

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: P322161

Luminaire Tested: **GAN-SA7B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322161
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-SA7B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 24634 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

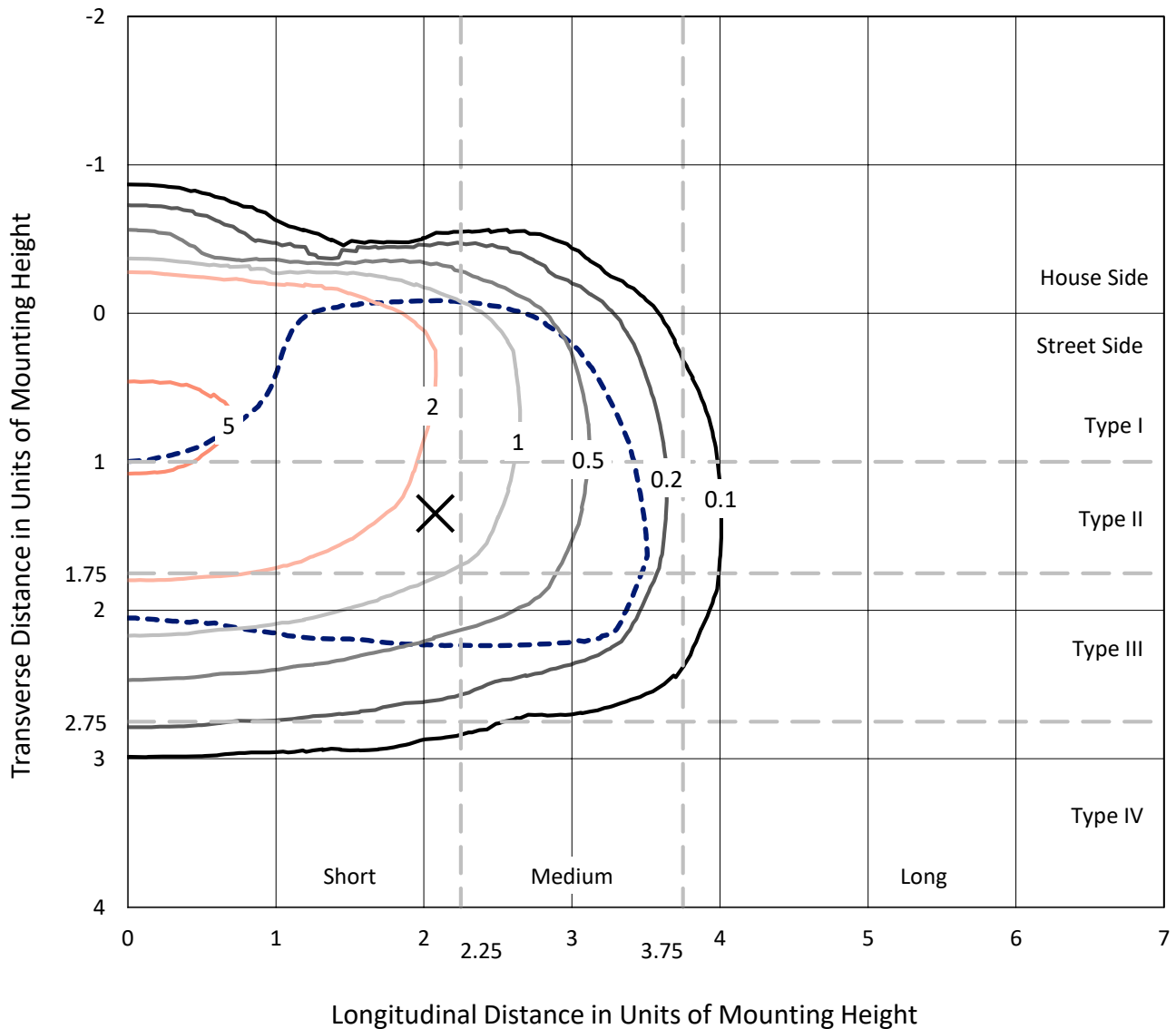
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

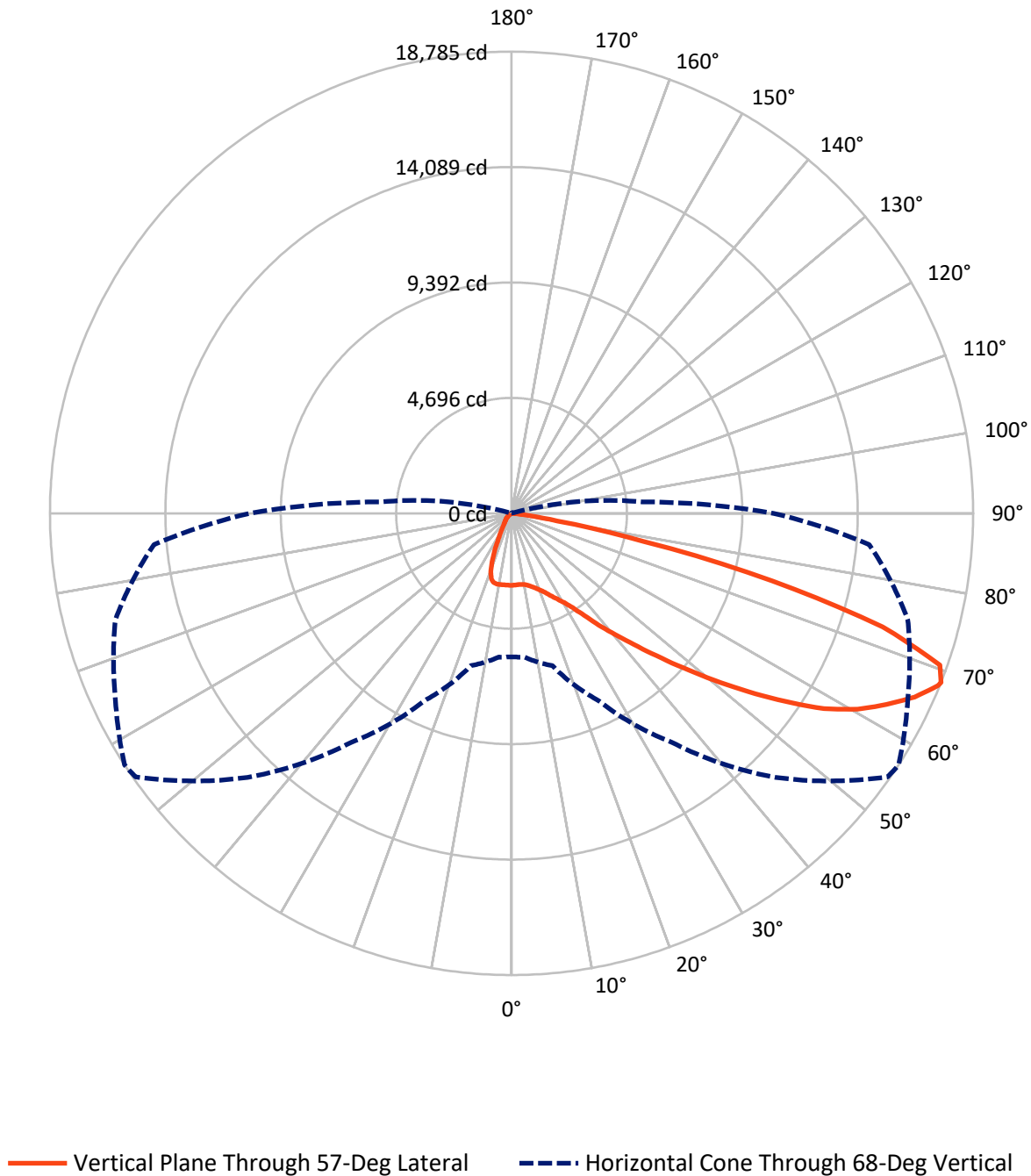
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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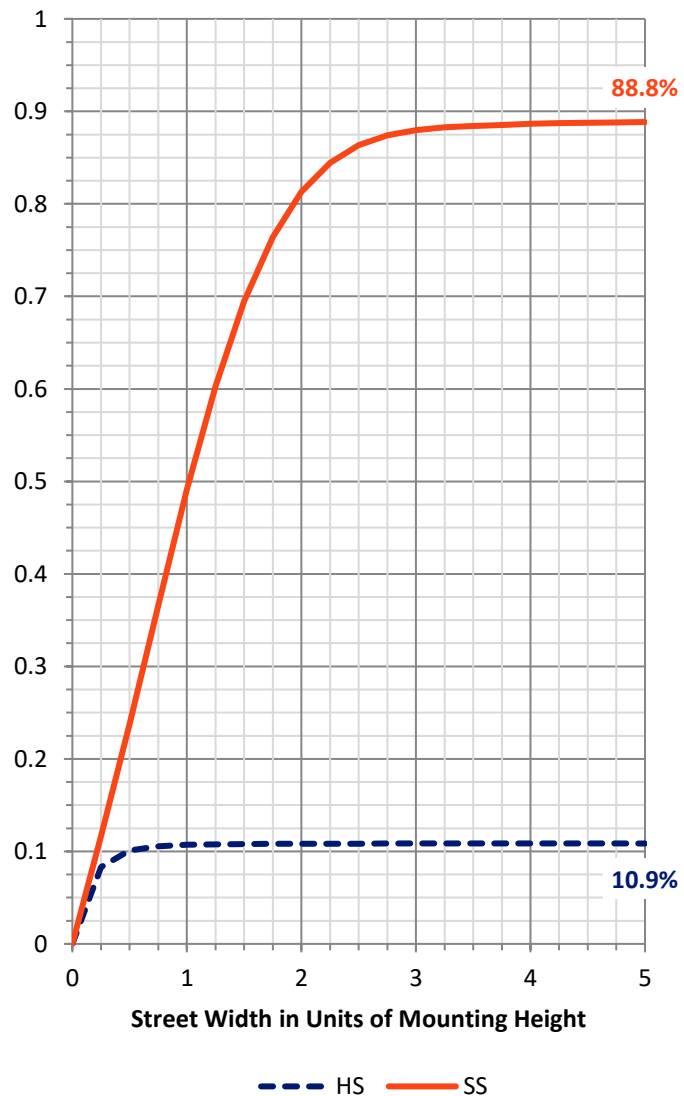
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2701.3	0.0	2701.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21932.7	0.0	21932.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	24634.0	0.0	24634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.1
10°-20°	759.1	3.1
20°-30°	1309.5	5.3
30°-40°	2260.2	9.2
40°-50°	3866.1	15.7
50°-60°	6185.4	25.1
60°-70°	7146.6	29.0
70°-80°	2730.8	11.1
80°-90°	102.4	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°	24634.0	100.0
0°-180°	24634.0	100.0

Coefficient of Utilization



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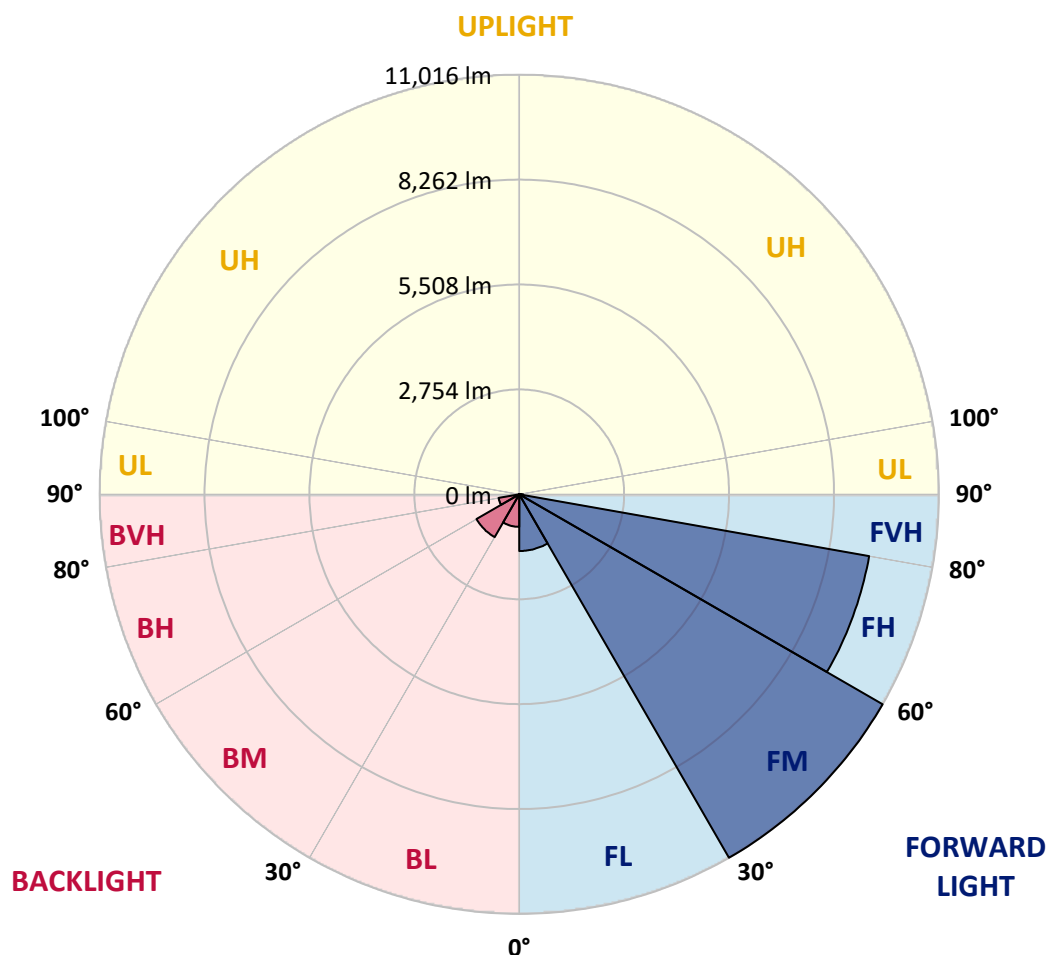
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1488.9	6.0			
FM	(30°-60°)	11016.1	44.7			
FH	(60°-80°)	9327.2	37.9			G4/12000
FVH	(80°-90°)	100.5	0.4			G2/225
BL	(0°-30°)	853.7	3.5	B2/1000		
BM	(30°-60°)	1295.6	5.3	B2/2500		
BH	(60°-80°)	550.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.9	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°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	2858.4	2871.3	2880.6	2886.4	2893.4	2908.5	2913.2	2920.2	2923.7	2923.7	2931.8
5°	2745.5	2759.4	2779.2	2795.5	2828.2	2870.1	2900.4	2912.0	2933.0	2951.6	2962.1
7.5°	2640.6	2656.9	2680.2	2718.7	2774.6	2842.1	2905.0	2921.3	2962.1	3001.7	3021.5
10°	2573.1	2585.9	2616.2	2670.9	2744.3	2838.6	2927.2	2947.0	3016.9	3083.3	3120.5
12.5°	2549.8	2561.4	2592.9	2654.6	2745.5	2856.1	2978.4	3007.5	3110.0	3206.7	3259.1
15°	2583.5	2585.9	2619.7	2677.9	2767.6	2899.2	3063.5	3098.4	3227.7	3353.5	3418.7
17.5°	2714.0	2703.5	2721.0	2746.6	2817.7	2956.3	3153.1	3205.6	3378.0	3525.9	3587.6
20°	3040.2	3040.2	3000.6	2930.7	2931.8	3044.8	3274.3	3333.7	3544.5	3715.7	3771.7
22.5°	3598.1	3587.6	3508.4	3337.2	3179.9	3197.4	3422.2	3499.1	3744.9	3927.7	3946.4
25°	4269.0	4256.2	4133.9	3892.8	3620.2	3444.3	3622.6	3711.1	3983.7	4145.6	4107.1
27.5°	4979.6	4969.1	4847.9	4548.6	4160.7	3838.1	3861.3	3945.2	4227.1	4386.7	4264.4
30°	5668.0	5671.5	5551.5	5244.0	4804.8	4340.1	4164.2	4213.1	4463.6	4625.5	4450.7
32.5°	6322.6	6327.3	6223.6	5880.0	5469.9	4923.7	4583.5	4570.7	4738.4	4898.0	4697.7
35°	6906.2	6917.8	6846.8	6580.0	6145.5	5573.6	5127.5	5097.2	5128.7	5309.2	5076.2
37.5°	7468.8	7475.8	7422.2	7197.4	6833.9	6287.6	5814.7	5771.6	5704.1	5842.7	5575.9
40°	8084.9	8067.5	8005.7	7801.9	7489.7	7076.2	6553.2	6478.7	6361.0	6484.5	6232.9
42.5°	8658.0	8638.2	8648.7	8418.1	8154.8	7886.9	7414.0	7285.9	7217.2	7359.3	7038.9
45°	9374.4	9363.9	9398.9	9198.5	8985.3	8790.8	8400.6	8260.8	8230.6	8397.1	8013.9
47.5°	10081.4	10107.1	10215.4	10130.4	10044.2	9872.9	9445.4	9382.5	9401.2	9602.7	9042.4
50°	10670.8	10701.1	10998.1	11096.0	11220.6	11120.4	10691.8	10653.4	10726.7	10908.4	10149.0
52.5°	11097.1	11158.9	11528.1	11978.9	12433.2	12500.7	12073.3	12038.3	12137.3	12165.3	11004.0
55°	11393.0	11447.8	11865.9	12690.6	13615.5	13906.7	13641.1	13506.0	13487.3	13211.3	11903.2
57.5°	11445.4	11439.6	12040.6	13150.7	14542.7	15294.0	15126.2	14993.4	14611.4	14178.1	12934.1
60°	11149.6	11183.3	11881.1	13310.3	15125.1	16343.5	16356.3	16183.9	15588.7	15118.1	13933.5
62.5°	10238.7	10376.1	11080.8	12892.1	15118.1	16766.3	17257.8	17126.2	16414.5	15888.0	14946.8
65°	8761.7	8810.6	9482.7	11459.4	14096.5	16589.2	18069.7	18020.8	17158.8	16635.8	15467.5
67.5°	6398.3	6292.3	6998.2	9023.8	11934.6	15557.2	18652.1	18713.8	17733.1	16789.6	14913.1
68°	5839.2	5870.6	6420.4	8421.6	11368.5	15192.6	18690.5	18784.9	17790.2	16689.4	14610.2
70°	3480.5	3541.0	4031.4	5798.4	8648.7	13129.7	18275.9	18491.4	17450.0	15656.2	12637.0
72.5°	888.8	961.0	1424.6	2595.2	4940.0	9250.9	15427.9	15792.5	15150.7	12701.1	8531.1
75°	365.8	384.4	509.0	855.0	1840.4	4167.7	10168.8	10949.2	10503.1	7603.9	3855.5
77.5°	252.8	265.6	327.3	474.1	796.7	1412.9	4985.4	5549.2	4999.4	2595.2	841.0
80°	181.7	192.2	234.1	315.7	457.8	504.4	1624.9	1878.8	1492.1	569.6	208.5
82.5°	108.3	116.5	174.7	224.8	278.4	241.1	404.2	458.9	432.1	283.0	93.2
85°	53.6	62.9	117.6	160.7	150.3	101.3	123.5	137.4	170.1	172.4	50.1
87.5°	3.5	7.0	68.7	96.7	41.9	23.3	36.1	44.3	60.6	85.0	21.0
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°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	2935.3	2936.5	2928.3	2924.8	2927.2	2913.2	2907.4	2909.7	2909.7	2913.2	2907.4
5°	2964.4	2964.4	2950.5	2931.8	2921.3	2894.6	2877.1	2872.4	2868.9	2866.6	2861.9
7.5°	3027.3	3020.4	2995.9	2955.1	2920.2	2861.9	2817.7	2794.4	2782.7	2778.1	2774.6
10°	3128.7	3115.9	3075.1	2999.4	2919.0	2815.3	2718.7	2649.9	2592.9	2569.6	2555.6
12.5°	3265.0	3246.3	3177.6	3051.8	2910.9	2719.8	2510.2	2308.7	2121.1	2044.2	2005.8
15°	3422.2	3395.4	3287.1	3096.1	2863.1	2504.3	2048.9	1696.0	1436.2	1338.4	1296.4
17.5°	3581.8	3546.8	3382.6	3124.0	2719.8	2058.2	1437.4	1085.6	912.0	865.5	849.1
20°	3742.5	3691.3	3465.3	3103.1	2396.0	1484.0	948.2	793.2	743.1	729.2	724.5
22.5°	3895.1	3815.9	3539.9	3021.5	1897.5	995.9	750.1	701.2	684.9	676.8	674.4
25°	4027.9	3917.3	3605.1	2769.9	1343.0	752.5	675.6	659.3	638.3	623.2	624.3
27.5°	4152.5	4018.6	3644.7	2355.2	895.7	643.0	625.5	603.4	564.9	542.8	542.8
30°	4302.8	4153.7	3673.8	1812.4	659.3	568.4	554.4	520.7	468.3	439.1	439.1
32.5°	4528.8	4358.7	3655.2	1272.0	546.3	499.7	467.1	420.5	363.4	335.5	334.3
35°	4874.7	4675.5	3522.4	834.0	482.2	434.5	382.1	325.0	274.9	251.6	250.4
37.5°	5340.7	5099.5	3224.2	596.4	432.1	373.9	311.0	248.1	210.8	195.7	194.5
40°	5945.2	5592.3	2797.9	483.4	385.6	315.7	240.0	192.2	166.6	154.9	156.1
42.5°	6670.9	6119.9	2286.5	417.0	340.1	259.8	187.5	151.4	135.1	127.0	124.6
45°	7476.9	6640.6	1750.7	371.6	294.7	209.7	146.8	120.0	107.2	102.5	102.5
47.5°	8363.3	7147.3	1281.3	332.0	245.8	161.9	117.6	97.8	87.4	83.9	82.7
50°	9168.2	7499.0	923.7	290.0	201.5	128.1	95.5	81.5	74.5	69.9	69.9
52.5°	9839.2	7609.7	680.2	244.6	163.1	102.5	79.2	69.9	62.9	59.4	59.4
55°	10429.7	7564.3	505.5	201.5	131.6	83.9	67.6	59.4	53.6	50.1	50.1
57.5°	10995.8	7417.5	377.4	164.2	106.0	67.6	57.1	50.1	44.3	41.9	41.9
60°	11458.2	7172.9	280.7	132.8	85.0	54.7	47.8	40.8	36.1	32.6	32.6
62.5°	11833.3	6902.7	206.2	109.5	67.6	43.1	37.3	33.8	26.8	23.3	23.3
65°	11835.6	6454.2	154.9	90.9	52.4	33.8	28.0	26.8	17.5	14.0	12.8
67.5°	10979.5	5564.3	118.8	78.0	40.8	25.6	21.0	22.1	9.3	5.8	4.7
68°	10668.5	5338.3	111.8	76.9	38.4	24.5	19.8	22.1	8.2	4.7	3.5
70°	8994.7	4246.9	89.7	74.5	33.8	18.6	16.3	22.1	7.0	3.5	2.3
72.5°	5753.0	2464.7	66.4	59.4	25.6	14.0	10.5	19.8	7.0	2.3	1.2
75°	2448.4	764.1	45.4	41.9	15.1	10.5	7.0	12.8	4.7	1.2	0.0
77.5°	516.0	172.4	26.8	25.6	10.5	7.0	4.7	3.5	1.2	0.0	0.0
80°	132.8	50.1	14.0	12.8	5.8	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	41.9	19.8	8.2	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	11.6	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	3.5	1.2	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)