

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: P318950

Luminaire Tested: **GAN-SA6A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23146 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

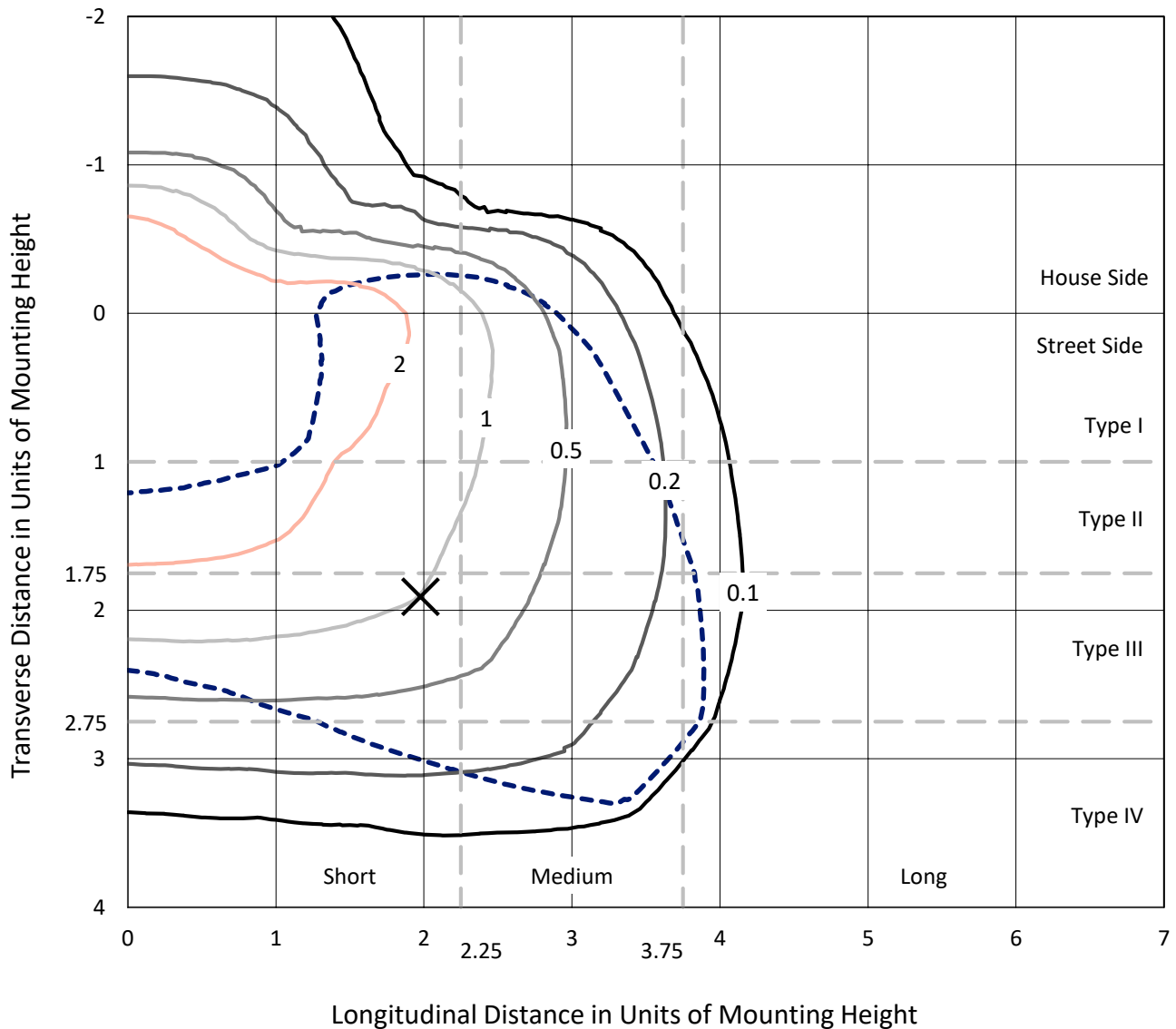
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

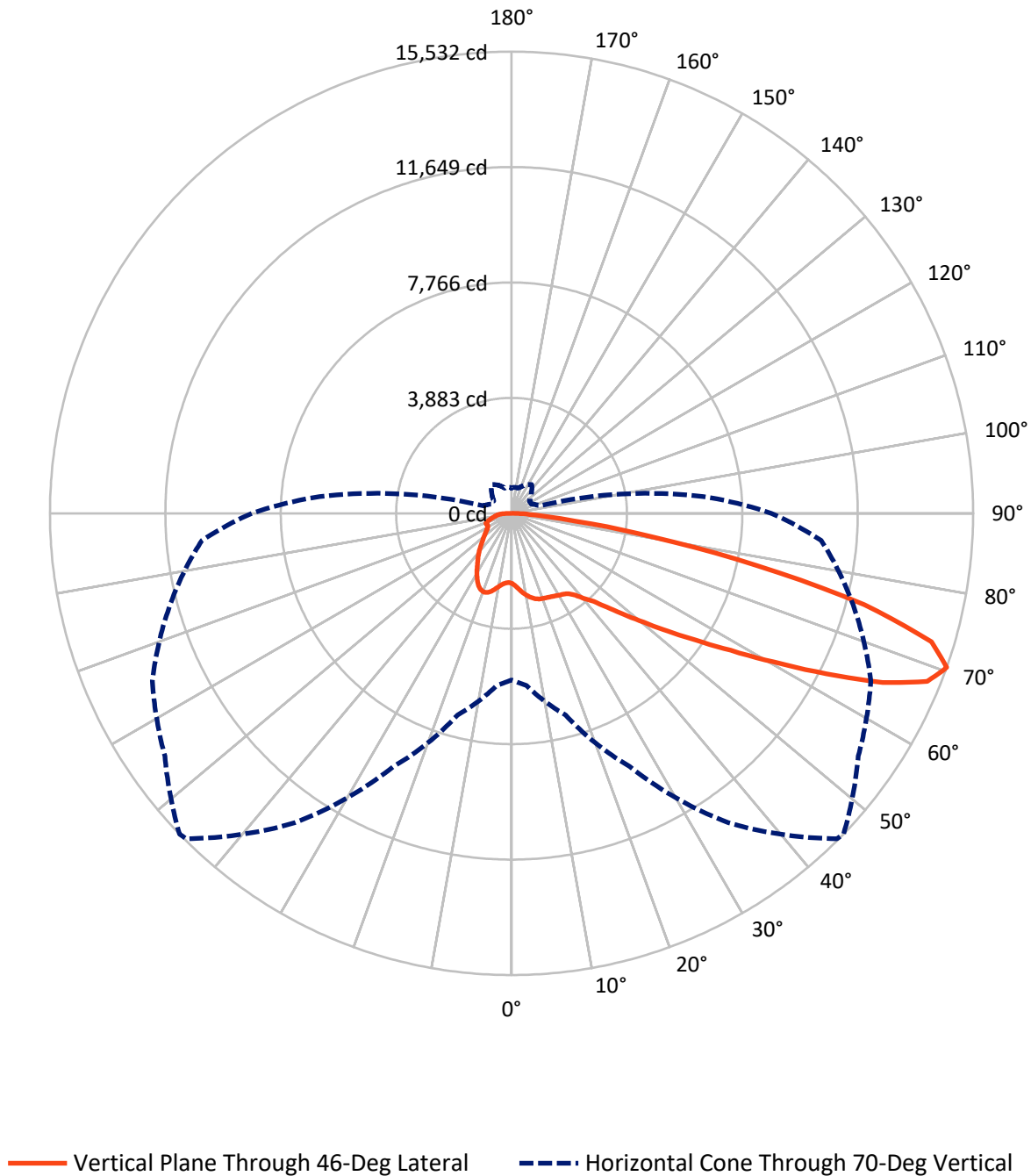
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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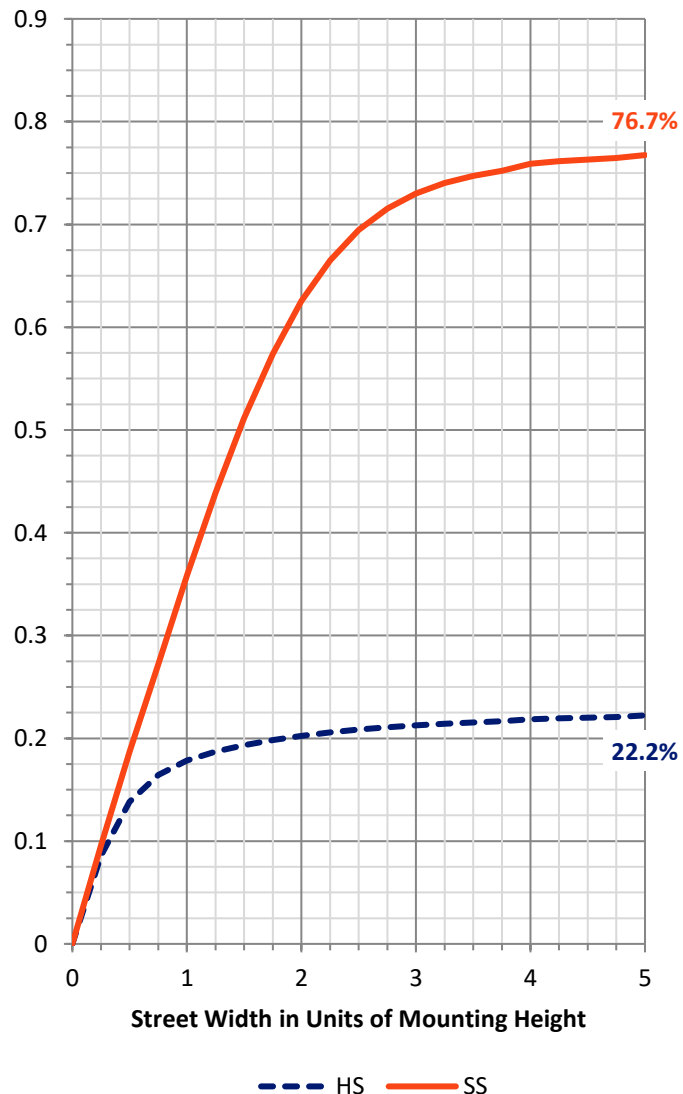
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5305.0	0.0	5305.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17841.0	0.0	17841.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	23146.0	0.0	23146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.0
10°-20°	800.9	3.5
20°-30°	1335.4	5.8
30°-40°	1895.1	8.2
40°-50°	2787.5	12.0
50°-60°	4720.7	20.4
60°-70°	6700.9	29.0
70°-80°	4070.9	17.6
80°-90°	594.1	2.6
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°	23146.0	100.0
0°-180°	23146.0	100.0

Coefficient of Utilization



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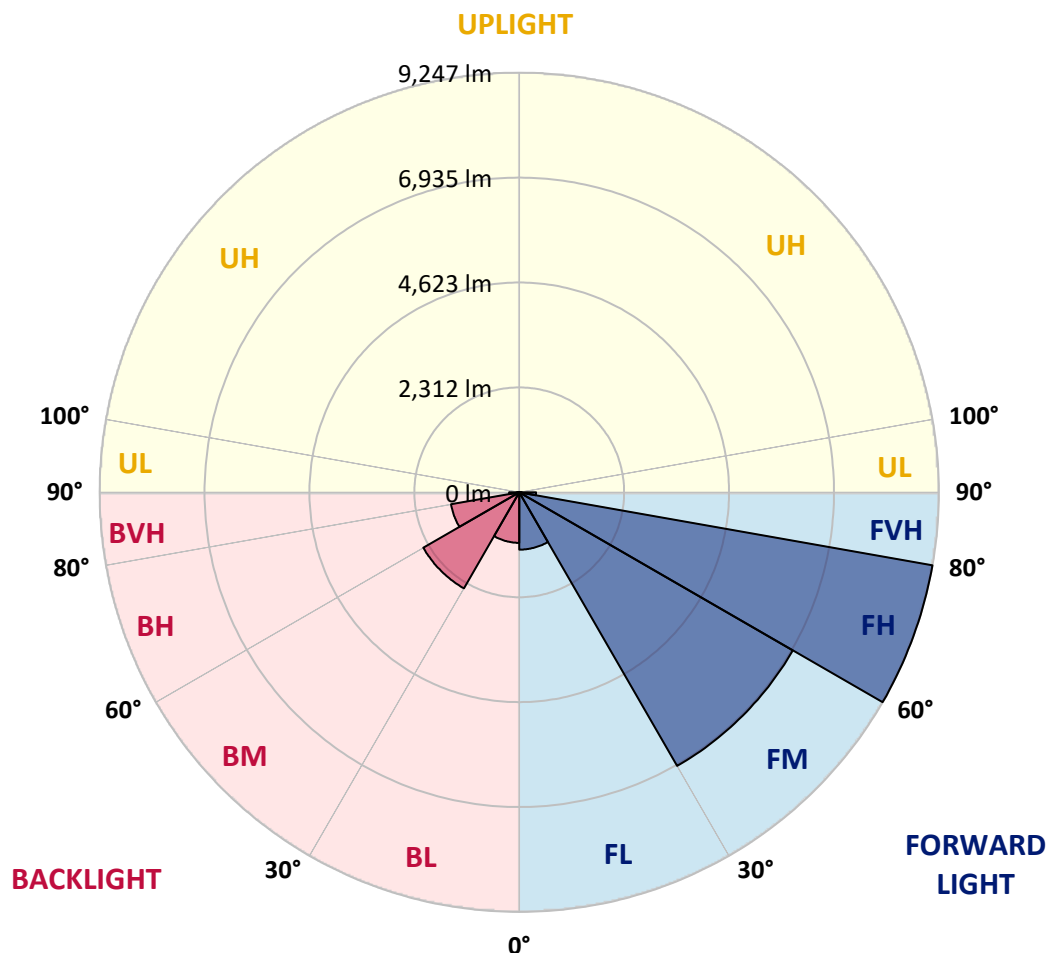
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.0	5.5			
FM	(30°-60°)	6961.3	30.1			
FH	(60°-80°)	9246.7	39.9			G4/12000
FVH	(80°-90°)	370.1	1.6			G3/500
BL	(0°-30°)	1113.8	4.8	B3/2500		
BM	(30°-60°)	2442.0	10.6	B2/2500		
BH	(60°-80°)	1525.1	6.6	B3/2500		G3/2500
BVH	(80°-90°)	224.0	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	2476.1	2477.7	2480.9	2473.0	2450.8	2444.5	2442.1	2419.1	2404.1	2381.9	2362.9
5°	2674.2	2675.8	2671.0	2648.8	2599.7	2563.3	2560.1	2507.8	2460.3	2409.6	2371.6
7.5°	2880.9	2883.3	2868.2	2826.3	2757.3	2694.0	2690.0	2618.7	2546.6	2469.8	2412.8
10°	3063.9	3054.4	3029.8	2971.2	2889.6	2812.0	2808.8	2734.4	2651.2	2558.5	2482.5
12.5°	3185.9	3178.0	3146.3	3075.0	2985.5	2914.2	2907.9	2838.9	2758.1	2656.8	2565.7
15°	3253.2	3258.8	3216.0	3135.2	3048.1	2987.9	2982.3	2933.2	2861.1	2758.9	2654.4
17.5°	3261.9	3266.7	3225.5	3145.5	3074.2	3033.0	3030.6	2998.2	2945.9	2847.7	2738.3
20°	3211.2	3214.4	3180.3	3114.6	3067.9	3055.2	3054.4	3040.1	3001.3	2914.2	2808.0
22.5°	3137.6	3139.9	3115.4	3067.9	3052.0	3071.8	3077.4	3071.8	3044.1	2962.5	2862.7
25°	3119.3	3117.8	3092.4	3044.1	3057.6	3099.5	3106.7	3109.0	3090.0	3018.7	2932.4
27.5°	3207.3	3201.7	3153.4	3075.8	3084.5	3135.2	3144.7	3167.7	3155.8	3093.2	3011.6
30°	3461.5	3452.0	3353.0	3196.2	3153.4	3179.5	3191.4	3227.9	3230.2	3178.0	3117.0
32.5°	3890.9	3879.0	3701.6	3421.1	3269.8	3224.7	3235.8	3290.4	3319.8	3279.4	3213.6
35°	4433.5	4420.0	4187.1	3803.7	3464.7	3311.0	3319.0	3362.5	3421.1	3364.1	3277.0
37.5°	4999.0	4966.6	4742.4	4253.7	3774.4	3495.6	3495.6	3501.1	3528.9	3410.1	3351.4
40°	5561.4	5529.0	5326.2	4782.8	4175.2	3786.3	3768.1	3645.3	3623.1	3520.9	3501.1
42.5°	6084.2	6074.7	5955.1	5380.8	4645.8	4072.3	4046.9	3838.6	3843.3	3780.0	3780.8
45°	6640.3	6640.3	6542.9	5984.4	5193.9	4531.7	4506.3	4199.8	4247.3	4218.0	4288.5
47.5°	7094.2	7108.4	7095.0	6613.4	5831.5	5115.5	5069.5	4700.4	4833.5	4934.1	5139.2
50°	7557.6	7579.7	7582.1	7303.3	6602.3	5809.4	5757.1	5365.0	5662.0	5950.4	6353.5
52.5°	8230.1	8280.0	8081.2	7991.6	7546.5	6633.2	6581.7	6219.7	6715.5	7120.3	7815.0
55°	8853.5	8809.9	8668.1	8723.6	8557.2	7571.0	7532.2	7214.6	7889.5	8415.4	9317.6
57.5°	9190.9	9187.7	9330.3	9567.9	9647.2	8727.5	8695.0	8386.1	9213.1	9608.3	10728.4
60°	9587.0	9592.5	9945.8	10485.2	10811.6	10167.6	10153.3	9918.9	10498.7	10722.1	11835.0
62.5°	9642.4	9742.2	10350.6	11278.9	11901.5	11850.0	11881.7	11299.5	11648.8	11610.8	12661.2
65°	9004.8	9136.2	10237.3	11518.9	12985.1	13690.1	13719.4	12688.1	12555.8	12370.4	12956.6
67.5°	7697.8	7892.6	9088.7	10996.9	13342.4	15050.2	15091.4	13764.6	13308.3	12627.9	12245.3
70°	5601.8	5818.1	7022.1	9392.1	12705.5	15485.0	15531.8	14240.6	13336.8	11895.2	10453.5
72.5°	3383.9	3553.4	4545.9	6914.4	10723.6	14692.9	14776.1	13637.0	12176.4	10075.7	7719.2
75°	1486.0	1596.9	2198.1	3984.3	7677.2	12156.6	12260.3	11672.6	9893.5	7322.3	4562.6
77.5°	632.9	664.6	901.4	1730.8	4340.0	8306.9	8449.5	8528.7	6712.4	3984.3	1928.0
80°	394.5	407.1	510.1	783.4	2031.0	4665.6	4819.2	5018.0	3333.2	1464.6	673.3
82.5°	240.0	254.3	339.0	473.7	1057.5	2114.9	2188.6	2328.8	1293.5	632.9	348.5
85°	144.2	154.5	207.5	299.4	602.0	831.7	830.9	918.9	609.1	407.1	183.8
87.5°	68.9	76.8	110.9	155.3	303.4	312.1	292.3	331.1	369.9	266.9	92.7
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°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	2356.5	2353.4	2343.1	2335.2	2333.6	2328.8	2324.9	2327.2	2330.4	2331.2	2331.2
5°	2355.7	2347.0	2333.6	2328.0	2335.2	2344.7	2356.5	2372.4	2381.9	2389.0	2393.8
7.5°	2393.8	2377.1	2362.1	2358.9	2373.2	2398.5	2425.5	2458.7	2481.7	2497.5	2500.7
10°	2457.1	2436.5	2421.5	2424.7	2450.0	2486.4	2524.5	2567.2	2602.1	2623.5	2625.1
12.5°	2530.0	2510.2	2496.0	2509.4	2551.4	2595.8	2635.4	2672.6	2704.3	2725.7	2725.7
15°	2614.0	2599.7	2583.1	2614.0	2671.0	2710.6	2727.2	2745.5	2762.9	2778.7	2775.6
17.5°	2694.8	2681.3	2672.6	2709.0	2768.4	2786.7	2775.6	2762.1	2762.1	2770.8	2772.4
20°	2764.5	2752.6	2758.1	2793.8	2824.7	2805.7	2764.5	2721.7	2704.3	2709.0	2713.8
22.5°	2825.5	2819.9	2836.6	2853.2	2831.0	2764.5	2688.4	2630.6	2609.2	2607.6	2609.2
25°	2896.8	2896.0	2916.6	2886.5	2788.2	2665.5	2563.3	2507.0	2495.2	2504.7	2520.5
27.5°	2985.5	2994.2	3004.5	2894.4	2701.1	2515.8	2412.0	2373.2	2385.1	2408.0	2423.1
30°	3098.8	3122.5	3100.3	2874.6	2576.0	2344.7	2245.6	2234.6	2267.0	2299.5	2315.4
32.5°	3208.9	3246.1	3192.2	2823.1	2414.4	2163.3	2086.4	2083.3	2122.9	2154.6	2176.7
35°	3297.6	3371.2	3261.1	2720.9	2227.4	1996.1	1939.9	1918.5	1932.8	1970.0	1995.3
37.5°	3413.2	3536.0	3308.7	2564.9	2024.6	1858.3	1792.6	1743.4	1730.8	1745.8	1758.5
40°	3624.7	3787.1	3330.8	2347.0	1826.6	1720.5	1653.9	1581.9	1531.9	1495.5	1496.3
42.5°	3970.1	4114.2	3316.6	2082.5	1643.6	1585.8	1510.6	1427.4	1346.6	1264.2	1257.9
45°	4530.9	4600.6	3273.8	1802.1	1482.8	1444.8	1374.3	1291.1	1183.4	1089.9	1081.2
47.5°	5428.4	5273.9	3207.3	1557.3	1341.0	1325.2	1260.3	1164.4	1050.3	975.1	968.8
50°	6652.2	6245.8	3174.8	1362.4	1215.9	1220.6	1167.6	1066.2	958.5	903.0	896.7
52.5°	8116.0	7377.8	3237.4	1211.9	1115.3	1131.9	1092.3	997.3	907.0	863.4	857.1
55°	9634.5	8550.1	3304.7	1102.6	1020.2	1052.7	1039.3	960.8	879.2	838.8	833.3
57.5°	10934.3	9425.4	3170.0	1013.9	935.5	986.2	998.1	937.9	865.0	828.6	822.2
60°	11752.6	9777.9	2816.8	930.7	868.2	933.1	974.3	931.5	870.5	867.4	862.6
62.5°	12140.7	9747.0	2286.8	865.0	826.2	910.1	991.7	967.2	933.9	962.4	964.8
65°	11966.5	9281.2	1703.0	821.4	796.1	918.9	1044.0	1034.5	952.1	980.6	984.6
67.5°	10819.5	8169.9	1261.0	783.4	762.8	943.4	1139.1	1056.7	916.5	937.1	924.4
70°	8744.9	6477.1	972.7	740.6	728.7	940.2	1181.8	1043.2	877.7	882.4	848.4
72.5°	6030.4	4416.8	791.3	701.0	679.6	857.1	1151.7	1009.9	845.2	808.7	763.6
75°	3279.4	2370.8	672.5	659.8	593.3	752.5	1096.3	986.2	815.9	767.6	742.2
77.5°	1290.4	983.8	583.8	603.6	518.8	664.6	1034.5	941.0	775.5	712.1	699.4
80°	526.8	502.2	484.0	522.0	446.0	581.4	960.0	888.0	727.2	660.6	635.3
82.5°	298.6	312.1	376.3	411.9	362.0	535.5	924.4	845.2	669.3	591.7	561.6
85°	152.9	183.0	262.2	295.5	266.2	455.5	851.5	739.8	537.1	453.1	455.5
87.5°	73.7	102.2	165.6	185.4	172.7	329.5	636.1	536.3	418.2	331.1	320.8
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)