

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: P319908

Luminaire Tested: **GAN-SA4A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14938 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

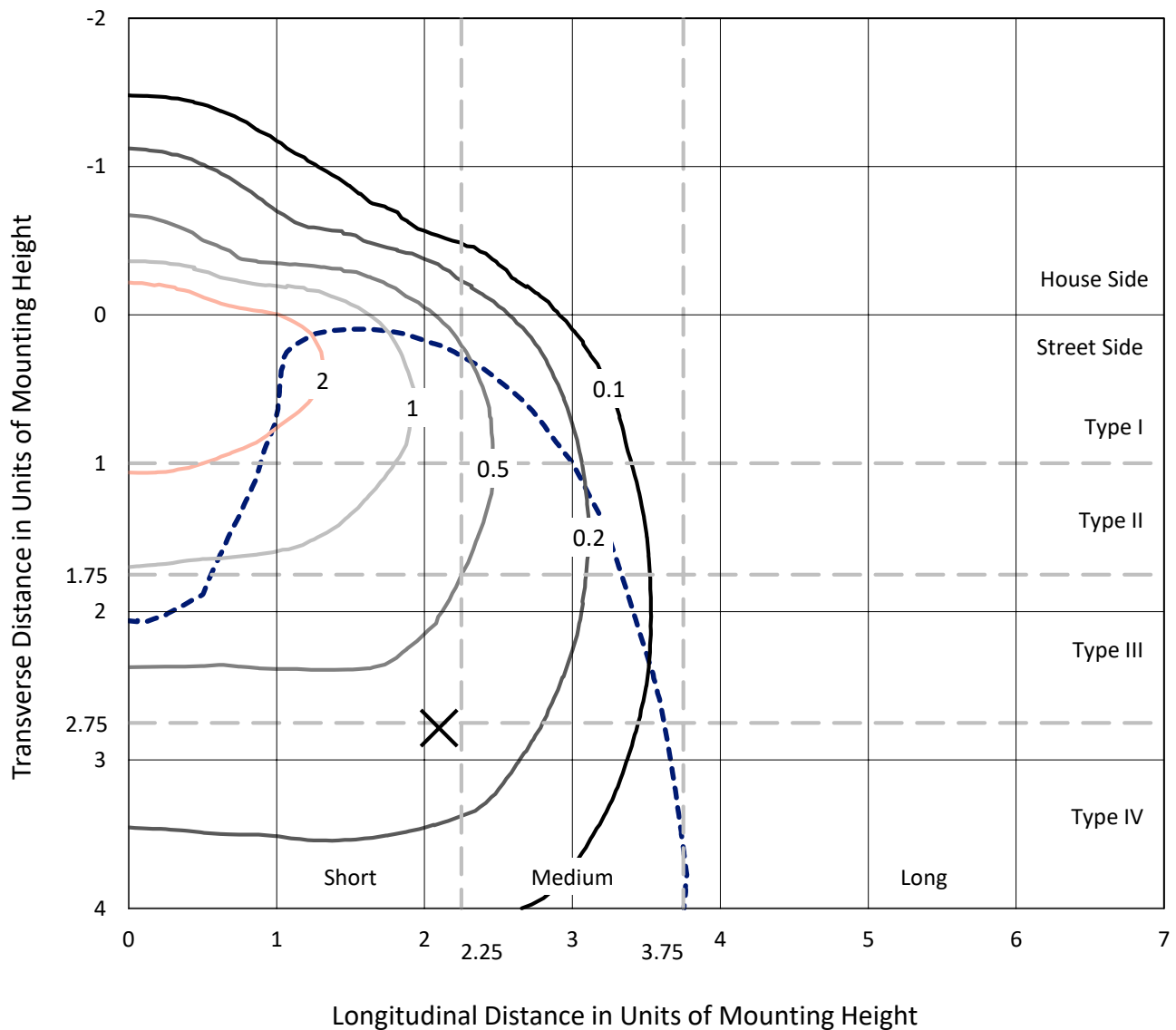
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

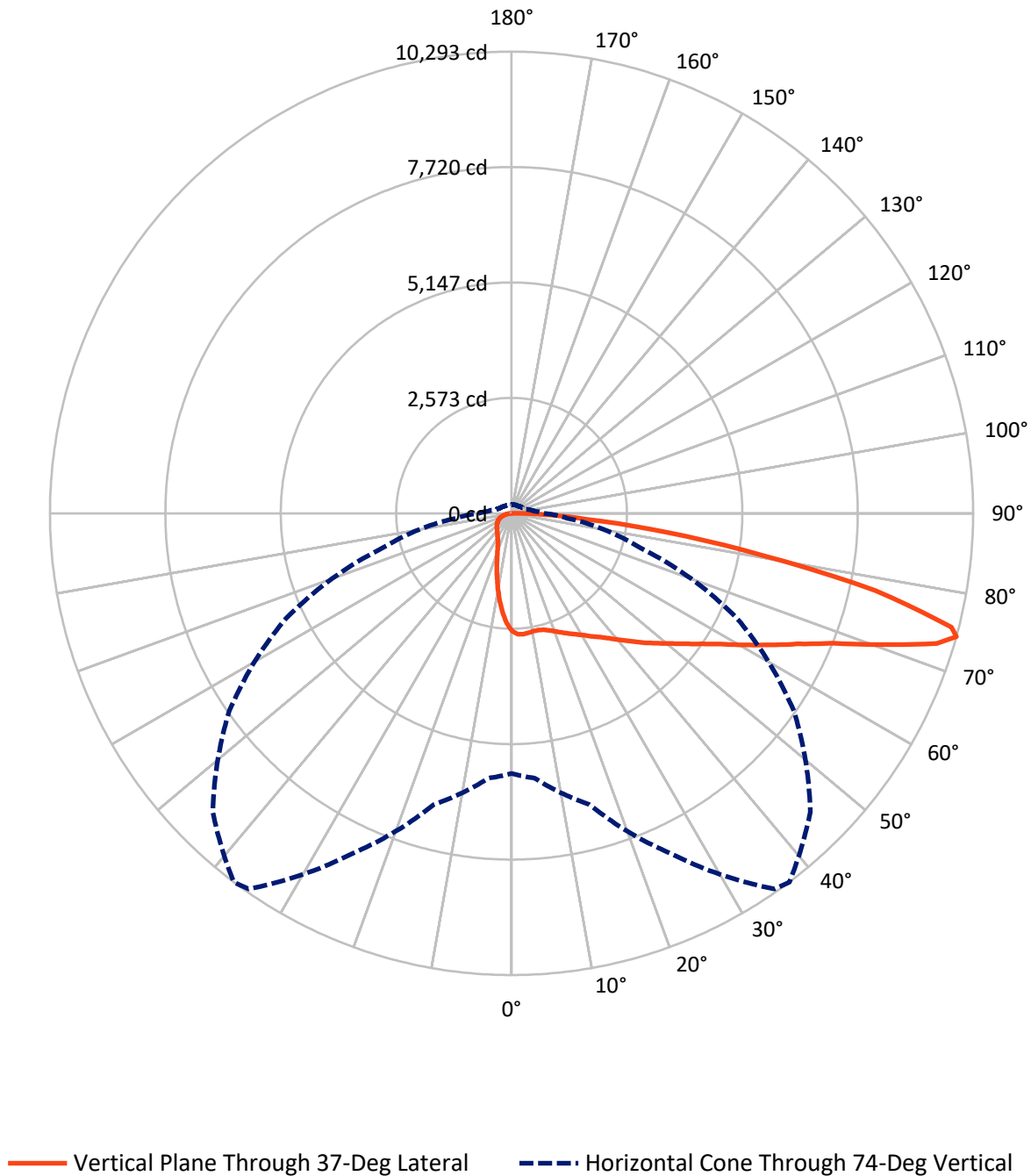
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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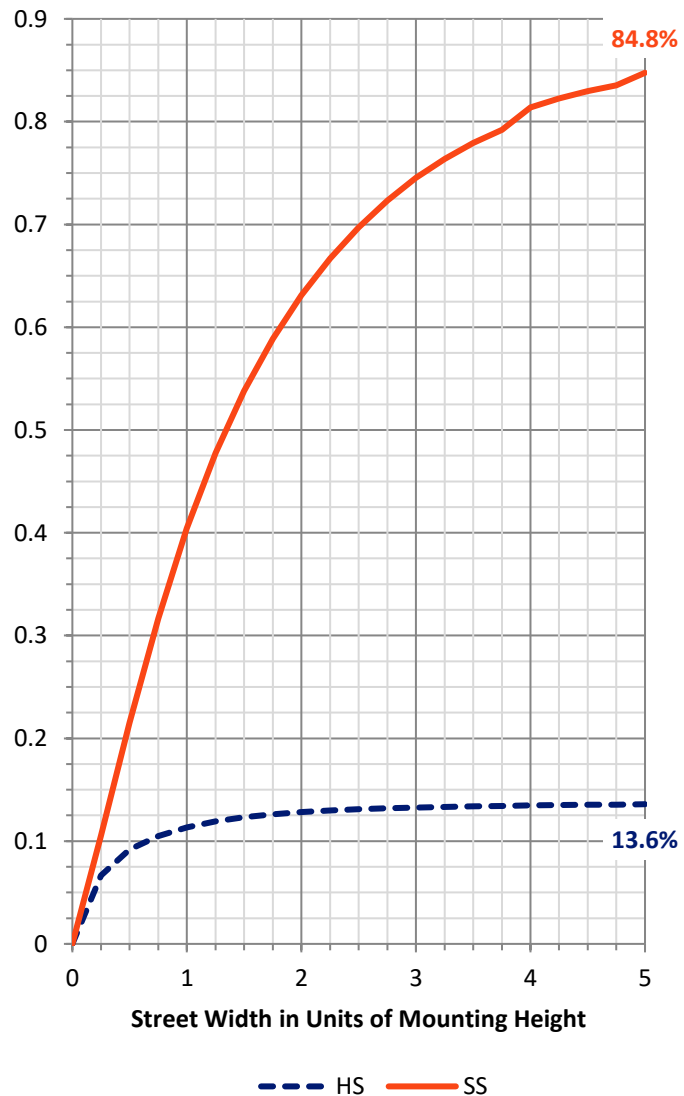
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.4	0.0	2055.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	12882.6	0.0	12882.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	14938.0	0.0	14938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	1.6
10°-20°	594.1	4.0
20°-30°	915.4	6.1
30°-40°	1331.1	8.9
40°-50°	1959.2	13.1
50°-60°	2751.4	18.4
60°-70°	3482.4	23.3
70°-80°	3066.4	20.5
80°-90°	606.3	4.1
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°	14938.0	100.0
0°-180°	14938.0	100.0

Coefficient of Utilization



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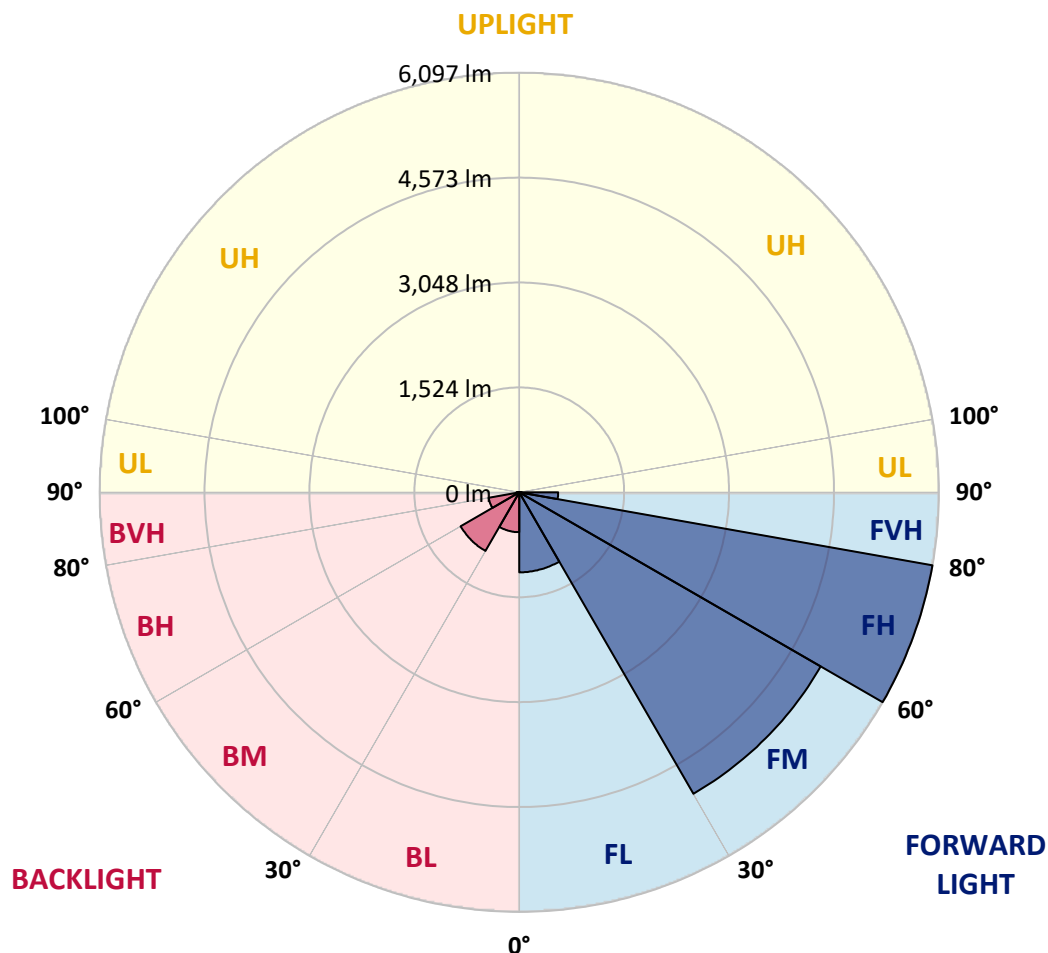
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.4	7.8			
FM	(30°-60°)	5058.1	33.9			
FH	(60°-80°)	6096.9	40.8			G3/7500
FVH	(80°-90°)	565.2	3.8			G4/750
BL	(0°-30°)	578.9	3.9	B2/1000		
BM	(30°-60°)	983.6	6.6	B1/1000		
BH	(60°-80°)	451.8	3.0	B1/500		G1/500
BVH	(80°-90°)	41.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0
2.5°	2722.0	2722.5	2722.0	2717.8	2707.8	2699.4	2692.5	2682.5	2660.4	2643.6	2618.3
5°	2747.8	2744.6	2742.5	2734.6	2718.8	2709.4	2696.2	2677.3	2641.0	2607.3	2566.2
7.5°	2735.7	2732.0	2727.3	2717.8	2699.9	2692.0	2673.6	2648.9	2605.2	2561.0	2502.0
10°	2698.3	2697.3	2695.2	2693.1	2677.8	2671.5	2654.6	2628.3	2585.2	2531.5	2462.6
12.5°	2656.7	2659.4	2667.8	2678.8	2672.0	2668.9	2658.3	2640.4	2596.2	2538.4	2455.2
15°	2630.4	2637.8	2660.4	2689.4	2695.2	2694.1	2691.5	2679.9	2633.1	2568.9	2472.1
17.5°	2621.5	2633.6	2676.7	2724.6	2741.5	2745.1	2746.2	2726.2	2674.1	2606.2	2489.4
20°	2637.8	2653.1	2716.2	2782.0	2808.8	2810.9	2806.2	2771.5	2713.1	2638.3	2498.9
22.5°	2687.3	2700.9	2779.9	2854.1	2884.6	2887.7	2873.5	2820.9	2754.1	2676.2	2512.0
25°	2782.5	2799.3	2878.3	2952.5	2968.3	2968.8	2948.3	2883.0	2807.8	2729.4	2540.5
27.5°	2906.7	2923.5	2994.6	3067.2	3058.8	3054.0	3026.1	2960.9	2877.7	2802.5	2591.0
30°	3045.1	3063.5	3130.8	3182.4	3162.4	3152.9	3130.3	3046.1	2975.1	2902.5	2668.3
32.5°	3188.2	3205.0	3264.0	3299.2	3274.0	3269.8	3235.6	3158.7	3101.9	3055.1	2793.6
35°	3335.0	3347.1	3405.0	3425.0	3391.3	3390.3	3380.8	3310.3	3274.5	3296.6	2975.6
37.5°	3485.0	3488.1	3537.6	3538.6	3528.7	3532.9	3542.9	3498.7	3508.7	3577.6	3212.4
40°	3618.6	3627.0	3662.8	3673.9	3691.2	3706.0	3756.0	3727.0	3804.4	3926.5	3507.1
42.5°	3717.6	3733.9	3791.2	3819.6	3875.9	3899.1	3969.6	3996.4	4152.2	4335.3	3857.5
45°	3801.2	3826.5	3918.6	3977.0	4072.2	4112.7	4213.8	4303.7	4545.3	4778.9	4226.4
47.5°	3891.7	3923.8	4039.1	4150.6	4280.1	4325.8	4509.5	4644.2	4964.6	5225.1	4574.2
50°	4024.9	4049.6	4162.2	4337.4	4499.0	4557.9	4812.0	5005.1	5390.8	5650.3	4875.7
52.5°	4210.6	4201.1	4296.4	4542.1	4758.9	4831.5	5135.1	5389.3	5822.9	6034.9	5130.4
55°	4397.4	4381.6	4448.4	4756.3	5062.0	5138.3	5490.8	5775.0	6233.8	6381.1	5325.6
57.5°	4605.2	4575.2	4631.6	4997.8	5407.2	5498.2	5889.2	6184.9	6637.9	6661.1	5449.8
60°	4819.4	4778.9	4842.0	5297.2	5845.5	5952.8	6355.4	6584.8	7018.9	6885.2	5489.8
62.5°	5006.7	4978.3	5075.7	5631.3	6339.6	6457.4	6813.1	7009.9	7394.6	6978.4	5345.6
65°	5170.4	5175.1	5343.5	6007.0	6890.5	7016.3	7338.3	7534.0	7690.3	6923.1	5008.3
67.5°	5365.6	5392.4	5679.7	6501.6	7584.0	7721.9	8102.3	8105.5	7855.5	6599.0	4344.2
70°	5650.3	5705.5	6142.3	7187.8	8570.1	8759.5	9053.2	8441.2	7623.5	5720.2	3418.2
72.5°	5902.8	6006.0	6634.2	7972.9	9771.9	9915.6	9609.3	8247.6	6653.7	4286.9	2129.5
74°	5800.2	5928.1	6723.7	8359.6	10224.5	10293.4	9421.5	7682.4	5547.7	2968.8	1237.6
75°	5579.2	5718.1	6593.2	8355.9	10167.1	10128.7	8967.9	7036.8	4568.9	2024.8	823.5
77.5°	4502.6	4649.4	5555.5	7161.5	8336.5	8300.2	6888.9	4720.5	2001.1	664.1	418.3
80°	2617.8	2729.9	3448.7	4547.9	5621.3	5687.1	4530.5	2335.8	787.2	373.1	283.6
82.5°	1162.9	1240.2	1665.9	2321.6	3392.4	3477.1	2372.6	1223.9	486.2	226.8	170.5
85°	763.0	820.3	1011.3	1105.5	1615.4	1673.3	1161.3	952.9	321.0	124.7	125.2
87.5°	548.8	604.1	751.4	656.2	741.4	701.9	632.0	881.9	128.9	71.0	42.1
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°	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0
2.5°	2607.3	2598.9	2579.9	2544.1	2524.1	2507.3	2479.4	2463.1	2455.7	2455.2	2458.4
5°	2542.6	2523.1	2474.2	2414.2	2366.3	2322.6	2268.4	2235.8	2212.6	2199.0	2202.6
7.5°	2467.3	2436.8	2360.0	2264.2	2187.4	2102.7	2019.0	1969.0	1930.1	1901.1	1906.4
10°	2415.8	2373.7	2261.6	2123.7	1995.9	1872.7	1757.5	1688.6	1633.8	1591.7	1594.9
12.5°	2398.4	2341.6	2186.3	2002.2	1822.7	1654.4	1503.9	1398.1	1341.8	1293.9	1297.6
15°	2401.0	2324.7	2123.2	1892.7	1667.0	1454.9	1272.3	1148.7	1072.4	1039.2	1039.8
17.5°	2403.1	2305.3	2056.9	1775.4	1512.8	1268.7	1070.3	945.0	873.0	842.4	843.0
20°	2396.3	2273.7	1974.8	1640.7	1351.8	1097.6	905.6	799.3	744.6	720.9	720.9
22.5°	2387.3	2236.3	1882.2	1505.4	1192.9	949.3	787.7	706.7	675.1	659.3	658.8
25°	2391.5	2208.4	1787.5	1366.5	1046.6	830.9	709.3	655.6	634.6	624.6	624.1
27.5°	2414.2	2195.3	1700.1	1228.1	918.7	741.9	656.7	618.8	605.1	598.8	598.8
30°	2455.2	2195.3	1609.1	1110.3	812.4	676.2	616.2	590.4	580.9	576.7	576.7
32.5°	2526.8	2207.4	1521.2	993.5	727.7	624.6	582.5	565.1	557.8	555.7	555.7
35°	2649.9	2248.4	1435.5	883.0	659.3	582.5	550.4	540.4	535.1	534.6	536.2
37.5°	2823.0	2332.1	1354.9	801.4	610.9	548.3	523.6	515.7	512.5	515.1	517.2
40°	3040.9	2445.7	1281.8	727.7	574.1	520.9	498.8	493.6	492.0	495.7	498.8
42.5°	3304.0	2599.4	1221.8	674.6	545.7	497.8	477.8	471.5	469.9	474.1	478.3
45°	3588.6	2764.6	1179.7	635.1	523.6	480.4	459.4	452.5	449.4	451.5	456.2
47.5°	3847.5	2920.9	1162.9	607.2	502.5	465.7	443.1	434.6	429.4	428.3	432.0
50°	4065.9	3037.2	1170.8	590.4	485.7	449.4	427.3	417.8	409.9	405.2	407.8
52.5°	4224.8	3110.3	1178.1	583.0	472.5	431.5	409.9	401.0	390.4	382.5	382.5
55°	4340.0	3127.2	1161.8	577.2	462.5	412.0	390.4	382.0	371.5	362.5	361.5
57.5°	4385.3	3079.8	1101.3	568.8	455.7	393.6	369.9	363.6	354.7	344.1	343.6
60°	4324.3	2933.5	984.5	550.9	446.7	378.3	349.4	345.2	341.0	331.0	330.4
62.5°	4079.0	2612.5	833.5	514.6	428.8	362.0	330.4	332.6	333.1	326.2	325.2
65°	3634.4	2171.6	686.2	467.3	402.0	342.6	311.0	321.0	326.8	325.7	324.1
67.5°	2988.3	1690.1	581.4	417.3	366.8	315.7	289.9	301.5	306.2	309.9	308.9
70°	2217.9	1191.8	480.9	364.7	324.1	284.1	262.6	268.4	265.2	269.4	271.0
72.5°	1236.6	715.1	392.0	312.0	279.9	247.3	232.1	231.0	224.2	224.2	224.2
74°	741.9	524.6	344.7	279.4	253.1	223.1	210.0	205.2	198.9	199.4	198.9
75°	596.7	450.9	316.2	257.8	234.2	208.9	195.7	189.4	184.7	184.7	184.2
77.5°	376.8	342.6	254.7	205.2	187.3	172.1	163.1	154.7	154.7	154.2	153.6
80°	284.7	272.6	198.4	155.2	143.7	132.1	126.3	122.6	122.6	124.2	123.7
82.5°	195.2	205.2	139.4	108.4	102.6	94.2	93.1	93.7	92.1	90.0	89.5
85°	142.6	154.2	94.2	68.4	62.6	57.4	61.6	63.7	61.0	56.3	54.2
87.5°	54.7	101.0	50.5	28.4	26.3	22.6	26.3	27.4	29.5	23.2	23.7
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)