

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: P319941

Luminaire Tested: **GAN-SA7D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43611 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

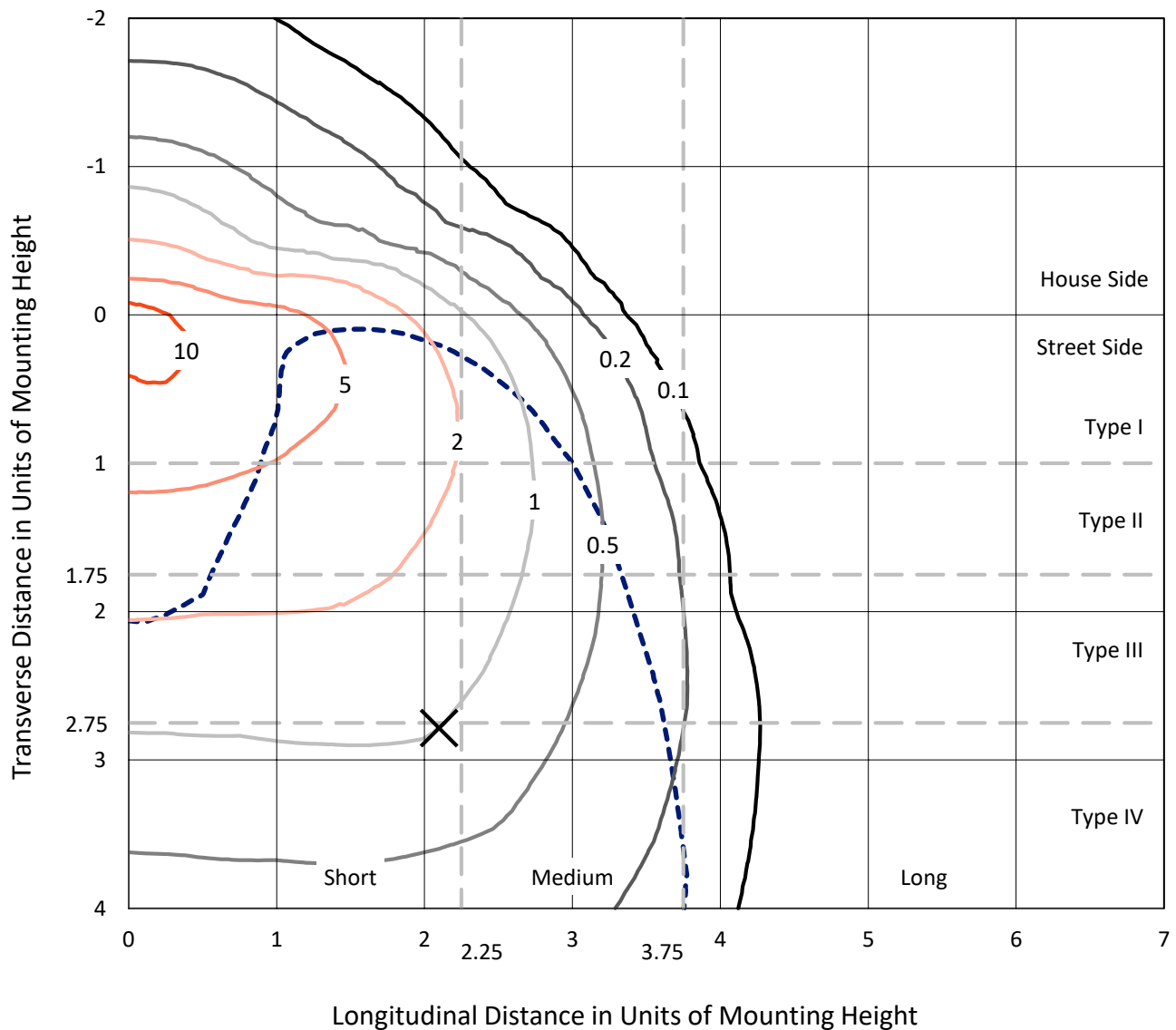
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

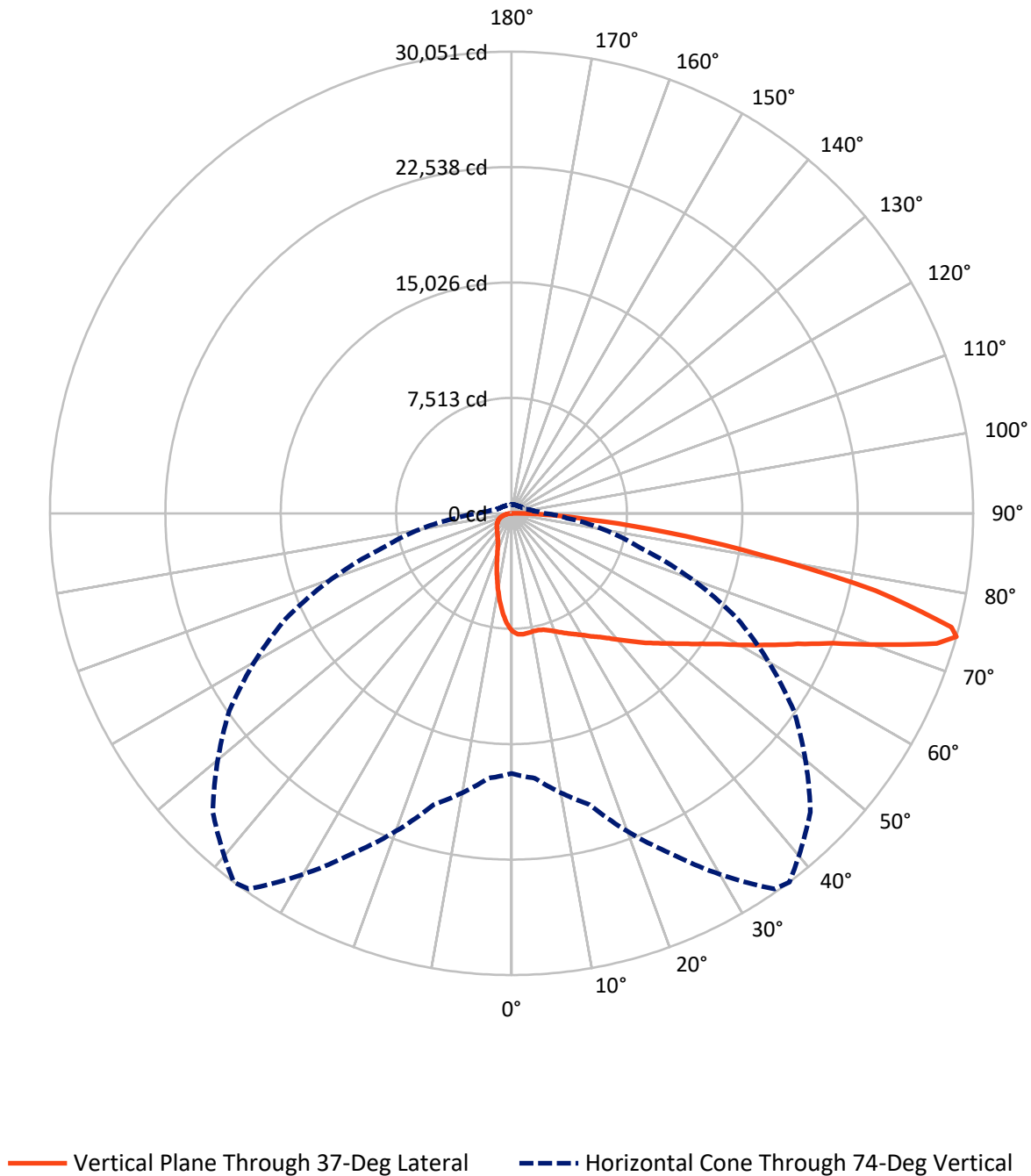
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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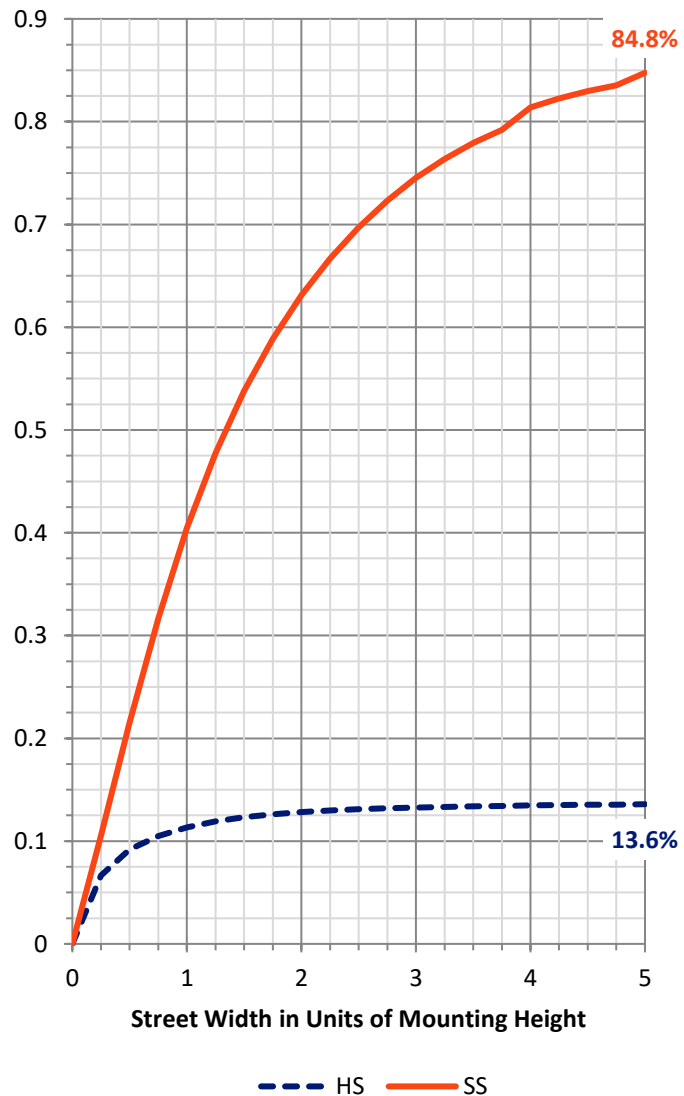
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6000.6	0.0	6000.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	37610.4	0.0	37610.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	43611.0	0.0	43611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.7	1.6
10°-20°	1734.5	4.0
20°-30°	2672.5	6.1
30°-40°	3886.2	8.9
40°-50°	5719.8	13.1
50°-60°	8032.5	18.4
60°-70°	10166.7	23.3
70°-80°	8952.1	20.5
80°-90°	1770.0	4.1
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°	43611.0	100.0
0°-180°	43611.0	100.0

Coefficient of Utilization



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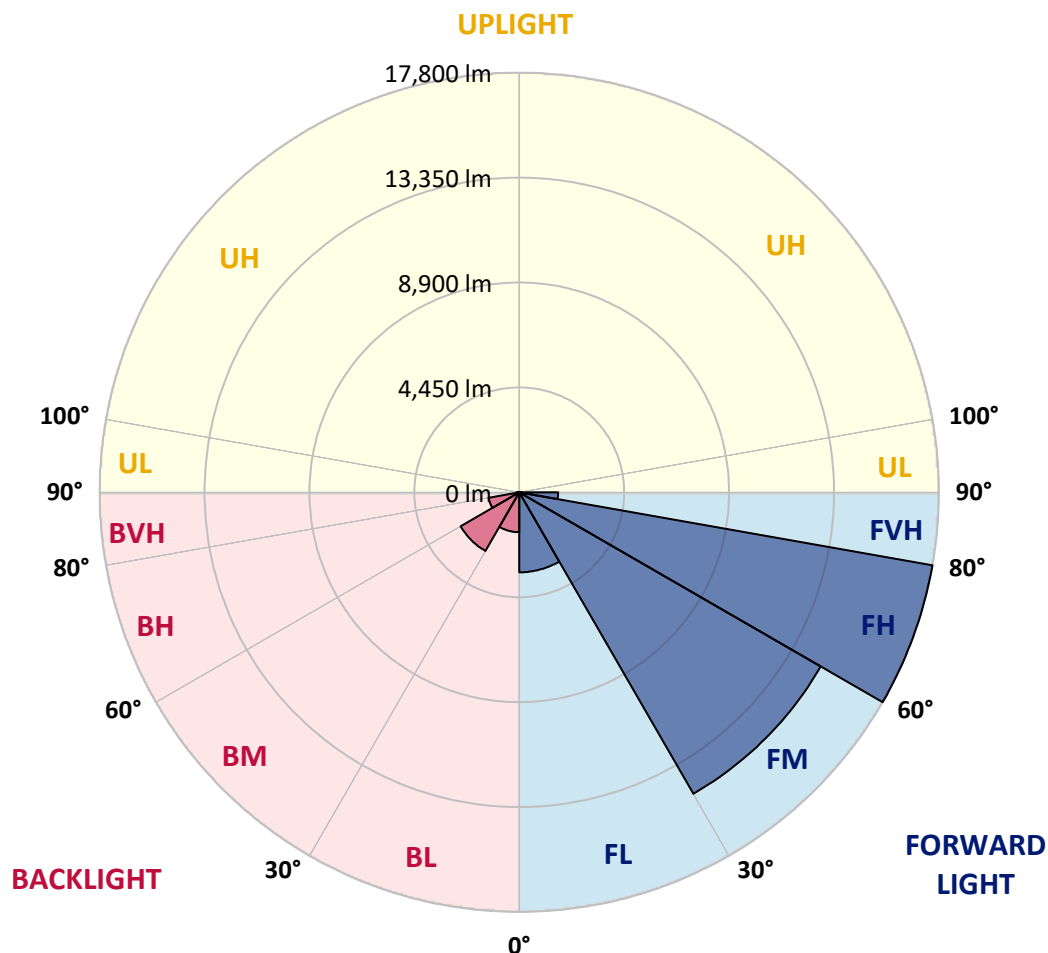
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3393.4	7.8			
FM	(30°-60°)	14767.0	33.9			
FH	(60°-80°)	17799.8	40.8			G5
FVH	(80°-90°)	1650.2	3.8			G5
BL	(0°-30°)	1690.2	3.9	B3/2500		
BM	(30°-60°)	2871.5	6.6	B3/5000		
BH	(60°-80°)	1319.0	3.0	B3/2500		G3/2500
BVH	(80°-90°)	119.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1
2.5°	7946.8	7948.3	7946.8	7934.5	7905.3	7880.7	7860.8	7831.6	7767.0	7717.9	7644.1
5°	8022.1	8012.8	8006.7	7983.6	7937.6	7909.9	7871.5	7816.2	7710.2	7611.9	7492.1
7.5°	7986.7	7976.0	7962.1	7934.5	7882.3	7859.2	7805.4	7733.2	7605.7	7476.7	7304.6
10°	7877.7	7874.6	7868.4	7862.3	7817.7	7799.3	7750.1	7673.3	7547.4	7390.7	7189.4
12.5°	7756.3	7764.0	7788.6	7820.8	7800.8	7791.6	7760.9	7708.7	7579.6	7410.6	7167.9
15°	7679.5	7701.0	7767.0	7851.5	7868.4	7865.4	7857.7	7823.9	7687.2	7499.7	7217.1
17.5°	7653.4	7688.7	7814.7	7954.5	8003.6	8014.4	8017.4	7959.1	7807.0	7608.8	7267.8
20°	7701.0	7745.5	7929.9	8121.9	8200.3	8206.4	8192.6	8091.2	7920.7	7702.5	7295.4
22.5°	7845.4	7885.3	8115.8	8332.4	8421.5	8430.7	8389.2	8235.6	8040.5	7813.1	7333.8
25°	8123.4	8172.6	8403.0	8619.6	8665.7	8667.3	8607.3	8416.9	8197.2	7968.3	7416.8
27.5°	8486.0	8535.1	8742.5	8954.5	8930.0	8916.1	8834.7	8644.2	8401.5	8181.8	7564.3
30°	8890.0	8943.8	9140.4	9291.0	9232.6	9204.9	9138.9	8893.1	8685.7	8473.7	7790.1
32.5°	9307.9	9357.0	9529.1	9632.0	9558.3	9546.0	9446.1	9221.8	9055.9	8919.2	8155.7
35°	9736.5	9771.8	9940.8	9999.1	9900.8	9897.8	9870.1	9664.3	9559.8	9624.3	8687.2
37.5°	10174.3	10183.5	10327.9	10331.0	10301.8	10314.1	10343.3	10214.2	10243.4	10444.6	9378.5
40°	10564.5	10589.0	10693.5	10725.8	10776.5	10819.5	10965.4	10880.9	11106.8	11463.1	10238.8
42.5°	10853.3	10900.9	11068.3	11151.3	11315.7	11383.3	11589.1	11667.5	12122.2	12656.8	11261.9
45°	11097.5	11171.3	11440.1	11610.6	11888.7	12007.0	12301.9	12564.6	13269.7	13951.8	12338.8
47.5°	11361.8	11455.5	11791.9	12117.6	12495.5	12629.1	13165.3	13558.5	14494.1	15254.5	13354.2
50°	11750.4	11822.6	12151.4	12662.9	13134.5	13306.6	14048.6	14612.4	15738.4	16495.8	14234.5
52.5°	12292.7	12265.0	12543.1	13260.5	13893.4	14105.4	14991.8	15733.8	16999.6	17618.7	14978.0
55°	12838.1	12792.0	12987.1	13885.7	14778.3	15001.0	16030.3	16859.8	18199.4	18629.5	15547.9
57.5°	13444.9	13357.3	13521.7	14590.9	15786.0	16051.8	17193.2	18056.5	19379.2	19446.8	15910.5
60°	14070.1	13951.8	14136.1	15465.0	17065.7	17379.1	18554.3	19224.0	20491.4	20101.2	16027.2
62.5°	14617.0	14534.0	14818.2	16440.4	18508.2	18852.3	19890.8	20465.3	21588.3	20373.1	15606.3
65°	15094.7	15108.6	15600.1	17537.3	20116.6	20483.7	21423.9	21995.4	22451.6	20211.8	14621.6
67.5°	15664.7	15743.0	16581.8	18981.3	22141.3	22543.8	23654.5	23663.7	22934.0	19265.5	12682.9
70°	16495.8	16657.1	17932.1	20984.5	25020.1	25573.2	26430.4	24643.8	22256.5	16700.1	9979.2
72.5°	17233.1	17534.2	19368.5	23276.6	28528.8	28948.2	28054.1	24078.5	19425.3	12515.4	6217.0
74°	16933.6	17306.9	19629.6	24405.7	29850.0	30051.2	27505.7	22428.6	16196.2	8667.3	3613.2
75°	16288.4	16693.9	19248.6	24394.9	29682.5	29570.4	26181.5	20543.6	13338.9	5911.3	2404.2
77.5°	13145.3	13573.9	16219.2	20907.7	24338.1	24232.1	20112.0	13781.3	5842.2	1938.7	1221.3
80°	7642.6	7969.8	10068.3	13277.4	16411.3	16603.3	13226.7	6819.2	2298.2	1089.2	828.0
82.5°	3395.0	3620.8	4863.6	6777.7	9903.9	10151.2	6926.7	3573.2	1419.5	662.1	497.7
85°	2227.5	2394.9	2952.6	3227.6	4716.1	4885.1	3390.4	2782.1	937.1	364.1	365.6
87.5°	1602.3	1763.6	2193.7	1915.6	2164.5	2049.3	1845.0	2574.7	376.4	207.4	122.9
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°	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1
2.5°	7611.9	7587.3	7532.0	7427.5	7369.2	7320.0	7238.6	7191.0	7169.5	7167.9	7177.1
5°	7422.9	7366.1	7223.2	7048.1	6908.3	6780.8	6622.6	6527.3	6459.7	6419.8	6430.5
7.5°	7203.3	7114.2	6889.9	6610.3	6386.0	6138.7	5894.4	5748.5	5634.8	5550.3	5565.7
10°	7052.7	6929.8	6602.6	6200.1	5826.8	5467.3	5130.9	4929.7	4769.9	4647.0	4656.2
12.5°	7002.0	6836.1	6382.9	5845.3	5321.4	4829.8	4390.5	4081.7	3917.3	3777.5	3788.3
15°	7009.7	6786.9	6198.6	5525.7	4866.7	4247.6	3714.5	3353.5	3130.8	3034.0	3035.5
17.5°	7015.8	6730.1	6005.0	5183.2	4416.6	3703.8	3124.6	2759.0	2548.6	2459.5	2461.0
20°	6995.9	6637.9	5765.4	4789.9	3946.5	3204.5	2643.8	2333.5	2173.7	2104.6	2104.6
22.5°	6969.8	6528.9	5495.0	4395.1	3482.6	2771.3	2299.7	2063.1	1970.9	1924.9	1923.3
25°	6982.0	6447.4	5218.5	3989.5	3055.5	2425.7	2070.8	1914.1	1852.7	1823.5	1821.9
27.5°	7048.1	6409.0	4963.5	3585.5	2682.2	2166.0	1917.2	1806.6	1766.6	1748.2	1748.2
30°	7167.9	6409.0	4697.7	3241.4	2371.9	1974.0	1798.9	1723.6	1696.0	1683.7	1683.7
32.5°	7376.8	6444.4	4441.2	2900.4	2124.6	1823.5	1700.6	1649.9	1628.4	1622.2	1622.2
35°	7736.3	6564.2	4190.8	2577.7	1924.9	1700.6	1606.9	1577.7	1562.3	1560.8	1565.4
37.5°	8241.7	6808.5	3955.7	2339.6	1783.5	1600.7	1528.5	1505.5	1496.3	1503.9	1510.1
40°	8877.7	7140.3	3742.2	2124.6	1676.0	1520.8	1456.3	1441.0	1436.4	1447.1	1456.3
42.5°	9645.8	7588.8	3567.1	1969.4	1593.0	1453.2	1394.9	1376.4	1371.8	1384.1	1396.4
45°	10476.9	8071.2	3444.2	1854.2	1528.5	1402.6	1341.1	1321.1	1311.9	1318.1	1331.9
47.5°	11232.7	8527.5	3395.0	1772.8	1467.1	1359.5	1293.5	1268.9	1253.5	1250.5	1261.2
50°	11870.2	8867.0	3418.1	1723.6	1417.9	1311.9	1247.4	1219.7	1196.7	1182.9	1190.6
52.5°	12334.2	9080.5	3439.6	1702.1	1379.5	1259.7	1196.7	1170.6	1139.9	1116.8	1116.8
55°	12670.6	9129.7	3391.9	1685.2	1350.3	1202.8	1139.9	1115.3	1084.6	1058.4	1055.4
57.5°	12802.7	8991.4	3215.3	1660.6	1330.4	1149.1	1080.0	1061.5	1035.4	1004.7	1003.1
60°	12624.5	8564.3	2874.2	1608.4	1304.2	1104.5	1020.0	1007.7	995.5	966.3	964.7
62.5°	11908.6	7627.2	2433.3	1502.4	1252.0	1056.9	964.7	970.9	972.4	952.4	949.4
65°	10610.6	6339.9	2003.2	1364.1	1173.7	1000.1	907.9	937.1	954.0	950.9	946.3
67.5°	8724.1	4934.3	1697.5	1218.2	1070.7	921.7	846.4	880.2	894.1	904.8	901.8
70°	6475.1	3479.5	1404.1	1064.6	946.3	829.5	766.6	783.5	774.2	786.5	791.1
72.5°	3610.1	2087.7	1144.5	911.0	817.3	722.0	677.5	674.4	654.4	654.4	654.4
74°	2166.0	1531.6	1006.2	815.7	738.9	651.4	612.9	599.1	580.7	582.2	580.7
75°	1742.1	1316.5	923.3	752.7	683.6	609.9	571.5	553.0	539.2	539.2	537.7
77.5°	1099.9	1000.1	743.5	599.1	546.9	502.3	476.2	451.6	451.6	450.1	448.6
80°	831.1	795.8	579.1	453.2	419.4	385.6	368.7	357.9	357.9	362.5	361.0
82.5°	569.9	599.1	407.1	316.5	299.6	275.0	271.9	273.4	268.8	262.7	261.2
85°	416.3	450.1	275.0	199.7	182.8	167.4	179.7	185.9	178.2	164.4	158.2
87.5°	159.8	295.0	147.5	83.0	76.8	66.1	76.8	79.9	86.0	67.6	69.1
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)