

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: P319820

Luminaire Tested: **GAN-SA6D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34117 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

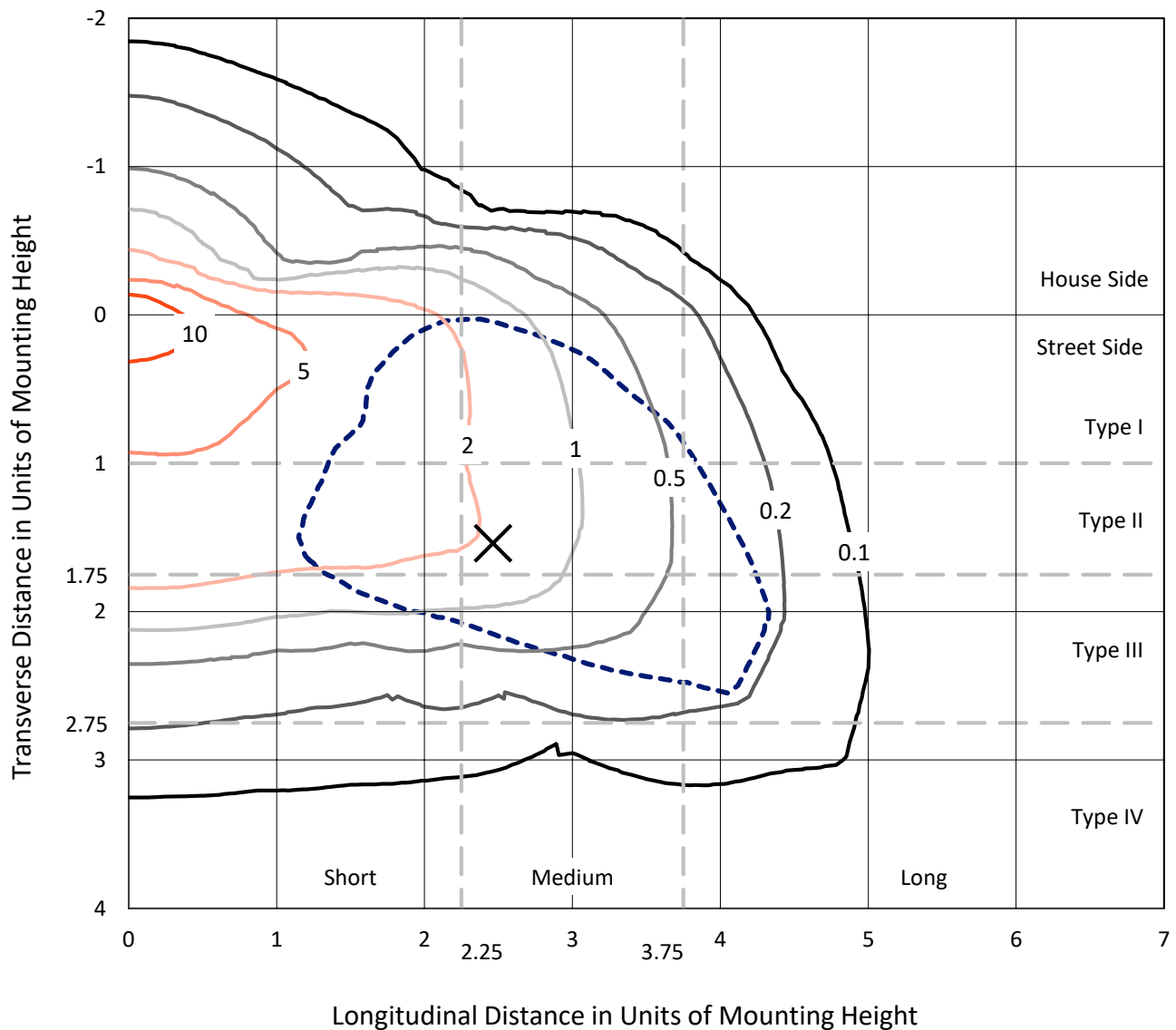
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

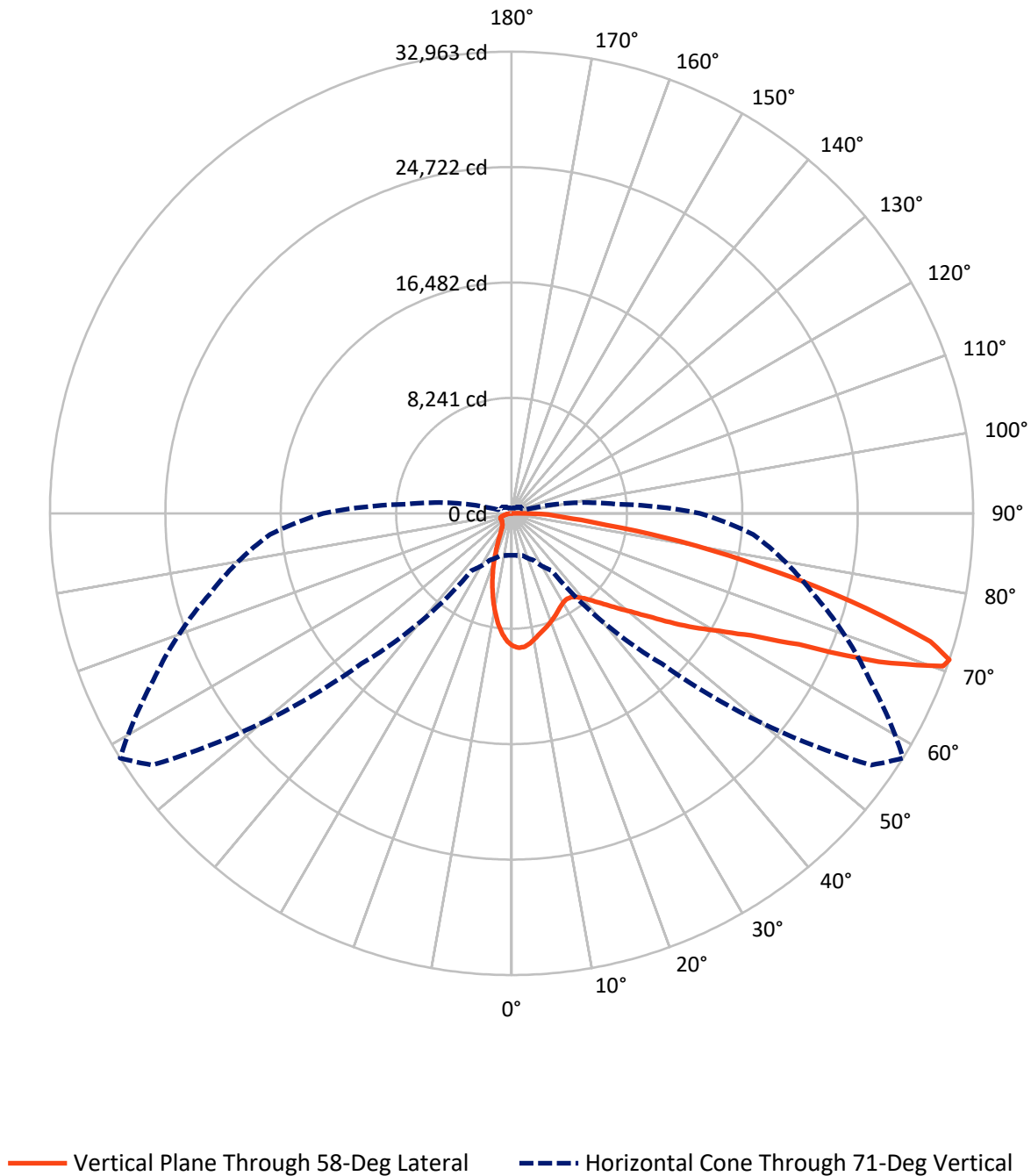
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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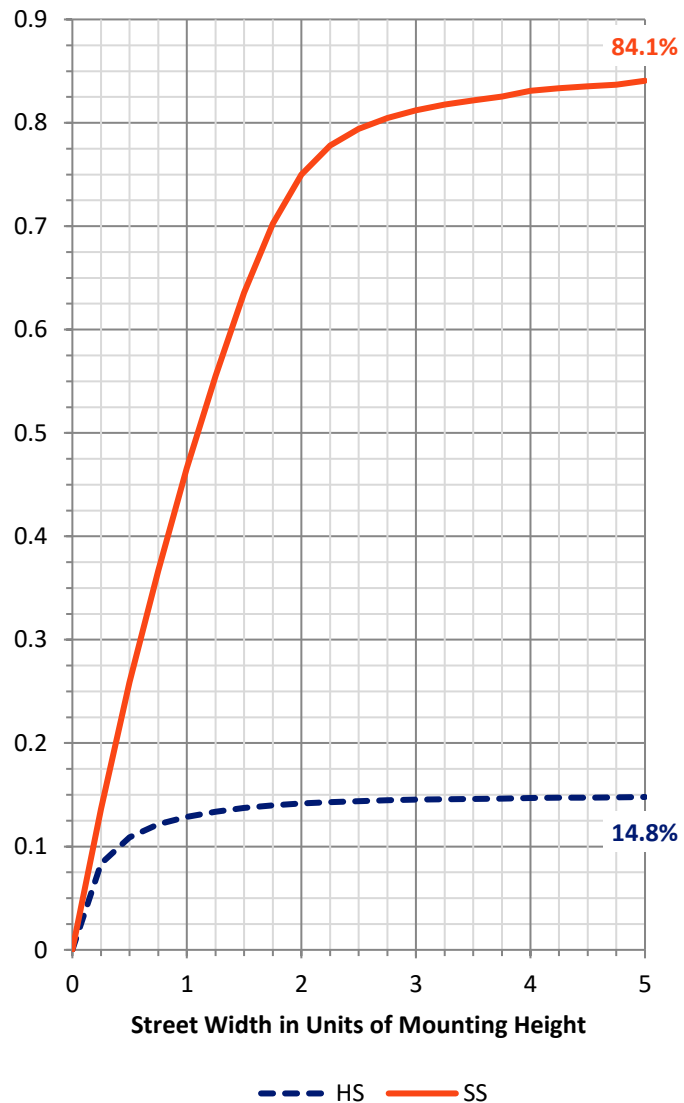
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5100.7	0.0	5100.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29016.3	0.0	29016.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	34117.0	0.0	34117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.5	2.4
10°-20°	1813.3	5.3
20°-30°	2304.6	6.8
30°-40°	2935.5	8.6
40°-50°	4162.7	12.2
50°-60°	6442.0	18.9
60°-70°	8769.9	25.7
70°-80°	5850.6	17.1
80°-90°	1022.9	3.0
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°	34117.0	100.0
0°-180°	34117.0	100.0

Coefficient of Utilization



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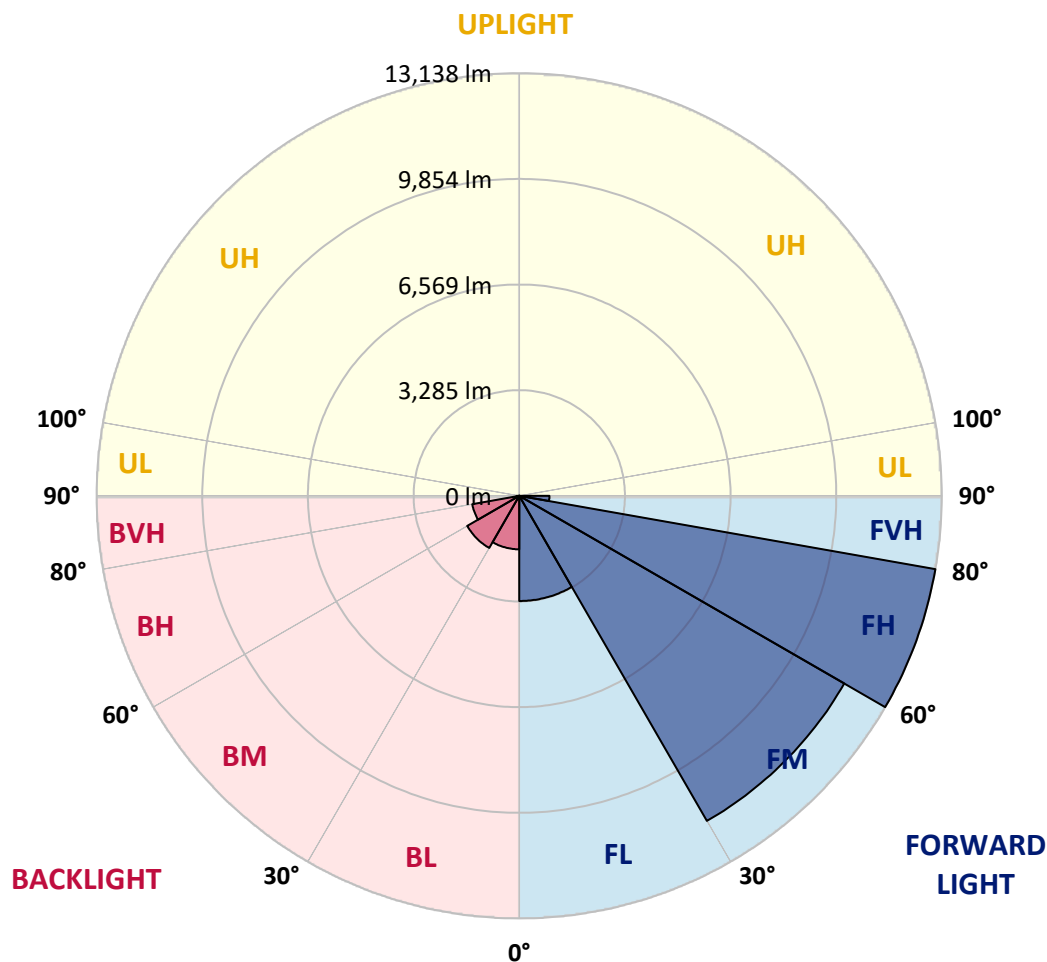
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3270.7	9.6			
FM	(30°-60°)	11669.7	34.2			
FH	(60°-80°)	13138.0	38.5			G5
FVH	(80°-90°)	937.9	2.7			G5
BL	(0°-30°)	1662.7	4.9	B3/2500		
BM	(30°-60°)	1870.6	5.5	B2/2500		
BH	(60°-80°)	1482.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	85.0	0.2			G1/100
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°	58°	65°	75°	85°
0°	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7
2.5°	9703.4	9690.4	9695.1	9685.6	9663.0	9640.5	9607.2	9613.1	9566.8	9497.8	9412.3
5°	9520.4	9515.7	9551.3	9571.5	9588.2	9575.1	9565.6	9577.5	9509.7	9414.7	9266.1
7.5°	9136.6	9084.3	9129.4	9197.2	9261.4	9310.1	9374.3	9382.6	9339.8	9240.0	9045.1
10°	8591.1	8541.2	8607.7	8713.5	8841.8	8958.3	9087.8	9111.6	9119.9	9029.6	8793.1
12.5°	8025.4	7987.4	8053.9	8202.5	8415.2	8594.7	8801.4	8837.1	8910.8	8850.2	8560.2
15°	7519.1	7504.9	7585.7	7731.9	7976.7	8251.2	8549.5	8614.9	8739.6	8719.4	8378.4
17.5°	7081.8	7078.2	7140.0	7293.3	7564.3	7911.3	8298.7	8409.3	8594.7	8618.4	8228.6
20°	6756.2	6749.0	6791.8	6904.7	7184.0	7577.4	8027.8	8179.9	8447.3	8530.5	8074.1
22.5°	6581.5	6580.3	6581.5	6634.9	6863.1	7229.2	7763.9	7949.3	8303.5	8460.4	7903.0
25°	6551.8	6548.2	6522.0	6516.1	6645.6	6938.0	7502.5	7706.9	8166.8	8411.6	7740.2
27.5°	6629.0	6633.8	6599.3	6543.4	6569.6	6746.7	7275.5	7494.2	8057.5	8402.1	7627.3
30°	6789.4	6787.1	6757.4	6699.1	6648.0	6675.4	7113.9	7332.5	7983.8	8443.7	7550.0
32.5°	6966.5	6979.6	6973.6	6941.6	6865.5	6756.2	7065.2	7279.1	7962.4	8543.5	7516.8
35°	7179.2	7193.5	7236.3	7261.2	7172.1	6996.2	7169.7	7355.1	8024.2	8731.3	7570.2
37.5°	7381.3	7418.1	7538.1	7643.9	7567.9	7371.8	7447.8	7579.7	8215.5	9027.2	7714.0
40°	7614.2	7646.3	7842.4	8067.0	8055.1	7851.9	7895.9	7983.8	8553.1	9451.5	7974.3
42.5°	7843.6	7907.7	8191.8	8510.3	8601.8	8422.3	8492.4	8538.8	9028.4	10013.6	8428.3
45°	8149.0	8217.9	8612.5	8996.3	9210.3	9109.2	9220.9	9238.8	9626.2	10779.0	9087.8
47.5°	8611.3	8689.7	9149.6	9552.5	9879.3	9890.0	10074.2	10067.1	10372.5	11654.8	9918.6
50°	9331.5	9444.4	9821.1	10197.8	10594.8	10815.8	11061.8	11027.3	11267.4	12587.7	10875.2
52.5°	10275.1	10327.4	10606.6	10884.7	11377.9	11873.5	12226.5	12195.6	12282.3	13546.8	11961.4
55°	11253.1	11292.4	11407.6	11559.8	12222.9	13031.0	13777.3	13728.6	13508.8	14542.7	13034.6
57.5°	12132.6	12212.2	12291.8	12354.8	13073.8	14240.8	15363.9	15367.5	14839.8	15617.0	14143.4
60°	12269.2	12339.4	12865.8	13362.6	14529.6	15854.7	17062.1	17026.5	16217.2	16782.9	15379.3
62.5°	10845.5	11003.6	11883.0	13204.5	15932.0	18806.7	19228.6	19184.7	17864.3	18219.7	16818.5
65°	7772.3	7951.7	9013.0	10998.8	15252.2	22059.4	23138.5	22546.7	20110.4	19986.8	18503.7
67.5°	4483.9	4526.7	4986.6	6581.5	11613.2	22229.4	29103.2	28274.9	23598.4	21991.7	19328.5
70°	3315.7	3314.5	3423.8	4050.1	6284.4	18142.4	31940.0	32682.7	27270.7	22651.3	18162.6
71°	2998.4	3001.9	3124.4	3686.5	4977.1	15185.6	31337.4	32963.2	28238.0	22325.7	17318.8
72.5°	2564.6	2576.5	2746.4	3306.2	4186.8	10472.4	28741.9	31280.4	28696.8	21522.3	15998.5
75°	1945.4	1972.8	2208.1	2786.8	3826.7	5311.0	21094.4	24978.2	25492.8	18990.9	11887.8
77.5°	1388.1	1419.0	1685.2	2343.6	3637.8	4002.6	14126.7	18219.7	18760.4	12170.6	5362.1
80°	877.1	913.9	1114.7	1864.6	3417.9	3800.6	8877.5	12246.7	10229.9	3894.5	1364.3
82.5°	514.6	543.1	691.7	1218.1	2791.6	3660.3	5223.1	6788.3	3981.2	1176.5	620.4
85°	298.3	311.4	431.4	776.0	2027.4	3454.7	3837.4	3794.6	1728.0	575.2	293.5
87.5°	139.0	154.5	255.5	405.3	1125.4	2504.0	3032.8	2620.5	1074.3	269.8	137.9
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°	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7	9452.7
2.5°	9370.7	9350.5	9266.1	9191.2	9112.8	9010.6	8897.7	8883.4	8814.5	8827.6	8803.8
5°	9185.3	9134.2	8931.0	8746.8	8529.3	8334.4	8122.8	8025.4	7885.2	7875.7	7840.0
7.5°	8920.3	8825.2	8510.3	8160.9	7811.5	7478.7	7149.5	6933.2	6712.2	6618.3	6610.0
10°	8622.0	8460.4	7996.9	7479.9	6976.0	6490.0	6019.3	5671.1	5357.4	5208.8	5202.9
12.5°	8339.1	8100.3	7464.5	6760.9	6071.6	5441.8	4796.5	4338.9	3945.6	3813.6	3757.8
15°	8099.1	7762.8	6946.3	6046.7	5210.0	4335.4	3600.9	3119.6	2755.9	2630.0	2606.2
17.5°	7866.1	7433.6	6415.1	5325.3	4314.0	3352.5	2616.9	2259.2	2065.5	2014.4	2013.2
20°	7634.4	7094.9	5860.1	4587.3	3447.6	2507.6	2012.0	1851.6	1786.2	1780.3	1770.7
22.5°	7371.8	6736.0	5276.6	3846.9	2690.6	1971.6	1710.1	1646.0	1637.6	1659.0	1659.0
25°	7125.8	6379.4	4684.8	3122.0	2092.8	1644.8	1527.1	1514.0	1536.6	1574.7	1578.2
27.5°	6896.4	6036.0	4107.2	2477.9	1676.9	1448.7	1400.0	1415.4	1455.8	1499.8	1501.0
30°	6707.4	5711.5	3546.2	1952.6	1416.6	1302.5	1294.2	1325.1	1369.1	1403.5	1411.8
32.5°	6561.3	5434.6	3004.3	1569.9	1246.7	1193.2	1200.3	1226.4	1253.8	1272.8	1285.9
35°	6493.5	5197.0	2504.0	1323.9	1138.5	1108.8	1118.3	1132.6	1144.4	1158.7	1169.4
37.5°	6505.4	5012.8	2057.2	1170.6	1066.0	1050.6	1050.6	1050.6	1050.6	1057.7	1058.9
40°	6615.9	4907.0	1693.5	1073.1	1017.3	1000.6	987.6	975.7	966.2	970.9	968.6
42.5°	6898.8	4897.5	1427.3	1011.3	978.1	950.7	924.6	908.0	896.1	900.8	903.2
45°	7378.9	5016.3	1247.8	967.4	941.2	899.6	866.4	848.5	840.2	855.7	858.0
47.5°	8000.4	5275.4	1138.5	935.3	906.8	852.1	816.4	799.8	802.2	824.8	830.7
50°	8801.4	5696.1	1086.2	915.1	883.0	811.7	774.8	760.6	767.7	799.8	806.9
52.5°	9680.9	6302.2	1092.2	909.1	867.5	782.0	742.8	726.1	738.0	767.7	773.7
55°	10695.8	7030.7	1190.8	917.5	845.0	763.0	716.6	688.1	697.6	724.9	729.7
57.5°	11823.6	7865.0	1389.3	915.1	816.4	745.1	689.3	646.5	653.6	670.3	675.0
60°	12997.7	8872.7	1697.1	922.2	803.4	723.7	652.4	599.0	596.6	610.8	613.2
62.5°	14407.2	10038.6	2048.8	927.0	811.7	696.4	603.7	551.4	544.3	547.9	550.2
65°	15859.5	10882.4	1916.9	908.0	837.8	673.8	560.9	505.1	492.0	489.6	490.8
67.5°	15904.6	9978.0	1344.1	869.9	848.5	661.9	528.8	465.9	444.5	436.2	435.0
70°	14263.4	8106.2	1047.0	829.5	805.7	642.9	499.1	433.8	401.7	388.6	387.4
71°	13462.4	7462.1	992.3	809.3	773.7	623.9	486.1	419.5	386.2	372.0	369.6
72.5°	12206.3	6689.6	925.8	777.2	711.9	575.2	461.1	399.3	364.8	348.2	344.6
75°	8759.8	4374.6	795.1	692.8	589.5	458.7	404.1	358.9	329.2	309.0	306.6
77.5°	3375.1	1741.0	601.3	576.4	451.6	358.9	332.8	310.2	288.8	268.6	267.4
80°	1043.4	778.4	438.5	433.8	326.8	267.4	259.1	253.1	244.8	223.4	218.7
82.5°	557.4	446.8	301.9	280.5	213.9	178.3	187.8	190.1	191.3	168.8	166.4
85°	266.2	236.5	169.9	159.2	124.8	99.8	115.3	124.8	126.0	103.4	96.3
87.5°	127.2	123.6	79.6	60.6	46.3	33.3	40.4	49.9	54.7	39.2	34.5
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)