

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: P322470

Luminaire Tested: **GAN-SA6A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16553 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

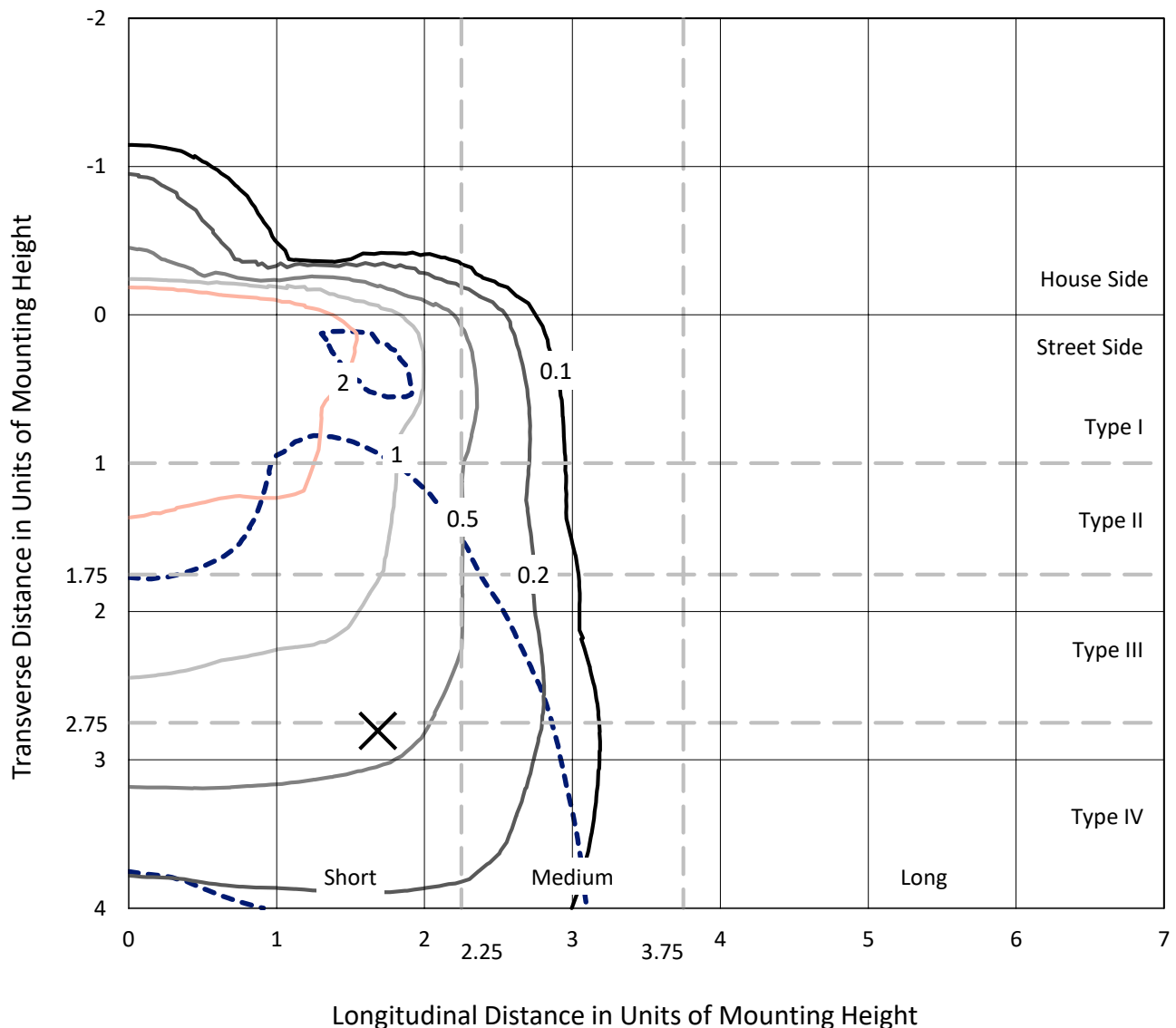
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

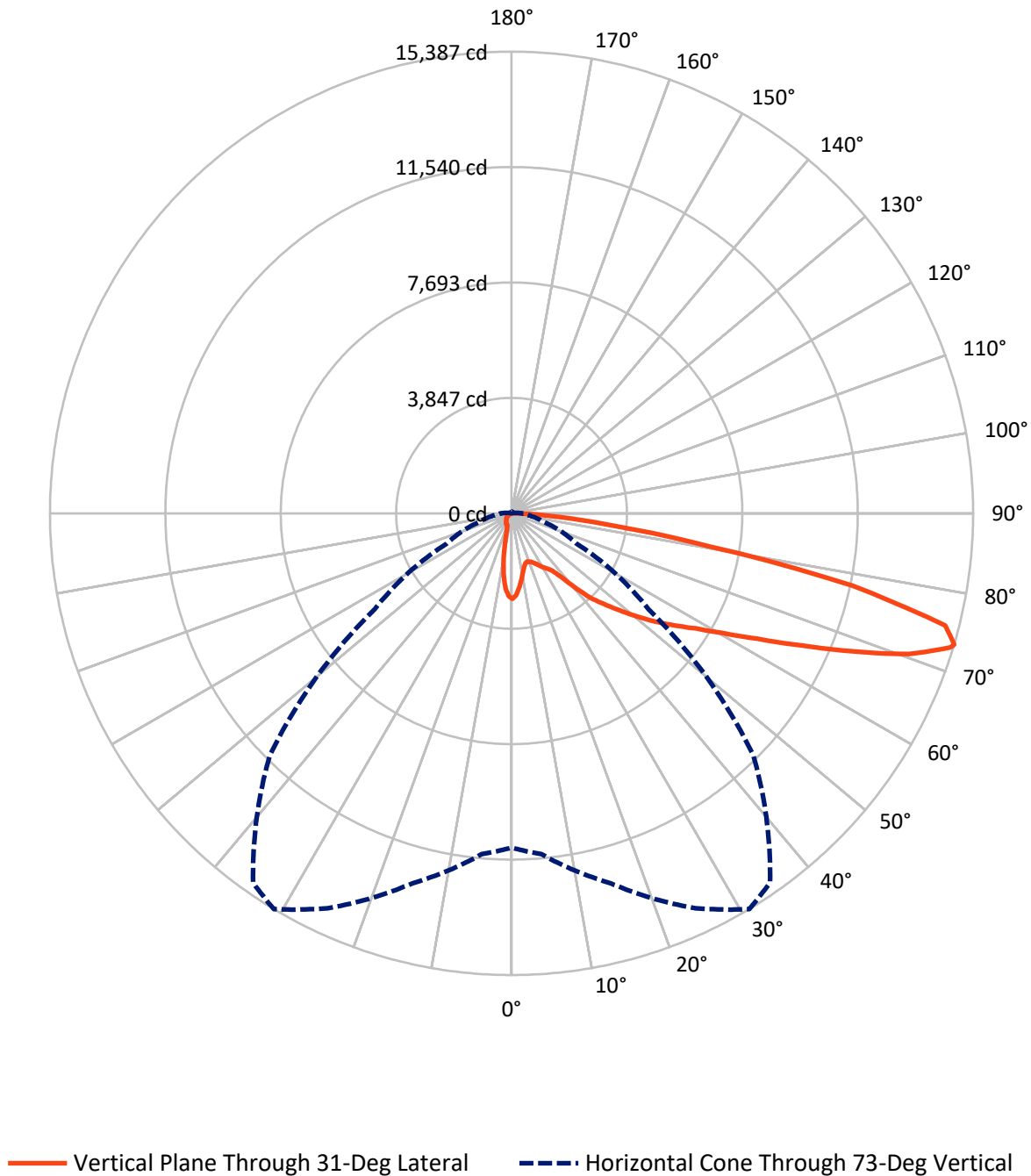
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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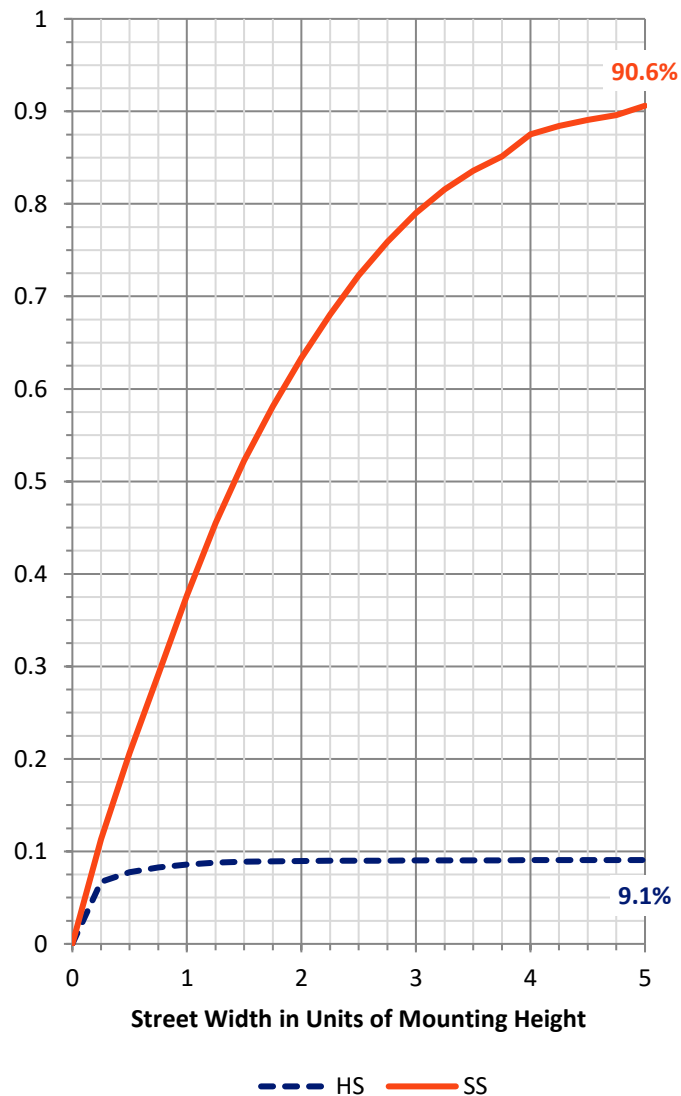
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.9	0.0	1508.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15044.1	0.0	15044.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	16553.0	0.0	16553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	1.4
10°-20°	512.7	3.1
20°-30°	768.2	4.6
30°-40°	1222.2	7.4
40°-50°	2182.5	13.2
50°-60°	3386.7	20.5
60°-70°	4502.1	27.2
70°-80°	3386.5	20.5
80°-90°	355.9	2.1
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°	16553.0	100.0
0°-180°	16553.0	100.0

Coefficient of Utilization



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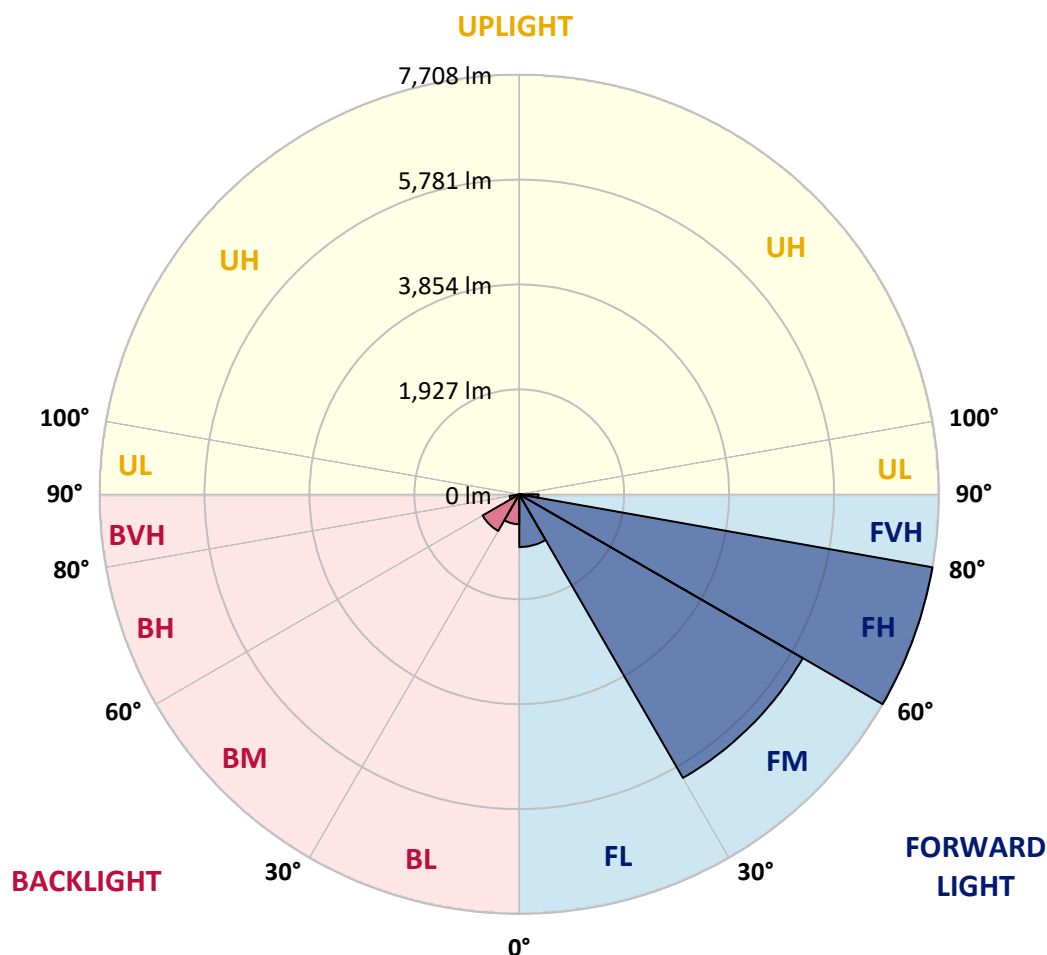
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.4	5.9			
FM	(30°-60°)	6014.8	36.3			
FH	(60°-80°)	7708.1	46.6			G4/12000
FVH	(80°-90°)	352.9	2.1			G3/500
BL	(0°-30°)	548.7	3.3	B2/1000		
BM	(30°-60°)	776.7	4.7	B1/1000		
BH	(60°-80°)	180.5	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0
2.5°	2698.9	2710.3	2722.4	2724.9	2745.1	2745.9	2775.1	2796.9	2818.8	2839.9	2847.2
5°	2421.9	2440.5	2462.4	2484.3	2527.2	2544.2	2615.5	2688.4	2758.1	2824.5	2856.9
7.5°	2126.3	2147.3	2178.1	2232.4	2280.2	2313.4	2426.0	2555.6	2685.2	2807.5	2877.9
10°	1856.5	1876.0	1908.4	1965.9	2039.6	2085.0	2236.4	2416.2	2606.6	2792.1	2909.5
12.5°	1684.8	1695.3	1713.2	1774.7	1841.1	1892.2	2070.4	2293.1	2541.8	2791.3	2960.6
15°	1653.2	1656.5	1641.9	1669.4	1721.3	1770.7	1951.3	2193.5	2492.4	2804.2	3027.0
17.5°	1703.4	1701.8	1653.2	1650.0	1691.3	1731.8	1893.0	2124.6	2457.6	2834.2	3112.8
20°	1779.6	1773.9	1689.7	1674.3	1718.0	1756.1	1888.9	2098.7	2444.6	2884.4	3217.3
22.5°	1880.8	1871.1	1739.1	1722.9	1769.9	1809.6	1939.2	2123.8	2455.9	2951.7	3338.8
25°	2006.4	1991.8	1824.1	1806.3	1854.1	1893.8	2029.1	2195.9	2490.0	3033.5	3492.7
27.5°	2148.1	2127.1	1960.2	1914.0	1968.3	2009.6	2148.9	2306.1	2543.4	3120.1	3681.5
30°	2281.8	2254.2	2103.6	2027.4	2093.9	2140.0	2278.5	2437.3	2629.3	3253.8	3939.9
32.5°	2416.2	2385.5	2231.6	2140.8	2200.8	2251.0	2412.2	2617.9	2790.5	3457.9	4283.3
35°	2725.7	2693.3	2504.5	2354.7	2353.9	2382.2	2599.3	2865.0	3003.5	3742.2	4693.2
37.5°	3246.5	3227.9	3048.0	2763.7	2687.6	2656.0	2854.5	3159.8	3309.7	4133.5	5155.7
40°	3816.7	3800.5	3598.9	3341.3	3225.4	3147.7	3220.6	3570.5	3742.2	4611.4	5627.9
42.5°	4460.7	4383.7	4024.1	3947.2	3843.5	3784.3	3718.7	4076.8	4273.6	5131.4	6096.1
45°	5045.5	4915.9	4449.4	4332.7	4309.2	4323.8	4360.3	4757.2	4871.4	5749.4	6562.7
47.5°	5393.8	5291.8	4933.7	4822.0	4815.5	4911.9	5187.3	5525.9	5466.7	6288.1	6973.3
50°	5725.1	5632.8	5335.5	5363.0	5393.0	5524.2	6126.1	6316.4	6010.2	6776.5	7350.0
52.5°	5993.2	5852.3	5696.8	5851.5	5998.9	6210.3	7094.8	7026.0	6395.8	7165.3	7672.4
55°	6147.9	6083.9	6159.3	6314.8	6591.8	6935.3	8009.3	7616.5	6677.7	7520.1	7887.0
57.5°	6714.9	6589.4	6739.2	6873.7	7235.0	7715.3	8792.6	8056.3	6881.0	7739.6	7936.4
60°	7401.0	7299.8	7388.1	7611.6	8099.2	8663.8	9524.8	8415.1	6987.1	7880.5	7808.4
62.5°	8492.9	8359.3	8304.2	8554.5	9200.8	9817.3	10080.5	8663.8	6963.6	7818.2	7369.4
65°	9955.8	9817.3	9571.0	9797.8	10620.0	11054.9	10701.8	8716.5	6801.6	7313.5	6259.7
67.5°	11454.3	11353.8	11143.2	11525.6	12267.5	12407.7	11358.7	8588.5	6280.0	5930.0	4422.6
70°	12444.1	12401.2	12538.1	13383.7	14045.5	14005.0	11961.3	7900.8	4894.9	3646.6	2187.8
72.5°	11730.5	11936.2	12947.1	14480.5	15288.8	14958.4	11651.9	6066.9	2797.8	1402.9	632.6
73°	11139.2	11402.4	12763.2	14521.8	15386.9	15024.8	11391.9	5568.8	2384.7	1107.3	479.5
75°	7749.3	8072.5	10566.5	13524.7	14928.4	14315.2	9495.7	3408.5	1104.8	490.9	193.6
77.5°	3762.5	4001.4	5818.3	9771.9	11609.8	11184.5	5911.4	1270.1	499.0	307.0	89.1
80°	1404.5	1561.7	2525.6	4973.4	6709.3	6885.0	2600.1	480.3	332.1	247.1	45.4
82.5°	367.7	409.9	931.5	2217.8	3438.5	3598.9	819.7	242.2	243.0	203.3	27.5
85°	117.5	134.5	290.8	995.5	1620.0	1422.4	213.8	117.5	176.6	151.5	15.4
87.5°	14.6	18.6	92.3	234.1	357.2	198.5	33.2	34.8	75.3	84.2	8.9
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°	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0
2.5°	2854.5	2850.4	2851.2	2830.2	2816.4	2788.8	2760.5	2747.5	2733.8	2728.1	2733.8
5°	2869.0	2861.7	2840.7	2775.9	2707.0	2617.9	2534.5	2471.3	2391.9	2370.1	2392.8
7.5°	2891.7	2877.1	2815.6	2683.5	2530.5	2360.4	2169.2	2029.9	1915.7	1842.0	1868.7
10°	2924.9	2897.4	2773.5	2549.1	2275.3	1974.0	1702.6	1491.2	1341.4	1279.8	1277.4
12.5°	2980.8	2929.0	2721.6	2374.1	1963.5	1561.7	1206.1	976.9	855.4	776.8	775.2
15°	3042.4	2966.2	2656.0	2164.3	1600.6	1118.6	776.8	602.6	524.1	499.0	495.7
17.5°	3117.7	3009.2	2571.0	1905.9	1220.7	741.2	507.1	456.8	453.6	451.2	451.2
20°	3212.5	3060.2	2461.6	1610.3	865.9	494.9	430.9	434.2	435.8	432.5	433.4
22.5°	3322.6	3112.0	2331.2	1292.8	585.6	413.9	412.3	416.3	418.0	416.3	417.2
25°	3450.6	3172.0	2172.4	959.9	422.8	392.9	396.9	402.6	406.6	406.6	406.6
27.5°	3609.4	3244.9	1981.3	669.9	365.3	371.0	382.3	392.9	398.5	400.1	400.1
30°	3815.9	3335.6	1752.0	459.3	332.1	341.8	362.9	383.1	393.7	395.3	396.1
32.5°	4076.8	3437.7	1486.4	339.4	303.8	311.0	333.7	367.7	388.0	391.2	391.2
35°	4375.6	3555.9	1200.4	295.7	283.5	285.9	303.8	342.6	378.3	387.2	388.0
37.5°	4702.9	3672.6	912.9	276.2	266.5	266.5	279.5	312.7	354.8	382.3	385.6
40°	5008.3	3743.0	639.9	260.8	251.1	251.1	262.4	286.7	326.4	367.7	376.7
42.5°	5290.1	3767.3	445.5	246.2	236.5	239.0	248.7	268.1	298.1	339.4	347.5
45°	5580.1	3763.3	324.8	229.2	221.9	229.2	236.5	251.1	273.0	296.5	298.1
47.5°	5798.8	3729.3	257.6	213.0	208.2	217.9	224.4	234.1	246.2	244.6	244.6
50°	6003.8	3646.6	207.4	191.2	194.4	205.7	209.0	212.2	213.0	197.6	196.0
52.5°	6159.3	3517.9	166.1	167.7	180.6	192.0	188.7	183.9	175.8	157.1	153.9
55°	6211.1	3270.0	130.4	138.5	160.4	175.0	162.8	152.3	136.9	121.5	118.3
57.5°	6117.2	2950.0	106.1	107.7	135.3	147.4	133.7	121.5	104.5	91.5	89.1
60°	5917.9	2594.4	87.5	81.0	104.5	115.0	106.1	94.0	78.6	68.9	68.0
62.5°	5522.6	2215.4	72.1	63.2	79.4	88.3	82.6	73.7	60.8	54.3	53.5
65°	4691.5	1772.3	58.3	51.0	61.6	68.9	64.0	57.5	47.8	42.9	42.1
67.5°	3274.9	1198.0	47.8	42.1	48.6	54.3	50.2	47.0	38.1	37.3	38.1
70°	1579.5	577.5	39.7	34.0	38.1	42.1	40.5	38.1	36.5	42.1	48.6
72.5°	452.8	193.6	31.6	28.4	30.8	33.2	34.8	34.0	39.7	51.0	59.1
73°	348.3	156.3	30.0	26.7	29.2	32.4	34.0	33.2	40.5	51.8	59.1
75°	149.0	75.3	22.7	21.9	24.3	28.4	30.0	30.0	40.5	52.7	56.7
77.5°	67.2	40.5	14.6	17.0	21.1	22.7	25.1	25.1	32.4	40.5	40.5
80°	38.1	21.9	11.3	13.0	15.4	15.4	15.4	13.8	14.6	16.2	17.8
82.5°	24.3	14.6	8.9	10.5	9.7	8.1	6.5	6.5	5.7	6.5	8.1
85°	13.8	8.1	8.1	6.5	4.1	3.2	4.1	3.2	0.8	0.0	0.8
87.5°	8.1	4.9	2.4	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)