

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: P319931

Luminaire Tested: **GAN-SA7C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39755 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

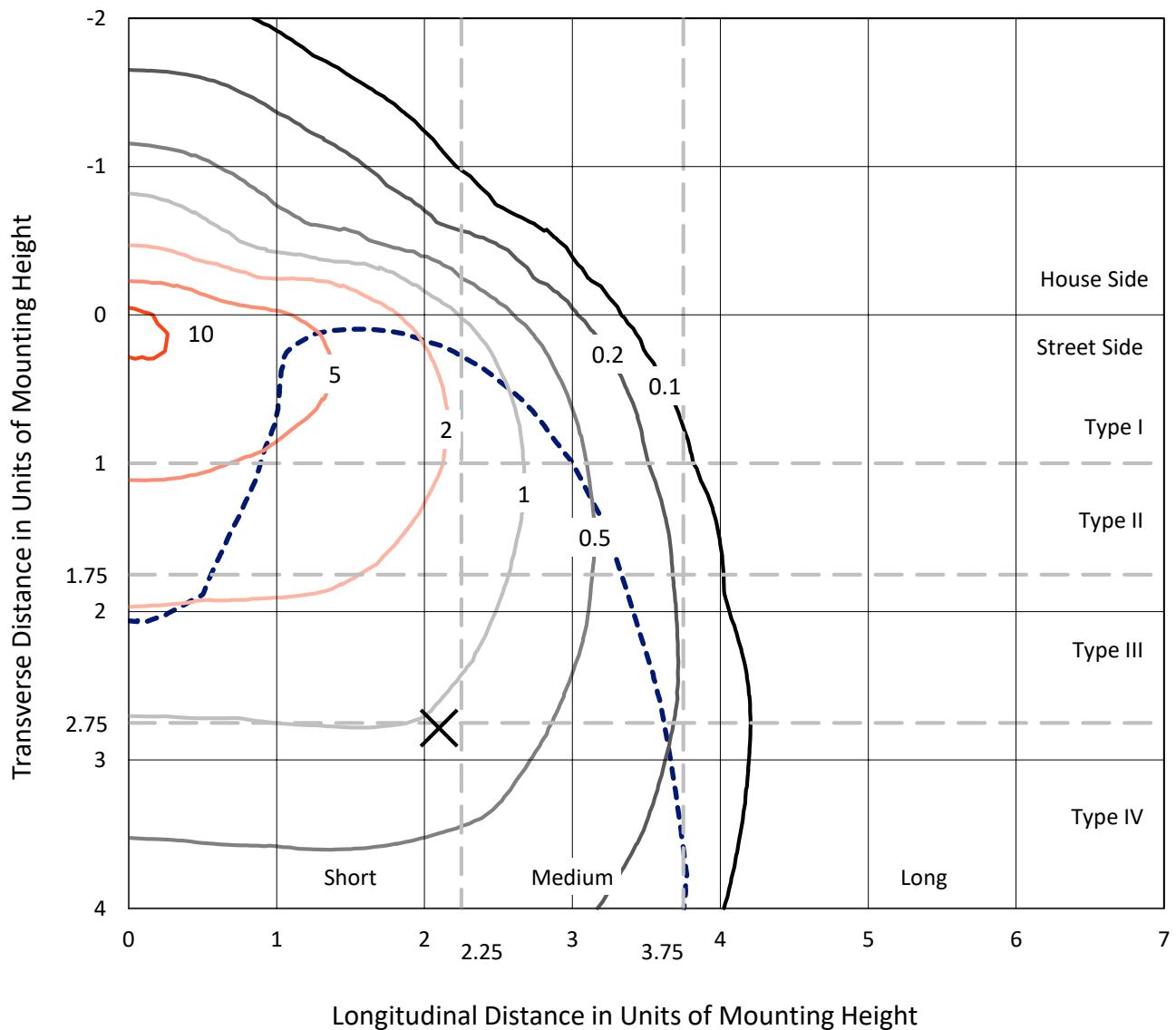
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

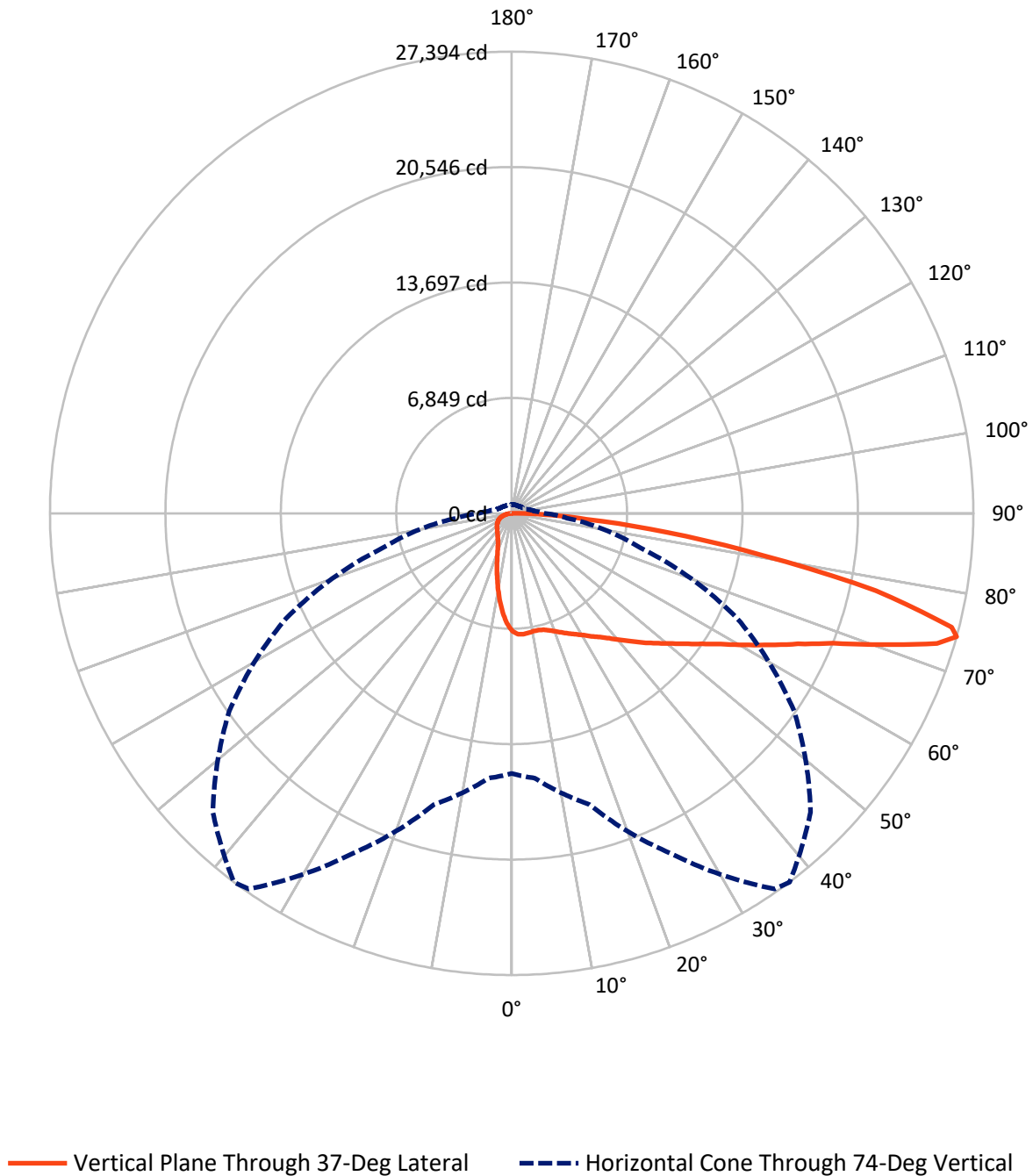
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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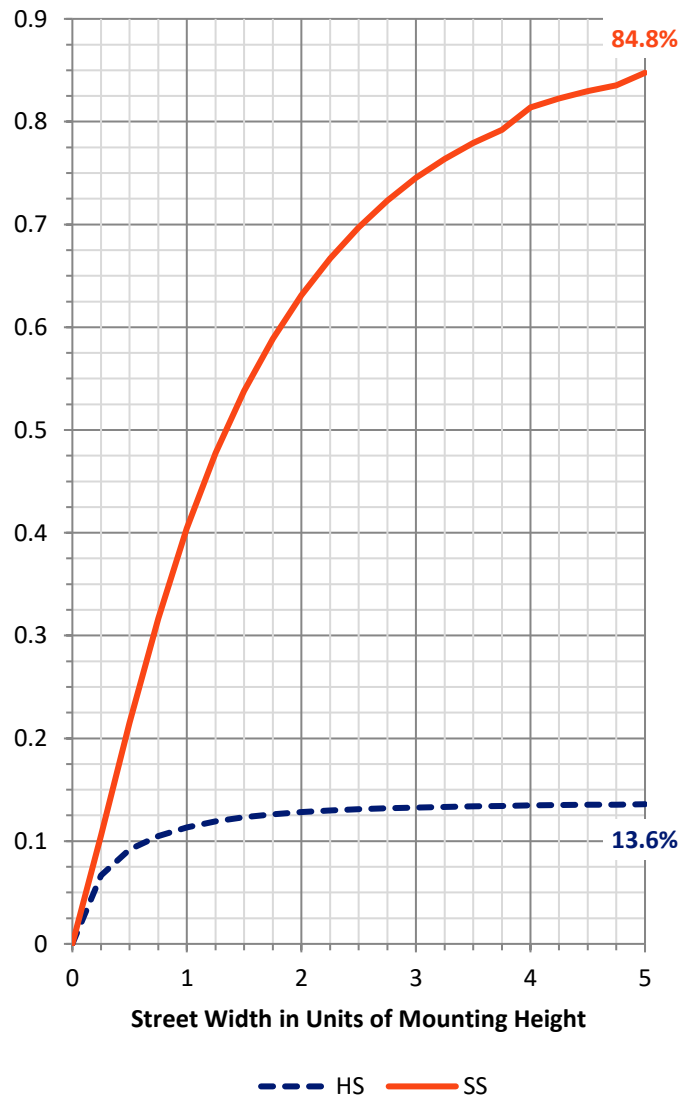
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5470.0	0.0	5470.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	34285.0	0.0	34285.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	39755.0	0.0	39755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.8	1.6
10°-20°	1581.1	4.0
20°-30°	2436.2	6.1
30°-40°	3542.6	8.9
40°-50°	5214.1	13.1
50°-60°	7322.3	18.4
60°-70°	9267.7	23.3
70°-80°	8160.6	20.5
80°-90°	1613.5	4.1
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°	39755.0	100.0
0°-180°	39755.0	100.0

Coefficient of Utilization



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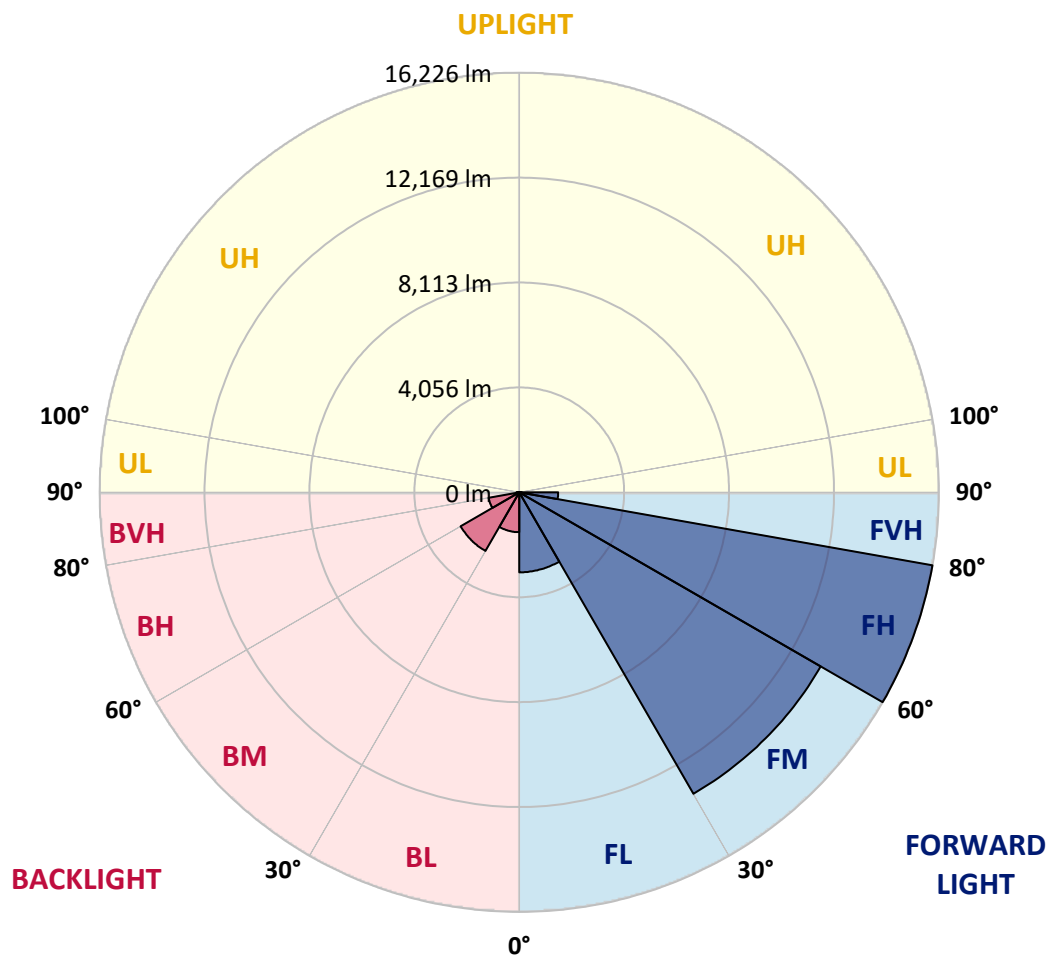
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3093.4	7.8			
FM	(30°-60°)	13461.4	33.9			
FH	(60°-80°)	16226.0	40.8			G5
FVH	(80°-90°)	1504.3	3.8			G5
BL	(0°-30°)	1540.8	3.9	B3/2500		
BM	(30°-60°)	2617.6	6.6	B3/5000		
BH	(60°-80°)	1202.4	3.0	B3/2500		G3/2500
BVH	(80°-90°)	109.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7
2.5°	7244.1	7245.5	7244.1	7232.9	7206.3	7183.9	7165.7	7139.1	7080.3	7035.5	6968.3
5°	7312.8	7304.4	7298.8	7277.8	7235.7	7210.5	7175.5	7125.1	7028.5	6938.9	6829.6
7.5°	7280.6	7270.7	7258.1	7232.9	7185.3	7164.3	7115.3	7049.5	6933.3	6815.6	6658.8
10°	7181.1	7178.3	7172.7	7167.1	7126.5	7109.7	7064.9	6994.9	6880.0	6737.2	6553.8
12.5°	7070.5	7077.5	7099.9	7129.3	7111.1	7102.7	7074.7	7027.1	6909.5	6755.4	6534.2
15°	7000.5	7020.1	7080.3	7157.3	7172.7	7169.9	7162.9	7132.1	7007.5	6836.6	6579.0
17.5°	6976.7	7008.9	7123.7	7251.1	7296.0	7305.8	7308.6	7255.3	7116.7	6936.1	6625.2
20°	7020.1	7060.7	7228.7	7403.8	7475.2	7480.8	7468.2	7375.8	7220.3	7021.5	6650.4
22.5°	7151.7	7188.1	7398.2	7595.6	7676.9	7685.3	7647.4	7507.4	7329.6	7122.3	6685.4
25°	7405.2	7450.0	7660.1	7857.5	7899.5	7900.9	7846.3	7672.7	7472.4	7263.7	6761.0
27.5°	7735.7	7780.5	7969.5	8162.8	8140.4	8127.8	8053.6	7879.9	7658.7	7458.4	6895.4
30°	8104.0	8153.0	8332.2	8469.5	8416.3	8391.0	8330.8	8106.8	7917.7	7724.5	7101.3
32.5°	8484.9	8529.7	8686.5	8780.4	8713.1	8701.9	8610.9	8406.5	8255.2	8130.6	7434.6
35°	8875.6	8907.8	9061.8	9115.0	9025.4	9022.6	8997.4	8809.8	8714.5	8773.4	7919.1
37.5°	9274.7	9283.1	9414.7	9417.5	9390.9	9402.1	9428.7	9311.1	9337.7	9521.2	8549.3
40°	9630.4	9652.8	9748.0	9777.4	9823.6	9862.8	9995.9	9918.9	10124.7	10449.6	9333.5
42.5°	9893.7	9937.1	10089.7	10165.3	10315.2	10376.8	10564.4	10635.8	11050.4	11537.7	10266.2
45°	10116.3	10183.5	10428.6	10584.0	10837.5	10945.3	11214.2	11453.7	12096.4	12718.2	11247.8
47.5°	10357.2	10442.6	10749.3	11046.2	11390.7	11512.5	12001.2	12359.7	13212.5	13905.7	12173.5
50°	10711.5	10777.3	11077.0	11543.3	11973.2	12130.1	12806.4	13320.4	14346.8	15037.2	12975.9
52.5°	11205.8	11180.6	11434.1	12088.0	12665.0	12858.2	13666.3	14342.6	15496.6	16060.9	13653.7
55°	11702.9	11660.9	11838.8	12658.0	13471.6	13674.7	14612.9	15369.1	16590.2	16982.4	14173.2
57.5°	12256.1	12176.3	12326.1	13300.8	14390.3	14632.5	15673.0	16460.0	17665.7	17727.4	14503.7
60°	12826.0	12718.2	12886.3	14097.6	15556.8	15842.4	16913.7	17524.3	18679.6	18323.9	14610.1
62.5°	13324.6	13249.0	13508.0	14986.8	16871.7	17185.4	18132.1	18655.8	19679.5	18571.8	14226.4
65°	13760.1	13772.7	14220.8	15986.7	18337.9	18672.6	19529.6	20050.6	20466.5	18424.7	13328.8
67.5°	14279.6	14351.0	15115.7	17303.0	20183.6	20550.5	21563.0	21571.4	20906.2	17562.1	11561.5
70°	15037.2	15184.3	16346.6	19129.1	22807.9	23312.0	24093.5	22464.8	20288.6	15223.5	9096.8
72.5°	15709.4	15983.9	17655.9	21218.5	26006.4	26388.7	25573.7	21949.5	17707.7	11408.9	5667.3
74°	15436.3	15776.6	17894.0	22247.8	27210.7	27394.1	25073.7	20445.5	14764.2	7900.9	3293.7
75°	14848.2	15217.9	17546.7	22238.0	27058.1	26955.8	23866.6	18727.2	12159.5	5388.6	2191.6
77.5°	11983.0	12373.7	14785.2	19059.1	22186.1	22089.5	18333.7	12562.8	5325.6	1767.3	1113.3
80°	6966.9	7265.1	9178.1	12103.4	14960.2	15135.3	12057.2	6216.3	2095.0	992.9	754.8
82.5°	3094.8	3300.7	4433.6	6178.5	9028.2	9253.7	6314.3	3257.3	1293.9	603.6	453.7
85°	2030.5	2183.2	2691.5	2942.2	4299.2	4453.2	3090.6	2536.1	854.2	331.9	333.3
87.5°	1460.6	1607.6	1999.7	1746.3	1973.1	1868.1	1681.9	2347.0	343.1	189.1	112.0
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°	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7	7004.7
2.5°	6938.9	6916.5	6866.0	6770.8	6717.6	6672.8	6598.6	6555.2	6535.6	6534.2	6542.6
5°	6766.6	6714.8	6584.6	6424.9	6297.5	6181.3	6037.0	5950.2	5888.6	5852.2	5862.0
7.5°	6566.4	6485.1	6280.7	6025.8	5821.4	5595.9	5373.2	5240.2	5136.6	5059.6	5073.6
10°	6429.1	6317.1	6018.8	5651.9	5311.6	4983.9	4677.3	4493.8	4348.2	4236.1	4244.5
12.5°	6382.9	6231.7	5818.6	5328.4	4850.9	4402.8	4002.3	3720.8	3571.0	3443.5	3453.3
15°	6389.9	6186.9	5650.5	5037.1	4436.4	3872.0	3386.1	3057.0	2854.0	2765.7	2767.1
17.5°	6395.5	6135.0	5474.1	4724.9	4026.1	3376.3	2848.4	2515.1	2323.2	2242.0	2243.4
20°	6377.3	6051.0	5255.6	4366.4	3597.6	2921.2	2410.0	2127.2	1981.5	1918.5	1918.5
22.5°	6353.5	5951.6	5009.1	4006.5	3174.7	2526.3	2096.4	1880.7	1796.7	1754.7	1753.3
25°	6364.7	5877.4	4757.1	3636.8	2785.3	2211.2	1887.7	1744.9	1688.9	1662.2	1660.8
27.5°	6424.9	5842.4	4524.6	3268.5	2445.1	1974.5	1747.7	1646.8	1610.4	1593.6	1593.6
30°	6534.2	5842.4	4282.3	2954.8	2162.2	1799.5	1639.8	1571.2	1546.0	1534.8	1534.8
32.5°	6724.6	5874.6	4048.5	2643.9	1936.7	1662.2	1550.2	1504.0	1484.4	1478.8	1478.8
35°	7052.3	5983.8	3820.2	2349.8	1754.7	1550.2	1464.8	1438.2	1424.2	1422.8	1427.0
37.5°	7513.0	6206.5	3606.0	2132.8	1625.8	1459.2	1393.4	1372.4	1364.0	1371.0	1376.6
40°	8092.8	6508.9	3411.3	1936.7	1527.8	1386.4	1327.6	1313.6	1309.4	1319.2	1327.6
42.5°	8793.0	6917.9	3251.7	1795.3	1452.2	1324.8	1271.5	1254.7	1250.5	1261.7	1272.9
45°	9550.6	7357.6	3139.6	1690.3	1393.4	1278.5	1222.5	1204.3	1195.9	1201.5	1214.1
47.5°	10239.5	7773.5	3094.8	1616.0	1337.4	1239.3	1179.1	1156.7	1142.7	1139.9	1149.7
50°	10820.7	8083.0	3115.8	1571.2	1292.5	1195.9	1137.1	1111.9	1090.9	1078.3	1085.3
52.5°	11243.6	8277.6	3135.4	1551.6	1257.5	1148.3	1090.9	1067.1	1039.1	1018.1	1018.1
55°	11550.3	8322.4	3092.0	1536.2	1230.9	1096.5	1039.1	1016.7	988.7	964.9	962.1
57.5°	11670.7	8196.4	2931.0	1513.8	1212.7	1047.5	984.5	967.7	943.9	915.8	914.4
60°	11508.3	7807.1	2620.1	1466.2	1188.9	1006.9	929.8	918.6	907.4	880.8	879.4
62.5°	10855.7	6952.9	2218.2	1369.6	1141.3	963.5	879.4	885.0	886.4	868.2	865.4
65°	9672.4	5779.3	1826.1	1243.5	1069.9	911.6	827.6	854.2	869.6	866.8	862.6
67.5°	7952.7	4498.0	1547.4	1110.5	976.1	840.2	771.6	802.4	815.0	824.8	822.0
70°	5902.6	3171.8	1279.9	970.5	862.6	756.2	698.8	714.2	705.8	717.0	721.2
72.5°	3290.9	1903.1	1043.3	830.4	745.0	658.2	617.6	614.8	596.6	596.6	596.6
74°	1974.5	1396.2	917.2	743.6	673.6	593.8	558.7	546.1	529.3	530.7	529.3
75°	1588.0	1200.1	841.6	686.2	623.2	555.9	520.9	504.1	491.5	491.5	490.1
77.5°	1002.7	911.6	677.8	546.1	498.5	457.9	434.1	411.7	411.7	410.3	408.9
80°	757.6	725.4	527.9	413.1	382.3	351.5	336.1	326.3	326.3	330.5	329.1
82.5°	519.5	546.1	371.1	288.5	273.1	250.7	247.9	249.3	245.1	239.5	238.1
85°	379.5	410.3	250.7	182.0	166.6	152.6	163.8	169.4	162.4	149.8	144.2
87.5°	145.6	268.9	134.4	75.6	70.0	60.2	70.0	72.8	78.4	61.6	63.0
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)