

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: P323322

Luminaire Tested: **GAN-SA8B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 27887 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

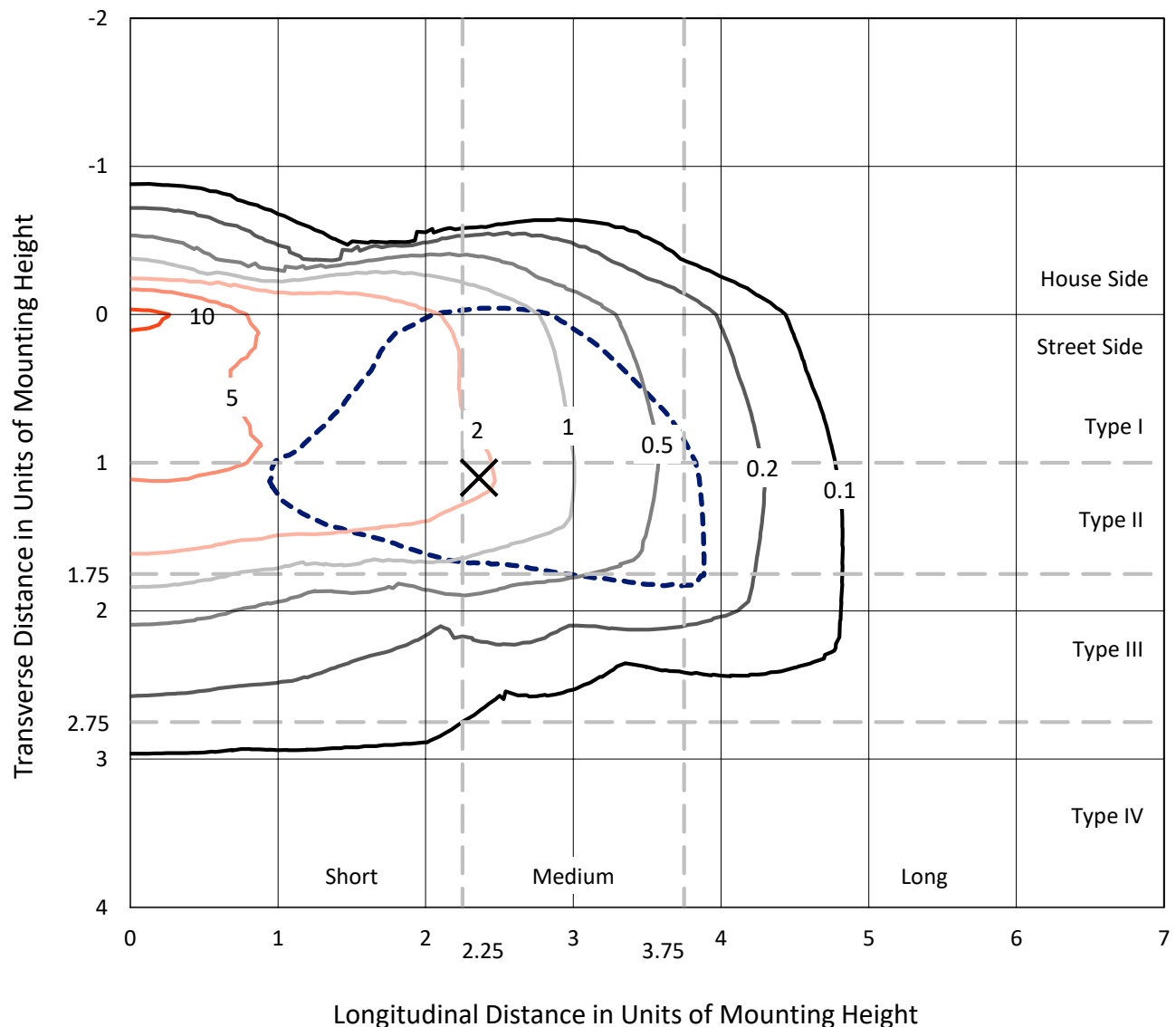


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Iso-Footcandle Lines of Horizontal Illumination

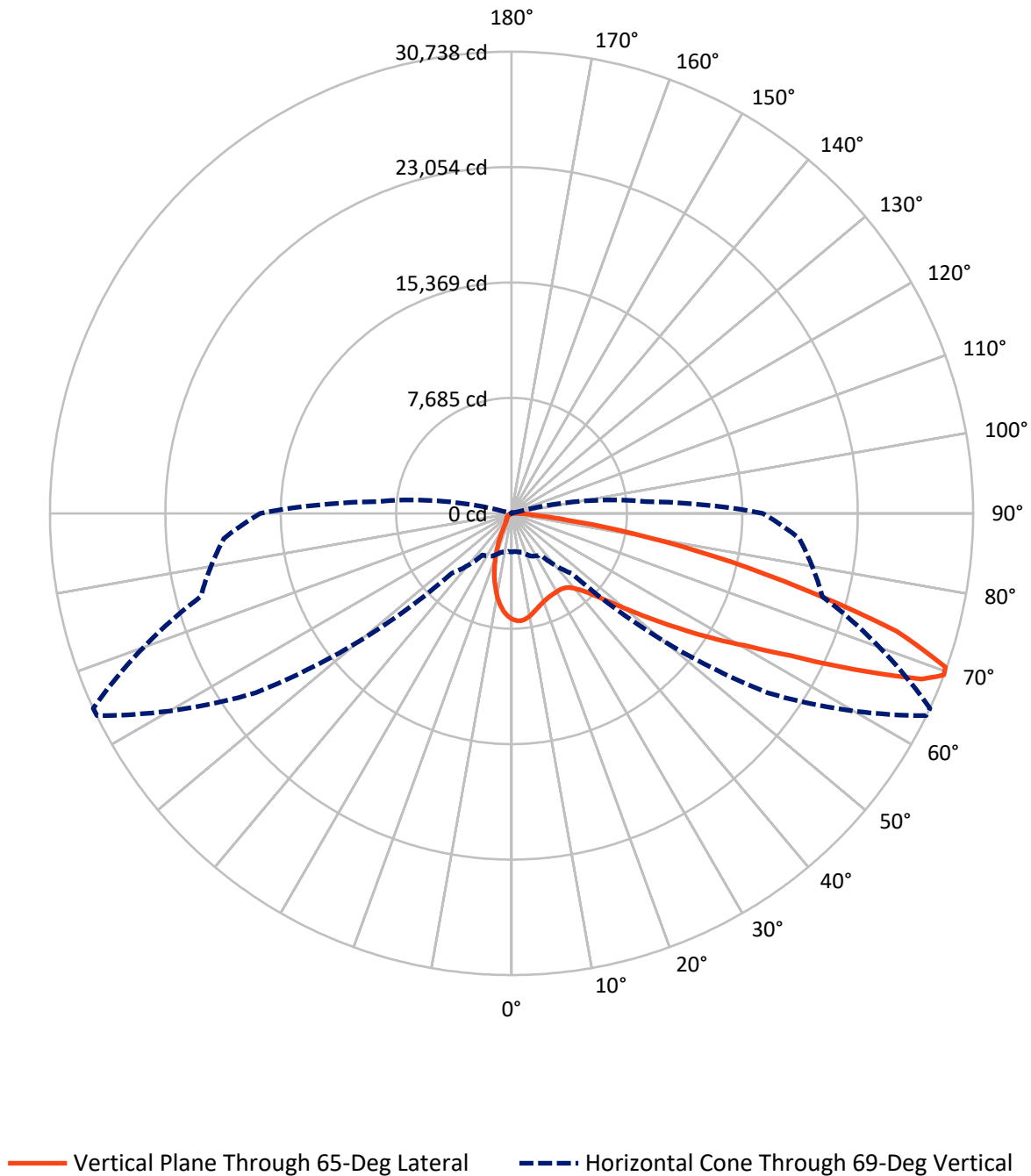
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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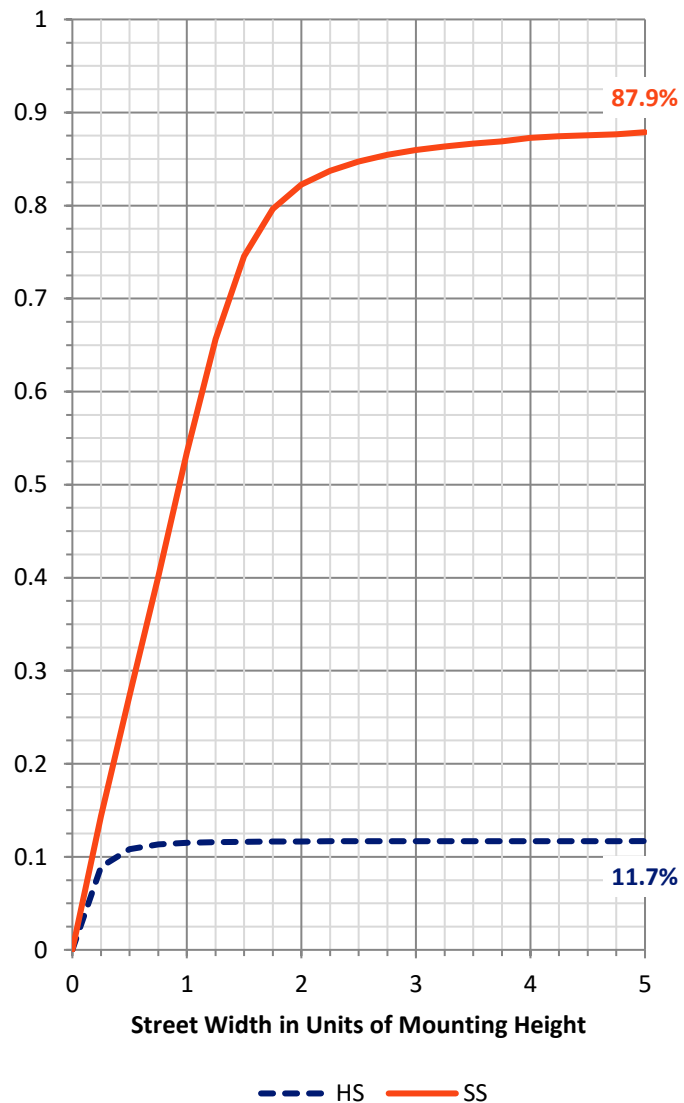
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.2	0.0	3287.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24599.8	0.0	24599.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	27887.0	0.0	27887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.3	2.1
10°-20°	1290.0	4.6
20°-30°	1786.7	6.4
30°-40°	2491.2	8.9
40°-50°	3872.1	13.9
50°-60°	6216.2	22.3
60°-70°	7031.6	25.2
70°-80°	4129.7	14.8
80°-90°	480.4	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°	27887.0	100.0
0°-180°	27887.0	100.0

Coefficient of Utilization



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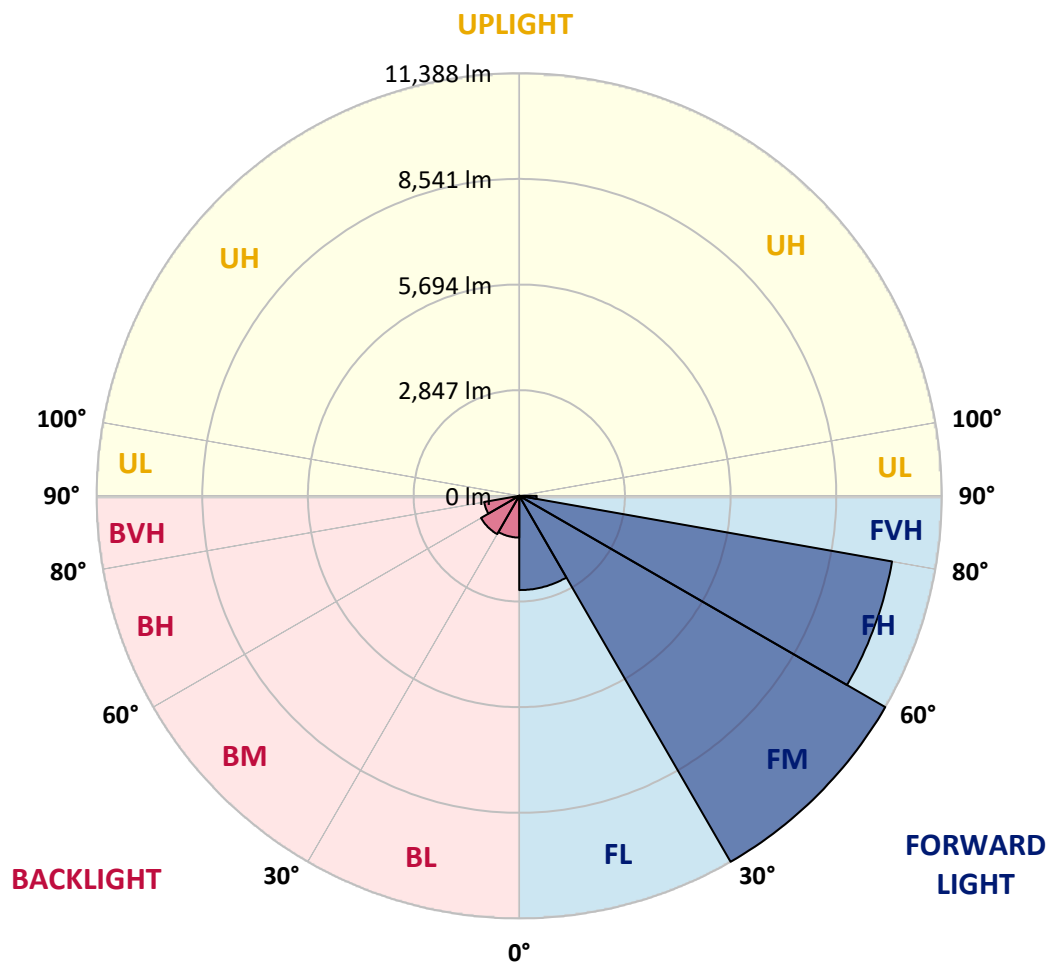
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2541.2	9.1			
FM	(30°-60°)	11388.2	40.8			
FH	(60°-80°)	10200.8	36.6			G4/12000
FVH	(80°-90°)	469.6	1.7			G3/500
BL	(0°-30°)	1124.7	4.0	B3/2500		
BM	(30°-60°)	1191.2	4.3	B2/2500		
BH	(60°-80°)	960.5	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1
2.5°	7109.6	7091.9	7106.1	7136.8	7152.1	7152.1	7163.9	7149.8	7154.5	7120.3	7070.7
5°	6664.8	6637.6	6676.6	6762.7	6868.9	6959.8	7094.3	7165.1	7172.2	7173.4	7115.5
7.5°	6185.7	6160.9	6218.7	6320.2	6457.1	6625.8	6860.7	7066.0	7077.8	7188.7	7146.2
10°	5796.3	5778.6	5845.8	5954.4	6114.9	6303.7	6591.6	6877.2	6911.4	7156.8	7141.5
12.5°	5487.1	5472.9	5536.7	5661.7	5825.8	6034.6	6335.5	6667.1	6713.1	7084.9	7117.9
15°	5261.7	5259.4	5312.5	5432.8	5614.5	5809.3	6117.2	6472.4	6525.5	7007.0	7114.4
17.5°	5143.7	5147.3	5186.2	5288.9	5444.6	5638.1	5933.2	6308.4	6366.2	6937.4	7132.1
20°	5131.9	5135.5	5156.7	5214.5	5340.8	5511.9	5783.3	6170.3	6230.5	6885.4	7160.4
22.5°	5235.8	5233.4	5239.3	5233.4	5304.2	5434.0	5684.2	6064.1	6133.8	6851.2	7182.8
25°	5435.2	5431.6	5429.3	5385.6	5338.4	5408.0	5642.9	6004.0	6070.0	6826.4	7195.8
27.5°	5712.5	5710.1	5706.6	5634.6	5493.0	5449.3	5647.6	5981.5	6037.0	6806.4	7193.4
30°	6077.1	6093.6	6088.9	5988.6	5767.9	5575.6	5697.1	5969.7	6018.1	6767.4	7168.6
32.5°	6505.5	6538.5	6564.5	6457.1	6181.0	5825.8	5811.6	5982.7	6018.1	6737.9	7123.8
35°	6950.3	6992.8	7088.4	7050.6	6687.2	6202.2	6008.7	6060.6	6090.1	6754.4	7102.6
37.5°	7388.1	7438.9	7646.5	7756.3	7350.4	6700.2	6315.5	6252.9	6268.3	6854.8	7126.2
40°	7896.7	7973.4	8288.5	8465.5	8142.2	7366.9	6774.5	6583.3	6589.2	7075.4	7235.9
42.5°	8564.6	8643.7	8984.7	9262.0	9034.3	8209.4	7397.6	7088.4	7082.5	7488.4	7494.3
45°	9378.8	9461.4	9814.2	10122.2	10019.6	9207.7	8195.3	7825.9	7818.8	8139.8	7984.0
47.5°	10301.6	10383.0	10698.1	11015.5	11126.4	10373.6	9211.3	8832.5	8815.9	9044.9	8740.4
50°	11093.4	11146.5	11436.8	11863.9	12364.3	11806.1	10475.1	10110.4	10092.7	10247.3	9850.8
52.5°	11381.3	11412.0	11707.0	12305.3	13553.7	13746.1	12135.4	11665.7	11652.7	11720.0	11329.4
55°	10798.4	10853.8	11216.1	12103.5	14198.0	15938.6	14231.1	13591.5	13493.6	13348.4	12875.2
57.5°	9210.1	9298.6	9688.0	10868.0	13897.1	17677.9	17310.9	15769.8	15625.9	14738.5	14131.9
60°	6900.8	7009.3	7332.7	8605.9	12291.1	18297.4	20676.4	18197.1	17872.6	15845.3	15287.2
62.5°	4735.4	4789.7	5009.2	5838.8	9052.0	17282.6	23491.9	21448.1	20855.7	17049.0	16536.8
65°	3616.8	3635.6	3725.3	4010.9	5390.3	14038.7	24611.7	25737.5	25021.2	18488.6	17833.7
67.5°	2914.7	2899.3	3023.2	3431.5	3609.7	8564.6	23305.4	29795.6	29460.4	20413.2	19138.8
69°	2570.1	2548.8	2675.1	3149.5	3390.2	5661.7	20834.5	30717.2	30738.4	21429.2	19228.5
70°	2312.8	2327.0	2452.1	2981.9	3315.9	4444.0	18474.4	30482.3	30649.9	21809.2	18690.4
72.5°	1544.6	1582.4	1833.8	2475.7	3188.4	3363.1	11154.8	26157.6	26801.8	20953.7	16035.3
75°	870.9	899.2	1197.7	1866.8	3004.3	3202.6	5891.9	19270.9	19894.0	17522.2	12365.5
77.5°	427.2	442.5	677.3	1204.8	2512.3	3051.5	3341.8	13090.0	13801.5	11436.8	6994.0
80°	180.5	188.8	338.7	743.4	1796.0	2912.3	2481.6	8056.0	8144.5	4480.5	1863.3
82.5°	69.6	72.0	142.8	463.7	1141.1	2270.4	2075.7	3819.7	3727.7	843.7	424.8
85°	8.3	9.4	51.9	278.5	634.9	1168.2	1686.3	1646.1	1523.4	167.6	218.3
87.5°	0.0	0.0	3.5	85.0	188.8	547.5	876.8	683.2	616.0	54.3	113.3
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°	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1	7047.1
2.5°	7029.4	7017.6	6953.9	6861.8	6774.5	6665.9	6562.1	6499.6	6450.0	6417.0	6455.9
5°	7048.3	6996.4	6802.8	6555.0	6311.9	6038.2	5783.3	5567.3	5482.4	5388.0	5430.5
7.5°	7042.4	6944.4	6596.3	6155.0	5708.9	5247.6	4811.0	4474.6	4300.0	4128.9	4172.6
10°	7012.9	6847.7	6320.2	5666.5	4998.6	4335.4	3715.9	3245.1	2981.9	2743.6	2777.8
12.5°	6948.0	6717.9	5994.5	5107.1	4213.9	3339.5	2613.7	2010.8	1687.4	1544.6	1562.3
15°	6909.0	6591.6	5649.9	4540.7	3376.0	2325.8	1597.8	1188.3	1040.8	993.6	999.5
17.5°	6890.2	6470.1	5293.6	3892.9	2519.3	1480.9	1032.5	911.0	879.1	870.9	873.2
20°	6871.3	6347.3	4926.6	3252.1	1735.8	995.9	848.4	813.0	801.2	790.6	793.0
22.5°	6839.4	6229.3	4532.5	2603.1	1170.6	808.3	764.7	730.4	705.7	692.7	695.0
25°	6800.5	6105.4	4130.1	1938.8	854.3	721.0	679.7	631.3	601.8	578.2	579.4
27.5°	6737.9	5953.2	3714.7	1411.3	717.5	645.5	590.0	536.9	487.3	460.2	460.2
30°	6650.6	5780.9	3253.3	1010.1	643.1	571.1	503.9	437.8	384.7	359.9	357.5
32.5°	6553.8	5601.6	2787.2	765.8	584.1	501.5	424.8	355.2	308.0	287.9	286.7
35°	6471.2	5408.0	2322.3	641.9	525.1	434.2	350.5	291.5	253.7	237.2	236.0
37.5°	6418.1	5214.5	1869.2	573.5	472.0	371.7	293.8	240.7	213.6	200.6	199.4
40°	6409.9	5070.6	1455.0	521.6	422.4	316.2	245.4	204.1	179.4	165.2	164.0
42.5°	6517.3	4988.0	1116.3	477.9	371.7	267.9	208.9	174.6	148.7	134.5	133.3
45°	6799.3	5013.9	859.1	439.0	321.0	226.6	177.0	145.1	121.5	110.9	108.6
47.5°	7313.8	5193.3	683.2	400.0	272.6	192.3	151.0	120.4	100.3	89.7	88.5
50°	8229.5	5614.5	571.1	357.5	227.7	164.0	125.1	97.9	81.4	72.0	70.8
52.5°	9444.9	6365.0	509.8	316.2	188.8	139.2	102.7	77.9	63.7	56.6	55.5
55°	10785.4	7273.7	469.6	271.4	154.6	115.6	81.4	61.4	49.6	43.7	41.3
57.5°	12094.0	8060.7	431.9	227.7	128.6	94.4	64.9	48.4	38.9	33.0	31.9
60°	13296.5	8784.1	388.2	182.9	105.0	74.3	50.7	37.8	30.7	24.8	24.8
62.5°	14583.9	9343.4	328.0	142.8	86.1	56.6	41.3	34.2	24.8	21.2	20.1
65°	15948.0	9758.8	257.2	110.9	67.3	42.5	34.2	35.4	20.1	15.3	14.2
67.5°	16955.7	9676.2	190.0	87.3	51.9	33.0	33.0	37.8	17.7	11.8	10.6
69°	16733.9	9004.8	159.3	75.5	44.8	28.3	30.7	37.8	16.5	10.6	9.4
70°	16090.8	8261.3	140.4	67.3	40.1	26.0	29.5	36.6	15.3	10.6	9.4
72.5°	13400.3	6222.3	109.7	50.7	31.9	21.2	24.8	31.9	15.3	10.6	8.3
75°	10079.8	3982.6	83.8	36.6	23.6	16.5	18.9	23.6	15.3	9.4	8.3
77.5°	5484.7	1436.1	60.2	24.8	16.5	13.0	13.0	17.7	14.2	7.1	4.7
80°	1410.1	361.1	37.8	16.5	13.0	9.4	8.3	11.8	8.3	1.2	0.0
82.5°	348.1	81.4	20.1	11.8	9.4	3.5	3.5	5.9	3.5	0.0	0.0
85°	191.2	40.1	13.0	8.3	4.7	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	97.9	11.8	3.5	2.4	1.2	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)