

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: P321533

Luminaire Tested: **GAN-SA9C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40672 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

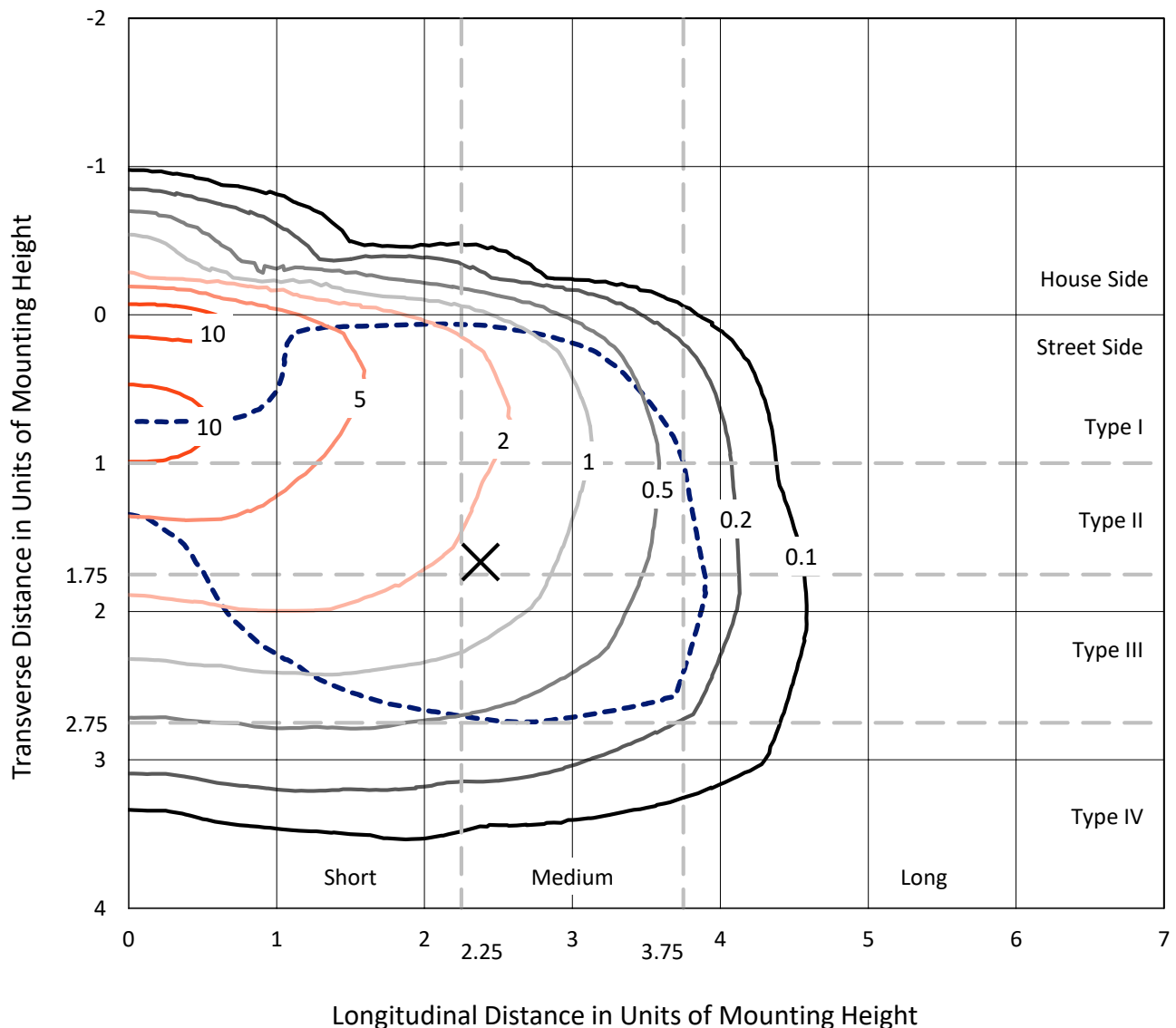
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

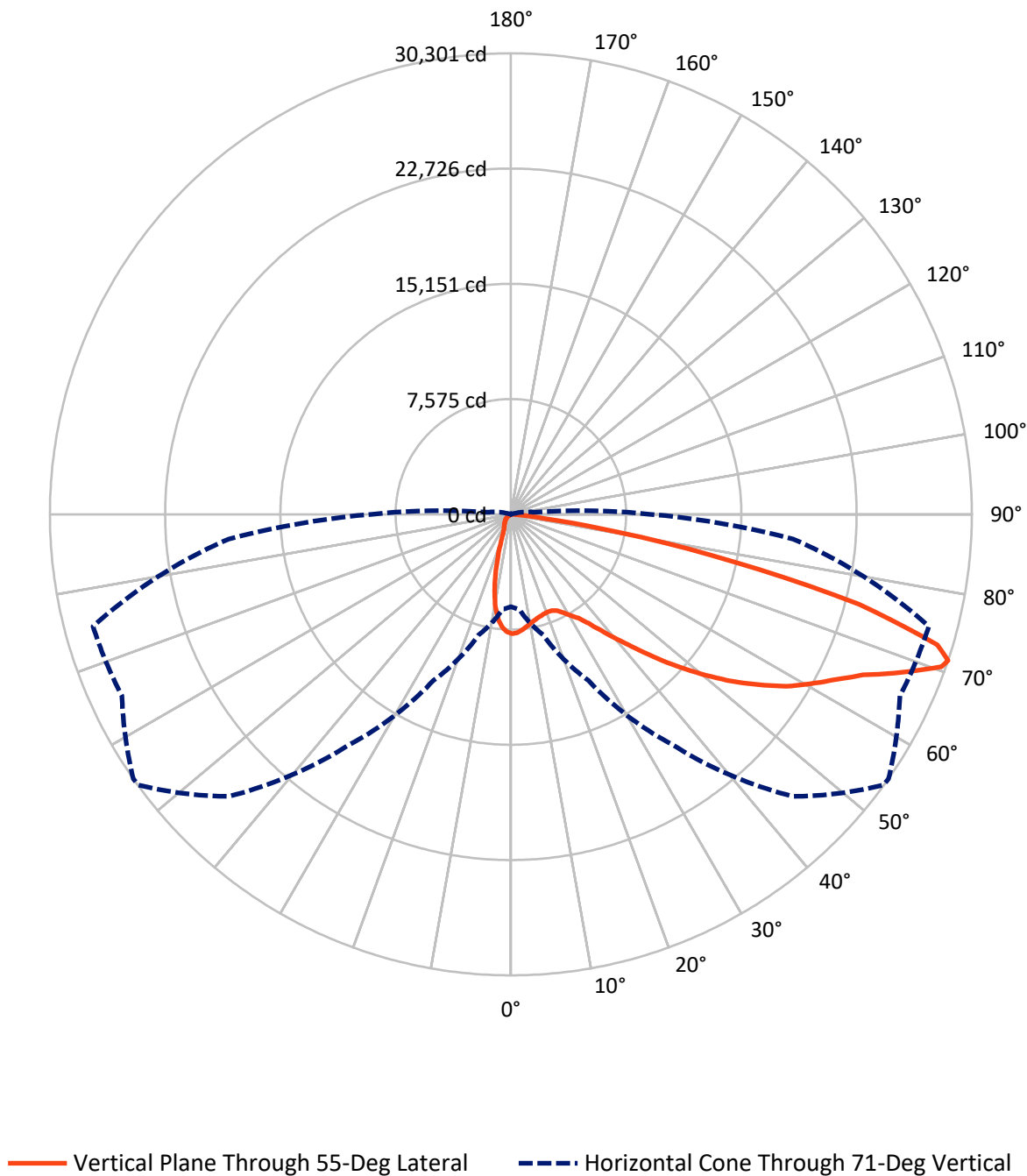
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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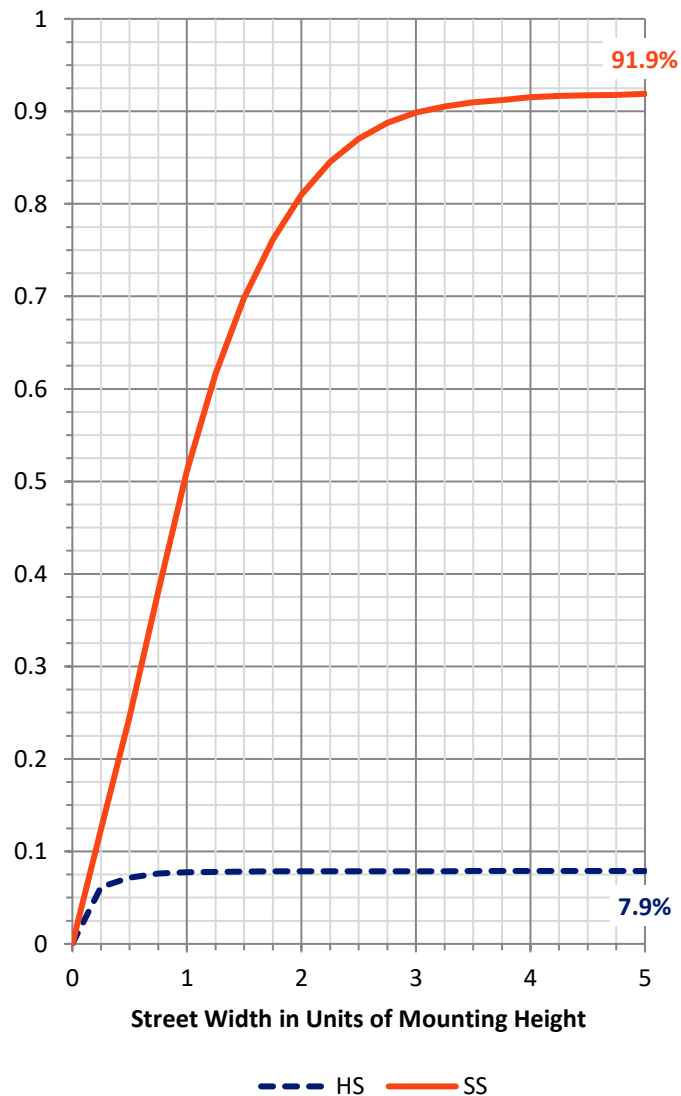
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.1	0.0	3220.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	37451.9	0.0	37451.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	40672.0	0.0	40672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.8	1.6
10°-20°	1509.8	3.7
20°-30°	2426.3	6.0
30°-40°	4122.5	10.1
40°-50°	6398.6	15.7
50°-60°	8602.8	21.2
60°-70°	10524.0	25.9
70°-80°	6153.2	15.1
80°-90°	266.0	0.7
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°	40672.0	100.0
0°-180°	40672.0	100.0

Coefficient of Utilization



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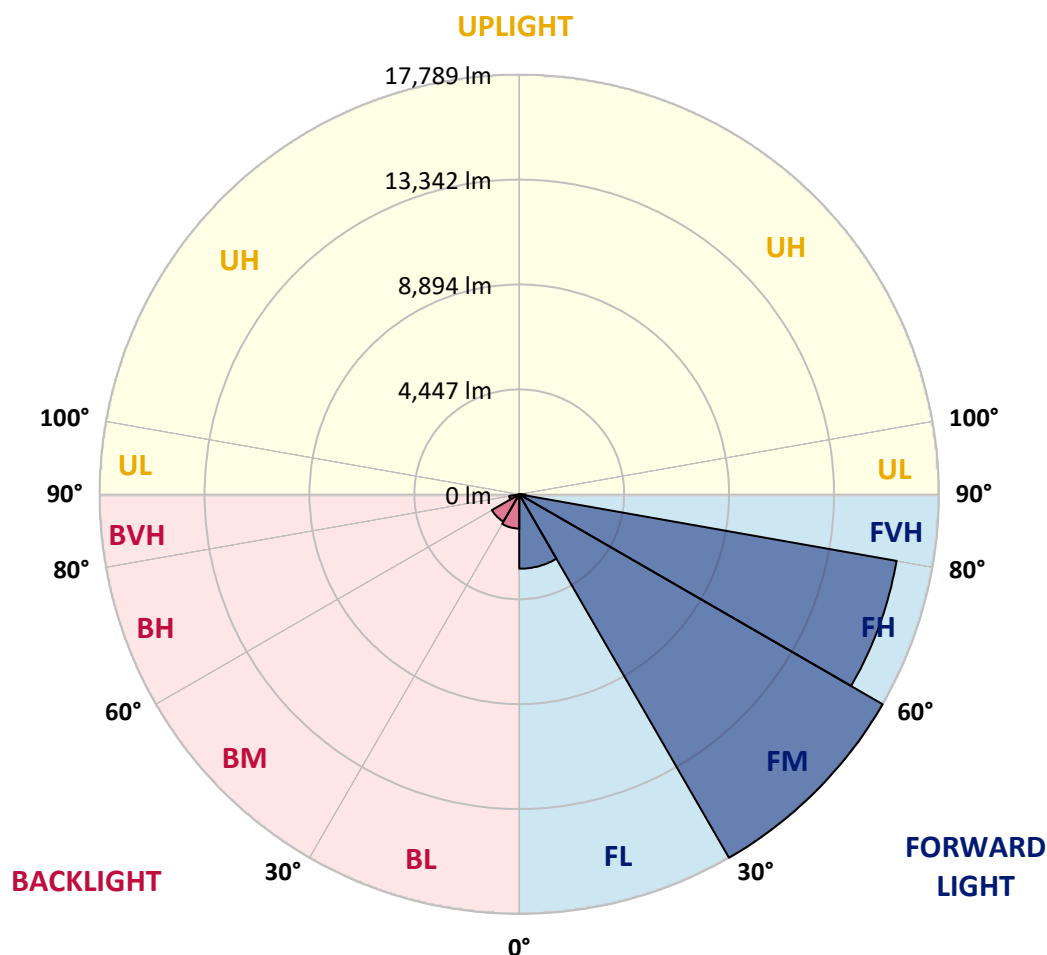
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3155.6	7.8			
FM	(30°-60°)	17788.8	43.7			
FH	(60°-80°)	16245.8	39.9			G5
FVH	(80°-90°)	261.8	0.6			G3/500
BL	(0°-30°)	1449.4	3.6	B3/2500		
BM	(30°-60°)	1335.1	3.3	B2/2500		
BH	(60°-80°)	431.4	1.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	54°	55°	65°	75°	85°
0°	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7
2.5°	7613.6	7622.8	7655.6	7670.2	7704.9	7763.4	7792.6	7794.4	7841.9	7860.2	7874.8
5°	7074.9	7129.7	7184.5	7242.9	7348.8	7489.4	7628.2	7641.0	7794.4	7907.7	7967.9
7.5°	6611.0	6660.3	6726.1	6819.2	6969.0	7189.9	7421.9	7449.3	7739.6	7997.1	8132.3
10°	6134.4	6174.5	6269.5	6406.5	6612.8	6908.7	7221.0	7266.6	7690.3	8117.7	8355.1
12.5°	5624.8	5648.6	5763.6	5960.9	6264.0	6640.2	7051.1	7111.4	7659.3	8256.5	8618.1
15°	5237.7	5248.6	5358.2	5562.8	5909.7	6399.2	6919.7	6992.7	7666.6	8422.7	8904.8
17.5°	5139.1	5144.5	5203.0	5343.6	5650.4	6183.7	6815.6	6905.0	7688.5	8585.2	9193.3
20°	5539.0	5500.7	5440.4	5418.5	5550.0	6054.0	6753.5	6853.9	7717.7	8729.5	9452.7
22.5°	6636.6	6523.4	6273.2	5939.0	5736.2	6063.1	6769.9	6870.4	7810.9	8906.6	9752.2
25°	8265.6	8108.5	7683.0	7025.6	6393.7	6326.1	6906.9	7009.1	7991.7	9118.5	10038.9
27.5°	10119.2	9964.0	9443.5	8504.8	7427.4	6846.6	7221.0	7316.0	8260.1	9306.6	10258.0
30°	11894.4	11850.5	11236.9	10170.4	8727.6	7690.3	7626.4	7706.8	8459.2	9419.8	10431.5
32.5°	13399.2	13329.8	12836.7	11799.4	10216.0	8703.9	8103.1	8126.8	8608.9	9565.9	10658.0
35°	14794.4	14708.6	14275.8	13295.1	11742.8	9942.1	8837.2	8802.5	8935.8	9859.9	10986.7
37.5°	16012.6	16091.1	15610.8	14677.6	13112.5	11229.6	9827.0	9723.0	9447.2	10338.4	11463.4
40°	17031.6	17031.6	16781.4	16003.4	14591.7	12560.9	10946.5	10809.6	10216.0	11076.2	12067.9
42.5°	17398.7	17477.2	17570.3	17130.2	15915.8	13945.2	12193.9	12051.4	11299.0	12122.6	12831.2
45°	17420.6	17544.8	18021.4	18019.6	17112.0	15320.4	13600.1	13532.5	12687.0	13466.8	13777.2
47.5°	17112.0	17267.2	18052.5	18498.1	18059.8	16600.6	15137.8	15053.8	14317.8	15114.0	14767.1
50°	16635.3	16807.0	17720.1	18686.2	18704.4	17714.6	16757.7	16631.7	16113.0	16996.9	15789.8
52.5°	15782.4	16114.8	17422.4	18730.0	19128.1	18677.1	18299.0	18244.2	18121.9	18810.4	16604.3
55°	13958.0	14326.9	16675.5	18744.6	19520.8	19529.9	19743.6	19758.2	20004.7	20505.1	17210.6
57.5°	13096.0	13304.2	15371.5	18814.0	20103.4	20497.8	21215.5	21328.8	21710.5	22114.1	17902.7
60°	12553.6	12800.2	14728.7	18719.1	21018.3	21767.1	22579.7	22618.1	23027.2	23774.1	18839.6
62.5°	12120.8	12363.7	14323.3	18353.8	22046.5	23293.8	23912.9	23916.6	24223.4	25751.9	19904.3
65°	11052.5	11257.0	13503.3	17942.9	22725.8	24804.1	25461.6	25437.8	25688.0	27837.5	21140.7
67.5°	9507.5	9664.5	11828.6	16385.1	22470.2	26177.5	27799.2	27720.6	27417.5	29640.0	21626.4
70°	7350.7	7407.3	9323.0	13654.9	20074.1	26705.2	30058.2	30018.1	28478.5	29316.8	19845.9
71°	6075.9	6262.2	8216.3	12051.4	18468.9	26217.6	30277.4	30301.1	28211.9	28436.5	18620.4
72.5°	3528.3	3687.2	5955.4	9255.4	15680.2	24183.2	29141.5	29313.1	26966.4	25865.2	15904.8
75°	756.1	809.0	2207.9	4479.8	8625.4	16949.4	23001.6	23613.4	21978.9	17595.9	9586.0
77.5°	526.0	568.0	946.0	2032.6	2850.8	8375.2	14288.6	14978.9	13130.7	6612.8	3068.1
80°	416.4	463.9	737.8	1004.4	770.7	2701.0	6693.2	7115.1	4379.3	1475.6	516.8
82.5°	231.9	275.8	575.3	542.4	295.9	513.2	1873.7	2118.4	876.6	297.7	122.4
85°	67.6	82.2	370.7	394.5	126.0	98.6	319.6	396.3	166.2	78.5	54.8
87.5°	0.0	0.0	179.0	151.6	36.5	14.6	29.2	32.9	32.9	32.9	36.5
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°	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7	7843.7
2.5°	7874.8	7887.6	7841.9	7781.6	7717.7	7639.2	7557.0	7493.1	7491.3	7460.2	7429.2
5°	7971.6	7964.3	7838.3	7646.5	7420.1	7184.5	6959.8	6706.0	6622.0	6517.9	6483.2
7.5°	8150.6	8099.4	7832.8	7412.7	6916.0	6422.9	5913.4	5400.2	5181.1	4983.8	4949.1
10°	8375.2	8278.4	7798.1	7062.1	6150.8	5241.3	4472.5	3774.9	3468.0	3232.5	3221.5
12.5°	8608.9	8461.0	7701.3	6532.5	5148.2	3869.8	2984.1	2297.4	2041.7	1877.4	1892.0
15°	8853.7	8632.7	7493.1	5818.4	4006.8	2626.1	1833.6	1430.0	1327.7	1285.7	1296.6
17.5°	9103.9	8751.4	7202.7	4958.3	2880.0	1694.8	1269.2	1156.0	1156.0	1165.1	1168.8
20°	9321.2	8815.3	6775.4	3994.0	1952.3	1234.5	1110.4	1093.9	1103.1	1117.7	1119.5
22.5°	9536.7	8819.0	6218.4	3017.0	1366.0	1081.1	1057.4	1050.1	1055.6	1072.0	1073.8
25°	9712.0	8775.1	5520.8	2145.8	1090.3	1019.0	1008.1	1004.4	1008.1	1028.2	1028.2
27.5°	9783.2	8616.2	4669.7	1508.5	977.0	949.6	946.0	949.6	955.1	969.7	971.6
30°	9790.5	8338.7	3742.0	1092.1	885.7	856.5	863.8	876.6	871.1	867.5	871.1
32.5°	9808.8	8017.2	2838.0	898.5	809.0	763.4	754.2	754.2	732.3	719.5	712.2
35°	9869.1	7639.2	2058.2	807.2	730.5	677.5	642.8	602.7	560.7	538.7	533.3
37.5°	9964.0	7242.9	1473.8	746.9	661.1	600.8	535.1	463.9	403.6	387.2	387.2
40°	10137.5	6833.8	1090.3	699.5	606.3	531.4	432.8	339.7	284.9	275.8	275.8
42.5°	10411.4	6402.8	869.3	657.4	558.8	460.2	330.6	246.5	206.4	200.9	199.1
45°	10696.3	5928.0	759.7	617.3	507.7	378.0	244.7	182.6	158.9	153.4	153.4
47.5°	10981.2	5422.1	706.8	578.9	458.4	294.0	182.6	144.3	133.3	133.3	135.1
50°	11222.3	4894.3	668.4	536.9	394.5	222.8	144.3	122.4	118.7	126.0	127.8
52.5°	11282.6	4375.7	620.9	484.0	315.9	169.8	118.7	107.7	107.7	107.7	107.7
55°	11246.0	3973.9	558.8	418.2	233.8	135.1	102.3	95.0	93.1	93.1	93.1
57.5°	11370.2	3736.5	447.4	325.1	168.0	109.6	89.5	84.0	80.4	78.5	78.5
60°	11620.4	3581.3	319.6	233.8	126.0	91.3	76.7	71.2	65.7	62.1	62.1
62.5°	11952.8	3446.1	237.4	173.5	96.8	73.0	63.9	58.4	51.1	47.5	47.5
65°	12208.5	3205.1	180.8	129.7	73.0	58.4	49.3	47.5	36.5	32.9	31.0
67.5°	11817.7	2675.5	146.1	95.0	54.8	45.7	38.4	36.5	21.9	18.3	18.3
70°	10135.7	1862.8	116.9	69.4	40.2	36.5	31.0	23.7	16.4	14.6	14.6
71°	9191.5	1556.0	105.9	58.4	34.7	34.7	29.2	20.1	14.6	12.8	12.8
72.5°	7635.5	1104.9	89.5	45.7	31.0	36.5	31.0	18.3	14.6	12.8	11.0
75°	4432.3	462.0	62.1	31.0	23.7	43.8	40.2	16.4	11.0	9.1	9.1
77.5°	1333.2	169.8	34.7	20.1	18.3	38.4	45.7	14.6	5.5	1.8	1.8
80°	242.9	73.0	21.9	12.8	12.8	23.7	34.7	7.3	0.0	0.0	0.0
82.5°	85.8	36.5	12.8	7.3	5.5	11.0	16.4	0.0	0.0	0.0	0.0
85°	49.3	25.6	7.3	3.7	0.0	1.8	3.7	0.0	0.0	0.0	0.0
87.5°	32.9	7.3	0.0	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)