

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: P321691

Luminaire Tested: **GAN-SA7C-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321691
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-SA7C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 38478 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

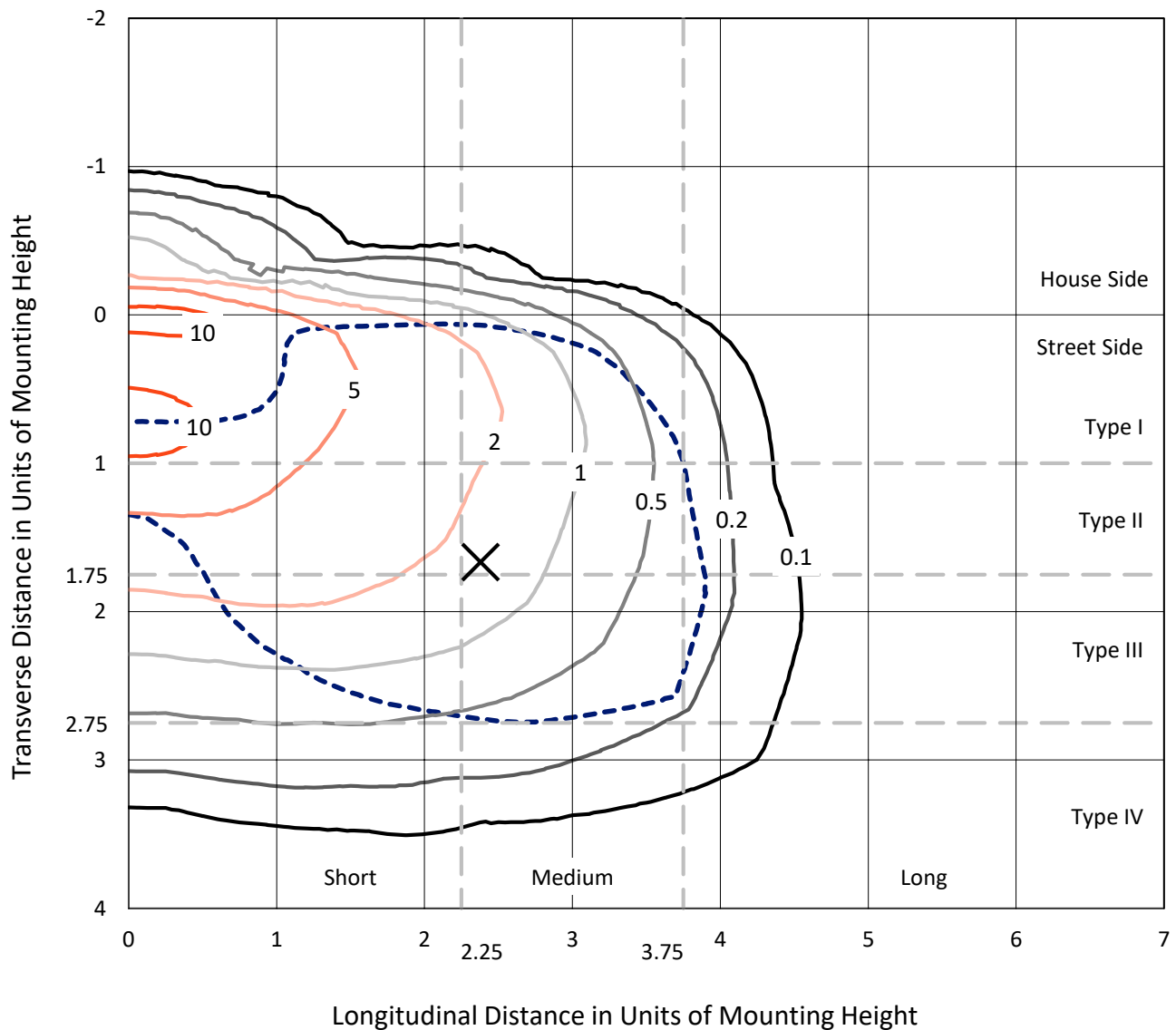
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

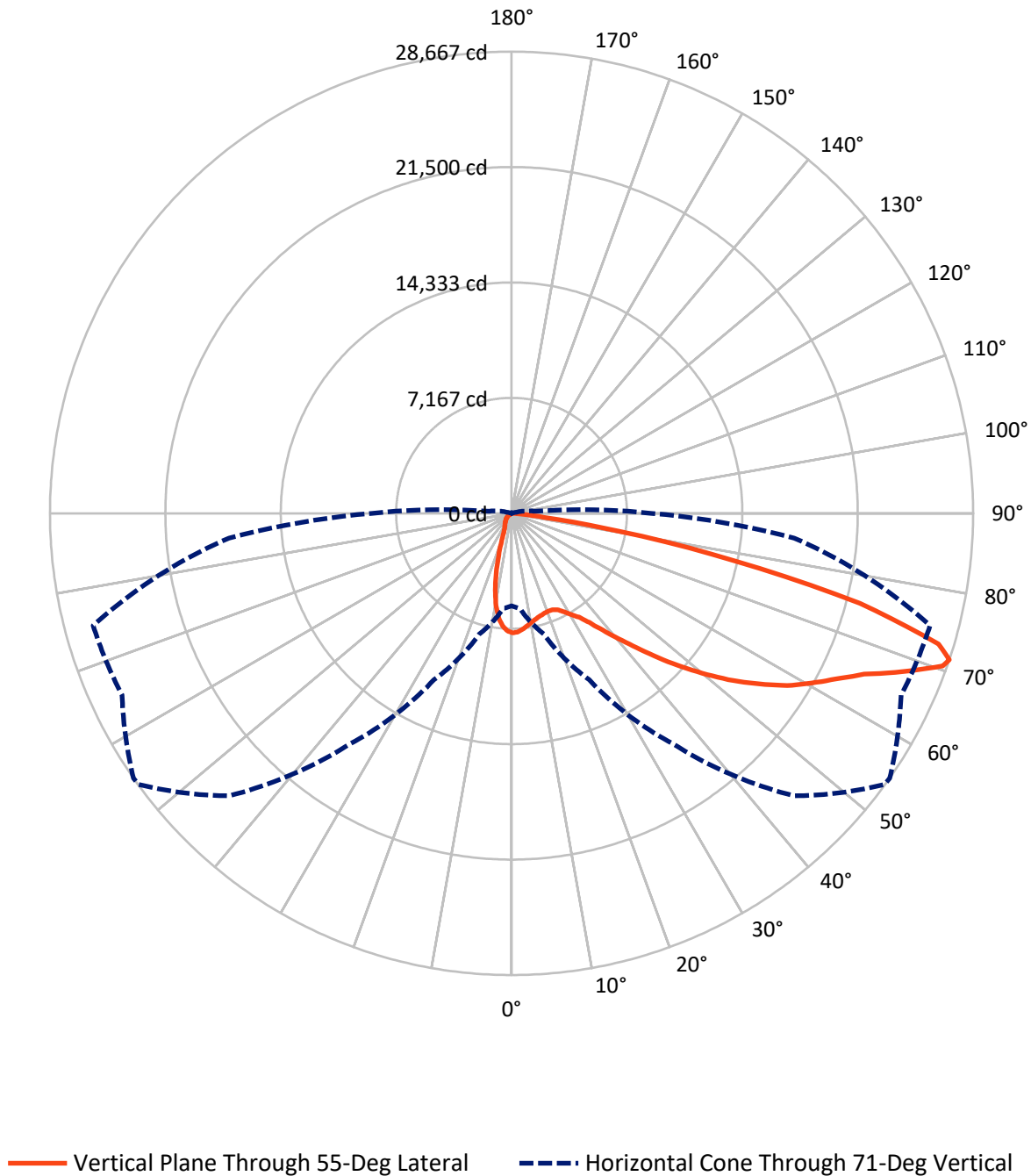
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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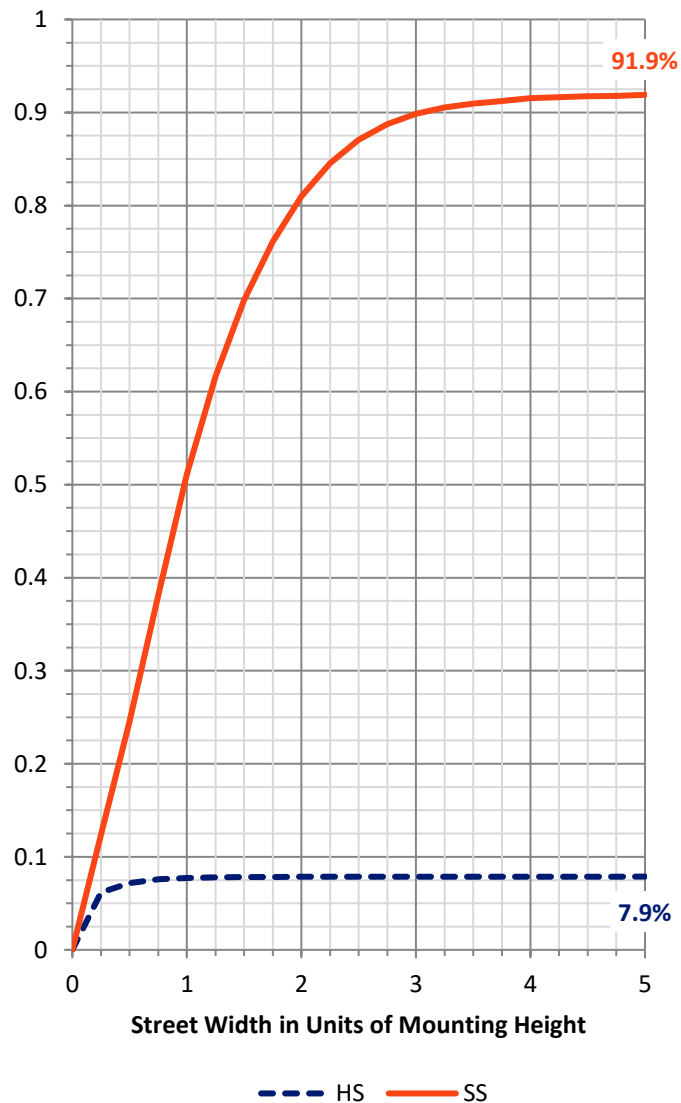
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.4	0.0	3046.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	35431.6	0.0	35431.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	38478.0	0.0	38478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.7	1.6
10°-20°	1428.4	3.7
20°-30°	2295.5	6.0
30°-40°	3900.1	10.1
40°-50°	6053.5	15.7
50°-60°	8138.7	21.2
60°-70°	9956.3	25.9
70°-80°	5821.2	15.1
80°-90°	251.6	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°	38478.0	100.0
0°-180°	38478.0	100.0

Coefficient of Utilization



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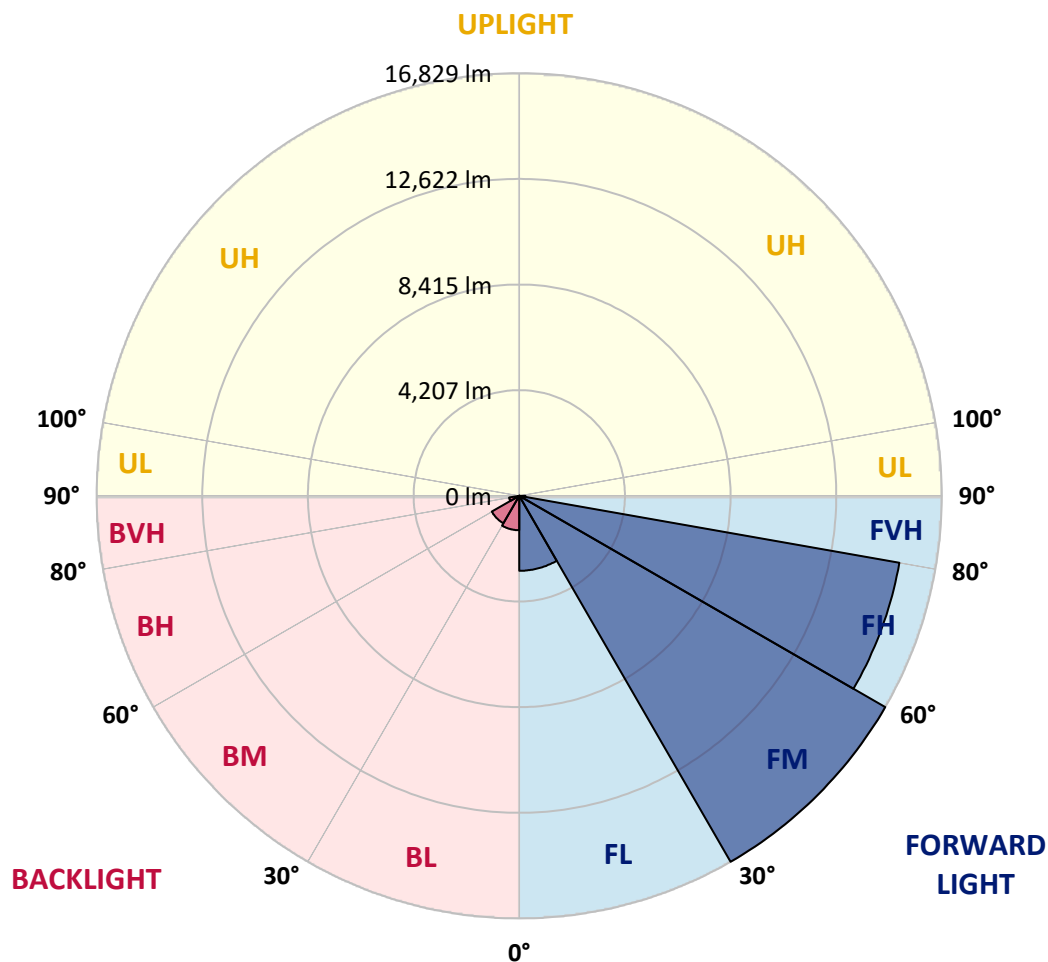
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2985.4	7.8			
FM	(30°-60°)	16829.2	43.7			
FH	(60°-80°)	15369.4	39.9			G5
FVH	(80°-90°)	247.7	0.6			G3/500
BL	(0°-30°)	1371.2	3.6	B3/2500		
BM	(30°-60°)	1263.1	3.3	B2/2500		
BH	(60°-80°)	408.1	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6
2.5°	7202.9	7211.6	7242.7	7256.5	7289.3	7344.6	7372.2	7374.0	7418.9	7436.2	7450.0
5°	6693.2	6745.1	6796.9	6852.2	6952.4	7085.4	7216.7	7228.8	7374.0	7481.1	7538.1
7.5°	6254.4	6301.0	6363.2	6451.4	6593.0	6802.1	7021.5	7047.4	7322.1	7565.8	7693.6
10°	5803.5	5841.5	5931.3	6060.9	6256.1	6536.0	6831.5	6874.7	7275.5	7679.8	7904.4
12.5°	5321.4	5343.9	5452.7	5639.3	5926.1	6282.0	6670.8	6727.8	7246.1	7811.1	8153.2
15°	4955.1	4965.5	5069.2	5262.7	5590.9	6054.0	6546.4	6615.5	7253.0	7968.3	8424.4
17.5°	4861.8	4867.0	4922.3	5055.4	5345.6	5850.1	6447.9	6532.6	7273.8	8122.1	8697.4
20°	5240.2	5203.9	5146.9	5126.2	5250.6	5727.4	6389.2	6484.2	7301.4	8258.6	8942.8
22.5°	6278.6	6171.5	5934.8	5618.6	5426.8	5736.1	6404.7	6499.7	7389.5	8426.2	9226.1
25°	7819.7	7671.1	7268.6	6646.6	6048.8	5984.9	6534.3	6631.0	7560.6	8626.6	9497.4
27.5°	9573.4	9426.5	8934.1	8046.1	7026.7	6477.3	6831.5	6921.3	7814.5	8804.5	9704.7
30°	11252.7	11211.3	10630.8	9621.8	8256.8	7275.5	7215.0	7291.0	8002.9	8911.7	9868.8
32.5°	12676.4	12610.7	12144.2	11162.9	9664.9	8234.4	7666.0	7688.4	8144.5	9049.9	10083.1
35°	13996.4	13915.2	13505.7	12577.9	11109.3	9405.8	8360.5	8327.7	8453.8	9328.0	10394.1
37.5°	15148.8	15223.1	14768.7	13885.8	12405.1	10623.8	9296.9	9198.5	8937.6	9780.7	10845.0
40°	16112.9	16112.9	15876.2	15140.1	13804.6	11883.4	10356.0	10226.5	9664.9	10478.7	11416.9
42.5°	16460.1	16534.4	16622.5	16206.2	15057.2	13193.0	11536.1	11401.3	10689.5	11468.7	12139.1
45°	16480.9	16598.3	17049.3	17047.6	16188.9	14494.0	12866.4	12802.5	12002.6	12740.3	13034.0
47.5°	16188.9	16335.7	17078.7	17500.2	17085.6	15705.1	14321.2	14241.7	13545.4	14298.7	13970.5
50°	15737.9	15900.3	16764.2	17678.2	17695.5	16759.0	15853.7	15734.5	15243.8	16080.0	14938.0
52.5°	14931.1	15245.5	16482.6	17719.6	18096.3	17669.5	17311.9	17260.1	17144.3	17795.7	15708.6
55°	13205.1	13554.1	15775.9	17733.5	18467.8	18476.4	18678.5	18692.4	18925.6	19399.0	16282.2
57.5°	12389.6	12586.5	14542.3	17799.1	19018.9	19392.1	20071.1	20178.2	20539.3	20921.1	16937.0
60°	11876.4	12109.7	13934.2	17709.3	19884.5	20592.9	21361.7	21398.0	21785.0	22491.6	17823.3
62.5°	11467.0	11696.8	13550.6	17363.7	20857.2	22037.3	22623.0	22626.4	22916.7	24362.8	18830.6
65°	10456.3	10649.8	12774.9	16975.0	21499.9	23466.1	24088.1	24065.6	24302.3	26335.9	20000.3
67.5°	8994.6	9143.2	11190.5	15501.2	21258.0	24765.3	26299.6	26225.3	25938.5	28041.1	20459.8
70°	6954.1	7007.7	8820.1	12918.3	18991.3	25264.7	28436.8	28398.8	26942.3	27735.3	18775.3
71°	5748.2	5924.4	7773.1	11401.3	17472.6	24803.4	28644.1	28666.6	26690.0	26902.6	17616.0
72.5°	3338.0	3488.3	5634.1	8756.2	14834.3	22878.7	27569.5	27731.9	25511.7	24469.9	15046.8
75°	715.3	765.4	2088.8	4238.1	8160.1	16035.1	21760.8	22339.6	20793.3	16646.7	9068.9
77.5°	497.6	537.3	895.0	1923.0	2697.0	7923.4	13517.8	14170.9	12422.4	6256.1	2902.6
80°	393.9	438.8	698.0	950.3	729.1	2555.3	6332.1	6731.3	4143.1	1396.0	488.9
82.5°	219.4	260.9	544.2	513.1	279.9	485.5	1772.7	2004.2	829.3	281.6	115.8
85°	63.9	77.7	350.7	373.2	119.2	93.3	302.4	374.9	157.2	74.3	51.8
87.5°	0.0	0.0	169.3	143.4	34.6	13.8	27.6	31.1	31.1	31.1	34.6
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°	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6	7420.6
2.5°	7450.0	7462.1	7418.9	7361.9	7301.4	7227.1	7149.4	7088.9	7087.2	7057.8	7028.4
5°	7541.6	7534.7	7415.4	7234.0	7019.8	6796.9	6584.4	6344.2	6264.8	6166.3	6133.5
7.5°	7710.9	7662.5	7410.3	7012.9	6542.9	6076.4	5594.4	5108.9	4901.6	4715.0	4682.2
10°	7923.4	7831.8	7377.4	6681.1	5819.0	4958.6	4231.2	3571.2	3281.0	3058.1	3047.7
12.5°	8144.5	8004.6	7285.9	6180.1	4870.5	3661.1	2823.1	2173.5	1931.6	1776.1	1789.9
15°	8376.1	8167.0	7088.9	5504.6	3790.6	2484.5	1734.6	1352.8	1256.1	1216.3	1226.7
17.5°	8612.8	8279.3	6814.2	4690.8	2724.6	1603.3	1200.8	1093.7	1093.7	1102.3	1105.8
20°	8818.4	8339.8	6409.9	3778.6	1846.9	1167.9	1050.5	1034.9	1043.6	1057.4	1059.1
22.5°	9022.2	8343.2	5882.9	2854.2	1292.3	1022.8	1000.4	993.4	998.6	1014.2	1015.9
25°	9188.1	8301.8	5222.9	2030.1	1031.5	964.1	953.7	950.3	953.7	972.7	972.7
27.5°	9255.5	8151.5	4417.8	1427.1	924.3	898.4	895.0	898.4	903.6	917.4	919.2
30°	9262.4	7888.8	3540.1	1033.2	838.0	810.3	817.2	829.3	824.1	820.7	824.1
32.5°	9279.7	7584.8	2684.9	850.0	765.4	722.2	713.6	713.6	692.8	680.7	673.8
35°	9336.7	7227.1	1947.2	763.7	691.1	641.0	608.2	570.2	530.4	509.7	504.5
37.5°	9426.5	6852.2	1394.3	706.6	625.4	568.4	506.2	438.8	381.8	366.3	366.3
40°	9590.7	6465.2	1031.5	661.7	573.6	502.8	409.5	321.4	269.5	260.9	260.9
42.5°	9849.8	6057.4	822.4	622.0	528.7	435.4	312.7	233.2	195.2	190.1	188.3
45°	10119.3	5608.2	718.7	584.0	480.3	357.6	231.5	172.8	150.3	145.1	145.1
47.5°	10388.9	5129.6	668.6	547.7	433.7	278.2	172.8	136.5	126.1	126.1	127.9
50°	10616.9	4630.3	632.4	508.0	373.2	210.8	136.5	115.8	112.3	119.2	120.9
52.5°	10673.9	4139.7	587.4	457.8	298.9	160.7	112.3	101.9	101.9	101.9	101.9
55°	10639.4	3759.6	528.7	395.7	221.2	127.9	96.8	89.8	88.1	88.1	88.1
57.5°	10756.9	3534.9	423.3	307.5	159.0	103.7	84.7	79.5	76.0	74.3	74.3
60°	10993.6	3388.1	302.4	221.2	119.2	86.4	72.6	67.4	62.2	58.7	58.7
62.5°	11308.0	3260.2	224.6	164.1	91.6	69.1	60.5	55.3	48.4	44.9	44.9
65°	11549.9	3032.2	171.0	122.7	69.1	55.3	46.6	44.9	34.6	31.1	29.4
67.5°	11180.2	2531.1	138.2	89.8	51.8	43.2	36.3	34.6	20.7	17.3	17.3
70°	9588.9	1762.3	110.6	65.7	38.0	34.6	29.4	22.5	15.5	13.8	13.8
71°	8695.7	1472.0	100.2	55.3	32.8	32.8	27.6	19.0	13.8	12.1	12.1
72.5°	7223.7	1045.3	84.7	43.2	29.4	34.6	29.4	17.3	13.8	12.1	10.4
75°	4193.2	437.1	58.7	29.4	22.5	41.5	38.0	15.5	10.4	8.6	8.6
77.5°	1261.2	160.7	32.8	19.0	17.3	36.3	43.2	13.8	5.2	1.7	1.7
80°	229.8	69.1	20.7	12.1	12.1	22.5	32.8	6.9	0.0	0.0	0.0
82.5°	81.2	34.6	12.1	6.9	5.2	10.4	15.5	0.0	0.0	0.0	0.0
85°	46.6	24.2	6.9	3.5	0.0	1.7	3.5	0.0	0.0	0.0	0.0
87.5°	31.1	6.9	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)