

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: P320873

Luminaire Tested: **GAN-SA9A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320873
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-SA9A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35743 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 290
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

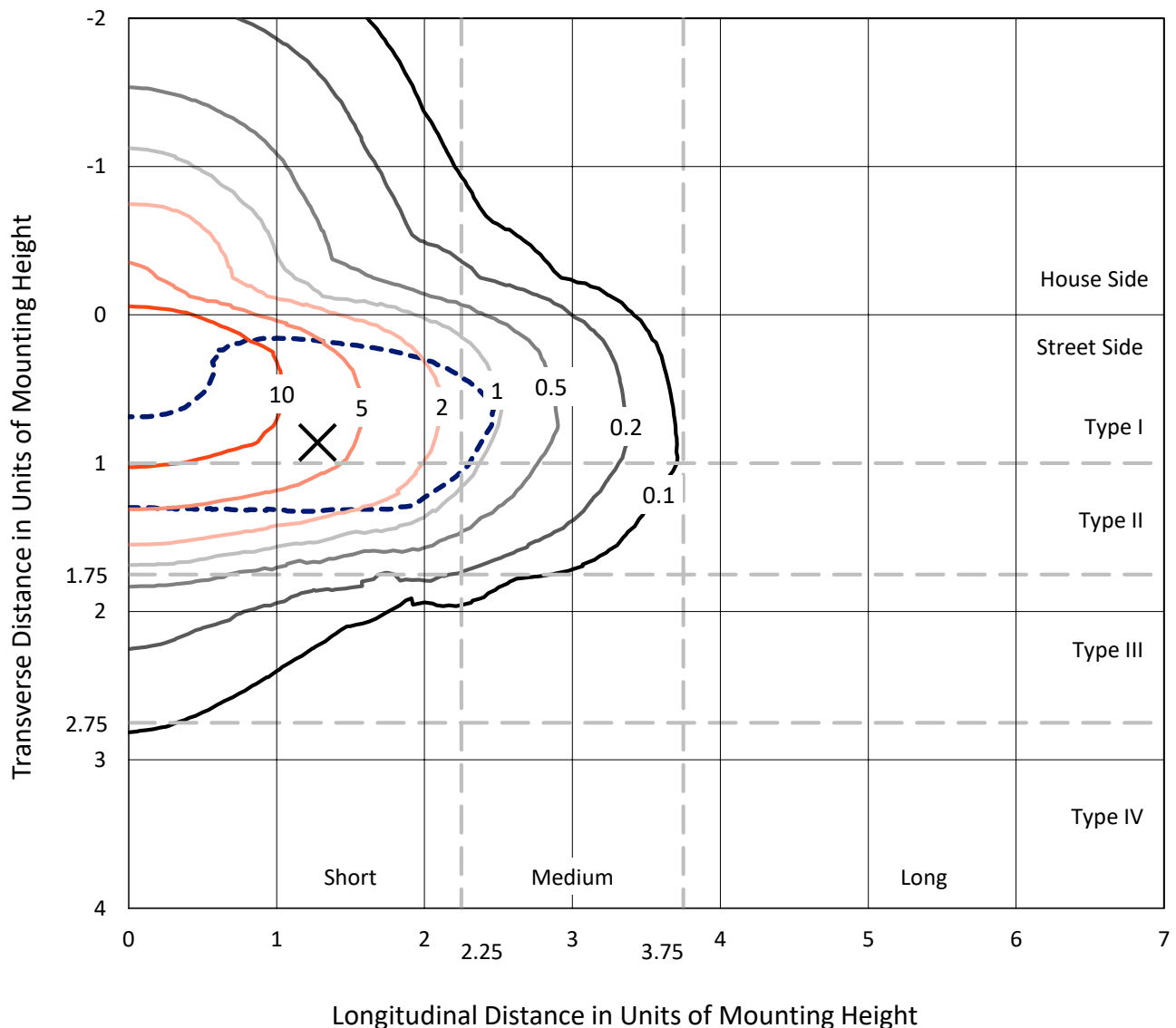


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Iso-Footcandle Lines of Horizontal Illumination

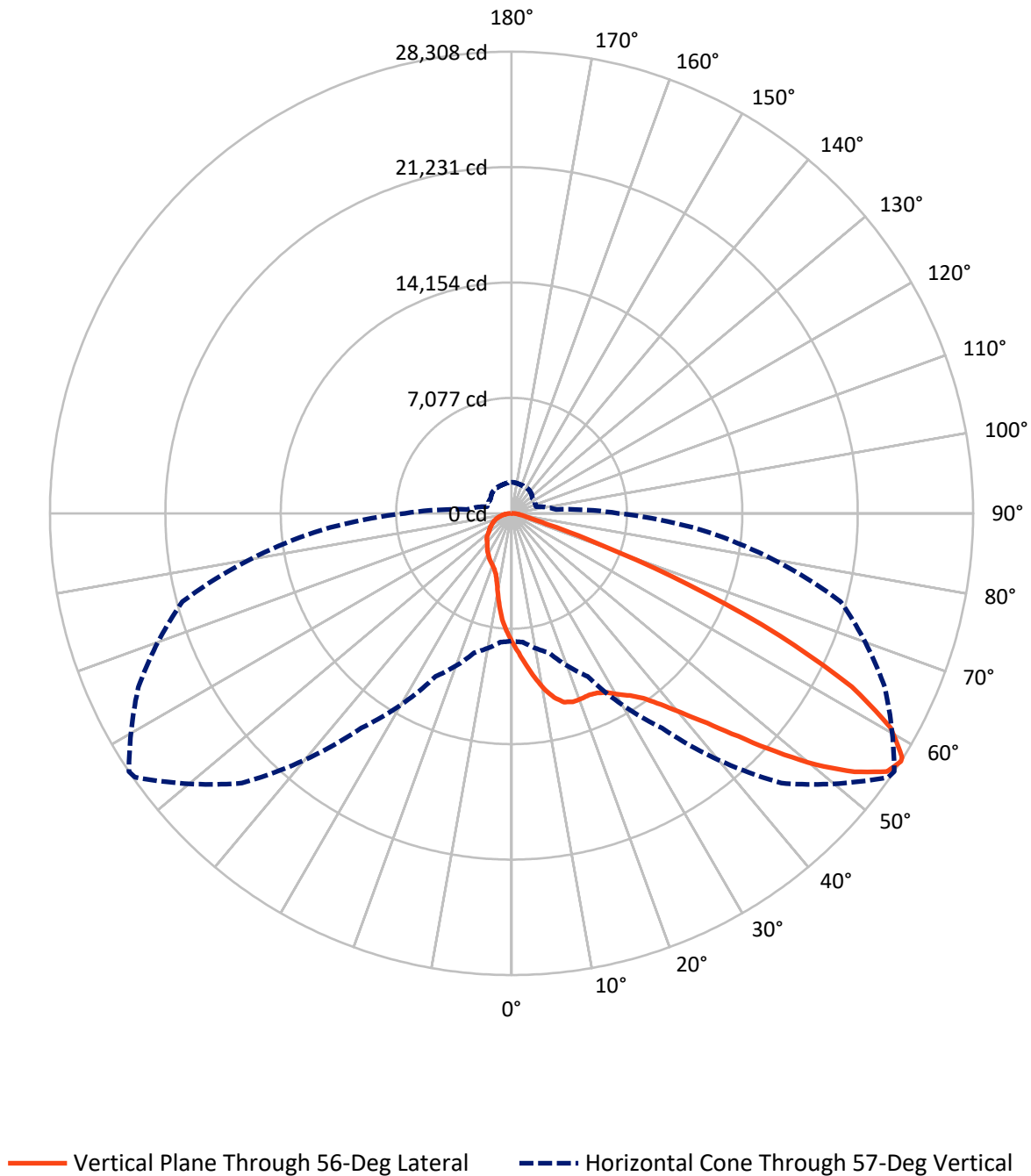
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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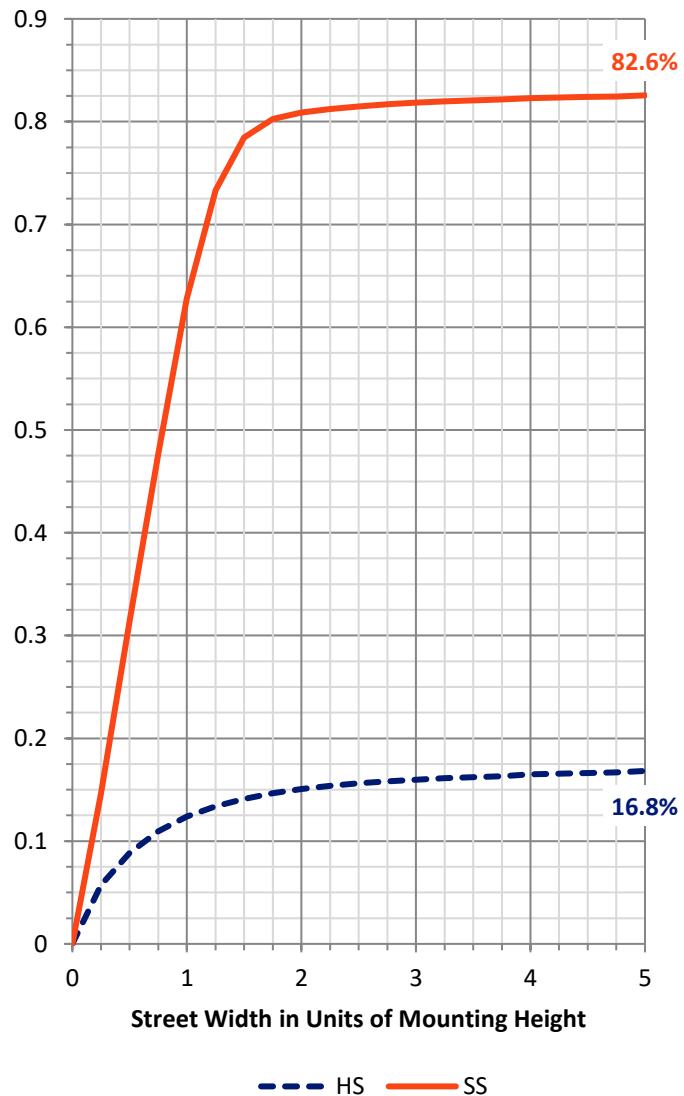
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6161.3	0.0	6161.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	29581.7	0.0	29581.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	35743.0	0.0	35743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.3	2.1
10°-20°	2141.1	6.0
20°-30°	3487.4	9.8
30°-40°	5213.3	14.6
40°-50°	7907.5	22.1
50°-60°	8862.9	24.8
60°-70°	5234.7	14.6
70°-80°	1715.1	4.8
80°-90°	423.7	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°	35743.0	100.0
0°-180°	35743.0	100.0

Coefficient of Utilization



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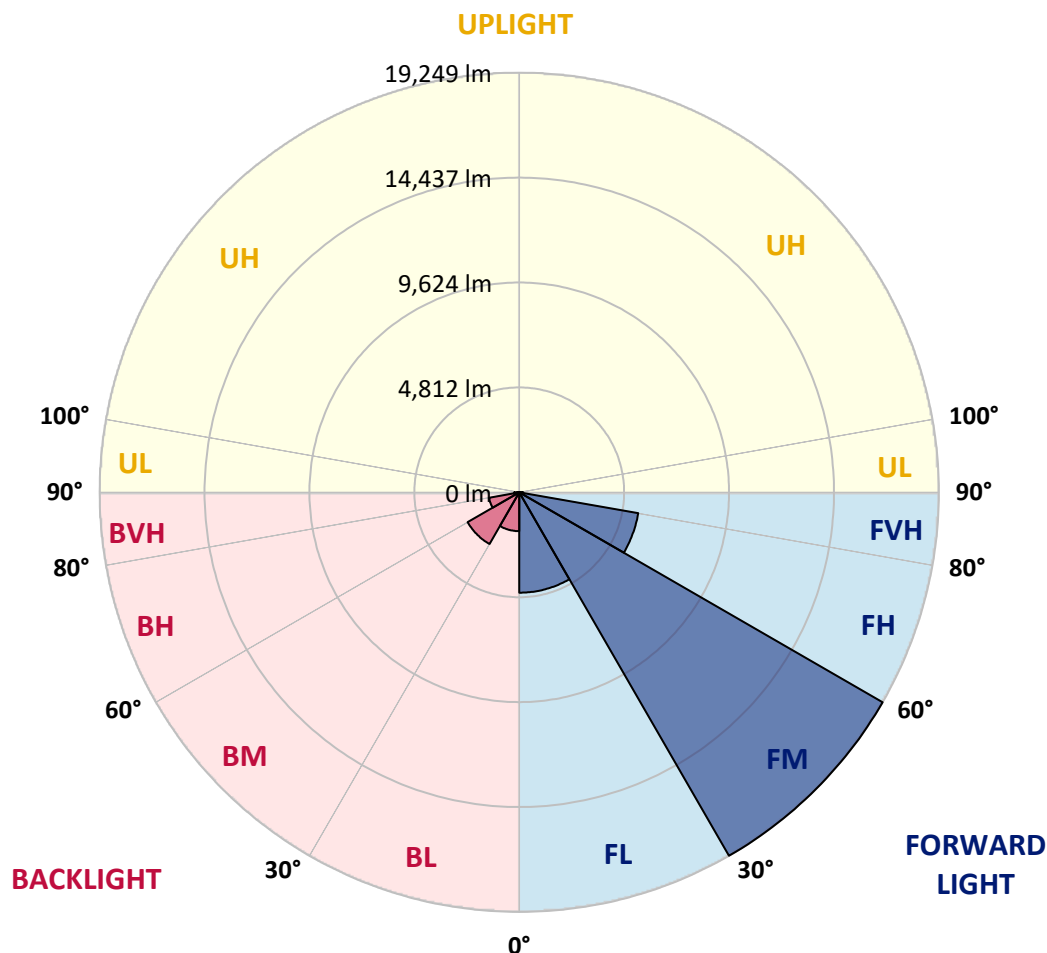
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4604.2	12.9			
FM	(30°-60°)	19248.8	53.9			
FH	(60°-80°)	5542.1	15.5			G3/7500
FVH	(80°-90°)	186.6	0.5			G2/225
BL	(0°-30°)	1781.6	5.0	B3/2500		
BM	(30°-60°)	2734.8	7.7	B3/5000		
BH	(60°-80°)	1407.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	237.2	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°	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8
2.5°	9103.4	9186.9	9150.0	9022.3	8924.0	8785.2	8630.5	8583.8	8420.4	8237.4	8017.5
5°	10544.2	10502.5	10442.3	10243.3	10033.2	9788.8	9400.6	9339.2	8975.6	8561.7	8124.4
7.5°	11364.8	11361.1	11325.5	11208.8	11017.2	10697.8	10229.8	10157.3	9608.2	8942.5	8264.4
10°	11245.6	11237.0	11296.0	11417.6	11475.3	11409.0	11014.7	10942.2	10267.9	9363.8	8426.5
12.5°	10568.8	10573.7	10668.3	10923.8	11271.4	11689.1	11625.2	11589.6	10952.1	9840.4	8623.1
15°	10041.8	10052.9	10127.8	10350.2	10760.4	11518.3	11996.2	12008.4	11614.1	10366.1	8852.8
17.5°	9810.9	9834.2	9868.6	10024.6	10400.5	11178.1	12084.6	12150.9	12193.9	10911.5	9073.9
20°	9884.6	9906.7	9916.5	10016.0	10324.4	10971.7	12023.2	12142.3	12638.6	11425.0	9295.0
22.5°	10215.0	10228.5	10234.7	10260.5	10500.0	11030.7	11982.6	12107.9	12960.4	11885.6	9462.1
25°	10762.9	10753.1	10713.7	10680.6	10841.5	11264.1	12076.0	12195.1	13222.1	12303.2	9571.4
27.5°	11418.8	11406.5	11330.4	11239.5	11331.6	11627.6	12345.0	12439.6	13456.7	12693.9	9626.7
30°	12206.2	12174.3	12030.5	11922.5	11958.1	12173.0	12788.4	12874.4	13819.0	13137.3	9680.7
32.5°	13116.4	13082.0	12874.4	12695.1	12695.1	12874.4	13245.4	13316.6	14126.1	13638.5	9767.9
35°	14256.3	14213.3	13943.1	13642.2	13557.4	13648.3	13868.2	13918.5	14678.9	14269.8	9926.4
37.5°	15600.2	15542.4	15192.3	14789.4	14604.0	14599.0	14757.5	14860.7	15562.1	15099.0	10195.4
40°	16947.7	16907.1	16601.3	16284.4	15920.8	15804.1	16048.5	16080.4	16716.7	16128.4	10539.3
42.5°	17989.3	17981.9	17925.4	17967.2	17595.0	17359.2	17550.8	17576.6	18126.9	17242.5	10905.4
45°	18539.6	18551.9	18825.8	19432.6	19570.2	19398.2	19492.8	19500.2	19738.5	18366.4	11240.7
47.5°	18098.6	18162.5	18855.3	20212.6	21339.1	21910.2	21753.0	21843.9	21301.0	19331.9	11503.6
50°	16380.2	16458.8	17638.0	19865.0	22164.5	24341.2	24258.9	24238.0	22561.3	20039.5	11646.1
52.5°	14251.4	14312.8	15285.7	18058.1	21558.9	25685.0	26440.4	26332.3	23681.5	20568.9	11673.1
55°	11009.8	11105.6	12037.9	14451.6	19109.6	25171.5	28044.7	27947.6	24702.3	20846.5	11641.2
57°	7827.1	7927.8	8854.0	11029.4	16075.5	23394.1	28204.4	28307.5	25253.8	20893.2	11676.8
57.5°	6984.5	7087.6	8005.2	10118.0	15129.7	22751.7	28066.8	28238.7	25353.3	20885.8	11696.4
60°	3516.8	3556.1	4140.8	5648.0	9564.0	18393.4	26272.1	26715.6	25443.0	20524.7	11781.2
62.5°	2186.5	2158.2	2139.8	2601.7	4653.0	12197.6	22568.6	23422.4	23727.0	19650.1	11576.1
65°	1922.4	1869.6	1666.9	1630.0	2055.0	5924.4	16995.6	18058.1	20060.3	18271.8	11087.2
67.5°	1805.7	1754.1	1525.6	1388.0	1389.3	2348.6	10551.6	11748.0	15627.2	15941.6	9933.7
70°	1685.3	1638.6	1424.9	1262.8	1182.9	1300.8	4854.5	5762.2	10186.8	12530.5	8302.5
72.5°	1530.5	1498.6	1295.9	1128.9	1044.1	974.1	1858.5	2195.1	5897.4	8415.5	5765.9
75°	1368.4	1338.9	1165.7	1006.0	902.8	766.5	1046.6	1127.6	2996.0	4305.4	2838.7
77.5°	1190.3	1173.1	1036.7	889.3	807.0	635.1	740.7	780.0	1284.9	1846.2	1423.7
80°	947.1	980.2	906.5	792.3	716.1	508.5	524.5	550.3	748.1	901.6	808.3
82.5°	616.6	674.4	710.0	643.7	589.6	400.4	377.1	388.2	487.7	550.3	351.3
85°	256.7	288.7	466.8	421.3	391.8	292.3	253.0	258.0	302.2	313.2	143.7
87.5°	114.2	121.6	205.1	192.9	165.8	100.7	108.1	117.9	160.9	152.3	55.3
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°	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8	7927.8
2.5°	7935.2	7832.0	7655.1	7459.8	7300.1	7172.4	7043.4	6955.0	6851.8	6796.5	6768.3
5°	7941.3	7738.7	7366.5	6984.5	6643.0	6331.0	6033.7	5805.2	5591.5	5476.0	5444.1
7.5°	7967.1	7662.5	7060.6	6431.7	5824.9	5270.9	4843.4	4575.6	4382.8	4296.8	4272.2
10°	7988.0	7572.8	6682.3	5751.2	4925.7	4364.4	4032.7	3882.8	3816.5	3805.5	3794.4
12.5°	8037.2	7480.7	6284.3	5041.2	4226.8	3838.6	3723.2	3713.3	3731.8	3758.8	3758.8
15°	8114.5	7389.8	5829.8	4431.9	3782.1	3645.8	3669.1	3723.2	3773.5	3815.3	3821.4
17.5°	8171.0	7278.0	5340.9	3944.3	3545.0	3581.9	3665.4	3741.6	3793.2	3833.7	3837.4
20°	8211.6	7104.8	4818.9	3572.1	3408.7	3522.9	3627.3	3694.9	3730.5	3771.1	3777.2
22.5°	8190.7	6872.7	4355.8	3305.5	3298.1	3436.9	3536.4	3617.5	3590.5	3551.2	3577.0
25°	8090.0	6553.3	3879.2	3106.5	3181.5	3321.5	3444.3	3390.3	3299.4	3282.2	3292.0
27.5°	7910.6	6145.5	3438.2	2922.3	3046.3	3214.6	3207.2	3153.2	3121.3	3099.2	3112.7
30°	7717.8	5703.3	3052.5	2761.4	2896.5	3035.3	3007.0	3005.8	2973.9	2938.2	2955.4
32.5°	7527.4	5258.6	2746.6	2628.7	2783.5	2801.9	2863.3	2881.7	2819.1	2744.2	2739.2
35°	7361.6	4838.5	2514.5	2508.3	2647.1	2649.6	2739.2	2713.4	2557.4	2480.1	2480.1
37.5°	7237.5	4419.6	2337.6	2400.2	2467.8	2531.6	2577.1	2470.2	2444.4	2401.4	2400.2
40°	7183.4	4051.1	2227.0	2317.9	2341.3	2422.3	2305.6	2347.4	2359.7	2337.6	2337.6
42.5°	7126.9	3730.5	2131.2	2255.3	2251.6	2240.5	2181.6	2235.6	2284.7	2286.0	2282.3
45°	7070.4	3454.1	2046.4	2121.4	2173.0	2053.8	2064.9	2122.6	2191.4	2216.0	2216.0
47.5°	7007.8	3235.5	1969.1	1980.1	2060.0	1980.1	1971.5	2015.7	2096.8	2136.1	2144.7
50°	6870.2	3039.0	1880.6	1856.1	1878.2	1905.2	1912.6	1933.4	2023.1	2085.8	2100.5
52.5°	6679.8	2863.3	1767.6	1741.8	1741.8	1843.8	1878.2	1884.3	1960.5	2035.4	2050.1
55°	6521.4	2751.5	1650.9	1646.0	1641.1	1778.7	1837.6	1847.5	1900.3	1959.2	1966.6
57°	6532.4	2742.9	1561.2	1566.2	1564.9	1712.3	1799.5	1820.4	1847.5	1897.8	1906.4
57.5°	6538.6	2749.1	1541.6	1544.0	1542.8	1693.9	1788.5	1811.8	1832.7	1885.5	1894.1
60°	6630.7	2765.0	1461.7	1434.7	1440.9	1595.6	1725.8	1755.3	1768.8	1838.9	1849.9
62.5°	6494.3	2693.8	1397.9	1332.8	1332.8	1492.5	1638.6	1685.3	1706.2	1800.8	1819.2
65°	6098.8	2493.6	1322.9	1217.3	1229.6	1389.3	1534.2	1610.4	1642.3	1760.2	1779.9
67.5°	5488.3	2261.4	1243.1	1114.1	1126.4	1281.2	1426.1	1508.4	1558.8	1716.0	1732.0
70°	4693.6	1977.7	1135.0	1004.8	1019.5	1163.3	1298.4	1391.7	1466.7	1674.3	1679.2
72.5°	3460.3	1621.4	983.9	884.4	900.4	1025.7	1169.4	1277.5	1378.2	1569.8	1567.4
75°	2057.5	1267.7	816.9	762.8	773.9	890.6	1052.7	1184.1	1335.2	1529.3	1552.6
77.5°	1248.0	954.4	665.8	638.7	652.3	771.4	969.2	1109.2	1316.8	1442.1	1434.7
80°	754.2	681.7	531.9	514.7	528.2	659.6	896.7	1052.7	1151.0	1232.0	1232.0
82.5°	394.3	416.4	390.6	377.1	395.5	535.6	815.6	918.8	1017.1	873.4	815.6
85°	160.9	217.4	237.1	235.8	246.9	371.0	703.8	786.1	655.9	622.8	637.5
87.5°	54.0	92.1	115.5	99.5	104.4	233.4	487.7	379.6	450.8	314.5	298.5
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)