

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: P323682

Luminaire Tested: **GAN-SA8B-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31093 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

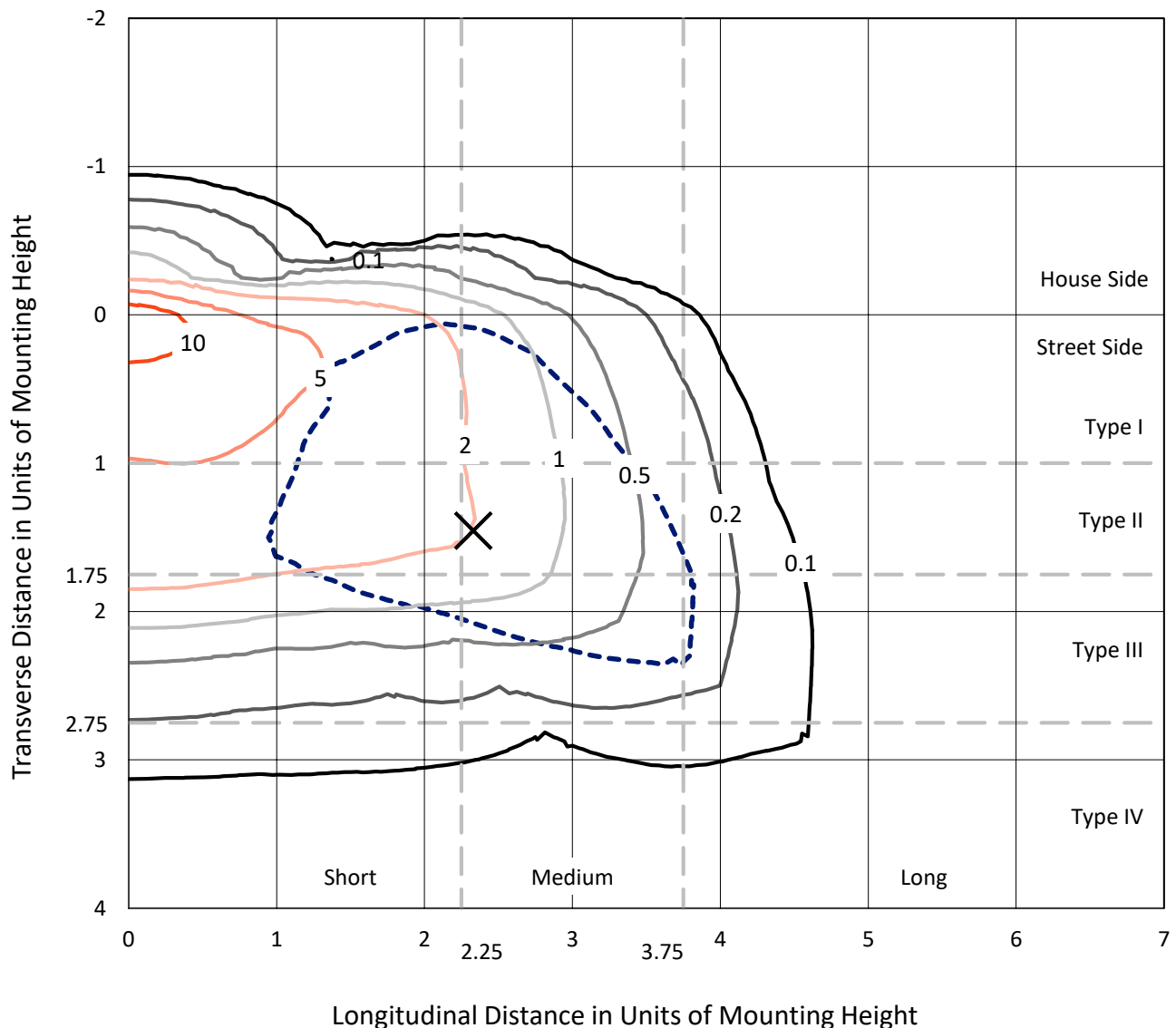
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

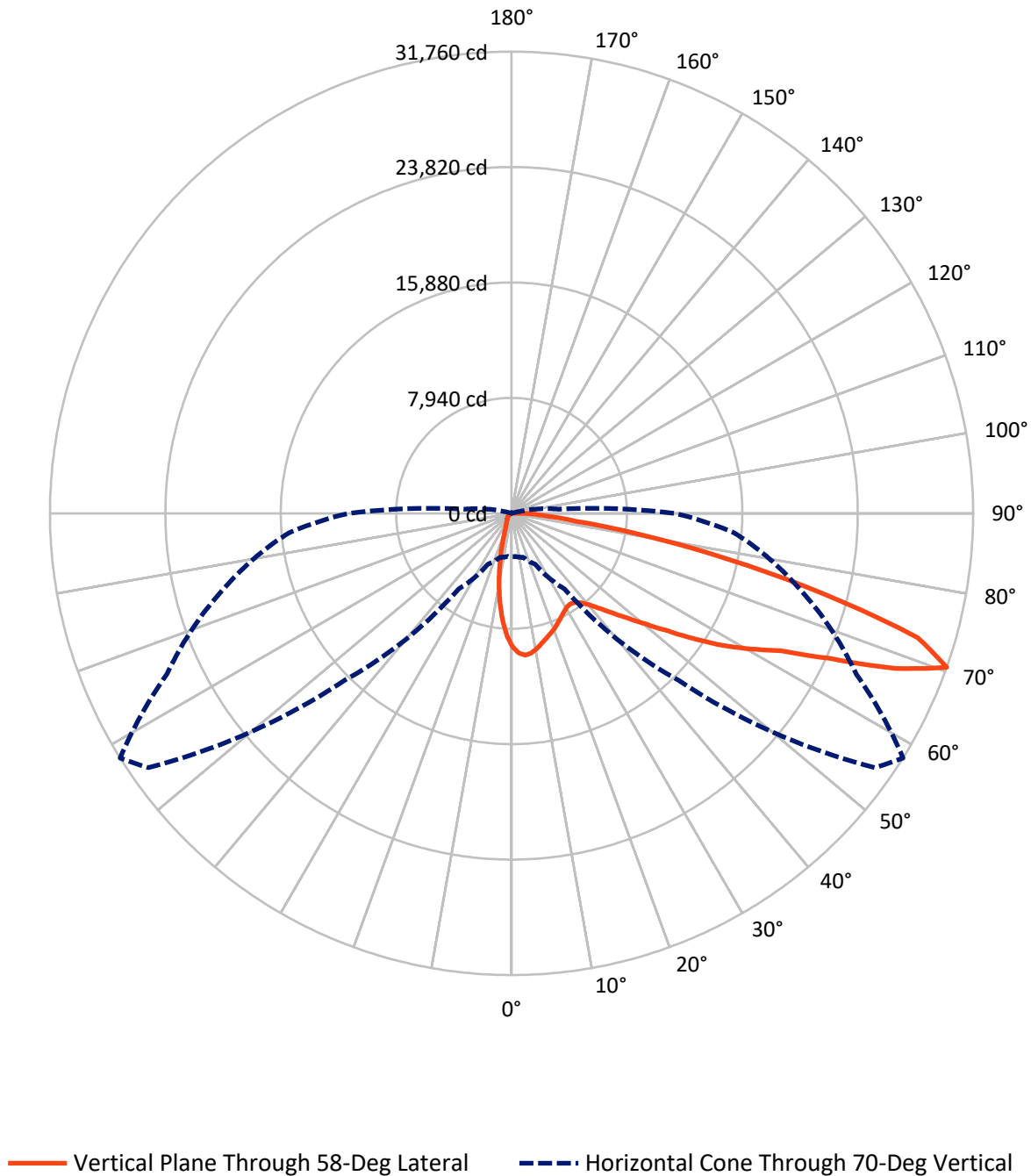
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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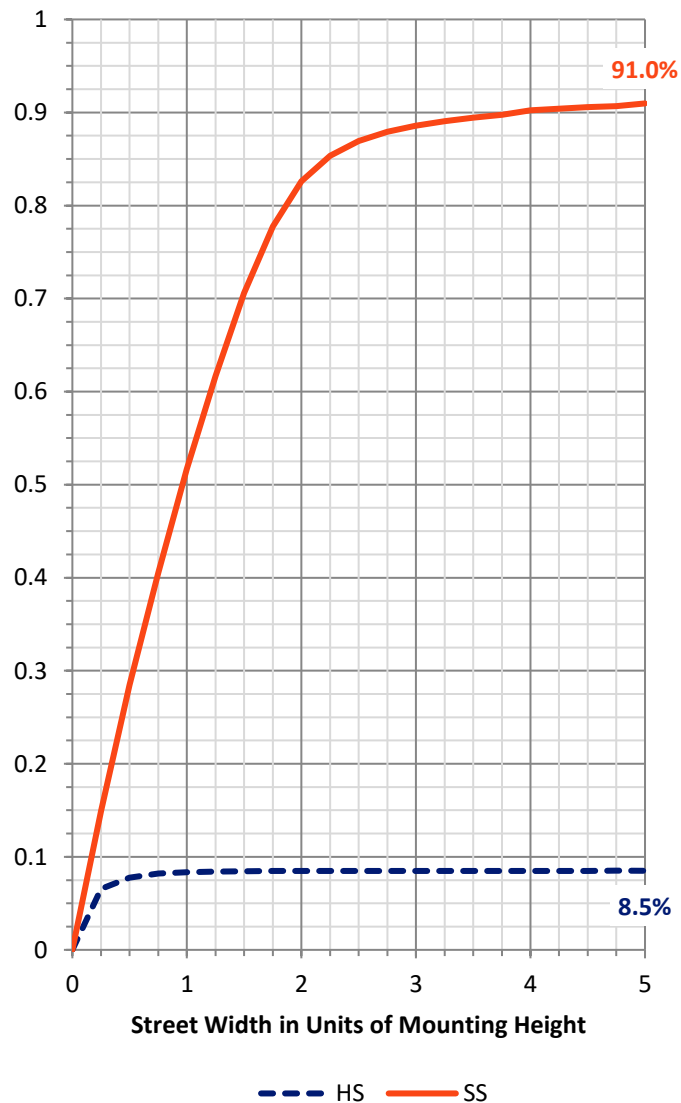
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2660.9	0.0	2660.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	28432.1	0.0	28432.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	31093.0	0.0	31093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.1	2.4
10°-20°	1576.3	5.1
20°-30°	2072.3	6.7
30°-40°	2744.6	8.8
40°-50°	4102.3	13.2
50°-60°	6571.7	21.1
60°-70°	8283.6	26.6
70°-80°	4468.1	14.4
80°-90°	523.0	1.7
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°	31093.0	100.0
0°-180°	31093.0	100.0

Coefficient of Utilization



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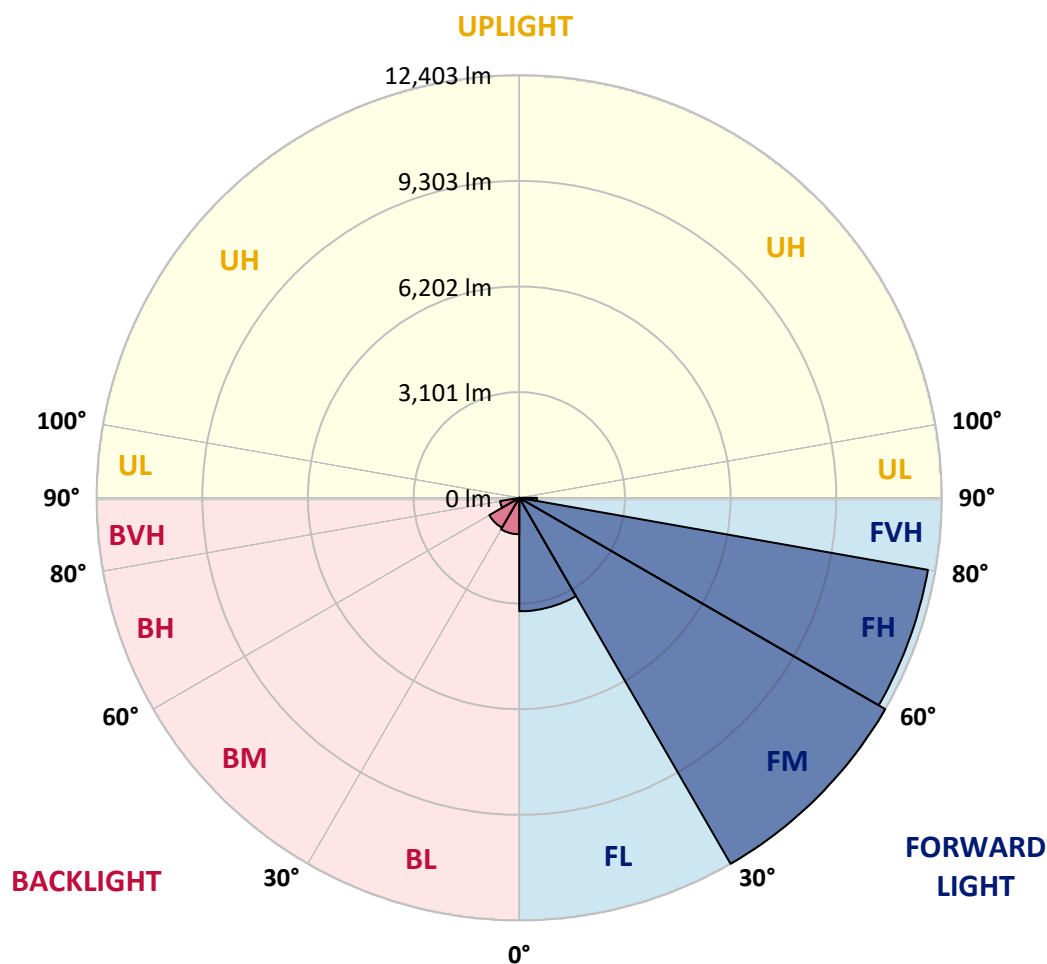
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3330.7	10.7			
FM	(30°-60°)	12403.5	39.9			
FH	(60°-80°)	12179.5	39.2			G5
FVH	(80°-90°)	518.5	1.7			G4/750
BL	(0°-30°)	1069.0	3.4	B3/2500		
BM	(30°-60°)	1015.1	3.3	B2/2500		
BH	(60°-80°)	572.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.5	0.0			G0/10
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°	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7
2.5°	9946.2	9921.7	9912.6	9897.1	9837.6	9779.5	9664.4	9632.1	9559.7	9387.7	9205.4
5°	9954.0	9952.7	9979.9	9973.4	9952.7	9925.6	9842.8	9800.1	9677.3	9431.7	9098.1
7.5°	9474.3	9498.9	9559.7	9608.8	9665.7	9739.4	9749.7	9708.3	9607.5	9342.5	8900.3
10°	8830.5	8869.3	8954.6	9051.6	9200.2	9347.6	9479.5	9474.3	9439.4	9178.3	8662.4
12.5°	8185.3	8230.6	8328.8	8472.3	8683.1	8923.6	9158.9	9191.2	9249.4	9030.9	8442.6
15°	7620.3	7659.1	7756.1	7931.9	8193.1	8516.3	8861.5	8921.0	9071.0	8915.8	8259.0
17.5°	7140.7	7165.2	7236.3	7431.6	7734.1	8125.8	8574.5	8690.8	8914.5	8825.3	8100.0
20°	6805.8	6809.7	6856.2	6993.3	7295.8	7734.1	8277.1	8443.9	8749.0	8747.7	7935.8
22.5°	6640.3	6627.4	6636.4	6715.3	6937.7	7360.5	7979.7	8177.6	8600.3	8681.8	7769.0
25°	6609.3	6598.9	6573.1	6583.4	6717.9	7033.3	7679.8	7908.6	8469.8	8641.7	7624.2
27.5°	6706.2	6716.6	6672.6	6626.1	6636.4	6821.3	7413.5	7678.5	8363.7	8641.7	7522.1
30°	6901.5	6906.6	6874.3	6813.6	6732.1	6761.8	7228.6	7493.6	8310.7	8701.2	7457.4
32.5°	7117.4	7145.8	7142.0	7092.8	6976.5	6856.2	7184.6	7426.4	8306.8	8833.1	7451.0
35°	7385.0	7417.3	7471.6	7461.3	7339.8	7142.0	7334.6	7524.6	8383.1	9050.3	7520.8
37.5°	7669.5	7718.6	7834.9	7890.5	7811.7	7588.0	7670.7	7806.5	8587.4	9401.9	7697.9
40°	7944.8	8000.4	8212.5	8431.0	8371.5	8141.4	8180.1	8288.7	8950.7	9907.5	8034.0
42.5°	8215.1	8297.8	8609.4	8968.8	9039.9	8856.3	8877.0	8963.6	9489.8	10603.0	8583.5
45°	8538.3	8631.4	9092.9	9536.4	9726.4	9646.3	9734.2	9791.1	10194.5	11522.3	9324.4
47.5°	9012.8	9120.1	9686.4	10191.9	10525.5	10577.2	10754.3	10791.8	11085.3	12592.8	10290.2
50°	9938.5	9968.2	10480.2	10939.2	11420.1	11730.4	11932.1	11960.6	12163.6	13762.9	11496.4
52.5°	11103.4	11122.8	11412.4	11720.1	12267.0	12900.5	13372.4	13412.5	13455.2	14903.2	12687.2
55°	12260.5	12257.9	12449.3	12630.3	13256.1	14176.6	15200.6	15225.1	14918.7	15985.4	13597.4
57.5°	12983.3	13053.1	13344.0	13576.7	14450.7	15631.1	17052.0	17142.5	16456.0	16786.9	14497.2
60°	12753.1	12786.7	13431.9	14293.0	15938.8	17698.4	18925.4	18948.7	17611.8	17587.2	15635.0
62.5°	10865.5	10883.6	11897.2	13672.4	16692.6	20379.9	21185.4	20806.6	18940.9	18697.8	16996.4
65°	7447.1	7564.7	8411.6	10605.6	15307.9	22062.0	24683.9	24056.9	20966.9	20298.4	18227.2
67.5°	4385.5	4360.9	4779.8	6396.0	11243.0	20944.9	29109.5	28486.4	23729.8	21370.3	17866.5
70°	2995.6	2978.8	3139.1	3872.2	6346.8	16247.8	30502.0	31760.0	26169.5	20648.8	15376.4
72.5°	2138.4	2147.5	2384.1	3008.6	3984.7	9466.6	26230.3	29207.8	25405.4	18001.0	11687.8
75°	1451.9	1476.5	1815.2	2468.1	3493.4	4816.0	18613.8	22202.9	20687.6	13082.8	6717.9
77.5°	780.9	808.1	1207.6	1988.5	3158.5	3346.0	11973.5	15280.7	12994.9	5881.4	1947.1
80°	325.8	341.3	565.0	1445.5	2729.3	2938.8	7045.0	9266.2	5537.5	1159.7	434.4
82.5°	140.9	148.7	235.3	862.4	2040.2	2481.1	3730.0	4457.9	1678.2	254.7	218.5
85°	27.2	28.4	97.0	456.4	1301.9	1400.2	2417.7	2369.9	753.8	109.9	159.0
87.5°	0.0	0.0	23.3	143.5	382.7	762.8	1475.2	1457.1	256.0	53.0	59.5
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°	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7	9184.7
2.5°	9112.3	9023.1	8835.6	8604.2	8427.1	8231.9	8076.7	7880.2	7794.9	7798.7	7752.2
5°	8908.0	8724.5	8309.4	7785.8	7382.4	6966.1	6608.0	6251.1	6040.4	5971.9	5907.2
7.5°	8615.9	8324.9	7663.0	6856.2	6173.6	5506.4	4925.9	4415.2	4092.0	3934.3	3876.1
10°	8286.2	7877.6	6919.6	5856.8	4882.0	3979.5	3227.1	2572.9	2311.7	2134.6	2089.3
12.5°	7996.6	7443.2	6193.0	4831.5	3674.4	2585.8	1868.2	1461.0	1283.8	1214.0	1202.4
15°	7723.8	7037.2	5493.5	3903.2	2544.4	1591.6	1188.2	1049.8	1008.5	996.8	996.8
17.5°	7466.5	6650.7	4809.6	2989.2	1683.3	1115.8	983.9	952.9	939.9	938.6	939.9
20°	7197.5	6264.1	4137.3	2190.2	1175.2	945.1	908.9	892.1	888.2	888.2	888.2
22.5°	6940.3	5877.5	3483.1	1564.4	942.5	862.4	844.3	832.6	828.7	827.5	824.9
25°	6693.3	5510.3	2844.4	1105.4	827.5	790.0	774.4	758.9	747.3	740.8	737.0
27.5°	6490.3	5183.2	2249.6	886.9	747.3	715.0	695.6	672.3	643.9	630.9	625.8
30°	6328.7	4884.6	1733.8	748.6	672.3	640.0	610.2	570.2	528.8	506.8	505.5
32.5°	6202.0	4591.1	1316.2	662.0	605.1	565.0	522.3	471.9	424.1	399.5	398.2
35°	6140.0	4332.5	1005.9	598.6	545.6	495.2	442.2	386.6	340.0	316.8	314.2
37.5°	6181.3	4114.0	784.8	545.6	495.2	437.0	374.9	316.8	275.4	254.7	253.4
40°	6332.6	3974.4	637.4	500.4	452.5	381.4	314.2	259.9	225.0	208.2	206.9
42.5°	6654.5	3922.6	544.3	462.9	411.1	329.7	261.2	214.6	182.3	170.7	168.1
45°	7192.4	3998.9	481.0	426.7	368.5	280.6	215.9	175.8	147.4	138.3	137.0
47.5°	7908.6	4199.3	435.7	391.7	329.7	236.6	179.7	142.2	120.2	111.2	109.9
50°	8831.8	4517.4	398.2	356.8	293.5	200.4	148.7	112.5	93.1	86.6	86.6
52.5°	9836.3	4896.2	364.6	324.5	257.3	166.8	120.2	86.6	73.7	65.9	65.9
55°	10666.4	5227.2	328.4	300.0	213.3	138.3	91.8	65.9	54.3	50.4	50.4
57.5°	11495.1	5580.1	287.0	257.3	170.7	112.5	69.8	49.1	40.1	37.5	37.5
60°	12569.5	6012.0	246.9	209.4	134.5	85.3	51.7	34.9	29.7	28.4	28.4
62.5°	13751.2	6265.4	210.7	168.1	104.7	63.4	37.5	23.3	22.0	22.0	20.7
65°	14474.0	5907.2	177.1	134.5	81.5	47.8	24.6	16.8	19.4	18.1	15.5
67.5°	13552.1	4624.7	144.8	104.7	63.4	36.2	15.5	11.6	20.7	16.8	12.9
70°	11221.0	3237.4	112.5	73.7	50.4	31.0	10.3	7.8	22.0	16.8	10.3
72.5°	8397.4	2166.9	89.2	49.1	37.5	27.2	9.1	3.9	19.4	14.2	9.1
75°	4588.5	872.7	71.1	31.0	23.3	19.4	6.5	2.6	12.9	10.3	6.5
77.5°	1207.6	230.1	51.7	20.7	12.9	7.8	3.9	1.3	6.5	5.2	2.6
80°	307.7	89.2	33.6	14.2	9.1	3.9	0.0	0.0	1.3	0.0	0.0
82.5°	164.2	37.5	20.7	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	124.1	24.6	11.6	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	47.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)