

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: P321084

Luminaire Tested: **GAN-SA0B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321084
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-SA0B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42659 lumens
Efficiency: N/A
Efficacy: 101.8 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): 419
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

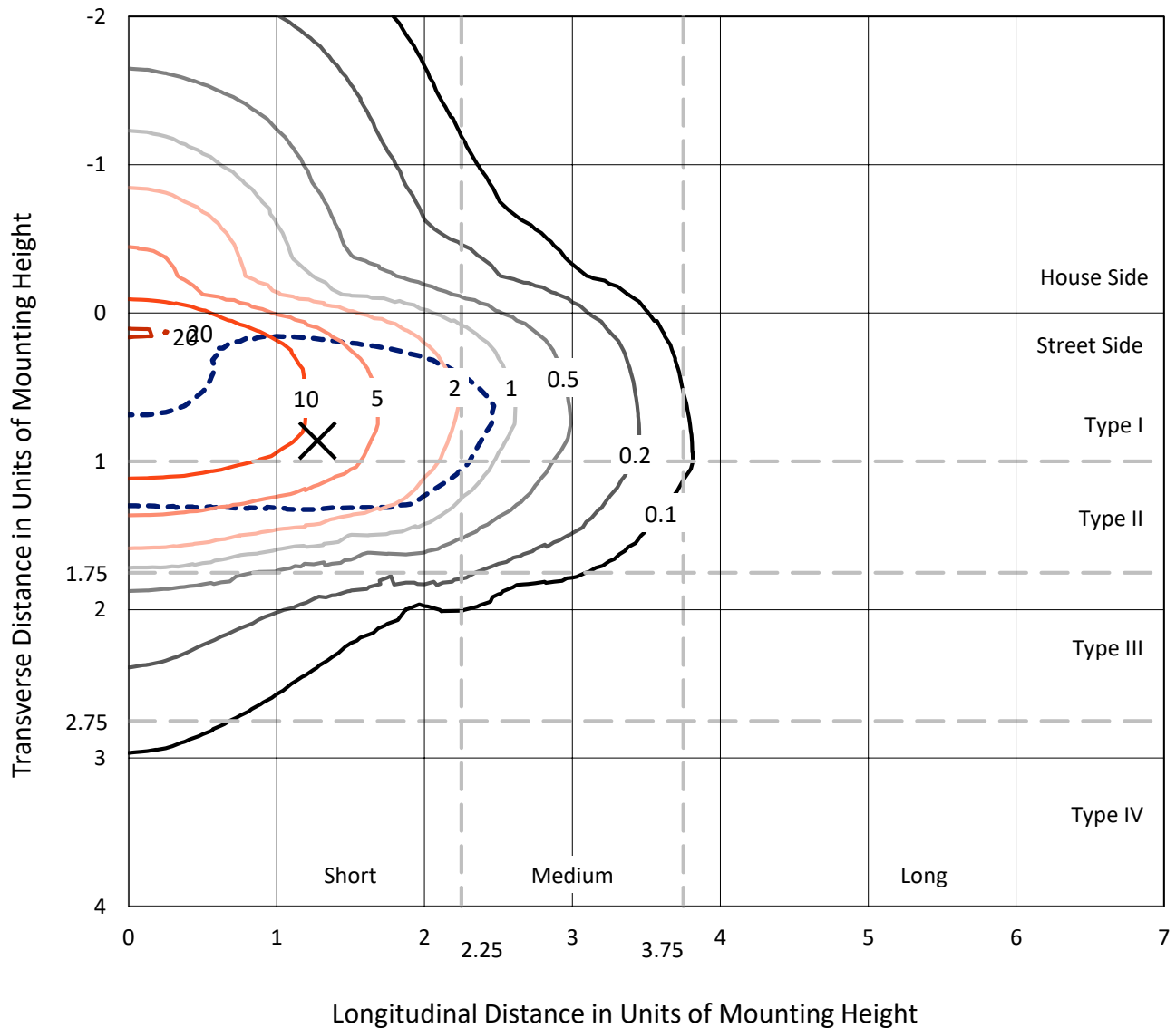


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Iso-Footcandle Lines of Horizontal Illumination

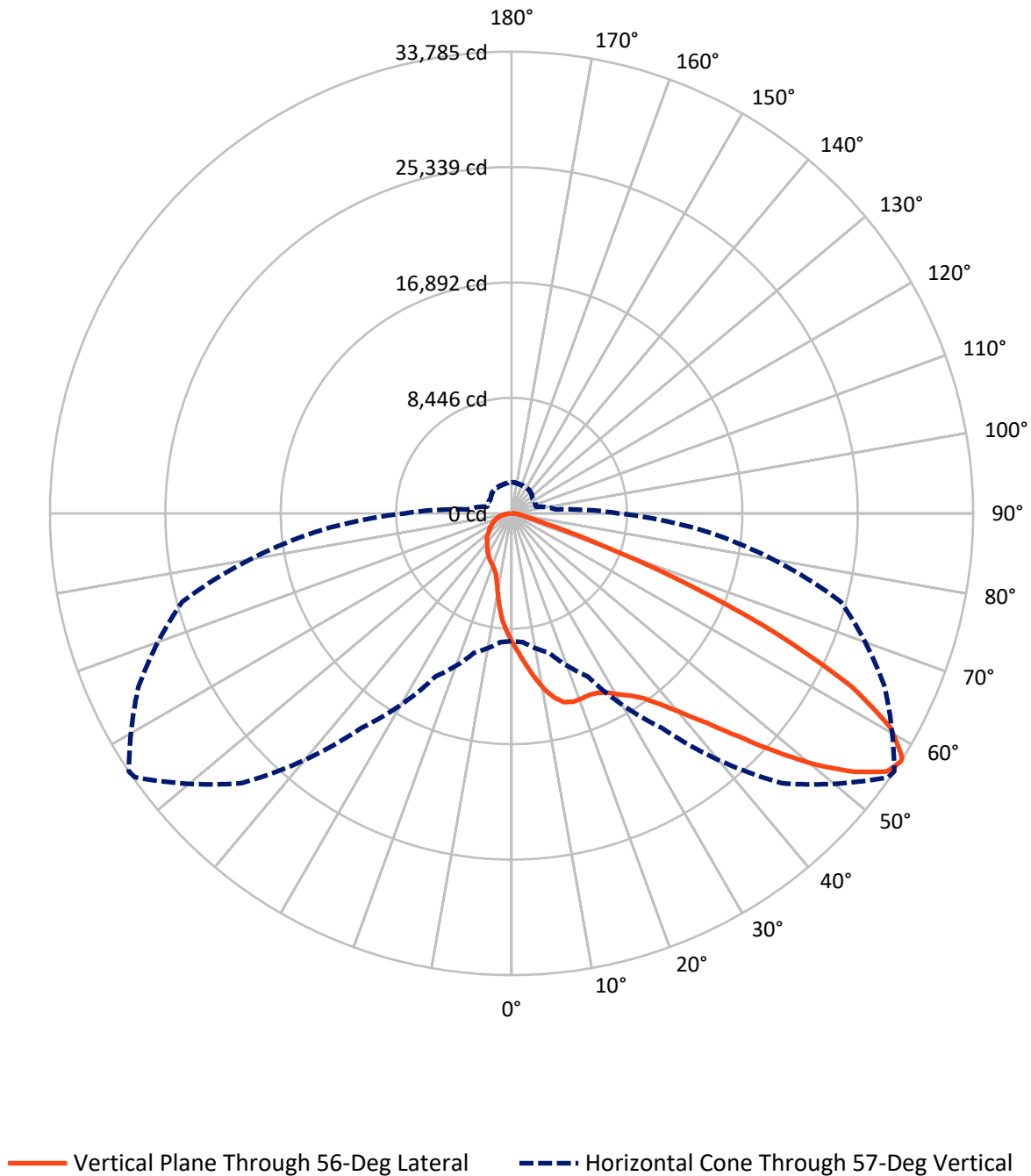
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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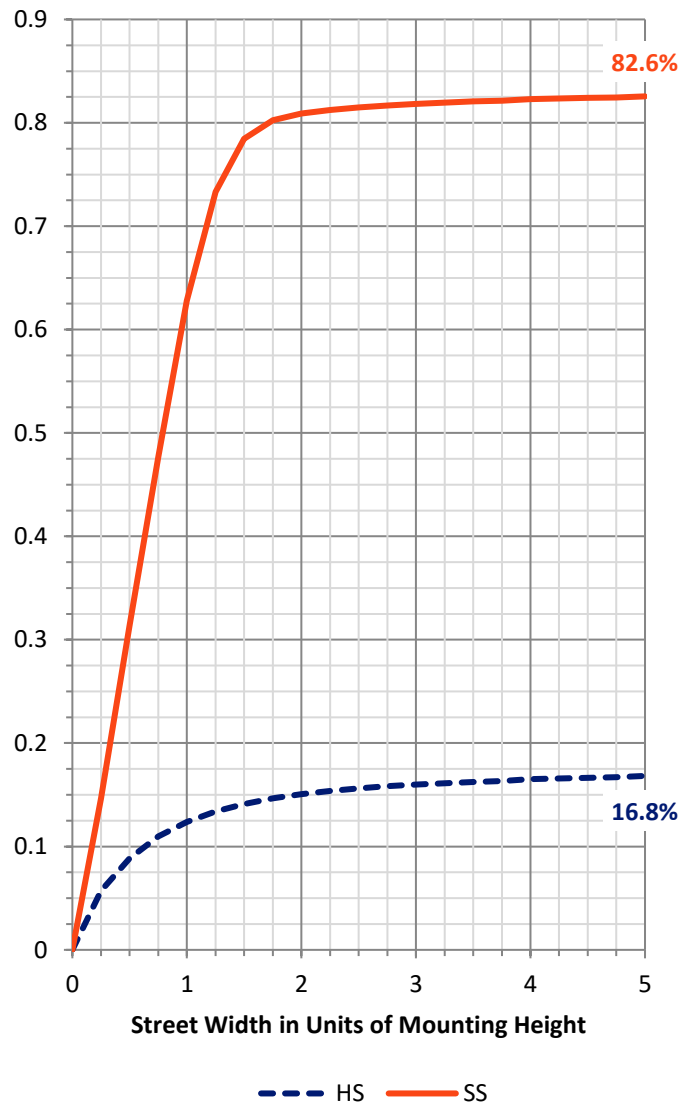
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7353.5	0.0	7353.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	35305.5	0.0	35305.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	42659.0	0.0	42659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.8	2.1
10°-20°	2555.4	6.0
20°-30°	4162.2	9.8
30°-40°	6222.0	14.6
40°-50°	9437.5	22.1
50°-60°	10577.8	24.8
60°-70°	6247.6	14.6
70°-80°	2047.0	4.8
80°-90°	505.7	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°	42659.0	100.0
0°-180°	42659.0	100.0

Coefficient of Utilization



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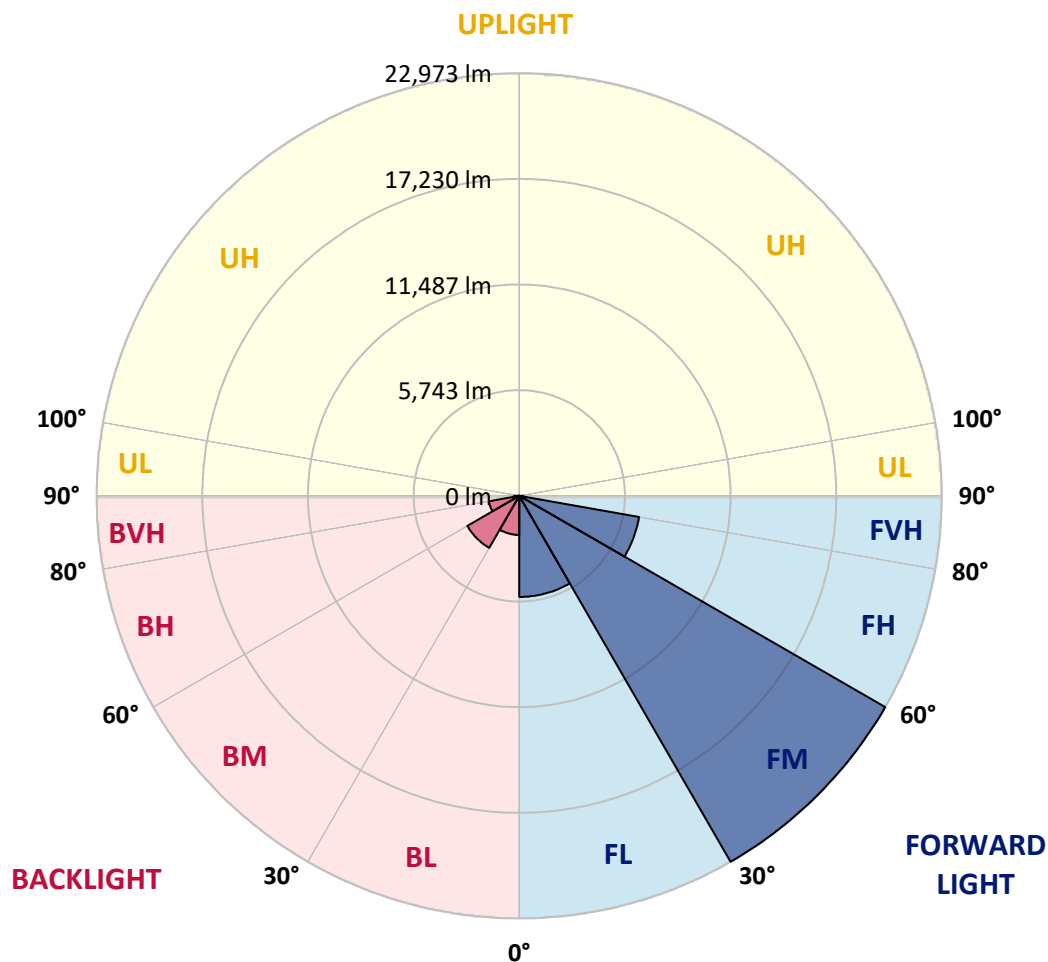
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5495.1	12.9			
FM	(30°-60°)	22973.3	53.9			
FH	(60°-80°)	6614.4	15.5			G3/7500
FVH	(80°-90°)	222.7	0.5			G2/225
BL	(0°-30°)	2126.3	5.0	B3/2500		
BM	(30°-60°)	3264.0	7.7	B3/5000		
BH	(60°-80°)	1680.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	283.0	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°	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8
2.5°	10864.8	10964.5	10920.5	10768.0	10650.8	10485.1	10300.4	10244.7	10049.7	9831.2	9568.8
5°	12584.5	12534.6	12462.8	12225.3	11974.6	11682.9	11219.6	11146.3	10712.3	10218.3	9696.4
7.5°	13563.8	13559.4	13516.9	13377.6	13148.9	12767.7	12209.2	12122.7	11467.3	10672.8	9863.5
10°	13421.6	13411.3	13481.7	13626.8	13695.7	13616.6	13146.0	13059.5	12254.6	11175.6	10057.0
12.5°	12613.8	12619.6	12732.5	13037.5	13452.4	13950.8	13874.6	13832.1	13071.2	11744.4	10291.6
15°	11984.9	11998.0	12087.5	12352.8	12842.5	13747.0	14317.3	14332.0	13861.4	12371.9	10565.7
17.5°	11709.2	11737.1	11778.1	11964.3	12412.9	13340.9	14422.9	14502.0	14553.4	13022.8	10829.6
20°	11797.2	11823.6	11835.3	11954.1	12322.0	13094.6	14349.6	14491.8	15084.1	13635.6	11093.5
22.5°	12191.6	12207.7	12215.0	12245.8	12531.7	13165.0	14301.2	14450.7	15468.2	14185.4	11292.9
25°	12845.4	12833.7	12786.8	12747.2	12939.2	13443.6	14412.6	14554.8	15780.4	14683.8	11423.4
27.5°	13628.3	13613.6	13522.7	13414.2	13524.2	13877.5	14733.7	14846.6	16060.4	15150.0	11489.3
30°	14568.0	14529.9	14358.4	14229.4	14271.9	14528.4	15262.9	15365.5	16492.9	15679.3	11553.8
32.5°	15654.3	15613.3	15365.5	15151.5	15151.5	15365.5	15808.3	15893.3	16859.4	16277.4	11657.9
35°	17014.8	16963.5	16641.0	16281.8	16180.7	16289.1	16551.6	16611.7	17519.1	17031.0	11847.0
37.5°	18618.7	18549.8	18131.9	17651.1	17429.7	17423.9	17613.0	17736.1	18573.2	18020.5	12168.1
40°	20226.9	20178.5	19813.5	19435.3	19001.3	18862.0	19153.8	19191.9	19951.3	19249.1	12578.6
42.5°	21470.1	21461.3	21393.9	21443.7	20999.5	20718.0	20946.7	20977.5	21634.3	20578.8	13015.5
45°	22126.9	22141.6	22468.5	23192.7	23356.9	23151.7	23264.5	23273.3	23557.8	21920.2	13415.7
47.5°	21600.6	21676.8	22503.7	24123.6	25468.0	26149.7	25962.1	26070.5	25422.6	23072.5	13729.4
50°	19549.6	19643.4	21050.8	23708.8	26453.2	29051.0	28952.8	28927.8	26926.7	23916.9	13899.5
52.5°	17009.0	17082.3	18243.4	21552.2	25730.4	30654.8	31556.5	31427.4	28263.7	24548.8	13931.8
55°	13140.1	13254.4	14367.2	17247.9	22807.1	30042.0	33471.1	33355.3	29482.0	24880.1	13893.6
57°	9341.6	9461.8	10567.2	13163.5	19186.0	27920.7	33661.7	33784.8	30140.3	24935.8	13936.2
57.5°	8335.9	8459.0	9554.2	12075.7	18057.2	27153.9	33497.5	33702.7	30259.0	24927.0	13959.6
60°	4197.3	4244.2	4942.0	6740.8	11414.6	21952.4	31355.6	31884.8	30366.0	24496.0	14060.8
62.5°	2609.5	2575.8	2553.8	3105.1	5553.3	14557.8	26935.5	27954.4	28318.0	23452.2	13815.9
65°	2294.3	2231.3	1989.4	1945.4	2452.7	7070.7	20284.1	21552.2	23941.9	21807.3	13232.5
67.5°	2155.1	2093.5	1820.8	1656.6	1658.1	2803.1	12593.3	14021.2	18650.9	19026.2	11855.8
70°	2011.4	1955.7	1700.6	1507.1	1411.8	1552.5	5793.8	6877.2	12157.8	14955.0	9908.9
72.5°	1826.7	1788.6	1546.7	1347.3	1246.1	1162.6	2218.1	2619.8	7038.4	10043.8	6881.6
75°	1633.2	1598.0	1391.3	1200.7	1077.5	914.8	1249.1	1345.8	3575.7	5138.5	3388.0
77.5°	1420.6	1400.1	1237.3	1061.4	963.2	757.9	884.0	930.9	1533.5	2203.5	1699.1
80°	1130.3	1169.9	1081.9	945.6	854.7	606.9	626.0	656.8	892.8	1076.1	964.7
82.5°	736.0	804.9	847.4	768.2	703.7	477.9	450.1	463.3	582.0	656.8	419.3
85°	306.4	344.5	557.1	502.9	467.7	348.9	302.0	307.9	360.6	373.8	171.5
87.5°	136.3	145.1	244.8	230.2	197.9	120.2	129.0	140.7	192.1	181.8	66.0
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°	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8	9461.8
2.5°	9470.6	9347.5	9136.3	8903.2	8712.7	8560.2	8406.3	8300.7	8177.6	8111.6	8077.9
5°	9477.9	9236.0	8791.8	8335.9	7928.3	7556.0	7201.2	6928.5	6673.4	6535.6	6497.5
7.5°	9508.7	9145.1	8426.8	7676.2	6951.9	6290.8	5780.6	5461.0	5230.8	5128.2	5098.9
10°	9533.6	9038.1	7975.2	6864.0	5878.8	5208.8	4813.0	4634.1	4555.0	4541.8	4528.6
12.5°	9592.3	8928.2	7500.2	6016.6	5044.6	4581.4	4443.6	4431.8	4453.8	4486.1	4486.1
15°	9684.6	8819.7	6957.8	5289.5	4513.9	4351.2	4379.1	4443.6	4503.7	4553.5	4560.8
17.5°	9752.1	8686.3	6374.3	4707.4	4231.0	4275.0	4374.7	4465.5	4527.1	4575.5	4579.9
20°	9800.5	8479.6	5751.3	4263.2	4068.3	4204.6	4329.2	4409.8	4452.4	4500.7	4508.1
22.5°	9775.5	8202.5	5198.6	3945.1	3936.3	4102.0	4220.7	4317.5	4285.2	4238.3	4269.1
25°	9655.3	7821.3	4629.7	3707.6	3797.0	3964.2	4110.8	4046.3	3937.8	3917.3	3929.0
27.5°	9441.3	7334.6	4103.4	3487.7	3635.8	3836.6	3827.8	3763.3	3725.2	3698.8	3714.9
30°	9211.1	6806.8	3643.1	3295.7	3456.9	3622.6	3588.9	3587.4	3549.3	3506.8	3527.3
32.5°	8983.9	6276.1	3278.1	3137.3	3322.0	3344.0	3417.3	3439.3	3364.6	3275.1	3269.3
35°	8786.0	5774.7	3001.0	2993.6	3159.3	3162.2	3269.3	3238.5	3052.3	2959.9	2959.9
37.5°	8637.9	5274.8	2789.9	2864.6	2945.3	3021.5	3075.7	2948.2	2917.4	2866.1	2864.6
40°	8573.4	4835.0	2657.9	2766.4	2794.3	2891.0	2751.8	2801.6	2816.3	2789.9	2789.9
42.5°	8505.9	4452.4	2543.6	2691.6	2687.2	2674.1	2603.7	2668.2	2726.8	2728.3	2723.9
45°	8438.5	4122.5	2442.4	2531.8	2593.4	2451.2	2464.4	2533.3	2615.4	2644.7	2644.7
47.5°	8363.7	3861.5	2350.1	2363.3	2458.5	2363.3	2353.0	2405.8	2502.5	2549.4	2559.7
50°	8199.5	3627.0	2244.5	2215.2	2241.6	2273.8	2282.6	2307.5	2414.6	2489.3	2506.9
52.5°	7972.3	3417.3	2109.6	2078.8	2078.8	2200.5	2241.6	2248.9	2339.8	2429.2	2446.8
55°	7783.2	3283.9	1970.4	1964.5	1958.6	2122.8	2193.2	2204.9	2268.0	2338.3	2347.1
57°	7796.4	3273.7	1863.3	1869.2	1867.7	2043.7	2147.7	2172.7	2204.9	2265.0	2275.3
57.5°	7803.7	3281.0	1839.9	1842.8	1841.3	2021.7	2134.6	2162.4	2187.3	2250.4	2260.6
60°	7913.7	3300.1	1744.6	1712.3	1719.7	1904.4	2059.8	2095.0	2111.1	2194.7	2207.9
62.5°	7750.9	3215.0	1668.4	1590.7	1590.7	1781.2	1955.7	2011.4	2036.3	2149.2	2171.2
65°	7278.9	2976.1	1578.9	1452.8	1467.5	1658.1	1831.1	1922.0	1960.1	2100.8	2124.3
67.5°	6550.3	2699.0	1483.6	1329.7	1344.4	1529.1	1702.1	1800.3	1860.4	2048.1	2067.1
70°	5601.7	2360.3	1354.6	1199.2	1216.8	1388.3	1549.6	1661.0	1750.4	1998.2	2004.1
72.5°	4129.8	1935.2	1174.3	1055.5	1074.6	1224.1	1395.7	1524.7	1644.9	1873.6	1870.7
75°	2455.6	1513.0	974.9	910.4	923.6	1062.9	1256.4	1413.3	1593.6	1825.2	1853.1
77.5°	1489.5	1139.1	794.6	762.3	778.5	920.7	1156.7	1323.8	1571.6	1721.1	1712.3
80°	900.1	813.7	634.8	614.3	630.4	787.3	1070.2	1256.4	1373.7	1470.4	1470.4
82.5°	470.6	497.0	466.2	450.1	472.1	639.2	973.4	1096.6	1213.9	1042.4	973.4
85°	192.1	259.5	282.9	281.5	294.7	442.7	840.0	938.3	782.9	743.3	760.9
87.5°	64.5	110.0	137.8	118.7	124.6	278.5	582.0	453.0	538.0	375.3	356.2
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)