

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: P321091

Luminaire Tested: **GAN-SA7C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321091
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-SA7C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 37731 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

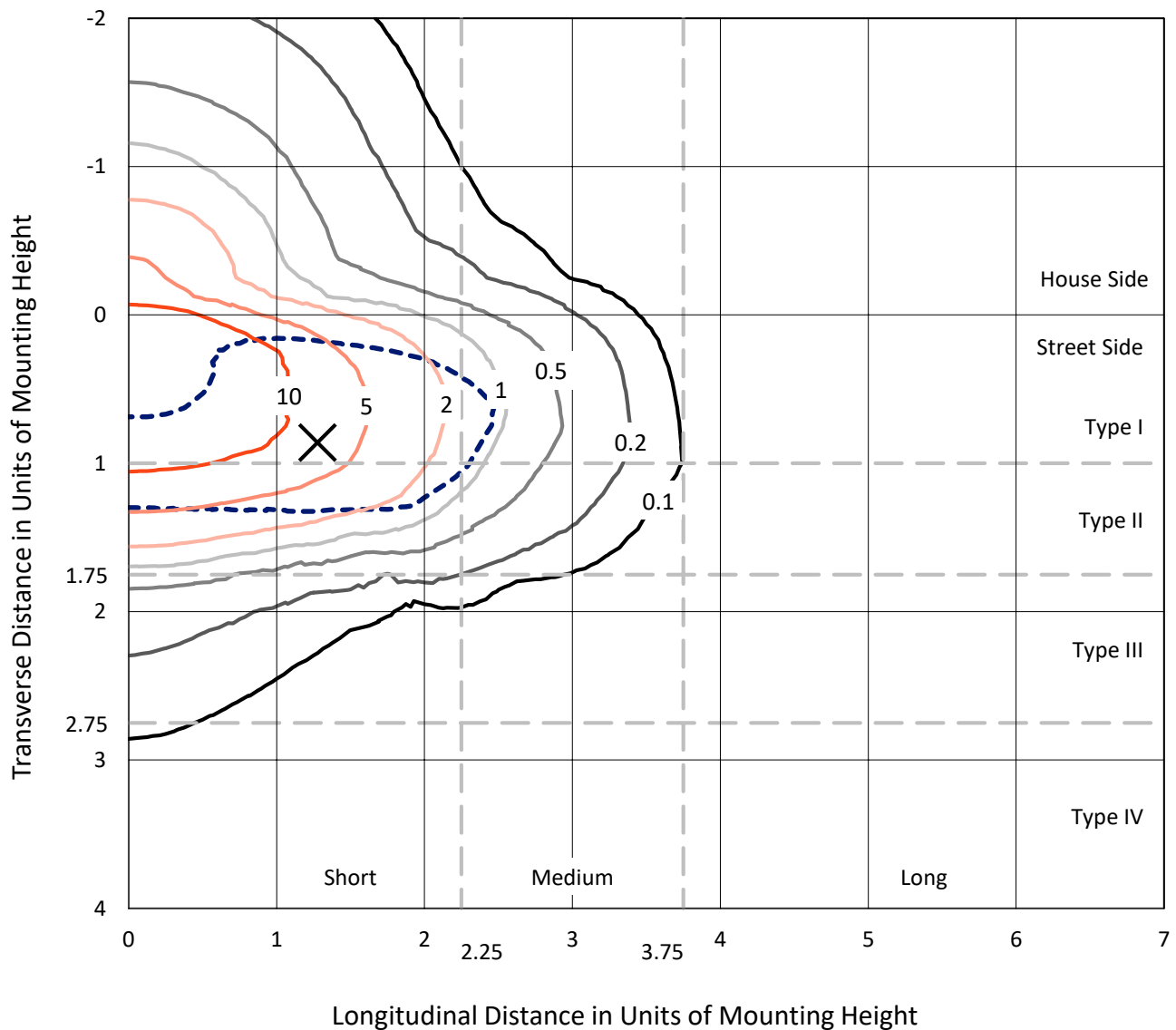


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Iso-Footcandle Lines of Horizontal Illumination

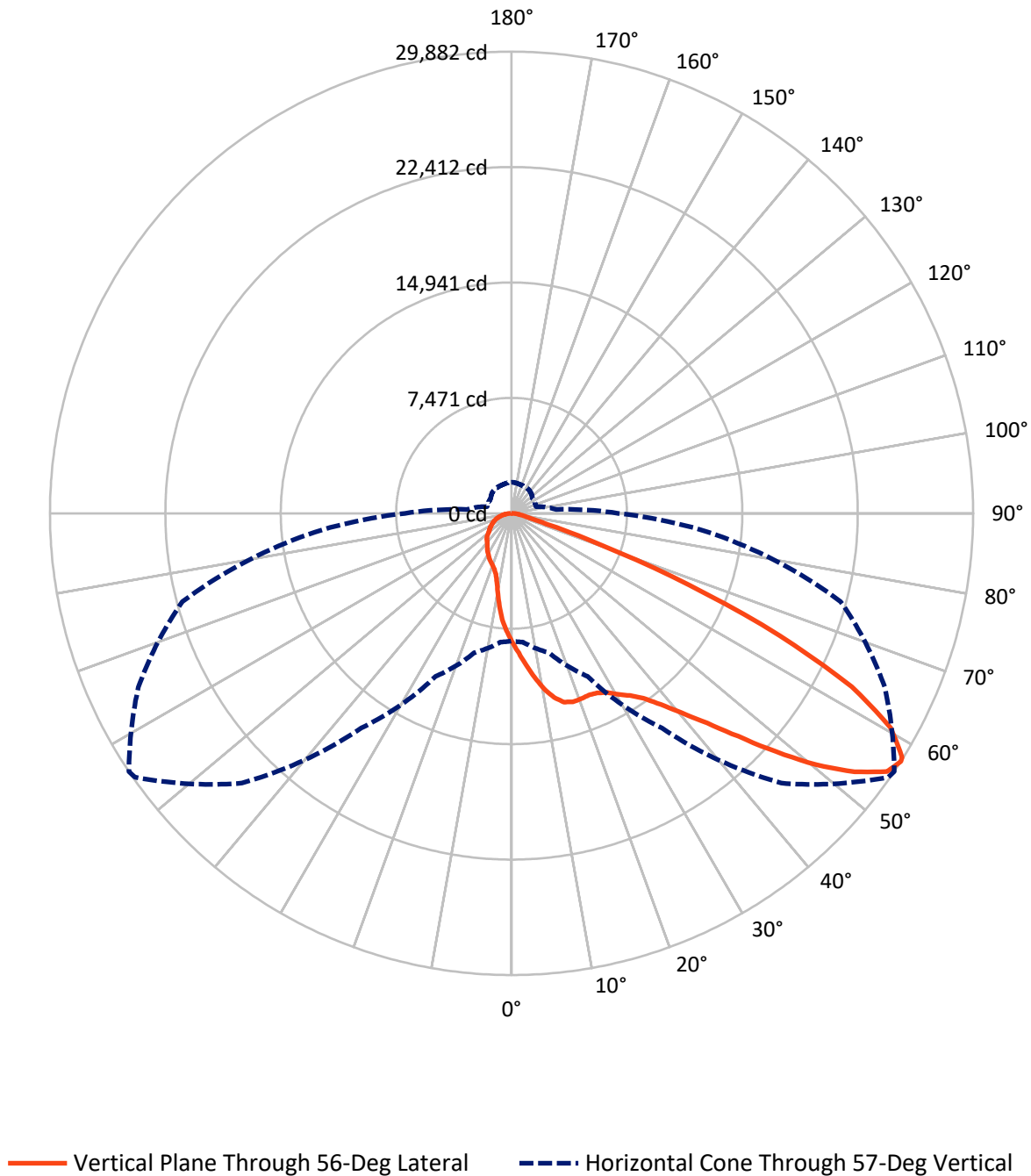
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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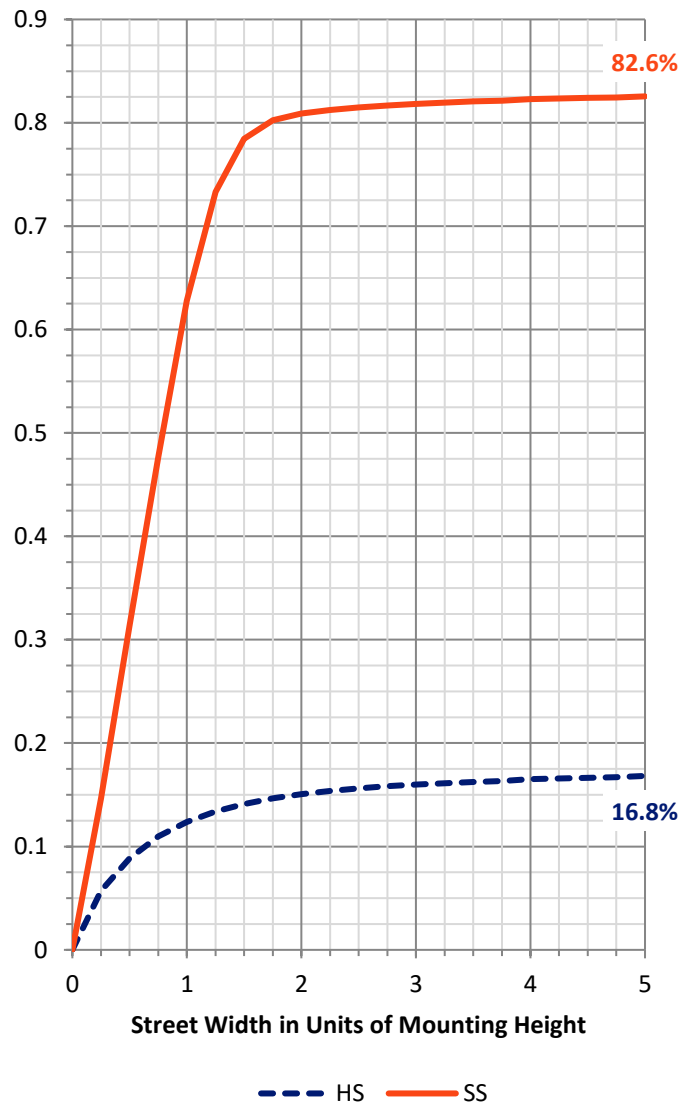
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6504.0	0.0	6504.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31227.0	0.0	31227.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	37731.0	0.0	37731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.4	2.1
10°-20°	2260.2	6.0
20°-30°	3681.4	9.8
30°-40°	5503.2	14.6
40°-50°	8347.3	22.1
50°-60°	9355.8	24.8
60°-70°	5525.9	14.6
70°-80°	1810.5	4.8
80°-90°	447.3	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°	37731.0	100.0
0°-180°	37731.0	100.0

Coefficient of Utilization



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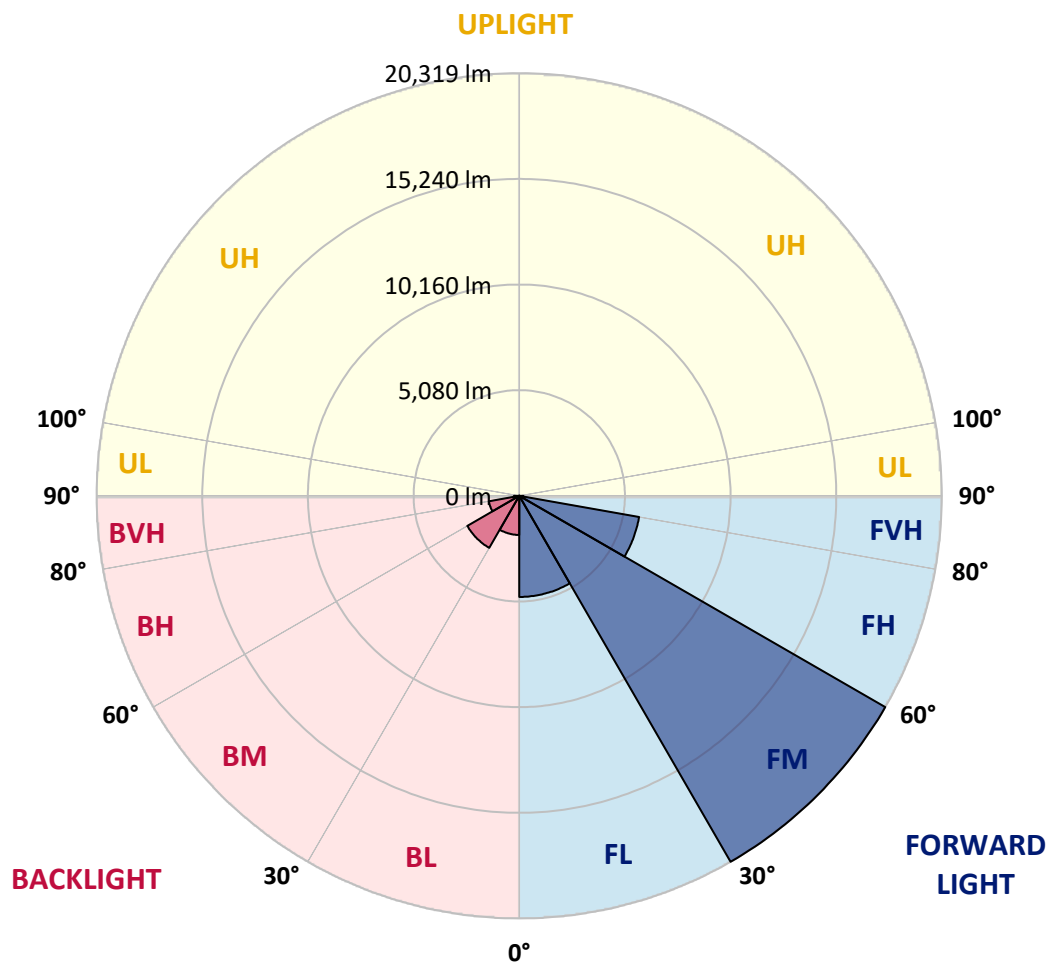
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4860.3	12.9			
FM	(30°-60°)	20319.4	53.9			
FH	(60°-80°)	5850.3	15.5			G3/7500
FVH	(80°-90°)	197.0	0.5			G2/225
BL	(0°-30°)	1880.7	5.0	B3/2500		
BM	(30°-60°)	2886.9	7.7	B3/5000		
BH	(60°-80°)	1486.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	250.4	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°	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8
2.5°	9609.7	9697.9	9659.0	9524.1	9420.4	9273.9	9110.5	9061.2	8888.7	8695.5	8463.4
5°	11130.7	11086.6	11023.1	10813.0	10591.3	10333.2	9923.5	9858.7	9474.8	9037.9	8576.2
7.5°	11996.9	11993.0	11955.4	11832.2	11629.9	11292.8	10798.7	10722.2	10142.6	9439.8	8724.1
10°	11871.1	11862.0	11924.3	12052.6	12113.6	12043.6	11627.3	11550.8	10838.9	9884.6	8895.2
12.5°	11156.6	11161.8	11261.7	11531.4	11898.3	12339.2	12271.8	12234.2	11561.2	10387.7	9102.7
15°	10600.4	10612.0	10691.1	10925.8	11358.9	12159.0	12663.4	12676.3	12260.1	10942.7	9345.2
17.5°	10356.6	10381.2	10417.5	10582.2	10979.0	11799.8	12756.7	12826.8	12872.1	11518.4	9578.6
20°	10434.4	10457.7	10468.1	10573.1	10898.6	11581.9	12691.9	12817.7	13341.5	12060.4	9812.0
22.5°	10783.2	10797.5	10803.9	10831.2	11084.0	11644.2	12649.1	12781.4	13681.3	12546.7	9988.3
25°	11361.5	11351.1	11309.6	11274.6	11444.5	11890.6	12747.7	12873.4	13957.5	12987.5	10103.7
27.5°	12053.9	12041.0	11960.6	11864.6	11961.9	12274.4	13031.6	13131.5	14205.1	13399.9	10162.1
30°	12885.1	12851.4	12699.7	12585.6	12623.2	12850.1	13499.7	13590.5	14587.6	13868.0	10219.1
32.5°	13845.9	13809.6	13590.5	13401.2	13401.2	13590.5	13982.1	14057.3	14911.8	14397.0	10311.2
35°	15049.3	15003.9	14718.6	14400.9	14311.5	14407.4	14639.5	14692.7	15495.3	15063.5	10478.5
37.5°	16467.8	16406.9	16037.3	15612.0	15416.2	15411.0	15578.3	15687.2	16427.6	15938.8	10762.4
40°	17890.3	17847.5	17524.6	17190.1	16806.3	16683.1	16941.1	16974.8	17646.5	17025.4	11125.5
42.5°	18989.9	18982.1	18922.4	18966.5	18573.6	18324.7	18527.0	18554.2	19135.1	18201.5	11511.9
45°	19570.8	19583.8	19872.9	20513.5	20658.7	20477.2	20577.0	20584.8	20836.3	19388.0	11865.9
47.5°	19105.3	19172.7	19904.0	21336.9	22525.9	23128.9	22962.9	23058.9	22485.7	20407.1	12143.4
50°	17291.2	17374.2	18619.0	20969.9	23397.3	25695.0	25608.1	25586.1	23816.1	21154.0	12293.8
52.5°	15044.1	15108.9	16135.9	19062.5	22758.0	27113.6	27911.0	27796.9	24998.7	21712.9	12322.3
55°	11622.1	11723.3	12707.5	15255.4	20172.4	26571.6	29604.5	29502.1	26076.2	22005.9	12288.6
57°	8262.4	8368.8	9346.5	11642.9	16969.6	24695.3	29773.1	29882.0	26658.4	22055.2	12326.2
57.5°	7372.9	7481.8	8450.5	10680.7	15971.2	24017.1	29627.8	29809.4	26763.5	22047.4	12347.0
60°	3712.4	3753.9	4371.1	5962.1	10095.9	19416.5	27733.4	28201.5	26858.1	21666.2	12436.5
62.5°	2308.1	2278.3	2258.8	2746.4	4911.8	12876.0	23823.9	24725.1	25046.7	20743.0	12219.9
65°	2029.3	1973.5	1759.6	1720.7	2169.3	6253.9	17940.9	19062.5	21176.1	19288.1	11703.8
67.5°	1906.1	1851.7	1610.5	1465.2	1466.5	2479.3	11138.5	12401.4	16496.4	16828.3	10486.2
70°	1779.0	1729.8	1504.1	1333.0	1248.7	1373.2	5124.5	6082.7	10753.4	13227.4	8764.3
72.5°	1615.7	1581.9	1368.0	1191.6	1102.2	1028.3	1961.9	2317.2	6225.4	8883.6	6086.6
75°	1444.5	1413.4	1230.5	1062.0	953.1	809.1	1104.8	1190.4	3162.6	4544.9	2996.6
77.5°	1256.5	1238.3	1094.4	938.8	851.9	670.4	781.9	823.4	1356.3	1948.9	1502.9
80°	999.7	1034.8	956.9	836.4	756.0	536.8	553.7	580.9	789.7	951.8	853.2
82.5°	650.9	711.9	749.5	679.5	622.4	422.7	398.1	409.8	514.8	580.9	370.9
85°	271.0	304.7	492.7	444.8	413.6	308.6	267.1	272.3	319.0	330.7	151.7
87.5°	120.6	128.4	216.5	203.6	175.1	106.3	114.1	124.5	169.9	160.8	58.4
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°	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8	8368.8
2.5°	8376.6	8267.6	8080.9	7874.7	7706.2	7571.3	7435.2	7341.8	7232.9	7174.5	7144.7
5°	8383.0	8169.1	7776.2	7372.9	7012.4	6683.1	6369.3	6128.1	5902.5	5780.6	5746.9
7.5°	8410.3	8088.7	7453.3	6789.4	6148.9	5564.1	5112.8	4830.1	4626.6	4535.8	4509.9
10°	8432.3	7994.0	7053.9	6071.1	5199.7	4607.1	4257.0	4098.8	4028.8	4017.1	4005.4
12.5°	8484.2	7896.8	6633.8	5321.6	4461.9	4052.1	3930.2	3919.9	3939.3	3967.8	3967.8
15°	8565.9	7800.8	6154.0	4678.4	3992.5	3848.5	3873.2	3930.2	3983.4	4027.5	4034.0
17.5°	8625.5	7682.8	5638.0	4163.6	3742.2	3781.1	3869.3	3949.7	4004.1	4046.9	4050.8
20°	8668.3	7500.0	5086.9	3770.7	3598.3	3718.9	3829.1	3900.4	3938.0	3980.8	3987.3
22.5°	8646.3	7254.9	4598.0	3489.4	3481.6	3628.1	3733.1	3818.7	3790.2	3748.7	3775.9
25°	8539.9	6917.8	4094.9	3279.3	3358.4	3506.2	3635.9	3578.8	3482.9	3464.7	3475.1
27.5°	8350.6	6487.3	3629.4	3084.8	3215.8	3393.4	3385.6	3328.6	3294.9	3271.5	3285.8
30°	8147.0	6020.5	3222.2	2914.9	3057.6	3204.1	3174.3	3173.0	3139.3	3101.7	3119.8
32.5°	7946.1	5551.1	2899.4	2774.9	2938.3	2957.7	3022.6	3042.0	2975.9	2896.8	2891.6
35°	7771.0	5107.6	2654.3	2647.8	2794.3	2796.9	2891.6	2864.4	2699.7	2618.0	2618.0
37.5°	7640.0	4665.5	2467.6	2533.7	2605.0	2672.5	2720.4	2607.6	2580.4	2535.0	2533.7
40°	7583.0	4276.4	2350.9	2446.8	2471.5	2557.1	2433.9	2478.0	2490.9	2467.6	2467.6
42.5°	7523.3	3938.0	2249.7	2380.7	2376.8	2365.1	2302.9	2360.0	2411.8	2413.1	2409.2
45°	7463.7	3646.3	2160.3	2239.4	2293.8	2168.0	2179.7	2240.7	2313.3	2339.2	2339.2
47.5°	7397.6	3415.5	2078.6	2090.2	2174.5	2090.2	2081.2	2127.9	2213.4	2254.9	2264.0
50°	7252.3	3208.0	1985.2	1959.3	1982.6	2011.2	2018.9	2041.0	2135.6	2201.8	2217.3
52.5°	7051.3	3022.6	1865.9	1838.7	1838.7	1946.3	1982.6	1989.1	2069.5	2148.6	2164.2
55°	6884.1	2904.6	1742.7	1737.6	1732.4	1877.6	1939.8	1950.2	2006.0	2068.2	2076.0
57°	6895.7	2895.5	1648.1	1653.3	1652.0	1807.6	1899.6	1921.7	1950.2	2003.4	2012.4
57.5°	6902.2	2902.0	1627.3	1629.9	1628.6	1788.1	1888.0	1912.6	1934.6	1990.4	1999.5
60°	6999.5	2918.8	1543.0	1514.5	1521.0	1684.4	1821.8	1853.0	1867.2	1941.1	1952.8
62.5°	6855.5	2843.6	1475.6	1406.9	1406.9	1575.5	1729.8	1779.0	1801.1	1900.9	1920.4
65°	6438.0	2632.3	1396.5	1285.0	1298.0	1466.5	1619.6	1699.9	1733.7	1858.1	1878.9
67.5°	5793.6	2387.2	1312.2	1176.1	1189.1	1352.4	1505.4	1592.3	1645.5	1811.5	1828.3
70°	4954.6	2087.7	1198.1	1060.7	1076.2	1228.0	1370.6	1469.1	1548.2	1767.4	1772.6
72.5°	3652.7	1711.6	1038.6	933.6	950.5	1082.7	1234.4	1348.5	1454.9	1657.2	1654.6
75°	2171.9	1338.2	862.3	805.2	816.9	940.1	1111.3	1250.0	1409.5	1614.4	1639.0
77.5°	1317.4	1007.5	702.8	674.3	688.5	814.3	1023.1	1170.9	1390.0	1522.3	1514.5
80°	796.2	719.7	561.5	543.3	557.6	696.3	946.6	1111.3	1215.0	1300.6	1300.6
82.5°	416.2	439.6	412.3	398.1	417.5	565.4	861.0	969.9	1073.7	921.9	861.0
85°	169.9	229.5	250.3	249.0	260.6	391.6	743.0	829.9	692.4	657.4	673.0
87.5°	57.1	97.3	121.9	105.0	110.2	246.4	514.8	400.7	475.9	331.9	315.1
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)