

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: P317359

Luminaire Tested: **GAN-SA5B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24883 lumens
Efficiency: N/A
Efficacy: 118.5 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): 210
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

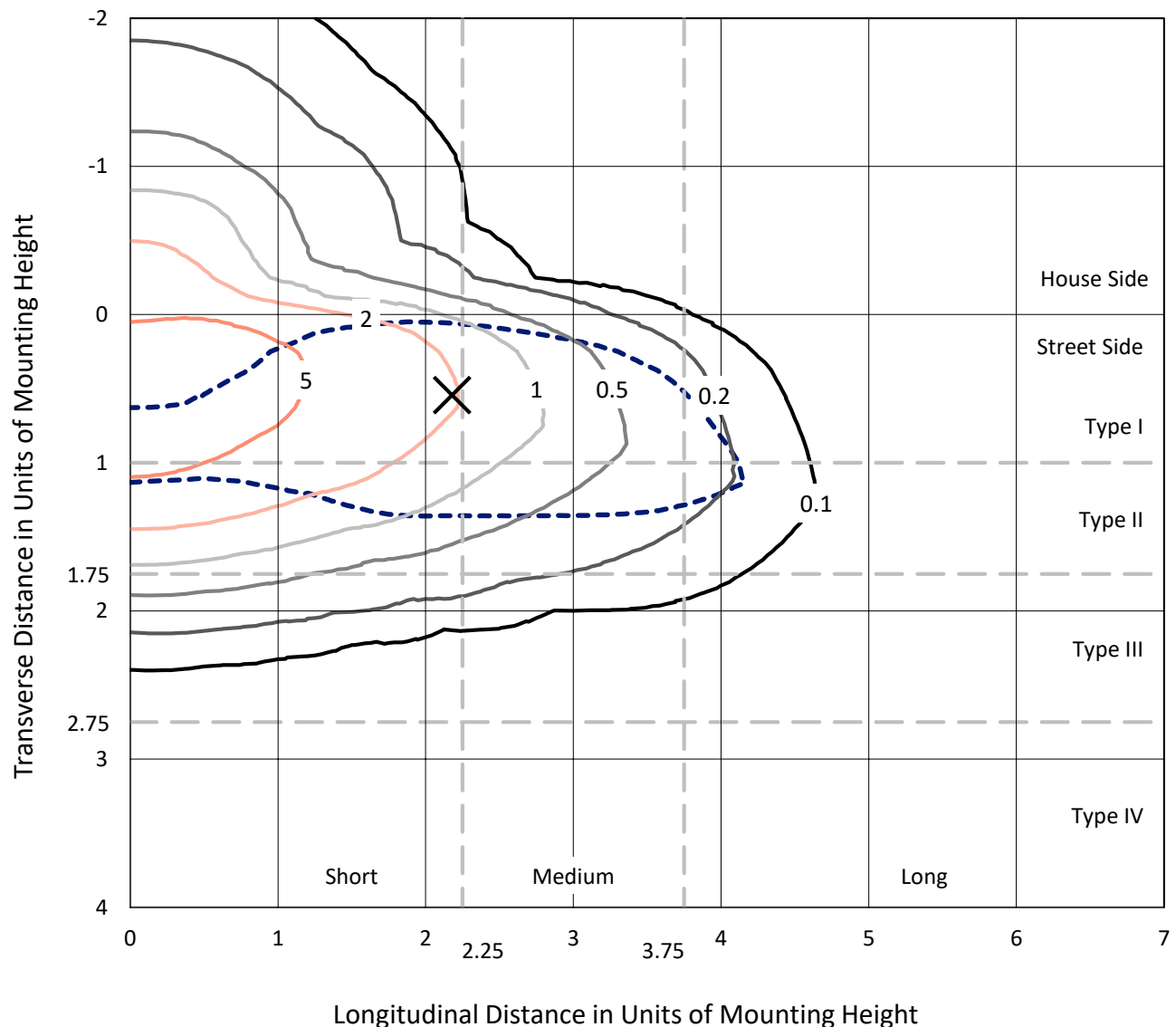


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Iso-Footcandle Lines of Horizontal Illumination

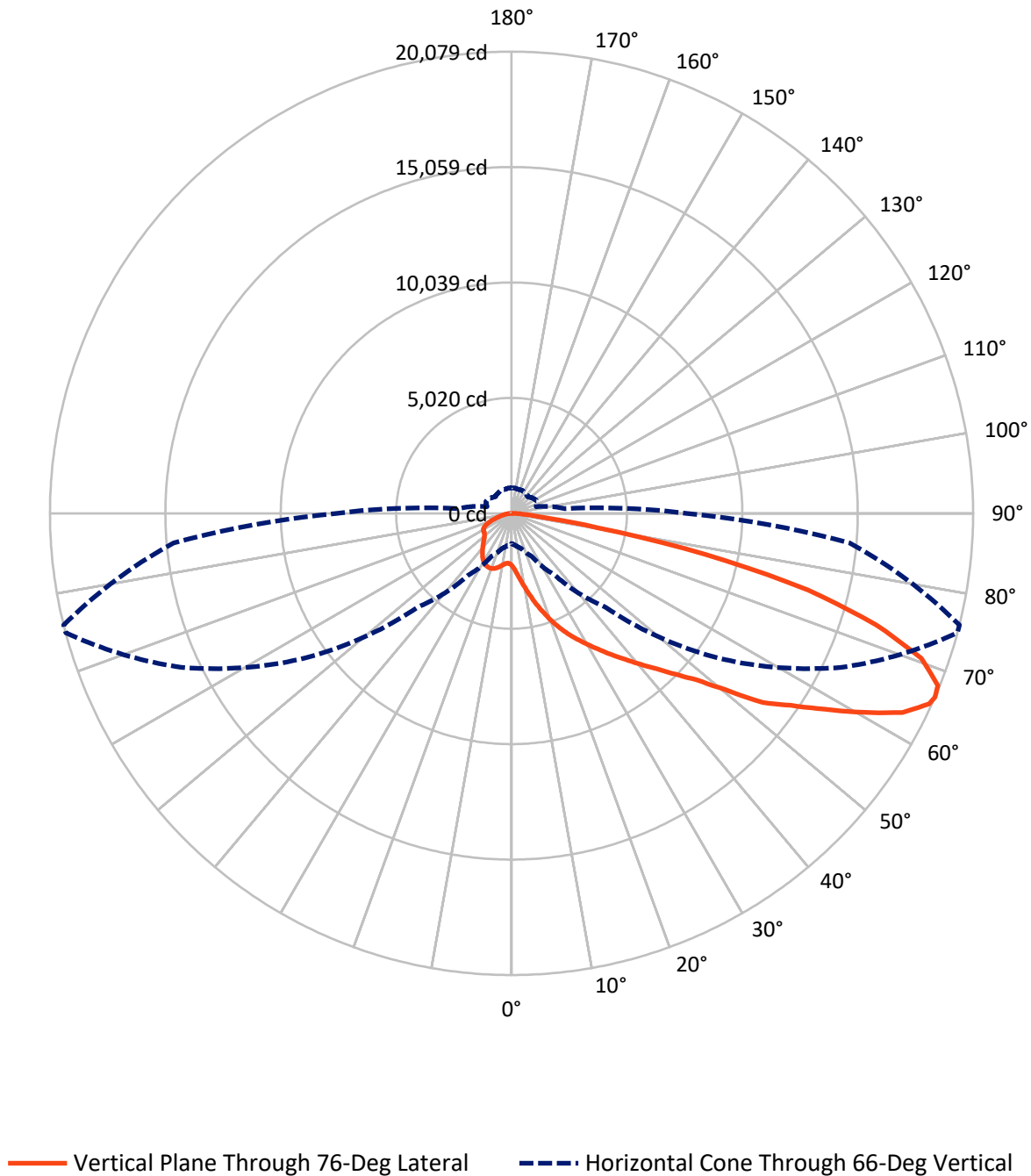
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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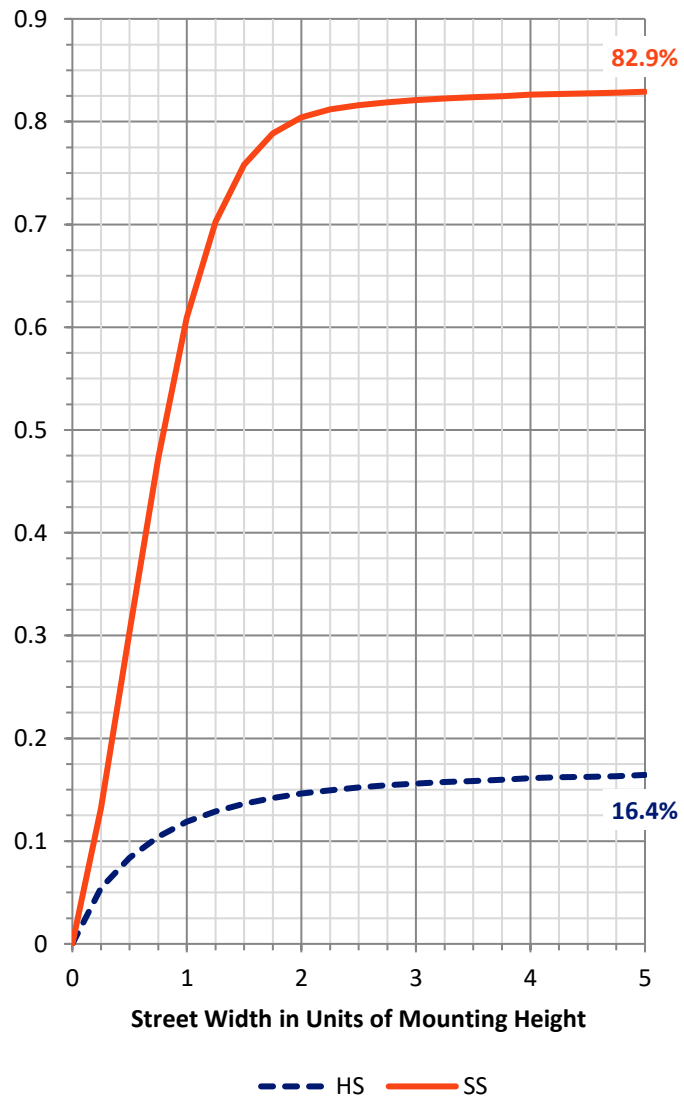
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4187.0	0.0	4187.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20696.0	0.0	20696.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	24883.0	0.0	24883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.1
10°-20°	1085.1	4.4
20°-30°	2108.7	8.5
30°-40°	3441.8	13.8
40°-50°	4702.4	18.9
50°-60°	5477.3	22.0
60°-70°	4910.5	19.7
70°-80°	2481.6	10.0
80°-90°	400.7	1.6
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°	24883.0	100.0
0°-180°	24883.0	100.0

Coefficient of Utilization



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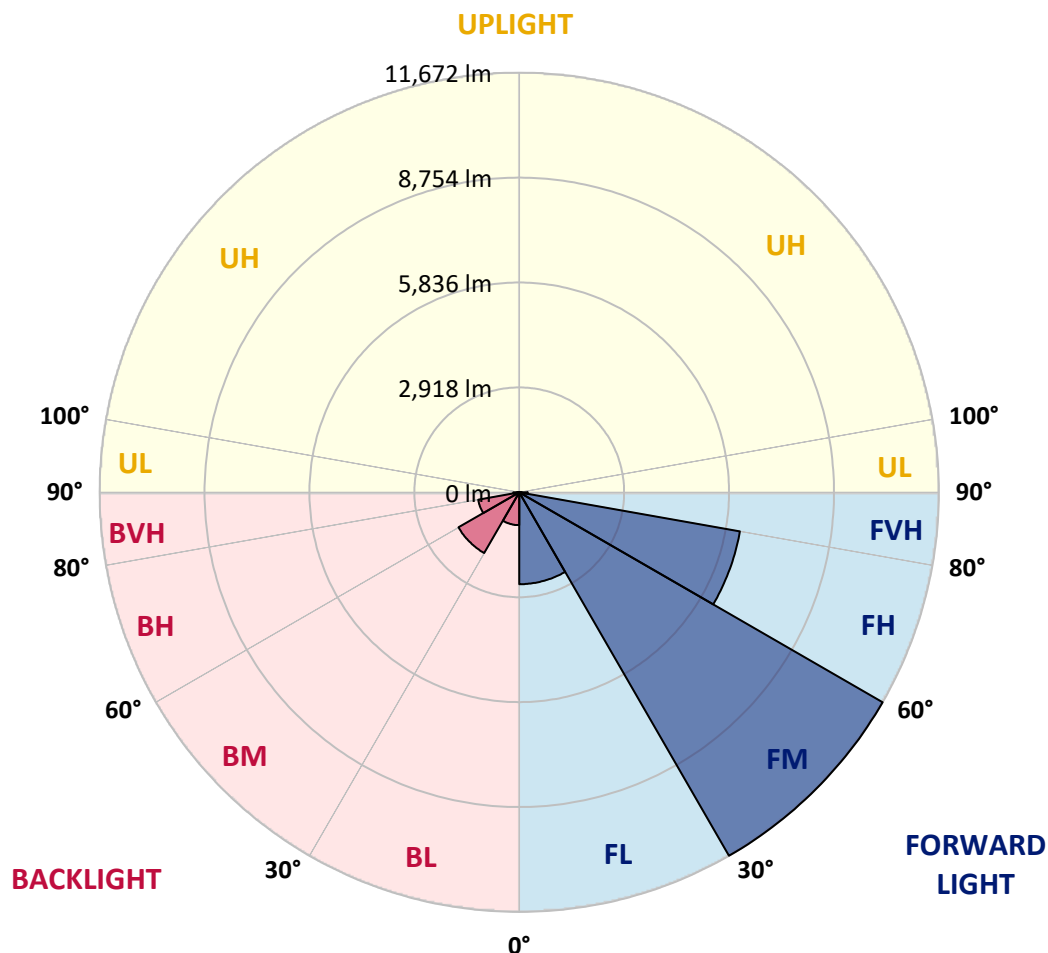
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2555.4	10.3			
FM	(30°-60°)	11671.9	46.9			
FH	(60°-80°)	6232.1	25.0			G3/7500
FVH	(80°-90°)	236.7	1.0			G3/500
BL	(0°-30°)	913.2	3.7	B2/1000		
BM	(30°-60°)	1949.7	7.8	B2/2500		
BH	(60°-80°)	1160.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	164.1	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°	65°	75°	76°	85°
0°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	3016.6	2971.0	2966.8	2900.0	2884.8	2757.3	2663.5	2565.5	2454.0	2432.0	2344.2
5°	3874.9	3870.6	3812.4	3703.4	3618.1	3400.1	3184.7	2956.6	2706.6	2666.0	2468.4
7.5°	4647.0	4640.2	4595.4	4478.0	4354.7	4086.9	3779.4	3429.7	3024.2	2964.2	2636.5
10°	5233.2	5230.7	5215.5	5129.3	5024.6	4767.8	4428.2	3950.9	3393.4	3311.4	2846.8
12.5°	5686.0	5691.1	5701.2	5670.8	5621.0	5402.2	5054.1	4503.4	3787.0	3705.9	3080.8
15°	5992.7	6007.9	6060.2	6103.3	6129.5	5995.2	5658.1	5068.5	4228.0	4130.8	3340.1
17.5°	6147.3	6164.1	6254.5	6384.6	6504.6	6491.1	6223.3	5607.5	4651.2	4557.4	3618.9
20°	6280.7	6293.4	6394.8	6551.0	6763.1	6856.8	6706.5	6126.1	5115.0	5003.5	3914.6
22.5°	6667.6	6683.7	6714.1	6802.8	6990.3	7162.6	7090.0	6616.9	5539.9	5436.0	4195.0
25°	7414.4	7433.8	7367.9	7292.7	7328.2	7448.2	7461.7	7064.6	5970.7	5853.3	4496.6
27.5°	8314.0	8341.9	8229.6	8036.1	7867.2	7820.7	7804.7	7431.3	6382.1	6246.1	4794.8
30°	9195.1	9243.3	9097.1	8846.2	8536.2	8318.3	8156.9	7790.3	6787.6	6657.5	5076.1
32.5°	10055.9	10036.5	9824.4	9579.5	9216.2	8943.4	8553.1	8175.5	7243.7	7094.2	5355.7
35°	10645.5	10652.3	10455.5	10164.9	9818.5	9609.0	9083.6	8591.1	7709.2	7571.5	5673.3
37.5°	11147.3	11116.1	10893.1	10621.9	10323.7	10234.2	9704.5	9049.0	8213.5	8063.1	6011.2
40°	11314.6	11278.3	11132.1	10937.0	10697.9	10690.3	10389.6	9567.6	8783.7	8635.0	6392.2
42.5°	11213.2	11166.8	11106.8	11053.6	10980.1	11013.9	11033.3	10175.9	9410.5	9244.1	6833.2
45°	10839.0	10768.9	10811.1	10926.8	11086.5	11277.4	11614.5	10849.1	10112.5	9973.1	7351.0
47.5°	10263.7	10200.4	10332.1	10579.7	11013.9	11497.1	12164.4	11592.5	10950.5	10812.0	8088.5
50°	9454.4	9473.0	9661.4	10111.7	10768.0	11598.4	12841.9	12576.6	12168.6	12039.4	9094.6
52.5°	8126.5	8129.9	8660.4	9399.5	10332.1	11546.1	13217.8	13834.5	13831.9	13675.7	10052.5
55°	6893.2	6968.3	7388.2	8370.6	9625.9	11336.6	13480.5	14446.1	14924.2	14740.9	10945.4
57.5°	5688.6	5732.5	6130.4	7117.0	8618.1	10778.2	13750.0	15180.2	16182.9	16067.2	12055.4
60°	4318.4	4385.9	4797.3	5708.8	7329.1	9787.3	13775.3	15946.4	17687.4	17570.8	13294.7
62.5°	2802.9	2919.5	3304.7	4158.7	5769.6	8362.2	13187.4	16447.3	19113.3	19071.9	14394.6
65°	1610.9	1698.8	1966.6	2625.5	3980.5	6573.0	11789.3	16254.7	19991.0	19967.4	14805.9
66°	1316.1	1371.0	1576.3	2051.9	3284.4	5772.2	10976.7	15848.4	20078.0	20078.9	14758.6
67.5°	1052.6	1077.1	1169.1	1469.0	2423.6	4575.2	9524.6	14952.1	19969.9	19999.5	14453.7
70°	870.9	883.6	912.3	985.0	1322.9	2759.0	6760.5	12623.1	18884.4	18907.2	13263.4
72.5°	781.4	789.0	800.0	810.1	933.4	1541.7	4129.1	10098.1	16557.1	16586.7	11449.7
75°	707.9	712.1	710.4	711.3	783.1	982.4	2133.8	7539.4	13387.6	13328.5	8771.0
77.5°	621.7	626.0	617.5	619.2	692.7	755.2	1061.9	5278.0	9034.6	8617.3	4941.8
80°	525.4	528.8	525.4	531.3	603.2	570.2	617.5	2969.3	3994.8	3778.6	1757.1
82.5°	397.0	411.4	421.5	445.2	496.7	405.5	413.1	1156.5	1216.4	1158.2	539.0
85°	174.0	212.0	317.6	340.4	373.4	243.3	271.2	471.4	495.0	479.8	196.0
87.5°	45.6	49.8	157.1	197.7	207.0	109.8	141.1	214.6	226.4	214.6	65.0
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°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	2297.7	2256.3	2182.0	2116.1	2066.3	2032.5	1998.7	1981.8	1971.6	1961.5	1963.2
5°	2371.2	2287.6	2160.0	2069.6	2019.0	1986.9	1970.0	1963.2	1959.0	1948.8	1948.8
7.5°	2481.9	2363.6	2187.9	2095.0	2055.3	2030.8	2020.6	2017.3	2012.2	2000.4	2002.1
10°	2621.3	2455.7	2246.2	2155.8	2119.5	2092.4	2078.1	2073.0	2063.7	2050.2	2051.9
12.5°	2785.1	2569.7	2323.1	2228.5	2184.5	2148.2	2124.5	2110.2	2094.1	2076.4	2077.2
15°	2964.2	2693.9	2405.8	2293.5	2233.5	2182.8	2144.8	2120.3	2095.0	2073.0	2072.2
17.5°	3145.9	2813.9	2469.2	2329.0	2247.9	2181.1	2129.6	2091.6	2060.3	2033.3	2030.8
20°	3341.8	2922.0	2504.7	2325.6	2220.8	2141.4	2073.0	2025.7	1991.1	1964.0	1959.8
22.5°	3541.2	3023.4	2510.6	2291.0	2160.9	2063.7	1991.9	1939.5	1904.1	1876.2	1866.1
25°	3723.7	3101.9	2486.1	2224.2	2077.2	1972.5	1902.4	1849.2	1820.4	1787.5	1777.4
27.5°	3890.1	3156.8	2437.1	2138.9	1983.5	1880.4	1814.5	1768.9	1737.7	1712.3	1703.9
30°	4039.6	3186.4	2356.9	2037.5	1887.2	1793.4	1737.7	1706.4	1679.4	1647.3	1641.4
32.5°	4181.5	3186.4	2253.8	1926.9	1791.7	1716.5	1683.6	1664.2	1633.7	1602.5	1594.0
35°	4323.4	3167.0	2132.2	1811.1	1703.9	1661.6	1659.9	1637.1	1590.7	1548.4	1537.4
37.5°	4473.0	3127.3	1995.3	1703.0	1632.1	1637.1	1651.5	1600.8	1534.9	1474.9	1458.9
40°	4641.9	3072.4	1853.4	1609.2	1572.1	1626.1	1628.7	1548.4	1420.0	1365.1	1350.8
42.5°	4840.4	3017.4	1721.6	1526.5	1524.8	1593.2	1585.6	1435.2	1358.4	1330.5	1322.9
45°	5101.4	2986.2	1596.6	1447.9	1487.6	1540.0	1512.1	1372.7	1340.6	1324.6	1317.8
47.5°	5512.8	3002.2	1481.7	1385.4	1450.4	1486.8	1375.3	1347.4	1324.6	1305.1	1298.4
50°	6028.1	2993.0	1388.8	1342.3	1408.2	1431.0	1313.6	1314.4	1302.6	1280.6	1270.5
52.5°	6415.9	2920.3	1328.8	1317.8	1371.0	1332.2	1274.7	1282.3	1276.4	1244.3	1233.3
55°	6790.1	2857.8	1298.4	1308.5	1344.0	1208.8	1229.1	1247.7	1241.8	1210.5	1205.5
57.5°	7255.6	2846.0	1279.8	1311.1	1321.2	1147.2	1185.2	1209.7	1205.5	1191.9	1189.4
60°	7825.8	2849.3	1262.9	1315.3	1295.8	1101.6	1143.8	1175.0	1177.6	1175.0	1173.4
62.5°	8139.2	2757.3	1220.7	1303.5	1251.1	1061.9	1100.7	1146.3	1147.2	1152.2	1151.4
65°	7873.1	2481.9	1142.1	1262.1	1175.9	1028.9	1063.5	1113.4	1100.7	1123.5	1123.5
66°	7614.6	2323.1	1103.2	1235.0	1143.8	1016.2	1051.7	1096.5	1080.4	1111.7	1111.7
67.5°	7086.6	2055.3	1033.1	1177.6	1098.2	998.5	1038.2	1068.6	1046.6	1093.1	1089.7
70°	6121.9	1589.8	892.1	1047.5	1023.0	972.3	1019.6	1012.9	980.8	1051.7	1038.2
72.5°	5161.4	1208.0	716.3	876.9	909.0	939.4	993.4	941.9	901.3	951.2	921.6
75°	4005.0	908.1	566.0	681.7	767.9	887.8	962.2	860.0	801.7	796.6	780.5
77.5°	2165.1	623.4	448.6	520.4	609.9	823.6	941.1	772.1	684.2	664.0	651.3
80°	857.4	405.5	326.1	394.5	426.6	730.7	890.4	669.9	564.3	544.0	524.6
82.5°	354.0	239.9	210.3	264.4	277.9	625.1	799.1	549.1	435.9	603.2	640.3
85°	152.1	131.8	125.0	136.8	157.1	438.4	636.1	419.0	470.5	419.8	333.7
87.5°	45.6	55.8	53.2	52.4	57.4	104.7	338.7	233.2	345.5	130.9	98.0
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)