

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: P322031

Luminaire Tested: **GAN-SA7A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17239 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 226
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

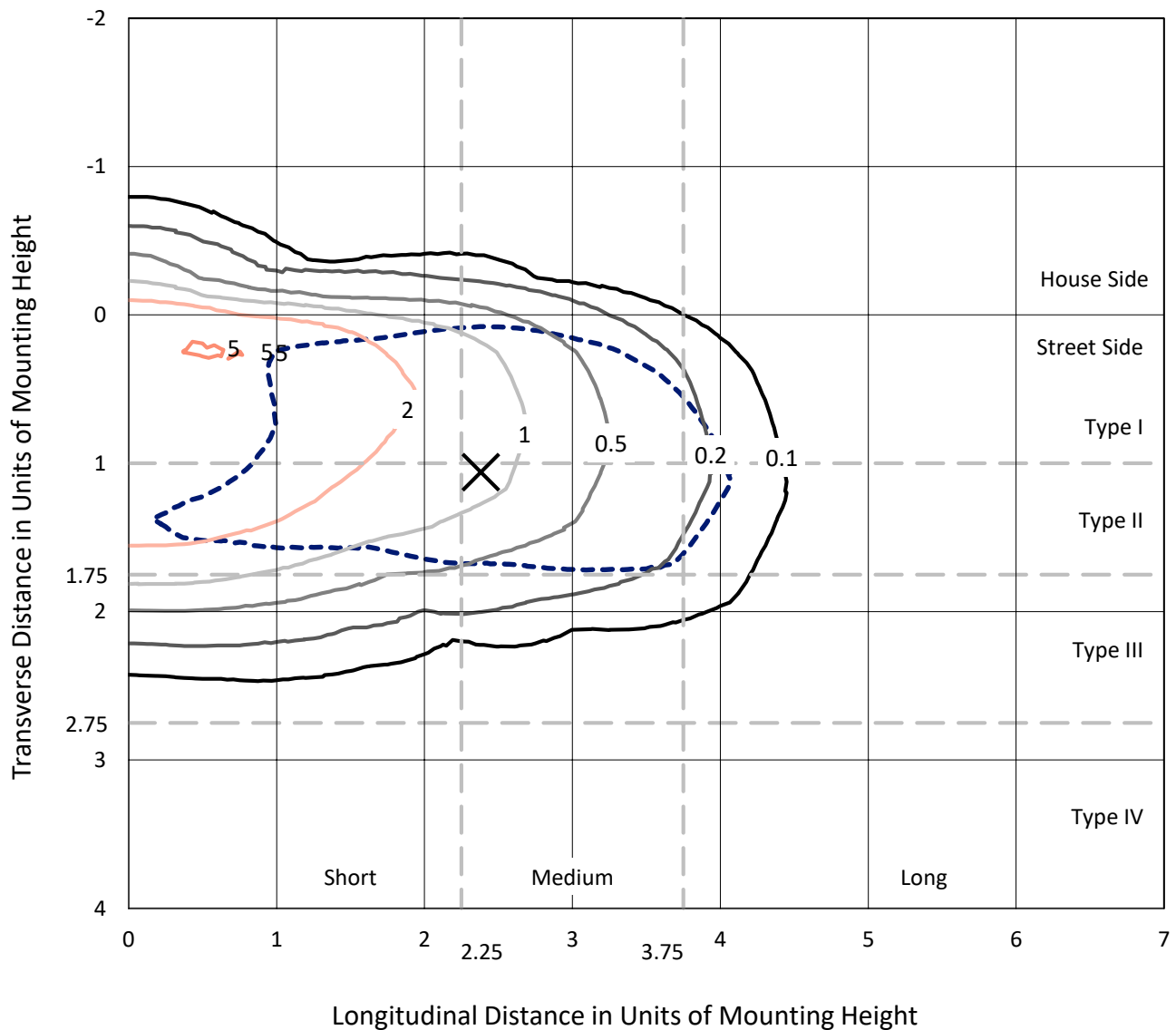


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Iso-Footcandle Lines of Horizontal Illumination

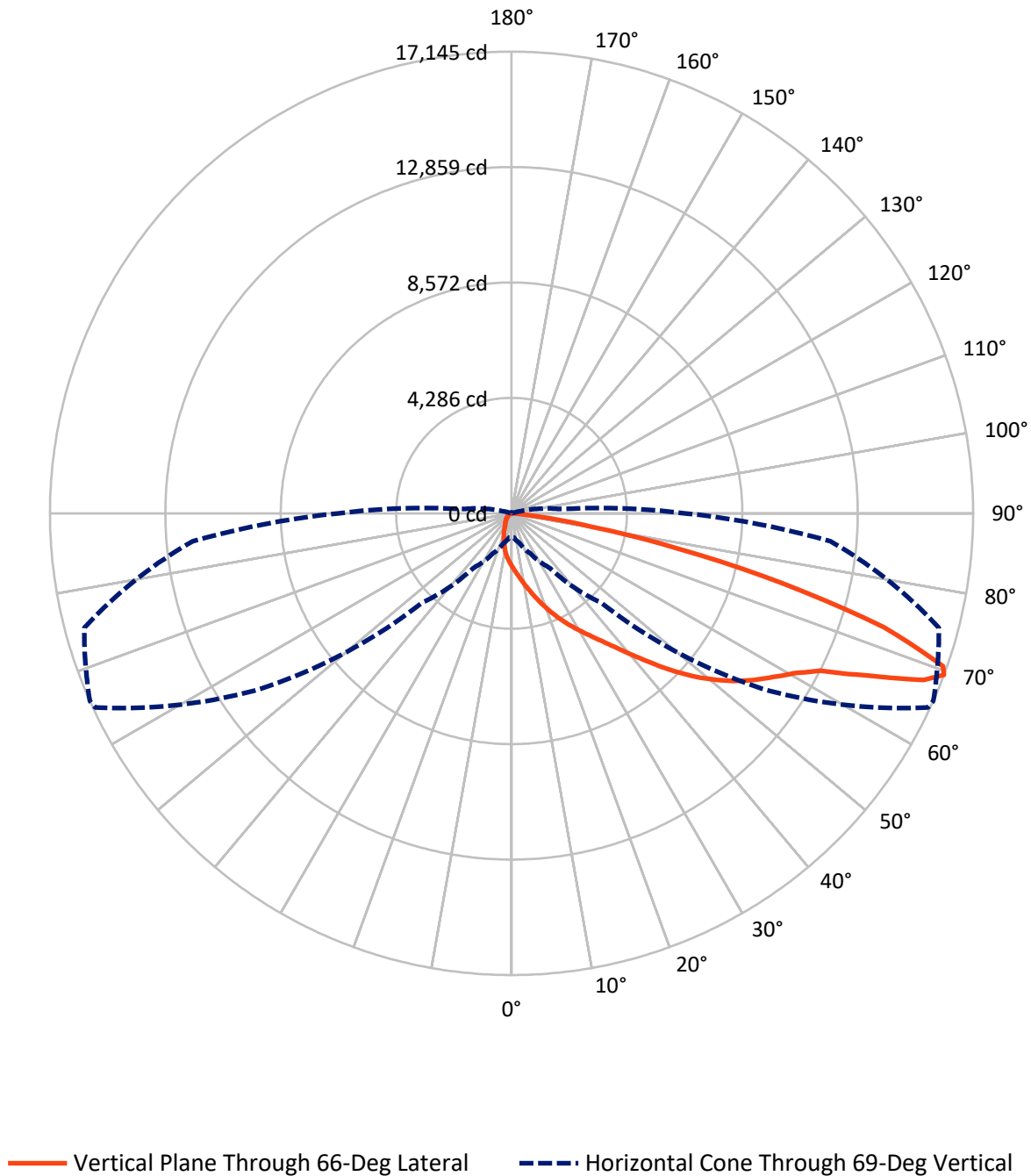
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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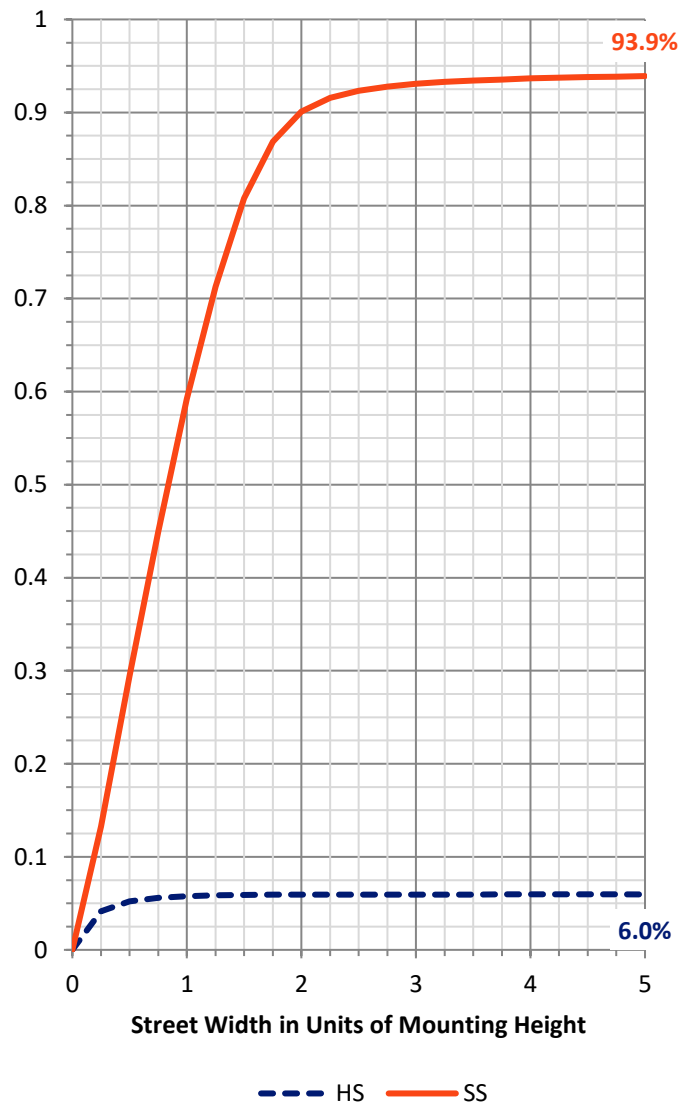
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.1	0.0	1034.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	16204.9	0.0	16204.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	17239.0	0.0	17239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.1
10°-20°	564.4	3.3
20°-30°	982.8	5.7
30°-40°	1724.4	10.0
40°-50°	2886.3	16.7
50°-60°	4242.6	24.6
60°-70°	4356.1	25.3
70°-80°	2150.5	12.5
80°-90°	142.2	0.8
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°	17239.0	100.0
0°-180°	17239.0	100.0

Coefficient of Utilization



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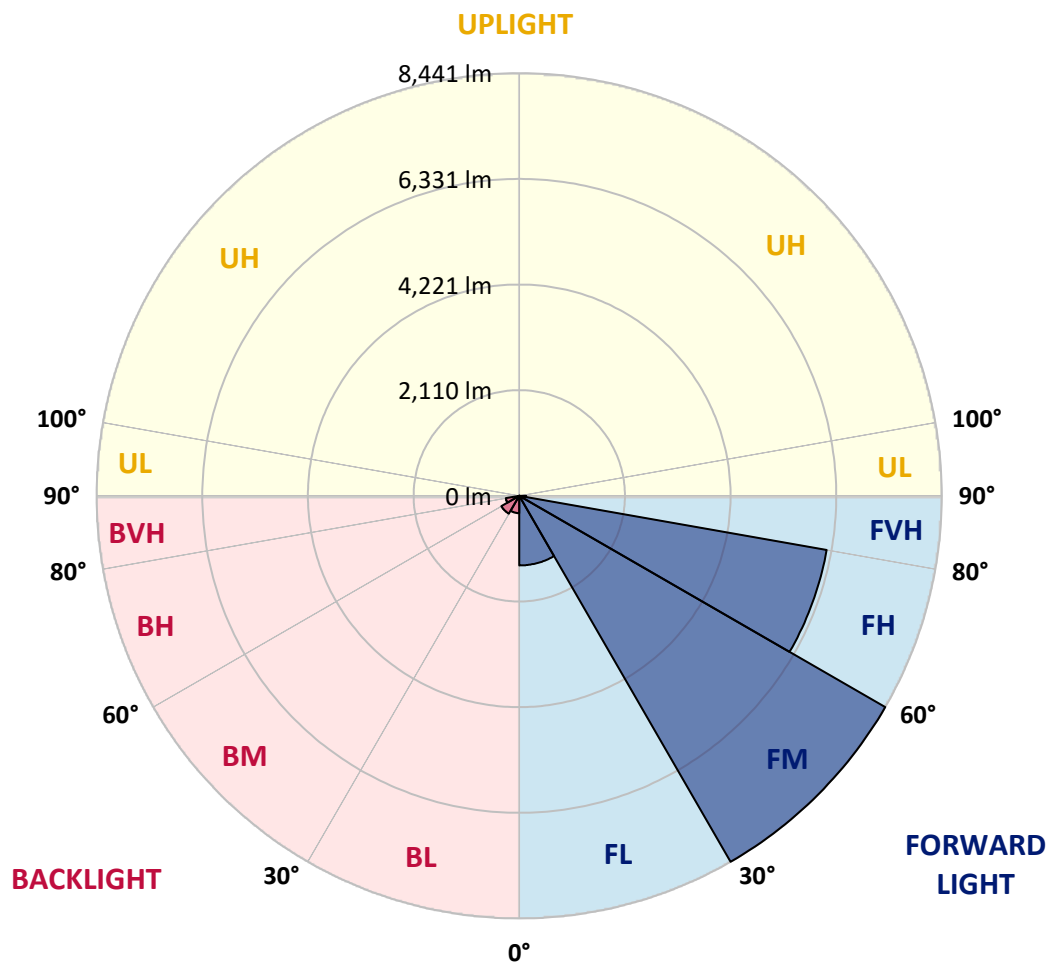
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.0	8.1			
FM	(30°-60°)	8441.0	49.0			
FH	(60°-80°)	6234.1	36.2			G3/7500
FVH	(80°-90°)	138.8	0.8			G2/225
BL	(0°-30°)	345.8	2.0	B1/500		
BM	(30°-60°)	412.3	2.4	B1/1000		
BH	(60°-80°)	272.5	1.6	B1/500		G1/500
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9
2.5°	2309.0	2299.2	2295.1	2277.1	2246.0	2222.2	2176.4	2123.2	2113.3	2061.7	1998.7
5°	2608.7	2600.5	2594.8	2569.4	2537.5	2477.7	2394.2	2295.1	2276.3	2178.0	2051.9
7.5°	2817.5	2832.2	2832.2	2815.9	2775.7	2730.7	2628.4	2493.3	2469.5	2318.9	2123.2
10°	2939.5	2957.5	2971.4	2985.4	2979.6	2961.6	2865.0	2712.7	2684.0	2484.3	2205.9
12.5°	2951.0	2969.0	3008.3	3066.4	3122.9	3163.9	3103.3	2955.9	2923.1	2675.9	2304.1
15°	2887.1	2905.9	2966.5	3079.5	3216.3	3335.8	3355.5	3225.3	3191.7	2904.3	2426.9
17.5°	2775.7	2788.0	2874.8	3031.2	3245.7	3465.2	3583.9	3514.3	3483.2	3165.5	2563.7
20°	2693.0	2702.1	2778.2	2946.1	3227.7	3546.2	3800.1	3821.4	3788.6	3445.5	2711.9
22.5°	2834.7	2851.1	2853.5	2933.0	3178.6	3586.4	3990.0	4123.5	4098.9	3742.8	2857.6
25°	3222.0	3240.8	3178.6	3129.5	3220.4	3604.4	4153.0	4433.0	4413.4	4062.9	3004.2
27.5°	3733.7	3753.4	3673.2	3526.6	3439.0	3672.3	4297.9	4747.4	4746.6	4401.9	3162.2
30°	4236.5	4256.1	4174.3	4027.7	3826.3	3864.8	4423.2	5076.6	5081.5	4751.5	3330.1
32.5°	4763.8	4788.4	4704.0	4515.7	4305.3	4197.2	4599.2	5407.4	5435.2	5156.8	3519.2
35°	5363.2	5366.4	5247.7	5050.4	4808.0	4641.8	4881.7	5778.3	5844.6	5658.8	3759.1
37.5°	5951.1	5974.8	5877.4	5566.2	5343.5	5155.2	5301.8	6241.7	6335.9	6272.0	4072.7
40°	6386.7	6436.6	6422.7	6087.0	5875.7	5741.5	5823.3	6792.8	6912.3	6986.0	4468.2
42.5°	6660.1	6697.8	6761.7	6559.4	6367.8	6389.9	6439.1	7434.7	7582.1	7799.9	4922.6
45°	6973.8	6991.8	7045.0	6955.7	6826.4	7049.1	7092.5	8157.7	8312.5	8675.2	5427.0
47.5°	7357.0	7399.5	7414.3	7332.4	7273.4	7632.1	7722.1	8815.2	9032.2	9612.8	5960.9
50°	7845.0	7856.4	7881.8	7828.6	7769.6	8133.2	8287.1	9505.5	9702.8	10553.6	6487.4
52.5°	8322.3	8363.3	8451.7	8418.1	8394.4	8559.8	8790.7	10127.8	10348.0	11338.0	7013.1
55°	8459.9	8495.1	8800.5	9009.3	9202.5	9085.4	9272.1	10685.4	10923.7	12038.9	7519.1
57.5°	7910.5	7981.7	8510.6	9054.3	9855.9	9902.6	9933.7	11257.7	11471.4	12576.0	8045.6
60°	6521.8	6535.7	7403.6	8336.2	9747.9	10615.8	10899.9	11872.7	12052.0	13076.3	8676.0
62.5°	4148.1	4289.7	5242.0	6558.6	8604.8	10512.6	12068.3	12802.8	12868.3	13676.5	9580.0
65°	1975.8	2067.5	2753.6	4052.3	6232.7	9191.9	12874.9	14485.5	14514.9	14866.2	10787.7
67.5°	1093.9	1138.1	1464.8	2181.3	3643.7	6500.5	12549.0	16478.4	16506.3	16081.3	11847.3
69°	855.6	893.3	1150.4	1644.2	2470.3	4672.1	11356.0	17062.2	17144.9	16429.3	11884.9
70°	726.3	763.1	990.8	1388.7	1986.4	3610.1	10108.1	16917.3	17004.9	16396.5	11604.1
72.5°	444.6	465.9	660.0	977.7	1331.4	1816.1	6233.6	14307.0	14455.2	15040.6	9973.0
75°	299.7	311.1	412.7	674.7	952.3	935.1	3238.4	10084.4	10405.4	11699.9	7366.0
77.5°	214.5	225.2	276.8	436.4	667.3	617.4	1466.5	6267.1	6335.9	7017.1	4017.1
80°	122.0	131.8	195.7	259.6	452.8	411.9	583.0	2993.5	3027.9	3009.1	1341.2
82.5°	63.9	72.1	107.3	171.1	290.7	269.4	242.4	1002.2	1007.1	837.6	294.0
85°	12.3	14.7	53.2	117.1	149.8	117.1	99.1	235.0	239.9	212.1	72.9
87.5°	0.0	0.8	21.3	26.2	29.5	30.3	31.9	45.9	49.1	66.3	19.7
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°	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9
2.5°	1970.9	1941.4	1884.9	1819.4	1768.6	1718.7	1679.4	1638.4	1623.7	1616.3	1615.5
5°	1990.5	1928.3	1808.7	1685.9	1585.2	1490.2	1422.3	1357.6	1327.3	1313.4	1307.6
7.5°	2023.3	1923.4	1731.0	1543.4	1398.5	1279.8	1185.6	1115.2	1080.0	1065.3	1059.5
10°	2061.7	1916.8	1640.1	1392.8	1207.7	1084.9	991.6	922.0	883.5	867.1	858.9
12.5°	2106.8	1905.4	1535.3	1240.5	1044.8	922.0	809.0	723.0	678.8	660.0	650.9
15°	2162.5	1893.9	1425.5	1097.2	901.5	751.7	628.0	569.9	560.9	557.6	558.4
17.5°	2217.3	1875.9	1306.0	955.5	750.8	587.1	524.0	520.8	522.4	522.4	522.4
20°	2266.4	1834.9	1175.8	834.4	607.6	495.4	482.3	476.5	472.4	469.2	465.1
22.5°	2304.9	1780.1	1050.5	714.0	496.2	453.6	433.1	415.1	400.4	390.6	385.7
25°	2331.1	1707.2	935.9	598.5	446.2	412.7	375.8	345.5	322.6	308.7	303.0
27.5°	2350.8	1628.6	833.5	501.1	411.9	365.2	316.9	280.8	257.1	244.8	239.9
30°	2364.7	1539.4	743.5	440.5	373.4	315.2	263.7	228.4	211.3	204.7	201.4
32.5°	2377.8	1440.3	658.3	411.9	337.3	269.4	221.1	194.1	183.4	175.2	172.8
35°	2410.6	1348.6	577.3	381.6	300.5	230.1	190.0	170.3	159.7	154.8	153.1
37.5°	2488.3	1280.6	499.5	350.4	263.7	199.0	166.2	152.3	142.5	137.6	135.9
40°	2613.6	1246.2	434.0	316.9	227.6	175.2	150.7	137.6	126.9	119.5	117.9
42.5°	2797.9	1251.1	388.1	283.3	199.0	156.4	135.9	120.4	108.9	102.4	100.7
45°	3021.4	1287.2	356.2	250.6	175.2	141.7	119.5	103.2	92.5	86.8	85.2
47.5°	3263.8	1345.3	330.0	221.1	156.4	127.7	103.2	86.0	77.0	72.1	71.2
50°	3519.2	1401.8	303.0	192.4	140.0	113.8	86.8	71.2	63.9	59.8	58.1
52.5°	3778.0	1467.3	278.4	166.2	126.1	97.4	72.1	58.1	52.4	49.1	47.5
55°	4056.4	1516.4	254.6	145.7	112.2	82.7	59.8	48.3	43.4	39.3	38.5
57.5°	4383.9	1592.6	230.1	126.1	95.8	68.8	49.1	38.5	34.4	30.3	29.5
60°	4826.0	1681.8	203.9	111.4	78.6	56.5	40.1	31.1	26.2	22.9	22.1
62.5°	5409.0	1780.9	171.1	97.4	63.9	45.9	31.9	24.6	18.8	14.7	14.7
65°	6148.4	1942.2	140.0	81.9	52.4	37.7	24.6	18.0	10.6	6.6	6.6
67.5°	6579.9	1970.0	113.0	67.1	42.6	31.9	20.5	12.3	3.3	0.8	0.0
69°	6441.5	1808.7	95.8	57.3	36.8	30.3	18.8	9.0	1.6	0.0	0.0
70°	6181.1	1654.0	84.3	50.8	33.6	28.7	18.0	6.6	1.6	0.0	0.0
72.5°	5107.7	1177.4	63.9	37.7	24.6	25.4	16.4	4.1	1.6	0.0	0.0
75°	3720.6	715.6	45.9	26.2	15.6	18.8	11.5	1.6	0.8	0.0	0.0
77.5°	2069.9	337.3	28.7	14.7	9.8	11.5	5.7	0.0	0.0	0.0	0.0
80°	672.2	91.7	13.1	8.2	5.7	6.6	2.5	0.0	0.0	0.0	0.0
82.5°	124.5	26.2	7.4	4.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	27.0	10.6	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.3	0.8	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)