

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: P318152

Luminaire Tested: **GAN-SA8A-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36650 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

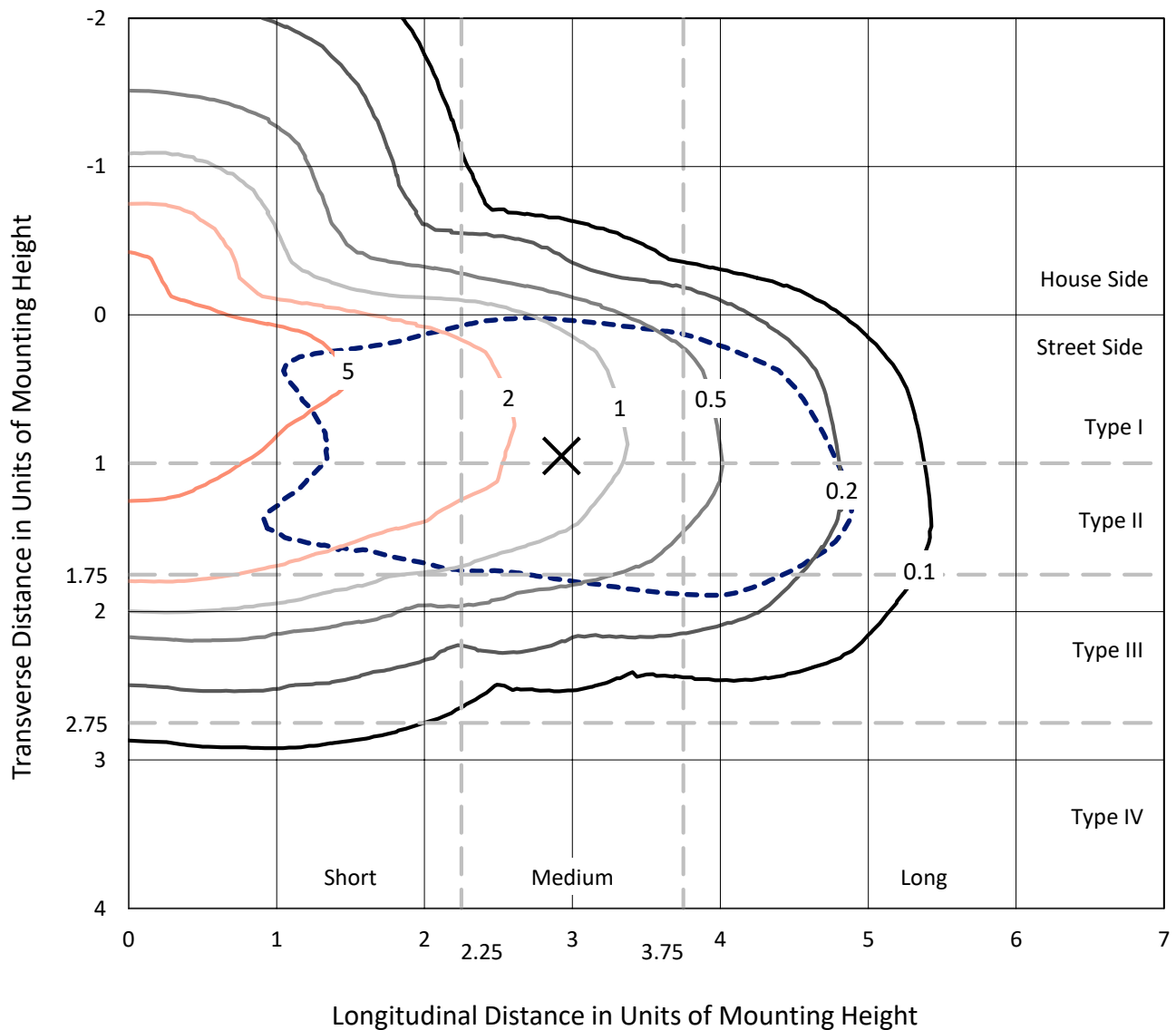
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

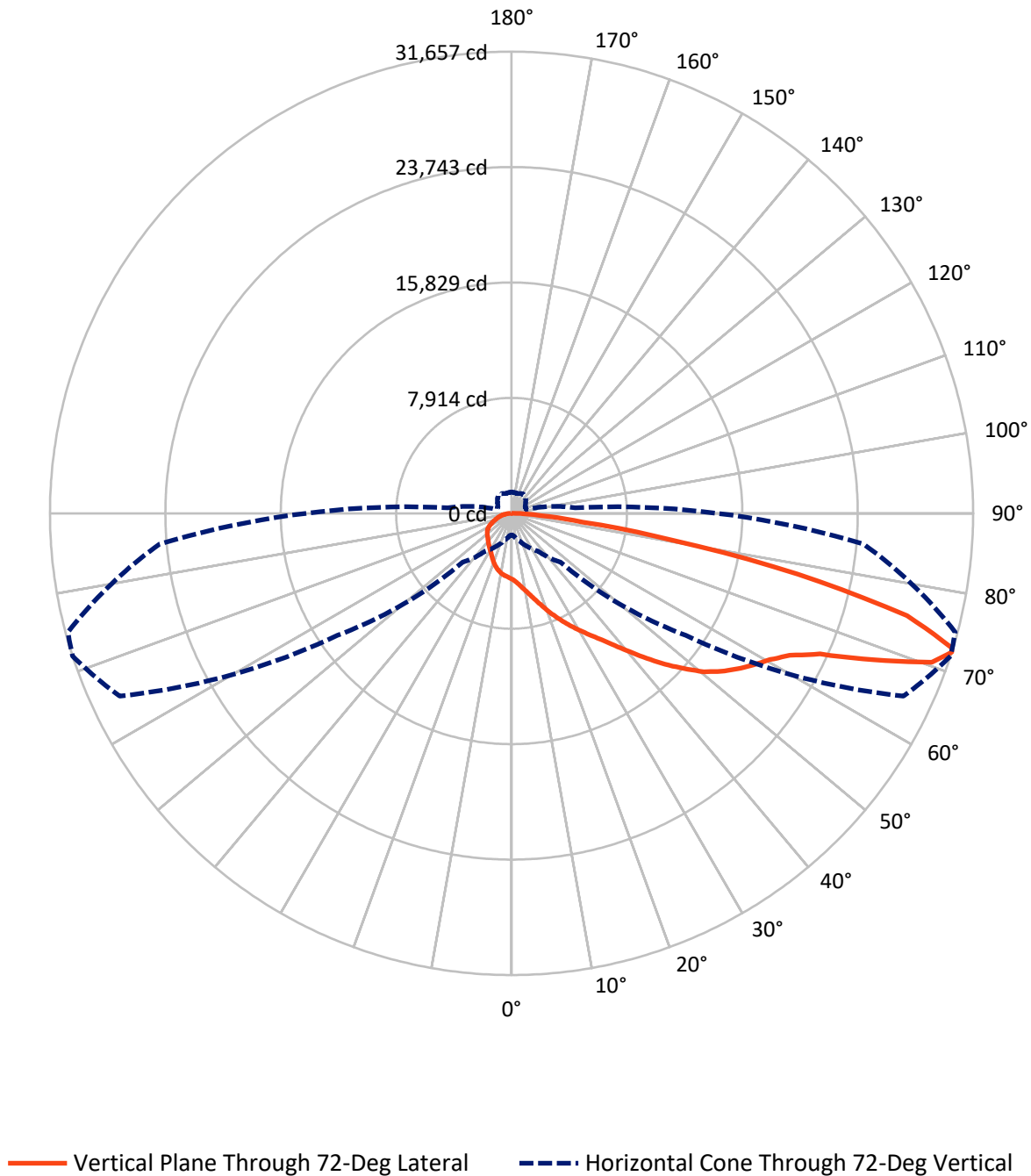
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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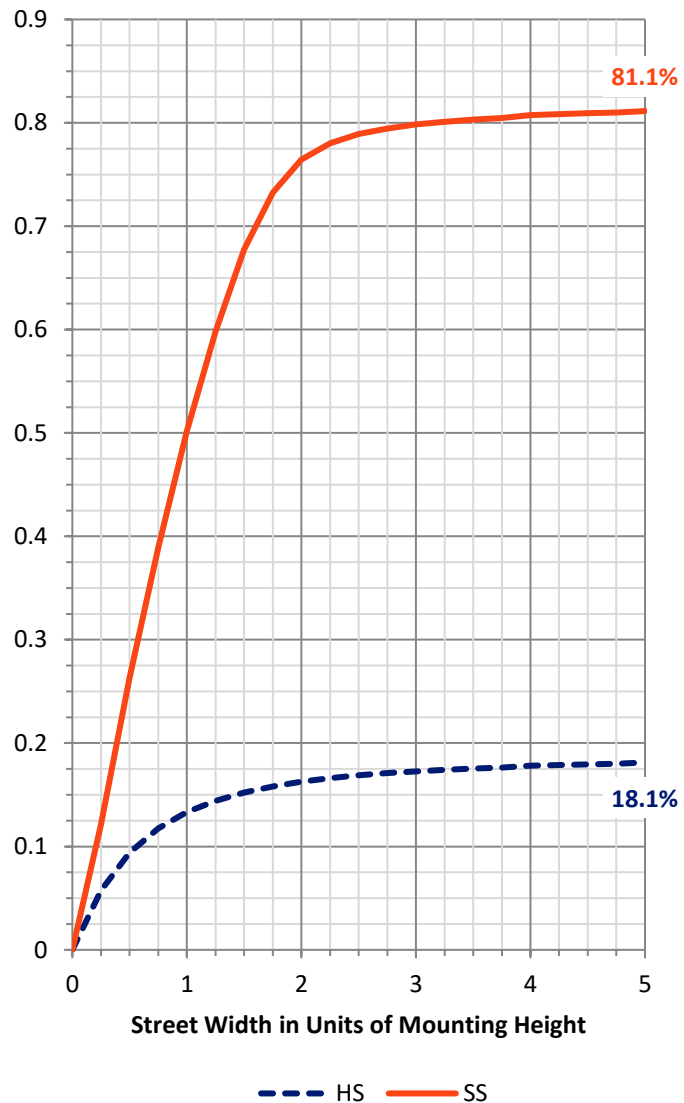
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6798.8	0.0	6798.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29851.2	0.0	29851.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	36650.0	0.0	36650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	1.2
10°-20°	1460.0	4.0
20°-30°	2558.4	7.0
30°-40°	3793.3	10.4
40°-50°	5548.0	15.1
50°-60°	7634.0	20.8
60°-70°	8499.0	23.2
70°-80°	5758.9	15.7
80°-90°	946.5	2.6
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°	36650.0	100.0
0°-180°	36650.0	100.0

Coefficient of Utilization



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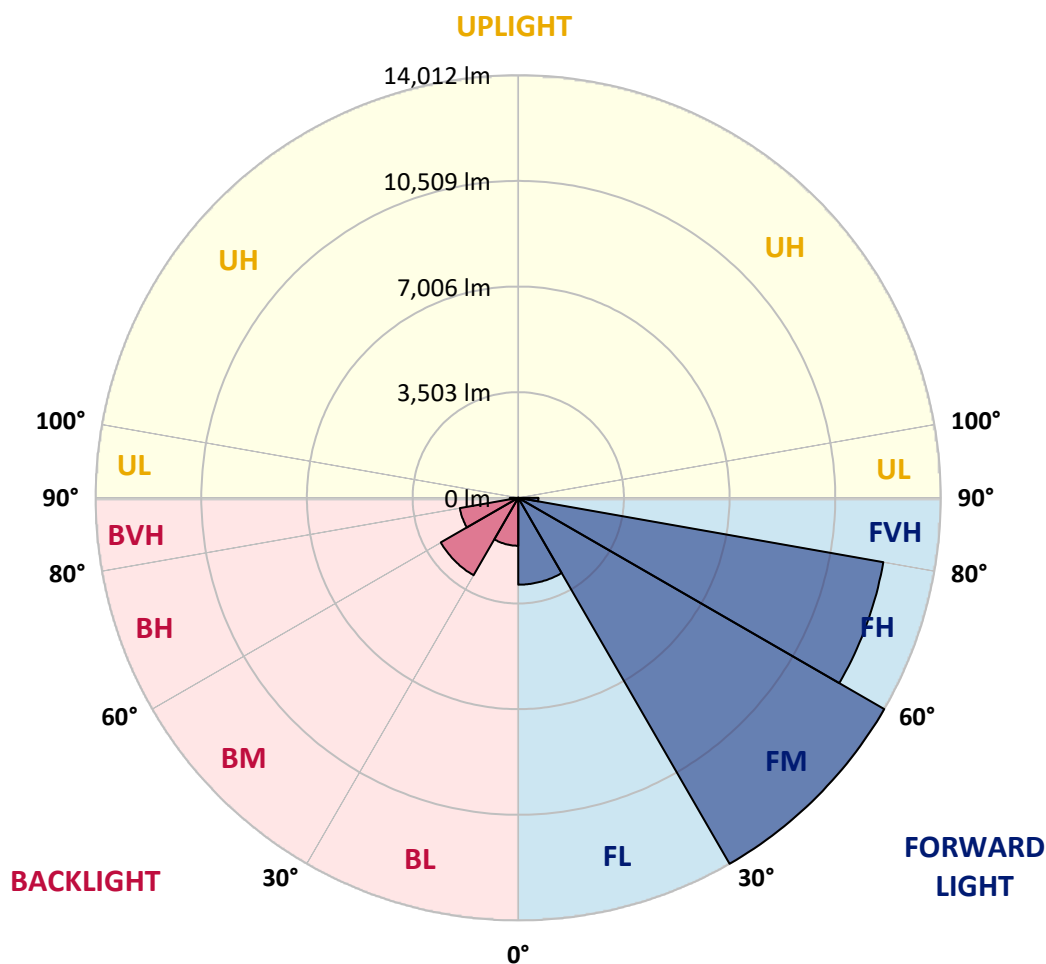
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2880.9	7.9			
FM	(30°-60°)	14011.7	38.2			
FH	(60°-80°)	12290.9	33.5			G5
FVH	(80°-90°)	667.7	1.8			G4/750
BL	(0°-30°)	1589.3	4.3	B3/2500		
BM	(30°-60°)	2963.7	8.1	B3/5000		
BH	(60°-80°)	1967.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	278.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9
2.5°	4980.9	4973.3	4946.8	4946.8	4896.3	4853.4	4772.7	4718.4	4654.0	4631.3	4555.6
5°	5462.9	5465.5	5432.6	5409.9	5335.5	5244.6	5107.1	4982.1	4857.2	4806.7	4651.5
7.5°	5868.0	5863.0	5854.1	5835.2	5765.8	5672.4	5486.9	5301.4	5117.2	5041.4	4773.9
10°	6128.0	6139.3	6146.9	6155.7	6126.7	6059.8	5884.4	5658.5	5417.5	5314.0	4920.3
12.5°	6259.2	6279.4	6314.7	6375.3	6423.3	6415.7	6288.2	6048.5	5762.0	5632.0	5103.3
15°	6336.2	6362.7	6418.2	6526.7	6661.8	6738.8	6704.7	6487.6	6168.4	6008.1	5326.6
17.5°	6384.1	6405.6	6491.4	6636.5	6837.2	7041.6	7131.2	6949.5	6627.7	6444.7	5582.8
20°	6417.0	6433.4	6540.6	6711.0	6970.9	7296.5	7546.4	7501.0	7133.7	6896.5	5850.3
22.5°	6490.1	6504.0	6606.2	6777.9	7065.6	7485.8	7946.4	8014.6	7667.5	7398.7	6136.8
25°	6694.6	6694.6	6780.4	6900.3	7170.3	7649.9	8284.6	8586.2	8212.7	7899.7	6401.8
27.5°	7084.5	7080.7	7112.3	7153.9	7358.4	7816.4	8586.2	9091.0	8778.0	8436.1	6659.2
30°	7546.4	7571.6	7575.4	7555.2	7651.1	8024.7	8865.1	9623.5	9347.2	8978.7	6923.0
32.5°	8140.8	8157.2	8138.2	8071.4	8057.5	8320.0	9139.0	10181.3	9963.0	9545.3	7164.0
35°	8895.4	8863.9	8804.5	8668.3	8538.3	8714.9	9451.9	10739.1	10654.5	10230.5	7495.9
37.5°	9704.3	9705.6	9632.4	9323.2	9144.0	9219.7	9883.5	11371.3	11491.2	11045.7	7921.2
40°	10352.9	10387.0	10432.4	10026.1	9793.9	9898.6	10432.4	12104.5	12480.6	12012.4	8475.2
42.5°	10806.0	10845.1	10973.8	10718.9	10477.9	10672.2	11078.6	12886.9	13591.1	13127.9	9123.8
45°	11285.5	11307.0	11397.8	11288.0	11134.1	11572.0	11806.7	13697.1	14765.9	14316.7	9849.4
47.5°	11790.3	11813.0	11906.4	11833.2	11752.4	12412.4	12566.4	14460.6	15891.6	15622.8	10624.3
50°	12413.7	12428.8	12517.2	12384.7	12409.9	13045.9	13245.3	15160.9	17071.5	16796.4	11401.6
52.5°	13264.2	13268.0	13390.4	13270.5	13151.9	13510.3	13829.6	15820.9	17996.5	17866.5	12179.0
55°	13930.5	13970.9	14372.2	14347.0	14278.8	13931.8	14318.0	16449.4	18821.8	18883.6	13004.3
57.5°	13505.3	13663.0	14475.7	15048.6	15606.4	14980.5	14977.9	17157.3	19589.1	19881.8	13911.6
60°	11828.1	12042.7	13240.3	14511.0	16256.3	16805.2	16348.4	18021.7	20363.9	20871.2	15048.6
62.5°	8447.4	8800.8	10423.6	12452.8	15365.4	18014.2	19137.3	19393.5	21417.6	22017.0	16526.3
65°	4270.4	4537.9	5898.3	8342.7	12276.1	17224.2	22168.5	22396.9	23248.7	23781.2	18801.6
67.5°	2594.5	2695.5	3359.3	4640.1	7526.2	13416.9	23157.8	27403.0	26792.2	27074.9	22046.1
70°	1911.8	1986.3	2400.2	3081.7	4328.4	7873.2	20121.6	30975.5	30574.2	30542.7	24443.7
72°	1489.1	1543.4	1909.3	2489.8	3164.9	4723.4	14584.2	29656.8	31657.0	31498.0	24224.2
72.5°	1412.1	1460.1	1793.2	2343.4	2990.8	4281.8	13112.8	28767.1	31578.7	31506.8	23940.2
75°	1111.8	1145.8	1327.6	1812.1	2340.9	2429.2	7185.5	22293.4	28013.8	29178.5	21532.5
77.5°	920.0	925.0	1020.9	1318.7	1824.8	1717.5	3529.6	15467.6	20059.8	21340.6	15253.1
80°	749.6	755.9	801.3	925.0	1380.6	1270.8	1675.9	8894.1	11231.3	11245.1	7253.6
82.5°	596.9	598.2	648.6	676.4	991.9	908.6	960.3	4175.8	4907.7	4720.9	2607.2
85°	420.2	411.4	633.5	555.3	648.6	583.0	530.0	1653.1	2029.2	1940.9	816.5
87.5°	140.1	145.1	281.4	359.7	378.6	330.6	236.0	633.5	766.0	759.7	258.7
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°	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9
2.5°	4531.6	4491.2	4431.9	4366.3	4314.6	4261.6	4222.4	4202.3	4179.5	4160.6	4183.3
5°	4579.6	4503.9	4377.7	4254.0	4163.1	4082.4	4024.3	3994.0	3966.3	3947.3	3949.9
7.5°	4657.8	4535.4	4323.4	4142.9	4016.8	3929.7	3870.4	3850.2	3832.5	3827.5	3833.8
10°	4741.1	4560.6	4251.5	4011.7	3867.8	3795.9	3769.4	3783.3	3795.9	3807.3	3819.9
12.5°	4835.7	4583.4	4146.7	3857.7	3735.3	3707.6	3734.1	3794.6	3838.8	3865.3	3881.7
15°	4959.4	4603.6	4025.6	3703.8	3621.8	3653.3	3742.9	3847.7	3924.6	3973.8	3981.4
17.5°	5073.0	4602.3	3870.4	3548.6	3529.6	3621.8	3756.8	3904.4	4007.9	4077.3	4091.2
20°	5190.4	4568.2	3689.9	3397.1	3436.3	3587.7	3763.1	3941.0	4066.0	4146.7	4165.7
22.5°	5300.1	4508.9	3491.8	3259.6	3358.0	3542.3	3739.1	3919.6	4044.5	4110.1	4130.3
25°	5374.6	4405.4	3291.1	3143.5	3288.6	3486.7	3660.9	3806.0	3899.4	3932.2	3937.2
27.5°	5412.5	4270.4	3101.8	3042.5	3216.7	3395.9	3515.8	3587.7	3614.2	3611.7	3606.6
30°	5417.5	4092.5	2939.1	2960.5	3133.4	3262.1	3318.9	3305.0	3270.9	3212.9	3217.9
32.5°	5401.1	3891.8	2802.8	2882.3	3027.4	3099.3	3101.8	3035.0	2944.1	2852.0	2826.7
35°	5406.1	3695.0	2682.9	2793.9	2898.7	2930.2	2901.2	2802.8	2679.1	2560.5	2535.2
37.5°	5461.7	3523.3	2579.4	2691.7	2756.1	2763.6	2722.0	2618.5	2527.7	2411.6	2401.5
40°	5594.2	3400.9	2481.0	2576.9	2613.5	2617.3	2557.9	2484.8	2492.3	2430.5	2429.2
42.5°	5832.7	3347.9	2393.9	2457.0	2479.7	2487.3	2441.9	2395.2	2460.8	2420.4	2406.5
45°	6140.6	3360.5	2320.7	2339.6	2381.3	2416.6	2388.8	2332.1	2357.3	2181.9	2123.8
47.5°	6496.5	3441.3	2262.7	2238.7	2310.6	2377.5	2334.6	2248.8	2159.2	1985.0	1952.2
50°	6912.9	3566.2	2209.7	2139.0	2233.6	2324.5	2281.6	2159.2	2024.1	1939.6	1928.2
52.5°	7347.0	3718.9	2156.7	2029.2	2136.5	2284.1	2262.7	2139.0	1972.4	1889.1	1874.0
55°	7839.2	3872.9	2089.8	1901.7	2031.7	2265.2	2253.8	2065.8	1933.3	1886.6	1875.2
57.5°	8451.2	4048.3	2001.4	1769.2	1933.3	2197.0	2161.7	2021.6	1892.9	1857.6	1853.8
60°	9248.7	4307.0	1874.0	1627.9	1813.4	2092.3	2084.7	1957.3	1828.5	1803.3	1798.3
62.5°	10445.1	4734.8	1698.6	1486.6	1679.6	1914.4	1983.8	1870.2	1760.4	1759.1	1761.7
65°	12300.1	5378.4	1508.0	1362.9	1544.6	1764.2	1866.4	1780.6	1691.0	1716.2	1720.0
67.5°	14450.5	5912.2	1321.2	1241.7	1407.1	1621.6	1760.4	1691.0	1598.9	1664.5	1665.8
70°	15166.0	5435.2	1157.2	1121.9	1264.5	1484.0	1645.6	1592.6	1499.2	1564.8	1558.5
72°	14113.5	4387.8	1051.2	1031.0	1157.2	1370.5	1543.4	1500.4	1408.3	1452.5	1436.1
72.5°	13781.6	4183.3	1024.7	1008.3	1128.2	1341.4	1516.9	1477.7	1385.6	1423.5	1408.3
75°	12293.8	3633.1	880.8	884.6	984.3	1200.1	1367.9	1355.3	1260.7	1264.5	1259.4
77.5°	8916.9	2664.0	742.0	767.3	837.9	1055.0	1217.8	1210.2	1106.7	1087.8	1084.0
80°	4137.9	1359.1	604.5	615.8	689.0	882.1	1038.6	1028.5	945.2	921.2	907.3
82.5°	1417.2	646.1	454.3	461.9	533.8	710.5	901.0	894.7	825.3	778.6	749.6
85°	506.0	321.8	318.0	310.4	381.1	559.0	784.9	750.9	648.6	552.7	550.2
87.5°	164.1	137.6	164.1	162.8	222.1	378.6	570.4	485.8	470.7	391.2	383.6
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)