

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: P321080

Luminaire Tested: **GAN-SA6B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321080
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-SA6B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25776 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249
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

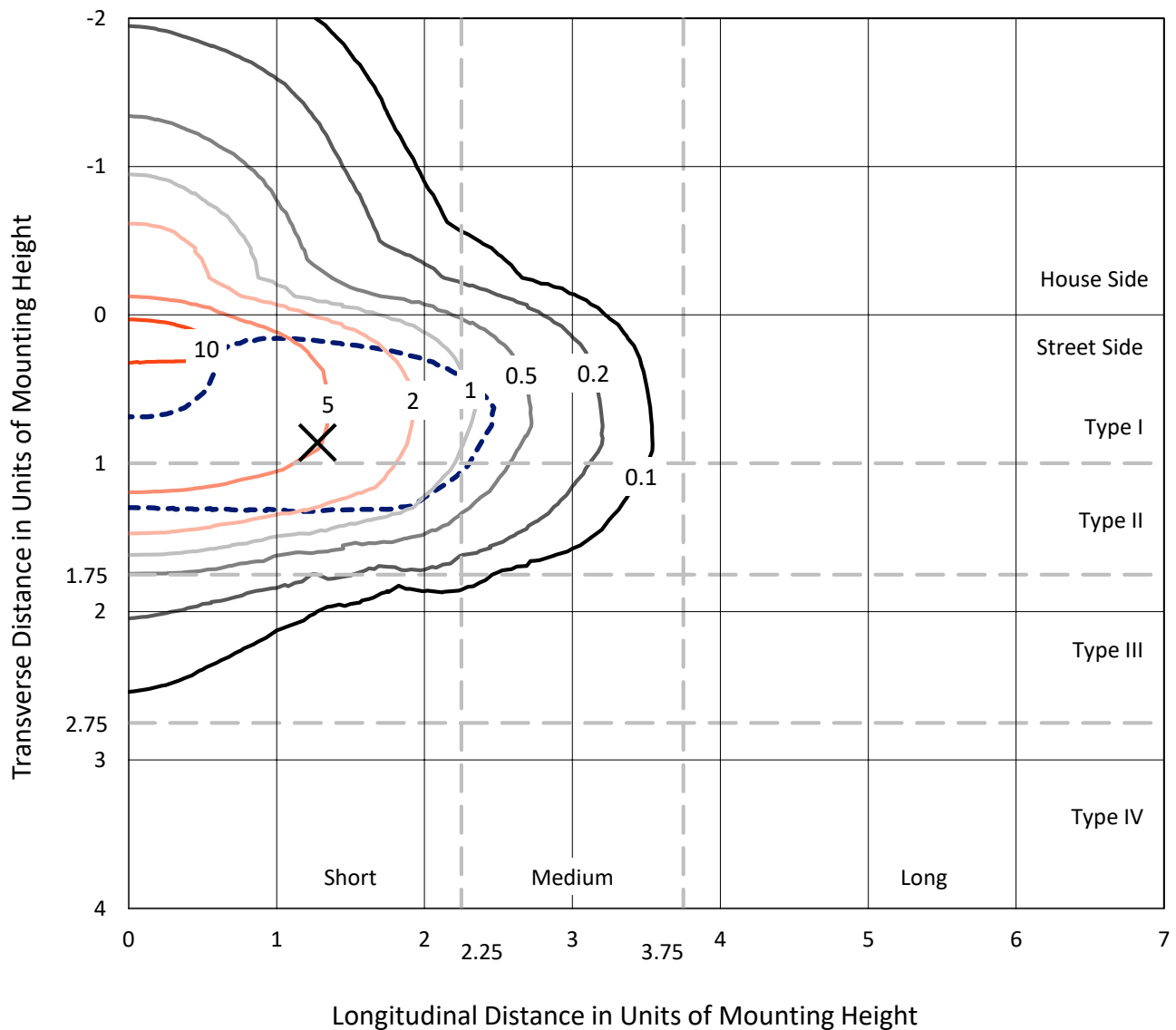


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Iso-Footcandle Lines of Horizontal Illumination

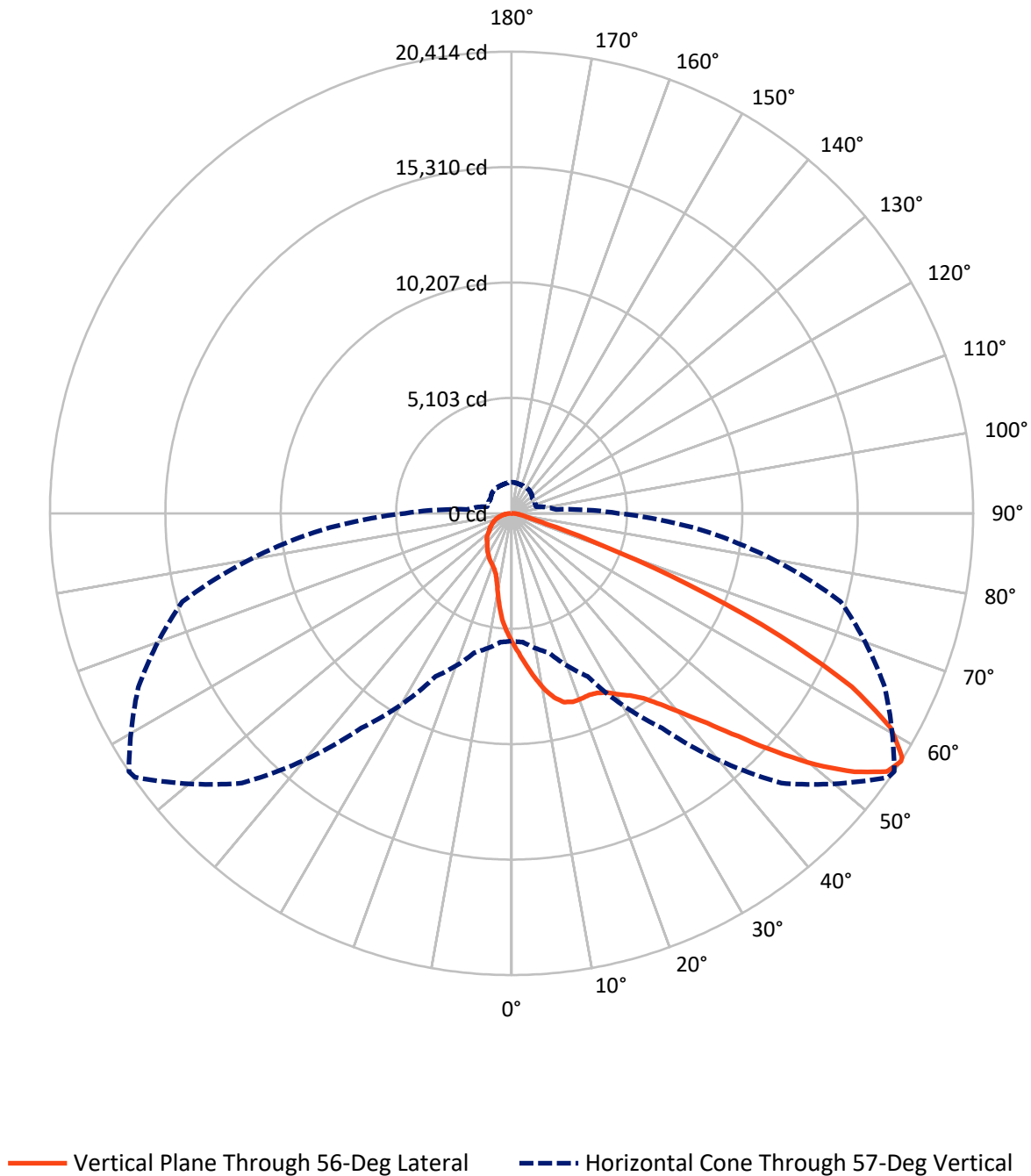
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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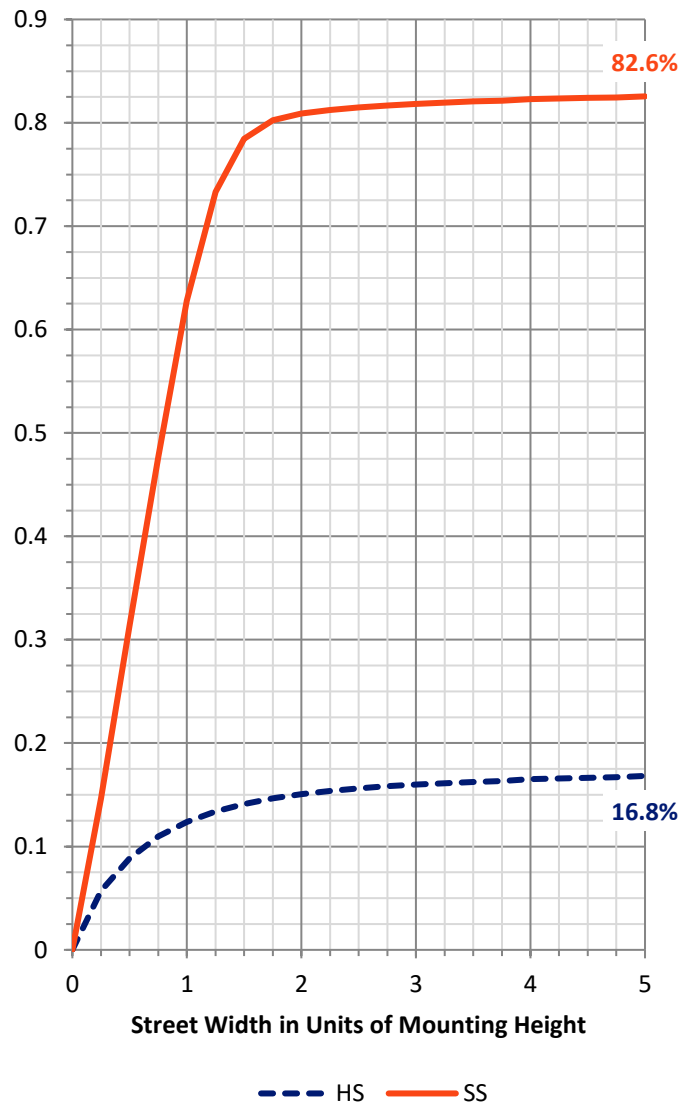
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4443.2	0.0	4443.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	21332.8	0.0	21332.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	25776.0	0.0	25776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	2.1
10°-20°	1544.0	6.0
20°-30°	2514.9	9.8
30°-40°	3759.6	14.6
40°-50°	5702.4	22.1
50°-60°	6391.4	24.8
60°-70°	3775.0	14.6
70°-80°	1236.9	4.8
80°-90°	305.6	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°	25776.0	100.0
0°-180°	25776.0	100.0

Coefficient of Utilization



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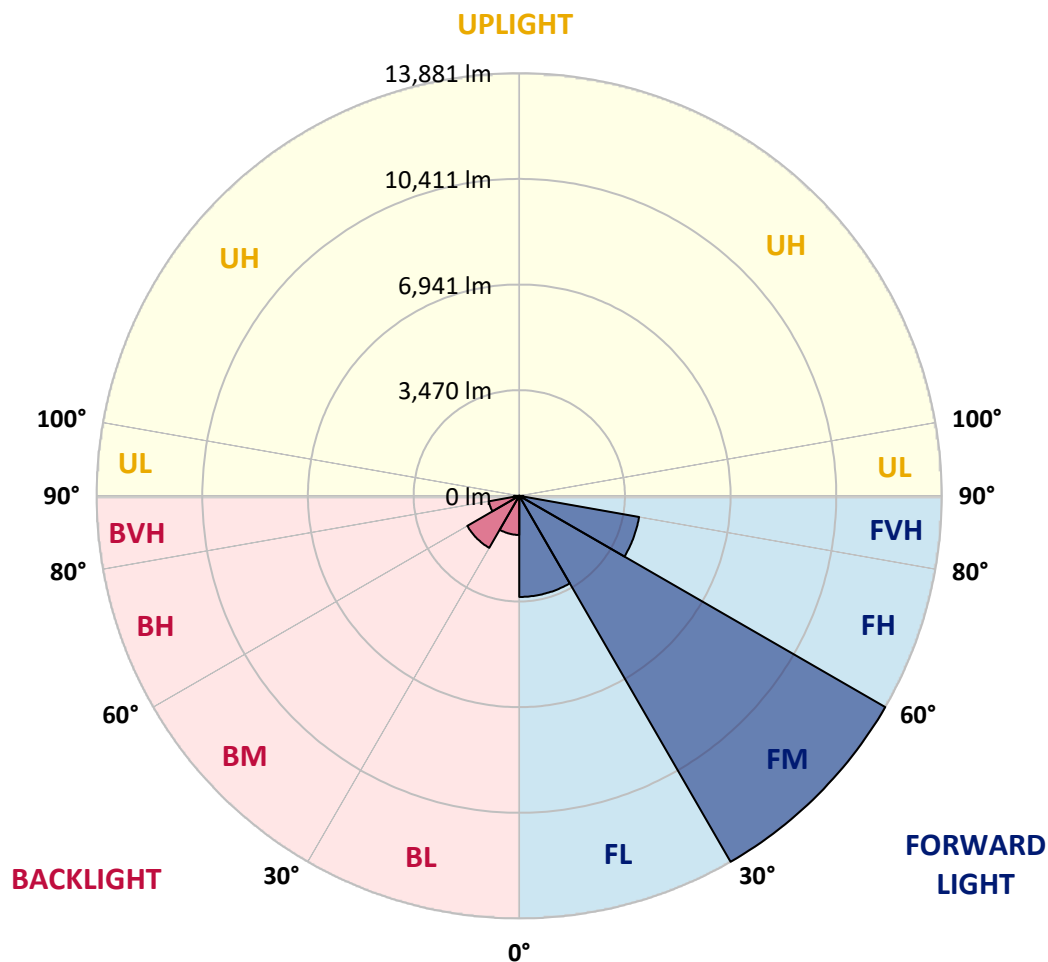
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3320.3	12.9			
FM	(30°-60°)	13881.2	53.9			
FH	(60°-80°)	3996.7	15.5			G2/5000
FVH	(80°-90°)	134.5	0.5			G2/225
BL	(0°-30°)	1284.8	5.0	B3/2500		
BM	(30°-60°)	1972.2	7.7	B2/2500		
BH	(60°-80°)	1015.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	171.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1
2.5°	6564.9	6625.1	6598.5	6506.4	6435.5	6335.4	6223.8	6190.2	6072.4	5940.4	5781.8
5°	7604.0	7573.8	7530.4	7386.9	7235.5	7059.2	6779.2	6735.0	6472.8	6174.2	5858.9
7.5°	8195.7	8193.0	8167.3	8083.2	7945.0	7714.7	7377.2	7324.9	6929.0	6448.8	5959.9
10°	8109.8	8103.6	8146.1	8233.8	8275.4	8227.6	7943.2	7891.0	7404.6	6752.7	6076.8
12.5°	7621.7	7625.2	7693.4	7877.7	8128.4	8429.5	8383.5	8357.8	7898.1	7096.4	6218.5
15°	7241.7	7249.6	7303.7	7464.0	7759.9	8306.4	8651.0	8659.9	8375.5	7475.5	6384.2
17.5°	7075.1	7091.9	7116.8	7229.3	7500.3	8061.0	8714.8	8762.6	8793.6	7868.8	6543.6
20°	7128.3	7144.2	7151.3	7223.0	7445.4	7912.2	8670.5	8756.4	9114.3	8239.1	6703.1
22.5°	7366.6	7376.3	7380.7	7399.3	7572.1	7954.7	8641.3	8731.6	9346.4	8571.3	6823.5
25°	7761.6	7754.5	7726.2	7702.3	7818.3	8123.1	8708.6	8794.5	9535.1	8872.5	6902.4
27.5°	8234.7	8225.8	8170.9	8105.3	8171.8	8385.3	8902.6	8970.8	9704.3	9154.2	6942.2
30°	8802.5	8779.5	8675.8	8597.9	8623.5	8778.6	9222.4	9284.4	9965.6	9473.9	6981.2
32.5°	9458.9	9434.1	9284.4	9155.0	9155.0	9284.4	9551.9	9603.3	10187.0	9835.4	7044.1
35°	10280.9	10249.9	10055.0	9838.0	9776.9	9842.4	10001.0	10037.3	10585.7	10290.7	7158.4
37.5°	11250.0	11208.4	10955.9	10665.4	10531.6	10528.1	10642.3	10716.8	11222.6	10888.6	7352.4
40°	12221.8	12192.6	11972.0	11743.4	11481.2	11397.1	11573.4	11596.4	12055.2	11630.9	7600.4
42.5°	12973.0	12967.7	12926.9	12957.0	12688.6	12518.5	12656.7	12675.3	13072.2	12434.4	7864.4
45°	13369.8	13378.7	13576.2	14013.8	14113.0	13989.0	14057.2	14062.5	14234.4	13244.9	8106.2
47.5°	13051.8	13097.9	13597.5	14576.3	15388.6	15800.5	15687.1	15752.7	15361.2	13941.2	8295.8
50°	11812.5	11869.2	12719.6	14325.6	15983.9	17553.6	17494.2	17479.2	16270.0	14451.4	8398.5
52.5°	10277.4	10321.7	11023.3	13022.6	15547.2	18522.7	19067.5	18989.5	17077.9	14833.2	8418.0
55°	7939.7	8008.8	8681.1	10421.8	13780.8	18152.4	20224.4	20154.4	17814.0	15033.4	8395.0
57°	5644.5	5717.1	6385.1	7953.9	11592.8	16870.6	20339.5	20413.9	18211.8	15067.1	8420.7
57.5°	5036.8	5111.2	5772.9	7296.6	10910.8	16407.3	20240.3	20364.3	18283.5	15061.8	8434.9
60°	2536.1	2564.5	2986.1	4073.0	6897.1	13264.4	18946.1	19265.9	18348.2	14801.3	8496.0
62.5°	1576.8	1556.4	1543.1	1876.2	3355.5	8796.3	16275.3	16891.0	17110.7	14170.6	8348.1
65°	1386.3	1348.2	1202.1	1175.5	1482.0	4272.4	12256.3	13022.6	14466.5	13176.7	7995.5
67.5°	1302.2	1265.0	1100.2	1001.0	1001.9	1693.7	7609.3	8472.1	11269.5	11496.3	7163.7
70°	1215.4	1181.7	1027.6	910.6	853.1	938.1	3500.8	4155.4	7346.2	9036.3	5987.3
72.5°	1103.7	1080.7	934.5	814.1	753.0	702.5	1340.3	1583.0	4252.9	6068.8	4158.1
75°	986.8	965.6	840.7	725.5	651.1	552.8	754.7	813.2	2160.5	3104.8	2047.2
77.5°	858.4	846.0	747.6	641.3	582.0	458.0	534.2	562.5	926.6	1331.4	1026.7
80°	683.0	706.9	653.7	571.4	516.4	366.7	378.2	396.9	539.5	650.2	582.9
82.5°	444.7	486.3	512.0	464.2	425.2	288.8	271.9	279.9	351.7	396.9	253.3
85°	185.1	208.2	336.6	303.8	282.6	210.8	182.5	186.0	217.9	225.9	103.6
87.5°	82.4	87.7	147.9	139.1	119.6	72.6	78.0	85.0	116.0	109.8	39.9
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°	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1	5717.1
2.5°	5722.5	5648.0	5520.5	5379.6	5264.5	5172.4	5079.3	5015.6	4941.2	4901.3	4880.9
5°	5726.9	5580.7	5312.3	5036.8	4790.6	4565.6	4351.2	4186.4	4032.3	3949.0	3926.0
7.5°	5745.5	5525.8	5091.7	4638.2	4200.6	3801.1	3492.8	3299.7	3160.6	3098.6	3080.9
10°	5760.5	5461.1	4818.9	4147.5	3552.2	3147.4	2908.2	2800.1	2752.3	2744.3	2736.3
12.5°	5796.0	5394.7	4531.9	3635.4	3048.1	2768.2	2684.9	2677.9	2691.1	2710.6	2710.6
15°	5851.8	5329.1	4204.1	3196.1	2727.5	2629.1	2646.0	2684.9	2721.3	2751.4	2755.8
17.5°	5892.5	5248.5	3851.6	2844.4	2556.5	2583.1	2643.3	2698.2	2735.4	2764.7	2767.3
20°	5921.8	5123.6	3475.1	2576.0	2458.2	2540.6	2615.9	2664.6	2690.3	2719.5	2723.9
22.5°	5906.7	4956.2	3141.1	2383.8	2378.5	2478.5	2550.3	2608.8	2589.3	2560.9	2579.5
25°	5834.1	4725.9	2797.4	2240.3	2294.3	2395.3	2483.9	2444.9	2379.3	2366.9	2374.0
27.5°	5704.7	4431.8	2479.4	2107.4	2196.9	2318.2	2312.9	2273.9	2250.9	2234.9	2244.7
30°	5565.7	4112.9	2201.3	1991.3	2088.8	2188.9	2168.5	2167.6	2144.6	2118.9	2131.3
32.5°	5428.4	3792.2	1980.7	1895.7	2007.3	2020.6	2064.9	2078.2	2033.0	1978.9	1975.4
35°	5308.8	3489.3	1813.3	1808.9	1909.0	1910.7	1975.4	1956.8	1844.3	1788.5	1788.5
37.5°	5219.3	3187.2	1685.7	1730.9	1779.6	1825.7	1858.5	1781.4	1762.8	1731.8	1730.9
40°	5180.3	2921.5	1606.0	1671.6	1688.4	1746.9	1662.7	1692.8	1701.7	1685.7	1685.7
42.5°	5139.6	2690.3	1536.9	1626.4	1623.7	1615.8	1573.2	1612.2	1647.6	1648.5	1645.9
45°	5098.8	2491.0	1475.8	1529.8	1567.0	1481.1	1489.1	1530.7	1580.3	1598.0	1598.0
47.5°	5053.7	2333.3	1420.0	1428.0	1485.5	1428.0	1421.8	1453.6	1512.1	1540.5	1546.7
50°	4954.4	2191.5	1356.2	1338.5	1354.4	1373.9	1379.2	1394.3	1459.0	1504.1	1514.8
52.5°	4817.1	2064.9	1274.7	1256.1	1256.1	1329.6	1354.4	1358.9	1413.8	1467.8	1478.4
55°	4702.9	1984.3	1190.6	1187.0	1183.5	1282.7	1325.2	1332.3	1370.4	1412.9	1418.2
57°	4710.8	1978.1	1125.9	1129.4	1128.5	1234.8	1297.7	1312.8	1332.3	1368.6	1374.8
57.5°	4715.3	1982.5	1111.7	1113.5	1112.6	1221.6	1289.8	1306.6	1321.7	1359.7	1365.9
60°	4781.7	1994.0	1054.1	1034.6	1039.1	1150.7	1244.6	1265.8	1275.6	1326.1	1334.1
62.5°	4683.4	1942.6	1008.1	961.1	961.1	1076.3	1181.7	1215.4	1230.4	1298.6	1311.9
65°	4398.1	1798.2	954.0	877.9	886.7	1001.9	1106.4	1161.3	1184.4	1269.4	1283.6
67.5°	3957.9	1630.8	896.5	803.4	812.3	923.9	1028.4	1087.8	1124.1	1237.5	1249.0
70°	3384.8	1426.2	818.5	724.6	735.2	838.9	936.3	1003.6	1057.7	1207.4	1210.9
72.5°	2495.4	1169.3	709.5	637.8	649.3	739.7	843.3	921.3	993.9	1132.1	1130.3
75°	1483.8	914.2	589.1	550.1	558.1	642.2	759.2	853.9	962.9	1102.9	1119.7
77.5°	900.0	688.3	480.1	460.6	470.4	556.3	698.9	799.9	949.6	1040.0	1034.6
80°	543.9	491.6	383.6	371.2	380.9	475.7	646.7	759.2	830.0	888.5	888.5
82.5°	284.4	300.3	281.7	271.9	285.2	386.2	588.2	662.6	733.5	629.8	588.2
85°	116.0	156.8	171.0	170.1	178.1	267.5	507.6	566.9	473.0	449.1	459.7
87.5°	39.0	66.4	83.3	71.8	75.3	168.3	351.7	273.7	325.1	226.8	215.3
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)