

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: P322488

Luminaire Tested: **GAN-SA4C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322488
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-SA4C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 16945 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

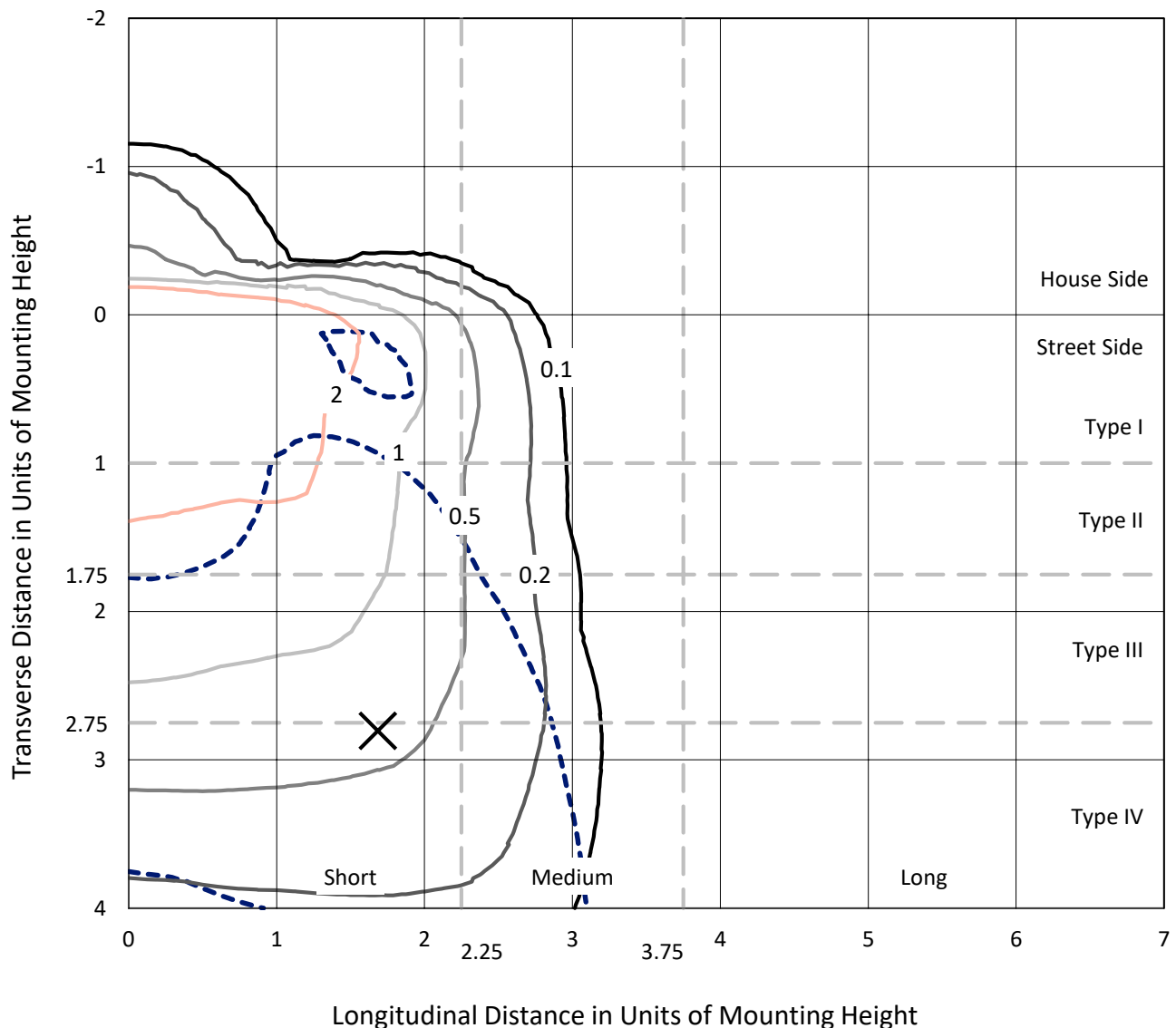
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

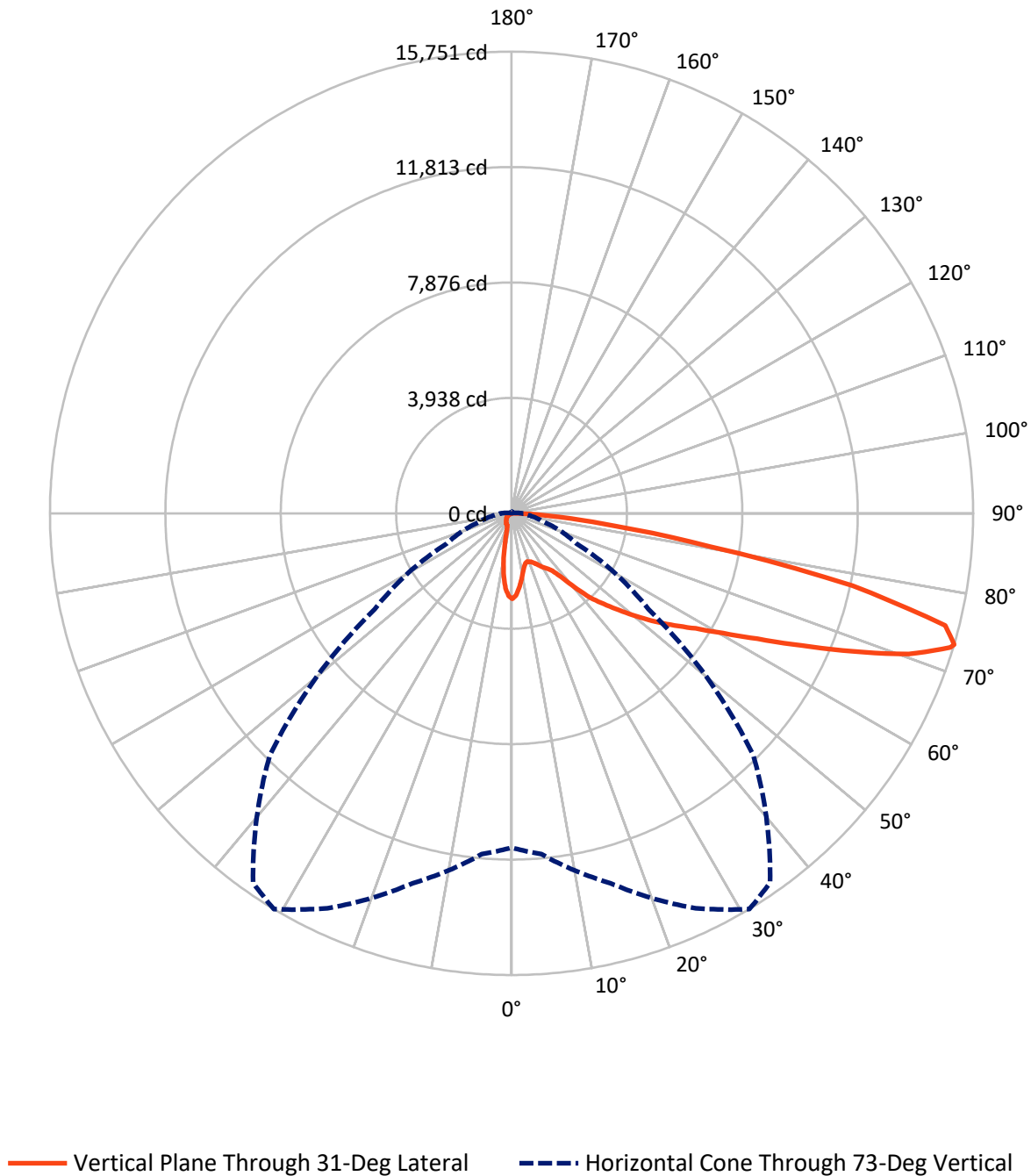
× Max cd
- - - 1/2 Max cd



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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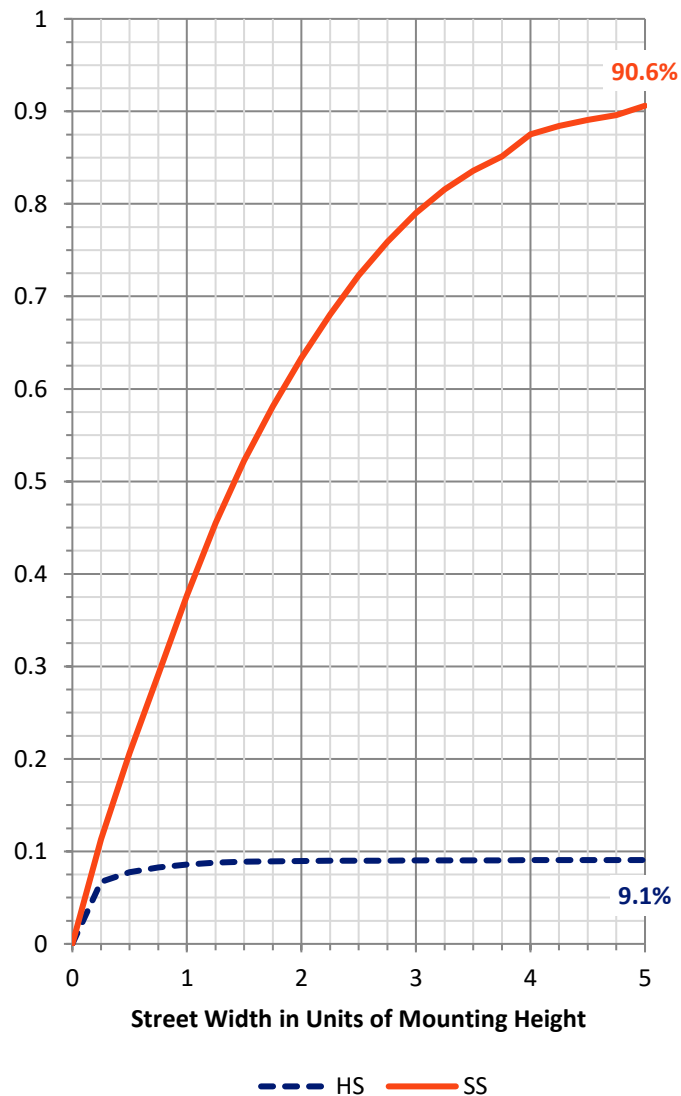
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.6	0.0	1544.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15400.4	0.0	15400.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	16945.0	0.0	16945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.4
10°-20°	524.9	3.1
20°-30°	786.4	4.6
30°-40°	1251.2	7.4
40°-50°	2234.2	13.2
50°-60°	3466.9	20.5
60°-70°	4608.7	27.2
70°-80°	3466.7	20.5
80°-90°	364.3	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°	16945.0	100.0
0°-180°	16945.0	100.0

Coefficient of Utilization



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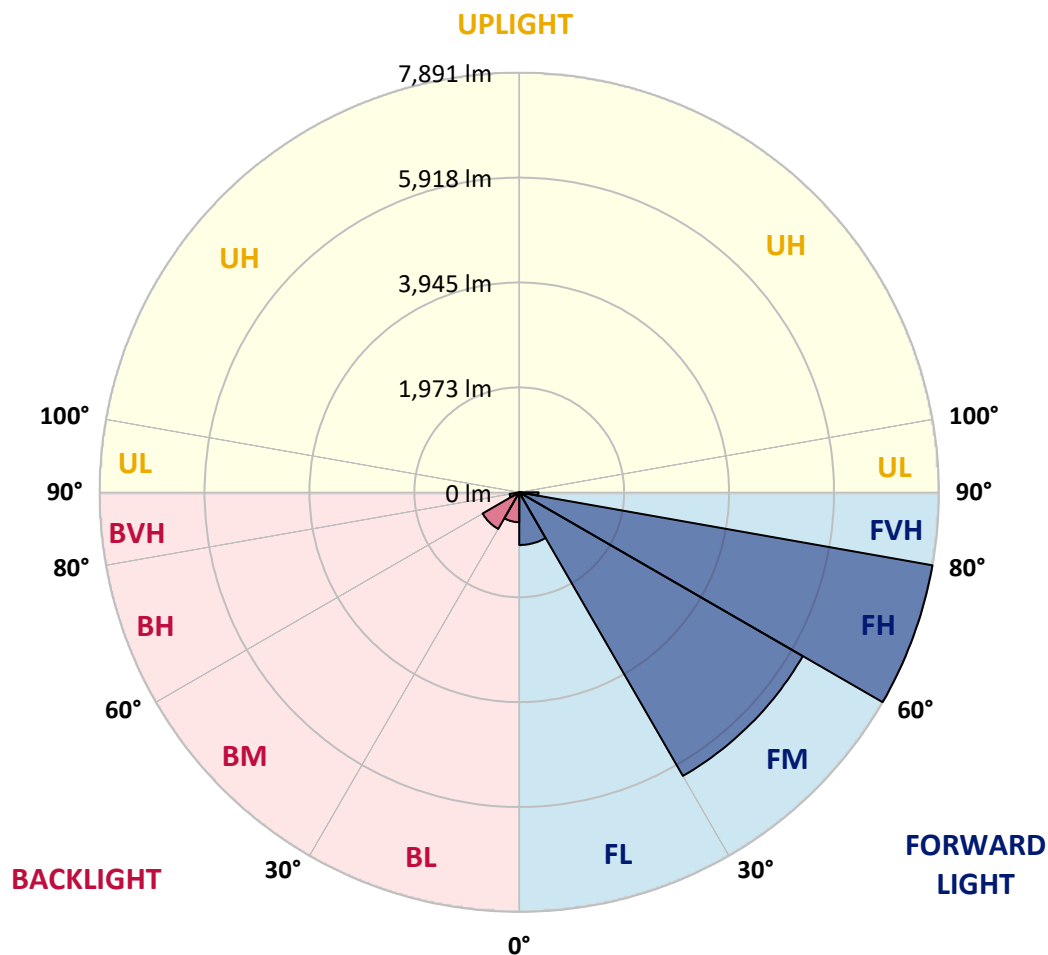
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.3	5.9			
FM	(30°-60°)	6157.2	36.3			
FH	(60°-80°)	7890.7	46.6			G4/12000
FVH	(80°-90°)	361.2	2.1			G3/500
BL	(0°-30°)	561.7	3.3	B2/1000		
BM	(30°-60°)	795.1	4.7	B1/1000		
BH	(60°-80°)	184.8	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4
2.5°	2762.9	2774.5	2786.9	2789.4	2810.1	2810.9	2840.8	2863.2	2885.6	2907.1	2914.6
5°	2479.3	2498.3	2520.7	2543.1	2587.1	2604.5	2677.4	2752.1	2823.4	2891.4	2924.5
7.5°	2176.6	2198.2	2229.7	2285.2	2334.2	2368.2	2483.4	2616.1	2748.8	2874.0	2946.1
10°	1900.5	1920.4	1953.6	2012.4	2087.9	2134.3	2289.4	2473.5	2668.3	2858.2	2978.4
12.5°	1724.7	1735.5	1753.7	1816.7	1884.7	1937.0	2119.4	2347.4	2602.0	2857.4	3030.7
15°	1692.4	1695.7	1680.8	1709.0	1762.0	1812.6	1997.5	2245.4	2551.4	2870.6	3098.7
17.5°	1743.8	1742.1	1692.4	1689.1	1731.3	1772.8	1937.8	2175.0	2515.8	2901.3	3186.6
20°	1821.7	1815.9	1729.7	1713.9	1758.7	1797.7	1933.7	2148.4	2502.5	2952.7	3293.5
22.5°	1925.4	1915.4	1780.3	1763.7	1811.8	1852.4	1985.1	2174.1	2514.1	3021.6	3417.9
25°	2053.9	2039.0	1867.3	1849.1	1898.0	1938.6	2077.1	2247.9	2548.9	3105.3	3575.5
27.5°	2199.0	2177.4	2006.6	1959.4	2014.9	2057.2	2199.8	2360.7	2603.6	3194.0	3768.7
30°	2335.8	2307.6	2153.4	2075.5	2143.4	2190.7	2332.5	2495.0	2691.5	3330.8	4033.2
32.5°	2473.5	2442.0	2284.4	2191.5	2252.9	2304.3	2469.3	2679.9	2856.5	3539.8	4384.7
35°	2790.2	2757.0	2563.8	2410.4	2409.6	2438.6	2660.9	2932.8	3074.6	3830.8	4804.3
37.5°	3323.4	3304.3	3120.2	2829.2	2751.2	2718.9	2922.1	3234.7	3388.1	4231.3	5277.8
40°	3907.1	3890.5	3684.1	3420.4	3301.8	3222.2	3296.8	3655.1	3830.8	4720.6	5761.2
42.5°	4566.3	4487.6	4119.4	4040.6	3934.5	3874.0	3806.8	4173.3	4374.8	5252.9	6240.5
45°	5165.0	5032.3	4554.7	4435.3	4411.3	4426.2	4463.5	4869.8	4986.7	5885.6	6718.1
47.5°	5521.6	5417.1	5050.6	4936.2	4929.5	5028.2	5310.1	5656.7	5596.2	6437.0	7138.5
50°	5860.7	5766.2	5461.9	5490.0	5520.7	5655.1	6271.1	6466.0	6152.6	6937.0	7524.0
52.5°	6135.2	5990.9	5831.7	5990.0	6141.0	6357.4	7262.9	7192.4	6547.3	7335.0	7854.1
55°	6293.5	6228.0	6305.1	6464.3	6747.9	7099.5	8199.0	7796.8	6835.8	7698.2	8073.8
57.5°	6874.0	6745.4	6898.8	7036.5	7406.3	7898.0	9000.8	8247.1	7043.9	7922.9	8124.4
60°	7576.3	7472.6	7563.0	7791.9	8291.0	8869.0	9750.4	8614.4	7152.6	8067.2	7993.4
62.5°	8694.0	8557.2	8500.8	8757.0	9418.7	10049.7	10319.2	8869.0	7128.5	8003.3	7543.9
65°	10191.5	10049.7	9797.7	10029.8	10871.5	11316.7	10955.2	8922.9	6962.7	7486.7	6408.0
67.5°	11725.5	11622.7	11407.1	11798.5	12558.0	12701.5	11627.7	8791.9	6428.7	6070.5	4527.4
70°	12738.8	12694.9	12835.0	13700.7	14378.1	14336.6	12244.6	8087.9	5010.8	3733.0	2239.6
72.5°	12008.3	12218.9	13253.7	14823.4	15650.9	15312.6	11927.9	6210.6	2864.0	1436.2	647.6
73°	11403.0	11672.5	13065.5	14865.7	15751.2	15380.6	11661.7	5700.7	2441.1	1133.5	490.9
75°	7932.8	8263.7	10816.7	13844.9	15281.9	14654.2	9720.6	3489.2	1131.0	502.5	198.2
77.5°	3851.6	4096.2	5956.1	10003.3	11884.7	11449.4	6051.4	1300.2	510.8	314.3	91.2
80°	1437.8	1598.7	2585.4	5091.2	6868.2	7048.1	2661.7	491.7	340.0	252.9	46.4
82.5°	376.5	419.6	953.6	2270.3	3519.9	3684.1	839.1	247.9	248.8	208.1	28.2
85°	120.2	137.6	297.7	1019.1	1658.4	1456.1	218.9	120.2	180.8	155.1	15.8
87.5°	14.9	19.1	94.5	239.6	365.7	203.2	34.0	35.7	77.1	86.2	9.1
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°	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4
2.5°	2922.1	2917.9	2918.7	2897.2	2883.1	2854.9	2825.9	2812.6	2798.5	2792.7	2798.5
5°	2937.0	2929.5	2908.0	2841.6	2771.1	2679.9	2594.5	2529.8	2448.6	2426.2	2449.4
7.5°	2960.2	2945.3	2882.3	2747.1	2590.4	2416.3	2220.6	2077.9	1961.0	1885.6	1912.9
10°	2994.2	2966.0	2839.1	2609.5	2329.2	2020.7	1743.0	1526.5	1373.1	1310.1	1307.6
12.5°	3051.4	2998.3	2786.1	2430.3	2009.9	1598.7	1234.7	1000.0	875.6	795.2	793.5
15°	3114.4	3036.5	2718.9	2215.6	1638.5	1145.1	795.2	616.9	536.5	510.8	507.5
17.5°	3191.5	3080.4	2631.8	1951.1	1249.6	758.7	519.1	467.7	464.3	461.9	461.9
20°	3288.6	3132.7	2519.9	1648.4	886.4	506.6	441.1	444.4	446.1	442.8	443.6
22.5°	3401.3	3185.7	2386.4	1323.4	599.5	423.7	422.1	426.2	427.9	426.2	427.0
25°	3532.3	3247.1	2223.9	982.6	432.8	402.2	406.3	412.1	416.3	416.3	416.3
27.5°	3694.9	3321.7	2028.2	685.7	374.0	379.8	391.4	402.2	408.0	409.6	409.6
30°	3906.3	3414.6	1793.5	470.1	340.0	349.9	371.5	392.2	403.0	404.6	405.5
32.5°	4173.3	3519.1	1521.6	347.4	310.9	318.4	341.6	376.5	397.2	400.5	400.5
35°	4479.3	3640.1	1228.9	302.7	290.2	292.7	310.9	350.7	387.2	396.4	397.2
37.5°	4814.3	3759.5	934.5	282.8	272.8	272.8	286.1	320.1	363.2	391.4	394.7
40°	5126.9	3831.7	655.1	267.0	257.0	257.0	268.7	293.5	334.2	376.5	385.6
42.5°	5415.4	3856.5	456.1	252.1	242.1	244.6	254.6	274.5	305.1	347.4	355.7
45°	5712.3	3852.4	332.5	234.7	227.2	234.7	242.1	257.0	279.4	303.5	305.1
47.5°	5936.2	3817.6	263.7	218.1	213.1	223.1	229.7	239.6	252.1	250.4	250.4
50°	6145.9	3733.0	212.3	195.7	199.0	210.6	213.9	217.2	218.1	202.3	200.7
52.5°	6305.1	3601.2	170.0	171.6	184.9	196.5	193.2	188.2	179.9	160.9	157.5
55°	6358.2	3347.4	133.5	141.8	164.2	179.1	166.7	155.9	140.1	124.4	121.1
57.5°	6262.0	3019.9	108.6	110.3	138.5	150.9	136.8	124.4	107.0	93.7	91.2
60°	6058.0	2655.9	89.6	82.9	107.0	117.7	108.6	96.2	80.4	70.5	69.7
62.5°	5653.4	2267.8	73.8	64.7	81.3	90.4	84.6	75.5	62.2	55.6	54.7
65°	4802.7	1814.3	59.7	52.2	63.0	70.5	65.5	58.9	48.9	43.9	43.1
67.5°	3352.4	1226.4	48.9	43.1	49.8	55.6	51.4	48.1	39.0	38.1	39.0
70°	1616.9	591.2	40.6	34.8	39.0	43.1	41.5	39.0	37.3	43.1	49.8
72.5°	463.5	198.2	32.3	29.0	31.5	34.0	35.7	34.8	40.6	52.2	60.5
73°	356.6	160.0	30.7	27.4	29.9	33.2	34.8	34.0	41.5	53.1	60.5
75°	152.6	77.1	23.2	22.4	24.9	29.0	30.7	30.7	41.5	53.9	58.0
77.5°	68.8	41.5	14.9	17.4	21.6	23.2	25.7	25.7	33.2	41.5	41.5
80°	39.0	22.4	11.6	13.3	15.8	15.8	15.8	14.1	14.9	16.6	18.2
82.5°	24.9	14.9	9.1	10.8	10.0	8.3	6.6	6.6	5.8	6.6	8.3
85°	14.1	8.3	8.3	6.6	4.1	3.3	4.1	3.3	0.8	0.0	0.8
87.5°	8.3	5.0	2.5	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)