

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: P319782

Luminaire Tested: **GAN-SA8D-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62188 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

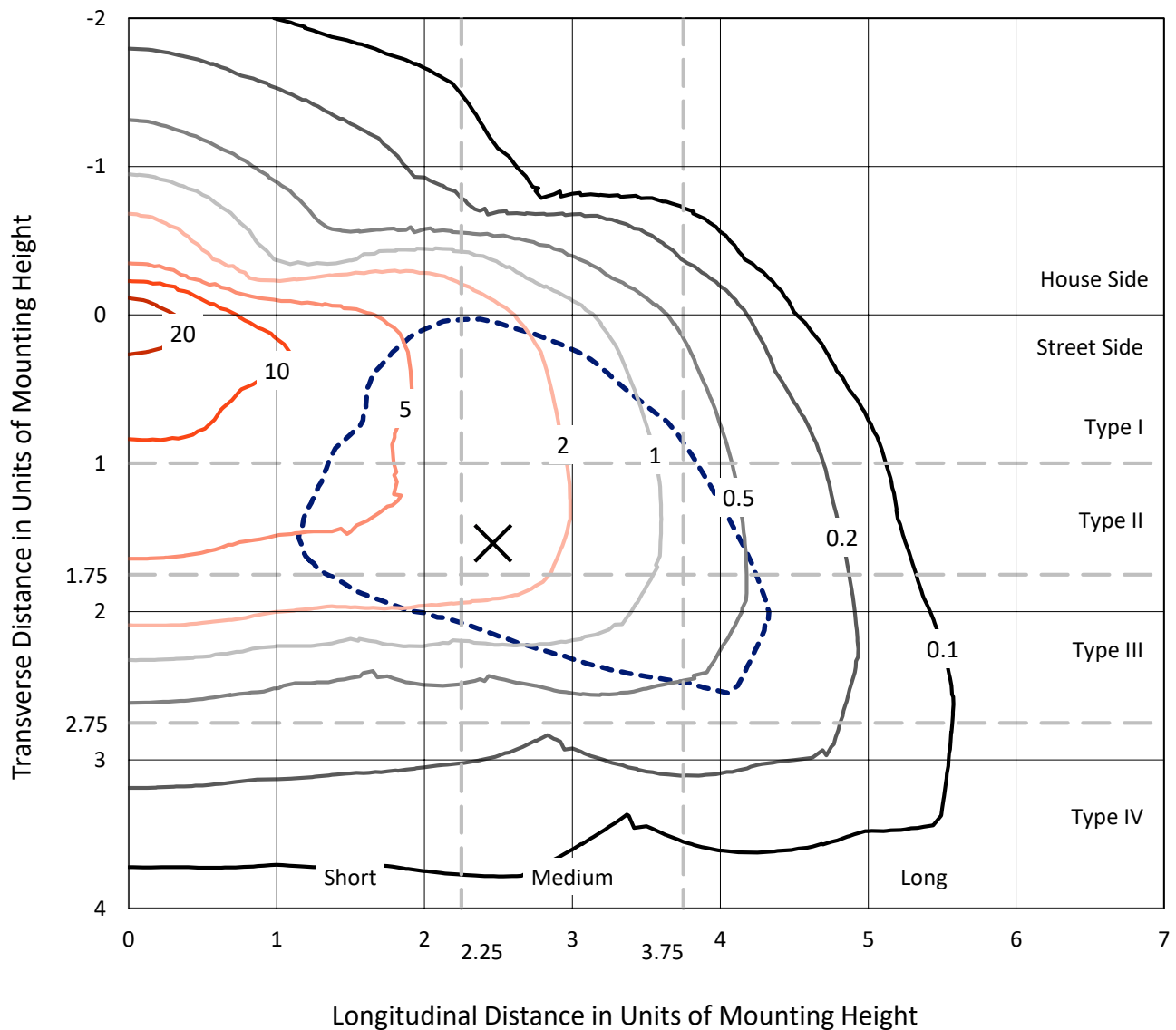


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Iso-Footcandle Lines of Horizontal Illumination

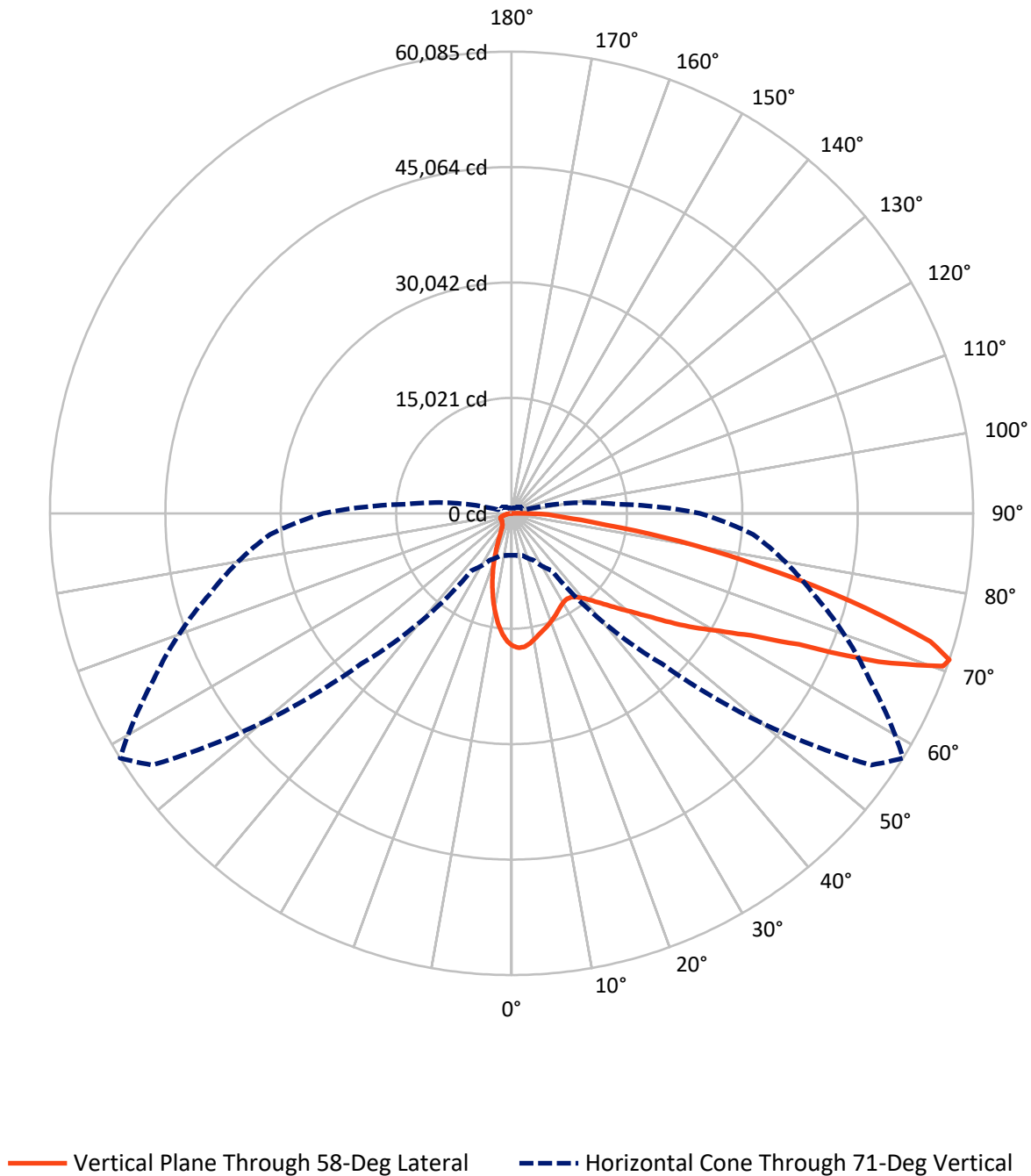
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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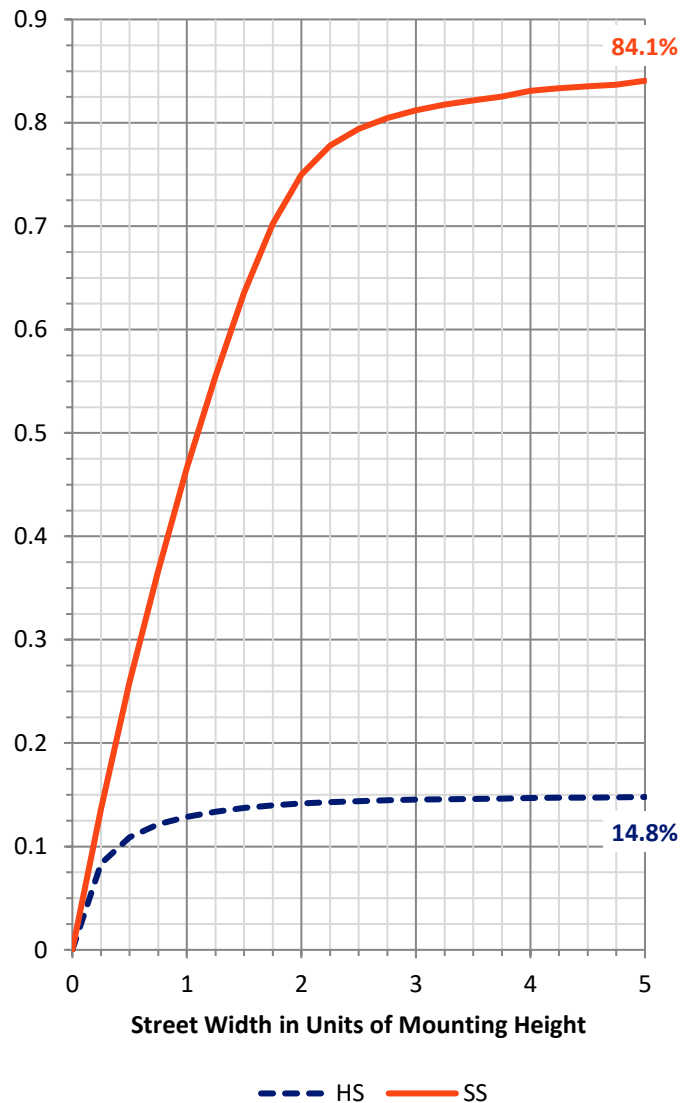
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9297.5	0.0	9297.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	52890.5	0.0	52890.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	62188.0	0.0	62188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1486.5	2.4
10°-20°	3305.3	5.3
20°-30°	4200.7	6.8
30°-40°	5350.8	8.6
40°-50°	7587.8	12.2
50°-60°	11742.4	18.9
60°-70°	15985.7	25.7
70°-80°	10664.3	17.1
80°-90°	1864.5	3.0
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°	62188.0	100.0
0°-180°	62188.0	100.0

Coefficient of Utilization



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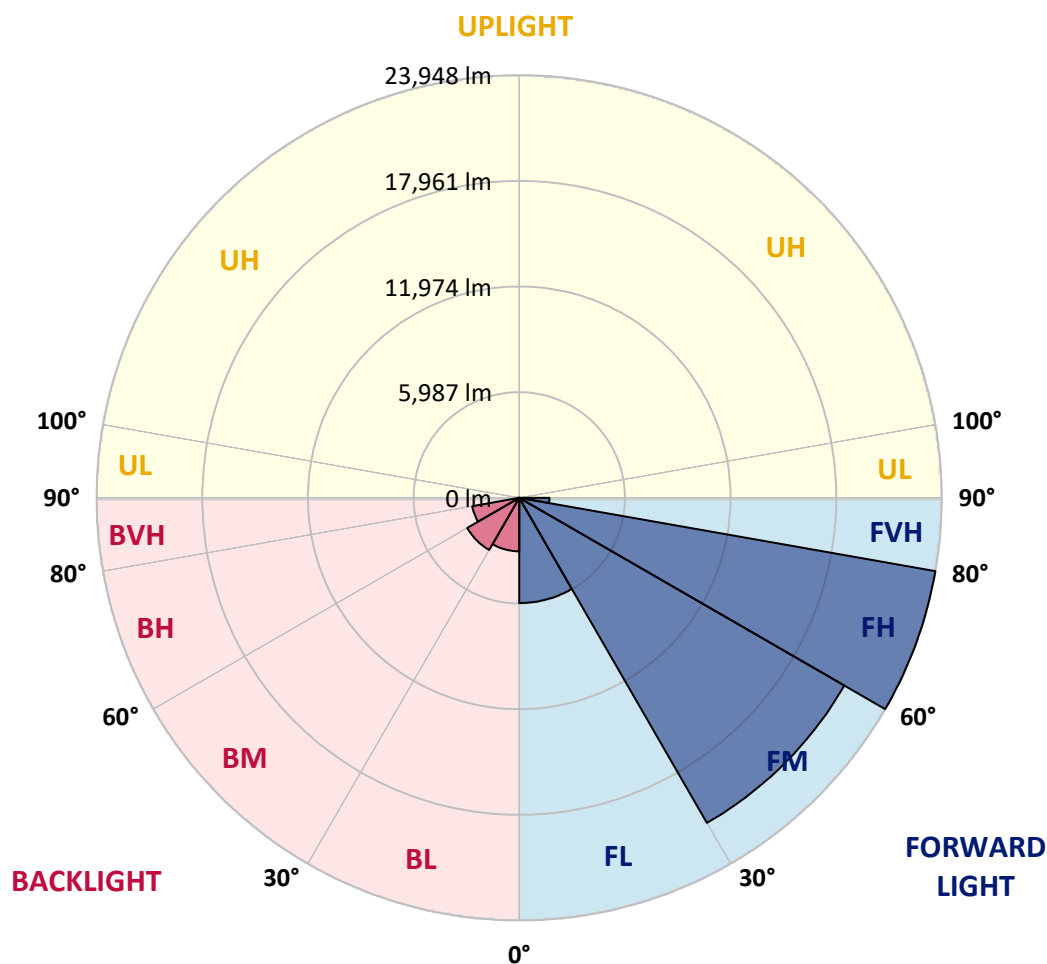
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5961.7	9.6			
FM	(30°-60°)	21271.3	34.2			
FH	(60°-80°)	23947.8	38.5			G5
FVH	(80°-90°)	1709.6	2.7			G5
BL	(0°-30°)	3030.7	4.9	B4/5000		
BM	(30°-60°)	3409.7	5.5	B3/5000		
BH	(60°-80°)	2702.2	4.3	B4/5000		G4/5000
BVH	(80°-90°)	154.9	0.2			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2
2.5°	17687.3	17663.5	17672.1	17654.8	17613.7	17572.5	17511.8	17522.7	17438.2	17312.6	17156.6
5°	17353.7	17345.0	17410.0	17446.9	17477.2	17453.4	17436.0	17457.7	17334.2	17160.9	16890.1
7.5°	16654.0	16558.7	16641.0	16764.5	16881.5	16970.3	17087.3	17102.4	17024.4	16842.5	16487.2
10°	15659.7	15568.7	15690.0	15882.8	16116.8	16329.1	16565.2	16608.5	16623.7	16459.1	16028.0
12.5°	14628.6	14559.3	14680.6	14951.4	15339.1	15666.2	16043.1	16108.1	16242.4	16132.0	15603.4
15°	13705.8	13679.8	13827.1	14093.5	14539.8	15040.2	15583.9	15703.0	15930.5	15893.7	15272.0
17.5°	12908.6	12902.1	13014.7	13294.2	13788.1	14420.6	15126.8	15328.3	15666.2	15709.5	14999.0
20°	12315.0	12302.0	12380.0	12585.8	13094.9	13811.9	14632.9	14910.2	15397.6	15549.2	14717.4
22.5°	11996.6	11994.4	11996.6	12094.1	12510.0	13177.2	14152.0	14489.9	15135.5	15421.4	14405.5
25°	11942.5	11936.0	11888.3	11877.5	12113.6	12646.5	13675.4	14048.0	14886.4	15332.6	14108.7
27.5°	12083.3	12091.9	12029.1	11927.3	11974.9	12297.7	13261.7	13660.3	14687.1	15315.3	13902.9
30°	12375.7	12371.4	12317.2	12211.1	12117.9	12167.7	12967.1	13365.7	14552.8	15391.1	13762.1
32.5°	12698.5	12722.3	12711.5	12653.0	12514.3	12315.0	12878.3	13268.2	14513.8	15573.1	13701.4
35°	13086.2	13112.2	13190.2	13235.7	13073.2	12752.6	13068.9	13406.8	14626.4	15915.3	13798.9
37.5°	13454.5	13521.6	13740.4	13933.2	13794.6	13437.2	13575.8	13816.2	14975.2	16454.7	14061.0
40°	13879.1	13937.6	14295.0	14704.4	14682.7	14312.3	14392.5	14552.8	15590.4	17228.1	14535.4
42.5°	14297.2	14414.1	14931.9	15512.4	15679.2	15352.1	15479.9	15564.4	16456.9	18252.7	15362.9
45°	14853.9	14979.5	15698.7	16398.4	16788.3	16604.2	16807.8	16840.3	17546.5	19647.8	16565.2
47.5°	15696.5	15839.5	16677.8	17412.2	18007.9	18027.4	18363.2	18350.2	18906.9	21244.3	18079.4
50°	17009.3	17215.1	17901.8	18588.5	19312.0	19714.9	20163.3	20100.5	20538.1	22944.8	19823.2
52.5°	18729.3	18824.6	19333.6	19840.5	20739.5	21642.9	22286.2	22229.9	22388.0	24692.9	21803.2
55°	20512.1	20583.6	20793.7	21071.0	22279.7	23752.8	25113.2	25024.3	24623.6	26508.2	23759.3
57.5°	22115.1	22260.2	22405.4	22520.2	23830.8	25958.0	28005.1	28011.6	27049.8	28466.5	25780.4
60°	22364.2	22492.0	23451.7	24357.1	26484.4	28899.7	31100.6	31035.6	29560.4	30591.6	28033.2
62.5°	19769.1	20057.2	21660.2	24069.0	29040.5	34280.7	35049.7	34969.5	32562.8	33210.5	30656.6
65°	14167.2	14494.3	16428.7	20048.5	27801.5	40209.7	42176.6	41097.8	36657.0	36431.7	33728.3
67.5°	8173.2	8251.2	9089.5	11996.6	21168.4	40519.4	53048.9	51539.1	43014.9	40086.2	35231.6
70°	6043.8	6041.6	6240.9	7382.5	11455.1	33069.7	58219.7	59573.6	49708.6	41288.4	33106.6
71°	5465.4	5471.9	5695.0	6719.7	9072.2	27680.2	57121.5	60084.9	51471.9	40694.9	31568.5
72.5°	4674.7	4696.4	5006.2	6026.5	7631.6	19088.9	52390.4	57017.5	52308.1	39230.5	29161.9
75°	3546.1	3596.0	4024.9	5079.8	6975.3	9680.9	38450.7	45529.9	46467.9	34616.4	21668.8
77.5°	2530.2	2586.5	3071.7	4271.8	6630.8	7295.9	25750.0	33210.5	34196.2	22184.4	9774.1
80°	1598.7	1665.8	2031.9	3398.8	6230.1	6927.6	16181.8	22323.1	18647.0	7098.8	2486.8
82.5°	938.0	990.0	1260.7	2220.4	5088.5	6672.0	9520.6	12373.5	7256.9	2144.6	1130.8
85°	543.7	567.6	786.3	1414.6	3695.6	6297.2	6994.8	6916.8	3149.7	1048.5	535.1
87.5°	253.4	281.6	465.7	738.7	2051.4	4564.3	5528.2	4776.5	1958.3	491.7	251.3
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°	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2	17230.2
2.5°	17080.8	17043.9	16890.1	16753.7	16610.7	16424.4	16218.6	16192.6	16067.0	16090.8	16047.5
5°	16742.8	16649.7	16279.3	15943.5	15547.1	15191.8	14806.2	14628.6	14373.0	14355.6	14290.7
7.5°	16259.8	16086.5	15512.4	14875.5	14238.7	13632.1	13032.1	12637.8	12234.9	12063.8	12048.6
10°	15716.0	15421.4	14576.6	13634.3	12715.8	11829.8	10972.0	10337.3	9765.4	9494.6	9483.8
12.5°	15200.5	14765.1	13606.1	12323.7	11067.3	9919.2	8742.9	7908.9	7191.9	6951.4	6849.6
15°	14762.9	14149.8	12661.6	11021.8	9496.8	7902.4	6563.7	5686.4	5023.5	4793.9	4750.6
17.5°	14338.3	13549.8	11693.3	9706.9	7863.4	6110.9	4770.0	4118.0	3764.9	3671.8	3669.6
20°	13915.9	12932.4	10681.7	8361.7	6284.2	4570.8	3667.4	3375.0	3255.9	3245.0	3227.7
22.5°	13437.2	12278.2	9618.1	7012.1	4904.4	3593.8	3117.2	3000.2	2985.1	3024.1	3024.1
25°	12988.7	11628.3	8539.3	5690.7	3814.7	2998.1	2783.6	2759.8	2800.9	2870.3	2876.8
27.5°	12570.7	11002.3	7486.5	4516.6	3056.6	2640.6	2551.8	2580.0	2653.6	2733.8	2736.0
30°	12226.2	10410.9	6464.0	3559.1	2582.2	2374.2	2359.0	2415.4	2495.5	2558.3	2573.5
32.5°	11959.8	9906.2	5476.2	2861.6	2272.4	2174.9	2187.9	2235.6	2285.4	2320.0	2343.9
35°	11836.3	9472.9	4564.3	2413.2	2075.3	2021.1	2038.4	2064.4	2086.1	2112.1	2131.6
37.5°	11858.0	9137.2	3749.8	2133.7	1943.1	1915.0	1915.0	1915.0	1915.0	1927.9	1930.1
40°	12059.4	8944.4	3086.9	1956.1	1854.3	1824.0	1800.1	1778.5	1761.1	1769.8	1765.5
42.5°	12575.0	8927.1	2601.6	1843.5	1782.8	1733.0	1685.3	1655.0	1633.3	1642.0	1646.3
45°	13450.2	9143.7	2274.5	1763.3	1715.7	1639.8	1579.2	1546.7	1531.5	1559.7	1564.0
47.5°	14583.1	9615.9	2075.3	1704.8	1652.8	1553.2	1488.2	1457.9	1462.2	1503.4	1514.2
50°	16043.1	10382.8	1979.9	1668.0	1609.5	1479.5	1412.4	1386.4	1399.4	1457.9	1470.9
52.5°	17646.2	11487.5	1990.8	1657.2	1581.4	1425.4	1353.9	1323.6	1345.2	1399.4	1410.2
55°	19496.1	12815.4	2170.6	1672.3	1540.2	1390.7	1306.2	1254.3	1271.6	1321.4	1330.1
57.5°	21551.9	14336.1	2532.3	1668.0	1488.2	1358.2	1256.4	1178.4	1191.4	1221.8	1230.4
60°	23692.1	16173.1	3093.4	1681.0	1464.4	1319.2	1189.3	1091.8	1087.4	1113.4	1117.8
62.5°	26261.3	18298.2	3734.6	1689.7	1479.5	1269.4	1100.4	1005.1	992.1	998.6	1003.0
65°	28908.4	19836.2	3494.1	1655.0	1527.2	1228.3	1022.5	920.6	896.8	892.5	894.7
67.5°	28990.7	18187.7	2450.0	1585.7	1546.7	1206.6	964.0	849.2	810.2	795.0	792.8
70°	25999.2	14775.9	1908.5	1512.0	1468.7	1171.9	909.8	790.7	732.2	708.4	706.2
71°	24539.1	13601.8	1808.8	1475.2	1410.2	1137.3	886.0	764.7	704.0	678.0	673.7
72.5°	22249.4	12193.7	1687.5	1416.7	1297.6	1048.5	840.5	727.9	665.0	634.7	628.2
75°	15967.3	7973.9	1449.2	1262.9	1074.5	836.2	736.5	654.2	600.0	563.2	558.9
77.5°	6152.1	3173.5	1096.1	1050.6	823.2	654.2	606.5	565.4	526.4	489.6	487.4
80°	1902.0	1418.9	799.3	790.7	595.7	487.4	472.2	461.4	446.2	407.3	398.6
82.5°	1016.0	814.5	550.2	511.2	389.9	324.9	342.3	346.6	348.8	307.6	303.3
85°	485.2	431.1	309.8	290.3	227.5	182.0	210.1	227.5	229.6	188.5	175.5
87.5°	231.8	225.3	145.1	110.5	84.5	60.7	73.7	91.0	99.6	71.5	62.8
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)