

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: P321528

Luminaire Tested: **GAN-SA4C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321528
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-SA4C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 18352 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

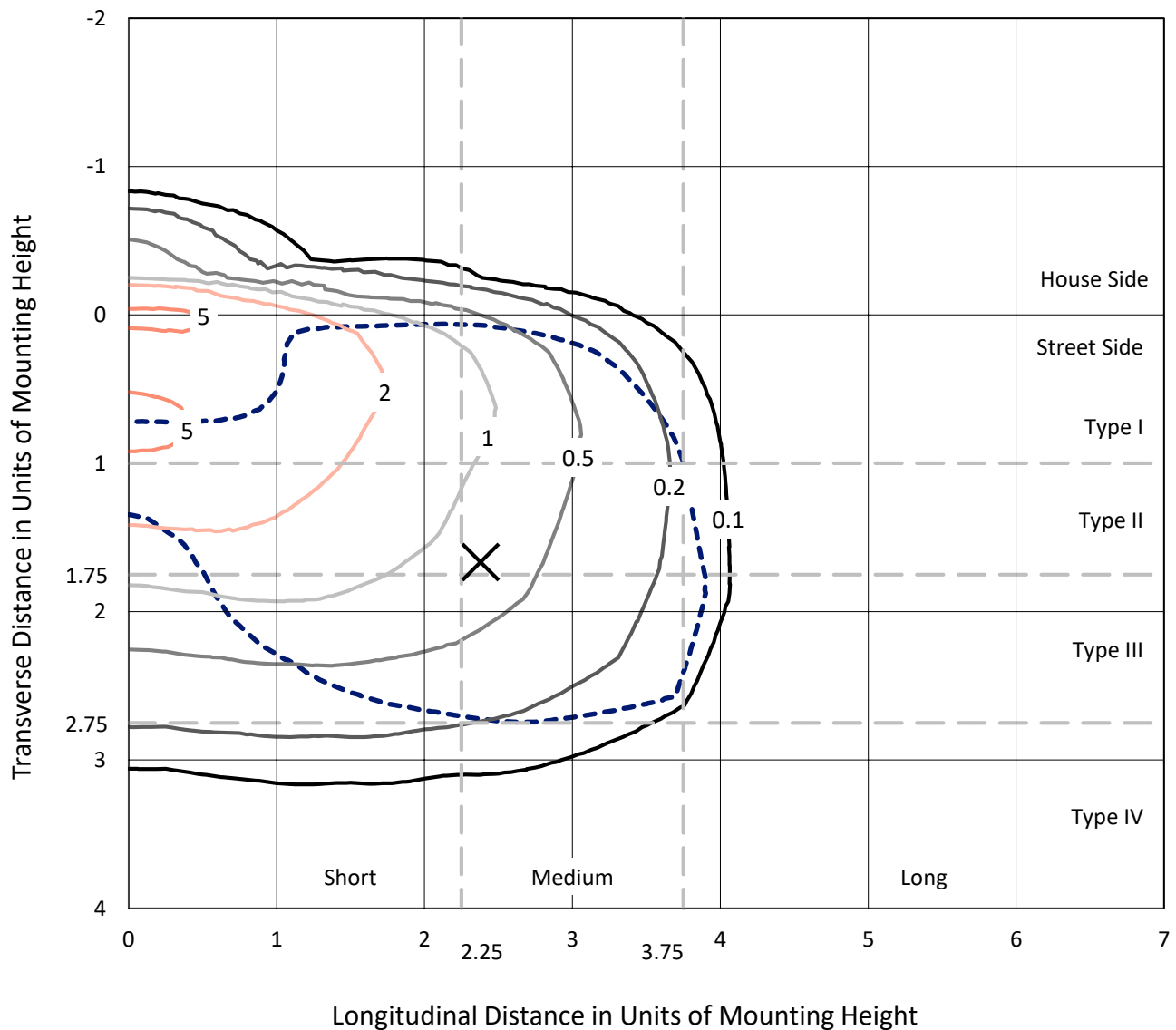
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

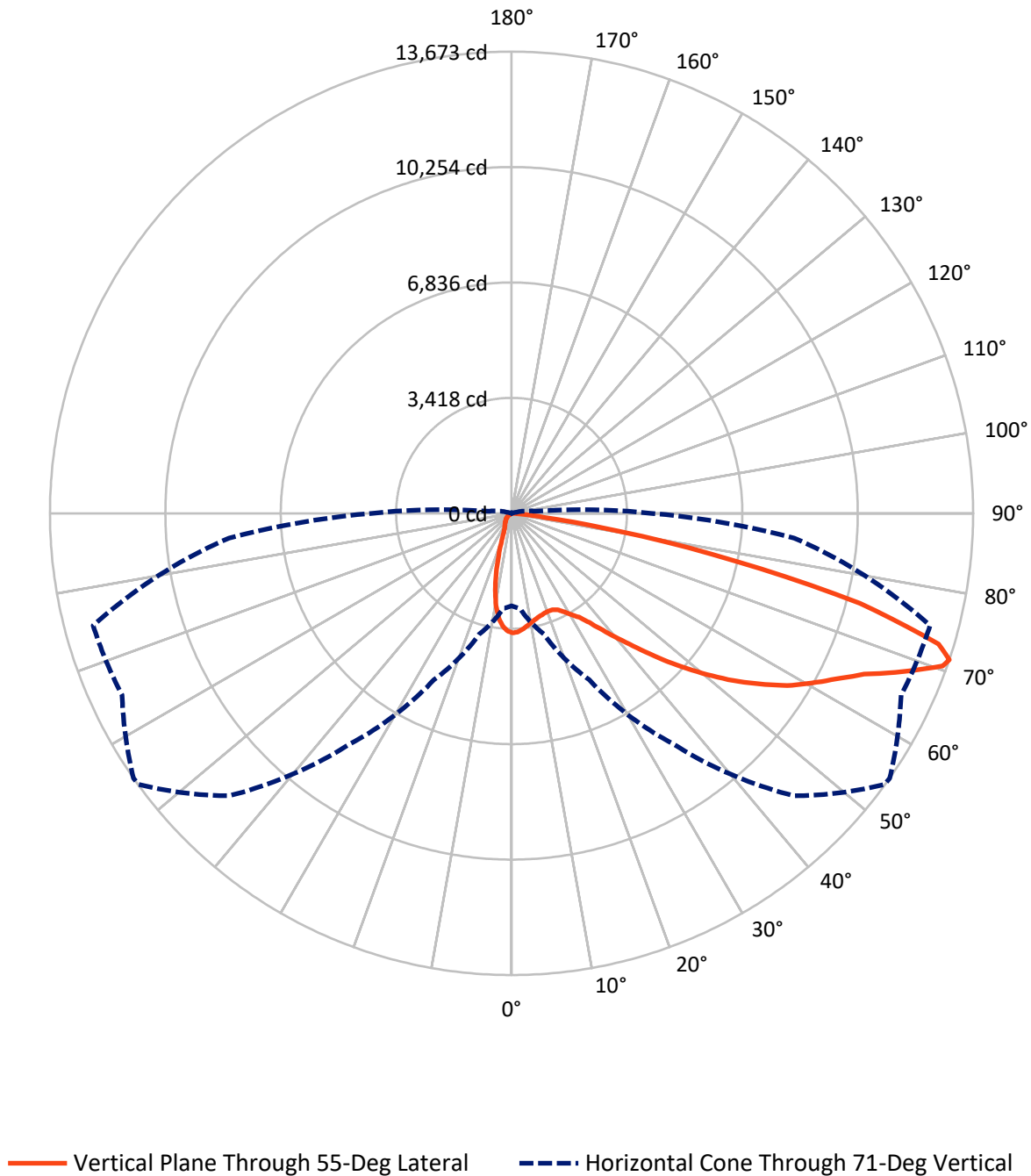
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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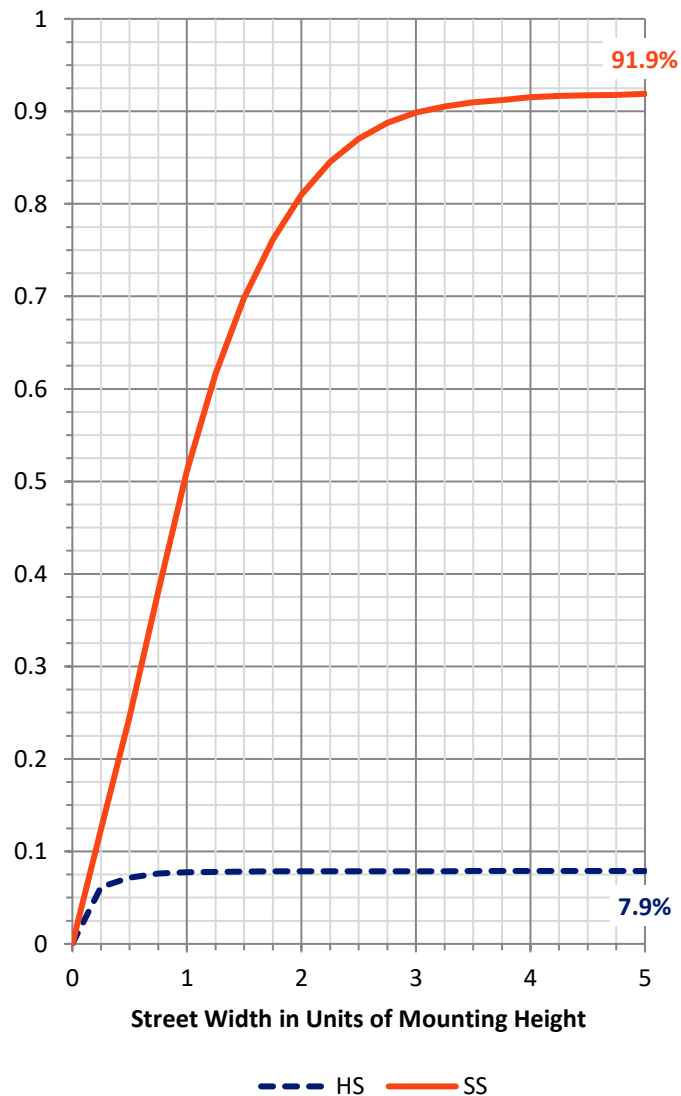
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.0	0.0	1453.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16899.0	0.0	16899.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	18352.0	0.0	18352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	1.6
10°-20°	681.3	3.7
20°-30°	1094.8	6.0
30°-40°	1860.1	10.1
40°-50°	2887.2	15.7
50°-60°	3881.7	21.2
60°-70°	4748.6	25.9
70°-80°	2776.4	15.1
80°-90°	120.0	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°	18352.0	100.0
0°-180°	18352.0	100.0

Coefficient of Utilization



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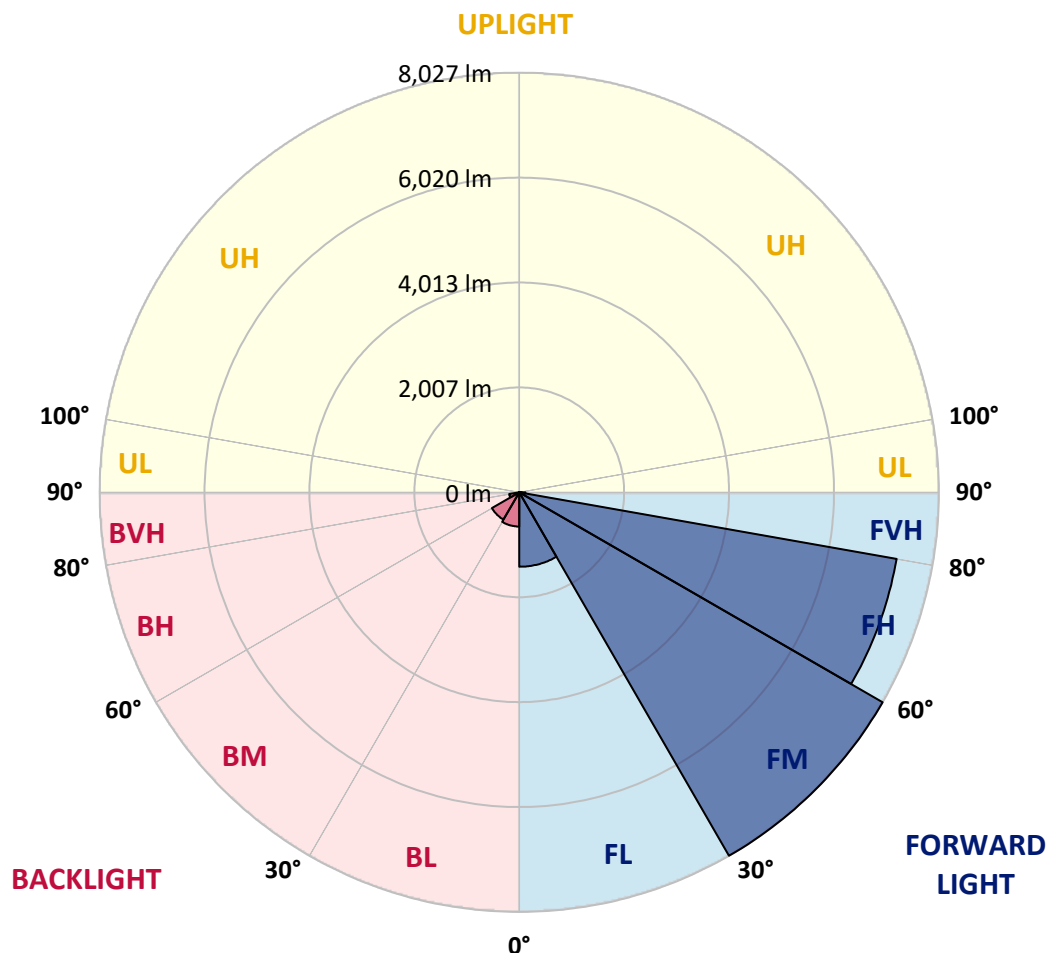
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.9	7.8			
FM	(30°-60°)	8026.6	43.7			
FH	(60°-80°)	7330.4	39.9			G3/7500
FVH	(80°-90°)	118.1	0.6			G2/225
BL	(0°-30°)	654.0	3.6	B2/1000		
BM	(30°-60°)	602.4	3.3	B1/1000		
BH	(60°-80°)	194.7	1.1	B1/500		G1/500
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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3435.4	3439.5	3454.4	3461.0	3476.6	3503.0	3516.2	3517.0	3538.4	3546.7	3553.3
5°	3192.3	3217.0	3241.8	3268.1	3315.9	3379.4	3442.0	3447.8	3517.0	3568.1	3595.3
7.5°	2983.0	3005.3	3034.9	3077.0	3144.5	3244.2	3348.9	3361.3	3492.3	3608.5	3669.4
10°	2767.9	2786.1	2828.9	2890.7	2983.8	3117.3	3258.3	3278.9	3470.0	3662.9	3770.0
12.5°	2538.0	2548.8	2600.7	2689.7	2826.5	2996.2	3181.6	3208.8	3456.0	3725.5	3888.6
15°	2363.3	2368.3	2417.7	2510.0	2666.6	2887.4	3122.3	3155.2	3459.3	3800.5	4018.0
17.5°	2318.8	2321.3	2347.7	2411.1	2549.6	2790.2	3075.3	3115.7	3469.2	3873.8	4148.2
20°	2499.3	2482.0	2454.8	2444.9	2504.3	2731.7	3047.3	3092.6	3482.4	3938.9	4265.2
22.5°	2994.6	2943.5	2830.6	2679.8	2588.3	2735.8	3054.7	3100.0	3524.4	4018.8	4400.4
25°	3729.6	3658.7	3466.7	3170.1	2885.0	2854.5	3116.5	3162.7	3606.0	4114.4	4529.7
27.5°	4566.0	4496.0	4261.1	3837.6	3351.4	3089.3	3258.3	3301.1	3727.1	4199.3	4628.6
30°	5367.0	5347.2	5070.3	4589.1	3938.1	3470.0	3441.2	3477.4	3817.0	4250.4	4706.9
32.5°	6046.0	6014.7	5792.2	5324.1	4609.7	3927.4	3656.3	3667.0	3884.5	4316.3	4809.1
35°	6675.5	6636.8	6441.5	5999.0	5298.6	4486.1	3987.5	3971.9	4032.0	4449.0	4957.4
37.5°	7225.2	7260.6	7043.9	6622.8	5916.6	5067.0	4434.2	4387.2	4262.8	4664.9	5172.5
40°	7685.0	7685.0	7572.1	7221.1	6584.1	5667.7	4939.3	4877.5	4609.7	4997.8	5445.3
42.5°	7850.6	7886.1	7928.1	7729.5	7181.5	6292.4	5502.1	5437.8	5098.3	5470.0	5789.7
45°	7860.5	7916.5	8131.6	8130.8	7721.2	6912.9	6136.6	6106.1	5724.6	6076.5	6216.6
47.5°	7721.2	7791.3	8145.6	8346.7	8148.9	7490.5	6830.5	6792.6	6460.5	6819.7	6663.2
50°	7506.2	7583.6	7995.7	8431.6	8439.8	7993.2	7561.4	7504.5	7270.5	7669.3	7124.6
52.5°	7121.3	7271.3	7861.3	8451.3	8631.0	8427.5	8256.9	8232.2	8176.9	8487.6	7492.2
55°	6298.1	6464.6	7524.3	8457.9	8808.2	8812.3	8908.7	8915.3	9026.5	9252.3	7765.7
57.5°	5909.2	6003.1	6935.9	8489.3	9071.0	9249.0	9572.9	9624.0	9796.2	9978.3	8078.1
60°	5664.4	5775.7	6645.9	8446.4	9483.9	9821.7	10188.4	10205.7	10390.3	10727.3	8500.8
62.5°	5469.1	5578.7	6462.9	8281.6	9947.8	10510.6	10790.0	10791.6	10930.1	11619.8	8981.2
65°	4987.1	5079.4	6092.9	8096.2	10254.3	11192.1	11488.8	11478.0	11590.9	12560.8	9539.1
67.5°	4289.9	4360.8	5337.3	7393.3	10139.0	11811.8	12543.5	12508.1	12371.3	13374.2	9758.3
70°	3316.8	3342.3	4206.7	6161.3	9057.8	12049.9	13562.9	13544.7	12850.1	13228.3	8954.8
71°	2741.6	2825.6	3707.4	5437.8	8333.5	11829.9	13661.7	13672.5	12729.8	12831.1	8401.9
72.5°	1592.0	1663.7	2687.2	4176.2	7075.2	10911.9	13149.2	13226.7	12167.8	11670.9	7176.6
75°	341.2	365.0	996.3	2021.4	3891.9	7647.9	10378.8	10654.8	9917.3	7939.6	4325.4
77.5°	237.3	256.3	426.9	917.2	1286.3	3779.0	6447.3	6758.8	5924.8	2983.8	1384.4
80°	187.9	209.3	332.9	453.2	347.7	1218.8	3020.1	3210.5	1976.0	665.8	233.2
82.5°	104.7	124.4	259.6	244.7	133.5	231.6	845.5	955.9	395.5	134.3	55.2
85°	30.5	37.1	167.3	178.0	56.9	44.5	144.2	178.8	75.0	35.4	24.7
87.5°	0.0	0.0	80.8	68.4	16.5	6.6	13.2	14.8	14.8	14.8	16.5
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°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3553.3	3559.0	3538.4	3511.2	3482.4	3447.0	3409.9	3381.0	3380.2	3366.2	3352.2
5°	3596.9	3593.6	3536.8	3450.3	3348.1	3241.8	3140.4	3025.9	2988.0	2941.0	2925.3
7.5°	3677.7	3654.6	3534.3	3344.8	3120.6	2898.1	2668.2	2436.7	2337.8	2248.8	2233.1
10°	3779.0	3735.4	3518.6	3186.6	2775.4	2365.0	2018.1	1703.3	1564.9	1458.5	1453.6
12.5°	3884.5	3817.8	3475.0	2947.6	2323.0	1746.1	1346.5	1036.6	921.3	847.1	853.7
15°	3994.9	3895.2	3381.0	2625.4	1807.9	1185.0	827.3	645.2	599.1	580.1	585.1
17.5°	4107.8	3948.8	3250.0	2237.3	1299.5	764.7	572.7	521.6	521.6	525.7	527.4
20°	4205.9	3977.6	3057.2	1802.2	880.9	557.1	501.0	493.6	497.7	504.3	505.1
22.5°	4303.1	3979.3	2805.9	1361.3	616.4	487.8	477.1	473.8	476.3	483.7	484.5
25°	4382.2	3959.5	2491.1	968.2	492.0	459.8	454.9	453.2	454.9	463.9	463.9
27.5°	4414.4	3887.8	2107.1	680.7	440.9	428.5	426.9	428.5	431.0	437.6	438.4
30°	4417.7	3762.6	1688.5	492.8	399.7	386.5	389.8	395.5	393.1	391.4	393.1
32.5°	4425.9	3617.5	1280.6	405.4	365.0	344.4	340.3	340.3	330.4	324.7	321.4
35°	4453.1	3447.0	928.7	364.2	329.6	305.7	290.1	271.9	253.0	243.1	240.6
37.5°	4496.0	3268.1	665.0	337.0	298.3	271.1	241.4	209.3	182.1	174.7	174.7
40°	4574.2	3083.6	492.0	315.6	273.6	239.8	195.3	153.3	128.6	124.4	124.4
42.5°	4697.8	2889.1	392.2	296.7	252.2	207.7	149.2	111.2	93.1	90.6	89.8
45°	4826.4	2674.8	342.8	278.5	229.1	170.6	110.4	82.4	71.7	69.2	69.2
47.5°	4954.9	2446.6	318.9	261.2	206.8	132.7	82.4	65.1	60.2	60.2	61.0
50°	5063.7	2208.4	301.6	242.3	178.0	100.5	65.1	55.2	53.6	56.9	57.7
52.5°	5090.9	1974.4	280.2	218.4	142.6	76.6	53.6	48.6	48.6	48.6	48.6
55°	5074.4	1793.1	252.2	188.7	105.5	61.0	46.1	42.9	42.0	42.0	42.0
57.5°	5130.5	1686.0	201.9	146.7	75.8	49.4	40.4	37.9	36.3	35.4	35.4
60°	5243.4	1615.9	144.2	105.5	56.9	41.2	34.6	32.1	29.7	28.0	28.0
62.5°	5393.3	1555.0	107.1	78.3	43.7	33.0	28.8	26.4	23.1	21.4	21.4
65°	5508.7	1446.2	81.6	58.5	33.0	26.4	22.2	21.4	16.5	14.8	14.0
67.5°	5332.4	1207.2	65.9	42.9	24.7	20.6	17.3	16.5	9.9	8.2	8.2
70°	4573.4	840.5	52.7	31.3	18.1	16.5	14.0	10.7	7.4	6.6	6.6
71°	4147.4	702.1	47.8	26.4	15.7	15.7	13.2	9.1	6.6	5.8	5.8
72.5°	3445.3	498.5	40.4	20.6	14.0	16.5	14.0	8.2	6.6	5.8	4.9
75°	1999.9	208.5	28.0	14.0	10.7	19.8	18.1	7.4	4.9	4.1	4.1
77.5°	601.5	76.6	15.7	9.1	8.2	17.3	20.6	6.6	2.5	0.8	0.8
80°	109.6	33.0	9.9	5.8	5.8	10.7	15.7	3.3	0.0	0.0	0.0
82.5°	38.7	16.5	5.8	3.3	2.5	4.9	7.4	0.0	0.0	0.0	0.0
85°	22.2	11.5	3.3	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.8	3.3	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)