

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: P320870

Luminaire Tested: **GAN-SA6A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23912 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

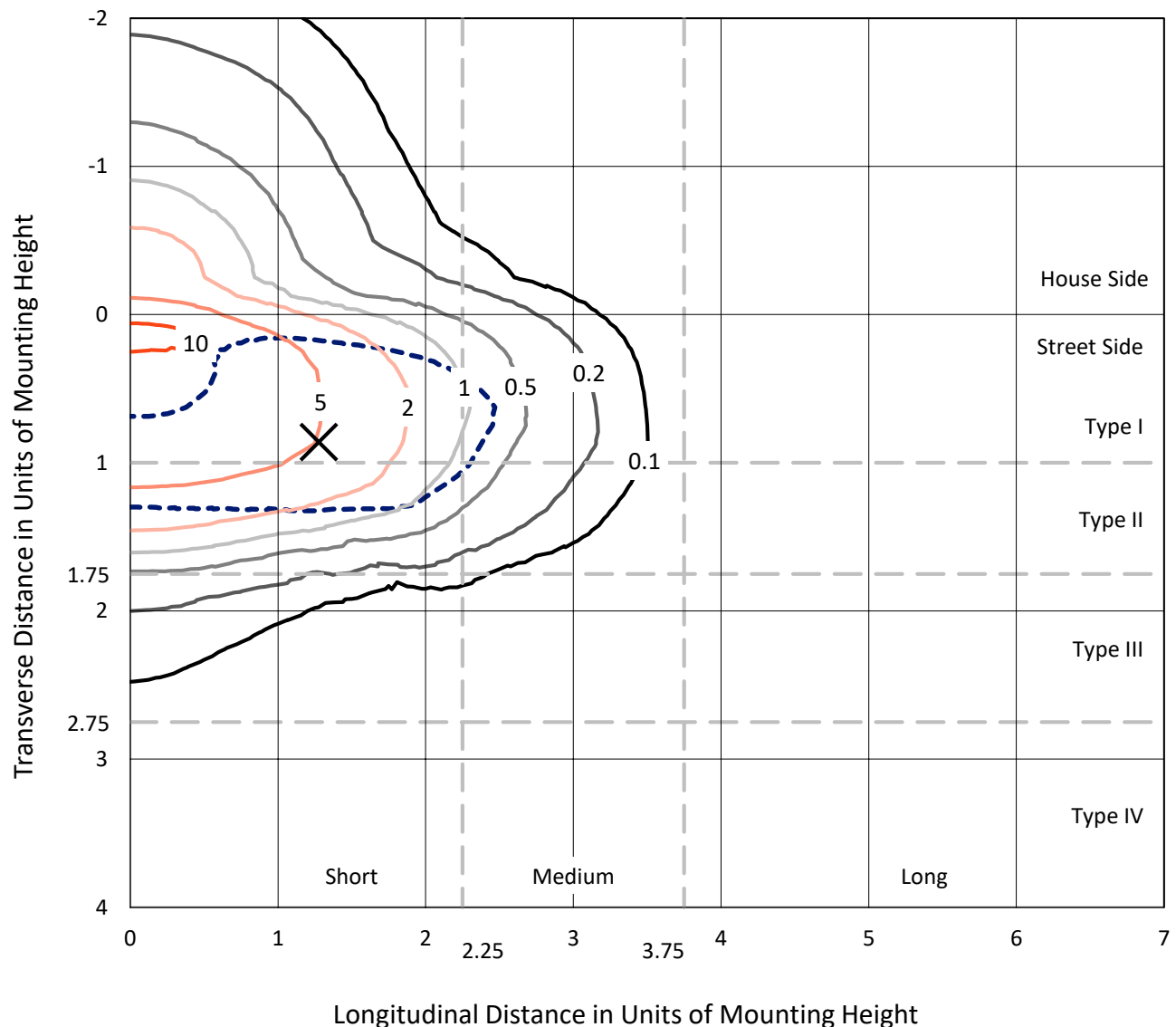
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

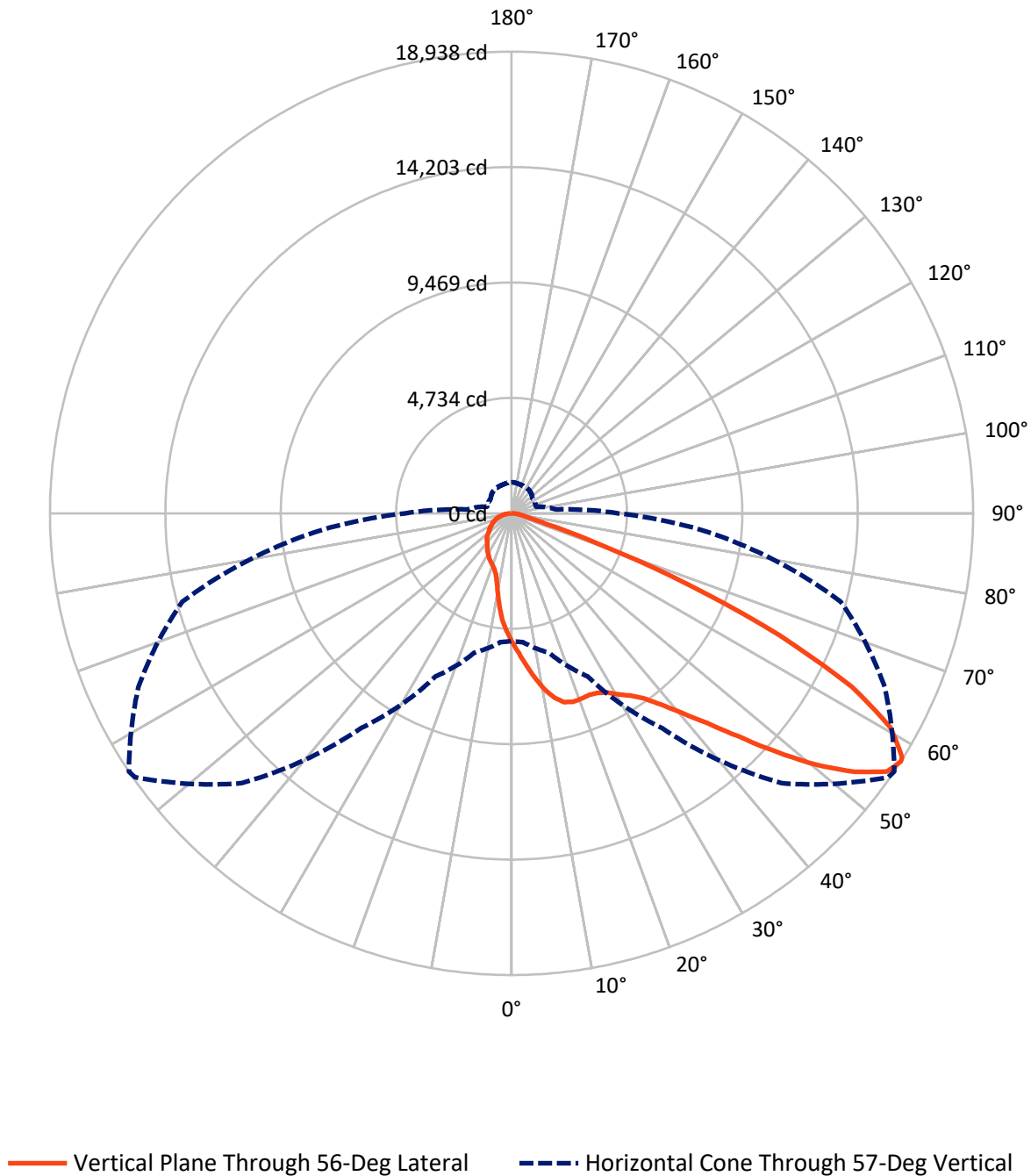
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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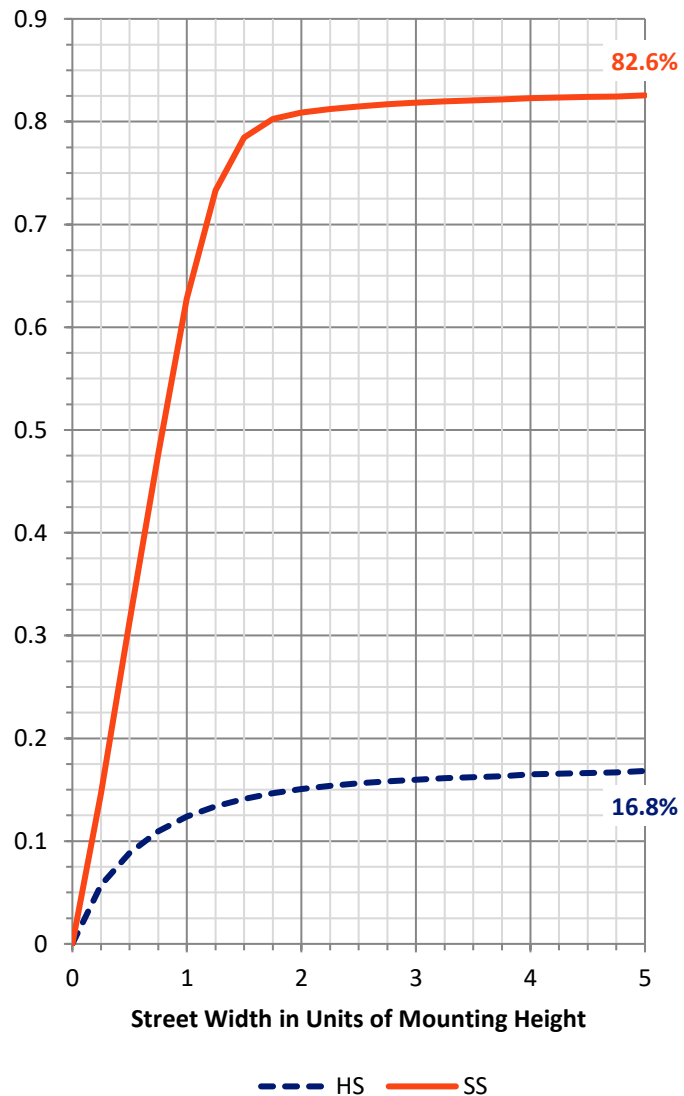
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4121.9	0.0	4121.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	19790.1	0.0	19790.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	23912.0	0.0	23912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	2.1
10°-20°	1432.4	6.0
20°-30°	2333.1	9.8
30°-40°	3487.7	14.6
40°-50°	5290.1	22.1
50°-60°	5929.2	24.8
60°-70°	3502.0	14.6
70°-80°	1147.4	4.8
80°-90°	283.5	1.2
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°	23912.0	100.0
0°-180°	23912.0	100.0

Coefficient of Utilization



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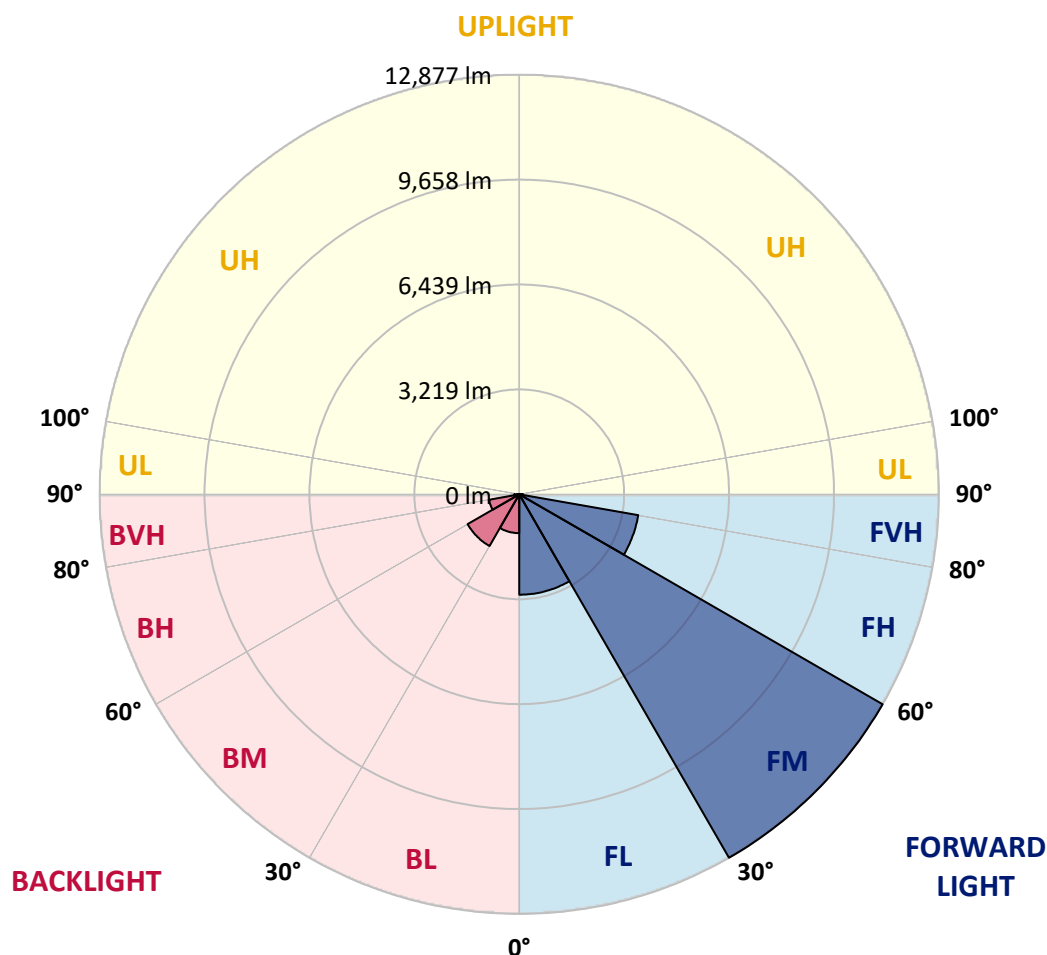
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3080.2	12.9			
FM	(30°-60°)	12877.4	53.9			
FH	(60°-80°)	3707.6	15.5			G2/5000
FVH	(80°-90°)	124.8	0.5			G2/225
BL	(0°-30°)	1191.9	5.0	B3/2500		
BM	(30°-60°)	1829.6	7.7	B2/2500		
BH	(60°-80°)	941.8	3.9	B2/1000		G2/1000
BVH	(80°-90°)	158.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7
2.5°	6090.1	6146.0	6121.4	6035.9	5970.2	5877.3	5773.8	5742.5	5633.2	5510.8	5363.7
5°	7054.1	7026.1	6985.9	6852.7	6712.2	6548.7	6289.0	6247.9	6004.7	5727.7	5435.2
7.5°	7603.0	7600.6	7576.7	7498.7	7370.5	7156.8	6843.7	6795.2	6427.9	5982.5	5528.9
10°	7523.3	7517.6	7557.0	7638.4	7677.0	7632.6	7368.8	7320.3	6869.2	6264.4	5637.3
12.5°	7070.5	7073.8	7137.1	7308.0	7540.6	7820.0	7777.2	7753.4	7326.9	6583.2	5768.8
15°	6718.0	6725.4	6775.5	6924.2	7198.7	7705.7	8025.4	8033.6	7769.8	6934.9	5922.5
17.5°	6563.5	6579.1	6602.1	6706.5	6957.9	7478.1	8084.6	8128.9	8157.7	7299.8	6070.4
20°	6612.8	6627.6	6634.1	6700.7	6907.0	7340.0	8043.5	8123.2	8455.2	7643.3	6218.3
22.5°	6833.8	6842.9	6847.0	6864.2	7024.5	7379.5	8016.4	8100.2	8670.5	7951.4	6330.1
25°	7200.3	7193.8	7167.5	7145.3	7252.9	7535.6	8078.8	8158.5	8845.5	8230.8	6403.2
27.5°	7639.2	7631.0	7580.0	7519.2	7580.8	7778.9	8258.8	8322.1	9002.5	8492.2	6440.2
30°	8165.9	8144.6	8048.4	7976.1	7999.9	8143.7	8555.4	8613.0	9244.9	8788.8	6476.4
32.5°	8774.9	8751.9	8613.0	8493.0	8493.0	8613.0	8861.1	8908.8	9450.4	9124.1	6534.7
35°	9537.5	9508.7	9327.9	9126.6	9069.9	9130.7	9277.8	9311.5	9820.2	9546.5	6640.7
37.5°	10436.5	10397.9	10163.7	9894.1	9770.0	9766.7	9872.7	9941.8	10411.0	10101.2	6820.7
40°	11338.0	11310.8	11106.2	10894.2	10651.0	10572.9	10736.4	10757.8	11183.5	10789.8	7050.8
42.5°	12034.8	12029.9	11992.1	12020.0	11771.0	11613.3	11741.4	11758.7	12126.9	11535.2	7295.7
45°	12403.0	12411.2	12594.4	13000.4	13092.4	12977.4	13040.7	13045.6	13205.0	12287.1	7520.0
47.5°	12108.0	12150.7	12614.2	13522.2	14275.8	14657.9	14552.7	14613.5	14250.3	12933.0	7695.9
50°	10958.3	11010.9	11799.8	13289.7	14828.0	16284.2	16229.1	16215.2	15093.4	13406.4	7791.2
52.5°	9534.2	9575.3	10226.1	12080.8	14422.9	17183.2	17688.6	17616.3	15842.9	13760.5	7809.3
55°	7365.5	7429.6	8053.3	9668.1	12784.3	16839.7	18761.8	18696.9	16525.8	13946.3	7787.9
57°	5236.3	5303.7	5923.3	7378.7	10754.5	15650.6	18868.7	18937.7	16894.8	13977.5	7811.7
57.5°	4672.6	4741.6	5355.5	6768.9	10121.7	15220.8	18776.6	18891.7	16961.3	13972.6	7824.9
60°	2352.7	2379.0	2770.2	3778.5	6398.3	12305.2	17576.0	17872.7	17021.3	13731.0	7881.6
62.5°	1462.8	1443.8	1431.5	1740.5	3112.9	8160.2	15098.4	15669.5	15873.3	13145.9	7744.4
65°	1286.1	1250.7	1115.1	1090.5	1374.8	3963.4	11370.0	12080.8	13420.3	12223.8	7417.3
67.5°	1208.0	1173.5	1020.6	928.6	929.4	1571.2	7059.0	7859.4	10454.6	10664.9	6645.7
70°	1127.5	1096.2	953.3	844.8	791.4	870.3	3247.6	3854.9	6814.9	8382.9	5554.3
72.5°	1023.9	1002.6	867.0	755.2	698.5	651.7	1243.3	1468.5	3945.3	5629.9	3857.4
75°	915.5	895.7	779.9	673.0	604.0	512.8	700.1	754.4	2004.3	2880.3	1899.1
77.5°	796.3	784.8	693.6	595.0	539.9	424.9	495.5	521.8	859.6	1235.1	952.4
80°	633.6	655.8	606.5	530.0	479.1	340.2	350.9	368.2	500.5	603.2	540.7
82.5°	412.5	451.2	475.0	430.6	394.4	267.9	252.3	259.7	326.2	368.2	235.0
85°	171.7	193.1	312.3	281.9	262.1	195.6	169.3	172.6	202.2	209.6	96.1
87.5°	76.4	81.4	137.2	129.0	110.9	67.4	72.3	78.9	107.7	101.9	37.0
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°	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7	5303.7
2.5°	5308.6	5239.6	5121.3	4990.6	4883.8	4798.3	4712.0	4652.9	4583.8	4546.9	4528.0
5°	5312.7	5177.2	4928.2	4672.6	4444.1	4235.4	4036.5	3883.7	3740.7	3663.5	3642.1
7.5°	5330.0	5126.2	4723.5	4302.8	3896.8	3526.2	3240.2	3061.1	2932.1	2874.6	2858.1
10°	5344.0	5066.2	4470.4	3847.5	3295.3	2919.7	2697.9	2597.6	2553.2	2545.8	2538.4
12.5°	5376.8	5004.6	4204.2	3372.5	2827.7	2568.0	2490.8	2484.2	2496.5	2514.6	2514.6
15°	5428.6	4943.8	3900.1	2964.9	2530.2	2439.0	2454.6	2490.8	2524.5	2552.4	2556.5
17.5°	5466.4	4869.0	3573.1	2638.7	2371.6	2396.3	2452.2	2503.1	2537.6	2564.7	2567.2
20°	5493.5	4753.1	3223.8	2389.7	2280.4	2356.8	2426.7	2471.9	2495.7	2522.8	2526.9
22.5°	5479.6	4597.8	2914.0	2211.4	2206.5	2299.3	2365.9	2420.1	2402.0	2375.7	2393.0
25°	5412.2	4384.1	2595.1	2078.3	2128.4	2222.1	2304.2	2268.1	2207.3	2195.8	2202.3
27.5°	5292.2	4111.3	2300.1	1955.0	2038.0	2150.6	2145.6	2109.5	2088.1	2073.3	2082.4
30°	5163.2	3815.5	2042.1	1847.3	1937.7	2030.6	2011.7	2010.9	1989.5	1965.7	1977.2
32.5°	5035.8	3518.0	1837.5	1758.6	1862.1	1874.5	1915.5	1927.9	1886.0	1835.8	1832.5
35°	4924.9	3237.0	1682.2	1678.1	1770.9	1772.6	1832.5	1815.3	1710.9	1659.2	1659.2
37.5°	4841.9	2956.7	1563.8	1605.7	1650.9	1693.7	1724.1	1652.6	1635.3	1606.6	1605.7
40°	4805.7	2710.2	1489.9	1550.7	1566.3	1620.5	1542.5	1570.4	1578.6	1563.8	1563.8
42.5°	4767.9	2495.7	1425.8	1508.8	1506.3	1498.9	1459.5	1495.6	1528.5	1529.3	1526.8
45°	4730.1	2310.8	1369.1	1419.2	1453.7	1374.0	1381.4	1420.0	1466.0	1482.5	1482.5
47.5°	4688.2	2164.5	1317.3	1324.7	1378.1	1324.7	1318.9	1348.5	1402.8	1429.1	1434.8
50°	4596.2	2033.1	1258.1	1241.7	1256.5	1274.6	1279.5	1293.5	1353.5	1395.4	1405.2
52.5°	4468.8	1915.5	1182.5	1165.3	1165.3	1233.5	1256.5	1260.6	1311.5	1361.7	1371.5
55°	4362.8	1840.8	1104.5	1101.2	1097.9	1189.9	1229.4	1235.9	1271.3	1310.7	1315.7
57°	4370.2	1835.0	1044.5	1047.8	1046.9	1145.5	1203.9	1217.9	1235.9	1269.6	1275.4
57.5°	4374.3	1839.1	1031.3	1033.0	1032.1	1133.2	1196.5	1212.1	1226.1	1261.4	1267.2
60°	4435.9	1849.8	977.9	959.8	963.9	1067.5	1154.6	1174.3	1183.3	1230.2	1237.6
62.5°	4344.7	1802.1	935.2	891.6	891.6	998.5	1096.2	1127.5	1141.4	1204.7	1217.0
65°	4080.1	1668.2	885.0	814.4	822.6	929.4	1026.4	1077.3	1098.7	1177.6	1190.7
67.5°	3671.7	1512.9	831.6	745.3	753.6	857.1	954.1	1009.1	1042.8	1148.0	1158.7
70°	3140.0	1323.0	759.3	672.2	682.1	778.2	868.6	931.1	981.2	1120.1	1123.4
72.5°	2314.9	1084.7	658.2	591.7	602.4	686.2	782.3	854.6	922.0	1050.2	1048.6
75°	1376.5	848.1	546.5	510.3	517.7	595.8	704.3	792.2	893.3	1023.1	1038.7
77.5°	834.9	638.5	445.4	427.3	436.4	516.1	648.4	742.1	880.9	964.8	959.8
80°	504.6	456.1	355.8	344.3	353.4	441.3	599.9	704.3	770.0	824.2	824.2
82.5°	263.8	278.6	261.3	252.3	264.6	358.3	545.7	614.7	680.4	584.3	545.7
85°	107.7	145.5	158.6	157.8	165.2	248.2	470.9	525.9	438.8	416.6	426.5
87.5°	36.2	61.6	77.2	66.6	69.9	156.1	326.2	253.9	301.6	210.4	199.7
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)