

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: P322152

Luminaire Tested: **GAN-SA8A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322152
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-SA8A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 22760 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

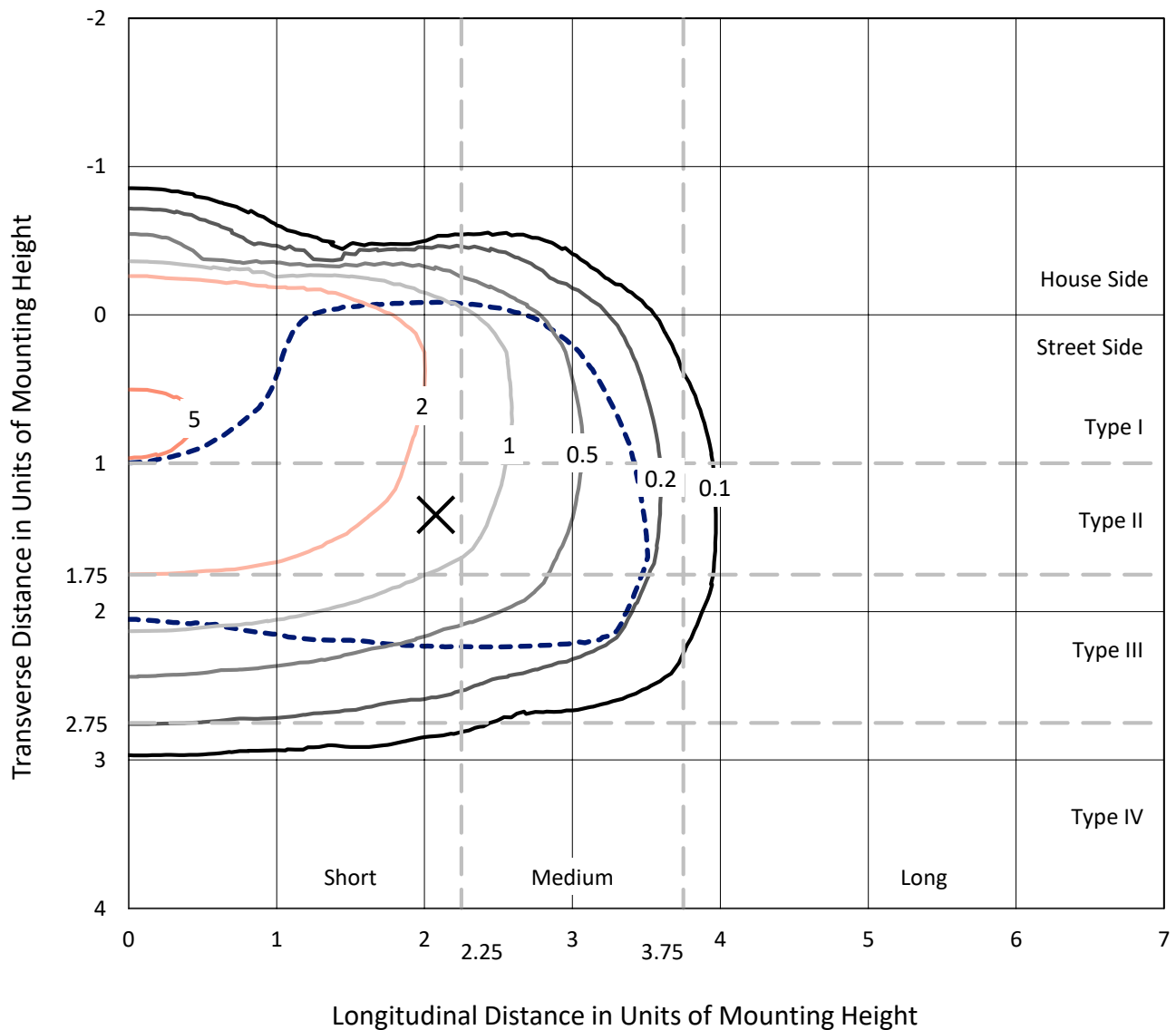


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Iso-Footcandle Lines of Horizontal Illumination

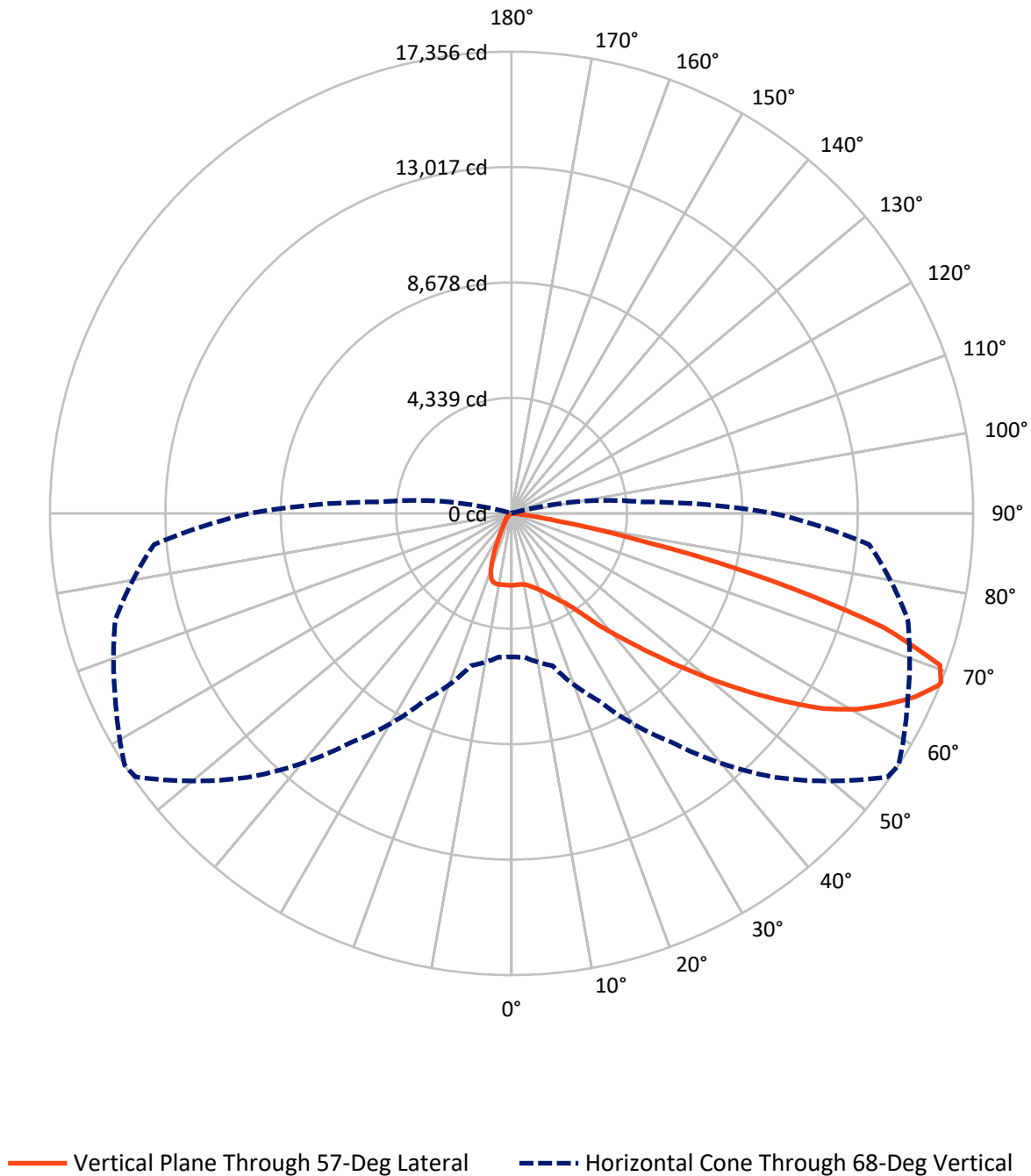
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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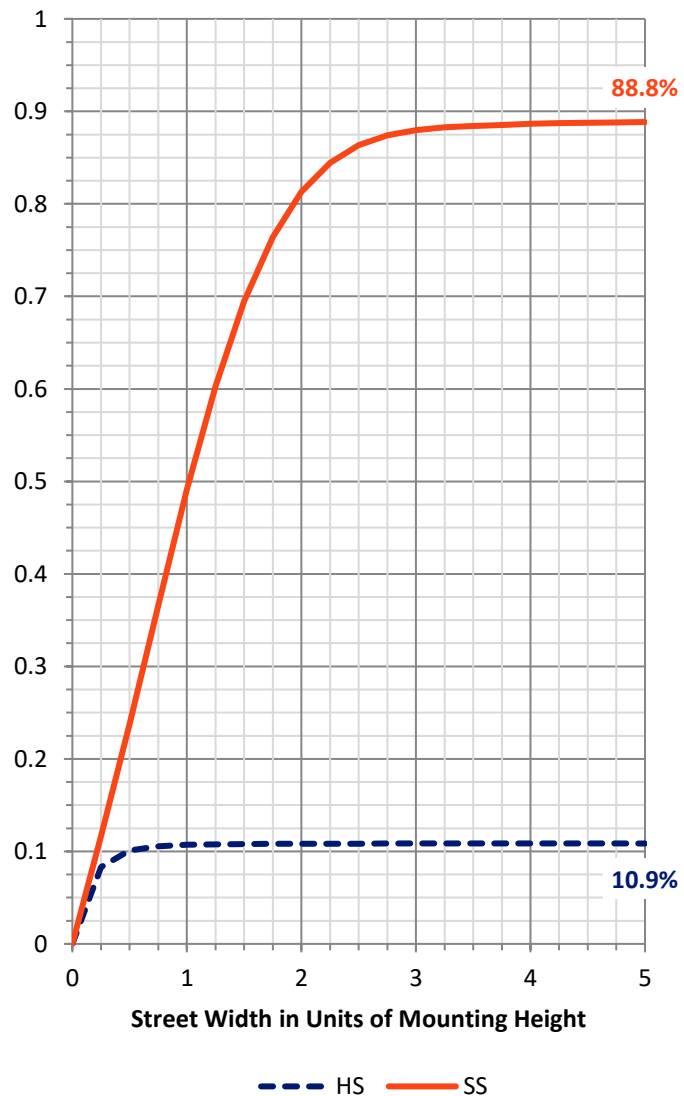
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.8	0.0	2495.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	20264.2	0.0	20264.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	22760.0	0.0	22760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	1.1
10°-20°	701.4	3.1
20°-30°	1209.9	5.3
30°-40°	2088.2	9.2
40°-50°	3572.0	15.7
50°-60°	5714.9	25.1
60°-70°	6602.9	29.0
70°-80°	2523.1	11.1
80°-90°	94.6	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°	22760.0	100.0
0°-180°	22760.0	100.0

Coefficient of Utilization



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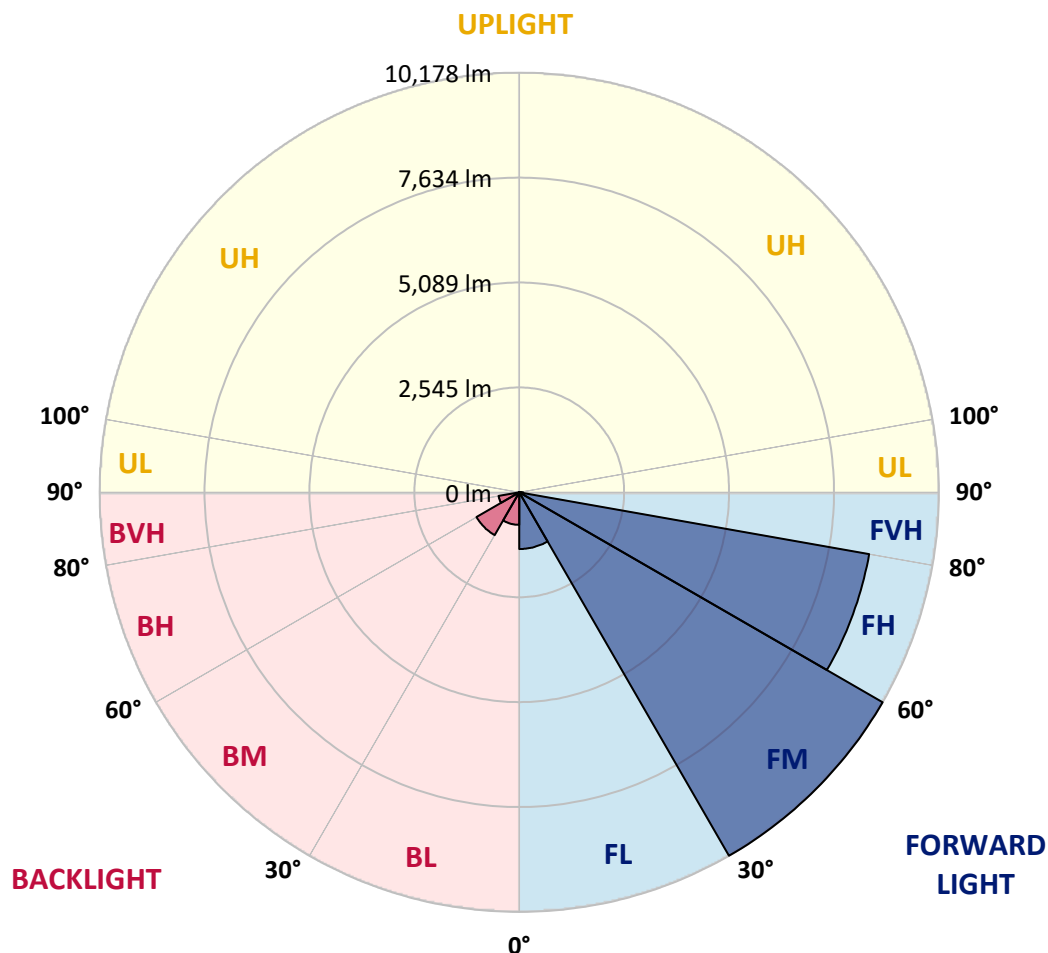
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.6	6.0			
FM	(30°-60°)	10178.1	44.7			
FH	(60°-80°)	8617.7	37.9			G4/12000
FVH	(80°-90°)	92.9	0.4			G1/100
BL	(0°-30°)	788.7	3.5	B2/1000		
BM	(30°-60°)	1197.0	5.3	B2/2500		
BH	(60°-80°)	508.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.7	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°	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5
2.5°	2641.0	2652.8	2661.4	2666.8	2673.3	2687.3	2691.6	2698.0	2701.3	2701.3	2708.8
5°	2536.6	2549.5	2567.8	2582.9	2613.0	2651.8	2679.7	2690.5	2709.9	2727.1	2736.8
7.5°	2439.7	2454.8	2476.3	2511.8	2563.5	2625.9	2684.0	2699.1	2736.8	2773.4	2791.7
10°	2377.3	2389.2	2417.1	2467.7	2535.5	2622.7	2704.5	2722.8	2787.4	2848.7	2883.1
12.5°	2355.8	2366.6	2395.6	2452.7	2536.6	2638.8	2751.8	2778.7	2873.5	2962.8	3011.2
15°	2387.0	2389.2	2420.4	2474.2	2557.0	2678.7	2830.4	2862.7	2982.1	3098.4	3158.6
17.5°	2507.5	2497.9	2514.0	2537.7	2603.3	2731.4	2913.3	2961.7	3121.0	3257.7	3314.7
20°	2808.9	2808.9	2772.3	2707.7	2708.8	2813.2	3025.2	3080.1	3274.9	3433.1	3484.7
22.5°	3324.4	3314.7	3241.5	3083.3	2938.0	2954.2	3161.9	3232.9	3460.0	3628.9	3646.2
25°	3944.3	3932.4	3819.4	3596.7	3344.8	3182.3	3347.0	3428.8	3680.6	3830.2	3794.7
27.5°	4600.8	4591.1	4479.1	4202.6	3844.2	3546.1	3567.6	3645.1	3905.5	4053.0	3940.0
30°	5236.8	5240.0	5129.2	4845.0	4439.3	4009.9	3847.4	3892.6	4124.0	4273.6	4112.2
32.5°	5841.6	5845.9	5750.1	5432.7	5053.8	4549.1	4234.8	4223.0	4378.0	4525.4	4340.3
35°	6380.8	6391.5	6325.9	6079.4	5678.0	5149.6	4737.4	4709.4	4738.5	4905.3	4690.1
37.5°	6900.6	6907.0	6857.5	6649.8	6314.1	5809.3	5372.4	5332.6	5270.1	5398.2	5151.8
40°	7469.9	7453.8	7396.7	7208.4	6920.0	6537.9	6054.7	5985.8	5877.1	5991.2	5758.7
42.5°	7999.4	7981.1	7990.8	7777.7	7534.5	7286.9	6850.0	6731.6	6668.1	6799.4	6503.5
45°	8661.2	8651.6	8683.8	8498.7	8301.8	8122.1	7761.5	7632.4	7604.4	7758.3	7404.2
47.5°	9314.5	9338.2	9438.3	9359.7	9280.1	9121.9	8726.9	8668.8	8686.0	8872.2	8354.5
50°	9859.1	9887.0	10161.5	10251.9	10367.0	10274.5	9878.4	9842.9	9910.7	10078.6	9376.9
52.5°	10252.9	10310.0	10651.1	11067.6	11487.3	11549.8	11154.8	11122.5	11214.0	11239.8	10166.9
55°	10526.3	10576.9	10963.2	11725.2	12579.7	12848.7	12603.4	12478.5	12461.3	12206.2	10997.7
57.5°	10574.7	10569.4	11124.7	12150.3	13436.3	14130.5	13975.5	13852.8	13499.8	13099.5	11950.1
60°	10301.4	10332.6	10977.2	12297.7	13974.4	15100.1	15112.0	14952.7	14402.8	13968.0	12873.5
62.5°	9459.8	9586.8	10237.9	11911.4	13968.0	15490.8	15945.0	15823.4	15165.8	14679.4	13809.8
65°	8095.2	8140.4	8761.3	10587.6	13024.2	15327.2	16695.1	16649.9	15853.5	15370.3	14290.8
67.5°	5911.6	5813.6	6465.8	8337.3	11026.7	14373.7	17233.2	17290.2	16384.1	15512.3	13778.6
68°	5395.0	5424.0	5932.0	7780.9	10503.7	14036.9	17268.7	17355.9	16436.8	15419.8	13498.8
70°	3215.7	3271.6	3724.7	5357.3	7990.8	12130.9	16885.6	17084.7	16122.5	14465.2	11675.7
72.5°	821.1	887.9	1316.2	2397.8	4564.2	8547.2	14254.3	14591.1	13998.1	11734.9	7882.1
75°	337.9	355.1	470.3	789.9	1700.4	3850.6	9395.2	10116.3	9704.1	7025.4	3562.2
77.5°	233.5	245.4	302.4	438.0	736.1	1305.4	4606.1	5127.0	4619.0	2397.8	777.0
80°	167.9	177.6	216.3	291.6	422.9	466.0	1501.3	1735.9	1378.6	526.3	192.6
82.5°	100.1	107.6	161.4	207.7	257.2	222.8	373.4	424.0	399.3	261.5	86.1
85°	49.5	58.1	108.7	148.5	138.8	93.6	114.1	127.0	157.1	159.3	46.3
87.5°	3.2	6.5	63.5	89.3	38.7	21.5	33.4	40.9	56.0	78.6	19.4
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°	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5
2.5°	2712.0	2713.1	2705.6	2702.3	2704.5	2691.6	2686.2	2688.3	2688.3	2691.6	2686.2
5°	2738.9	2738.9	2726.0	2708.8	2699.1	2674.4	2658.2	2653.9	2650.7	2648.5	2644.2
7.5°	2797.0	2790.6	2768.0	2730.3	2698.0	2644.2	2603.3	2581.8	2571.0	2566.7	2563.5
10°	2890.7	2878.8	2841.2	2771.2	2697.0	2601.2	2511.8	2448.4	2395.6	2374.1	2361.2
12.5°	3016.6	2999.4	2935.9	2819.6	2689.4	2512.9	2319.2	2133.0	1959.8	1888.7	1853.2
15°	3161.9	3137.1	3037.0	2860.5	2645.3	2313.8	1893.0	1566.9	1327.0	1236.6	1197.8
17.5°	3309.3	3277.0	3125.3	2886.4	2512.9	1901.6	1328.0	1003.0	842.7	799.6	784.5
20°	3457.8	3410.5	3201.7	2867.0	2213.7	1371.1	876.0	732.9	686.6	673.7	669.4
22.5°	3598.8	3525.6	3270.6	2791.7	1753.1	920.2	693.1	647.9	632.8	625.3	623.1
25°	3721.5	3619.3	3330.8	2559.2	1240.9	695.2	624.2	609.1	589.8	575.8	576.8
27.5°	3836.6	3712.9	3367.4	2176.1	827.6	594.1	577.9	557.5	522.0	501.5	501.5
30°	3975.5	3837.7	3394.3	1674.6	609.1	525.2	512.3	481.1	432.6	405.7	405.7
32.5°	4184.3	4027.1	3377.1	1175.2	504.7	461.7	431.6	388.5	335.8	309.9	308.9
35°	4503.9	4319.9	3254.4	770.6	445.5	401.4	353.0	300.3	254.0	232.5	231.4
37.5°	4934.4	4711.6	2978.9	551.0	399.3	345.5	287.3	229.2	194.8	180.8	179.7
40°	5492.9	5166.8	2585.0	446.6	356.2	291.6	221.7	177.6	153.9	143.1	144.2
42.5°	6163.4	5654.3	2112.6	385.3	314.3	240.0	173.3	139.9	124.8	117.3	115.2
45°	6908.1	6135.4	1617.5	343.3	272.3	193.7	135.6	110.8	99.0	94.7	94.7
47.5°	7727.1	6603.6	1183.8	306.7	227.1	149.6	108.7	90.4	80.7	77.5	76.4
50°	8470.8	6928.6	853.4	268.0	186.2	118.4	88.2	75.3	68.9	64.6	64.6
52.5°	9090.7	7030.8	628.5	226.0	150.7	94.7	73.2	64.6	58.1	54.9	54.9
55°	9636.3	6988.8	467.1	186.2	121.6	77.5	62.4	54.9	49.5	46.3	46.3
57.5°	10159.3	6853.2	348.7	151.7	97.9	62.4	52.7	46.3	40.9	38.7	38.7
60°	10586.6	6627.2	259.4	122.7	78.6	50.6	44.1	37.7	33.4	30.1	30.1
62.5°	10933.1	6377.6	190.5	101.2	62.4	39.8	34.4	31.2	24.8	21.5	21.5
65°	10935.3	5963.2	143.1	83.9	48.4	31.2	25.8	24.8	16.1	12.9	11.8
67.5°	10144.3	5141.0	109.8	72.1	37.7	23.7	19.4	20.4	8.6	5.4	4.3
68°	9856.9	4932.2	103.3	71.0	35.5	22.6	18.3	20.4	7.5	4.3	3.2
70°	8310.4	3923.8	82.9	68.9	31.2	17.2	15.1	20.4	6.5	3.2	2.2
72.5°	5315.3	2277.2	61.3	54.9	23.7	12.9	9.7	18.3	6.5	2.2	1.1
75°	2262.2	706.0	42.0	38.7	14.0	9.7	6.5	11.8	4.3	1.1	0.0
77.5°	476.8	159.3	24.8	23.7	9.7	6.5	4.3	3.2	1.1	0.0	0.0
80°	122.7	46.3	12.9	11.8	5.4	3.2	2.2	0.0	0.0	0.0	0.0
82.5°	38.7	18.3	7.5	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.4	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	3.2	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)