

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: P322794

Luminaire Tested: **GAN-SA0A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322794
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-SA0A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 27959 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

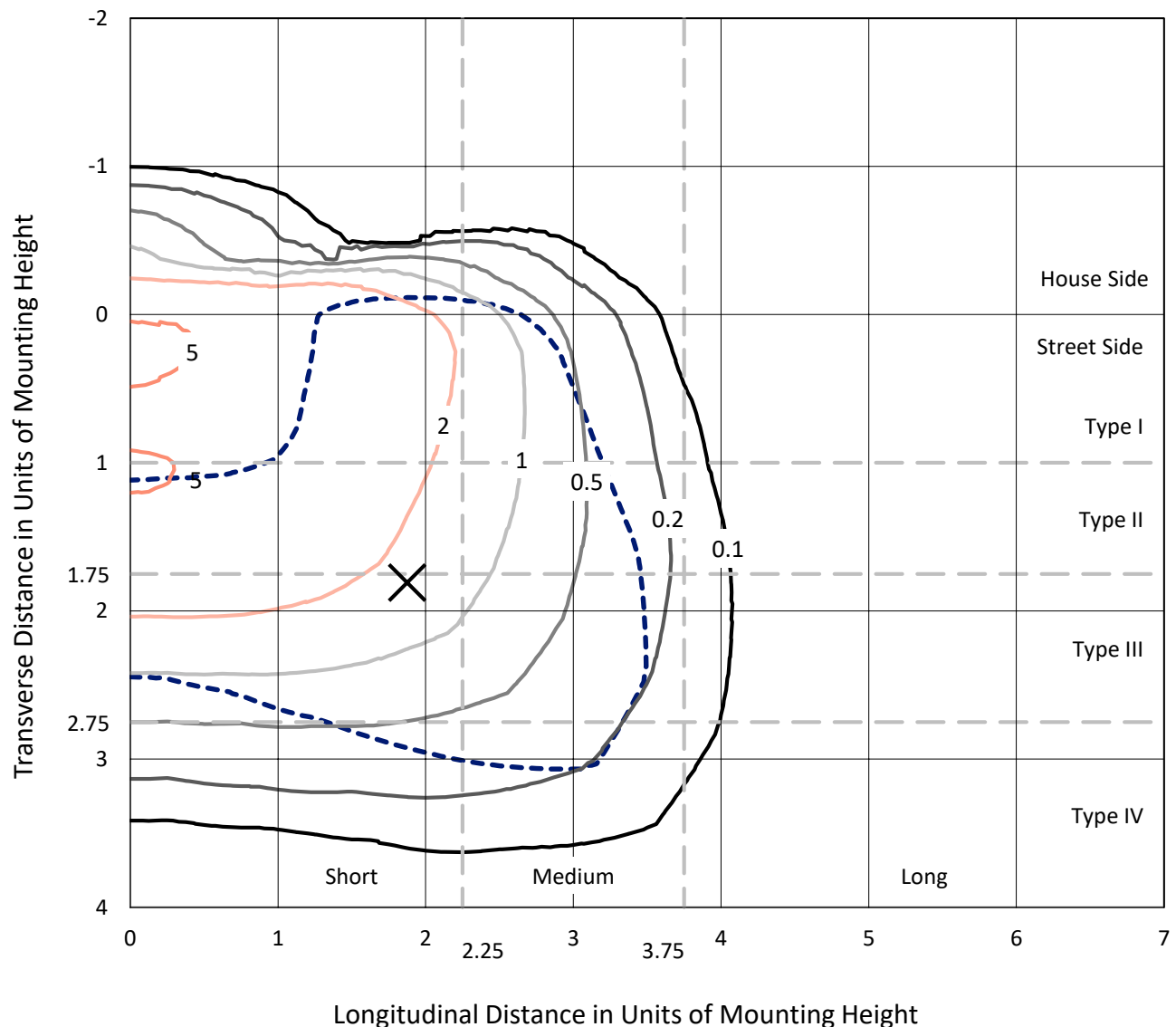
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

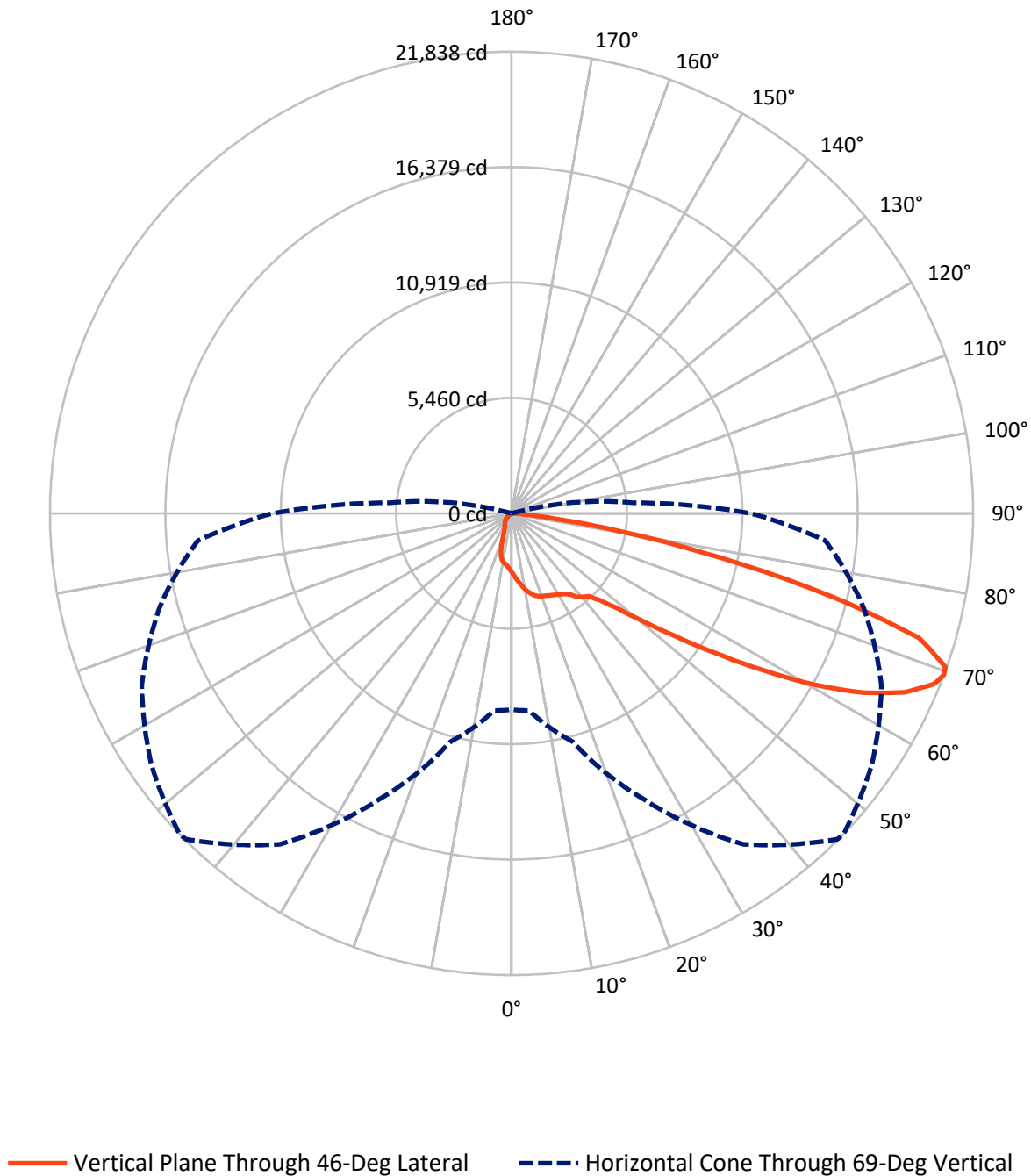
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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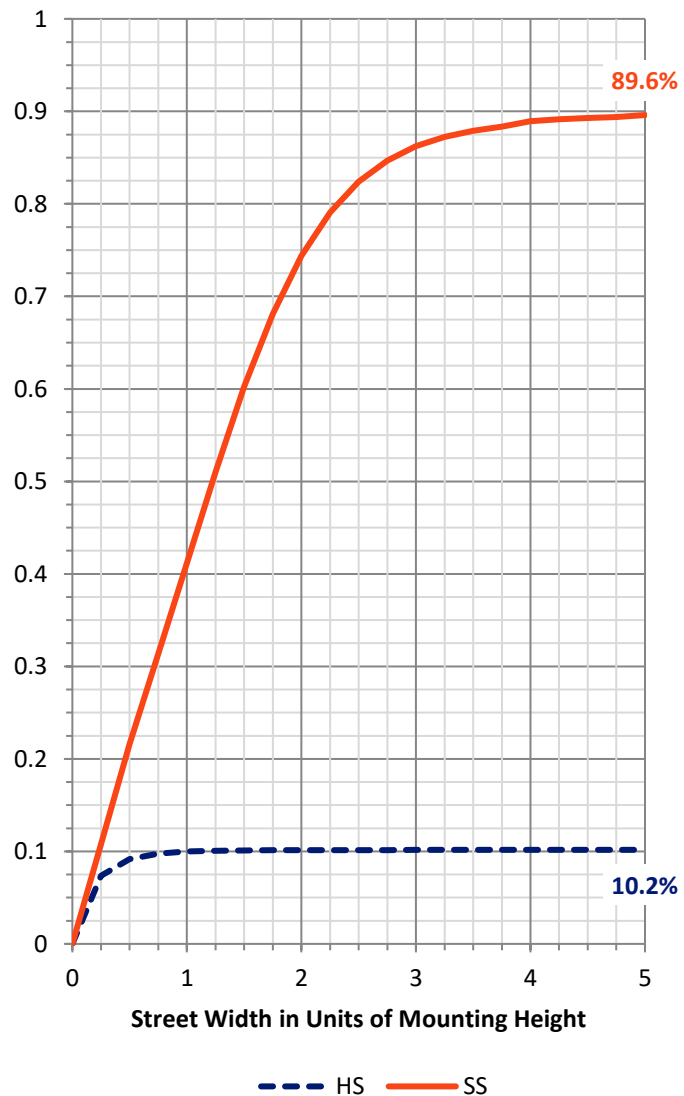
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2869.3	0.0	2869.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25089.7	0.0	25089.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	27959.0	0.0	27959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.0
10°-20°	845.9	3.0
20°-30°	1330.3	4.8
30°-40°	1907.7	6.8
40°-50°	3297.3	11.8
50°-60°	6514.0	23.3
60°-70°	9104.0	32.6
70°-80°	4398.2	15.7
80°-90°	282.7	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°	27959.0	100.0
0°-180°	27959.0	100.0

Coefficient of Utilization



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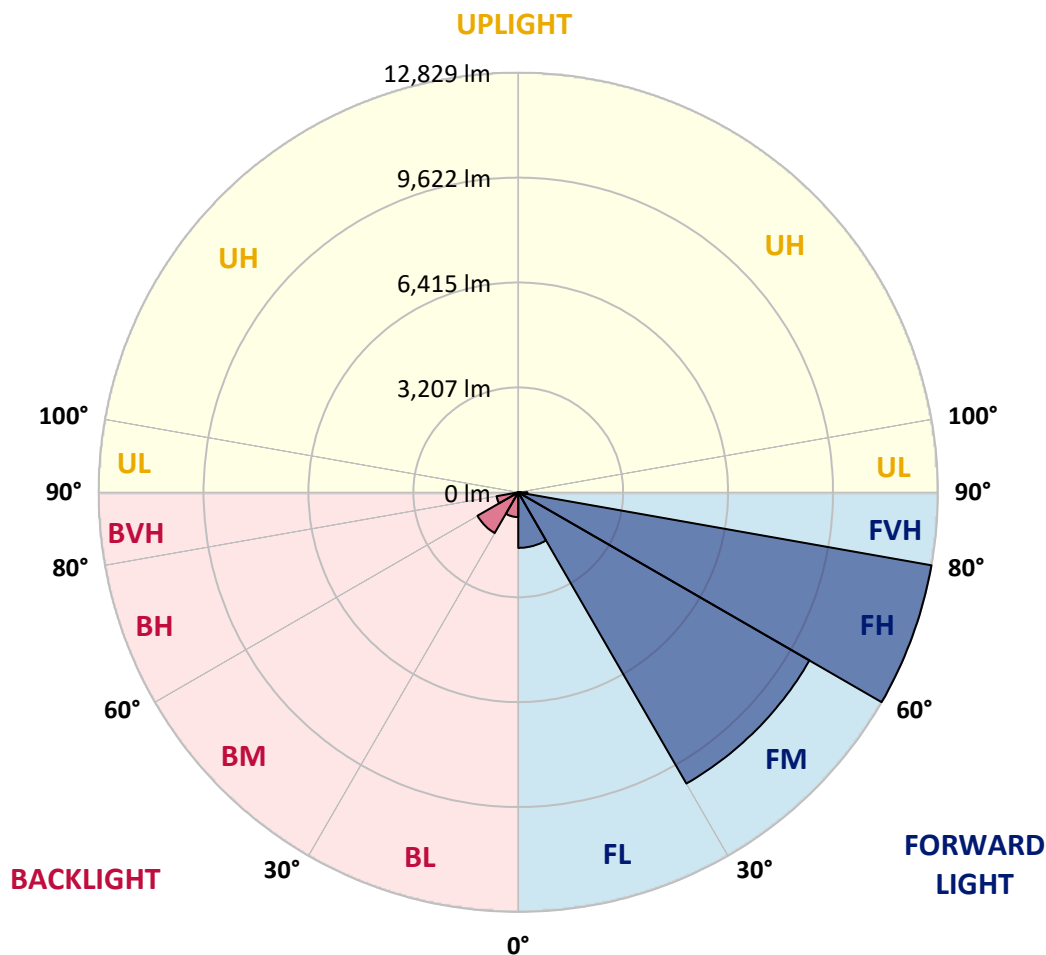
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.8	6.1			
FM	(30°-60°)	10281.1	36.8			
FH	(60°-80°)	12829.4	45.9			G5
FVH	(80°-90°)	280.3	1.0			G3/500
BL	(0°-30°)	756.3	2.7	B2/1000		
BM	(30°-60°)	1437.9	5.1	B2/2500		
BH	(60°-80°)	672.8	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°	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4
2.5°	3112.1	3108.1	3089.8	3081.9	3037.3	3011.1	3000.6	2967.9	2920.7	2873.5	2821.1
5°	3466.0	3464.7	3430.6	3397.8	3313.9	3235.3	3220.9	3144.8	3038.7	2939.0	2839.4
7.5°	3827.8	3810.8	3776.7	3713.8	3591.9	3466.0	3454.2	3346.7	3196.0	3051.8	2908.9
10°	4134.6	4124.1	4079.5	3983.8	3840.9	3698.0	3683.6	3551.2	3380.8	3203.8	3021.6
12.5°	4373.2	4365.3	4306.3	4187.0	4034.9	3886.8	3867.1	3749.2	3567.0	3369.0	3154.0
15°	4518.7	4514.7	4442.6	4315.5	4166.0	4037.6	4020.5	3917.0	3747.9	3540.7	3298.2
17.5°	4552.7	4554.1	4479.3	4350.9	4227.6	4135.9	4122.8	4044.1	3902.5	3696.7	3442.4
20°	4476.7	4492.4	4425.6	4314.2	4238.1	4189.6	4179.1	4131.9	4012.7	3818.6	3557.8
22.5°	4369.2	4377.1	4331.2	4256.5	4225.0	4234.2	4229.0	4202.7	4101.8	3923.5	3671.8
25°	4303.7	4303.7	4276.1	4213.2	4234.2	4290.6	4291.9	4286.6	4206.7	4052.0	3810.8
27.5°	4301.1	4293.2	4261.7	4214.5	4272.2	4358.7	4364.0	4399.4	4349.6	4208.0	3983.8
30°	4405.9	4396.7	4329.9	4268.3	4341.7	4434.8	4447.9	4525.2	4500.3	4377.1	4176.5
32.5°	4651.1	4618.3	4470.2	4369.2	4424.3	4535.7	4552.7	4676.0	4715.3	4585.5	4362.7
35°	4986.7	4883.1	4669.4	4560.6	4565.9	4682.5	4698.3	4879.2	4995.8	4776.9	4506.9
37.5°	5449.4	5398.3	5050.9	4759.9	4783.5	4960.4	5006.3	5203.0	5170.2	4881.8	4670.7
40°	6464.0	6384.1	6014.4	5318.3	4991.9	5185.9	5200.3	5305.2	5307.8	5119.1	5011.6
42.5°	7845.7	7812.9	7423.6	6331.6	5402.2	5336.7	5362.9	5539.9	5737.8	5619.8	5614.6
45°	9375.5	9358.5	8945.6	7676.6	6232.0	5830.9	5863.6	6100.9	6479.8	6506.0	6672.5
47.5°	10606.5	10598.6	10361.3	9177.6	7502.3	6668.5	6679.0	6930.7	7596.6	7925.7	8191.8
50°	11728.6	11766.6	11579.2	10801.8	9232.6	7980.7	7955.8	8123.6	9193.3	9732.1	10062.4
52.5°	13288.6	13342.3	12816.6	12317.2	11048.2	9608.9	9589.2	9764.9	11112.5	11516.2	11575.2
55°	14666.3	14574.6	14159.0	14014.8	13262.3	11619.8	11614.5	11769.2	12968.7	13140.4	13249.2
57.5°	15274.6	15239.2	15439.7	15770.1	15581.3	13996.4	13984.7	13866.7	14629.6	14648.0	14982.2
60°	15658.7	15701.9	16316.7	17335.3	17805.9	16554.0	16478.0	15758.3	16215.8	16175.2	16533.0
62.5°	15370.3	15455.5	16561.9	18259.5	19470.8	18786.5	18679.0	17491.3	17571.3	17431.0	17764.0
65°	13839.1	13971.5	15784.5	18085.1	20296.6	20531.3	20422.5	19021.1	18647.5	18416.8	18232.0
67.5°	11237.0	11315.7	13208.6	16568.4	19924.3	21572.1	21549.8	20362.2	19460.3	18250.3	16816.2
69°	9286.4	9363.7	11185.9	14971.8	19105.0	21795.0	21838.2	20792.1	19305.6	17238.3	14899.7
70°	7865.4	7948.0	9645.6	13603.2	18154.6	21691.4	21768.8	20751.5	18862.5	16066.4	13217.8
72.5°	4125.4	4196.2	5938.4	9371.6	14800.0	19917.8	20152.4	18997.5	15989.0	11668.3	7815.6
75°	1296.5	1337.1	2319.0	4898.8	10133.2	15486.9	15540.7	14902.3	11353.7	6418.2	3255.0
77.5°	494.2	482.4	772.1	1805.1	5123.0	9751.8	10080.8	9312.6	5958.0	2269.2	751.1
80°	266.1	267.4	401.1	747.2	2191.8	5011.6	5289.5	4513.4	2117.1	707.9	173.0
82.5°	115.4	120.6	225.5	395.9	1006.8	1848.4	1987.3	1654.4	808.8	475.9	64.2
85°	24.9	27.5	108.8	215.0	410.3	519.1	544.0	536.2	515.2	369.7	24.9
87.5°	0.0	0.0	48.5	77.3	103.6	118.0	103.6	135.0	284.5	249.1	13.1
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°	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4	2801.4
2.5°	2804.0	2780.4	2739.8	2695.2	2663.7	2631.0	2604.8	2593.0	2579.8	2570.7	2582.5
5°	2798.8	2752.9	2674.2	2598.2	2543.1	2498.6	2461.9	2447.4	2433.0	2422.5	2421.2
7.5°	2844.6	2780.4	2659.8	2548.4	2463.2	2402.9	2353.1	2332.1	2315.0	2307.2	2300.6
10°	2932.5	2849.9	2688.7	2543.1	2433.0	2330.8	2223.3	2140.7	2086.9	2062.0	2052.9
12.5°	3046.5	2943.0	2743.7	2570.7	2410.7	2214.1	1986.0	1789.4	1662.2	1620.3	1595.4
15°	3180.2	3051.8	2815.8	2606.1	2329.5	1970.3	1583.6	1326.6	1208.6	1185.1	1158.8
17.5°	3308.7	3167.1	2902.3	2612.6	2151.2	1574.4	1160.1	985.8	939.9	955.6	959.6
20°	3421.4	3281.2	2987.5	2554.9	1827.4	1181.1	898.0	854.7	871.7	901.9	907.1
22.5°	3535.5	3391.3	3066.2	2402.9	1413.1	896.7	808.8	819.3	836.4	866.5	871.7
25°	3674.4	3525.0	3139.6	2123.7	1060.5	762.9	768.2	783.9	801.0	828.5	831.1
27.5°	3834.4	3694.1	3188.1	1760.5	786.5	701.3	718.4	742.0	759.0	785.2	790.5
30°	4046.7	3917.0	3203.8	1384.3	659.4	646.3	654.1	683.0	707.9	731.5	735.4
32.5°	4246.0	4137.2	3151.4	1044.8	610.9	595.1	595.1	612.2	641.0	663.3	668.6
35°	4429.5	4358.7	2983.6	764.3	574.2	548.0	534.8	534.8	553.2	571.6	576.8
37.5°	4672.0	4669.4	2712.2	609.6	538.8	508.6	481.1	460.1	453.6	457.5	460.1
40°	5087.6	5091.5	2358.3	546.6	508.6	468.0	426.0	388.0	352.6	340.8	339.5
42.5°	5736.5	5677.5	1987.3	516.5	482.4	426.0	363.1	312.0	256.9	239.9	238.6
45°	6766.9	6416.8	1594.1	489.0	454.9	378.8	300.2	230.7	186.1	173.0	173.0
47.5°	8267.8	7388.2	1234.9	458.8	418.2	325.1	226.8	166.5	136.3	129.8	131.1
50°	9819.9	8339.9	946.5	420.8	373.6	268.7	167.8	120.6	103.6	103.6	104.9
52.5°	11196.4	9037.3	738.0	380.2	318.5	211.1	127.2	94.4	86.5	85.2	86.5
55°	12485.0	9487.0	565.0	333.0	253.0	157.3	97.0	77.3	72.1	69.5	68.2
57.5°	13727.7	9709.8	423.4	268.7	183.5	114.0	77.3	65.5	60.3	56.4	55.1
60°	14554.9	9528.9	291.0	197.9	127.2	82.6	64.2	56.4	49.8	45.9	44.6
62.5°	15021.6	9034.7	187.5	142.9	90.5	61.6	51.1	47.2	38.0	34.1	34.1
65°	14832.8	8219.3	131.1	102.2	65.5	45.9	38.0	38.0	27.5	22.3	21.0
67.5°	13144.4	6943.8	99.6	76.0	47.2	34.1	28.8	32.8	17.0	10.5	10.5
69°	11309.1	5754.8	85.2	62.9	39.3	27.5	24.9	30.2	11.8	7.9	6.6
70°	9829.1	4964.4	77.3	55.1	32.8	23.6	22.3	28.8	11.8	6.6	5.2
72.5°	5880.7	2768.6	59.0	39.3	21.0	18.4	18.4	32.8	11.8	6.6	5.2
75°	2376.7	975.3	43.3	27.5	15.7	15.7	22.3	41.9	10.5	5.2	3.9
77.5°	538.8	213.7	24.9	17.0	10.5	15.7	26.2	32.8	6.6	2.6	0.0
80°	131.1	52.4	15.7	10.5	6.6	11.8	19.7	18.4	1.3	0.0	0.0
82.5°	43.3	18.4	6.6	5.2	1.3	3.9	9.2	5.2	0.0	0.0	0.0
85°	18.4	10.5	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.8	3.9	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)