

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: P322044

Luminaire Tested: **GAN-SA0B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322044
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-SA0B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA 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: 29580 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 419
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

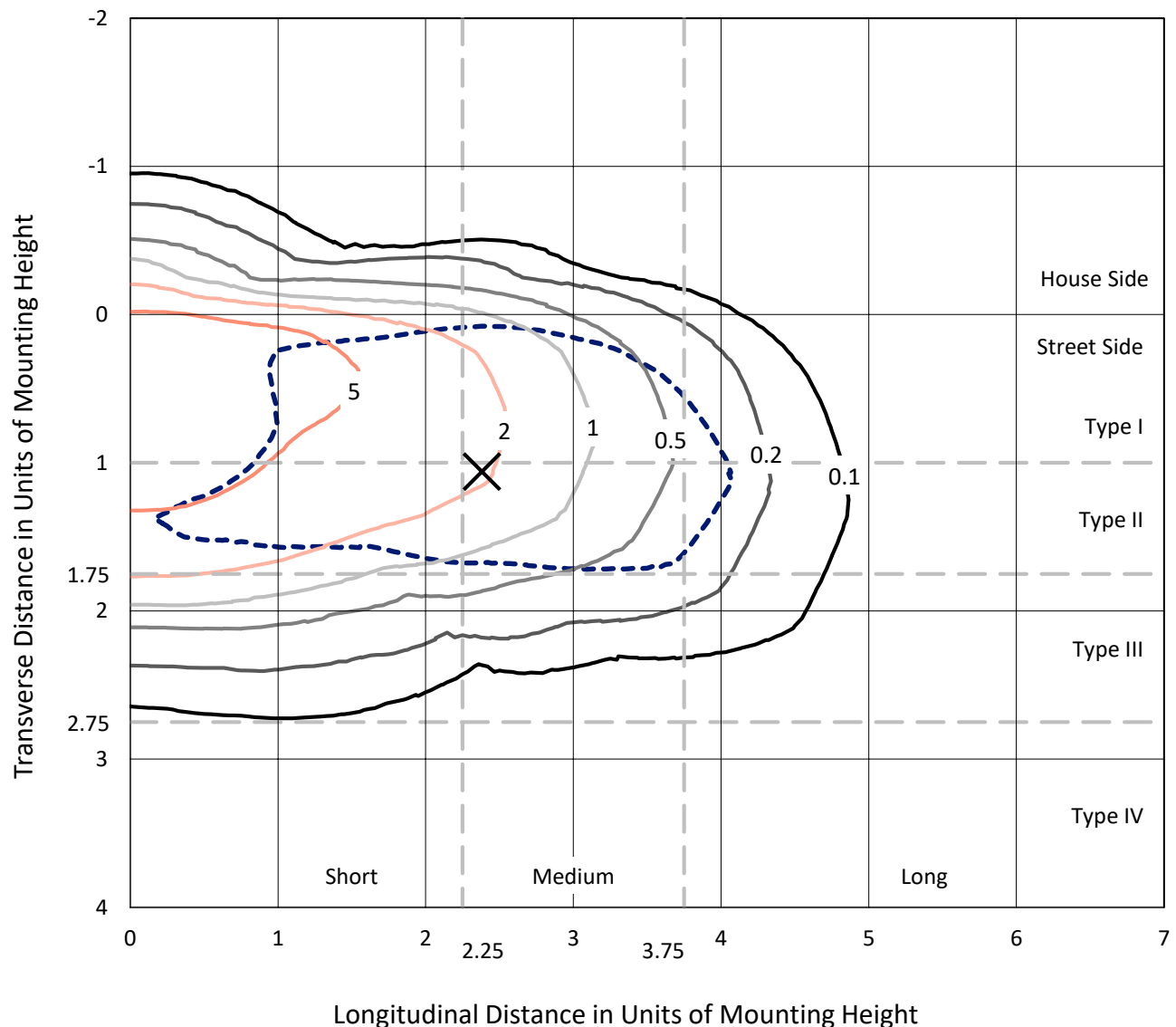


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

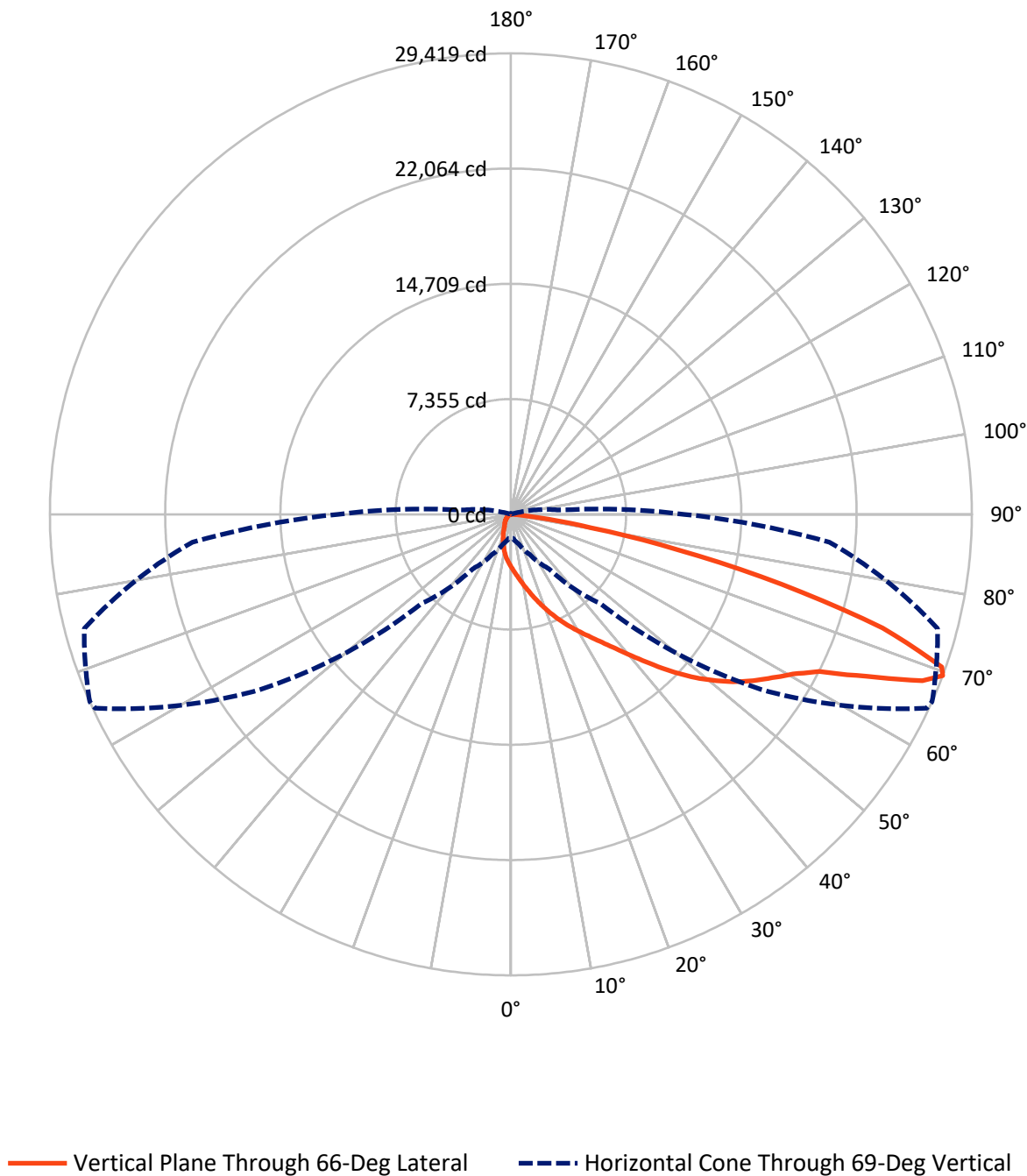


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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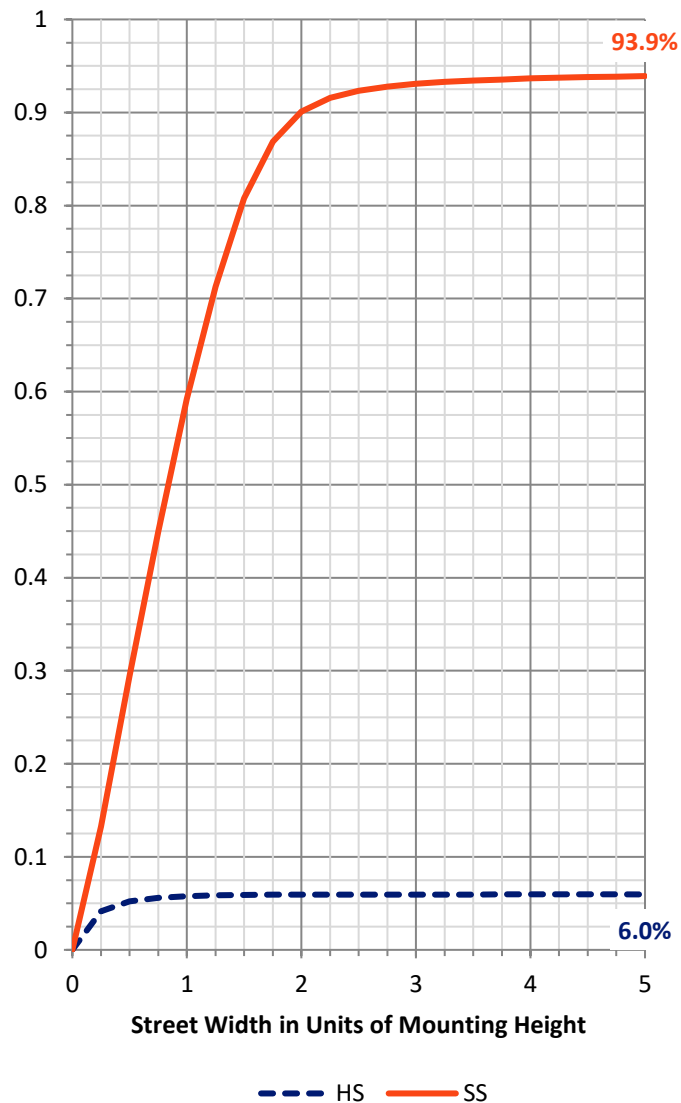
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.4	0.0	1774.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27805.6	0.0	27805.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	29580.0	0.0	29580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	1.1
10°-20°	968.4	3.3
20°-30°	1686.4	5.7
30°-40°	2958.8	10.0
40°-50°	4952.6	16.7
50°-60°	7279.8	24.6
60°-70°	7474.6	25.3
70°-80°	3690.0	12.5
80°-90°	244.0	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°	29580.0	100.0
0°-180°	29580.0	100.0

Coefficient of Utilization



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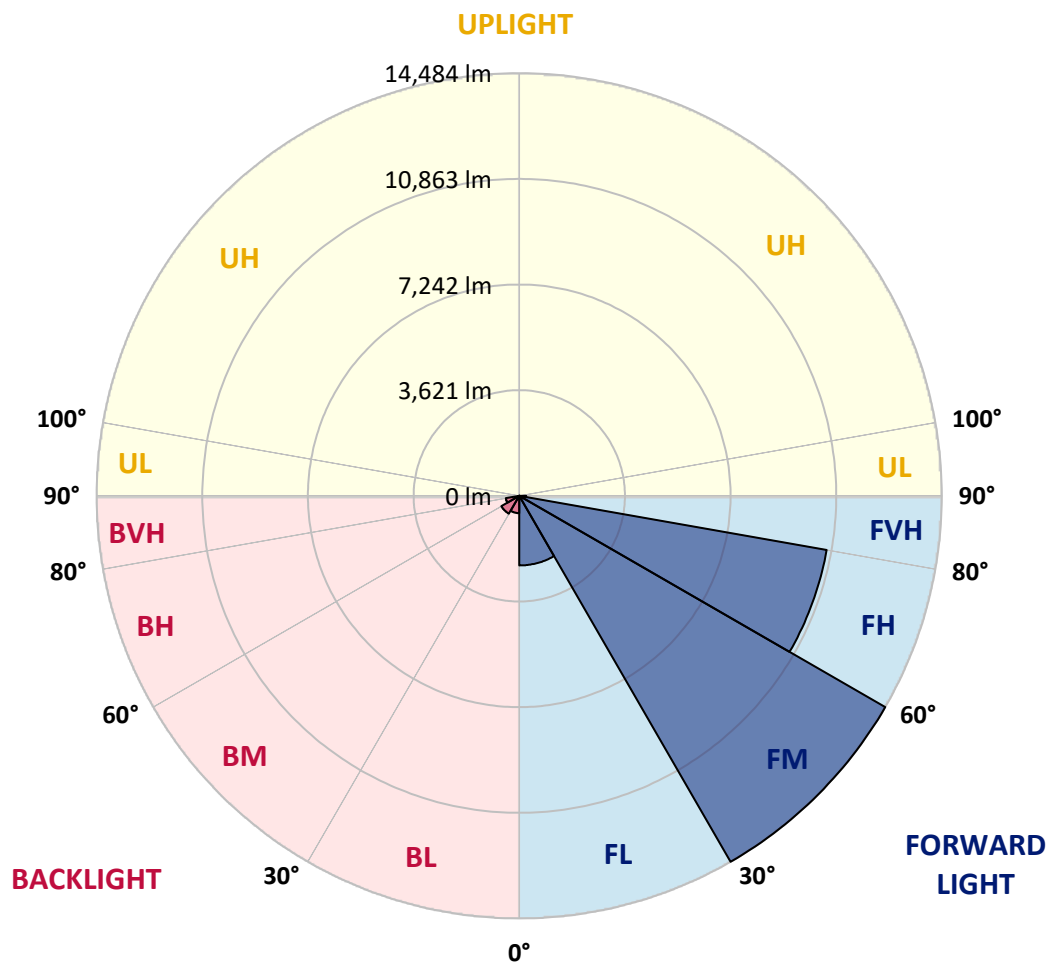
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2386.8	8.1			
FM	(30°-60°)	14483.8	49.0			
FH	(60°-80°)	10696.9	36.2			G4/12000
FVH	(80°-90°)	238.1	0.8			G3/500
BL	(0°-30°)	593.4	2.0	B2/1000		
BM	(30°-60°)	707.5	2.4	B1/1000		
BH	(60°-80°)	467.6	1.6	B1/500		G1/500
BVH	(80°-90°)	5.9	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3
2.5°	3962.0	3945.1	3938.1	3907.2	3853.8	3813.1	3734.4	3643.1	3626.2	3537.7	3429.5
5°	4476.2	4462.2	4452.3	4408.8	4354.0	4251.4	4108.1	3938.1	3905.8	3737.2	3520.8
7.5°	4834.5	4859.8	4859.8	4831.7	4762.8	4685.6	4509.9	4278.1	4237.4	3978.9	3643.1
10°	5043.8	5074.7	5098.6	5122.5	5112.7	5081.8	4916.0	4654.7	4605.5	4262.7	3785.0
12.5°	5063.5	5094.4	5161.8	5261.6	5358.5	5428.8	5324.8	5071.9	5015.7	4591.4	3953.6
15°	4953.9	4986.2	5090.2	5284.1	5518.7	5723.8	5757.6	5534.2	5476.6	4983.4	4164.3
17.5°	4762.8	4783.9	4932.8	5201.2	5569.3	5945.8	6149.5	6030.1	5976.7	5431.6	4398.9
20°	4620.9	4636.4	4767.1	5055.1	5538.4	6084.9	6520.4	6557.0	6500.8	5912.1	4653.2
22.5°	4864.0	4892.1	4896.3	5032.6	5454.1	6153.8	6846.4	7075.4	7033.3	6422.1	4903.3
25°	5528.5	5560.9	5454.1	5369.8	5525.7	6184.7	7126.0	7606.5	7572.8	6971.4	5154.8
27.5°	6406.6	6440.4	6302.7	6051.2	5900.9	6301.3	7374.7	8146.0	8144.6	7553.1	5426.0
30°	7269.3	7303.0	7162.5	6911.0	6565.4	6631.4	7589.6	8710.8	8719.2	8153.0	5714.0
32.5°	8174.1	8216.2	8071.5	7748.4	7387.3	7201.9	7891.7	9278.4	9326.2	8848.5	6038.5
35°	9202.5	9208.1	9004.4	8665.8	8250.0	7964.8	8376.4	9914.8	10028.6	9709.7	6450.2
37.5°	10211.3	10252.0	10084.8	9551.0	9168.8	8845.7	9097.2	10710.1	10871.6	10762.0	6988.3
40°	10958.7	11044.4	11020.6	10444.5	10082.0	9851.6	9992.1	11655.6	11860.7	11987.2	7666.9
42.5°	11428.0	11492.6	11602.2	11255.2	10926.4	10964.4	11048.7	12757.1	13010.0	13383.7	8446.7
45°	11966.1	11997.0	12088.3	11935.2	11713.2	12095.4	12169.8	13997.7	14263.2	14885.6	9312.1
47.5°	12623.6	12696.7	12722.0	12581.5	12480.3	13095.7	13250.2	15125.9	15498.2	16494.3	10228.2
50°	13461.0	13480.7	13524.2	13432.9	13331.7	13955.5	14219.7	16310.3	16648.8	18108.6	11131.5
52.5°	14280.1	14350.3	14502.1	14444.5	14403.7	14687.5	15083.7	17378.0	17756.0	19454.6	12033.5
55°	14516.1	14576.5	15100.6	15458.8	15790.4	15589.5	15909.8	18334.8	18743.7	20657.2	12901.8
57.5°	13573.4	13695.6	14603.2	15536.1	16911.6	16991.7	17045.0	19316.9	19683.6	21578.9	13805.2
60°	11190.6	11214.4	12703.7	14304.0	16726.1	18215.4	18702.9	20372.0	20679.7	22437.3	14887.0
62.5°	7117.6	7360.6	8994.6	11253.8	14764.8	18038.4	20707.8	21968.1	22080.4	23467.2	16438.1
65°	3390.2	3547.5	4724.9	6953.2	10694.6	15772.2	22091.7	24855.3	24905.8	25508.6	18510.4
67.5°	1877.0	1952.9	2513.5	3742.8	6252.1	11154.0	21532.5	28274.9	28322.7	27593.5	20328.5
69°	1468.2	1532.8	1974.0	2821.2	4238.8	8016.7	19485.5	29276.7	29418.6	28190.6	20393.1
70°	1246.2	1309.4	1700.0	2382.8	3408.4	6194.5	17344.3	29028.0	29178.3	28134.4	19911.2
72.5°	762.9	799.4	1132.4	1677.5	2284.5	3116.2	10696.0	24549.0	24803.3	25807.8	17112.5
75°	514.2	533.9	708.1	1157.7	1634.0	1604.5	5556.6	17303.6	17854.3	20075.6	12639.1
77.5°	368.1	386.4	474.9	748.8	1145.0	1059.3	2516.3	10753.6	10871.6	12040.6	6892.8
80°	209.3	226.2	335.8	445.4	776.9	706.7	1000.3	5136.6	5195.6	5163.3	2301.3
82.5°	109.6	123.6	184.1	293.6	498.8	462.2	415.9	1719.7	1728.1	1437.3	504.4
85°	21.1	25.3	91.3	200.9	257.1	200.9	170.0	403.2	411.7	363.9	125.0
87.5°	0.0	1.4	36.5	45.0	50.6	52.0	54.8	78.7	84.3	113.8	33.7
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°	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3
2.5°	3381.8	3331.2	3234.2	3121.8	3034.7	2949.0	2881.6	2811.3	2786.0	2773.4	2772.0
5°	3415.5	3308.7	3103.6	2892.8	2720.0	2557.0	2440.4	2329.4	2277.5	2253.6	2243.7
7.5°	3471.7	3300.3	2970.1	2648.4	2399.7	2196.0	2034.4	1913.6	1853.2	1827.9	1818.0
10°	3537.7	3289.0	2814.1	2389.8	2072.3	1861.6	1701.4	1582.0	1516.0	1487.9	1473.8
12.5°	3615.0	3269.4	2634.3	2128.5	1792.7	1582.0	1388.1	1240.6	1164.7	1132.4	1116.9
15°	3710.5	3249.7	2446.0	1882.7	1546.9	1289.8	1077.6	977.9	962.4	956.8	958.2
17.5°	3804.6	3218.8	2240.9	1639.6	1288.4	1007.4	899.2	893.6	896.4	896.4	896.4
20°	3888.9	3148.5	2017.5	1431.7	1042.5	850.0	827.5	817.7	810.7	805.0	798.0
22.5°	3955.0	3054.4	1802.6	1225.1	851.4	778.4	743.2	712.3	687.0	670.2	661.7
25°	3999.9	2929.4	1605.9	1027.0	765.7	708.1	644.9	592.9	553.6	529.7	519.8
27.5°	4033.7	2794.5	1430.3	859.8	706.7	626.6	543.7	481.9	441.2	420.1	411.7
30°	4057.5	2641.3	1275.7	755.9	640.7	540.9	452.4	392.0	362.5	351.2	345.6
32.5°	4080.0	2471.3	1129.6	706.7	578.8	462.2	379.3	333.0	314.7	300.7	296.4
35°	4136.2	2314.0	990.5	654.7	515.6	394.8	326.0	292.2	274.0	265.5	262.7
37.5°	4269.7	2197.4	857.0	601.3	452.4	341.4	285.2	261.3	244.5	236.0	233.2
40°	4484.7	2138.4	744.6	543.7	390.6	300.7	258.5	236.0	217.8	205.1	202.3
42.5°	4800.8	2146.8	666.0	486.1	341.4	268.3	233.2	206.5	186.9	175.6	172.8
45°	5184.3	2208.6	611.2	429.9	300.7	243.1	205.1	177.0	158.8	148.9	146.1
47.5°	5600.2	2308.4	566.2	379.3	268.3	219.2	177.0	147.5	132.1	123.6	122.2
50°	6038.5	2405.3	519.8	330.2	240.2	195.3	148.9	122.2	109.6	102.6	99.8
52.5°	6482.5	2517.7	477.7	285.2	216.4	167.2	123.6	99.8	89.9	84.3	81.5
55°	6960.2	2602.0	436.9	250.1	192.5	141.9	102.6	82.9	74.5	67.4	66.0
57.5°	7522.2	2732.7	394.8	216.4	164.4	118.0	84.3	66.0	59.0	52.0	50.6
60°	8280.9	2885.8	349.8	191.1	134.9	96.9	68.8	53.4	45.0	39.3	37.9
62.5°	9281.2	3055.8	293.6	167.2	109.6	78.7	54.8	42.1	32.3	25.3	25.3
65°	10549.9	3332.6	240.2	140.5	89.9	64.6	42.1	30.9	18.3	11.2	11.2
67.5°	11290.3	3380.3	193.9	115.2	73.1	54.8	35.1	21.1	5.6	1.4	0.0
69°	11052.9	3103.6	164.4	98.3	63.2	52.0	32.3	15.5	2.8	0.0	0.0
70°	10606.1	2838.0	144.7	87.1	57.6	49.2	30.9	11.2	2.8	0.0	0.0
72.5°	8764.2	2020.3	109.6	64.6	42.1	43.6	28.1	7.0	2.8	0.0	0.0
75°	6384.2	1227.9	78.7	45.0	26.7	32.3	19.7	2.8	1.4	0.0	0.0
77.5°	3551.8	578.8	49.2	25.3	16.9	19.7	9.8	0.0	0.0	0.0	0.0
80°	1153.5	157.4	22.5	14.0	9.8	11.2	4.2	0.0	0.0	0.0	0.0
82.5°	213.6	45.0	12.6	7.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0
85°	46.4	18.3	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	5.6	1.4	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)