

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: P319616

Luminaire Tested: **GAN-SA2D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13277 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

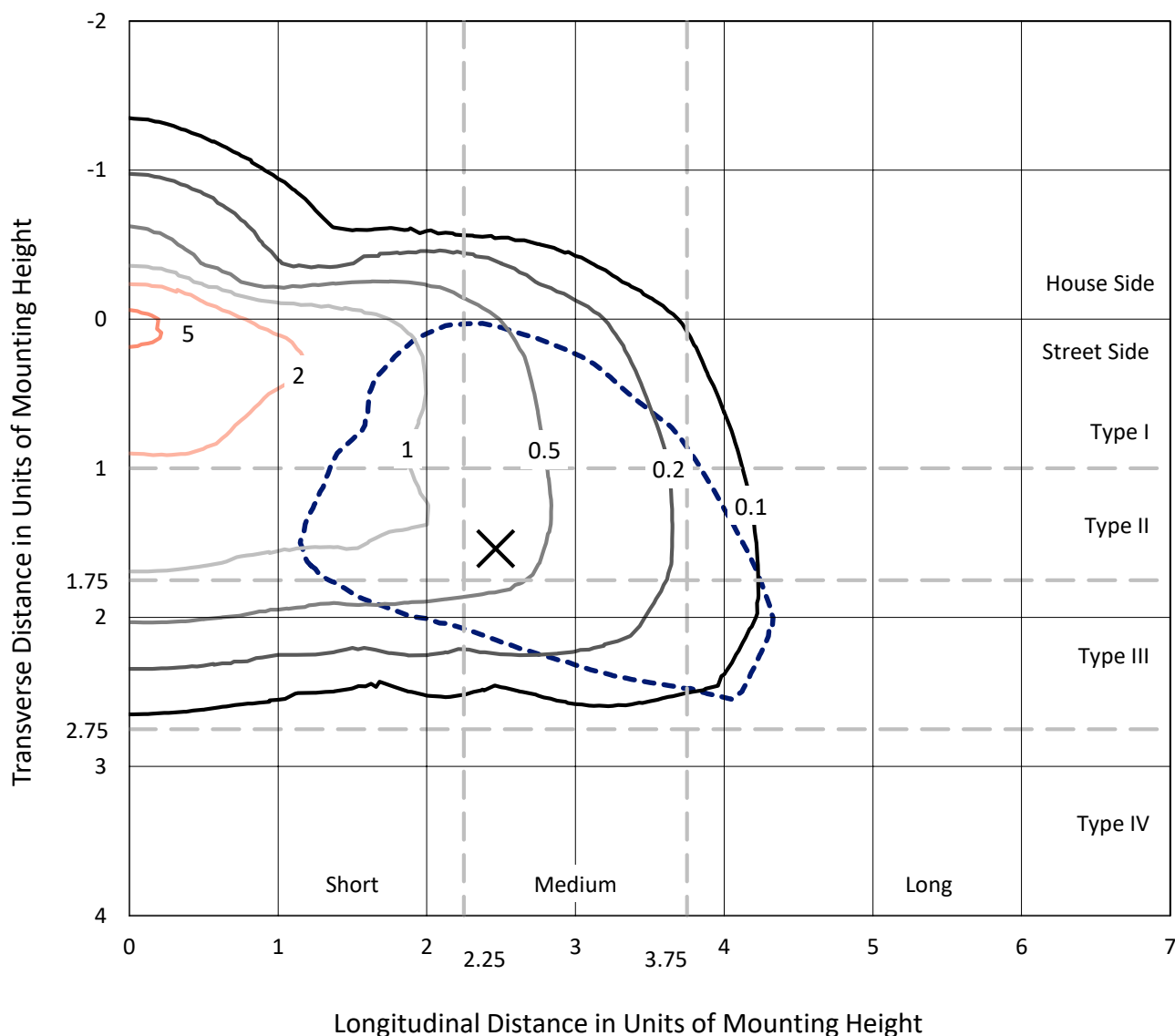
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

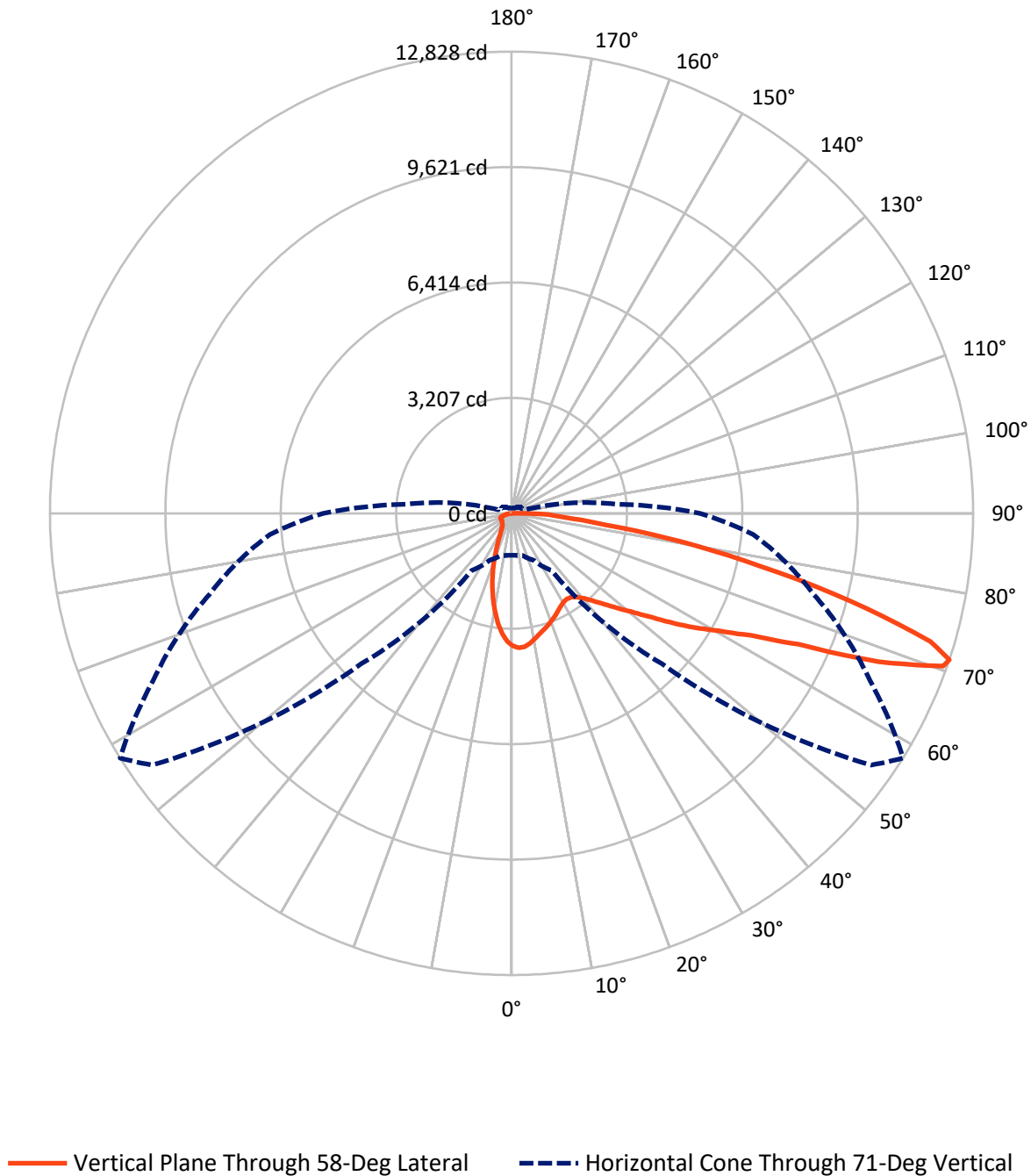
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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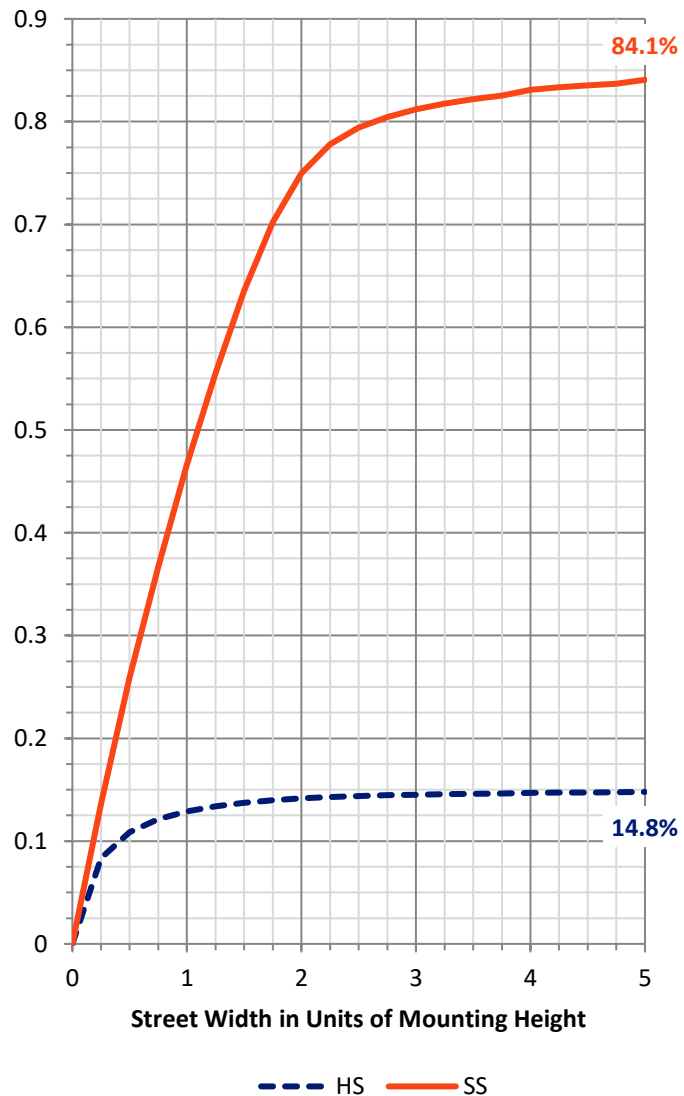
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1985.0	0.0	1985.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11292.0	0.0	11292.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	13277.0	0.0	13277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	2.4
10°-20°	705.7	5.3
20°-30°	896.8	6.8
30°-40°	1142.4	8.6
40°-50°	1620.0	12.2
50°-60°	2507.0	18.9
60°-70°	3412.9	25.7
70°-80°	2276.8	17.1
80°-90°	398.1	3.0
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°	13277.0	100.0
0°-180°	13277.0	100.0

Coefficient of Utilization



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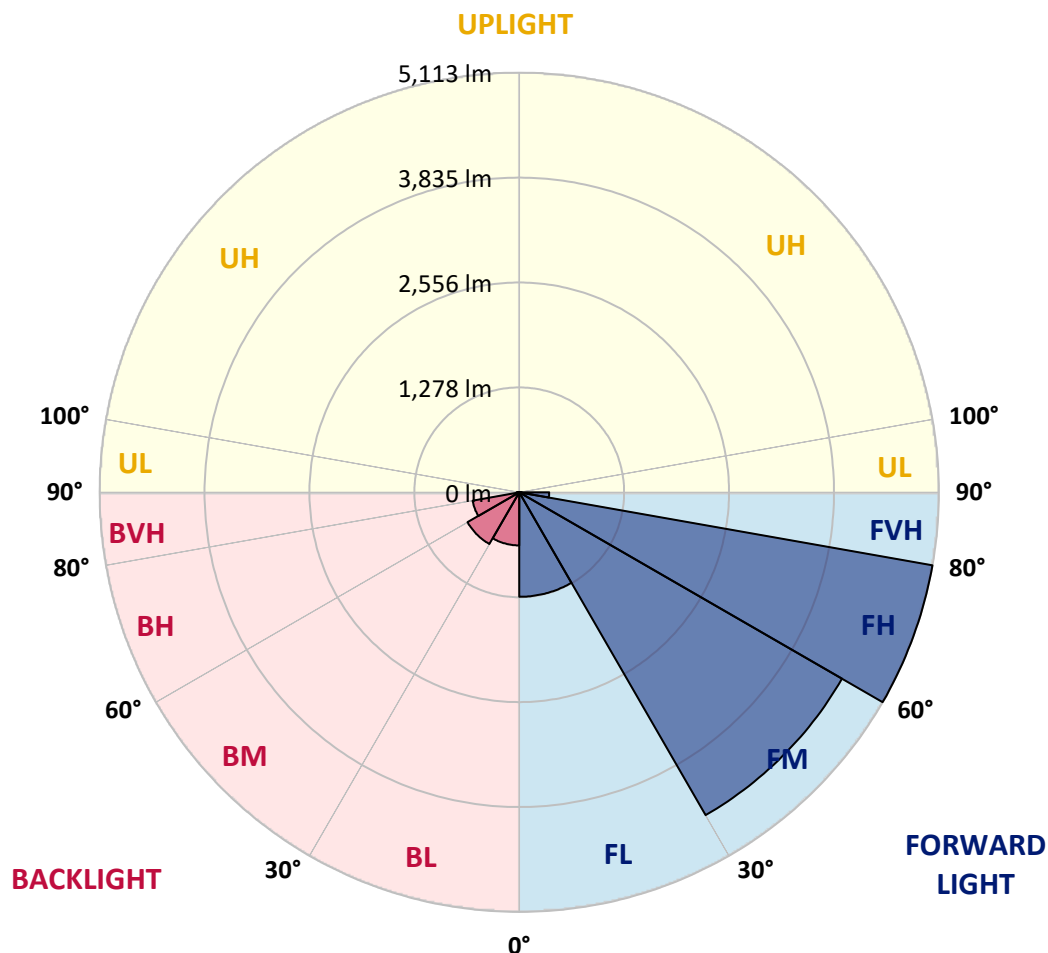
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.8	9.6			
FM	(30°-60°)	4541.4	34.2			
FH	(60°-80°)	5112.8	38.5			G3/7500
FVH	(80°-90°)	365.0	2.7			G3/500
BL	(0°-30°)	647.1	4.9	B2/1000		
BM	(30°-60°)	728.0	5.5	B1/1000		
BH	(60°-80°)	576.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	33.1	0.2			G1/100
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°	55°	58°	65°	75°	85°
0°	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6
2.5°	3776.2	3771.1	3773.0	3769.3	3760.5	3751.7	3738.7	3741.1	3723.0	3696.2	3662.9
5°	3705.0	3703.1	3717.0	3724.9	3731.3	3726.3	3722.6	3727.2	3700.8	3663.8	3606.0
7.5°	3555.6	3535.2	3552.8	3579.2	3604.2	3623.1	3648.1	3651.3	3634.7	3595.8	3520.0
10°	3343.3	3323.9	3349.8	3391.0	3440.9	3486.2	3536.6	3545.9	3549.1	3514.0	3421.9
12.5°	3123.2	3108.4	3134.3	3192.1	3274.9	3344.7	3425.2	3439.0	3467.7	3444.1	3331.3
15°	2926.2	2920.6	2952.1	3008.9	3104.2	3211.0	3327.1	3352.6	3401.1	3393.3	3260.5
17.5°	2756.0	2754.6	2778.6	2838.3	2943.7	3078.8	3229.5	3272.6	3344.7	3354.0	3202.3
20°	2629.2	2626.5	2643.1	2687.0	2795.7	2948.8	3124.1	3183.3	3287.4	3319.7	3142.1
22.5°	2561.2	2560.8	2561.2	2582.1	2670.9	2813.3	3021.4	3093.6	3231.4	3292.4	3075.5
25°	2549.7	2548.3	2538.1	2535.8	2586.2	2700.0	2919.7	2999.2	3178.2	3273.5	3012.2
27.5°	2579.7	2581.6	2568.2	2546.4	2556.6	2625.5	2831.3	2916.4	3135.7	3269.8	2968.2
30°	2642.2	2641.3	2629.7	2607.0	2587.1	2597.8	2768.4	2853.5	3107.0	3286.0	2938.2
32.5°	2711.1	2716.2	2713.9	2701.4	2671.8	2629.2	2749.5	2832.7	3098.7	3324.8	2925.2
35°	2793.9	2799.4	2816.1	2825.8	2791.1	2722.7	2790.2	2862.3	3122.7	3397.9	2946.0
37.5°	2872.5	2886.8	2933.6	2974.7	2945.1	2868.8	2898.4	2949.7	3197.2	3513.0	3002.0
40°	2963.2	2975.6	3051.9	3139.4	3134.7	3055.6	3072.8	3107.0	3328.5	3678.2	3103.3
42.5°	3052.4	3077.4	3187.9	3311.9	3347.5	3277.6	3304.9	3323.0	3513.5	3896.9	3280.0
45°	3171.3	3198.1	3351.6	3501.0	3584.3	3545.0	3588.4	3595.4	3746.1	4194.8	3536.6
47.5°	3351.2	3381.7	3560.7	3717.5	3844.6	3848.8	3920.5	3917.7	4036.6	4535.6	3859.9
50°	3631.4	3675.4	3822.0	3968.6	4123.1	4209.1	4304.8	4291.4	4384.8	4898.7	4232.2
52.5°	3998.7	4019.0	4127.7	4235.9	4427.8	4620.7	4758.1	4746.0	4779.8	5271.9	4654.9
55°	4379.3	4394.5	4439.4	4498.6	4756.7	5071.2	5361.6	5342.6	5257.1	5659.4	5072.6
57.5°	4721.5	4752.5	4783.5	4808.0	5087.8	5542.0	5979.0	5980.4	5775.1	6077.5	5504.1
60°	4774.7	4802.0	5006.9	5200.2	5654.4	6170.0	6639.9	6626.0	6311.1	6531.2	5985.0
62.5°	4220.7	4282.2	4624.4	5138.7	6200.1	7318.8	7483.0	7465.9	6952.1	7090.4	6545.1
65°	3024.7	3094.5	3507.5	4280.3	5935.6	8584.7	9004.6	8774.3	7826.2	7778.1	7200.9
67.5°	1745.0	1761.6	1940.6	2561.2	4519.4	8650.8	11325.8	11003.5	9183.6	8558.3	7521.9
70°	1290.3	1289.9	1332.4	1576.2	2445.6	7060.3	12429.8	12718.8	10612.7	8815.0	7068.2
71°	1166.9	1168.2	1215.9	1434.6	1936.9	5909.7	12195.3	12828.0	10989.1	8688.3	6739.8
72.5°	998.0	1002.7	1068.8	1286.6	1629.3	4075.4	11185.2	12173.1	11167.7	8375.6	6226.0
75°	757.1	767.7	859.3	1084.5	1489.2	2066.9	8209.1	9720.5	9920.8	7390.5	4626.3
77.5°	540.2	552.2	655.8	912.0	1415.7	1557.7	5497.6	7090.4	7300.8	4736.3	2086.7
80°	341.3	355.7	433.8	725.6	1330.1	1479.0	3454.8	4765.9	3981.1	1515.6	530.9
82.5°	200.3	211.4	269.2	474.0	1086.4	1424.5	2032.6	2641.7	1549.3	457.9	241.4
85°	116.1	121.2	167.9	302.0	789.0	1344.4	1493.4	1476.7	672.5	223.8	114.2
87.5°	54.1	60.1	99.4	157.7	438.0	974.5	1180.3	1019.8	418.1	105.0	53.6
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°	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6
2.5°	3646.7	3638.8	3606.0	3576.9	3546.3	3506.6	3462.6	3457.1	3430.3	3435.3	3426.1
5°	3574.6	3554.7	3475.6	3403.9	3319.3	3243.4	3161.1	3123.2	3068.6	3064.9	3051.0
7.5°	3471.4	3434.4	3311.9	3175.9	3039.9	2910.4	2782.3	2698.1	2612.1	2575.6	2572.3
10°	3355.3	3292.4	3112.1	2910.9	2714.8	2525.6	2342.5	2207.0	2084.9	2027.1	2024.8
12.5°	3245.3	3152.3	2904.9	2631.1	2362.8	2117.7	1866.6	1688.5	1535.5	1484.1	1462.4
15°	3151.8	3021.0	2703.2	2353.1	2027.5	1687.2	1401.3	1214.0	1072.5	1023.5	1014.2
17.5°	3061.2	2892.9	2496.5	2072.4	1678.8	1304.7	1018.4	879.2	803.8	783.9	783.5
20°	2971.0	2761.0	2280.5	1785.2	1341.7	975.8	783.0	720.6	695.1	692.8	689.1
22.5°	2868.8	2621.4	2053.4	1497.1	1047.1	767.3	665.5	640.5	637.3	645.6	645.6
25°	2773.1	2482.6	1823.1	1215.0	814.4	640.1	594.3	589.2	598.0	612.8	614.2
27.5°	2683.8	2349.0	1598.4	964.3	652.6	563.8	544.8	550.8	566.5	583.7	584.1
30°	2610.3	2222.7	1380.1	759.9	551.3	506.9	503.6	515.7	532.8	546.2	549.4
32.5°	2553.4	2115.0	1169.2	610.9	485.1	464.3	467.1	477.3	487.9	495.3	500.4
35°	2527.0	2022.5	974.5	515.2	443.1	431.5	435.2	440.7	445.4	450.9	455.1
37.5°	2531.7	1950.8	800.6	455.5	414.9	408.8	408.8	408.8	408.8	411.6	412.1
40°	2574.7	1909.6	659.0	417.6	395.9	389.4	384.3	379.7	376.0	377.9	376.9
42.5°	2684.7	1905.9	555.4	393.6	380.6	370.0	359.8	353.3	348.7	350.6	351.5
45°	2871.6	1952.2	485.6	376.5	366.3	350.1	337.2	330.2	327.0	333.0	333.9
47.5°	3113.5	2053.0	443.1	364.0	352.9	331.6	317.7	311.3	312.2	321.0	323.3
50°	3425.2	2216.7	422.7	356.1	343.6	315.9	301.5	296.0	298.8	311.3	314.0
52.5°	3767.4	2452.6	425.0	353.8	337.6	304.3	289.1	282.6	287.2	298.8	301.1
55°	4162.4	2736.1	463.4	357.0	328.8	296.9	278.9	267.8	271.5	282.1	284.0
57.5°	4601.3	3060.7	540.6	356.1	317.7	290.0	268.2	251.6	254.4	260.8	262.7
60°	5058.2	3452.9	660.4	358.9	312.6	281.7	253.9	233.1	232.2	237.7	238.6
62.5°	5606.7	3906.6	797.3	360.7	315.9	271.0	234.9	214.6	211.8	213.2	214.1
65°	6171.9	4235.0	746.0	353.3	326.1	262.2	218.3	196.6	191.5	190.5	191.0
67.5°	6189.5	3883.0	523.1	338.5	330.2	257.6	205.8	181.3	173.0	169.7	169.3
70°	5550.8	3154.6	407.5	322.8	313.6	250.2	194.2	168.8	156.3	151.2	150.8
71°	5239.0	2904.0	386.2	315.0	301.1	242.8	189.2	163.3	150.3	144.8	143.8
72.5°	4750.2	2603.3	360.3	302.5	277.0	223.8	179.4	155.4	142.0	135.5	134.1
75°	3409.0	1702.4	309.4	269.6	229.4	178.5	157.2	139.7	128.1	120.2	119.3
77.5°	1313.5	677.5	234.0	224.3	175.7	139.7	129.5	120.7	112.4	104.5	104.1
80°	406.1	302.9	170.7	168.8	127.2	104.1	100.8	98.5	95.3	86.9	85.1
82.5°	216.9	173.9	117.5	109.1	83.2	69.4	73.1	74.0	74.5	65.7	64.7
85°	103.6	92.0	66.1	62.0	48.6	38.8	44.9	48.6	49.0	40.2	37.5
87.5°	49.5	48.1	31.0	23.6	18.0	12.9	15.7	19.4	21.3	15.3	13.4
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)