

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: P322820

Luminaire Tested: **GAN-SA6D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28128 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

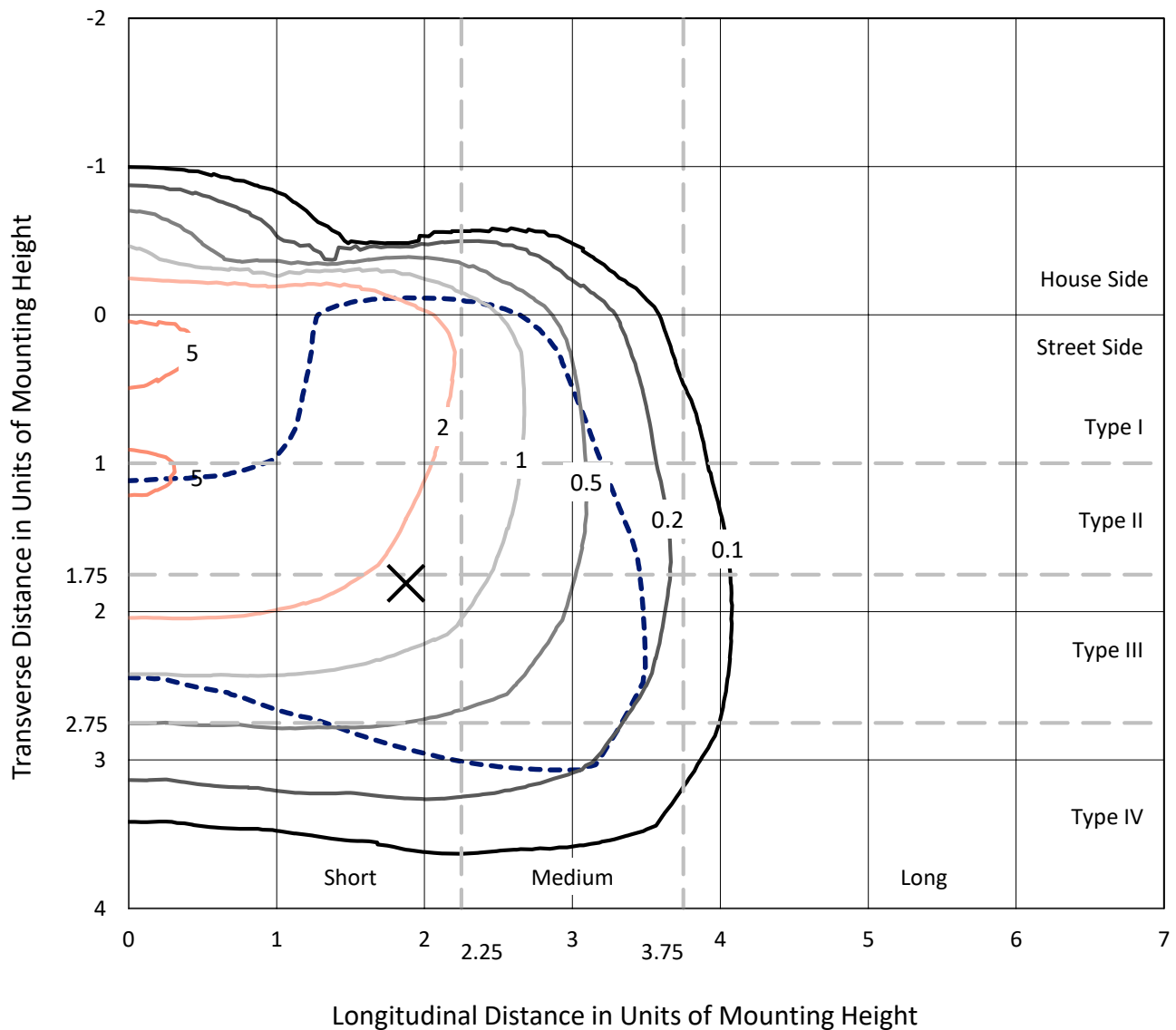
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

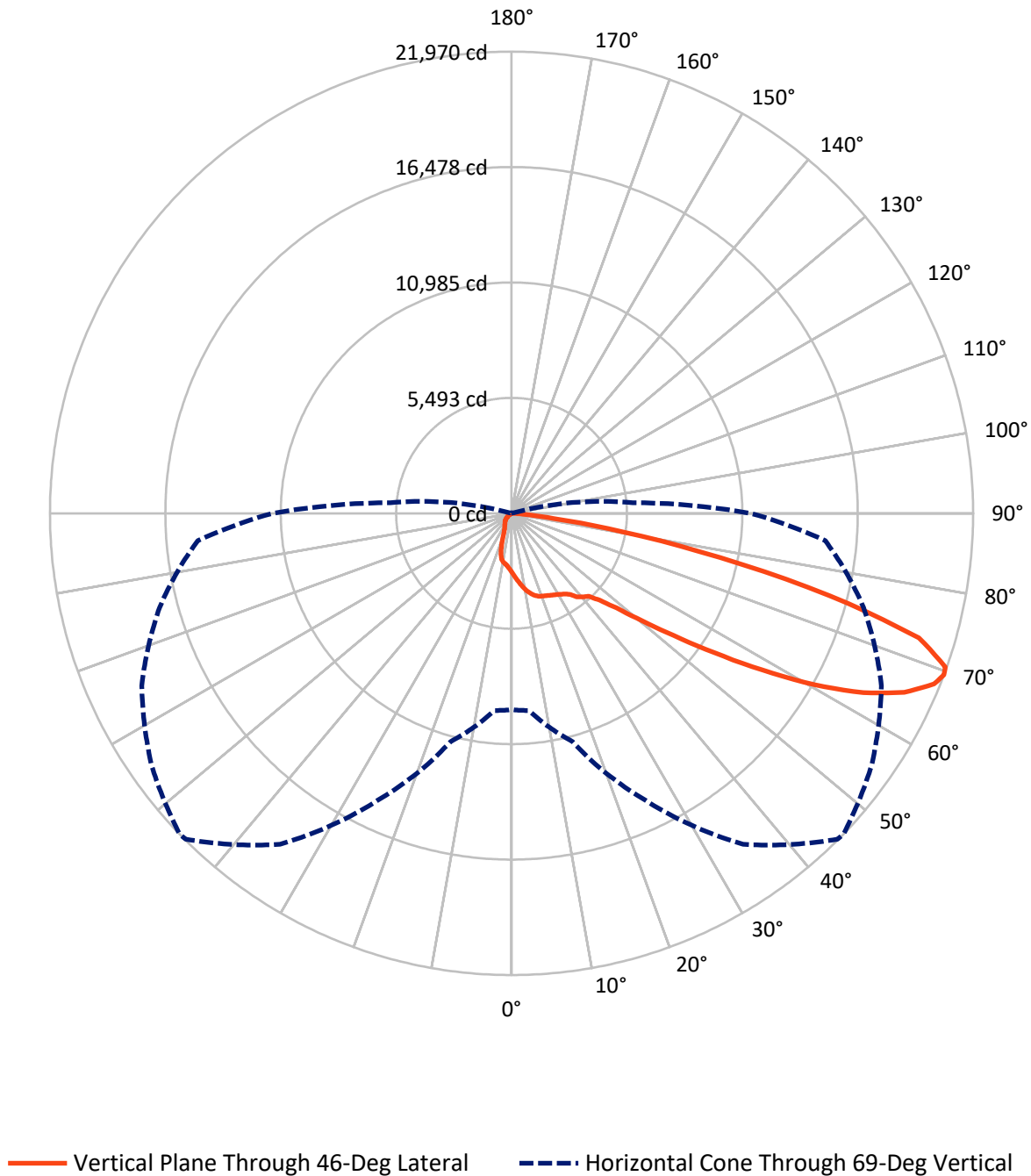
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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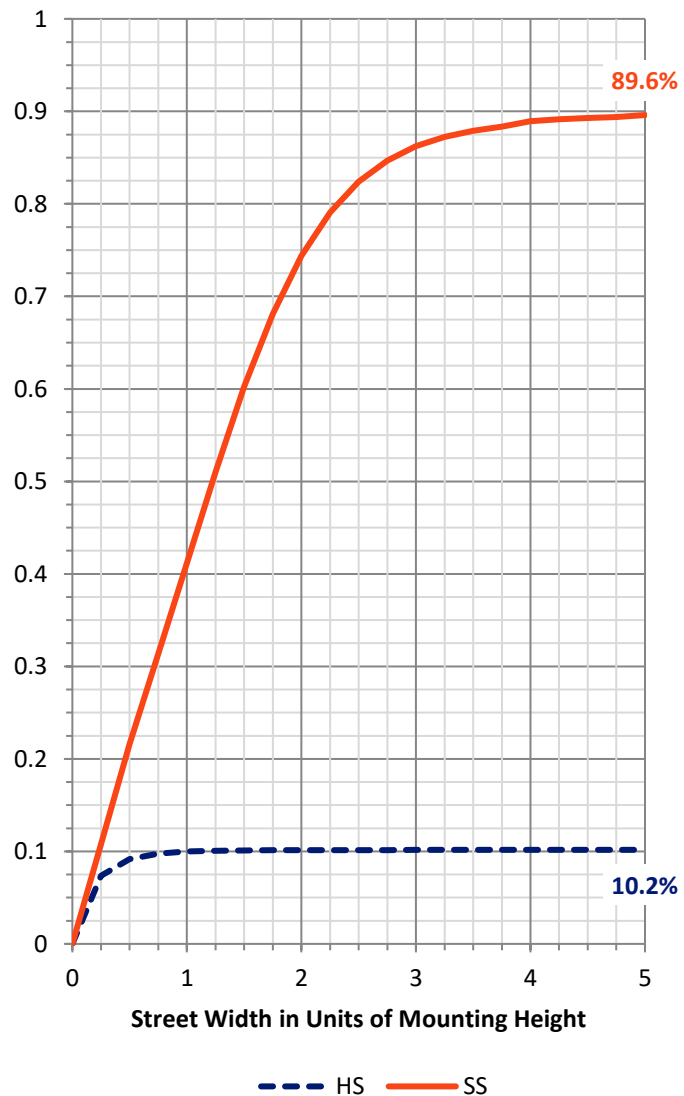
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.7	0.0	2886.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25241.3	0.0	25241.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	28128.0	0.0	28128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.0
10°-20°	851.0	3.0
20°-30°	1338.4	4.8
30°-40°	1919.3	6.8
40°-50°	3317.2	11.8
50°-60°	6553.4	23.3
60°-70°	9159.0	32.6
70°-80°	4424.8	15.7
80°-90°	284.4	1.0
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°	28128.0	100.0
0°-180°	28128.0	100.0

Coefficient of Utilization



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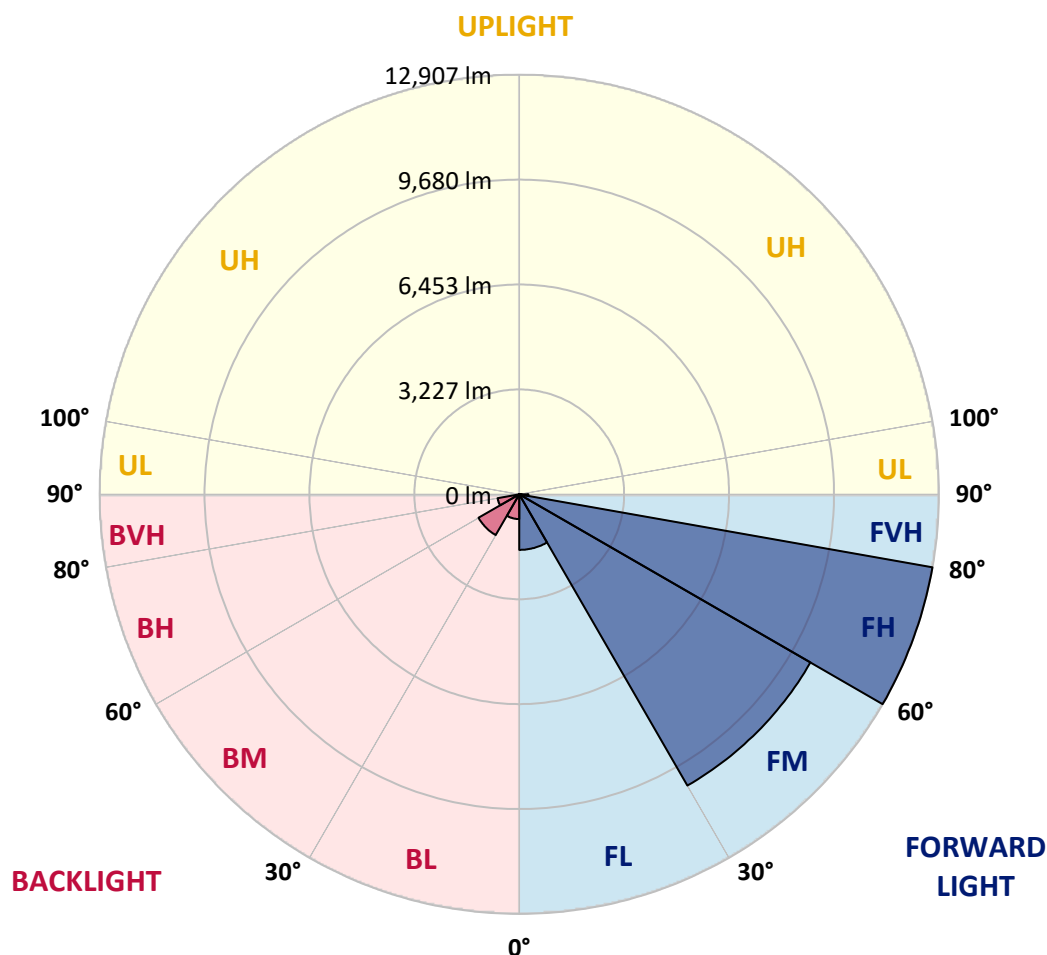
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1709.1	6.1			
FM	(30°-60°)	10343.3	36.8			
FH	(60°-80°)	12906.9	45.9			G5
FVH	(80°-90°)	282.0	1.0			G3/500
BL	(0°-30°)	760.8	2.7	B2/1000		
BM	(30°-60°)	1446.6	5.1	B2/2500		
BH	(60°-80°)	676.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3
2.5°	3130.9	3126.9	3108.5	3100.5	3055.7	3029.3	3018.8	2985.8	2938.3	2890.9	2838.1
5°	3487.0	3485.6	3451.4	3418.4	3334.0	3254.9	3240.3	3163.9	3057.0	2956.8	2856.6
7.5°	3851.0	3833.8	3799.5	3736.2	3613.6	3487.0	3475.1	3366.9	3215.3	3070.2	2926.5
10°	4159.6	4149.0	4104.2	4007.9	3864.1	3720.4	3705.9	3572.7	3401.2	3223.2	3039.9
12.5°	4399.6	4391.7	4332.3	4212.3	4059.3	3910.3	3890.5	3771.8	3588.5	3389.4	3173.1
15°	4546.0	4542.0	4469.5	4341.6	4191.2	4062.0	4044.8	3940.6	3770.5	3562.1	3318.2
17.5°	4580.3	4581.6	4506.4	4377.2	4253.2	4160.9	4147.7	4068.6	3926.1	3719.1	3463.2
20°	4503.8	4519.6	4452.3	4340.2	4263.7	4215.0	4204.4	4156.9	4036.9	3841.7	3579.3
22.5°	4395.6	4403.5	4357.4	4282.2	4250.6	4259.8	4254.5	4228.1	4126.6	3947.2	3694.0
25°	4329.7	4329.7	4302.0	4238.7	4259.8	4316.5	4317.8	4312.5	4232.1	4076.5	3833.8
27.5°	4327.1	4319.1	4287.5	4240.0	4298.0	4385.1	4390.4	4426.0	4375.8	4233.4	4007.9
30°	4432.6	4423.3	4356.1	4294.1	4367.9	4461.6	4474.8	4552.6	4527.5	4403.5	4201.8
32.5°	4679.2	4646.2	4497.2	4395.6	4451.0	4563.1	4580.3	4704.2	4743.8	4613.2	4389.0
35°	5016.8	4912.6	4697.6	4588.2	4593.5	4710.8	4726.7	4908.7	5026.0	4805.8	4534.1
37.5°	5482.3	5430.9	5081.4	4788.6	4812.4	4990.4	5036.6	5234.4	5201.4	4911.3	4699.0
40°	6503.1	6422.7	6050.8	5350.5	5022.1	5217.3	5231.8	5337.3	5339.9	5150.0	5041.9
42.5°	7893.1	7860.2	7468.5	6369.9	5434.9	5368.9	5395.3	5573.3	5772.5	5653.8	5648.5
45°	9432.2	9415.1	8999.6	7723.0	6269.7	5866.1	5899.1	6137.8	6518.9	6545.3	6712.8
47.5°	10670.6	10662.7	10424.0	9233.1	7547.6	6708.8	6719.4	6972.6	7642.6	7973.6	8241.3
50°	11799.5	11837.7	11649.1	10867.1	9288.5	8029.0	8003.9	8172.7	9248.9	9790.9	10123.3
52.5°	13368.9	13423.0	12894.1	12391.6	11115.0	9667.0	9647.2	9823.9	11179.6	11585.8	11645.2
55°	14755.0	14662.7	14244.6	14099.5	13342.5	11690.0	11684.8	11840.4	13047.1	13219.9	13329.3
57.5°	15366.9	15331.3	15533.1	15865.4	15675.5	14081.1	14069.2	13950.5	14718.0	14736.5	15072.8
60°	15753.3	15796.8	16415.4	17440.1	17913.5	16654.1	16577.6	15853.5	16313.8	16272.9	16633.0
62.5°	15463.2	15548.9	16662.0	18369.9	19588.4	18900.0	18791.9	17597.0	17677.5	17536.4	17871.3
65°	13922.8	14056.0	15879.9	18194.5	20419.3	20655.4	20545.9	19136.1	18760.2	18528.1	18342.2
67.5°	11304.9	11384.1	13288.4	16668.6	20044.8	21702.5	21680.1	20485.2	19577.9	18360.6	16917.8
69°	9342.5	9420.3	11253.5	15062.3	19220.5	21926.7	21970.2	20917.8	19422.3	17342.5	14989.7
70°	7912.9	7996.0	9703.9	13685.4	18264.4	21822.5	21900.3	20876.9	18976.5	16163.5	13297.7
72.5°	4150.3	4221.5	5974.3	9428.3	14889.5	20038.2	20274.2	19112.4	16085.7	11738.8	7862.8
75°	1304.3	1345.2	2333.0	4928.4	10194.5	15580.6	15634.6	14992.4	11422.3	6456.9	3274.6
77.5°	497.2	485.3	776.8	1816.0	5154.0	9810.7	10141.7	9368.9	5994.0	2282.9	755.7
80°	267.7	269.0	403.6	751.7	2205.1	5041.9	5321.4	4540.7	2129.9	712.2	174.1
82.5°	116.1	121.3	226.8	398.3	1012.9	1859.5	1999.3	1664.4	813.7	478.7	64.6
85°	25.1	27.7	109.5	216.3	412.8	522.3	547.3	539.4	518.3	371.9	25.1
87.5°	0.0	0.0	48.8	77.8	104.2	118.7	104.2	135.8	286.2	250.6	13.2
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°	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3	2818.3
2.5°	2821.0	2797.2	2756.3	2711.5	2679.8	2646.9	2620.5	2608.6	2595.4	2586.2	2598.1
5°	2815.7	2769.5	2690.4	2613.9	2558.5	2513.7	2476.7	2462.2	2447.7	2437.2	2435.9
7.5°	2861.8	2797.2	2675.9	2563.8	2478.1	2417.4	2367.3	2346.2	2329.0	2321.1	2314.5
10°	2950.2	2867.1	2704.9	2558.5	2447.7	2344.9	2236.7	2153.6	2099.6	2074.5	2065.3
12.5°	3064.9	2960.8	2760.3	2586.2	2425.3	2227.5	1998.0	1800.2	1672.3	1630.1	1605.0
15°	3199.5	3070.2	2832.8	2621.8	2343.5	1982.2	1593.1	1334.6	1216.0	1192.2	1165.8
17.5°	3328.7	3186.3	2919.9	2628.4	2164.2	1583.9	1167.2	991.8	945.6	961.4	965.4
20°	3442.1	3301.0	3005.6	2570.4	1838.4	1188.3	903.4	859.9	877.0	907.3	912.6
22.5°	3556.9	3411.8	3084.7	2417.4	1421.7	902.1	813.7	824.3	841.4	871.7	877.0
25°	3696.7	3546.3	3158.6	2136.5	1066.9	767.6	772.8	788.7	805.8	833.5	836.1
27.5°	3857.6	3716.4	3207.4	1771.2	791.3	705.6	722.7	746.5	763.6	790.0	795.2
30°	4071.2	3940.6	3223.2	1392.7	663.4	650.2	658.1	687.1	712.2	735.9	739.9
32.5°	4271.7	4162.2	3170.4	1051.1	614.6	598.7	598.7	615.9	644.9	667.3	672.6
35°	4456.3	4385.1	3001.6	768.9	577.6	551.3	538.1	538.1	556.5	575.0	580.3
37.5°	4700.3	4697.6	2728.6	613.3	542.0	511.7	484.0	462.9	456.3	460.3	462.9
40°	5118.3	5122.3	2372.6	549.9	511.7	470.8	428.6	390.4	354.8	342.9	341.6
42.5°	5771.2	5711.8	1999.3	519.6	485.3	428.6	365.3	313.9	258.5	241.3	240.0
45°	6807.8	6455.6	1603.7	491.9	457.6	381.1	302.0	232.1	187.3	174.1	174.1
47.5°	8317.8	7432.9	1242.3	461.6	420.7	327.1	228.2	167.5	137.2	130.6	131.9
50°	9879.3	8390.3	952.2	423.3	375.9	270.4	168.8	121.3	104.2	104.2	105.5
52.5°	11264.1	9092.0	742.5	382.5	320.5	212.3	127.9	95.0	87.0	85.7	87.0
55°	12560.5	9544.3	568.4	335.0	254.5	158.3	97.6	77.8	72.5	69.9	68.6
57.5°	13810.7	9768.5	426.0	270.4	184.6	114.7	77.8	65.9	60.7	56.7	55.4
60°	14642.9	9586.5	292.8	199.1	127.9	83.1	64.6	56.7	50.1	46.2	44.8
62.5°	15112.4	9089.3	188.6	143.8	91.0	62.0	51.4	47.5	38.2	34.3	34.3
65°	14922.5	8269.0	131.9	102.9	65.9	46.2	38.2	38.2	27.7	22.4	21.1
67.5°	13223.8	6985.8	100.2	76.5	47.5	34.3	29.0	33.0	17.1	10.6	10.6
69°	11377.5	5789.6	85.7	63.3	39.6	27.7	25.1	30.3	11.9	7.9	6.6
70°	9888.5	4994.4	77.8	55.4	33.0	23.7	22.4	29.0	11.9	6.6	5.3
72.5°	5916.2	2785.3	59.3	39.6	21.1	18.5	18.5	33.0	11.9	6.6	5.3
75°	2391.0	981.2	43.5	27.7	15.8	15.8	22.4	42.2	10.6	5.3	4.0
77.5°	542.0	215.0	25.1	17.1	10.6	15.8	26.4	33.0	6.6	2.6	0.0
80°	131.9	52.8	15.8	10.6	6.6	11.9	19.8	18.5	1.3	0.0	0.0
82.5°	43.5	18.5	6.6	5.3	1.3	4.0	9.2	5.3	0.0	0.0	0.0
85°	18.5	10.6	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.9	4.0	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)