

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: P318582

Luminaire Tested: **GAN-SA8D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49424 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

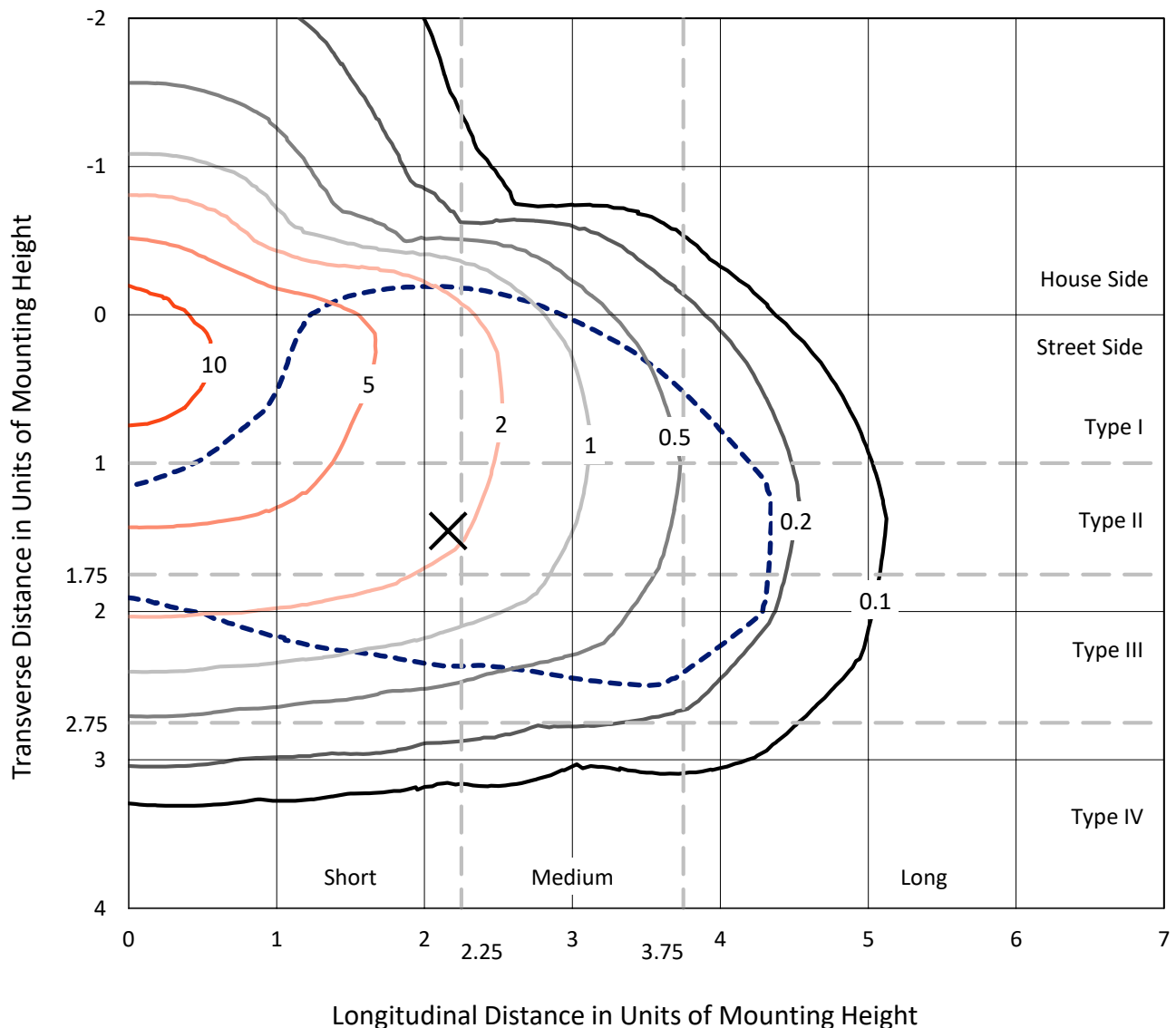
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

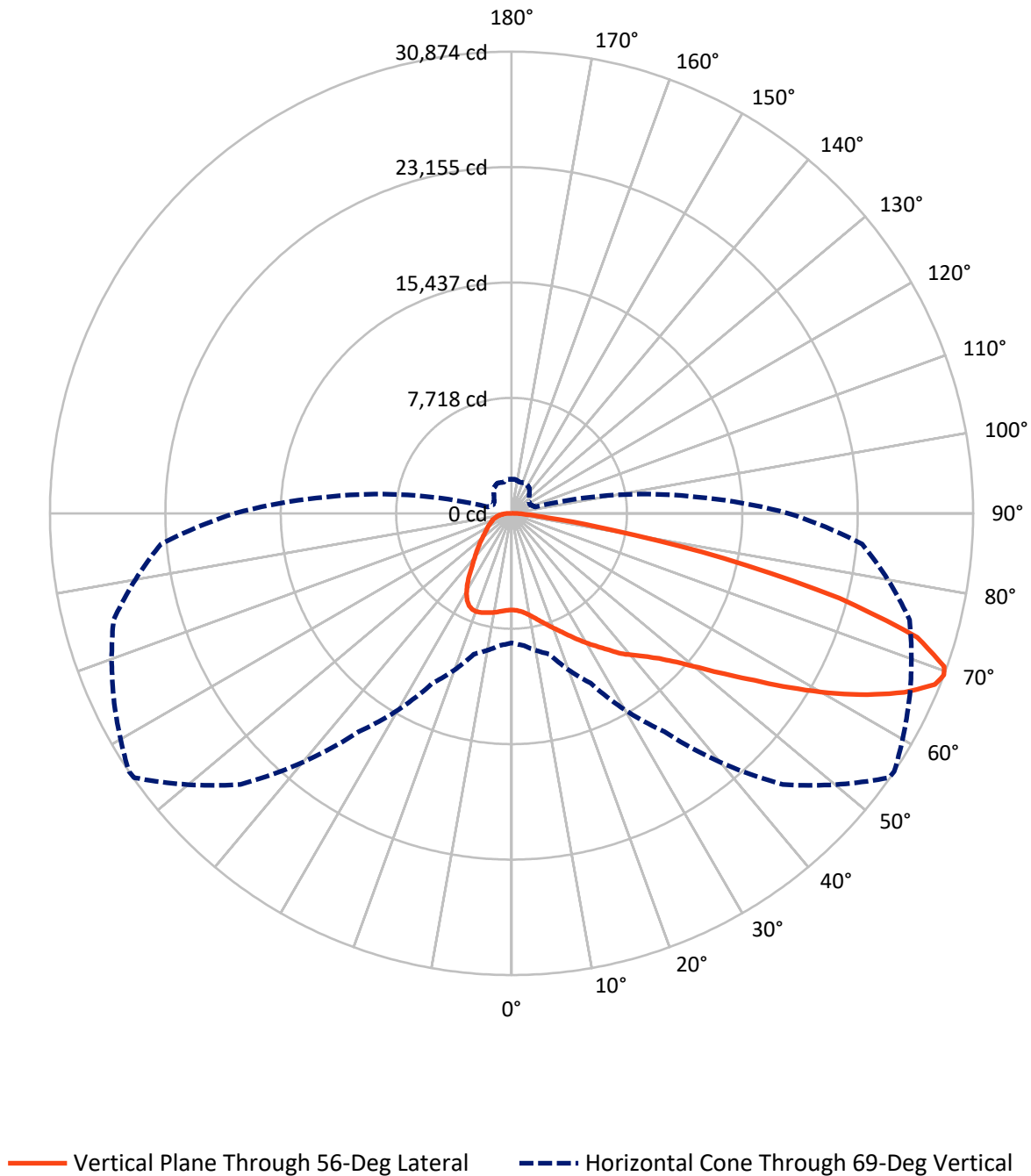
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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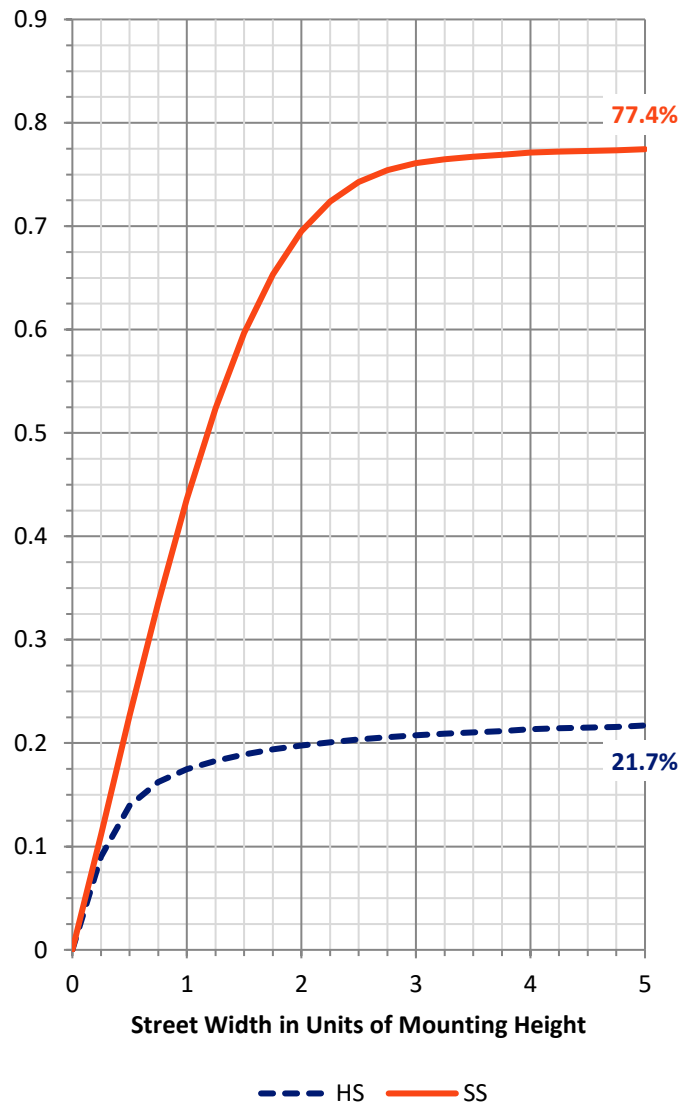
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11006.6	0.0	11006.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	38417.4	0.0	38417.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	49424.0	0.0	49424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.6	1.3
10°-20°	2040.7	4.1
20°-30°	3562.2	7.2
30°-40°	5117.0	10.4
40°-50°	7081.7	14.3
50°-60°	10375.6	21.0
60°-70°	12649.9	25.6
70°-80°	6993.7	14.2
80°-90°	968.6	2.0
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°	49424.0	100.0
0°-180°	49424.0	100.0

Coefficient of Utilization



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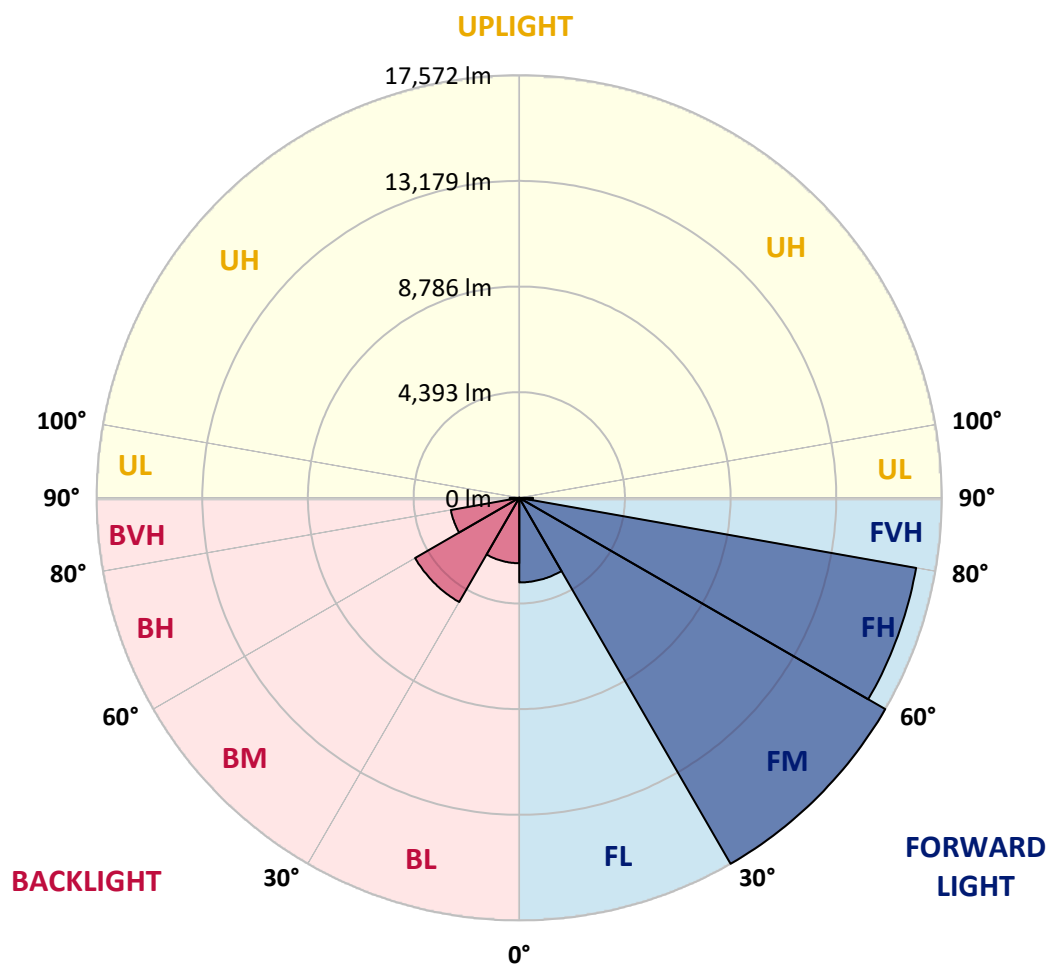
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3517.5	7.1			
FM	(30°-60°)	17572.1	35.6			
FH	(60°-80°)	16757.2	33.9			G5
FVH	(80°-90°)	570.6	1.2			G4/750
BL	(0°-30°)	2720.0	5.5	B4/5000		
BM	(30°-60°)	5002.3	10.1	B4/8500		
BH	(60°-80°)	2886.3	5.8	B4/5000		G4/5000
BVH	(80°-90°)	398.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4
2.5°	6502.3	6509.1	6504.0	6517.6	6502.3	6512.5	6504.0	6504.0	6498.9	6483.6	6466.6
5°	6604.5	6618.1	6609.6	6623.2	6604.5	6607.9	6592.5	6592.5	6577.2	6544.9	6510.8
7.5°	6764.5	6779.8	6773.0	6786.6	6761.1	6761.1	6740.7	6739.0	6708.3	6655.5	6616.4
10°	6955.2	6975.6	6968.8	6989.3	6968.8	6975.6	6955.2	6955.2	6914.3	6839.4	6790.0
12.5°	7232.7	7258.3	7239.5	7237.8	7229.3	7242.9	7225.9	7222.5	7185.1	7082.9	7014.8
15°	7603.9	7631.1	7592.0	7588.6	7540.9	7535.8	7535.8	7530.7	7506.9	7384.3	7271.9
17.5°	8031.3	8039.8	8005.7	7951.2	7889.9	7850.8	7845.7	7859.3	7859.3	7716.3	7537.5
20°	8450.1	8465.4	8438.2	8376.9	8298.6	8240.7	8199.8	8227.1	8225.4	8055.1	7801.4
22.5°	8906.4	8942.2	8901.3	8823.0	8731.0	8666.3	8594.8	8618.7	8620.4	8410.9	8060.2
25°	9497.2	9464.9	9439.3	9328.7	9197.6	9131.2	9064.8	9088.6	9081.8	8794.0	8327.5
27.5°	10019.9	10026.7	9992.7	9875.2	9723.7	9577.2	9573.8	9589.2	9563.6	9192.4	8579.5
30°	10627.8	10631.2	10583.5	10477.9	10312.8	10123.8	10079.5	10105.1	10050.6	9570.4	8845.1
32.5°	11232.2	11249.2	11196.4	11068.7	10935.9	10706.1	10617.5	10634.6	10498.4	9956.9	9119.2
35°	11761.7	11785.5	11768.5	11683.4	11538.7	11341.2	11235.6	11225.4	11056.8	10430.3	9481.9
37.5°	12301.4	12323.6	12304.8	12233.3	12175.4	11966.0	11909.8	11909.8	11617.0	10913.8	9943.3
40°	12856.5	12890.5	12868.4	12769.7	12720.3	12624.9	12490.4	12458.1	12141.4	11494.4	10695.9
42.5°	13372.4	13416.6	13505.2	13447.3	13346.8	13360.5	13089.7	13072.7	12841.2	12352.5	11640.8
45°	14104.5	14169.2	14319.0	14274.8	14254.3	14179.4	13857.6	13842.3	13753.8	13506.9	12813.9
47.5°	14903.0	14991.6	15262.3	15270.8	15490.4	15349.1	14911.5	14858.8	14879.2	14889.4	14245.8
50°	15638.6	15735.6	16180.0	16389.4	16907.0	16937.7	16237.9	16190.2	16270.2	16505.2	15914.4
52.5°	16226.0	16348.6	16903.6	17550.6	18437.7	18689.7	17870.7	17834.9	17894.5	18299.8	17800.9
55°	16656.7	16789.5	17394.0	18572.2	19988.8	20433.1	19750.4	19716.3	19753.8	20269.7	19852.6
57.5°	16757.2	16789.5	17666.4	19260.0	21298.1	22365.6	22050.6	21982.5	21798.6	22248.1	22117.0
60°	16285.6	16415.0	17441.6	19501.8	22311.1	24270.9	24454.7	24369.6	23853.7	24221.5	24115.9
62.5°	15328.7	15560.2	16602.3	19134.0	22707.8	25827.0	26812.9	26710.7	25821.9	26060.3	25552.9
65°	13765.7	13864.4	14959.2	17865.6	22203.9	26823.1	28915.6	28864.5	27745.9	27373.0	25818.5
67.5°	10970.0	11155.6	12085.2	15214.6	20142.0	26705.6	30541.6	30536.5	29002.4	27860.0	24877.0
69°	8666.3	8858.7	9744.1	12533.0	17823.0	25631.2	30814.0	30873.6	29356.6	27563.7	23531.9
70°	6909.2	7132.3	7740.1	10556.2	15764.6	24214.7	30587.6	30694.8	29288.5	27075.1	22290.7
72.5°	2940.4	3120.9	3553.4	5441.6	9607.9	18081.8	27967.2	28372.5	27710.1	24779.9	18422.4
75°	1283.8	1340.0	1535.8	2218.5	4265.1	9841.1	21909.3	22658.5	23693.7	20945.6	13723.1
77.5°	939.8	963.7	1070.9	1302.5	1913.7	3716.8	14089.2	14525.1	17087.5	15241.9	8417.8
80°	727.0	744.0	827.5	956.9	1249.7	1503.4	6425.7	6800.3	9607.9	7828.6	3505.7
82.5°	578.9	590.8	648.7	704.9	863.2	910.9	2133.4	2366.6	3546.6	2162.3	927.9
85°	538.0	551.6	572.1	514.2	553.4	534.6	922.8	965.4	1070.9	849.6	388.2
87.5°	243.5	287.7	567.0	400.1	294.6	235.0	378.0	395.0	444.4	446.1	172.0
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°	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4	6461.4
2.5°	6476.8	6471.7	6480.2	6459.7	6485.3	6483.6	6475.1	6478.5	6495.5	6493.8	6495.5
5°	6515.9	6512.5	6522.7	6507.4	6538.1	6548.3	6550.0	6565.3	6584.0	6589.1	6589.1
7.5°	6614.7	6614.7	6619.8	6599.4	6619.8	6618.1	6609.6	6624.9	6643.6	6645.3	6643.6
10°	6784.9	6786.6	6778.1	6725.4	6708.3	6662.4	6619.8	6621.5	6645.3	6664.1	6669.2
12.5°	6999.5	6992.7	6955.2	6858.2	6786.6	6693.0	6648.7	6647.0	6670.9	6686.2	6691.3
15°	7244.6	7225.9	7128.9	6970.5	6844.5	6752.6	6681.1	6664.1	6650.4	6633.4	6635.1
17.5°	7476.2	7433.6	7271.9	7052.3	6919.4	6796.9	6658.9	6548.3	6471.7	6427.4	6413.8
20°	7711.2	7627.7	7394.5	7128.9	6960.3	6737.3	6471.7	6246.9	6107.3	6042.6	6030.7
22.5°	7925.7	7791.2	7508.6	7208.9	6928.0	6536.4	6119.2	5792.3	5598.2	5511.4	5518.2
25°	8135.1	7947.8	7627.7	7265.1	6764.5	6182.2	5628.9	5227.0	5002.3	4905.2	4901.8
27.5°	8319.0	8106.2	7757.1	7219.1	6459.7	5678.2	5048.3	4656.7	4469.4	4385.9	4372.3
30°	8530.1	8305.4	7929.1	7043.7	6013.7	5095.9	4481.3	4205.5	4072.7	3989.2	3973.9
32.5°	8787.2	8576.1	8070.4	6725.4	5443.3	4488.1	4038.6	3846.2	3725.3	3631.7	3614.7
35°	9161.8	8933.6	8106.2	6269.0	4816.7	4008.0	3713.4	3515.9	3352.5	3231.6	3219.7
37.5°	9631.7	9381.4	8024.4	5678.2	4208.9	3696.4	3442.7	3199.2	2986.4	2816.1	2788.9
40°	10309.4	9931.4	7798.0	4997.2	3761.1	3456.3	3178.8	2901.3	2637.4	2438.2	2399.0
42.5°	11123.2	10576.7	7450.7	4319.5	3432.5	3212.8	2916.6	2572.7	2320.7	2179.4	2158.9
45°	12158.4	11247.5	6968.8	3727.0	3109.0	2969.4	2634.0	2317.3	2160.6	2056.8	2039.7
47.5°	13340.0	12000.1	6463.1	3245.2	2834.9	2741.2	2407.5	2203.2	2078.9	1997.2	1981.9
50°	14792.4	12849.7	5926.8	2850.2	2559.0	2467.1	2300.2	2140.2	2041.4	1978.4	1963.1
52.5°	16430.3	13808.3	5540.3	2538.6	2330.9	2264.5	2244.1	2106.1	2026.1	1978.4	1963.1
55°	18194.2	14783.9	5123.2	2276.4	2133.4	2152.1	2206.6	2109.5	2055.1	1997.2	1975.0
57.5°	19959.8	15791.8	4658.4	2055.1	1976.7	2068.7	2181.1	2116.4	2070.4	2014.2	1993.8
60°	21356.0	16430.3	3938.2	1869.5	1852.5	1976.7	2119.8	2065.3	2005.7	2007.4	2004.0
62.5°	22008.1	16396.2	3143.0	1704.3	1728.2	1852.5	2021.0	1985.3	1935.9	2002.3	2007.4
65°	21642.0	15579.0	2446.7	1554.5	1595.4	1723.1	1918.9	1946.1	1963.1	2090.8	2107.8
67.5°	20106.2	13988.7	1895.0	1423.4	1474.5	1634.5	1929.1	2119.8	2141.9	2276.4	2274.7
69°	18517.7	12497.2	1646.4	1355.3	1414.9	1656.6	2061.9	2230.4	2147.0	2290.0	2269.6
70°	17186.2	11317.3	1513.6	1309.3	1387.6	1695.8	2150.4	2228.7	2121.5	2244.1	2210.0
72.5°	13236.2	8141.9	1283.8	1224.2	1295.7	1622.6	2175.9	2179.4	2061.9	2085.7	2027.8
75°	9078.4	5145.3	1120.3	1108.4	1156.1	1462.6	2094.2	2082.3	1906.9	1872.9	1825.2
77.5°	5005.7	2613.5	951.8	997.7	1030.1	1295.7	1903.5	1886.5	1741.8	1670.3	1653.2
80°	1930.8	1144.2	803.6	887.1	907.5	1122.0	1668.6	1653.2	1532.4	1440.4	1414.9
82.5°	728.7	599.3	664.0	767.9	761.1	926.2	1413.2	1404.7	1287.2	1152.7	1111.8
85°	337.1	359.3	526.1	633.4	584.0	686.2	1130.5	1145.9	1002.8	842.8	842.8
87.5°	143.0	200.9	372.9	478.4	393.3	463.1	829.2	791.7	727.0	504.0	473.3
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)