

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: P319474

Luminaire Tested: **GAN-SA0A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33219 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

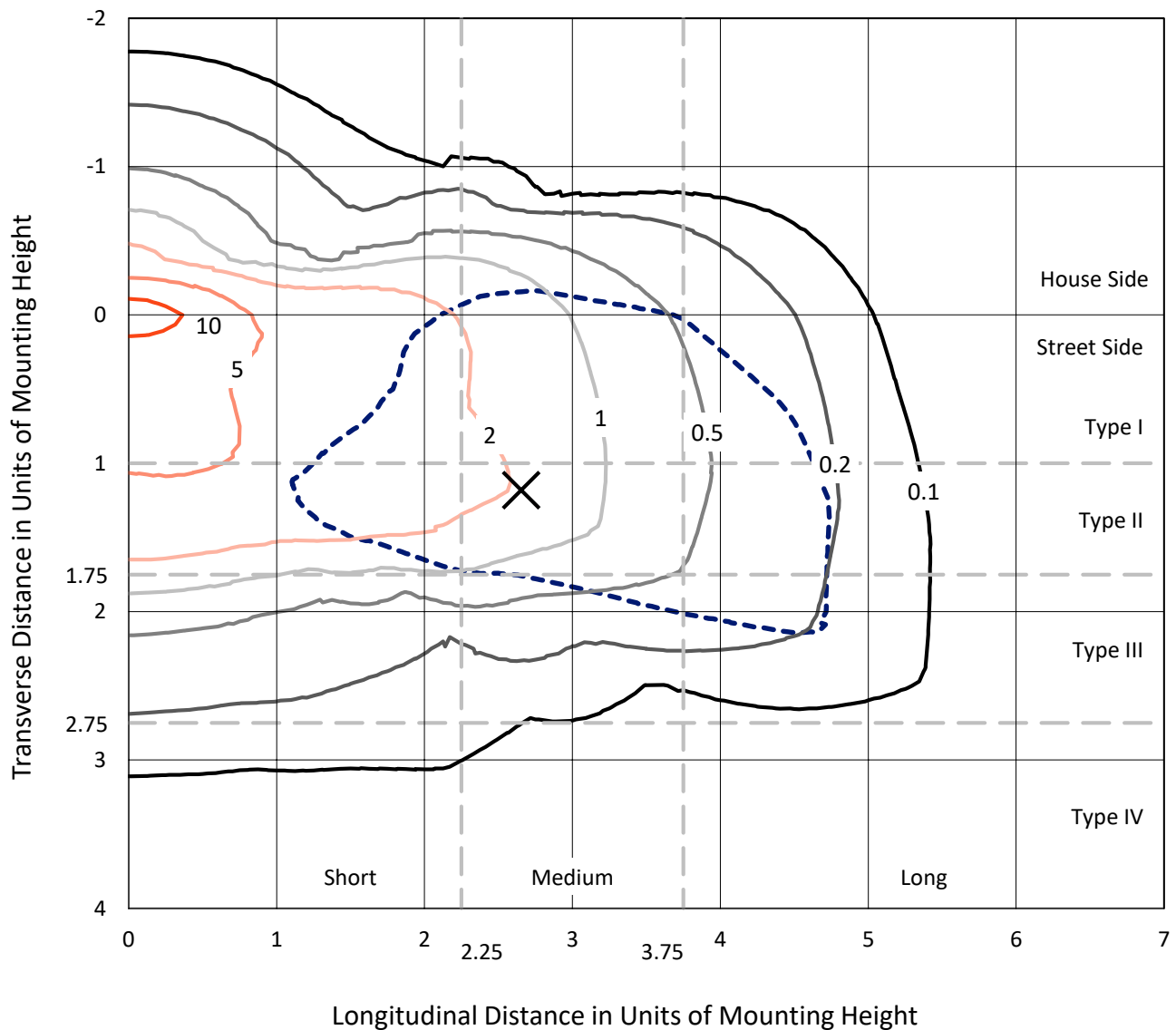


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Iso-Footcandle Lines of Horizontal Illumination

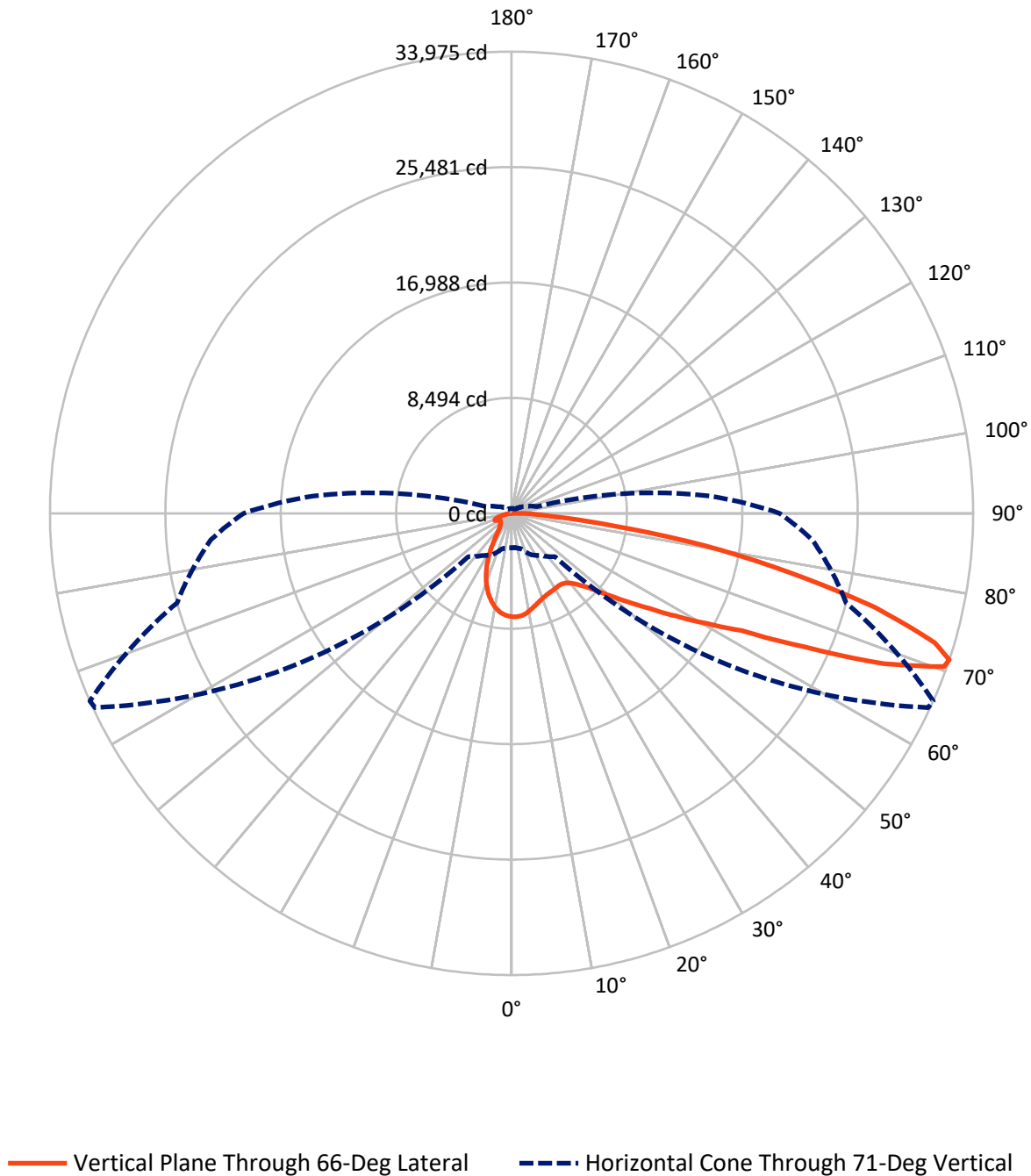
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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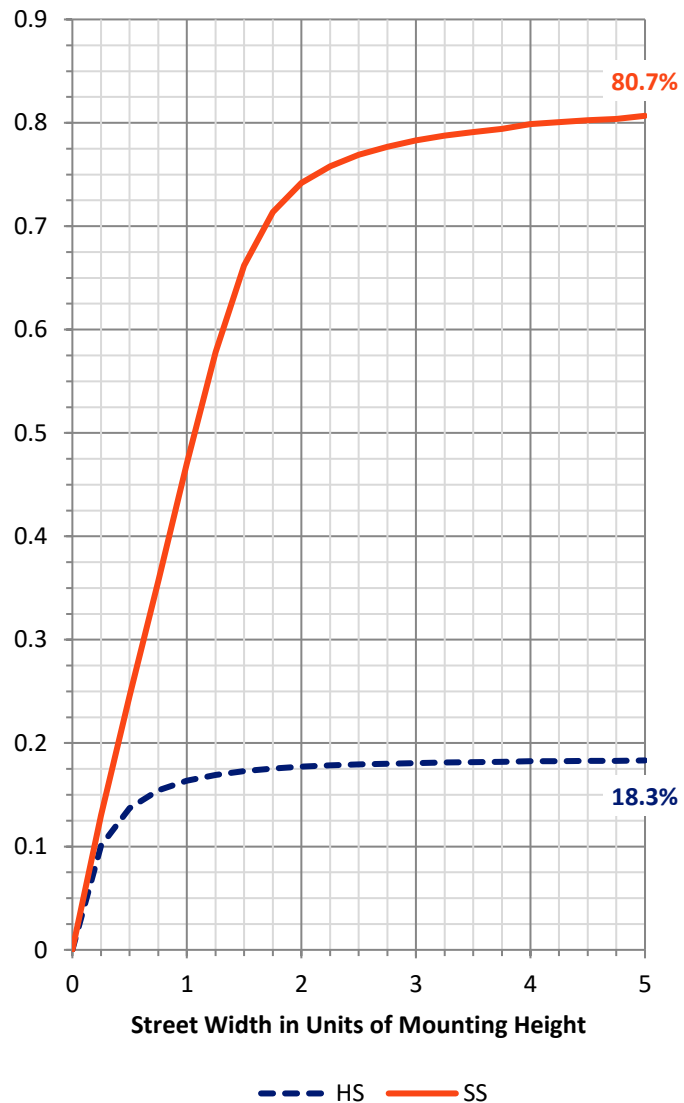
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6156.4	0.0	6156.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	27062.6	0.0	27062.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	33219.0	0.0	33219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.8	2.0
10°-20°	1606.6	4.8
20°-30°	2158.0	6.5
30°-40°	2838.9	8.5
40°-50°	4129.8	12.4
50°-60°	6451.2	19.4
60°-70°	8081.2	24.3
70°-80°	6164.1	18.6
80°-90°	1119.3	3.4
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°	33219.0	100.0
0°-180°	33219.0	100.0

Coefficient of Utilization



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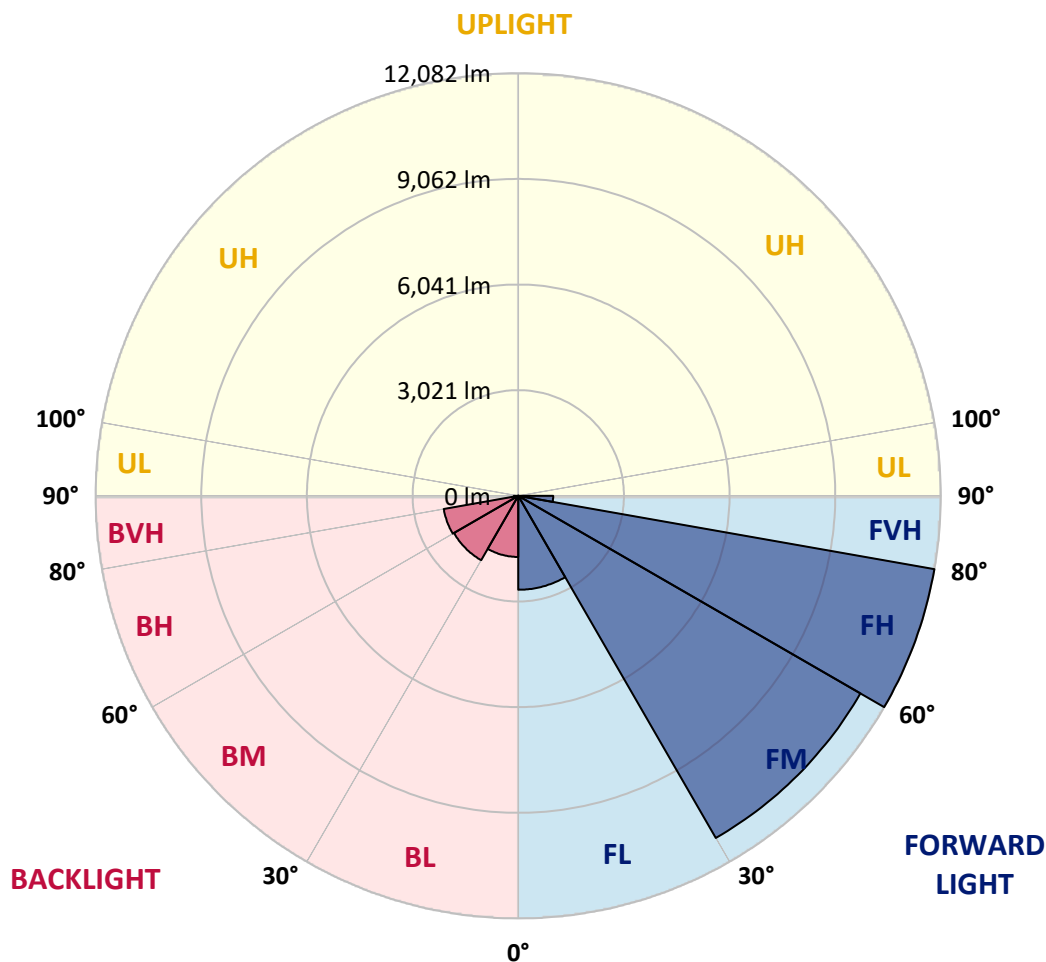
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2686.2	8.1			
FM	(30°-60°)	11296.1	34.0			
FH	(60°-80°)	12082.1	36.4			G5
FVH	(80°-90°)	998.2	3.0			G5
BL	(0°-30°)	1748.3	5.3	B3/2500		
BM	(30°-60°)	2123.8	6.4	B2/2500		
BH	(60°-80°)	2163.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	121.2	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	7468.8	7457.3	7491.7	7527.3	7541.0	7564.0	7598.4	7617.9	7616.7	7620.2	7608.7
5°	6973.3	6958.4	7027.2	7083.4	7191.2	7312.8	7460.7	7566.2	7568.5	7628.2	7644.2
7.5°	6504.2	6493.9	6573.0	6663.6	6788.6	6974.4	7214.1	7441.2	7455.0	7616.7	7672.9
10°	6128.0	6125.7	6202.6	6301.2	6446.9	6654.4	6929.7	7262.3	7283.0	7561.7	7677.5
12.5°	5834.4	5839.0	5905.5	6017.9	6171.6	6388.4	6686.6	7061.6	7094.9	7474.5	7651.1
15°	5617.6	5636.0	5689.9	5803.4	5954.8	6175.0	6481.3	6875.8	6926.3	7377.0	7636.2
17.5°	5493.8	5514.4	5552.3	5646.3	5788.5	6000.7	6290.9	6723.3	6769.1	7302.5	7637.4
20°	5457.1	5474.3	5496.1	5553.4	5673.8	5866.5	6140.6	6585.6	6634.9	7242.8	7648.8
22.5°	5529.3	5541.9	5544.2	5539.6	5613.0	5770.2	6031.7	6484.7	6537.5	7203.8	7656.9
25°	5684.1	5701.4	5688.7	5646.3	5622.2	5718.6	5975.5	6418.2	6470.9	7175.1	7640.8
27.5°	5917.0	5919.3	5908.9	5853.9	5740.3	5724.3	5958.3	6379.2	6429.6	7141.9	7607.5
30°	6233.5	6248.4	6230.1	6155.5	5969.7	5816.0	5978.9	6341.3	6387.2	7099.4	7553.6
32.5°	6604.0	6640.7	6639.5	6561.5	6295.5	6021.3	6063.8	6318.4	6353.9	7054.7	7488.3
35°	6988.2	7038.7	7132.7	7099.4	6770.3	6345.9	6226.6	6355.1	6379.2	7049.0	7442.4
37.5°	7387.3	7437.8	7631.6	7721.1	7335.7	6810.4	6483.6	6484.7	6496.2	7118.9	7438.9
40°	7804.8	7858.7	8150.0	8382.9	8068.6	7398.8	6897.6	6755.4	6742.8	7291.0	7506.6
42.5°	8389.7	8437.9	8787.7	9084.8	8881.8	8152.3	7469.9	7172.9	7146.5	7628.2	7723.4
45°	9129.5	9170.8	9542.4	9860.1	9755.7	9012.5	8189.0	7747.5	7742.9	8190.2	8162.6
47.5°	10009.2	10041.3	10375.1	10682.4	10720.3	10002.3	9092.8	8634.0	8559.5	8960.9	8842.8
50°	10925.6	10961.1	11188.2	11518.5	11799.5	11327.0	10255.8	9720.2	9620.4	9978.2	9806.2
52.5°	11532.3	11579.3	11776.6	12195.2	13013.0	12779.0	11630.9	11036.8	10885.4	11211.2	11079.3
55°	11261.6	11367.1	11668.8	12339.7	13983.3	14997.2	13327.2	12572.6	12401.7	12672.3	12594.4
57.5°	10031.0	10175.5	10587.2	11622.9	14119.8	16951.5	15891.8	14381.3	14260.8	14182.8	14218.4
60°	7781.9	7920.6	8431.0	9781.0	13169.0	18378.3	19751.1	16610.9	16436.5	15699.1	15731.2
62.5°	5507.5	5437.6	5787.4	6774.9	10700.8	18545.7	24142.7	19592.9	19019.4	17300.2	17159.1
65°	4200.0	4184.0	4341.1	4655.4	6481.3	16542.1	26758.8	24604.9	23709.2	19183.4	18850.8
67.5°	3451.1	3422.4	3577.3	4034.9	4173.7	10672.1	26816.2	30419.8	29540.1	21527.7	20807.5
70°	2837.5	2805.4	2949.9	3540.5	3857.1	5412.3	22569.1	33825.0	33778.0	24496.0	22284.7
71°	2543.9	2520.9	2694.1	3350.2	3789.4	4510.8	19486.2	33834.2	33975.3	25500.7	22197.5
72.5°	2071.3	2079.4	2262.9	2982.0	3739.0	3983.3	14321.6	32257.2	32555.4	26458.4	21405.0
75°	1376.3	1383.2	1624.0	2293.8	3625.4	3897.2	7871.3	27067.4	27615.6	25884.9	19532.1
77.5°	924.4	922.1	1086.1	1573.6	3158.6	3897.2	4615.2	20244.3	20846.5	20596.4	15057.9
80°	636.5	632.0	747.8	1086.1	2391.3	3944.3	3568.1	14187.4	14369.8	11122.9	6120.0
82.5°	390.0	393.4	488.6	767.3	1627.5	3549.7	3368.5	7736.0	7537.6	3119.6	1528.8
85°	223.6	222.5	312.0	519.6	1044.8	2995.8	3284.8	3329.5	3054.3	939.3	552.8
87.5°	80.3	86.0	167.5	287.9	598.7	2086.3	2787.0	1731.9	1561.0	424.4	250.0
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°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	7600.7	7607.5	7599.5	7553.6	7514.6	7451.6	7416.0	7366.7	7351.8	7344.9	7363.2
5°	7629.3	7631.6	7564.0	7443.5	7308.2	7148.8	7034.1	6893.0	6826.5	6797.8	6816.2
7.5°	7655.7	7645.4	7497.4	7266.9	7016.9	6739.3	6492.7	6266.8	6134.9	6081.0	6085.6
10°	7659.1	7615.6	7378.2	7021.5	6633.8	6226.6	5848.2	5499.5	5279.3	5135.9	5179.5
12.5°	7623.6	7550.2	7202.7	6703.8	6165.9	5610.7	5099.2	4576.2	4262.0	4116.3	4120.9
15°	7596.1	7463.0	6987.1	6329.9	5607.3	4872.1	4173.7	3558.9	3224.0	3074.9	3004.9
17.5°	7573.1	7369.0	6737.0	5908.9	4947.8	4015.4	3175.8	2627.6	2444.1	2400.5	2382.2
20°	7541.0	7269.2	6458.3	5421.5	4196.6	3056.5	2319.1	2048.4	2049.6	2100.0	2106.9
22.5°	7496.3	7155.6	6161.3	4874.4	3390.3	2226.2	1817.9	1739.9	1819.0	1915.4	1932.6
25°	7429.8	7021.5	5831.0	4270.0	2585.2	1711.2	1552.9	1549.5	1645.8	1746.8	1761.7
27.5°	7335.7	6846.0	5463.9	3620.8	1905.0	1454.3	1391.2	1415.3	1486.4	1559.8	1565.5
30°	7209.6	6641.8	5059.1	2936.1	1493.3	1294.9	1288.0	1309.8	1353.4	1405.0	1409.6
32.5°	7070.8	6434.2	4626.7	2273.2	1278.8	1208.9	1215.7	1226.1	1246.7	1267.3	1271.9
35°	6944.6	6222.1	4184.0	1727.3	1176.7	1152.7	1148.1	1145.8	1148.1	1141.2	1142.3
37.5°	6863.2	6046.6	3722.9	1375.2	1118.2	1103.3	1089.6	1072.4	1052.9	1041.4	1043.7
40°	6833.4	5915.8	3256.1	1188.2	1070.1	1059.8	1033.4	996.7	973.7	966.9	966.9
42.5°	6913.6	5848.2	2805.4	1094.2	1029.9	1012.7	969.1	926.7	909.5	908.4	907.2
45°	7159.1	5875.7	2376.4	1042.6	993.2	960.0	902.6	867.1	855.6	857.9	856.8
47.5°	7599.5	6048.9	2009.4	1008.1	956.5	913.0	848.7	820.0	806.3	806.3	807.4
50°	8348.4	6453.7	1716.9	979.5	925.6	869.4	809.7	774.2	755.8	754.7	754.7
52.5°	9439.2	7178.6	1534.6	955.4	891.2	830.4	770.7	726.0	704.2	699.6	697.3
55°	10806.3	8217.7	1484.1	939.3	845.3	787.9	723.7	679.0	654.9	644.6	643.4
57.5°	12335.1	9481.6	1583.9	919.8	798.3	737.5	672.1	629.7	604.4	591.8	590.7
60°	13882.3	10861.4	1991.1	892.3	759.3	682.4	619.3	580.3	555.1	541.3	539.1
62.5°	15431.8	12315.7	2822.6	890.0	731.7	629.7	565.4	532.2	508.1	493.2	489.7
65°	17179.7	13907.6	3767.6	950.8	722.6	581.5	510.4	484.0	463.4	449.6	448.4
67.5°	19186.9	15704.8	3677.0	1075.8	753.5	537.9	458.8	438.1	423.2	411.7	410.6
70°	20128.5	15423.8	2285.8	1164.1	797.1	495.5	409.5	394.5	383.1	375.0	371.6
71°	19733.9	14645.1	1916.5	1153.8	792.5	477.1	390.0	378.5	367.0	360.1	356.7
72.5°	18658.1	13355.9	1598.8	1073.5	740.9	443.9	364.7	353.3	342.9	334.9	332.6
75°	16742.8	11928.0	1280.0	857.9	590.7	375.0	320.0	307.4	299.3	294.8	290.2
77.5°	12307.6	8512.5	989.8	677.8	434.7	306.2	273.0	263.8	255.8	248.9	245.4
80°	4715.0	3297.4	666.4	505.8	318.8	242.0	220.2	215.6	207.6	203.0	203.0
82.5°	1269.6	985.2	355.5	306.2	213.3	176.6	168.6	166.3	159.4	150.2	151.4
85°	513.8	434.7	199.6	168.6	130.7	104.4	113.5	114.7	106.7	95.2	96.3
87.5°	225.9	184.7	111.3	74.5	57.3	40.1	51.6	51.6	47.0	39.0	35.6
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)