

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: P321852

Luminaire Tested: **GAN-SA8C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33725 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 445
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

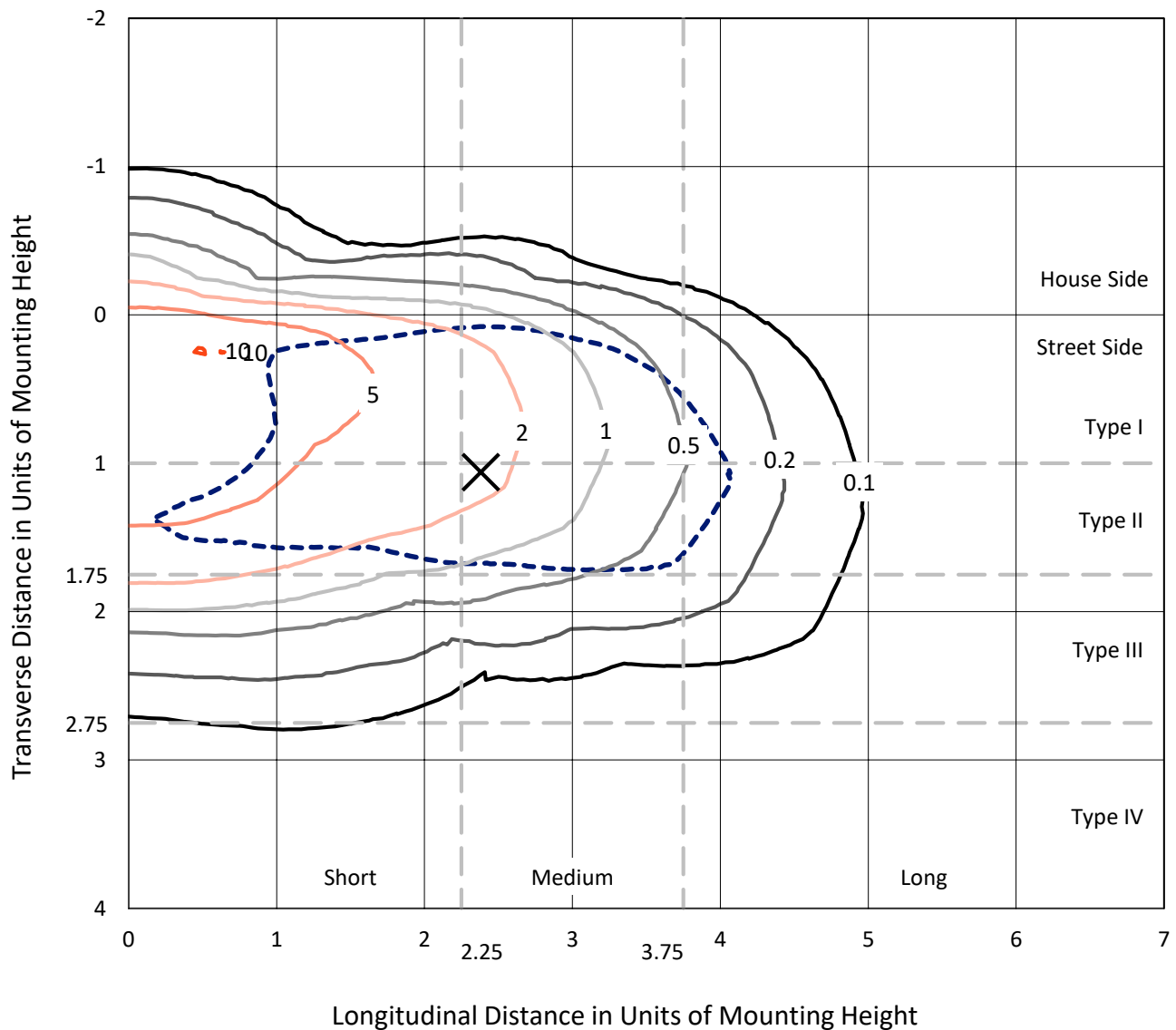


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Iso-Footcandle Lines of Horizontal Illumination

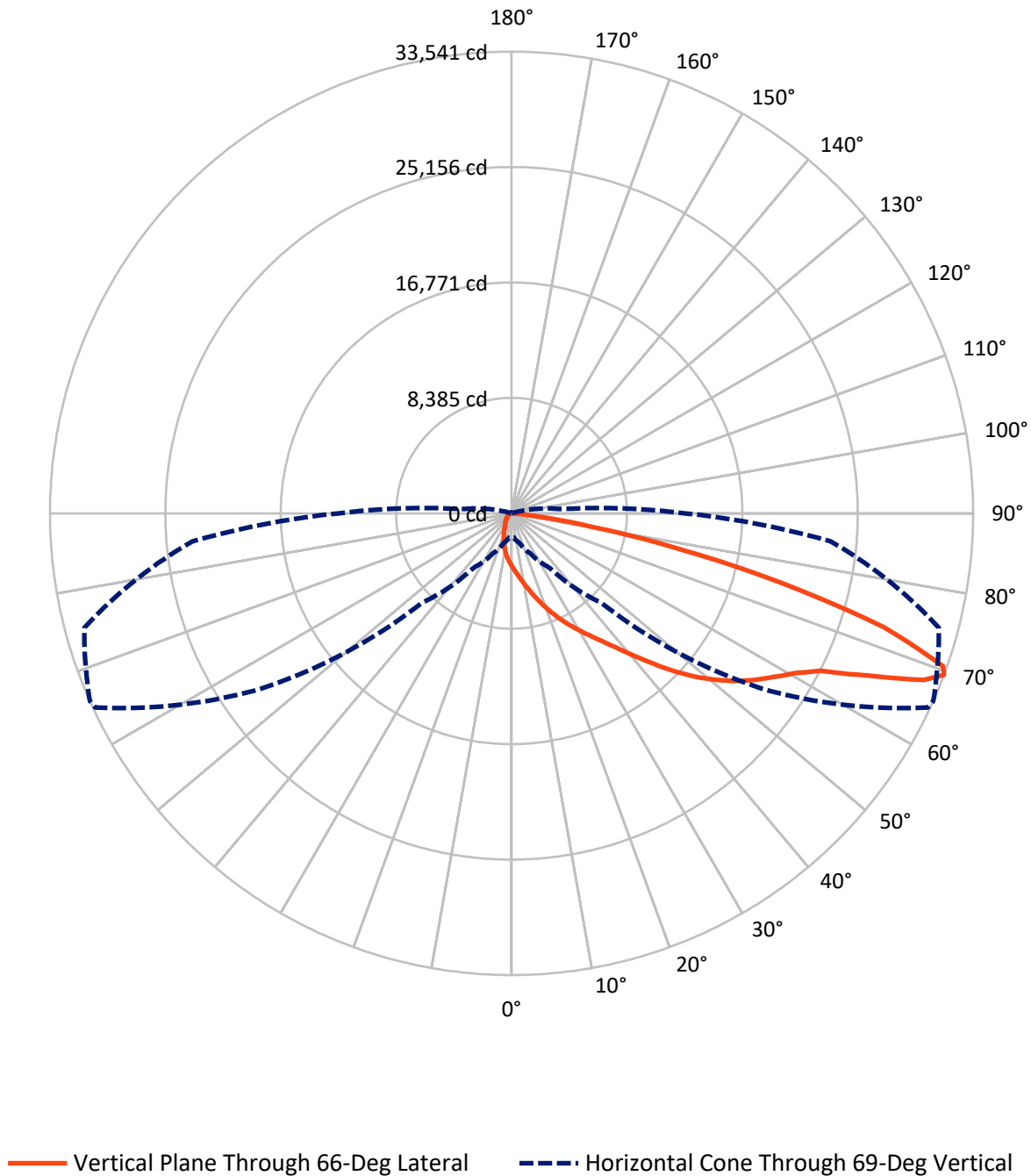
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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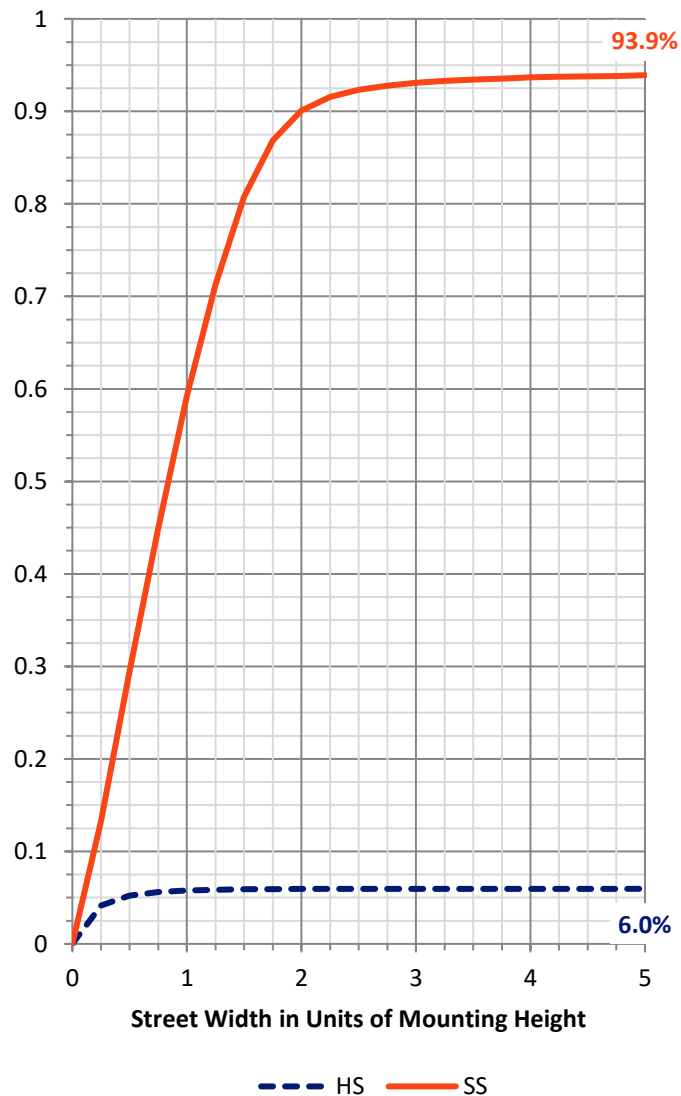
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.0	0.0	2023.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	31702.0	0.0	31702.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	33725.0	0.0	33725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	1.1
10°-20°	1104.1	3.3
20°-30°	1922.7	5.7
30°-40°	3373.4	10.0
40°-50°	5646.6	16.7
50°-60°	8300.0	24.6
60°-70°	8522.0	25.3
70°-80°	4207.0	12.5
80°-90°	278.2	0.8
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°	33725.0	100.0
0°-180°	33725.0	100.0

Coefficient of Utilization



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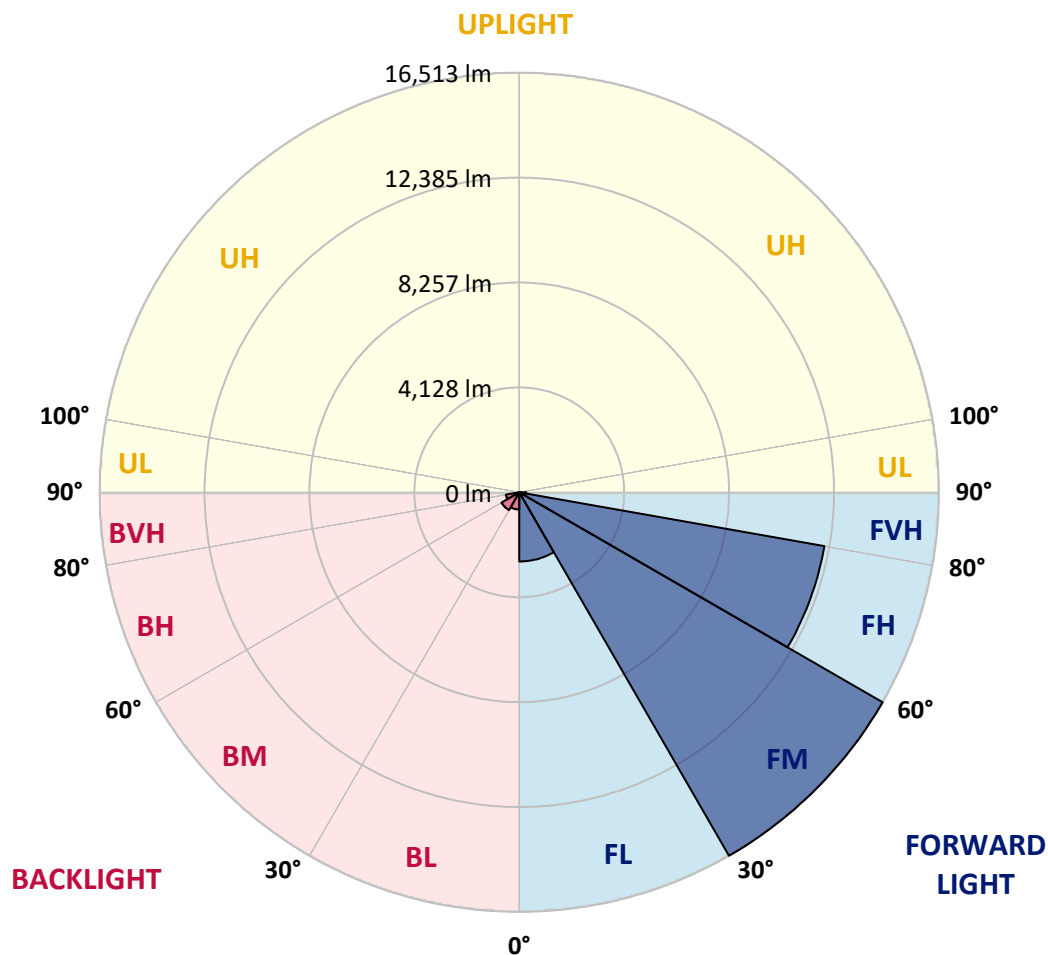
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2721.3	8.1			
FM	(30°-60°)	16513.4	49.0			
FH	(60°-80°)	12195.9	36.2			G5
FVH	(80°-90°)	271.4	0.8			G3/500
BL	(0°-30°)	676.6	2.0	B2/1000		
BM	(30°-60°)	806.6	2.4	B1/1000		
BH	(60°-80°)	533.1	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0
2.5°	4517.2	4498.0	4490.0	4454.7	4393.9	4347.4	4257.7	4153.6	4134.4	4033.4	3910.1
5°	5103.5	5087.4	5076.2	5026.6	4964.1	4847.2	4683.8	4490.0	4453.1	4260.9	4014.2
7.5°	5511.9	5540.8	5540.8	5508.7	5430.2	5342.1	5141.9	4877.6	4831.2	4536.4	4153.6
10°	5750.6	5785.9	5813.1	5840.3	5829.1	5793.9	5604.8	5306.9	5250.8	4860.0	4315.4
12.5°	5773.0	5808.3	5885.2	5998.9	6109.4	6189.5	6071.0	5782.6	5718.6	5234.8	4507.6
15°	5648.1	5684.9	5803.5	6024.5	6292.0	6525.9	6564.3	6309.7	6244.0	5681.7	4747.9
17.5°	5430.2	5454.3	5624.1	5930.0	6349.7	6779.0	7011.3	6875.1	6814.2	6192.7	5015.4
20°	5268.5	5286.1	5435.0	5763.4	6314.5	6937.6	7434.1	7475.8	7411.7	6740.6	5305.3
22.5°	5545.6	5577.6	5582.4	5737.8	6218.4	7016.1	7805.8	8066.9	8018.8	7322.0	5590.4
25°	6303.2	6340.1	6218.4	6122.2	6300.0	7051.3	8124.5	8672.4	8633.9	7948.3	5877.2
27.5°	7304.4	7342.8	7185.9	6899.1	6727.7	7184.3	8408.1	9287.5	9285.9	8611.5	6186.3
30°	8287.9	8326.4	8166.2	7879.5	7485.4	7560.7	8653.2	9931.4	9941.0	9295.5	6514.7
32.5°	9319.5	9367.6	9202.6	8834.2	8422.5	8211.0	8997.5	10578.6	10633.0	10088.4	6884.7
35°	10492.1	10498.5	10266.2	9880.2	9406.0	9080.8	9550.2	11304.2	11433.9	11070.3	7354.1
37.5°	11642.2	11688.6	11498.0	10889.3	10453.6	10085.2	10371.9	12210.8	12395.1	12270.1	7967.6
40°	12494.4	12592.1	12564.8	11908.1	11494.8	11232.1	11392.3	13288.9	13522.7	13666.9	8741.3
42.5°	13029.4	13103.1	13228.0	12832.4	12457.5	12500.8	12596.9	14544.7	14833.1	15259.1	9630.3
45°	13642.9	13678.1	13782.2	13607.6	13354.6	13790.3	13875.2	15959.2	16261.9	16971.5	10617.0
47.5°	14392.5	14475.8	14504.7	14344.5	14229.2	14930.8	15107.0	17245.4	17669.9	18805.6	11661.4
50°	15347.2	15369.7	15419.3	15315.2	15199.9	15911.1	16212.2	18595.8	18981.8	20646.1	12691.4
52.5°	16281.1	16361.2	16534.2	16468.5	16422.1	16745.7	17197.4	19813.2	20244.1	22180.7	13719.8
55°	16550.2	16619.1	17216.6	17625.1	18003.1	17774.0	18139.3	20904.0	21370.2	23551.9	14709.7
57.5°	15475.4	15614.8	16649.5	17713.2	19281.4	19372.7	19433.5	22023.7	22441.8	24602.7	15739.7
60°	12758.7	12785.9	14483.9	16308.4	19069.9	20767.9	21323.7	23226.7	23577.5	25581.4	16973.1
62.5°	8114.9	8392.0	10255.0	12830.8	16833.8	20566.0	23609.5	25046.4	25174.5	26755.6	18741.6
65°	3865.2	4044.7	5387.0	7927.5	12193.2	17982.3	25187.4	28338.2	28395.9	29083.0	21104.3
67.5°	2140.1	2226.6	2865.7	4267.3	7128.2	12717.0	24549.8	32237.1	32291.5	31460.2	23177.1
69°	1673.9	1747.6	2250.6	3216.5	4832.8	9140.1	22215.9	33379.2	33541.0	32141.0	23250.7
70°	1420.8	1492.9	1938.2	2716.7	3886.1	7062.5	19774.7	33095.7	33267.1	32076.9	22701.3
72.5°	869.8	911.4	1291.1	1912.6	2604.6	3552.9	12194.8	27989.0	28278.9	29424.2	19510.4
75°	586.3	608.7	807.3	1319.9	1862.9	1829.3	6335.3	19728.3	20356.2	22888.7	14410.2
77.5°	419.7	440.5	541.4	853.8	1305.5	1207.8	2868.9	12260.5	12395.1	13727.8	7858.6
80°	238.7	257.9	382.8	507.8	885.8	805.7	1140.5	5856.3	5923.6	5886.8	2623.8
82.5°	124.9	141.0	209.8	334.8	568.7	527.0	474.1	1960.7	1970.3	1638.7	575.1
85°	24.0	28.8	104.1	229.1	293.1	229.1	193.8	459.7	469.3	414.9	142.6
87.5°	0.0	1.6	41.6	51.3	57.7	59.3	62.5	89.7	96.1	129.7	38.4
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°	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0	3838.0
2.5°	3855.6	3798.0	3687.4	3559.3	3460.0	3362.3	3285.4	3205.3	3176.5	3162.0	3160.4
5°	3894.1	3772.3	3538.5	3298.2	3101.2	2915.4	2782.4	2655.9	2596.6	2569.4	2558.1
7.5°	3958.2	3762.7	3386.3	3019.5	2735.9	2503.7	2319.5	2181.7	2112.8	2084.0	2072.8
10°	4033.4	3749.9	3208.5	2724.7	2362.7	2122.4	1939.8	1803.7	1728.4	1696.4	1680.3
12.5°	4121.5	3727.5	3003.5	2426.8	2044.0	1803.7	1582.6	1414.4	1327.9	1291.1	1273.5
15°	4230.5	3705.1	2788.8	2146.5	1763.6	1470.5	1228.6	1114.9	1097.3	1090.9	1092.5
17.5°	4337.8	3669.8	2554.9	1869.3	1468.9	1148.5	1025.2	1018.8	1022.0	1022.0	1022.0
20°	4433.9	3589.7	2300.2	1632.3	1188.6	969.1	943.5	932.3	924.3	917.9	909.8
22.5°	4509.2	3482.4	2055.2	1396.8	970.7	887.4	847.4	812.1	783.3	764.1	754.5
25°	4560.4	3339.8	1830.9	1170.9	873.0	807.3	735.2	676.0	631.1	603.9	592.7
27.5°	4598.9	3186.1	1630.7	980.3	805.7	714.4	619.9	549.4	503.0	479.0	469.3
30°	4626.1	3011.5	1454.5	861.8	730.4	616.7	515.8	446.9	413.3	400.5	394.1
32.5°	4651.7	2817.6	1287.9	805.7	660.0	527.0	432.5	379.6	358.8	342.8	338.0
35°	4715.8	2638.2	1129.3	746.5	587.9	450.1	371.6	333.2	312.4	302.7	299.5
37.5°	4868.0	2505.3	977.1	685.6	515.8	389.2	325.2	297.9	278.7	269.1	265.9
40°	5113.1	2438.0	849.0	619.9	445.3	342.8	294.7	269.1	248.3	233.9	230.7
42.5°	5473.5	2447.6	759.3	554.2	389.2	306.0	265.9	235.5	213.0	200.2	197.0
45°	5910.8	2518.1	696.8	490.2	342.8	277.1	233.9	201.8	181.0	169.8	166.6
47.5°	6384.9	2631.8	645.5	432.5	306.0	249.9	201.8	168.2	150.6	141.0	139.4
50°	6884.7	2742.4	592.7	376.4	273.9	222.7	169.8	139.4	124.9	116.9	113.7
52.5°	7390.9	2870.5	544.6	325.2	246.7	190.6	141.0	113.7	102.5	96.1	92.9
55°	7935.5	2966.6	498.2	285.1	219.5	161.8	116.9	94.5	84.9	76.9	75.3
57.5°	8576.3	3115.6	450.1	246.7	187.4	134.6	96.1	75.3	67.3	59.3	57.7
60°	9441.3	3290.2	398.9	217.9	153.8	110.5	78.5	60.9	51.3	44.9	43.2
62.5°	10581.8	3484.0	334.8	190.6	124.9	89.7	62.5	48.1	36.8	28.8	28.8
65°	12028.2	3799.6	273.9	160.2	102.5	73.7	48.1	35.2	20.8	12.8	12.8
67.5°	12872.4	3854.0	221.1	131.4	83.3	62.5	40.0	24.0	6.4	1.6	0.0
69°	12601.7	3538.5	187.4	112.1	72.1	59.3	36.8	17.6	3.2	0.0	0.0
70°	12092.3	3235.7	165.0	99.3	65.7	56.1	35.2	12.8	3.2	0.0	0.0
72.5°	9992.3	2303.4	124.9	73.7	48.1	49.7	32.0	8.0	3.2	0.0	0.0
75°	7278.8	1400.0	89.7	51.3	30.4	36.8	22.4	3.2	1.6	0.0	0.0
77.5°	4049.5	660.0	56.1	28.8	19.2	22.4	11.2	0.0	0.0	0.0	0.0
80°	1315.1	179.4	25.6	16.0	11.2	12.8	4.8	0.0	0.0	0.0	0.0
82.5°	243.5	51.3	14.4	8.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0
85°	52.9	20.8	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	6.4	1.6	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)