

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: P321510

Luminaire Tested: **GAN-SA6A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321510
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-SA6A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 17928 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

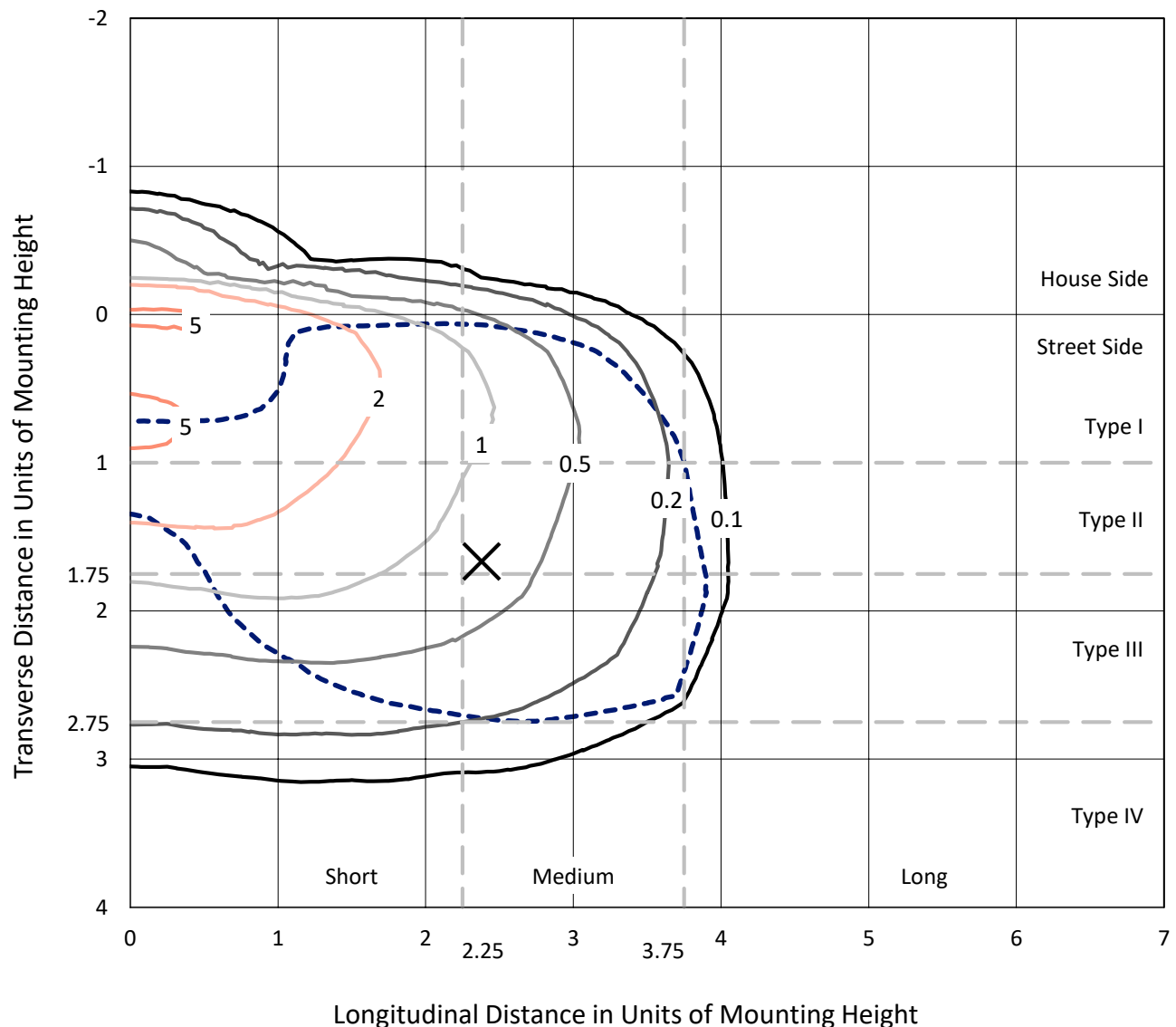
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

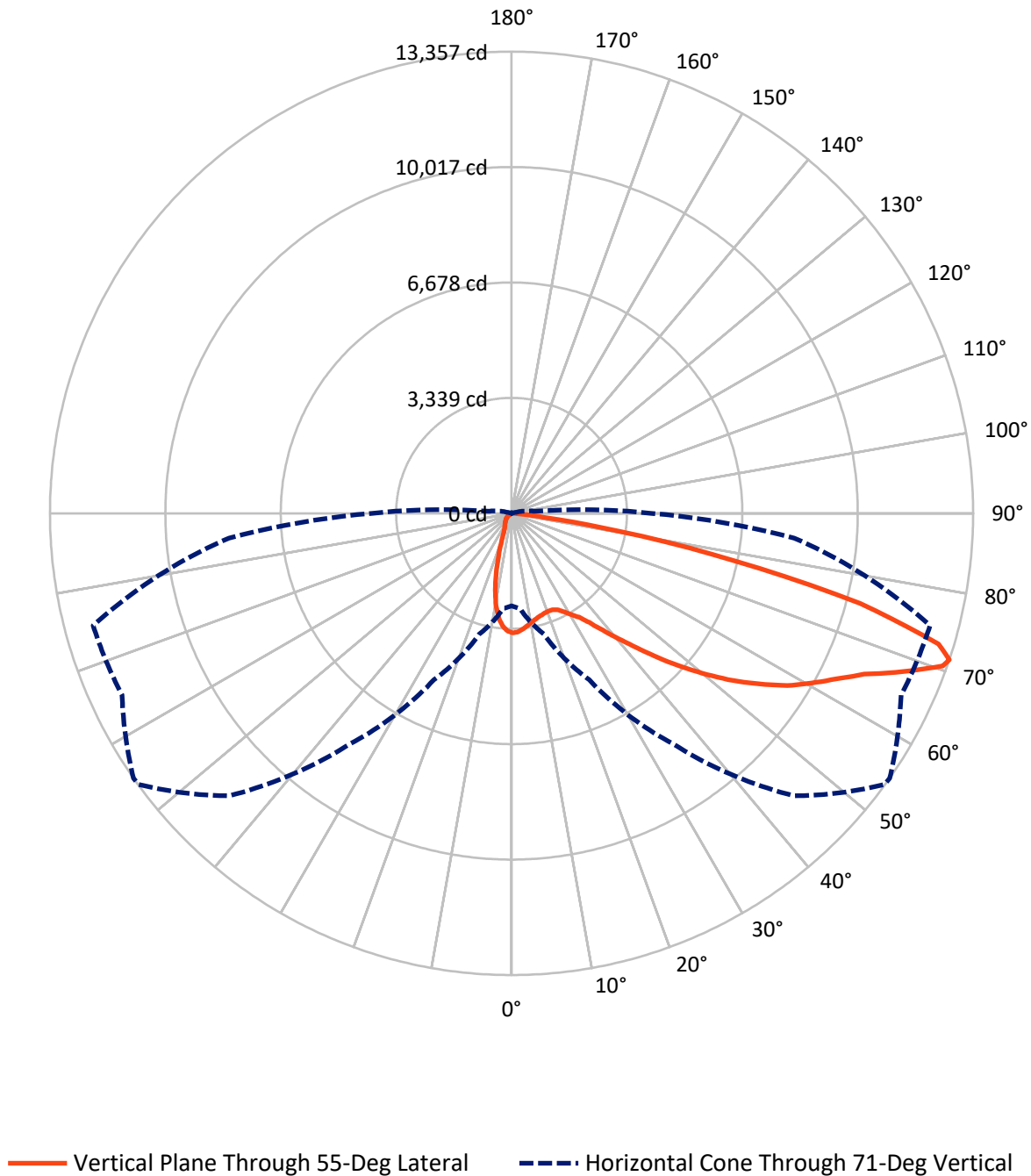
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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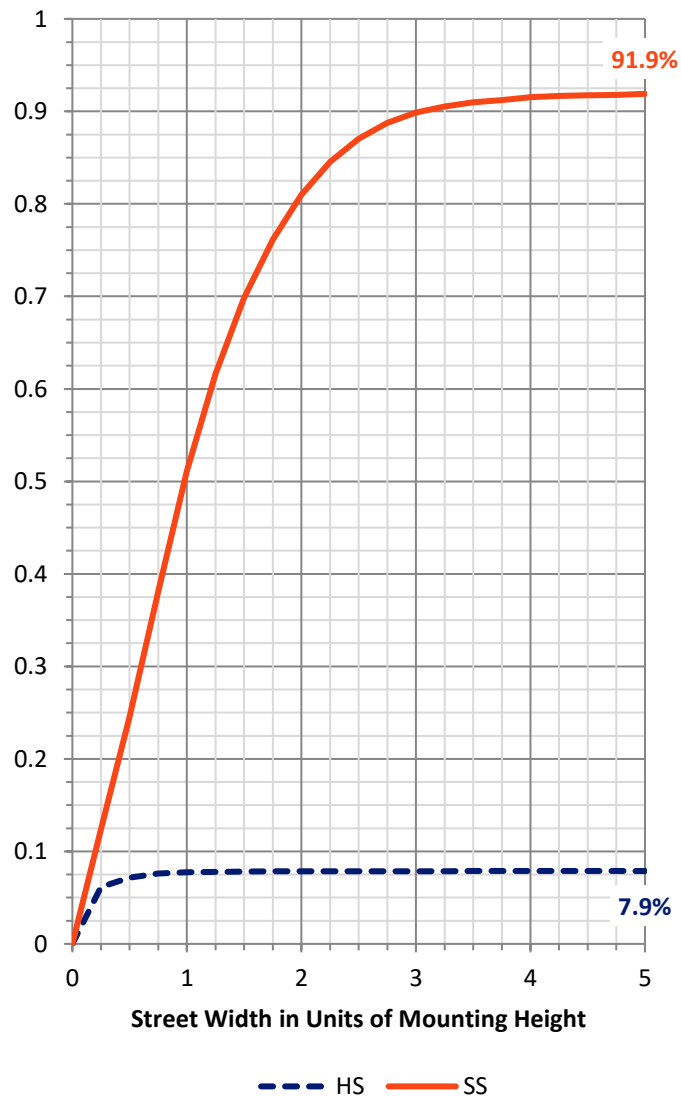
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1419.4	0.0	1419.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16508.6	0.0	16508.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	17928.0	0.0	17928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.6
10°-20°	665.5	3.7
20°-30°	1069.5	6.0
30°-40°	1817.2	10.1
40°-50°	2820.5	15.7
50°-60°	3792.1	21.2
60°-70°	4638.9	25.9
70°-80°	2712.3	15.1
80°-90°	117.2	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°	17928.0	100.0
0°-180°	17928.0	100.0

Coefficient of Utilization



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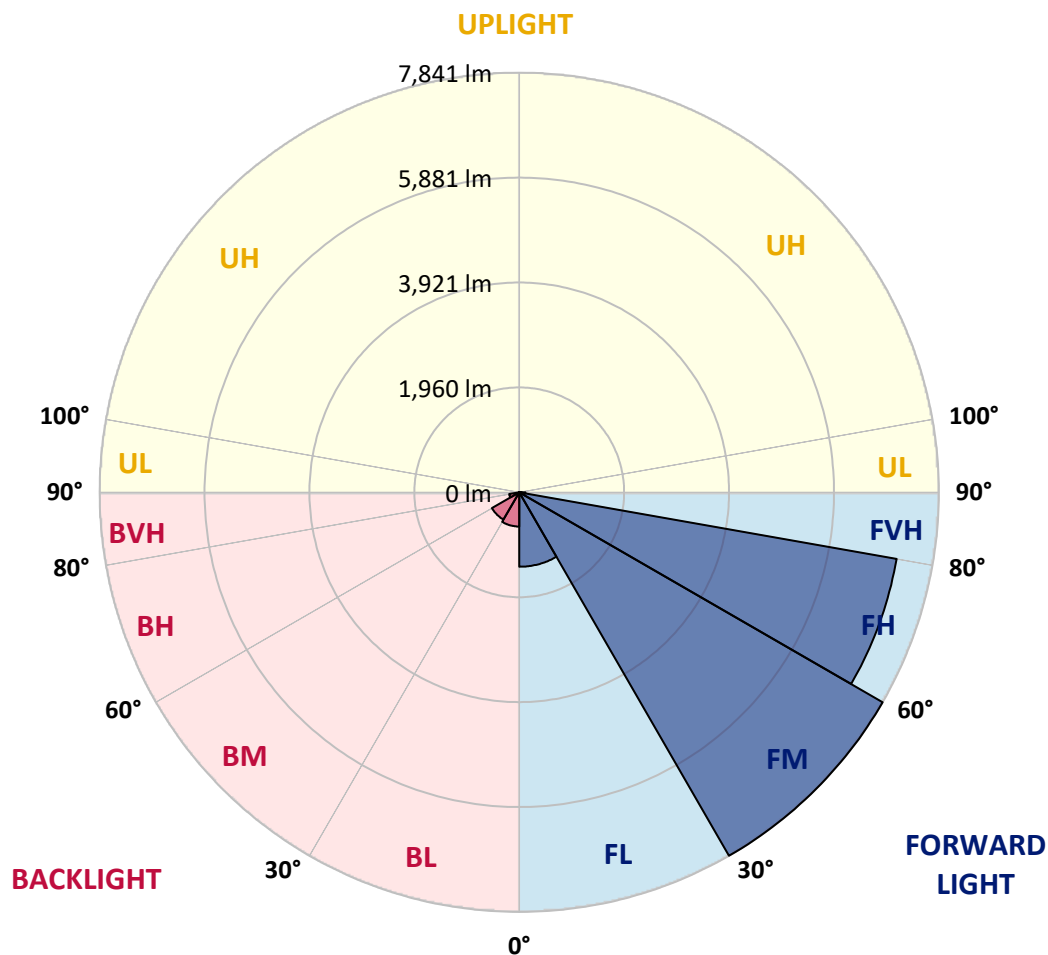
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.0	7.8			
FM	(30°-60°)	7841.2	43.7			
FH	(60°-80°)	7161.0	39.9			G3/7500
FVH	(80°-90°)	115.4	0.6			G2/225
BL	(0°-30°)	638.9	3.6	B2/1000		
BM	(30°-60°)	588.5	3.3	B1/1000		
BH	(60°-80°)	190.2	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°	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5
2.5°	3356.0	3360.1	3374.6	3381.0	3396.3	3422.1	3434.9	3435.7	3456.7	3464.7	3471.2
5°	3118.6	3142.7	3166.9	3192.6	3239.3	3301.3	3362.5	3368.1	3435.7	3485.7	3512.2
7.5°	2914.1	2935.8	2964.8	3005.9	3071.9	3169.3	3271.5	3283.6	3411.6	3525.1	3584.7
10°	2704.0	2721.7	2763.6	2823.9	2914.9	3045.3	3183.0	3203.1	3389.9	3578.2	3682.9
12.5°	2479.4	2489.9	2540.6	2627.5	2761.2	2927.0	3108.1	3134.7	3376.2	3639.4	3798.8
15°	2308.7	2313.6	2361.9	2452.0	2605.0	2820.7	3050.1	3082.3	3379.4	3712.7	3925.2
17.5°	2265.3	2267.7	2293.4	2355.4	2490.7	2725.7	3004.3	3043.7	3389.1	3784.3	4052.4
20°	2441.6	2424.7	2398.1	2388.4	2446.4	2668.6	2976.9	3021.2	3401.9	3847.9	4166.7
22.5°	2925.4	2875.5	2765.2	2617.9	2528.5	2672.6	2984.1	3028.4	3443.0	3926.0	4298.7
25°	3643.4	3574.2	3386.6	3096.8	2818.3	2788.5	3044.5	3089.6	3522.7	4019.4	4425.1
27.5°	4460.5	4392.1	4162.7	3748.9	3273.9	3017.9	3183.0	3224.8	3641.0	4102.3	4521.7
30°	5243.0	5223.7	4953.2	4483.1	3847.1	3389.9	3361.7	3397.1	3728.8	4152.2	4598.2
32.5°	5906.3	5875.7	5658.4	5201.1	4503.2	3836.6	3571.8	3582.3	3794.8	4216.6	4698.0
35°	6521.3	6483.5	6292.7	5860.4	5176.2	4382.4	3895.4	3880.1	3938.9	4346.2	4842.9
37.5°	7058.2	7092.9	6881.1	6469.8	5779.9	4950.0	4331.7	4285.8	4164.3	4557.1	5053.0
40°	7507.4	7507.4	7397.2	7054.2	6432.0	5536.8	4825.2	4764.8	4503.2	4882.3	5319.4
42.5°	7669.2	7703.9	7744.9	7550.9	7015.6	6147.0	5375.0	5312.2	4980.5	5343.6	5655.9
45°	7678.9	7733.6	7943.7	7942.9	7542.9	6753.2	5994.8	5965.1	5592.3	5936.1	6072.9
47.5°	7542.9	7611.3	7957.4	8153.9	7960.7	7317.5	6672.7	6635.6	6311.2	6662.2	6509.2
50°	7332.8	7408.4	7810.9	8236.8	8244.8	7808.5	7386.7	7331.1	7102.5	7492.1	6960.0
52.5°	6956.8	7103.3	7679.7	8256.1	8431.6	8232.7	8066.1	8042.0	7988.0	8291.5	7319.1
55°	6152.6	6315.2	7350.5	8262.5	8604.7	8608.7	8702.9	8709.3	8818.0	9038.6	7586.3
57.5°	5772.7	5864.4	6775.7	8293.1	8861.5	9035.3	9351.7	9401.6	9569.9	9747.8	7891.4
60°	5533.6	5642.3	6492.3	8251.3	9264.8	9594.8	9953.0	9969.9	10150.3	10479.5	8304.4
62.5°	5342.8	5449.9	6313.6	8090.3	9718.0	10267.8	10540.7	10542.3	10677.5	11351.3	8773.7
65°	4871.9	4962.0	5952.2	7909.1	10017.4	10933.5	11223.3	11212.9	11323.1	12270.6	9318.7
67.5°	4190.8	4260.1	5214.0	7222.5	9904.7	11538.9	12253.7	12219.1	12085.5	13065.2	9532.8
70°	3240.1	3265.1	4109.5	6019.0	8848.6	11771.5	13249.5	13231.8	12553.2	12922.7	8747.9
71°	2678.2	2760.3	3621.7	5312.2	8141.0	11556.6	13346.1	13356.6	12435.7	12534.7	8207.8
72.5°	1555.3	1625.3	2625.1	4079.7	6911.7	10659.8	12845.4	12921.1	11886.6	11401.2	7010.8
75°	333.3	356.6	973.2	1974.7	3802.0	7471.2	10139.0	10408.7	9688.2	7756.2	4225.5
77.5°	231.8	250.4	417.0	896.0	1256.6	3691.7	6298.3	6602.6	5788.0	2914.9	1352.4
80°	183.5	204.5	325.2	442.8	339.7	1190.6	2950.3	3136.3	1930.4	650.4	227.8
82.5°	102.2	121.6	253.6	239.1	130.4	226.2	825.9	933.8	386.4	131.2	53.9
85°	29.8	36.2	163.4	173.9	55.5	43.5	140.9	174.7	73.3	34.6	24.2
87.5°	0.0	0.0	78.9	66.8	16.1	6.4	12.9	14.5	14.5	14.5	16.1
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°	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5	3457.5
2.5°	3471.2	3476.8	3456.7	3430.1	3401.9	3367.3	3331.1	3302.9	3302.1	3288.4	3274.7
5°	3513.8	3510.6	3455.1	3370.5	3270.7	3166.9	3067.9	2956.0	2918.9	2873.0	2857.8
7.5°	3592.7	3570.2	3452.6	3267.5	3048.5	2831.2	2606.6	2380.4	2283.8	2196.8	2181.6
10°	3691.7	3649.1	3437.4	3112.9	2711.2	2310.4	1971.4	1663.9	1528.7	1424.9	1420.0
12.5°	3794.8	3729.6	3394.7	2879.5	2269.3	1705.8	1315.4	1012.7	900.0	827.5	834.0
15°	3902.6	3805.2	3302.9	2564.7	1766.2	1157.6	808.2	630.3	585.2	566.7	571.6
17.5°	4012.9	3857.6	3174.9	2185.6	1269.5	747.0	559.5	509.6	509.6	513.6	515.2
20°	4108.7	3885.7	2986.6	1760.5	860.5	544.2	489.4	482.2	486.2	492.7	493.5
22.5°	4203.7	3887.3	2741.0	1329.9	602.1	476.6	466.1	462.9	465.3	472.5	473.3
25°	4281.0	3868.0	2433.5	945.9	480.6	449.2	444.4	442.8	444.4	453.2	453.2
27.5°	4312.4	3798.0	2058.4	664.9	430.7	418.6	417.0	418.6	421.0	427.5	428.3
30°	4315.6	3675.6	1649.4	481.4	390.4	377.5	380.8	386.4	384.0	382.4	384.0
32.5°	4323.7	3534.0	1251.0	396.1	356.6	336.5	332.5	332.5	322.8	317.2	314.0
35°	4350.2	3367.3	907.2	355.8	322.0	298.7	283.4	265.7	247.1	237.5	235.1
37.5°	4392.1	3192.6	649.6	329.2	291.4	264.8	235.9	204.5	177.9	170.7	170.7
40°	4468.6	3012.3	480.6	308.3	267.3	234.3	190.8	149.7	125.6	121.6	121.6
42.5°	4589.3	2822.3	383.2	289.8	246.3	202.9	145.7	108.7	91.0	88.6	87.7
45°	4714.9	2613.0	334.9	272.1	223.8	166.6	107.9	80.5	70.0	67.6	67.6
47.5°	4840.5	2390.0	311.5	255.2	202.1	129.6	80.5	63.6	58.8	58.8	59.6
50°	4946.7	2157.4	294.6	236.7	173.9	98.2	63.6	53.9	52.3	55.5	56.4
52.5°	4973.3	1928.8	273.7	213.3	139.3	74.9	52.3	47.5	47.5	47.5	47.5
55°	4957.2	1751.7	246.3	184.3	103.0	59.6	45.1	41.9	41.1	41.1	41.1
57.5°	5011.9	1647.0	197.2	143.3	74.1	48.3	39.4	37.0	35.4	34.6	34.6
60°	5122.2	1578.6	140.9	103.0	55.5	40.3	33.8	31.4	29.0	27.4	27.4
62.5°	5268.7	1519.0	104.7	76.5	42.7	32.2	28.2	25.8	22.5	20.9	20.9
65°	5381.4	1412.8	79.7	57.2	32.2	25.8	21.7	20.9	16.1	14.5	13.7
67.5°	5209.2	1179.3	64.4	41.9	24.2	20.1	16.9	16.1	9.7	8.1	8.1
70°	4467.8	821.1	51.5	30.6	17.7	16.1	13.7	10.5	7.2	6.4	6.4
71°	4051.6	685.9	46.7	25.8	15.3	15.3	12.9	8.9	6.4	5.6	5.6
72.5°	3365.7	487.0	39.4	20.1	13.7	16.1	13.7	8.1	6.4	5.6	4.8
75°	1953.7	203.7	27.4	13.7	10.5	19.3	17.7	7.2	4.8	4.0	4.0
77.5°	587.7	74.9	15.3	8.9	8.1	16.9	20.1	6.4	2.4	0.8	0.8
80°	107.1	32.2	9.7	5.6	5.6	10.5	15.3	3.2	0.0	0.0	0.0
82.5°	37.8	16.1	5.6	3.2	2.4	4.8	7.2	0.0	0.0	0.0	0.0
85°	21.7	11.3	3.2	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.5	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)