.3	9718.7	9636.0	9471.7	9061.6	9001.3	9019.2	9212.5	8675.0
50°	10237.2	10266.3	10551.2	10645.1	10764.7	10668.6	10257.3	10220.5	10290.9	10465.2	9736.6
52.5°	10646.2	10705.4	11059.7	11492.1	11928.0	11992.8	11582.7	11549.1	11644.1	11670.9	10556.8
55°	10930.1	10982.6	11383.8	12174.9	13062.2	13341.6	13086.8	12957.2	12939.3	12674.4	11419.5
57.5°	10980.3	10974.8	11551.4	12616.3	13951.7	14672.5	14511.6	14384.2	14017.7	13601.9	12408.5
60°	10696.5	10728.9	11398.3	12769.4	14510.5	15679.3	15691.6	15526.2	14955.2	14503.8	13367.3
62.5°	9822.6	9954.5	10630.6	12368.3	14503.8	16085.0	16556.6	16430.3	15747.5	15242.4	14339.5
65°	8405.7	8452.6	9097.4	10993.8	13523.7	15915.1	17335.4	17288.5	16461.6	15959.8	14839.0
67.5°	6138.3	6036.6	6713.8	8657.1	11449.7	14925.0	17894.2	17953.4	17012.5	16107.3	14307.1
68°	5601.9	5632.1	6159.5	8079.4	10906.6	14575.3	17931.1	18021.6	17067.2	16011.2	14016.5
70°	3339.0	3397.1	3867.6	5562.8	8297.3	12596.2	17533.2	17740.0	16740.9	15020.0	12123.5
72.5°	852.6	921.9	1366.7	2489.7	4739.2	8875.0	14801.0	15150.8	14535.0	12185.0	8184.4
75°	350.9	368.8	488.3	820.2	1765.6	3998.3	9755.6	10504.3	10076.3	7294.9	3698.9
77.5°	242.5	254.8	314.0	454.8	764.4	1355.5	4782.8	5323.7	4796.2	2489.7	806.8
80°	174.3	184.4	224.6	302.8	439.2	483.9	1558.9	1802.5	1431.5	546.4	200.0
82.5°	103.9	111.7	167.6	215.7	267.1	231.3	387.8	440.3	414.6	271.5	89.4
85°	51.4	60.3	112.9	154.2	144.2	97.2	118.5	131.9	163.2	165.4	48.1
87.5°	3.4	6.7	65.9	92.8	40.2	22.3	34.6	42.5	58.1	81.6	20.1
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°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	2816.0	2817.2	2809.3	2806.0	2808.2	2794.8	2789.2	2791.5	2791.5	2794.8	2789.2
5°	2844.0	2844.0	2830.6	2812.7	2802.6	2776.9	2760.2	2755.7	2752.3	2750.1	2745.6
7.5°	2904.3	2897.6	2874.2	2835.0	2801.5	2745.6	2703.2	2680.8	2669.7	2665.2	2661.8
10°	3001.5	2989.3	2950.1	2877.5	2800.4	2700.9	2608.2	2542.3	2487.5	2465.2	2451.7
12.5°	3132.3	3114.4	3048.5	2927.8	2792.6	2609.3	2408.2	2214.8	2034.9	1961.2	1924.3
15°	3283.2	3257.4	3153.5	2970.3	2746.8	2402.6	1965.6	1627.0	1377.9	1284.0	1243.8
17.5°	3436.2	3402.7	3245.2	2997.1	2609.3	1974.6	1379.0	1041.5	875.0	830.3	814.6
20°	3590.5	3541.3	3324.5	2977.0	2298.7	1423.7	909.6	761.0	713.0	699.5	695.1
22.5°	3736.8	3660.9	3396.0	2898.7	1820.4	955.4	719.7	672.7	657.1	649.3	647.0
25°	3864.2	3758.1	3458.6	2657.4	1288.5	721.9	648.1	632.5	612.4	597.9	599.0
27.5°	3983.8	3855.3	3496.6	2259.5	859.3	616.8	600.1	578.9	542.0	520.7	520.7
30°	4128.0	3984.9	3524.5	1738.8	632.5	545.3	531.9	499.5	449.2	421.3	421.3
32.5°	4344.8	4181.6	3506.6	1220.3	524.1	479.4	448.1	403.4	348.7	321.8	320.7
35°	4676.6	4485.6	3379.3	800.1	462.6	416.8	366.5	311.8	263.7	241.4	240.3
37.5°	5123.6	4892.3	3093.2	572.1	414.6	358.7	298.4	238.0	202.3	187.7	186.6
40°	5703.6	5365.0	2684.2	463.8	369.9	302.8	230.2	184.4	159.8	148.6	149.7
42.5°	6399.8	5871.2	2193.6	400.1	326.3	249.2	179.9	145.3	129.6	121.8	119.6
45°	7173.1	6370.7	1679.6	356.5	282.7	201.1	140.8	115.1	102.8	98.3	98.3
47.5°	8023.5	6856.8	1229.2	318.5	235.8	155.3	112.9	93.9	83.8	80.5	79.3
50°	8795.7	7194.3	886.2	278.3	193.3	122.9	91.6	78.2	71.5	67.0	67.0
52.5°	9439.3	7300.5	652.6	234.7	156.4	98.3	76.0	67.0	60.3	57.0	57.0
55°	10005.9	7256.9	485.0	193.3	126.3	80.5	64.8	57.0	51.4	48.1	48.1
57.5°	10549.0	7116.1	362.1	157.6	101.7	64.8	54.8	48.1	42.5	40.2	40.2
60°	10992.6	6881.4	269.3	127.4	81.6	52.5	45.8	39.1	34.6	31.3	31.3
62.5°	11352.5	6622.2	197.8	105.0	64.8	41.3	35.8	32.4	25.7	22.3	22.3
65°	11354.7	6191.9	148.6	87.2	50.3	32.4	26.8	25.7	16.8	13.4	12.3
67.5°	10533.4	5338.2	114.0	74.9	39.1	24.6	20.1	21.2	8.9	5.6	4.5
68°	10235.0	5121.4	107.3	73.8	36.9	23.5	19.0	21.2	7.8	4.5	3.4
70°	8629.2	4074.3	86.0	71.5	32.4	17.9	15.6	21.2	6.7	3.4	2.2
72.5°	5519.2	2364.6	63.7	57.0	24.6	13.4	10.1	19.0	6.7	2.2	1.1
75°	2348.9	733.1	43.6	40.2	14.5	10.1	6.7	12.3	4.5	1.1	0.0
77.5°	495.0	165.4	25.7	24.6	10.1	6.7	4.5	3.4	1.1	0.0	0.0
80°	127.4	48.1	13.4	12.3	5.6	3.4	2.2	0.0	0.0	0.0	0.0
82.5°	40.2	19.0	7.8	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	11.2	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	3.4	1.1	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)