

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: P320890

Luminaire Tested: **GAN-SA6C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320890
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-SA6C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36296 lumens
Efficiency: N/A
Efficacy: 109.0 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): 333
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

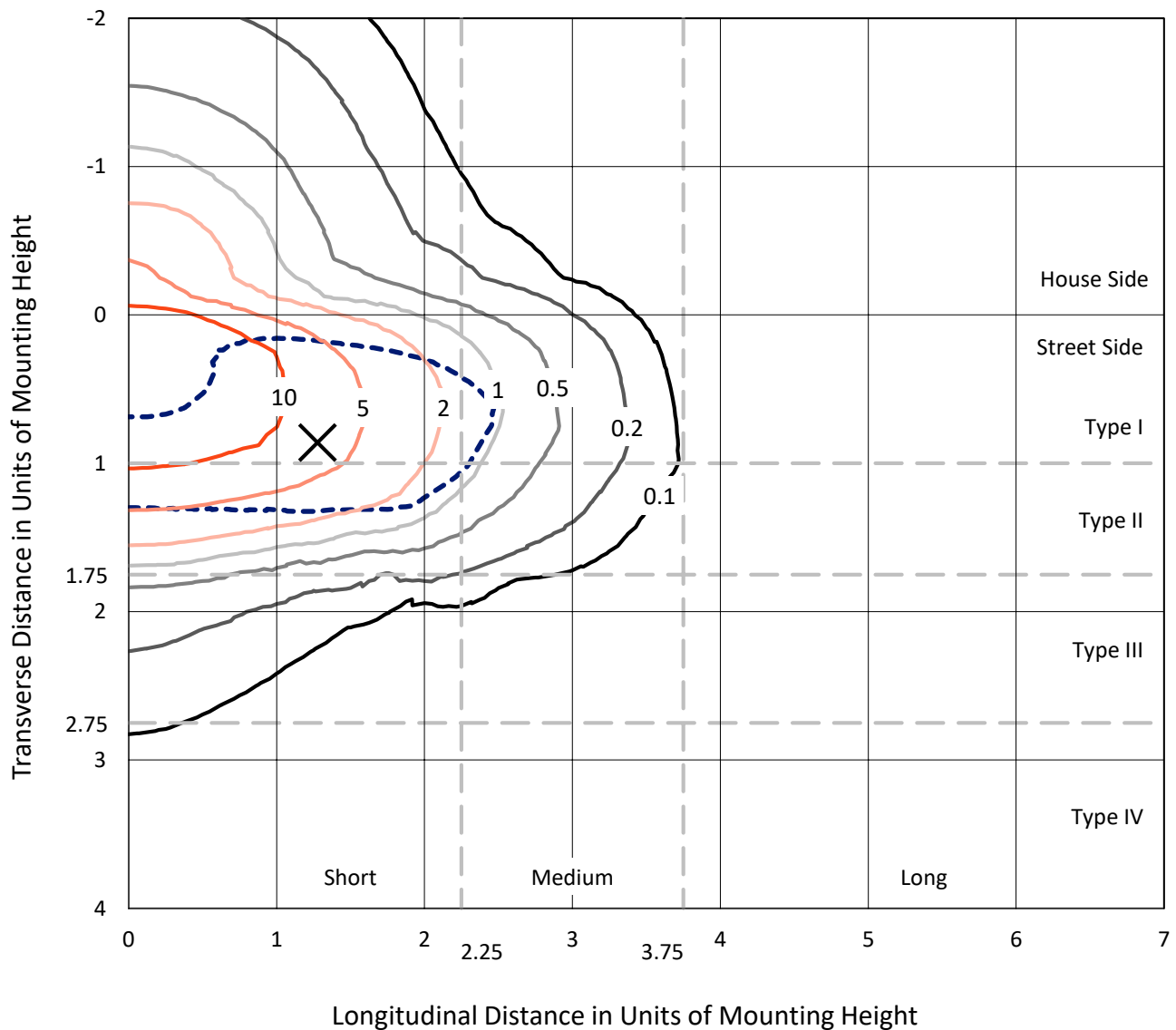


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Iso-Footcandle Lines of Horizontal Illumination

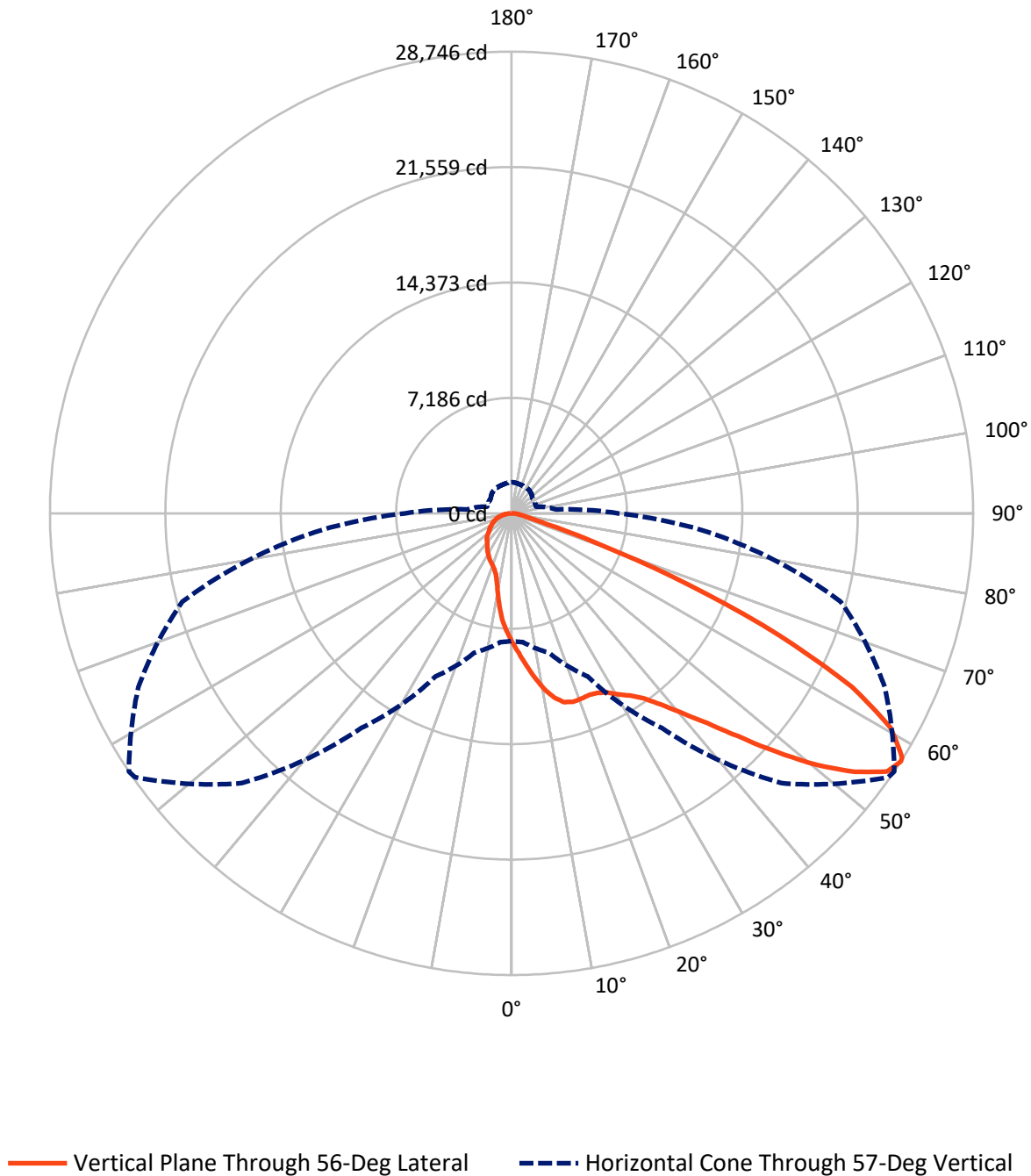
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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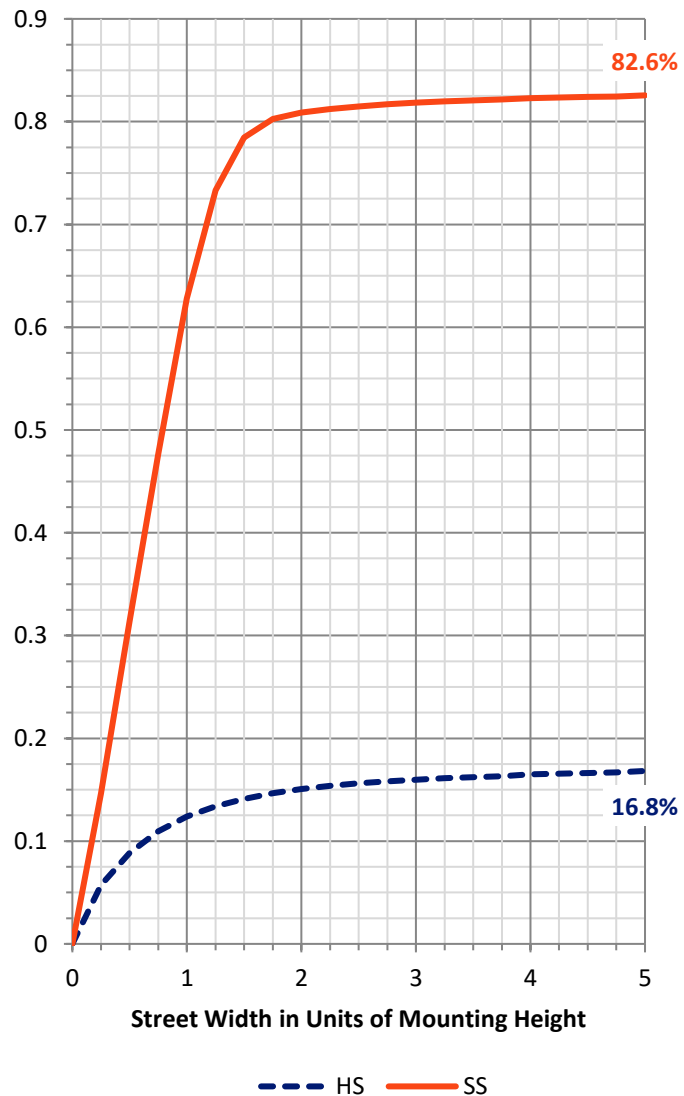
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6256.7	0.0	6256.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	30039.3	0.0	30039.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	36296.0	0.0	36296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.0	2.1
10°-20°	2174.2	6.0
20°-30°	3541.4	9.8
30°-40°	5293.9	14.6
40°-50°	8029.8	22.1
50°-60°	9000.0	24.8
60°-70°	5315.7	14.6
70°-80°	1741.6	4.8
80°-90°	430.3	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°	36296.0	100.0
0°-180°	36296.0	100.0

Coefficient of Utilization



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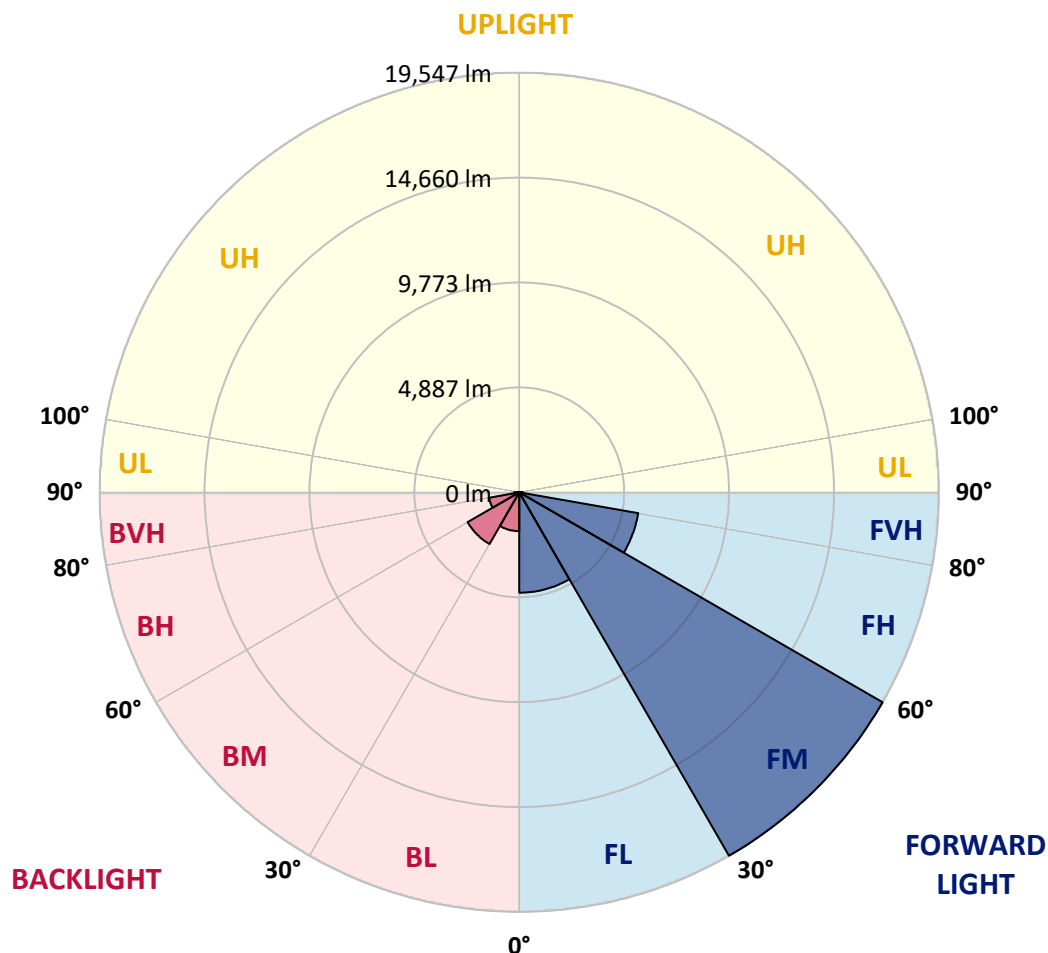
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4675.5	12.9			
FM	(30°-60°)	19546.6	53.9			
FH	(60°-80°)	5627.8	15.5			G3/7500
FVH	(80°-90°)	189.5	0.5			G2/225
BL	(0°-30°)	1809.1	5.0	B3/2500		
BM	(30°-60°)	2777.1	7.7	B3/5000		
BH	(60°-80°)	1429.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	240.8	0.7			G3/500
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°	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5
2.5°	9244.2	9329.0	9291.6	9161.9	9062.1	8921.1	8764.0	8716.6	8550.7	8364.8	8141.5
5°	10707.4	10665.0	10603.8	10401.8	10188.5	9940.2	9546.1	9483.7	9114.5	8694.1	8250.1
7.5°	11540.6	11536.9	11500.7	11382.2	11187.6	10863.3	10388.0	10314.5	9756.9	9080.8	8392.3
10°	11419.6	11410.9	11470.8	11594.2	11652.9	11585.5	11185.1	11111.5	10426.7	9508.7	8556.9
12.5°	10732.3	10737.3	10833.4	11092.8	11445.8	11869.9	11805.1	11768.9	11121.5	9992.6	8756.5
15°	10197.2	10208.4	10284.5	10510.3	10926.9	11696.5	12181.8	12194.2	11793.8	10526.5	8989.8
17.5°	9962.7	9986.4	10021.3	10179.7	10561.4	11351.0	12271.6	12338.9	12382.6	11080.3	9214.3
20°	10037.5	10060.0	10070.0	10171.0	10484.1	11141.5	12209.2	12330.2	12834.1	11601.7	9438.8
22.5°	10373.1	10386.8	10393.0	10419.2	10662.5	11201.3	12168.0	12295.3	13160.9	12069.5	9608.4
25°	10929.4	10919.4	10879.5	10845.8	11009.2	11438.3	12262.8	12383.8	13426.6	12493.6	9719.5
27.5°	11595.5	11583.0	11505.7	11413.4	11506.9	11807.5	12536.0	12632.1	13664.9	12890.3	9775.6
30°	12395.1	12362.6	12216.7	12106.9	12143.1	12361.4	12986.3	13073.6	14032.8	13340.6	9830.5
32.5°	13319.4	13284.4	13073.6	12891.5	12891.5	13073.6	13450.3	13522.7	14344.7	13849.5	9919.0
35°	14476.9	14433.2	14158.8	13853.2	13767.2	13859.5	14082.7	14133.9	14906.0	14490.6	10079.9
37.5°	15841.5	15782.9	15427.4	15018.3	14829.9	14824.9	14985.8	15090.6	15802.9	15332.6	10353.1
40°	17209.9	17168.7	16858.1	16536.3	16167.1	16048.6	16296.8	16329.2	16975.4	16377.9	10702.4
42.5°	18267.6	18260.2	18202.8	18245.2	17867.2	17627.7	17822.3	17848.5	18407.3	17509.2	11074.1
45°	18826.5	18838.9	19117.1	19733.3	19873.0	19698.4	19794.4	19801.9	20043.9	18650.6	11414.6
47.5°	18378.7	18443.5	19147.0	20525.4	21669.2	22249.2	22089.6	22181.9	21630.5	19631.0	11681.6
50°	16633.6	16713.4	17910.9	20172.4	22507.4	24717.8	24634.2	24613.0	22910.3	20349.5	11826.3
52.5°	14471.9	14534.3	15522.2	18337.5	21892.5	26082.4	26849.5	26739.7	24047.9	20887.1	11853.7
55°	11180.1	11277.4	12224.2	14675.2	19405.2	25561.0	28478.6	28380.0	25084.5	21169.0	11821.3
57°	7948.2	8050.5	8991.0	11200.1	16324.2	23756.0	28640.7	28745.5	25644.6	21216.4	11857.4
57.5°	7092.5	7197.3	8129.1	10274.5	15363.8	23103.7	28501.0	28675.6	25745.6	21208.9	11877.4
60°	3571.2	3611.1	4204.9	5735.4	9712.0	18678.0	26678.6	27128.9	25836.6	20842.2	11963.5
62.5°	2220.3	2191.6	2172.9	2641.9	4725.0	12386.3	22917.8	23784.7	24094.1	19954.1	11755.2
65°	1952.1	1898.5	1692.7	1655.3	2086.8	6016.0	17258.5	18337.5	20370.7	18554.5	11258.7
67.5°	1833.6	1781.2	1549.2	1409.5	1410.8	2385.0	10714.9	11929.8	15869.0	16188.3	10087.4
70°	1711.4	1664.0	1446.9	1282.3	1201.2	1321.0	4929.6	5851.4	10344.4	12724.4	8430.9
72.5°	1554.2	1521.8	1316.0	1146.3	1060.3	989.2	1887.3	2229.0	5988.6	8545.7	5855.1
75°	1389.6	1359.6	1183.7	1021.6	916.8	778.4	1062.8	1145.1	3042.3	4372.0	2882.7
77.5°	1208.7	1191.2	1052.8	903.1	819.5	644.9	752.2	792.1	1304.7	1874.8	1445.7
80°	961.7	995.4	920.6	804.5	727.2	516.4	532.6	558.8	759.6	915.6	820.8
82.5°	626.2	684.8	721.0	653.6	598.7	406.6	382.9	394.2	495.2	558.8	356.7
85°	260.7	293.1	474.0	427.8	397.9	296.9	257.0	261.9	306.9	318.1	145.9
87.5°	116.0	123.5	208.3	195.8	168.4	102.3	109.8	119.7	163.4	154.7	56.1
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°	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5	8050.5
2.5°	8058.0	7953.2	7773.6	7575.2	7413.1	7283.4	7152.4	7062.6	6957.8	6901.7	6873.0
5°	8064.2	7858.4	7480.4	7092.5	6745.7	6428.9	6127.1	5895.0	5678.0	5560.7	5528.3
7.5°	8090.4	7781.1	7169.8	6531.2	5915.0	5352.4	4918.4	4646.4	4450.6	4363.3	4338.3
10°	8111.6	7690.0	6785.7	5840.2	5001.9	4431.9	4095.1	3942.9	3875.6	3864.3	3853.1
12.5°	8161.5	7596.4	6381.5	5119.2	4292.2	3898.0	3780.8	3770.8	3789.5	3816.9	3816.9
15°	8240.1	7504.1	5920.0	4500.5	3840.6	3702.2	3725.9	3780.8	3831.9	3874.3	3880.5
17.5°	8297.5	7390.6	5423.5	4005.3	3599.9	3637.3	3722.1	3799.5	3851.9	3893.0	3896.8
20°	8338.6	7214.8	4893.4	3627.3	3461.4	3577.4	3683.5	3752.1	3788.2	3829.4	3835.6
22.5°	8317.4	6979.0	4423.2	3356.7	3349.2	3490.1	3591.2	3673.5	3646.0	3606.1	3632.3
25°	8215.1	6654.7	3939.2	3154.6	3230.7	3372.9	3497.6	3442.7	3350.4	3333.0	3342.9
27.5°	8033.0	6240.6	3491.4	2967.5	3093.5	3264.4	3256.9	3202.0	3169.6	3147.1	3160.8
30°	7837.2	5791.5	3099.7	2804.1	2941.3	3082.2	3053.5	3052.3	3019.9	2983.7	3001.2
32.5°	7643.8	5340.0	2789.1	2669.4	2826.5	2845.2	2907.6	2926.3	2862.7	2786.6	2781.6
35°	7475.5	4913.4	2553.4	2547.1	2688.1	2690.6	2781.6	2755.4	2597.0	2518.4	2518.4
37.5°	7349.5	4488.0	2373.7	2437.3	2506.0	2570.8	2617.0	2508.4	2482.3	2438.6	2437.3
40°	7294.6	4113.8	2261.5	2353.8	2377.5	2459.8	2341.3	2383.7	2396.2	2373.7	2373.7
42.5°	7237.2	3788.2	2164.2	2290.2	2286.4	2275.2	2215.3	2270.2	2320.1	2321.3	2317.6
45°	7179.8	3507.6	2078.1	2154.2	2206.6	2085.6	2096.8	2155.4	2225.3	2250.2	2250.2
47.5°	7116.2	3285.6	1999.5	2010.8	2091.8	2010.8	2002.0	2046.9	2129.2	2169.2	2177.9
50°	6976.5	3086.0	1909.7	1884.8	1907.2	1934.7	1942.1	1963.4	2054.4	2118.0	2133.0
52.5°	6783.2	2907.6	1795.0	1768.8	1768.8	1872.3	1907.2	1913.5	1990.8	2066.9	2081.9
55°	6622.3	2794.1	1676.5	1671.5	1666.5	1806.2	1866.1	1876.0	1929.7	1989.5	1997.0
57°	6633.5	2785.4	1585.4	1590.4	1589.1	1738.8	1827.4	1848.6	1876.0	1927.2	1935.9
57.5°	6639.7	2791.6	1565.4	1567.9	1566.7	1720.1	1816.2	1839.9	1861.1	1914.7	1923.4
60°	6733.3	2807.8	1484.4	1456.9	1463.2	1620.3	1752.5	1782.5	1796.2	1867.3	1878.5
62.5°	6594.8	2735.5	1419.5	1353.4	1353.4	1515.5	1664.0	1711.4	1732.6	1828.6	1847.3
65°	6193.2	2532.1	1343.4	1236.1	1248.6	1410.8	1558.0	1635.3	1667.7	1787.5	1807.4
67.5°	5573.2	2296.4	1262.3	1131.4	1143.8	1301.0	1448.2	1531.8	1582.9	1742.6	1758.8
70°	4766.2	2008.3	1152.6	1020.3	1035.3	1181.3	1318.5	1413.3	1489.4	1700.2	1705.1
72.5°	3513.8	1646.5	999.1	898.1	914.3	1041.5	1187.5	1297.3	1399.5	1594.1	1591.6
75°	2089.3	1287.3	829.5	774.6	785.8	904.3	1069.0	1202.5	1355.9	1553.0	1576.7
77.5°	1267.3	969.2	676.1	648.6	662.4	783.3	984.2	1126.4	1337.2	1464.4	1456.9
80°	765.9	692.3	540.1	522.6	536.4	669.8	910.6	1069.0	1168.8	1251.1	1251.1
82.5°	400.4	422.9	396.7	382.9	401.7	543.9	828.2	933.0	1032.8	886.9	828.2
85°	163.4	220.8	240.7	239.5	250.7	376.7	714.7	798.3	666.1	632.4	647.4
87.5°	54.9	93.6	117.3	101.0	106.0	237.0	495.2	385.4	457.8	319.3	303.1
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)