

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: P318509

Luminaire Tested: **GAN-SA5A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17125 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

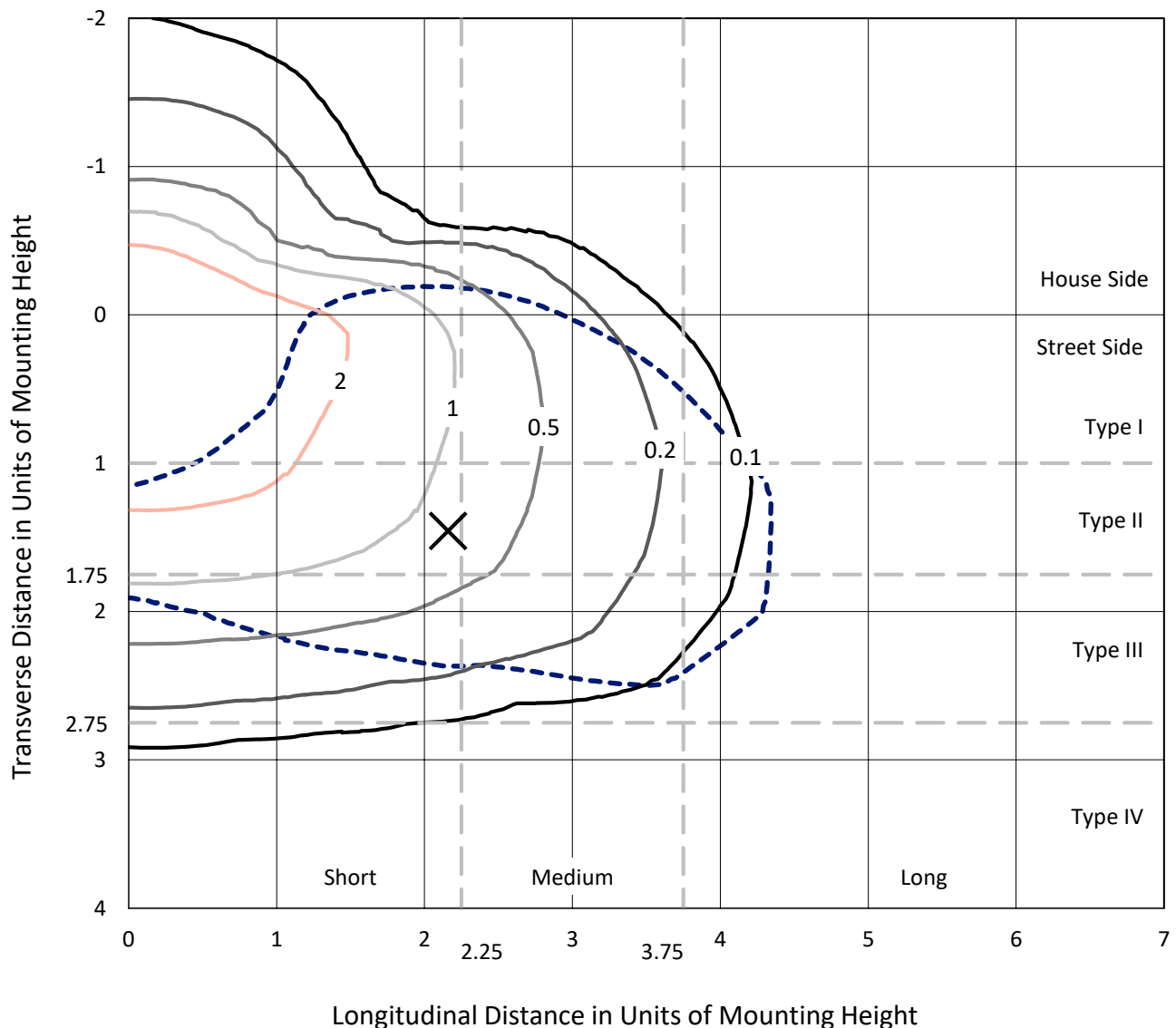
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

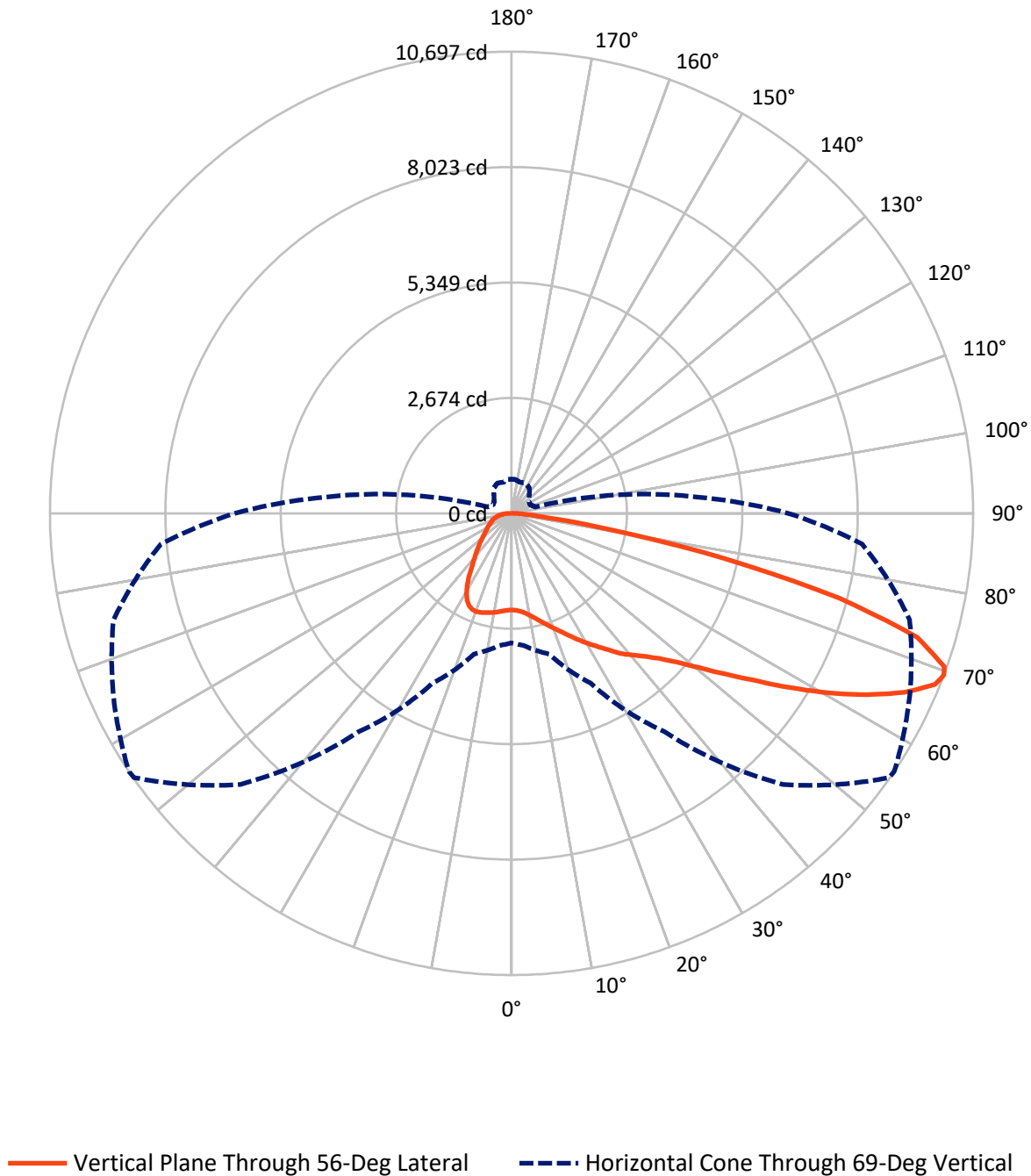
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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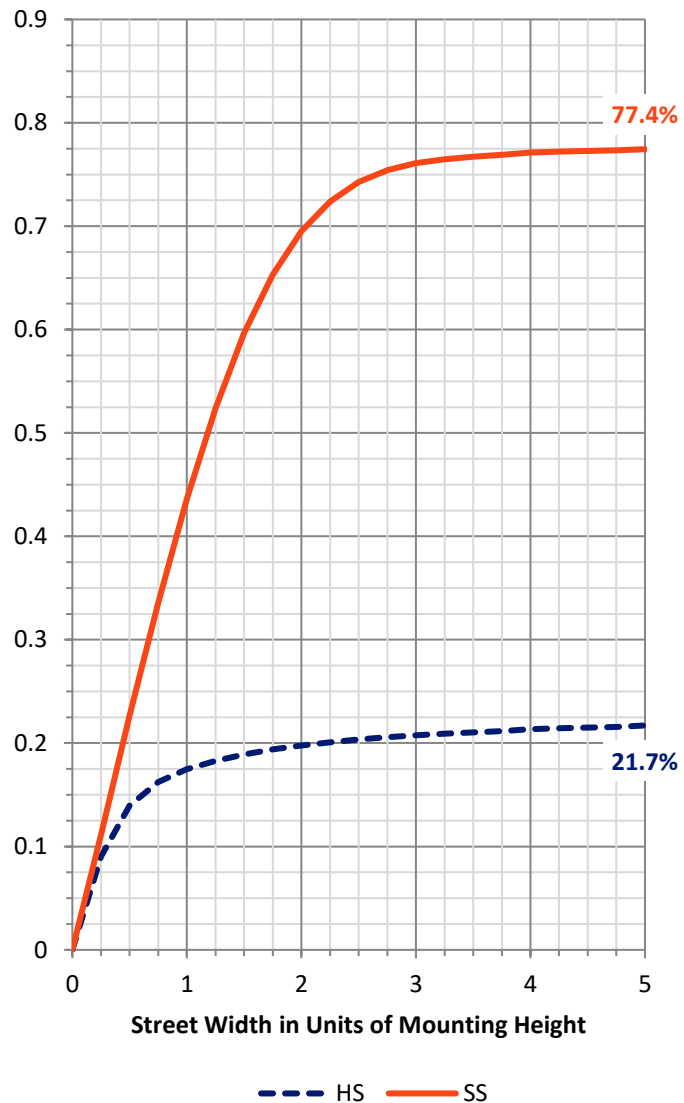
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3813.7	0.0	3813.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13311.3	0.0	13311.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	17125.0	0.0	17125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.3
10°-20°	707.1	4.1
20°-30°	1234.3	7.2
30°-40°	1773.0	10.4
40°-50°	2453.7	14.3
50°-60°	3595.1	21.0
60°-70°	4383.1	25.6
70°-80°	2423.2	14.2
80°-90°	335.6	2.0
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°	17125.0	100.0
0°-180°	17125.0	100.0

Coefficient of Utilization



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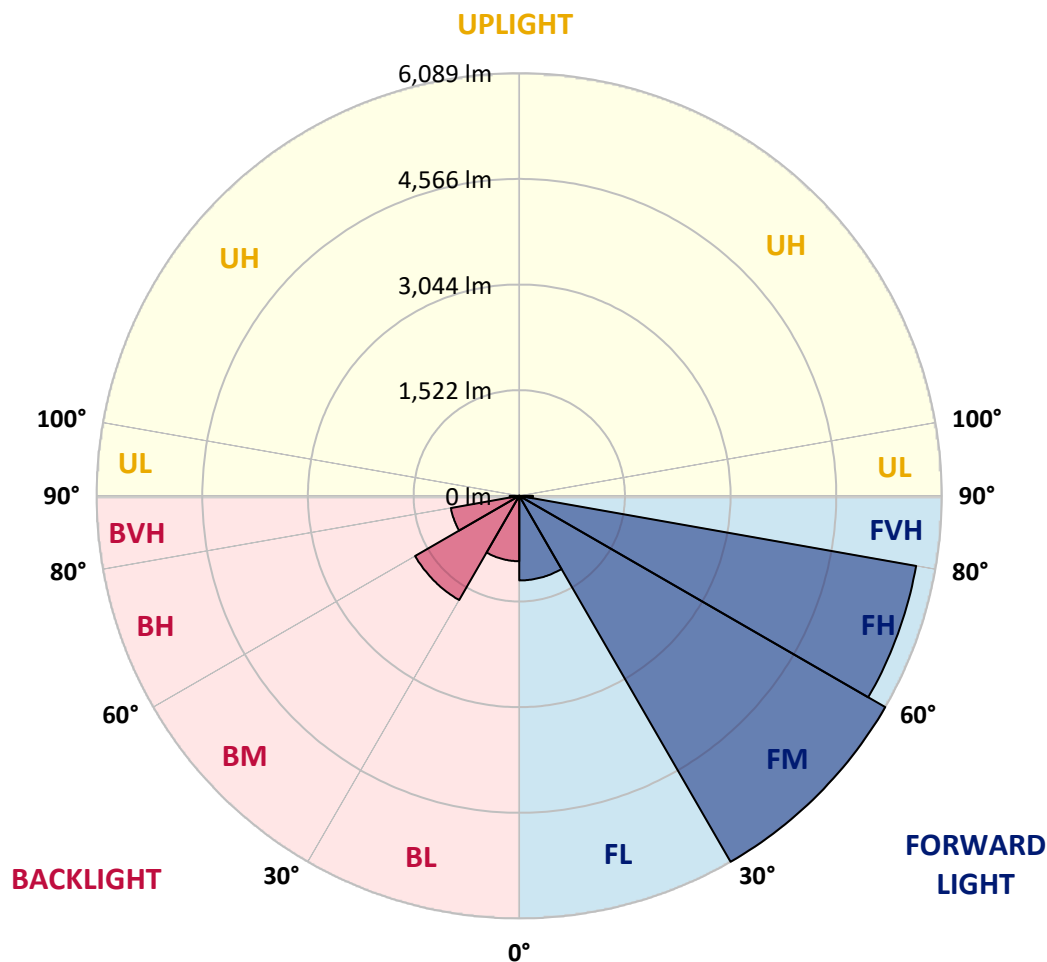
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1218.8	7.1			
FM	(30°-60°)	6088.6	35.6			
FH	(60°-80°)	5806.2	33.9			G3/7500
FVH	(80°-90°)	197.7	1.2			G2/225
BL	(0°-30°)	942.5	5.5	B2/1000		
BM	(30°-60°)	1733.2	10.1	B2/2500		
BH	(60°-80°)	1000.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	137.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8
2.5°	2253.0	2255.4	2253.6	2258.3	2253.0	2256.5	2253.6	2253.6	2251.8	2246.5	2240.6
5°	2288.4	2293.1	2290.2	2294.9	2288.4	2289.6	2284.3	2284.3	2279.0	2267.7	2255.9
7.5°	2343.8	2349.2	2346.8	2351.5	2342.7	2342.7	2335.6	2335.0	2324.4	2306.1	2292.5
10°	2409.9	2417.0	2414.6	2421.7	2414.6	2417.0	2409.9	2409.9	2395.8	2369.8	2352.7
12.5°	2506.1	2514.9	2508.4	2507.9	2504.9	2509.6	2503.7	2502.5	2489.6	2454.2	2430.6
15°	2634.7	2644.1	2630.6	2629.4	2612.9	2611.1	2611.1	2609.3	2601.1	2558.6	2519.6
17.5°	2782.8	2785.7	2773.9	2755.0	2733.8	2720.2	2718.5	2723.2	2723.2	2673.6	2611.7
20°	2927.9	2933.2	2923.8	2902.5	2875.4	2855.3	2841.2	2850.6	2850.0	2791.0	2703.1
22.5°	3086.0	3098.4	3084.2	3057.1	3025.2	3002.8	2978.0	2986.3	2986.9	2914.3	2792.8
25°	3290.7	3279.5	3270.6	3232.3	3186.9	3163.9	3140.9	3149.1	3146.8	3047.1	2885.4
27.5°	3471.8	3474.2	3462.4	3421.7	3369.2	3318.4	3317.3	3322.6	3313.7	3185.1	2972.7
30°	3682.4	3683.6	3667.1	3630.5	3573.3	3507.8	3492.5	3501.3	3482.4	3316.1	3064.8
32.5°	3891.9	3897.8	3879.5	3835.2	3789.2	3709.6	3678.9	3684.8	3637.6	3450.0	3159.7
35°	4075.3	4083.6	4077.7	4048.2	3998.0	3929.6	3893.0	3889.5	3831.1	3614.0	3285.4
37.5°	4262.3	4270.0	4263.5	4238.7	4218.7	4146.1	4126.7	4126.7	4025.2	3781.5	3445.3
40°	4454.7	4466.5	4458.8	4424.6	4407.5	4374.4	4327.8	4316.6	4206.9	3982.7	3706.0
42.5°	4633.4	4648.8	4679.4	4659.4	4624.6	4629.3	4535.5	4529.6	4449.4	4280.0	4033.4
45°	4887.1	4909.5	4961.4	4946.1	4939.0	4913.1	4801.6	4796.2	4765.6	4680.0	4439.9
47.5°	5163.8	5194.5	5288.3	5291.2	5367.3	5318.3	5166.7	5148.4	5155.5	5159.1	4936.1
50°	5418.6	5452.3	5606.2	5678.8	5858.1	5868.8	5626.3	5609.8	5637.5	5718.9	5514.2
52.5°	5622.2	5664.6	5857.0	6081.1	6388.5	6475.8	6192.0	6179.7	6200.3	6340.7	6167.9
55°	5771.4	5817.4	6026.9	6435.1	6925.9	7079.9	6843.3	6831.5	6844.5	7023.3	6878.7
57.5°	5806.2	5817.4	6121.3	6673.4	7379.6	7749.5	7640.4	7616.8	7553.0	7708.8	7663.4
60°	5642.8	5687.6	6043.4	6757.2	7730.6	8409.6	8473.4	8443.9	8265.1	8392.5	8356.0
62.5°	5311.3	5391.5	5752.5	6629.8	7868.1	8948.9	9290.4	9255.0	8947.1	9029.7	8853.9
65°	4769.7	4803.9	5183.2	6190.3	7693.5	9294.0	10019.0	10001.3	9613.7	9484.5	8945.9
67.5°	3801.0	3865.3	4187.4	5271.7	6979.0	9253.3	10582.4	10580.6	10049.1	9653.2	8619.7
69°	3002.8	3069.5	3376.2	4342.6	6175.5	8881.0	10676.8	10697.4	10171.8	9550.6	8153.6
70°	2394.0	2471.3	2681.9	3657.7	5462.3	8390.2	10598.3	10635.5	10148.2	9381.3	7723.5
72.5°	1018.8	1081.4	1231.2	1885.5	3329.1	6265.2	9690.4	9830.8	9601.3	8586.0	6383.2
75°	444.8	464.3	532.1	768.7	1477.8	3409.9	7591.4	7851.0	8209.7	7257.5	4754.9
77.5°	325.6	333.9	371.1	451.3	663.1	1287.8	4881.8	5032.8	5920.7	5281.2	2916.7
80°	251.9	257.8	286.7	331.5	433.0	520.9	2226.4	2356.2	3329.1	2712.6	1214.7
82.5°	200.6	204.7	224.8	244.2	299.1	315.6	739.2	820.0	1228.9	749.2	321.5
85°	186.4	191.1	198.2	178.2	191.7	185.2	319.7	334.5	371.1	294.4	134.5
87.5°	84.4	99.7	196.5	138.6	102.1	81.4	131.0	136.9	154.0	154.6	59.6
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°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8
2.5°	2244.1	2242.4	2245.3	2238.2	2247.1	2246.5	2243.6	2244.7	2250.6	2250.0	2250.6
5°	2257.7	2256.5	2260.1	2254.8	2265.4	2268.9	2269.5	2274.8	2281.3	2283.1	2283.1
7.5°	2291.9	2291.9	2293.7	2286.6	2293.7	2293.1	2290.2	2295.5	2302.0	2302.5	2302.0
10°	2350.9	2351.5	2348.6	2330.3	2324.4	2308.4	2293.7	2294.3	2302.5	2309.0	2310.8
12.5°	2425.3	2422.9	2409.9	2376.3	2351.5	2319.1	2303.7	2303.1	2311.4	2316.7	2318.5
15°	2510.2	2503.7	2470.1	2415.2	2371.6	2339.7	2314.9	2309.0	2304.3	2298.4	2299.0
17.5°	2590.4	2575.7	2519.6	2443.5	2397.5	2355.1	2307.3	2268.9	2242.4	2227.0	2222.3
20°	2671.9	2642.9	2562.1	2470.1	2411.7	2334.4	2242.4	2164.5	2116.1	2093.7	2089.6
22.5°	2746.2	2699.6	2601.7	2497.8	2400.5	2264.8	2120.3	2007.0	1939.7	1909.6	1912.0
25°	2818.8	2753.9	2642.9	2517.3	2343.8	2142.1	1950.4	1811.1	1733.3	1699.6	1698.4
27.5°	2882.5	2808.7	2687.8	2501.4	2238.2	1967.5	1749.2	1613.5	1548.6	1519.7	1515.0
30°	2955.6	2877.7	2747.4	2440.6	2083.7	1765.7	1552.7	1457.2	1411.1	1382.2	1376.9
32.5°	3044.7	2971.5	2796.3	2330.3	1886.0	1555.1	1399.3	1332.7	1290.8	1258.3	1252.5
35°	3174.5	3095.4	2808.7	2172.2	1669.0	1388.7	1286.7	1218.2	1161.6	1119.7	1115.6
37.5°	3337.3	3250.6	2780.4	1967.5	1458.3	1280.8	1192.9	1108.5	1034.8	975.8	966.3
40°	3572.1	3441.1	2701.9	1731.5	1303.2	1197.6	1101.4	1005.3	913.8	844.8	831.2
42.5°	3854.1	3664.7	2581.6	1496.7	1189.3	1113.2	1010.6	891.4	804.1	755.1	748.0
45°	4212.8	3897.2	2414.6	1291.4	1077.2	1028.9	912.6	802.9	748.6	712.7	706.8
47.5°	4622.2	4157.9	2239.4	1124.4	982.3	949.8	834.2	763.4	720.3	692.0	686.7
50°	5125.4	4452.3	2053.6	987.6	886.7	854.8	797.0	741.6	707.3	685.5	680.2
52.5°	5693.0	4784.4	1919.7	879.6	807.6	784.6	777.5	729.8	702.0	685.5	680.2
55°	6304.1	5122.5	1775.1	788.8	739.2	745.7	764.6	730.9	712.1	692.0	684.3
57.5°	6915.9	5471.7	1614.1	712.1	684.9	716.8	755.7	733.3	717.4	697.9	690.8
60°	7399.7	5693.0	1364.5	647.8	641.9	684.9	734.5	715.6	695.0	695.5	694.4
62.5°	7625.6	5681.2	1089.0	590.5	598.8	641.9	700.3	687.9	670.8	693.8	695.5
65°	7498.8	5398.0	847.7	538.6	552.8	597.0	664.9	674.3	680.2	724.5	730.4
67.5°	6966.6	4847.0	656.6	493.2	510.9	566.3	668.4	734.5	742.1	788.8	788.2
69°	6416.2	4330.2	570.5	469.6	490.2	574.0	714.4	772.8	743.9	793.5	786.4
70°	5954.9	3921.4	524.5	453.7	480.8	587.6	745.1	772.2	735.1	777.5	765.7
72.5°	4586.2	2821.1	444.8	424.2	448.9	562.2	753.9	755.1	714.4	722.7	702.6
75°	3145.6	1782.8	388.2	384.1	400.6	506.8	725.6	721.5	660.7	648.9	632.4
77.5°	1734.4	905.6	329.8	345.7	356.9	448.9	659.6	653.7	603.5	578.7	572.8
80°	669.0	396.4	278.5	307.4	314.4	388.8	578.1	572.8	530.9	499.1	490.2
82.5°	252.5	207.7	230.1	266.1	263.7	320.9	489.7	486.7	446.0	399.4	385.2
85°	116.8	124.5	182.3	219.5	202.4	237.7	391.7	397.0	347.5	292.0	292.0
87.5°	49.6	69.6	129.2	165.8	136.3	160.5	287.3	274.3	251.9	174.6	164.0
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)