

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: P322482

Luminaire Tested: **GAN-SA8B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27199 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

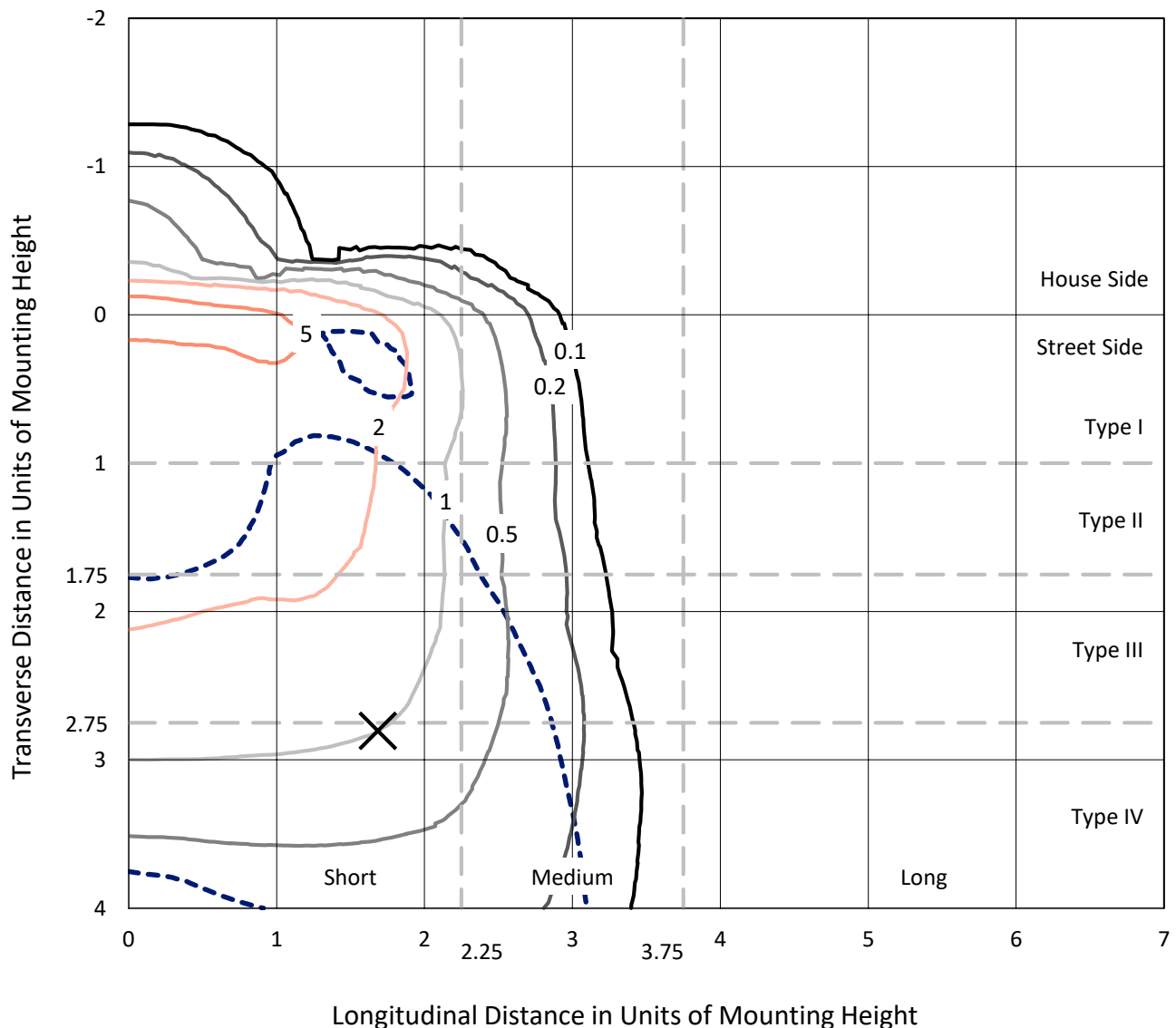
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

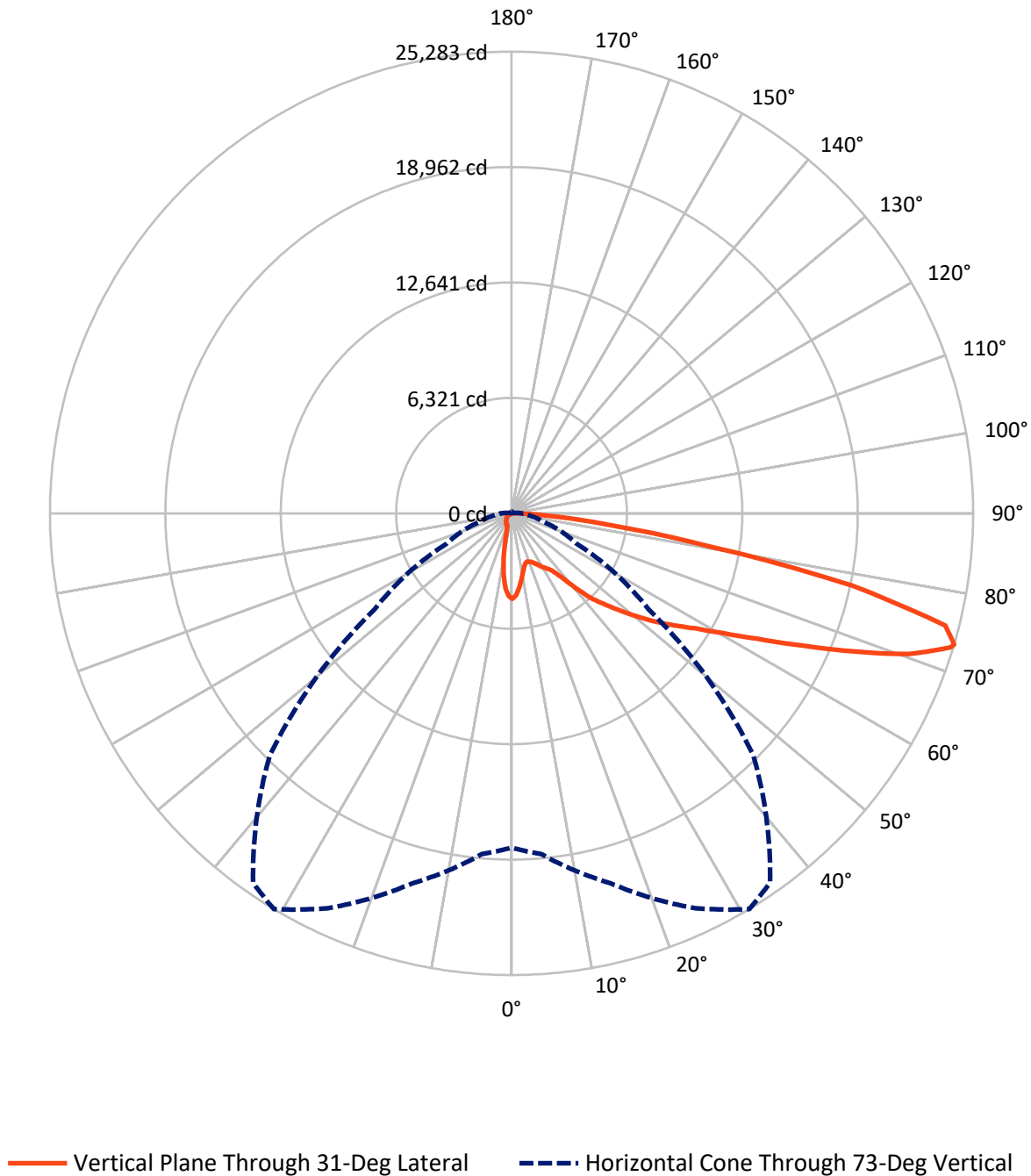
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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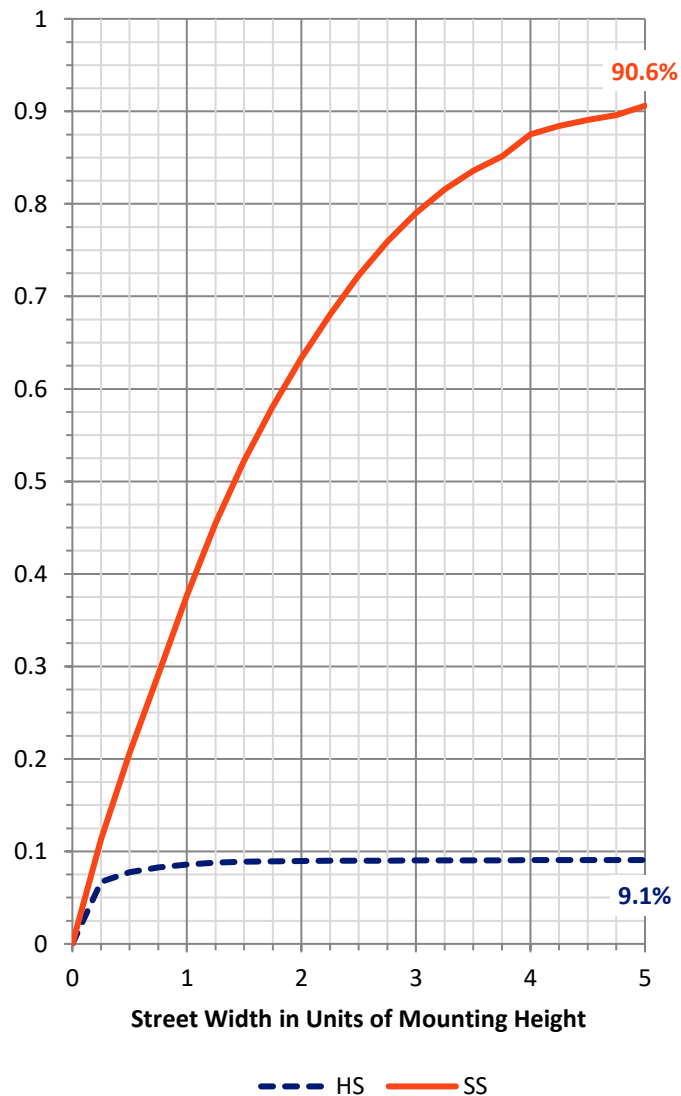
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2479.3	0.0	2479.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24719.7	0.0	24719.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	27199.0	0.0	27199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	1.4
10°-20°	842.5	3.1
20°-30°	1262.3	4.6
30°-40°	2008.3	7.4
40°-50°	3586.2	13.2
50°-60°	5564.8	20.5
60°-70°	7397.7	27.2
70°-80°	5564.5	20.5
80°-90°	584.7	2.1
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°	27199.0	100.0
0°-180°	27199.0	100.0

Coefficient of Utilization



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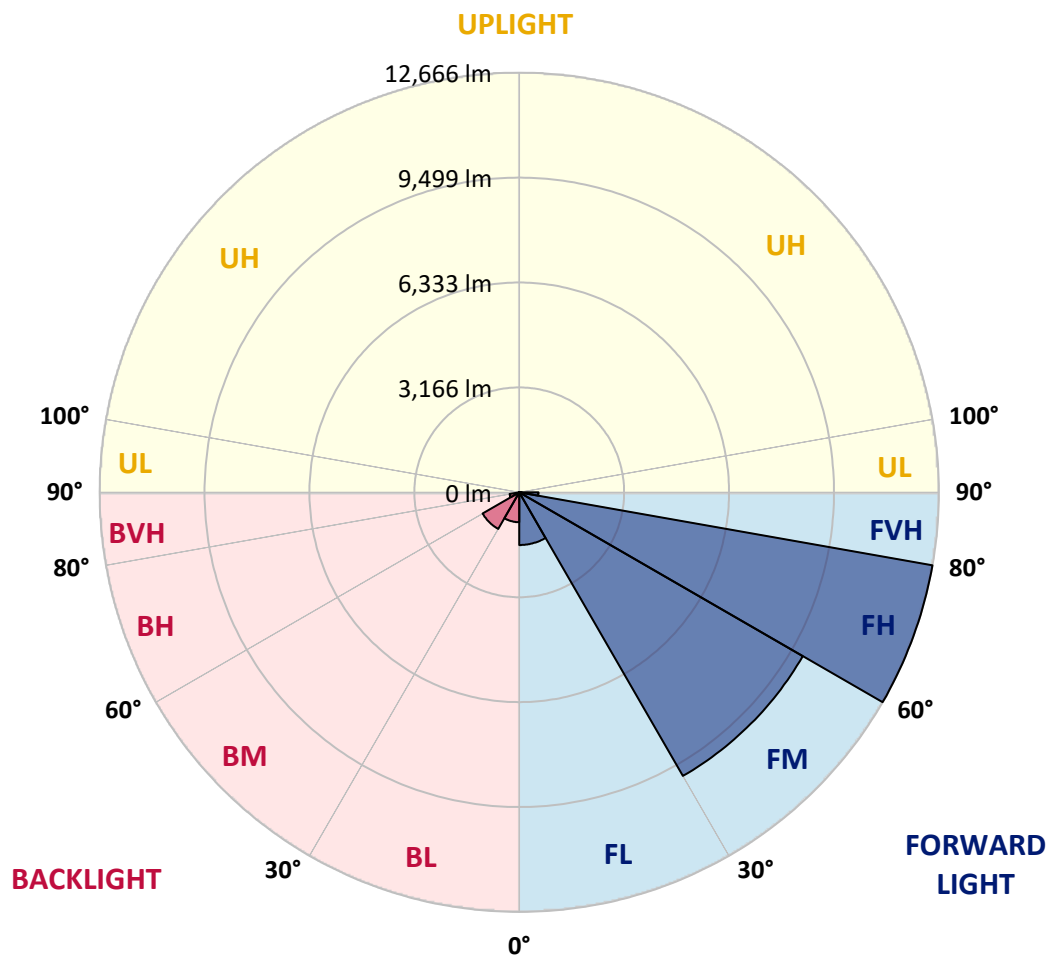
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1591.2	5.9			
FM	(30°-60°)	9883.2	36.3			
FH	(60°-80°)	12665.6	46.6			G5
FVH	(80°-90°)	579.8	2.1			G4/750
BL	(0°-30°)	901.6	3.3	B2/1000		
BM	(30°-60°)	1276.2	4.7	B2/2500		
BH	(60°-80°)	296.6	1.1	B1/500		G1/500
BVH	(80°-90°)	4.9	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6
2.5°	4434.7	4453.4	4473.3	4477.3	4510.6	4511.9	4559.9	4595.8	4631.7	4666.3	4678.3
5°	3979.6	4010.2	4046.1	4082.0	4152.6	4180.5	4297.7	4417.4	4531.9	4641.0	4694.3
7.5°	3493.8	3528.4	3578.9	3668.1	3746.6	3801.2	3986.2	4199.2	4412.1	4613.1	4728.9
10°	3050.6	3082.5	3135.7	3230.2	3351.3	3425.9	3674.8	3970.2	4283.0	4587.8	4780.8
12.5°	2768.4	2785.7	2815.0	2916.1	3025.3	3109.1	3401.9	3767.9	4176.5	4586.5	4864.6
15°	2716.5	2721.8	2697.8	2743.1	2828.3	2909.5	3206.3	3604.2	4095.4	4607.8	4973.8
17.5°	2799.0	2796.3	2716.5	2711.2	2779.0	2845.6	3110.4	3491.1	4038.1	4657.0	5114.9
20°	2924.1	2914.8	2776.4	2751.1	2823.0	2885.5	3103.8	3448.5	4016.8	4739.5	5286.6
22.5°	3090.5	3074.5	2857.6	2830.9	2908.1	2973.4	3186.3	3489.8	4035.5	4850.0	5486.2
25°	3296.8	3272.8	2997.3	2968.0	3046.6	3111.8	3334.0	3608.2	4091.4	4984.4	5739.1
27.5°	3529.7	3495.1	3220.9	3145.1	3234.2	3302.1	3531.0	3789.2	4179.2	5126.8	6049.2
30°	3749.3	3704.1	3456.5	3331.4	3440.5	3516.4	3744.0	4004.8	4320.3	5346.5	6473.8
32.5°	3970.2	3919.7	3666.8	3517.7	3616.2	3698.7	3963.6	4301.7	4585.1	5681.9	7038.1
35°	4478.7	4425.4	4115.3	3869.1	3867.8	3914.3	4271.0	4707.6	4935.2	6149.0	7711.6
37.5°	5334.5	5303.9	5008.4	4541.2	4416.1	4364.2	4690.3	5192.1	5438.3	6791.9	8471.5
40°	6271.5	6244.8	5913.4	5490.2	5299.9	5172.1	5291.9	5866.9	6149.0	7577.1	9247.5
42.5°	7329.6	7203.1	6612.2	6485.8	6315.4	6218.2	6110.4	6698.7	7022.1	8431.6	10016.8
45°	8290.5	8077.6	7310.9	7119.3	7080.7	7104.6	7164.5	7816.7	8004.4	9447.1	10783.4
47.5°	8862.8	8695.1	8106.9	7923.2	7912.5	8070.9	8523.4	9079.8	8982.6	10332.2	11458.2
50°	9407.2	9255.5	8767.0	8812.3	8861.5	9077.1	10066.0	10378.8	9875.7	11134.8	12077.1
52.5°	9847.7	9616.2	9360.6	9614.8	9857.1	10204.4	11657.8	11544.7	10509.2	11773.6	12606.8
55°	10102.0	9996.8	10120.6	10376.1	10831.3	11395.7	13160.5	12515.0	10972.4	12356.6	12959.5
57.5°	11033.6	10827.3	11073.6	11294.5	11888.1	12677.4	14447.5	13237.7	11306.5	12717.3	13040.7
60°	12161.0	11994.6	12139.7	12507.0	13308.2	14235.9	15650.7	13827.3	11480.8	12948.9	12830.4
62.5°	13955.1	13735.5	13645.0	14056.2	15118.3	16131.2	16563.8	14235.9	11442.2	12846.4	12109.0
65°	16358.8	16131.2	15726.6	16099.3	17450.2	18164.9	17584.6	14322.4	11176.0	12017.2	10285.6
67.5°	18821.1	18656.0	18310.0	18938.2	20157.3	20387.6	18664.0	14112.1	10318.9	9743.9	7267.0
70°	20447.5	20376.9	20601.9	21991.4	23078.8	23012.2	19654.2	12982.2	8043.0	5992.0	3594.9
72.5°	19274.9	19613.0	21274.0	23793.5	25121.8	24578.8	19145.8	9968.9	4597.1	2305.2	1039.5
73°	18303.3	18735.9	20971.9	23861.4	25282.9	24687.9	18718.6	9150.3	3918.3	1819.4	787.9
75°	12733.3	13264.3	17362.3	22223.0	24529.5	23522.0	15602.8	5600.7	1815.4	806.6	318.1
77.5°	6182.3	6574.9	9560.3	16056.7	19076.6	18377.8	9713.3	2086.9	819.9	504.4	146.4
80°	2307.9	2566.1	4149.9	8172.1	11024.3	11313.1	4272.4	789.3	545.7	405.9	74.5
82.5°	604.3	673.5	1530.6	3644.2	5649.9	5913.4	1346.9	398.0	399.3	334.1	45.3
85°	193.0	220.9	477.8	1635.7	2661.9	2337.2	351.4	193.0	290.1	248.9	25.3
87.5°	24.0	30.6	151.7	384.6	587.0	326.1	54.6	57.2	123.8	138.4	14.6
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°	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6	4679.6
2.5°	4690.3	4683.6	4685.0	4650.4	4627.7	4582.5	4535.9	4514.6	4492.0	4482.7	4492.0
5°	4714.2	4702.3	4667.7	4561.2	4448.1	4301.7	4164.6	4060.7	3930.3	3894.4	3931.6
7.5°	4751.5	4727.6	4626.4	4409.5	4157.9	3878.4	3564.3	3335.4	3147.7	3026.6	3070.5
10°	4806.1	4760.8	4557.2	4188.5	3738.7	3243.5	2797.7	2450.3	2204.1	2102.9	2098.9
12.5°	4897.9	4812.7	4472.0	3901.0	3226.2	2566.1	1981.8	1605.1	1405.5	1276.4	1273.7
15°	4999.1	4874.0	4364.2	3556.3	2630.0	1838.1	1276.4	990.2	861.1	819.9	814.5
17.5°	5122.9	4944.5	4224.5	3131.7	2005.8	1217.8	833.2	750.7	745.3	741.3	741.3
20°	5278.6	5028.4	4044.8	2645.9	1422.8	813.2	708.1	713.4	716.1	710.7	712.1
22.5°	5459.6	5113.5	3830.5	2124.2	962.3	680.1	677.5	684.1	686.8	684.1	685.4
25°	5669.9	5212.0	3569.6	1577.2	694.8	645.5	652.2	661.5	668.1	668.1	668.1
27.5°	5930.7	5331.8	3255.5	1100.7	600.3	609.6	628.2	645.5	654.8	657.5	657.5
30°	6270.1	5480.9	2878.9	754.7	545.7	561.7	596.3	629.5	646.8	649.5	650.8
32.5°	6698.7	5648.6	2442.3	557.7	499.1	511.1	548.4	604.3	637.5	642.9	642.9
35°	7189.8	5842.9	1972.5	485.8	465.8	469.8	499.1	563.0	621.6	636.2	637.5
37.5°	7727.5	6034.6	1500.0	453.9	437.9	437.9	459.2	513.7	583.0	628.2	633.5
40°	8229.3	6150.4	1051.5	428.6	412.6	412.6	431.2	471.2	536.4	604.3	618.9
42.5°	8692.5	6190.3	732.0	404.6	388.6	392.6	408.6	440.5	489.8	557.7	571.0
45°	9169.0	6183.6	533.7	376.7	364.7	376.7	388.6	412.6	448.5	487.1	489.8
47.5°	9528.3	6127.7	423.2	350.0	342.1	358.0	368.7	384.6	404.6	401.9	401.9
50°	9865.1	5992.0	340.7	314.1	319.4	338.1	343.4	348.7	350.0	324.8	322.1
52.5°	10120.6	5780.3	272.8	275.5	296.8	315.4	310.1	302.1	288.8	258.2	252.9
55°	10205.8	5373.1	214.3	227.6	263.5	287.5	267.5	250.2	224.9	199.6	194.3
57.5°	10051.4	4847.3	174.4	177.0	222.3	242.2	219.6	199.6	171.7	150.4	146.4
60°	9724.0	4263.1	143.7	133.1	171.7	189.0	174.4	154.4	129.1	113.1	111.8
62.5°	9074.5	3640.2	118.5	103.8	130.4	145.1	135.8	121.1	99.8	89.2	87.8
65°	7708.9	2912.1	95.8	83.9	101.2	113.1	105.1	94.5	78.5	70.5	69.2
67.5°	5381.1	1968.5	78.5	69.2	79.9	89.2	82.5	77.2	62.6	61.2	62.6
70°	2595.4	949.0	65.2	55.9	62.6	69.2	66.5	62.6	59.9	69.2	79.9
72.5°	744.0	318.1	51.9	46.6	50.6	54.6	57.2	55.9	65.2	83.9	97.2
73°	572.3	256.9	49.2	43.9	47.9	53.2	55.9	54.6	66.5	85.2	97.2
75°	244.9	123.8	37.3	35.9	39.9	46.6	49.2	49.2	66.5	86.5	93.2
77.5°	110.5	66.5	24.0	28.0	34.6	37.3	41.3	41.3	53.2	66.5	66.5
80°	62.6	35.9	18.6	21.3	25.3	25.3	25.3	22.6	24.0	26.6	29.3
82.5°	39.9	24.0	14.6	17.3	16.0	13.3	10.6	10.6	9.3	10.6	13.3
85°	22.6	13.3	13.3	10.6	6.7	5.3	6.7	5.3	1.3	0.0	1.3
87.5°	13.3	8.0	4.0	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)