

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: P321738

Luminaire Tested: **GAN-SA4D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17696 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

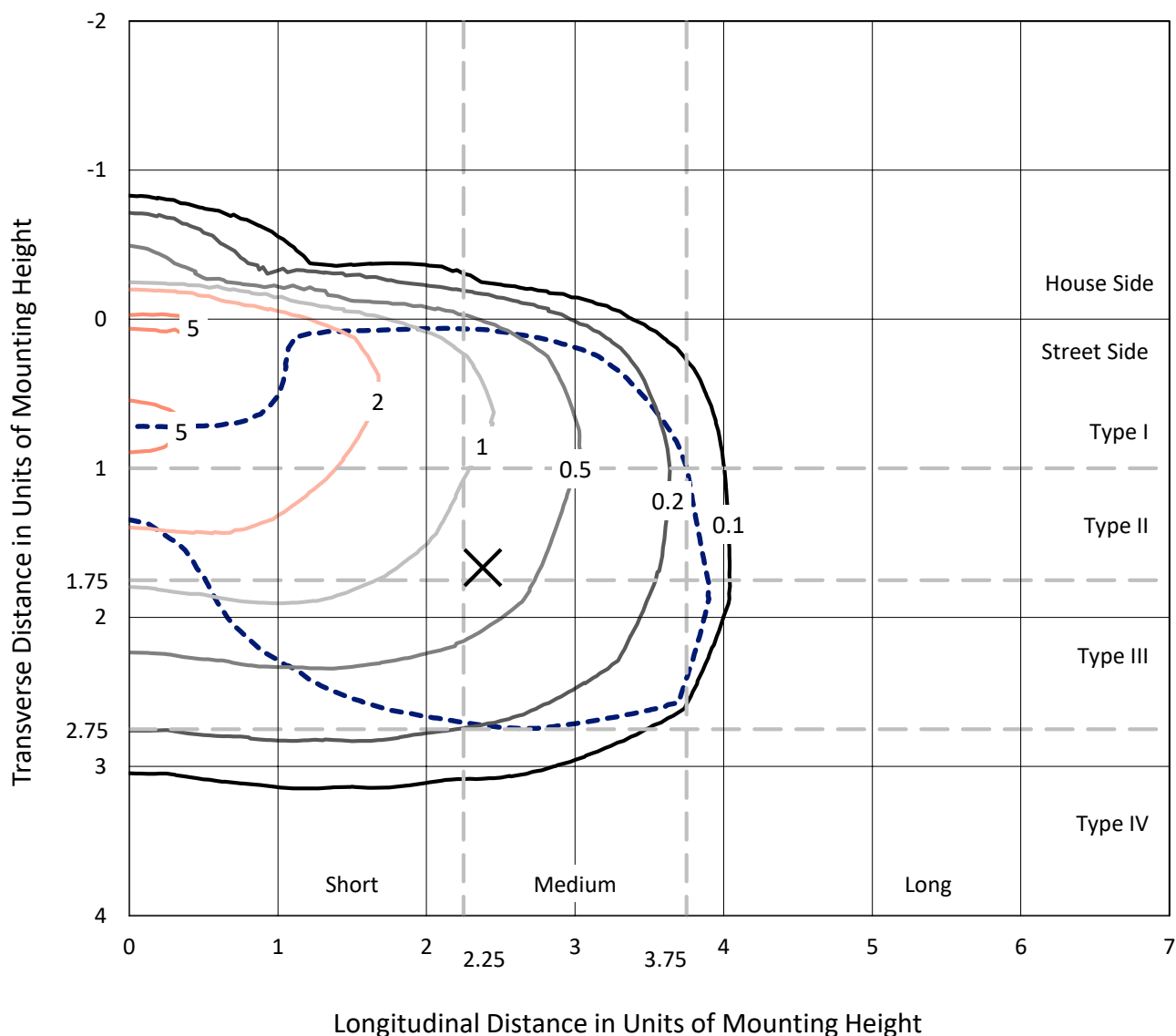
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

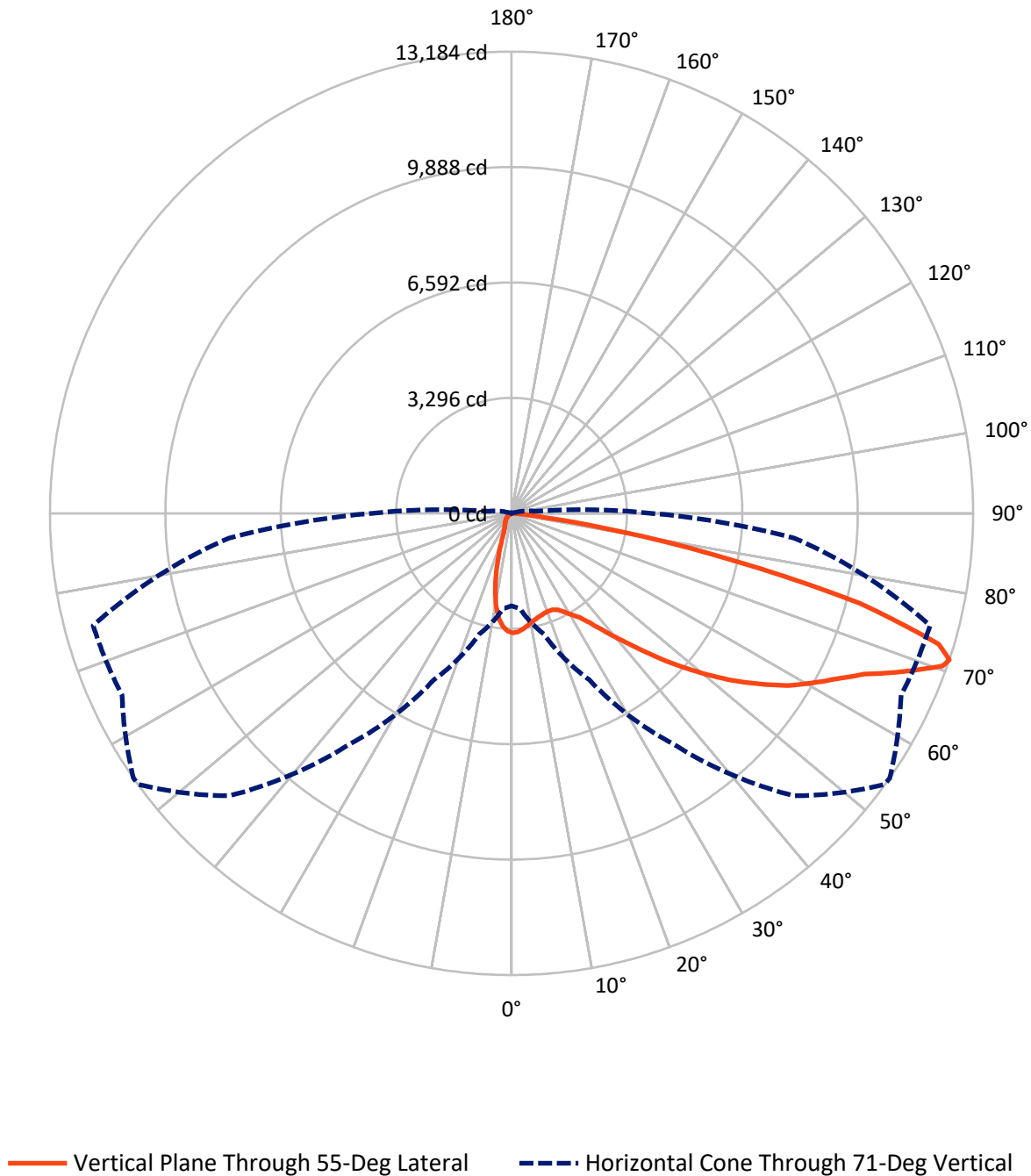
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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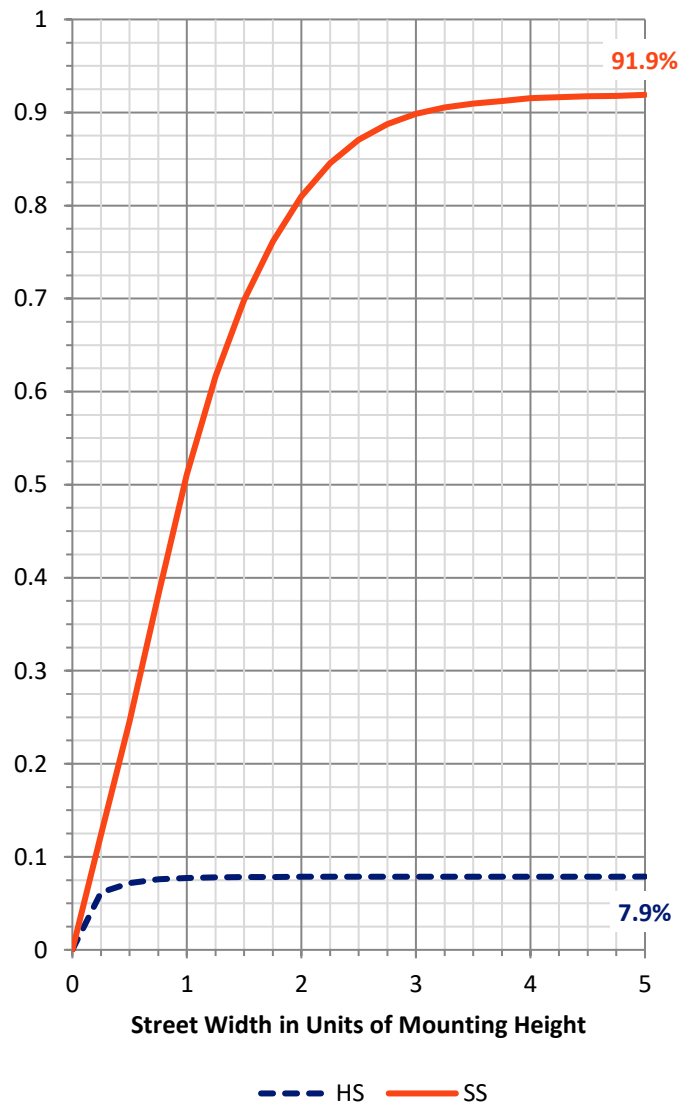
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.0	0.0	1401.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16295.0	0.0	16295.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	17696.0	0.0	17696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	1.6
10°-20°	656.9	3.7
20°-30°	1055.7	6.0
30°-40°	1793.7	10.1
40°-50°	2784.0	15.7
50°-60°	3743.0	21.2
60°-70°	4578.9	25.9
70°-80°	2677.2	15.1
80°-90°	115.7	0.7
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°	17696.0	100.0
0°-180°	17696.0	100.0

Coefficient of Utilization



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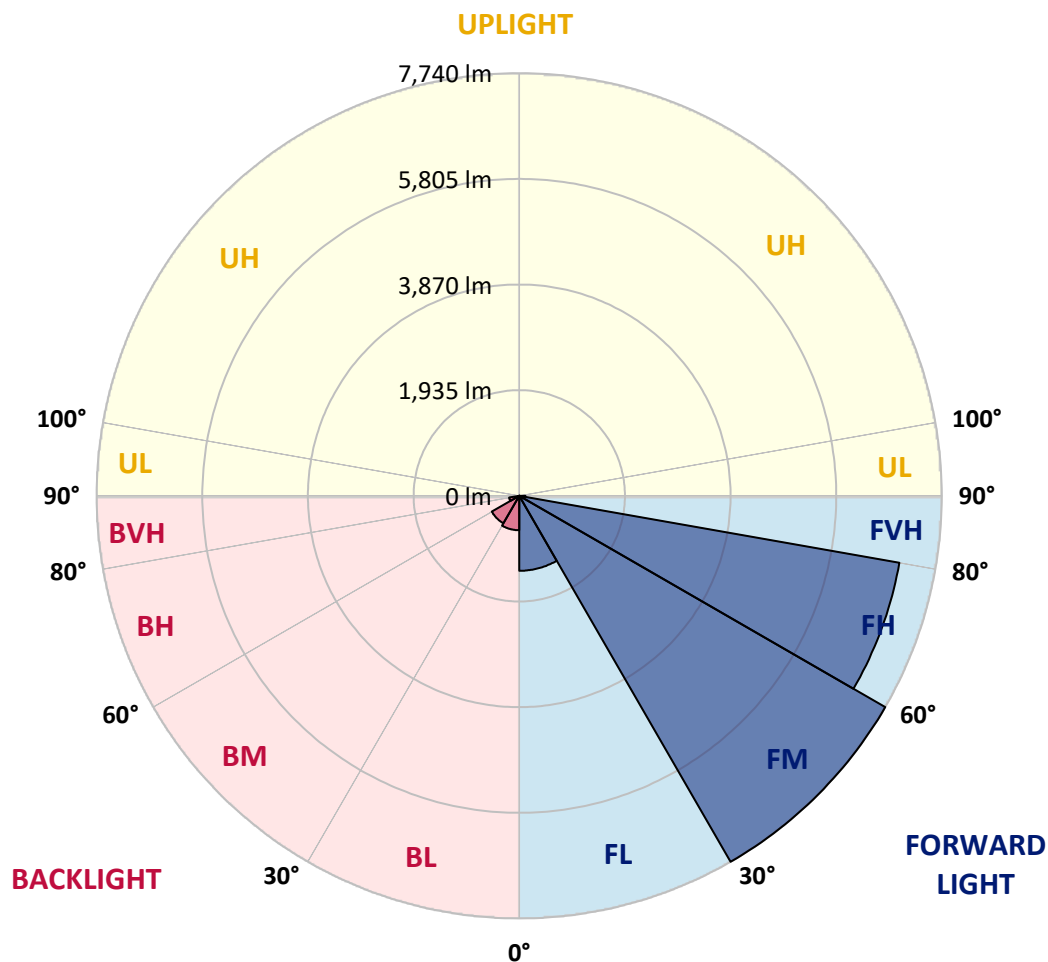
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.0	7.8			
FM	(30°-60°)	7739.7	43.7			
FH	(60°-80°)	7068.4	39.9			G3/7500
FVH	(80°-90°)	113.9	0.6			G2/225
BL	(0°-30°)	630.6	3.6	B2/1000		
BM	(30°-60°)	580.9	3.3	B1/1000		
BH	(60°-80°)	187.7	1.1	B1/500		G1/500
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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7
2.5°	3312.6	3316.6	3330.9	3337.3	3352.3	3377.8	3390.5	3391.3	3411.9	3419.9	3426.2
5°	3078.2	3102.1	3125.9	3151.3	3197.4	3258.6	3319.0	3324.5	3391.3	3440.5	3466.8
7.5°	2876.4	2897.8	2926.5	2967.0	3032.1	3128.3	3229.2	3241.1	3367.4	3479.5	3538.3
10°	2669.0	2686.5	2727.8	2787.4	2877.2	3005.9	3141.8	3161.6	3346.0	3531.9	3635.2
12.5°	2447.3	2457.6	2507.7	2593.5	2725.4	2889.1	3067.9	3094.1	3332.5	3592.3	3749.6
15°	2278.9	2283.6	2331.3	2420.3	2571.3	2784.2	3010.7	3042.5	3335.7	3664.6	3874.4
17.5°	2236.0	2238.3	2263.8	2325.0	2458.4	2690.5	2965.4	3004.3	3345.2	3735.3	3999.9
20°	2410.0	2393.3	2367.1	2357.5	2414.7	2634.0	2938.4	2982.1	3357.9	3798.1	4112.8
22.5°	2887.5	2838.3	2729.4	2584.0	2495.8	2638.0	2945.5	2989.2	3398.4	3875.2	4243.1
25°	3596.3	3528.0	3342.8	3056.8	2781.8	2752.4	3005.1	3049.6	3477.1	3967.4	4367.8
27.5°	4402.8	4335.2	4108.8	3700.4	3231.6	2978.9	3141.8	3183.1	3593.9	4049.2	4463.2
30°	5175.1	5156.1	4889.1	4425.0	3797.3	3346.0	3318.2	3353.1	3680.5	4098.5	4538.7
32.5°	5829.9	5799.7	5585.1	5133.8	4444.9	3787.0	3525.6	3535.9	3745.7	4162.0	4637.2
35°	6436.9	6399.6	6211.3	5784.6	5109.2	4325.7	3845.0	3829.9	3887.9	4290.0	4780.2
37.5°	6966.9	7001.1	6792.1	6386.1	5705.1	4885.9	4275.7	4230.4	4110.4	4498.1	4987.6
40°	7410.3	7410.3	7301.4	6962.9	6348.7	5465.1	4762.7	4703.1	4444.9	4819.2	5250.6
42.5°	7570.0	7604.2	7644.7	7453.2	6924.8	6067.4	5305.4	5243.5	4916.1	5274.4	5582.7
45°	7579.5	7633.6	7841.0	7840.2	7445.2	6665.8	5917.3	5887.9	5520.0	5859.3	5994.3
47.5°	7445.2	7512.8	7854.5	8048.3	7857.6	7222.8	6586.3	6549.8	6229.5	6576.0	6425.0
50°	7237.9	7312.6	7709.8	8130.2	8138.1	7707.5	7291.1	7236.3	7010.6	7395.2	6870.0
52.5°	6866.8	7011.4	7580.3	8149.3	8322.5	8126.2	7961.7	7937.9	7884.7	8184.2	7224.4
55°	6073.0	6233.5	7255.3	8155.6	8493.3	8497.3	8590.2	8596.6	8703.9	8921.6	7488.2
57.5°	5698.0	5788.5	6688.0	8185.8	8746.8	8918.4	9230.7	9279.9	9446.0	9621.6	7789.3
60°	5462.0	5569.2	6408.3	8144.5	9144.9	9470.6	9824.2	9840.9	10018.9	10343.9	8196.9
62.5°	5273.7	5379.3	6231.9	7985.6	9592.2	10134.9	10404.3	10405.9	10539.4	11204.4	8660.2
65°	4808.8	4897.8	5875.2	7806.8	9887.8	10792.0	11078.1	11067.8	11176.6	12111.8	9198.1
67.5°	4136.6	4204.9	5146.5	7129.0	9776.6	11389.6	12095.2	12061.0	11929.1	12896.1	9409.5
70°	3198.2	3222.8	4056.3	5941.1	8734.1	11619.2	13078.1	13060.6	12390.7	12755.5	8634.7
71°	2643.6	2724.6	3574.8	5243.5	8035.6	11407.0	13173.4	13183.7	12274.7	12372.5	8101.6
72.5°	1535.1	1604.3	2591.1	4027.0	6822.3	10521.9	12679.2	12753.9	11732.8	11253.7	6920.0
75°	329.0	352.0	960.7	1949.1	3752.8	7374.5	10007.8	10274.0	9562.8	7655.8	4170.8
77.5°	228.8	247.1	411.6	884.4	1240.3	3644.0	6216.8	6517.2	5713.1	2877.2	1334.9
80°	181.2	201.8	321.0	437.0	335.3	1175.2	2912.1	3095.7	1905.4	642.0	224.9
82.5°	100.9	120.0	250.3	236.0	128.7	223.3	815.2	921.7	381.4	129.5	53.2
85°	29.4	35.8	161.3	171.6	54.8	42.9	139.1	172.4	72.3	34.2	23.8
87.5°	0.0	0.0	77.9	66.0	15.9	6.4	12.7	14.3	14.3	14.3	15.9
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°	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7
2.5°	3426.2	3431.8	3411.9	3385.7	3357.9	3323.7	3288.0	3260.2	3259.4	3245.9	3232.4
5°	3468.4	3465.2	3410.4	3326.9	3228.4	3125.9	3028.2	2917.7	2881.2	2835.9	2820.8
7.5°	3546.2	3524.0	3408.0	3225.2	3009.1	2794.6	2572.9	2349.6	2254.2	2168.4	2153.3
10°	3644.0	3601.8	3392.9	3072.7	2676.2	2280.5	1945.9	1642.4	1508.9	1406.4	1401.6
12.5°	3745.7	3681.3	3350.8	2842.2	2239.9	1683.7	1298.3	999.6	888.3	816.8	823.2
15°	3852.1	3756.0	3260.2	2531.5	1743.3	1142.6	797.8	622.2	577.7	559.4	564.2
17.5°	3961.0	3807.6	3133.8	2157.3	1253.1	737.4	552.2	503.0	503.0	506.9	508.5
20°	4055.6	3835.5	2947.9	1737.8	849.4	537.1	483.1	476.0	479.9	486.3	487.1
22.5°	4149.3	3837.0	2705.6	1312.7	594.3	470.4	460.1	456.9	459.3	466.4	467.2
25°	4225.6	3818.0	2402.0	933.6	474.4	443.4	438.6	437.0	438.6	447.4	447.4
27.5°	4256.6	3748.8	2031.8	656.3	425.1	413.2	411.6	413.2	415.6	421.9	422.7
30°	4259.8	3628.1	1628.1	475.2	385.4	372.7	375.8	381.4	379.0	377.4	379.0
32.5°	4267.7	3488.2	1234.8	390.9	352.0	332.1	328.2	328.2	318.6	313.1	309.9
35°	4293.9	3323.7	895.5	351.2	317.8	294.8	279.7	262.2	243.9	234.4	232.0
37.5°	4335.2	3151.3	641.2	325.0	287.6	261.4	232.8	201.8	175.6	168.5	168.5
40°	4410.7	2973.3	474.4	304.3	263.8	231.2	188.3	147.8	124.0	120.0	120.0
42.5°	4529.9	2785.8	378.2	286.1	243.1	200.2	143.8	107.3	89.8	87.4	86.6
45°	4653.9	2579.2	330.5	268.6	220.9	164.5	106.5	79.5	69.1	66.7	66.7
47.5°	4777.8	2359.1	307.5	251.9	199.4	127.9	79.5	62.8	58.0	58.0	58.8
50°	4882.7	2129.5	290.8	233.6	171.6	96.9	62.8	53.2	51.6	54.8	55.6
52.5°	4908.9	1903.8	270.2	210.6	137.5	73.9	51.6	46.9	46.9	46.9	46.9
55°	4893.0	1729.0	243.1	182.0	101.7	58.8	44.5	41.3	40.5	40.5	40.5
57.5°	4947.1	1625.7	194.7	141.4	73.1	47.7	38.9	36.6	35.0	34.2	34.2
60°	5055.9	1558.2	139.1	101.7	54.8	39.7	33.4	31.0	28.6	27.0	27.0
62.5°	5200.6	1499.4	103.3	75.5	42.1	31.8	27.8	25.4	22.2	20.7	20.7
65°	5311.8	1394.5	78.7	56.4	31.8	25.4	21.5	20.7	15.9	14.3	13.5
67.5°	5141.8	1164.1	63.6	41.3	23.8	19.9	16.7	15.9	9.5	7.9	7.9
70°	4409.9	810.5	50.9	30.2	17.5	15.9	13.5	10.3	7.2	6.4	6.4
71°	3999.1	677.0	46.1	25.4	15.1	15.1	12.7	8.7	6.4	5.6	5.6
72.5°	3322.2	480.7	38.9	19.9	13.5	15.9	13.5	7.9	6.4	5.6	4.8
75°	1928.5	201.0	27.0	13.5	10.3	19.1	17.5	7.2	4.8	4.0	4.0
77.5°	580.0	73.9	15.1	8.7	7.9	16.7	19.9	6.4	2.4	0.8	0.8
80°	105.7	31.8	9.5	5.6	5.6	10.3	15.1	3.2	0.0	0.0	0.0
82.5°	37.3	15.9	5.6	3.2	2.4	4.8	7.2	0.0	0.0	0.0	0.0
85°	21.5	11.1	3.2	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.3	3.2	0.0	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)