

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: P322353

Luminaire Tested: **GAN-SA9A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322353
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-SA9A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 22318 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 290
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

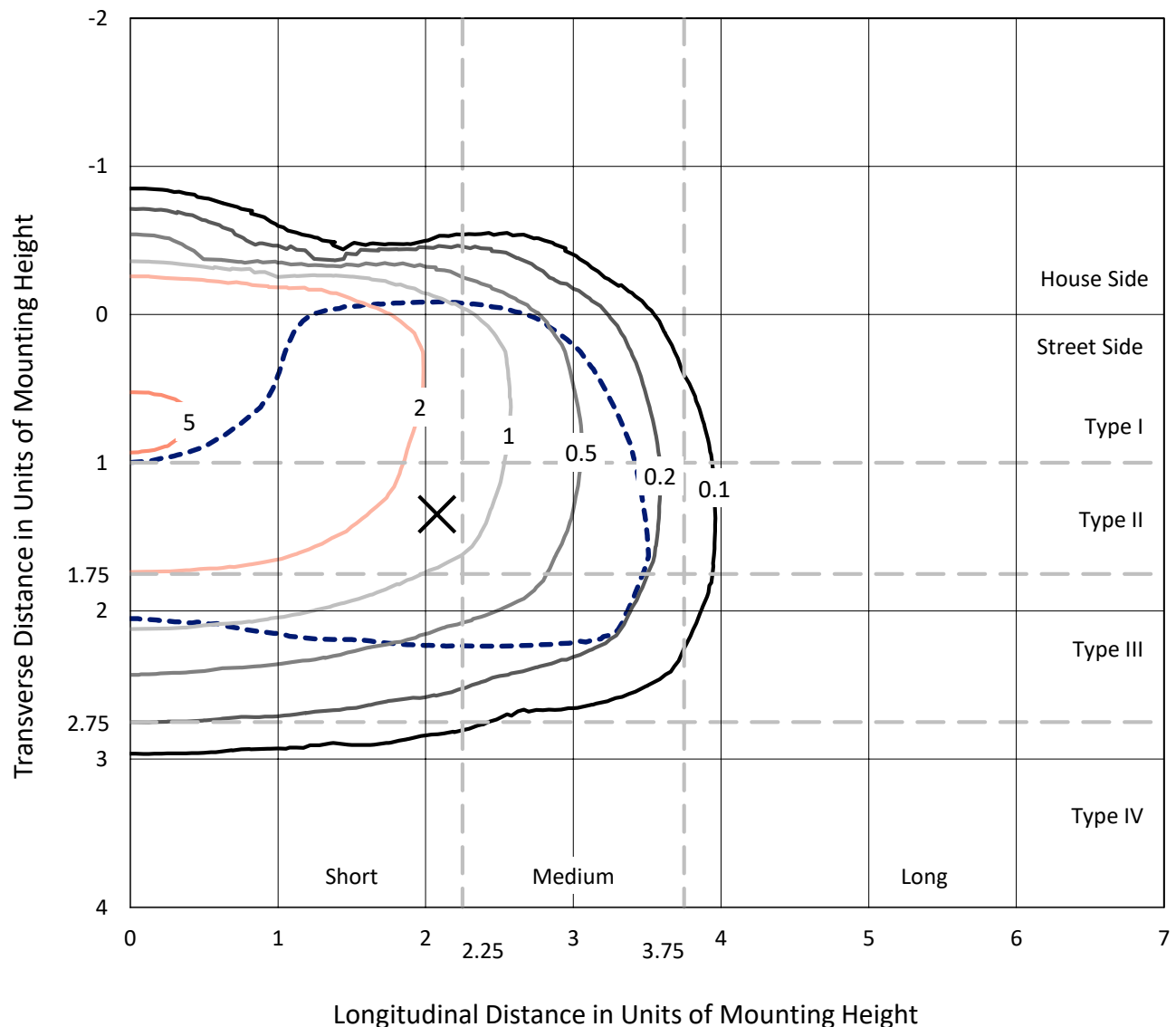


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Iso-Footcandle Lines of Horizontal Illumination

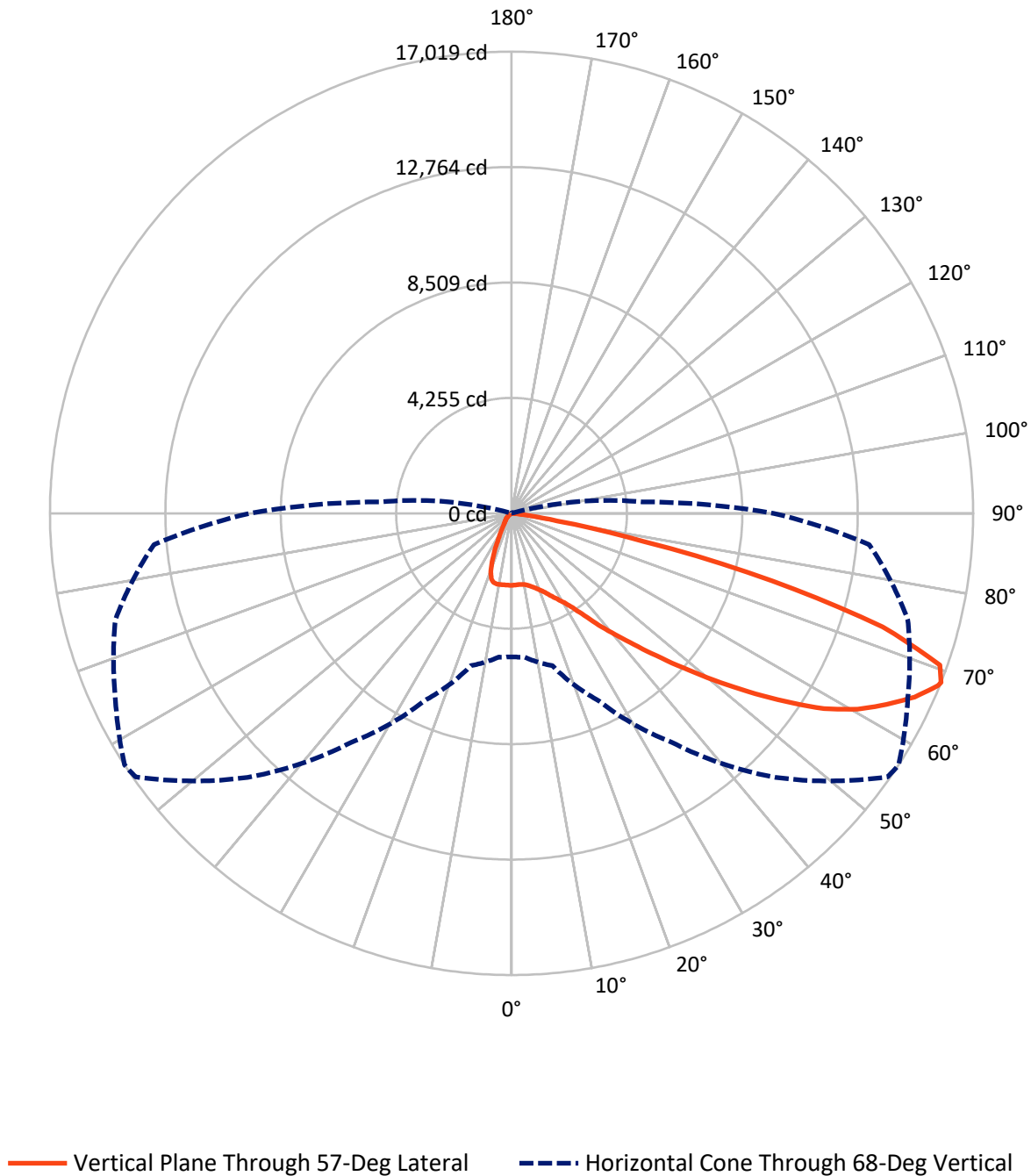
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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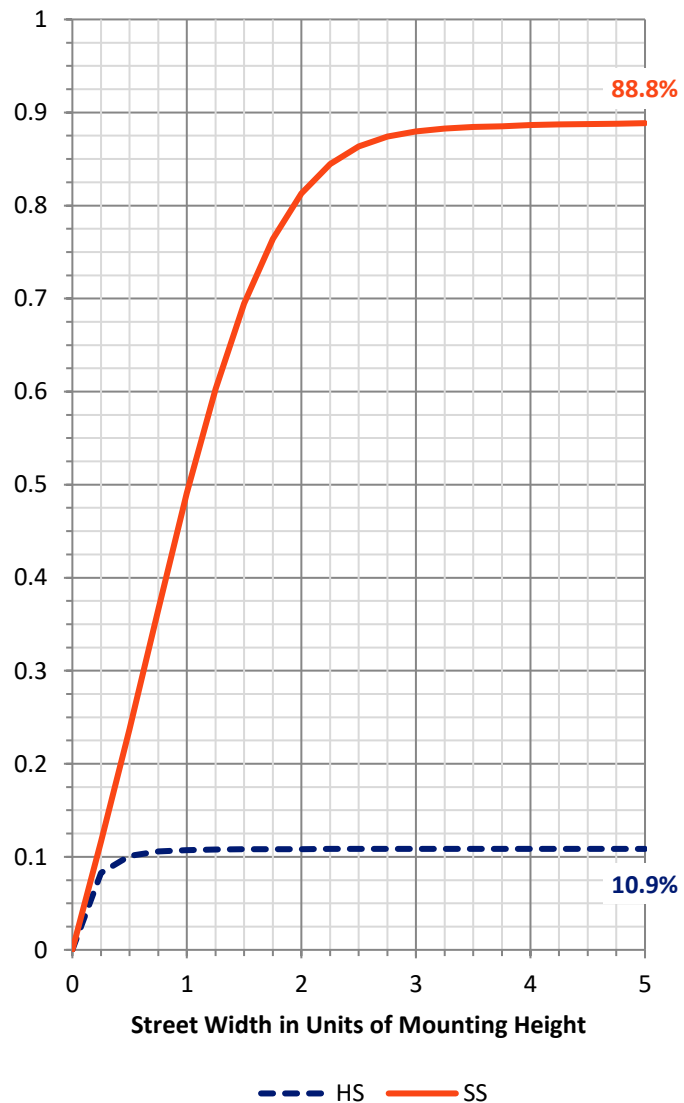
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.3	0.0	2447.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19870.7	0.0	19870.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	22318.0	0.0	22318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.1
10°-20°	687.7	3.1
20°-30°	1186.4	5.3
30°-40°	2047.7	9.2
40°-50°	3502.6	15.7
50°-60°	5603.9	25.1
60°-70°	6474.7	29.0
70°-80°	2474.1	11.1
80°-90°	92.7	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°	22318.0	100.0
0°-180°	22318.0	100.0

Coefficient of Utilization



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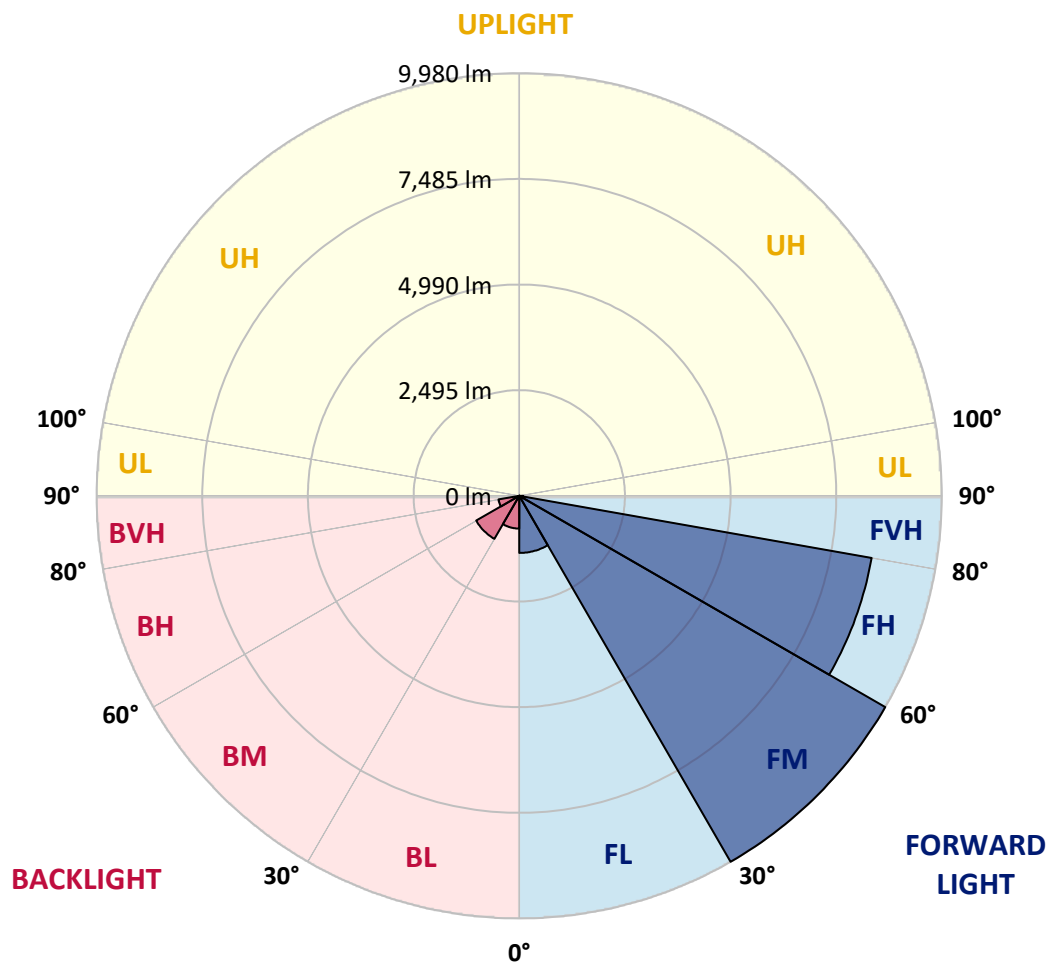
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.9	6.0			
FM	(30°-60°)	9980.4	44.7			
FH	(60°-80°)	8450.3	37.9			G4/12000
FVH	(80°-90°)	91.0	0.4			G1/100
BL	(0°-30°)	773.4	3.5	B2/1000		
BM	(30°-60°)	1173.8	5.3	B2/2500		
BH	(60°-80°)	498.4	2.2	B1/500		G1/500
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°	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0
2.5°	2589.7	2601.3	2609.8	2615.0	2621.4	2635.1	2639.3	2645.6	2648.8	2648.8	2656.2
5°	2487.3	2500.0	2517.9	2532.7	2562.3	2600.3	2627.7	2638.2	2657.2	2674.1	2683.6
7.5°	2392.4	2407.1	2428.2	2463.1	2513.7	2574.9	2631.9	2646.7	2683.6	2719.5	2737.4
10°	2331.2	2342.8	2370.2	2419.8	2486.3	2571.8	2652.0	2669.9	2733.2	2793.4	2827.1
12.5°	2310.0	2320.6	2349.1	2405.0	2487.3	2587.6	2698.4	2724.8	2817.6	2905.2	2952.7
15°	2340.7	2342.8	2373.4	2426.1	2507.4	2626.6	2775.4	2807.1	2924.2	3038.2	3097.3
17.5°	2458.8	2449.3	2465.2	2488.4	2552.8	2678.3	2856.7	2904.2	3060.4	3194.4	3250.3
20°	2754.3	2754.3	2718.5	2655.1	2656.2	2758.6	2966.4	3020.3	3211.3	3366.4	3417.1
22.5°	3259.8	3250.3	3178.6	3023.4	2881.0	2896.8	3100.5	3170.1	3392.8	3558.5	3575.4
25°	3867.7	3856.1	3745.3	3526.8	3279.9	3120.5	3282.0	3362.2	3609.1	3755.8	3721.0
27.5°	4511.4	4501.9	4392.2	4120.9	3769.5	3477.2	3498.3	3574.3	3829.7	3974.3	3863.5
30°	5135.1	5138.3	5029.6	4751.0	4353.1	3932.0	3772.7	3817.0	4043.9	4190.6	4032.3
32.5°	5728.2	5732.4	5638.5	5327.2	4955.7	4460.7	4152.6	4141.0	4293.0	4437.5	4256.0
35°	6256.9	6267.4	6203.0	5961.4	5567.8	5049.6	4645.4	4618.0	4646.5	4810.1	4599.0
37.5°	6766.6	6772.9	6724.4	6520.7	6191.4	5696.5	5268.1	5229.0	5167.8	5293.4	5051.7
40°	7324.8	7309.0	7253.1	7068.4	6785.6	6410.9	5937.1	5869.6	5763.0	5874.9	5646.9
42.5°	7844.0	7826.1	7835.6	7626.6	7388.1	7145.4	6717.0	6600.9	6538.6	6667.4	6377.2
45°	8493.0	8483.5	8515.2	8333.7	8140.6	7964.3	7610.8	7484.2	7456.7	7607.7	7260.5
47.5°	9133.6	9156.8	9255.0	9177.9	9099.8	8944.7	8557.4	8500.4	8517.3	8699.9	8192.3
50°	9667.6	9695.0	9964.1	10052.8	10165.7	10074.9	9686.6	9651.8	9718.3	9882.9	9194.8
52.5°	10053.8	10109.8	10444.3	10852.7	11264.3	11325.5	10938.2	10906.5	10996.2	11021.5	9969.4
55°	10321.9	10371.5	10750.3	11497.5	12335.4	12599.2	12358.6	12236.2	12219.3	11969.2	10784.1
57.5°	10369.4	10364.1	10908.6	11914.3	13175.4	13856.1	13704.1	13583.8	13237.7	12845.1	11718.0
60°	10101.3	10131.9	10764.1	12058.9	13703.1	14806.9	14818.5	14662.3	14123.1	13696.7	12623.5
62.5°	9276.1	9400.6	10039.1	11680.1	13696.7	15190.0	15635.3	15516.1	14871.3	14394.3	13541.6
65°	7938.0	7982.3	8591.2	10382.0	12771.2	15029.6	16370.9	16326.5	15545.6	15071.8	14013.3
67.5°	5796.8	5700.7	6340.2	8175.4	10812.6	14094.6	16898.5	16954.4	16065.9	15211.1	13511.0
68°	5290.2	5318.7	5816.8	7629.8	10299.7	13764.3	16933.3	17018.8	16117.6	15120.3	13236.6
70°	3153.2	3208.1	3652.4	5253.3	7835.6	11895.3	16557.6	16752.9	15809.4	14184.3	11448.9
72.5°	805.2	870.6	1290.6	2351.2	4475.5	8381.2	13977.4	14307.7	13726.3	11507.0	7729.0
75°	331.4	348.2	461.2	774.6	1667.4	3775.9	9212.8	9919.8	9515.6	6889.0	3493.0
77.5°	229.0	240.6	296.5	429.5	721.8	1280.1	4516.7	5027.4	4529.3	2351.2	761.9
80°	164.6	174.1	212.1	286.0	414.7	456.9	1472.1	1702.2	1351.8	516.0	188.9
82.5°	98.1	105.5	158.3	203.7	252.2	218.4	366.2	415.8	391.5	256.4	84.4
85°	48.5	57.0	106.6	145.6	136.1	91.8	111.9	124.5	154.1	156.2	45.4
87.5°	3.2	6.3	62.3	87.6	38.0	21.1	32.7	40.1	54.9	77.0	19.0
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°	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0	2652.0
2.5°	2659.4	2660.4	2653.0	2649.9	2652.0	2639.3	2634.0	2636.1	2636.1	2639.3	2634.0
5°	2685.7	2685.7	2673.1	2656.2	2646.7	2622.4	2606.6	2602.4	2599.2	2597.1	2592.9
7.5°	2742.7	2736.4	2714.2	2677.3	2645.6	2592.9	2552.8	2531.7	2521.1	2516.9	2513.7
10°	2834.5	2822.9	2786.0	2717.4	2644.6	2550.7	2463.1	2400.8	2349.1	2328.0	2315.3
12.5°	2958.0	2941.1	2878.9	2764.9	2637.2	2464.1	2274.2	2091.6	1921.7	1852.1	1817.2
15°	3100.5	3076.2	2978.1	2805.0	2593.9	2268.9	1856.3	1536.5	1301.2	1212.5	1174.5
17.5°	3245.0	3213.4	3064.6	2830.3	2464.1	1864.7	1302.2	983.5	826.3	784.1	769.3
20°	3390.7	3344.2	3139.5	2811.3	2170.8	1344.5	859.0	718.7	673.3	660.6	656.4
22.5°	3528.9	3457.2	3207.1	2737.4	1719.1	902.3	679.6	635.3	620.5	613.1	611.0
25°	3649.2	3549.0	3266.2	2509.5	1216.8	681.7	612.1	597.3	578.3	564.6	565.6
27.5°	3762.1	3640.8	3302.0	2133.8	811.5	582.5	566.7	546.6	511.8	491.8	491.8
30°	3898.3	3763.2	3328.4	1642.0	597.3	515.0	502.3	471.7	424.2	397.8	397.8
32.5°	4103.0	3948.9	3311.5	1152.4	494.9	452.7	423.2	381.0	329.3	303.9	302.9
35°	4416.4	4236.0	3191.2	755.6	436.9	393.6	346.1	294.4	249.1	227.9	226.9
37.5°	4838.5	4620.1	2921.1	540.3	391.5	338.8	281.8	224.8	191.0	177.3	176.2
40°	5386.2	5066.5	2534.8	437.9	349.3	286.0	217.4	174.1	150.9	140.4	141.4
42.5°	6043.7	5544.5	2071.6	377.8	308.1	235.3	169.9	137.2	122.4	115.0	112.9
45°	6774.0	6016.3	1586.1	336.6	267.0	190.0	133.0	108.7	97.1	92.9	92.9
47.5°	7577.0	6475.3	1160.8	300.8	222.7	146.7	106.6	88.6	79.1	76.0	74.9
50°	8306.3	6794.0	836.9	262.8	182.6	116.1	86.5	73.9	67.5	63.3	63.3
52.5°	8914.1	6894.3	616.3	221.6	147.7	92.9	71.8	63.3	57.0	53.8	53.8
55°	9449.1	6853.1	458.0	182.6	119.2	76.0	61.2	53.8	48.5	45.4	45.4
57.5°	9962.0	6720.1	341.9	148.8	96.0	61.2	51.7	45.4	40.1	38.0	38.0
60°	10381.0	6498.5	254.3	120.3	77.0	49.6	43.3	36.9	32.7	29.5	29.5
62.5°	10720.8	6253.7	186.8	99.2	61.2	39.0	33.8	30.6	24.3	21.1	21.1
65°	10722.9	5847.4	140.4	82.3	47.5	30.6	25.3	24.3	15.8	12.7	11.6
67.5°	9947.2	5041.2	107.6	70.7	36.9	23.2	19.0	20.1	8.4	5.3	4.2
68°	9665.5	4836.4	101.3	69.6	34.8	22.2	17.9	20.1	7.4	4.2	3.2
70°	8149.0	3847.6	81.3	67.5	30.6	16.9	14.8	20.1	6.3	3.2	2.1
72.5°	5212.1	2233.0	60.2	53.8	23.2	12.7	9.5	17.9	6.3	2.1	1.1
75°	2218.2	692.3	41.2	38.0	13.7	9.5	6.3	11.6	4.2	1.1	0.0
77.5°	467.5	156.2	24.3	23.2	9.5	6.3	4.2	3.2	1.1	0.0	0.0
80°	120.3	45.4	12.7	11.6	5.3	3.2	2.1	0.0	0.0	0.0	0.0
82.5°	38.0	17.9	7.4	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	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)