

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: P193607

Luminaire Tested: **GAN-AF-09-LED-U-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39454 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

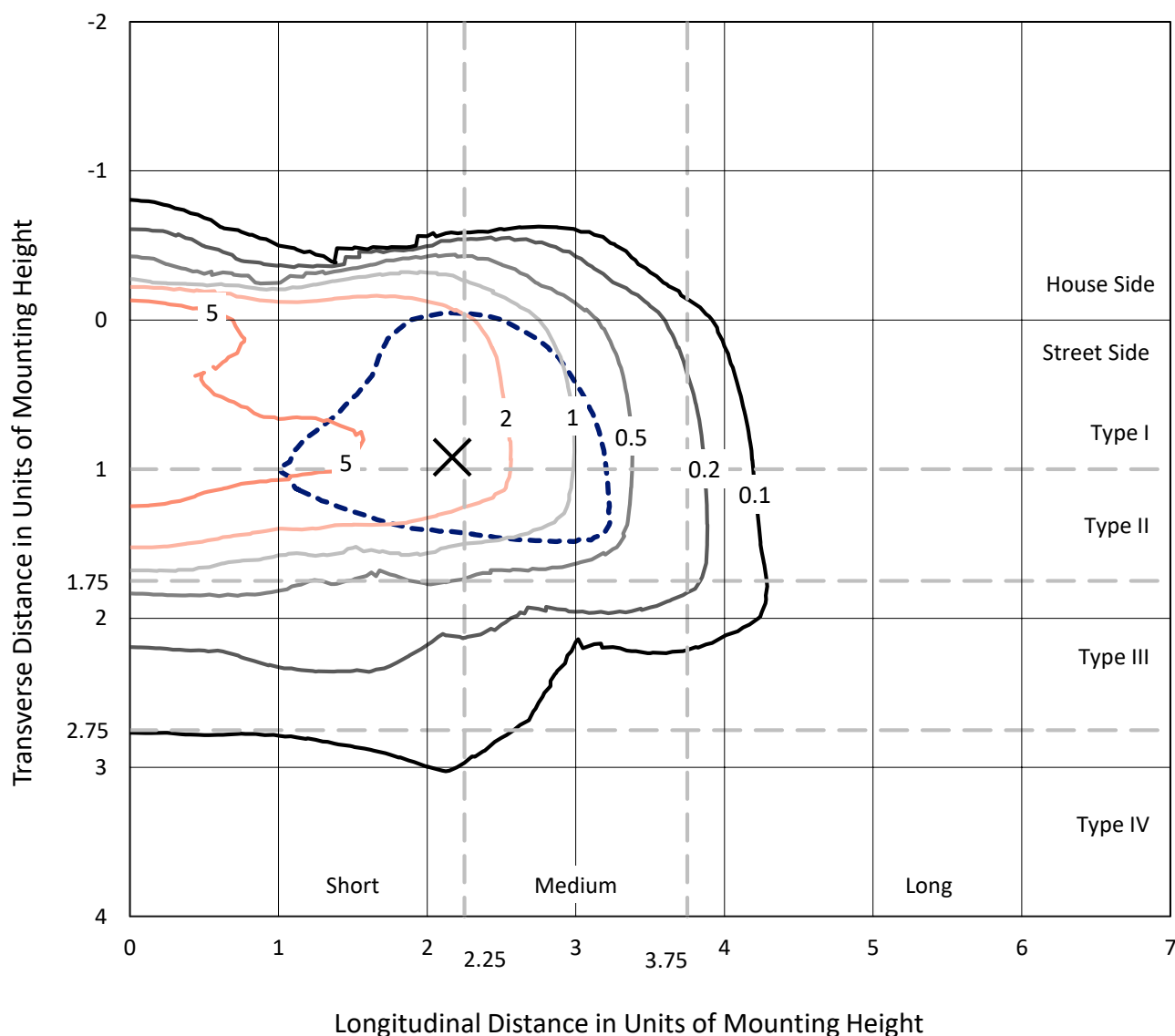


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

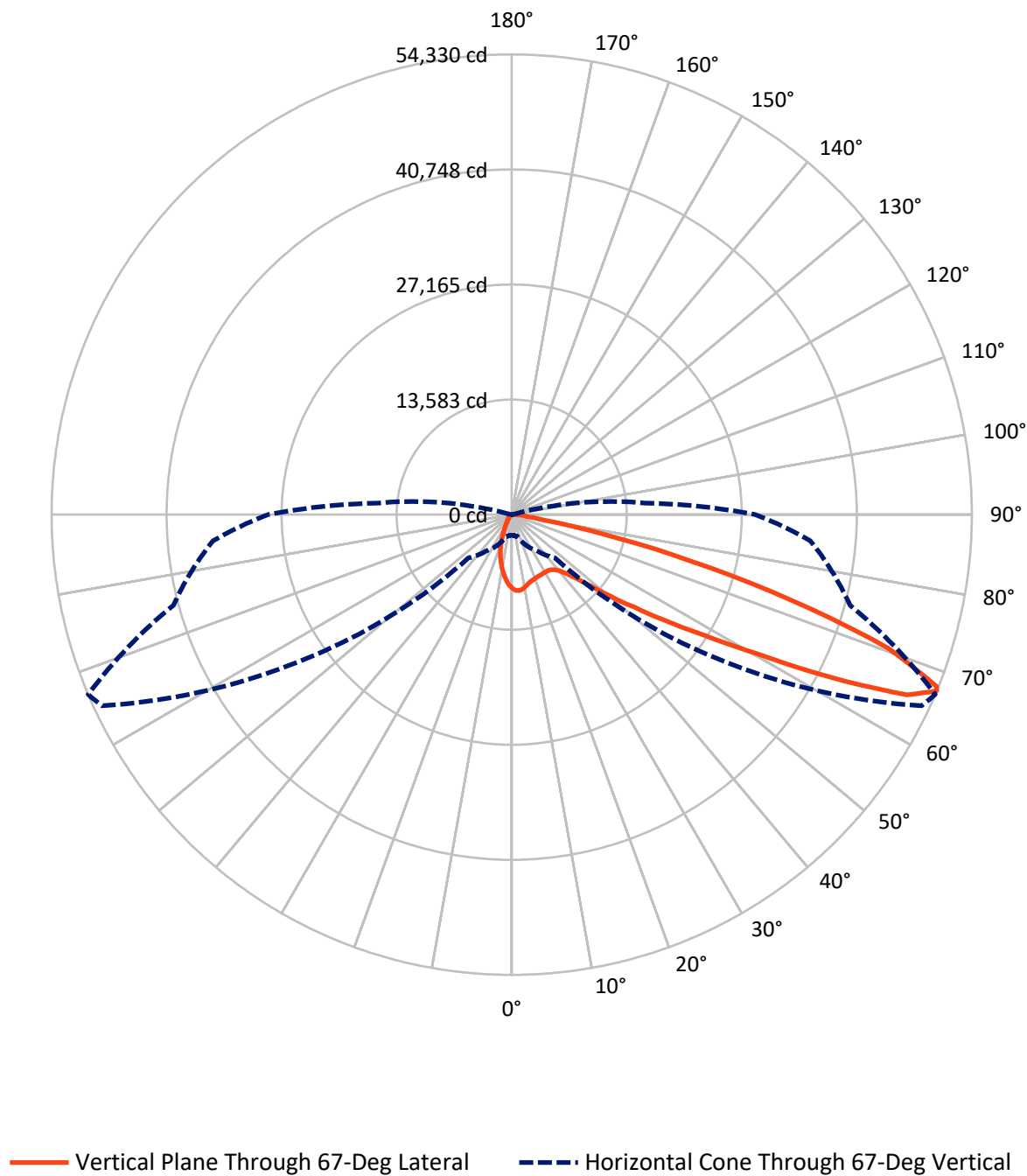


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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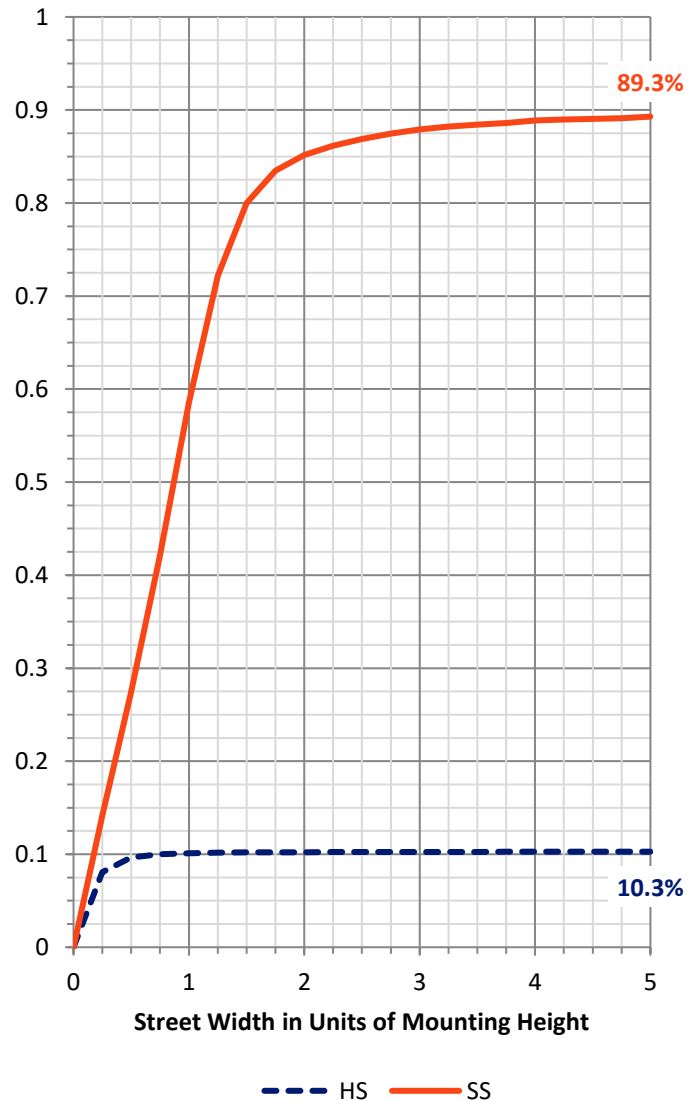
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4096.5	0.0	4096.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35357.5	0.0	35357.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	39454.0	0.0	39454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.0	1.8
10°-20°	1506.9	3.8
20°-30°	2190.9	5.6
30°-40°	3417.8	8.7
40°-50°	6054.5	15.3
50°-60°	9580.7	24.3
60°-70°	10973.3	27.8
70°-80°	4551.7	11.5
80°-90°	470.2	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°	39454.0	100.0
0°-180°	39454.0	100.0

Coefficient of Utilization



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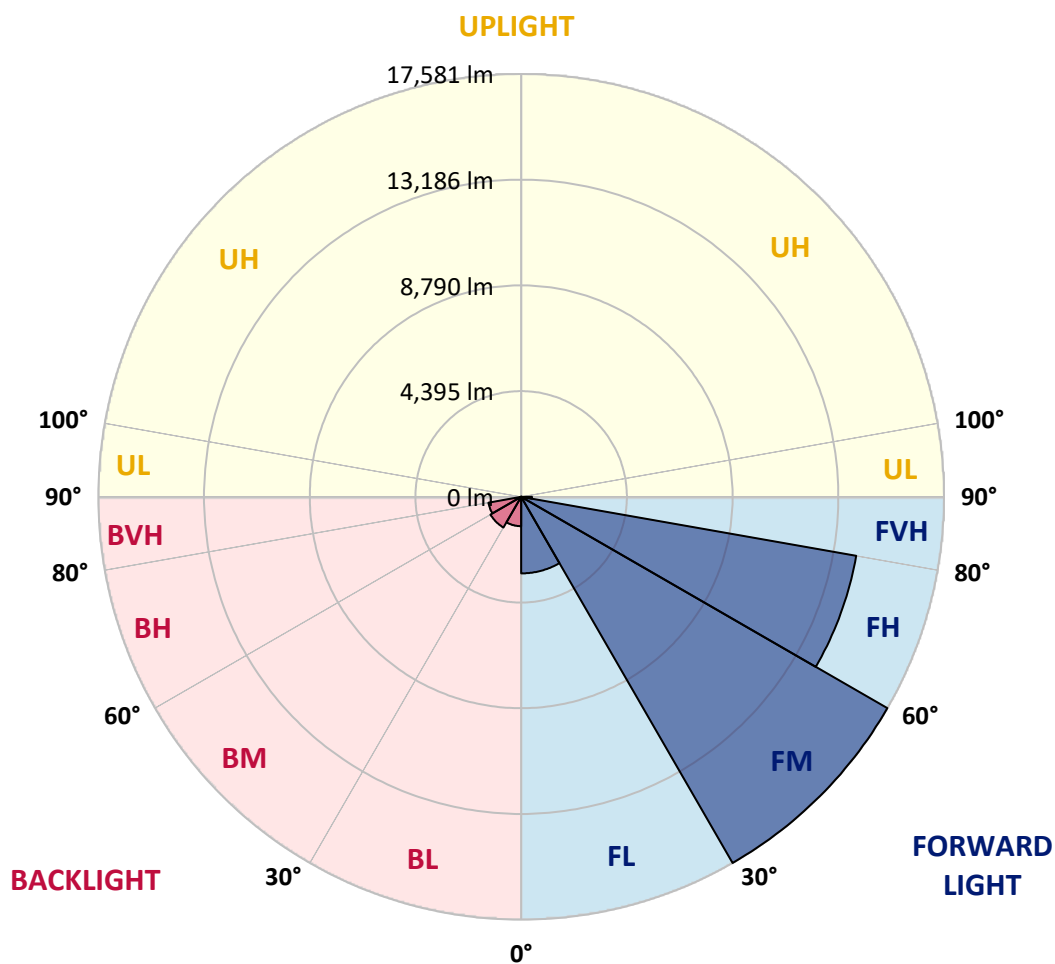
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3183.3	8.1			
FM	(30°-60°)	17580.8	44.6			
FH	(60°-80°)	14144.4	35.9			G5
FVH	(80°-90°)	449.0	1.1			G3/500
BL	(0°-30°)	1222.4	3.1	B3/2500		
BM	(30°-60°)	1472.3	3.7	B2/2500		
BH	(60°-80°)	1380.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	21.2	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1
2.5°	8995.6	9014.0	9011.7	9025.5	9057.8	9060.1	9027.8	8965.7	8951.9	8871.4	8731.0
5°	8296.0	8349.0	8381.2	8512.4	8659.6	8836.8	8970.3	9018.6	9011.7	8954.2	8742.5
7.5°	7497.5	7550.4	7587.3	7741.4	7937.0	8240.8	8588.3	8873.7	8899.0	8961.1	8733.3
10°	6965.9	6975.1	7025.7	7173.0	7377.8	7688.5	8102.7	8602.1	8678.1	8905.9	8710.3
12.5°	6528.7	6535.6	6602.3	6761.1	6979.7	7292.7	7727.6	8305.2	8422.6	8836.8	8705.7
15°	6218.0	6243.3	6303.2	6468.8	6701.3	7011.9	7458.4	8086.6	8227.0	8811.5	8747.1
17.5°	6114.4	6142.1	6160.5	6280.1	6491.9	6795.6	7253.6	7943.9	8102.7	8825.3	8827.6
20°	6222.6	6243.3	6201.9	6231.8	6363.0	6634.5	7081.0	7822.0	8010.7	8841.4	8931.2
22.5°	6625.3	6634.5	6521.8	6390.6	6367.6	6517.2	6945.2	7725.3	7927.8	8885.2	9053.2
25°	7315.7	7299.6	7115.5	6832.4	6565.5	6496.5	6864.7	7665.5	7886.4	8931.2	9179.7
27.5°	8148.8	8171.8	7918.6	7506.7	6998.1	6634.5	6853.2	7640.2	7868.0	8963.4	9290.2
30°	9161.3	9193.5	8903.6	8385.8	7656.3	6975.1	6959.0	7635.6	7856.5	8942.7	9299.4
32.5°	10194.6	10233.7	10005.9	9472.0	8535.4	7545.8	7198.3	7686.2	7879.5	8871.4	9246.5
35°	11276.2	11331.4	11179.5	10721.6	9727.4	8369.7	7619.5	7840.4	7987.7	8864.5	9193.5
37.5°	12769.7	12820.3	12535.0	12049.4	11170.3	9474.3	8296.0	8130.4	8243.1	8974.9	9207.3
40°	14999.6	14992.7	14256.3	13513.0	12755.9	10878.1	9246.5	8655.0	8712.6	9308.6	9377.6
42.5°	17429.7	17418.2	16329.7	15199.8	14516.3	12606.3	10496.0	9561.7	9522.6	9923.0	9819.5
45°	19303.0	19300.7	18412.4	17139.8	16635.8	14590.0	12111.5	10822.8	10763.0	10921.8	10634.1
47.5°	20101.5	20115.3	19668.9	18773.7	18985.4	17273.3	14148.1	12650.0	12560.3	12495.8	12058.6
50°	19480.2	19507.8	19544.6	19369.7	20709.0	20879.3	16879.7	15225.1	15181.4	14893.8	14210.3
52.5°	17450.5	17590.8	18023.5	18578.1	21307.4	24340.4	21162.4	18423.9	18189.2	17883.1	17130.6
55°	14030.8	14185.0	15006.5	16352.8	20416.8	26614.1	27164.1	22547.7	22156.5	21242.9	20156.7
57.5°	9285.6	9524.9	10717.0	12429.1	17830.2	26980.0	33152.0	28271.0	26908.6	24407.2	23182.9
60°	5115.7	5345.8	6639.1	8190.2	12877.9	25171.2	37179.2	35722.5	33315.3	27944.2	26858.0
62.5°	3150.4	3274.7	4229.7	5672.6	7723.0	19866.8	38012.2	45086.3	42299.5	32498.4	31297.1
65°	2508.4	2561.3	3028.5	4637.0	5536.8	11817.0	35322.0	52224.8	51295.1	38012.2	35271.4
67°	2434.7	2455.4	2676.4	3981.2	5219.3	7244.4	29591.9	53386.9	54330.4	41349.0	35395.7
67.5°	2450.8	2473.9	2683.3	3799.4	5210.1	6657.5	27617.4	52929.0	54121.0	41613.7	34845.7
70°	2363.4	2434.7	3072.2	3797.1	4954.6	5532.2	16539.2	45859.5	47099.9	38665.8	29566.6
72.5°	837.7	842.3	1327.8	3072.2	5387.2	5592.1	8305.2	33619.1	34537.3	29578.1	21316.6
75°	497.1	423.4	441.8	874.5	5147.9	5431.0	4791.2	21482.3	21825.1	16948.8	10795.2
77.5°	342.9	299.2	308.4	386.6	1960.7	5355.0	3806.3	11202.5	10836.6	5944.2	2299.0
80°	195.6	172.6	184.1	338.3	713.4	4996.0	3590.0	4542.7	3873.0	1008.0	635.1
82.5°	103.6	87.4	105.9	278.5	497.1	3113.6	3596.9	2195.4	1739.8	340.6	432.6
85°	36.8	29.9	50.6	191.0	331.4	955.0	3334.5	1845.6	1449.8	165.7	329.1
87.5°	6.9	6.9	20.7	78.2	133.5	292.3	1972.2	1095.4	734.1	99.0	225.5
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°	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1	8701.1
2.5°	8673.4	8574.5	8441.0	8277.6	8084.3	7914.0	7787.5	7656.3	7628.7	7582.7	7575.7
5°	8615.9	8445.6	8114.2	7734.5	7329.5	6963.6	6666.8	6402.1	6284.7	6183.5	6172.0
7.5°	8530.8	8275.3	7711.5	7099.4	6466.5	5891.2	5403.4	5058.2	4740.6	4588.7	4565.7
10°	8431.8	8065.9	7258.2	6409.0	5534.5	4722.2	3997.3	3389.8	3021.6	2802.9	2775.3
12.5°	8339.8	7861.1	6795.6	5693.3	4531.2	3445.0	2513.0	1933.1	1546.4	1390.0	1371.6
15°	8296.0	7695.4	6363.0	4961.5	3481.8	2193.1	1373.9	1063.2	936.6	899.8	897.5
17.5°	8291.4	7555.0	5939.6	4204.4	2439.3	1274.9	895.2	816.9	791.6	782.4	782.4
20°	8289.1	7421.6	5516.1	3419.7	1548.7	849.2	745.6	727.2	708.8	697.3	697.3
22.5°	8314.5	7301.9	5074.3	2618.8	975.7	688.1	655.9	637.4	614.4	598.3	596.0
25°	8339.8	7209.8	4623.2	1864.0	706.5	598.3	566.1	540.8	508.6	487.9	485.6
27.5°	8344.4	7094.8	4140.0	1247.3	591.4	522.4	481.0	441.8	405.0	384.3	382.0
30°	8275.3	6901.5	3603.8	842.3	522.4	453.3	398.1	356.7	322.2	306.1	306.1
32.5°	8139.6	6662.1	3014.7	635.1	464.9	388.9	329.1	290.0	266.9	260.0	257.7
35°	8017.6	6404.4	2409.4	538.5	416.5	329.1	269.2	243.9	230.1	227.8	225.5
37.5°	7946.3	6197.3	1841.0	487.9	370.5	276.2	227.8	209.4	202.5	197.9	200.2
40°	8001.5	6024.7	1360.0	446.4	324.5	230.1	193.3	184.1	177.2	174.9	174.9
42.5°	8243.1	5994.8	1010.3	409.6	280.8	191.0	168.0	161.1	156.5	154.2	156.5
45°	8878.3	6178.9	784.7	375.1	237.0	161.1	142.7	140.4	138.1	138.1	138.1
47.5°	9833.3	6558.6	653.6	336.0	197.9	138.1	124.3	122.0	119.7	122.0	122.0
50°	11451.1	7253.6	584.5	296.9	163.4	117.4	105.9	105.9	105.9	105.9	108.2
52.5°	13911.1	8620.5	538.5	257.7	133.5	99.0	89.7	89.7	92.1	92.1	94.4
55°	16651.9	10433.9	497.1	218.6	112.8	82.8	73.6	75.9	78.2	80.5	80.5
57.5°	19625.1	12442.9	462.6	179.5	96.7	66.7	62.1	64.4	66.7	71.3	71.3
60°	23212.8	14617.6	411.9	140.4	80.5	52.9	48.3	52.9	59.8	64.4	66.7
62.5°	27152.6	16721.0	347.5	110.5	66.7	41.4	39.1	48.3	57.5	62.1	64.4
65°	29845.0	17381.4	266.9	89.7	50.6	29.9	32.2	43.7	55.2	62.1	62.1
67°	28754.2	15759.0	218.6	75.9	41.4	23.0	29.9	43.7	55.2	59.8	62.1
67.5°	27997.1	15123.9	209.4	73.6	39.1	23.0	29.9	43.7	55.2	62.1	62.1
70°	22780.2	11361.3	174.9	55.2	32.2	20.7	25.3	41.4	52.9	59.8	59.8
72.5°	15828.1	7005.0	156.5	39.1	27.6	18.4	23.0	39.1	50.6	57.5	59.8
75°	7525.1	2536.0	133.5	29.9	25.3	16.1	20.7	39.1	50.6	57.5	57.5
77.5°	1534.9	589.1	108.2	25.3	20.7	16.1	18.4	36.8	48.3	55.2	55.2
80°	504.0	227.8	80.5	23.0	20.7	16.1	18.4	34.5	48.3	52.9	55.2
82.5°	363.6	115.1	52.9	23.0	20.7	16.1	16.1	34.5	46.0	52.9	52.9
85°	278.5	80.5	34.5	23.0	20.7	16.1	16.1	32.2	43.7	50.6	50.6
87.5°	184.1	32.2	27.6	23.0	20.7	16.1	16.1	32.2	41.4	48.3	50.6
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)