

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: P318581

Luminaire Tested: **GAN-SA7D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43620 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

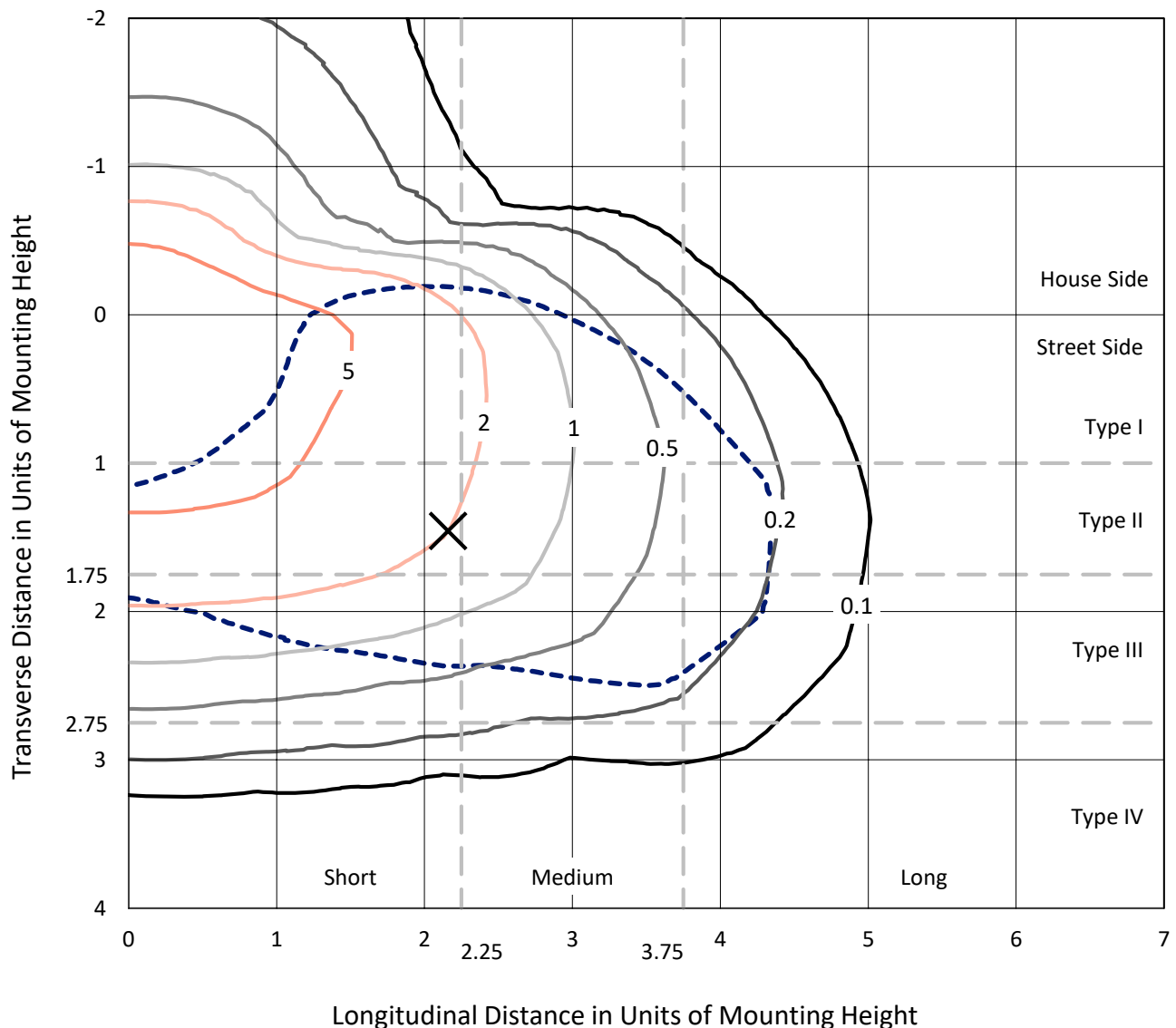
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

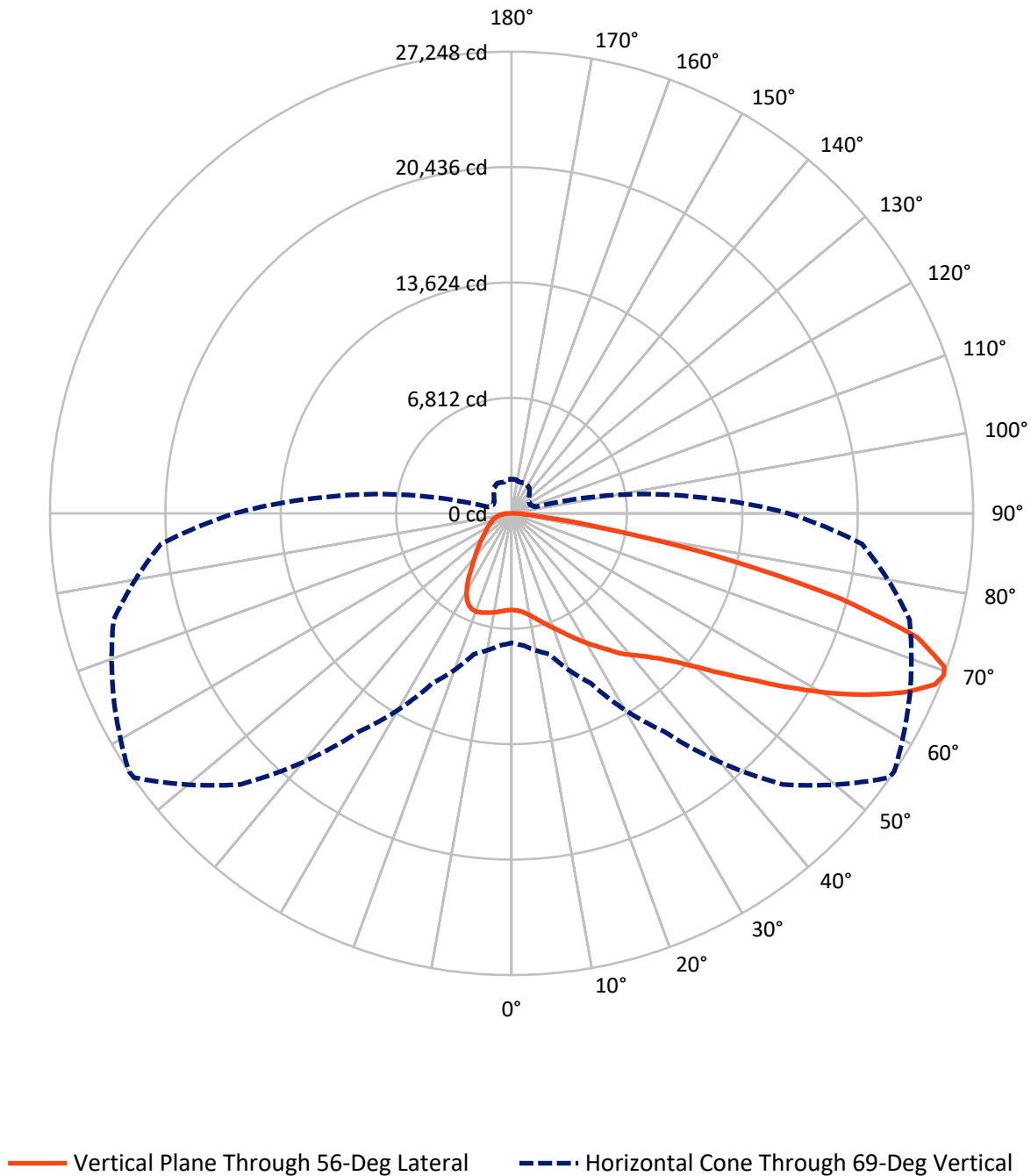
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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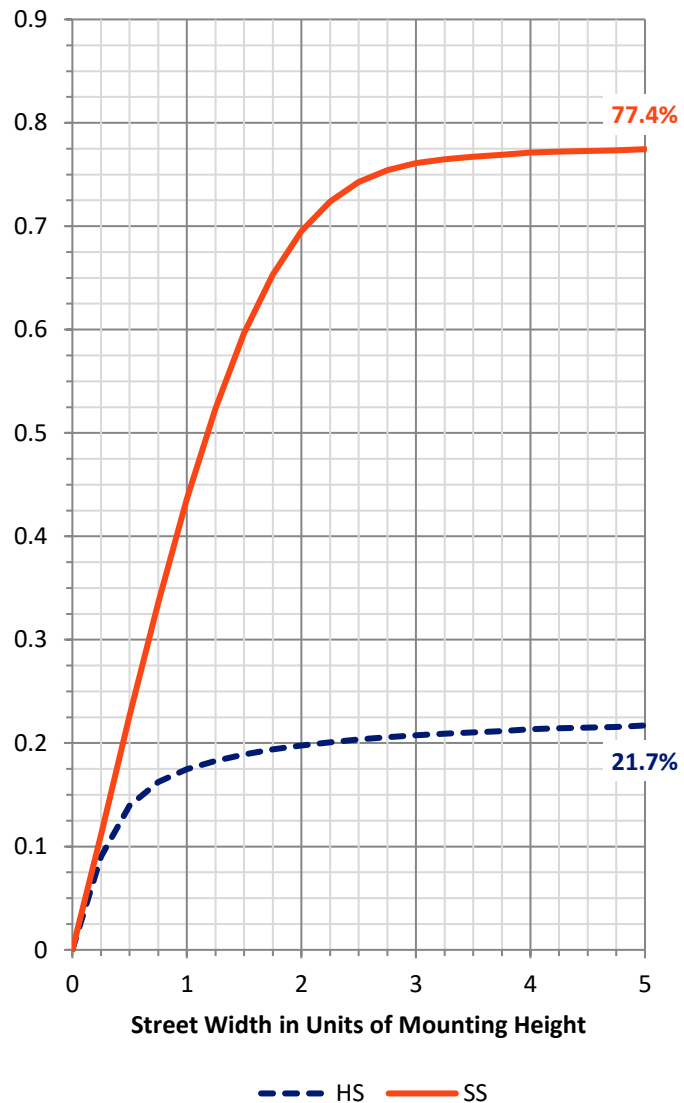
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9714.1	0.0	9714.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33905.9	0.0	33905.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	43620.0	0.0	43620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.1	1.3
10°-20°	1801.0	4.1
20°-30°	3143.9	7.2
30°-40°	4516.1	10.4
40°-50°	6250.1	14.3
50°-60°	9157.2	21.0
60°-70°	11164.3	25.6
70°-80°	6172.4	14.2
80°-90°	854.9	2.0
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°	43620.0	100.0
0°-180°	43620.0	100.0

Coefficient of Utilization



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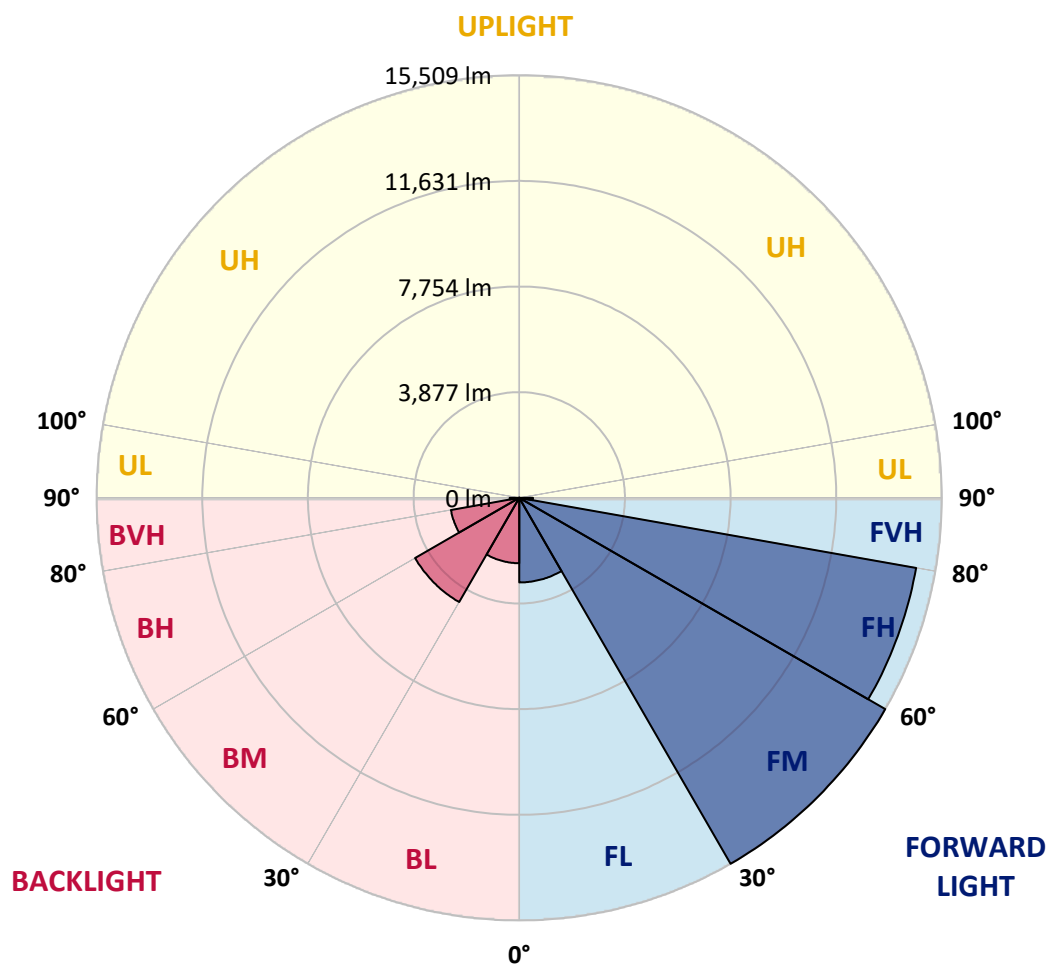
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3104.5	7.1			
FM	(30°-60°)	15508.5	35.6			
FH	(60°-80°)	14789.4	33.9			G5
FVH	(80°-90°)	503.6	1.2			G4/750
BL	(0°-30°)	2400.6	5.5	B3/2500		
BM	(30°-60°)	4414.8	10.1	B3/5000		
BH	(60°-80°)	2547.3	5.8	B4/5000		G4/5000
BVH	(80°-90°)	351.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7
2.5°	5738.7	5744.7	5740.2	5752.2	5738.7	5747.7	5740.2	5740.2	5735.7	5722.2	5707.2
5°	5828.9	5840.9	5833.4	5845.4	5828.9	5831.9	5818.4	5818.4	5804.8	5776.3	5746.2
7.5°	5970.1	5983.7	5977.6	5989.7	5967.1	5967.1	5949.1	5947.6	5920.5	5874.0	5839.4
10°	6138.4	6156.5	6150.5	6168.5	6150.5	6156.5	6138.4	6138.4	6102.4	6036.3	5992.7
12.5°	6383.4	6405.9	6389.4	6387.9	6380.4	6392.4	6377.4	6374.4	6341.3	6251.1	6191.0
15°	6711.0	6735.0	6700.4	6697.4	6655.4	6650.8	6650.8	6646.3	6625.3	6517.1	6417.9
17.5°	7088.1	7095.6	7065.6	7017.5	6963.4	6928.8	6924.3	6936.4	6936.4	6810.1	6652.4
20°	7457.8	7471.3	7447.3	7393.2	7324.0	7273.0	7236.9	7260.9	7259.4	7109.2	6885.3
22.5°	7860.5	7892.1	7856.0	7786.9	7705.7	7648.6	7585.5	7606.5	7608.1	7423.2	7113.7
25°	8381.9	8353.4	8330.8	8233.2	8117.5	8058.9	8000.3	8021.3	8015.3	7761.3	7349.6
27.5°	8843.3	8849.3	8819.2	8715.5	8581.8	8452.6	8449.6	8463.1	8440.5	8113.0	7572.0
30°	9379.7	9382.7	9340.6	9247.5	9101.7	8934.9	8895.8	8918.4	8870.3	8446.5	7806.4
32.5°	9913.2	9928.2	9881.6	9768.9	9651.7	9448.8	9370.7	9385.7	9265.5	8787.7	8048.3
35°	10380.5	10401.5	10386.5	10311.4	10183.6	10009.3	9916.2	9907.1	9758.4	9205.4	8368.4
37.5°	10856.8	10876.4	10859.8	10796.7	10745.6	10560.8	10511.2	10511.2	10252.8	9632.2	8775.6
40°	11346.7	11376.8	11357.2	11270.1	11226.5	11142.3	11023.6	10995.1	10715.6	10144.6	9439.8
42.5°	11802.0	11841.1	11919.2	11868.1	11779.5	11791.5	11552.6	11537.6	11333.2	10901.9	10273.8
45°	12448.2	12505.3	12637.5	12598.4	12580.4	12514.3	12230.3	12216.8	12138.6	11920.7	11309.1
47.5°	13152.9	13231.1	13470.0	13477.5	13671.4	13546.6	13160.4	13113.9	13131.9	13140.9	12572.9
50°	13802.1	13887.7	14279.9	14464.8	14921.6	14948.6	14331.0	14289.0	14359.6	14566.9	14045.5
52.5°	14320.5	14428.7	14918.6	15489.6	16272.5	16494.9	15772.1	15740.5	15793.1	16150.8	15710.5
55°	14700.7	14817.9	15351.3	16391.2	17641.4	18033.6	17431.1	17401.0	17434.1	17889.4	17521.2
57.5°	14789.3	14817.9	15591.8	16998.3	18797.0	19739.2	19461.2	19401.1	19238.8	19635.5	19519.8
60°	14373.1	14487.3	15393.4	17211.7	19691.1	21420.7	21582.9	21507.8	21052.5	21377.1	21283.9
62.5°	13528.6	13733.0	14652.6	16887.1	20041.2	22794.1	23664.2	23574.0	22789.6	23000.0	22552.2
65°	12149.1	12236.3	13202.5	15767.6	19596.4	23673.2	25520.0	25474.9	24487.6	24158.5	22786.6
67.5°	9681.7	9845.5	10666.0	13427.9	17776.7	23569.5	26955.0	26950.5	25596.6	24588.3	21955.6
69°	7648.6	7818.4	8599.8	11061.2	15730.0	22621.3	27195.4	27248.0	25909.2	24326.8	20768.5
70°	6097.9	6294.7	6831.2	9316.6	13913.3	21371.1	26995.6	27090.3	25849.0	23895.6	19673.0
72.5°	2595.1	2754.4	3136.1	4802.6	8479.6	15958.4	24683.0	25040.6	24456.1	21870.0	16259.0
75°	1133.0	1182.6	1355.4	1958.0	3764.2	8685.5	19336.4	19997.6	20911.3	18485.9	12111.6
77.5°	829.5	850.5	945.2	1149.5	1689.0	3280.3	12434.7	12819.3	15080.9	13452.0	7429.2
80°	641.6	656.7	730.3	844.5	1103.0	1326.9	5671.1	6001.7	8479.6	6909.3	3094.0
82.5°	510.9	521.4	572.5	622.1	761.9	803.9	1882.9	2088.7	3130.1	1908.4	819.0
85°	474.8	486.9	504.9	453.8	488.4	471.8	814.5	852.0	945.2	749.8	342.6
87.5°	214.9	254.0	500.4	353.1	260.0	207.4	333.6	348.6	392.2	393.7	151.8
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°	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7
2.5°	5716.2	5711.7	5719.2	5701.2	5723.7	5722.2	5714.7	5717.7	5732.7	5731.2	5732.7
5°	5750.7	5747.7	5756.8	5743.2	5770.3	5779.3	5780.8	5794.3	5810.9	5815.4	5815.4
7.5°	5837.9	5837.9	5842.4	5824.4	5842.4	5840.9	5833.4	5846.9	5863.4	5864.9	5863.4
10°	5988.2	5989.7	5982.2	5935.6	5920.5	5880.0	5842.4	5843.9	5864.9	5881.5	5886.0
12.5°	6177.5	6171.5	6138.4	6052.8	5989.7	5907.0	5868.0	5866.5	5887.5	5901.0	5905.5
15°	6393.9	6377.4	6291.7	6152.0	6040.8	5959.6	5896.5	5881.5	5869.5	5854.4	5855.9
17.5°	6598.3	6560.7	6417.9	6224.1	6106.9	5998.7	5877.0	5779.3	5711.7	5672.6	5660.6
20°	6805.6	6732.0	6526.1	6291.7	6142.9	5946.1	5711.7	5513.3	5390.1	5333.0	5322.5
22.5°	6995.0	6876.2	6626.8	6362.3	6114.4	5768.8	5400.6	5112.1	4940.8	4864.2	4870.2
25°	7179.8	7014.5	6732.0	6411.9	5970.1	5456.2	4967.8	4613.2	4414.9	4329.2	4326.2
27.5°	7342.1	7154.2	6846.2	6371.3	5701.2	5011.4	4455.4	4109.8	3944.5	3870.9	3858.9
30°	7528.4	7330.1	6998.0	6216.6	5307.5	4497.5	3955.0	3711.6	3594.4	3520.8	3507.2
32.5°	7755.3	7569.0	7122.7	5935.6	4804.1	3961.1	3564.3	3394.5	3287.9	3205.2	3190.2
35°	8085.9	7884.5	7154.2	5532.9	4251.1	3537.3	3277.3	3103.0	2958.8	2852.1	2841.6
37.5°	8500.6	8279.7	7082.1	5011.4	3714.6	3262.3	3038.4	2823.5	2635.7	2485.4	2461.4
40°	9098.7	8765.1	6882.3	4410.4	3319.4	3050.4	2805.5	2560.6	2327.6	2151.8	2117.3
42.5°	9817.0	9334.6	6575.7	3812.3	3029.4	2835.6	2574.1	2270.5	2048.1	1923.4	1905.4
45°	10730.6	9926.7	6150.5	3289.4	2743.9	2620.7	2324.6	2045.1	1906.9	1815.2	1800.2
47.5°	11773.5	10590.9	5704.2	2864.1	2502.0	2419.3	2124.8	1944.5	1834.8	1762.6	1749.1
50°	13055.3	11340.7	5230.8	2515.5	2258.5	2177.4	2030.1	1888.9	1801.7	1746.1	1732.6
52.5°	14500.8	12186.7	4889.7	2240.5	2057.2	1998.6	1980.5	1858.8	1788.2	1746.1	1732.6
55°	16057.6	13047.7	4521.6	2009.1	1882.9	1899.4	1947.5	1861.8	1813.7	1762.6	1743.1
57.5°	17615.9	13937.3	4111.3	1813.7	1744.6	1825.8	1924.9	1867.8	1827.3	1777.7	1759.6
60°	18848.1	14500.8	3475.7	1649.9	1634.9	1744.6	1870.8	1822.7	1770.2	1771.7	1768.7
62.5°	19423.6	14470.8	2773.9	1504.2	1525.2	1634.9	1783.7	1752.1	1708.5	1767.1	1771.7
65°	19100.5	13749.5	2159.3	1371.9	1408.0	1520.7	1693.5	1717.6	1732.6	1845.3	1860.3
67.5°	17745.1	12346.0	1672.5	1256.2	1301.3	1442.6	1702.5	1870.8	1890.4	2009.1	2007.6
69°	16343.1	11029.6	1453.1	1196.1	1248.7	1462.1	1819.7	1968.5	1894.9	2021.1	2003.1
70°	15168.0	9988.3	1335.9	1155.6	1224.7	1496.7	1897.9	1967.0	1872.3	1980.5	1950.5
72.5°	11681.8	7185.8	1133.0	1080.4	1143.5	1432.1	1920.4	1923.4	1819.7	1840.8	1789.7
75°	8012.3	4541.1	988.8	978.2	1020.3	1290.8	1848.3	1837.8	1683.0	1652.9	1610.9
77.5°	4417.9	2306.6	840.0	880.6	909.1	1143.5	1680.0	1665.0	1537.2	1474.1	1459.1
80°	1704.0	1009.8	709.3	782.9	800.9	990.3	1472.6	1459.1	1352.4	1271.3	1248.7
82.5°	643.1	528.9	586.0	677.7	671.7	817.5	1247.2	1239.7	1136.0	1017.3	981.2
85°	297.5	317.1	464.3	559.0	515.4	605.6	997.8	1011.3	885.1	743.8	743.8
87.5°	126.2	177.3	329.1	422.3	347.1	408.7	731.8	698.7	641.6	444.8	417.7
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)