

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: P321704

Luminaire Tested: **GAN-SA0D-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321704
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-SA0D-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA 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: 59065 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

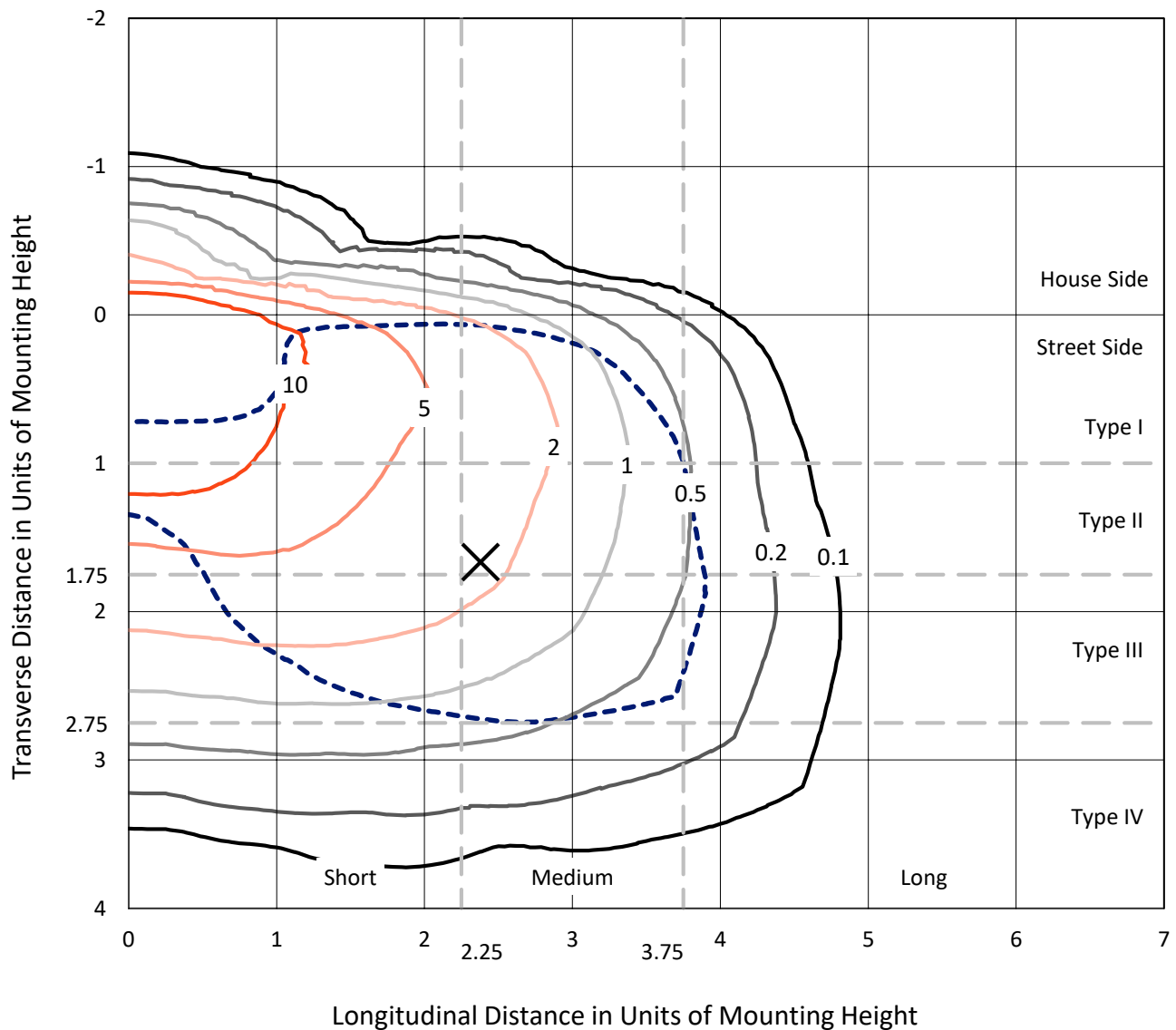
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

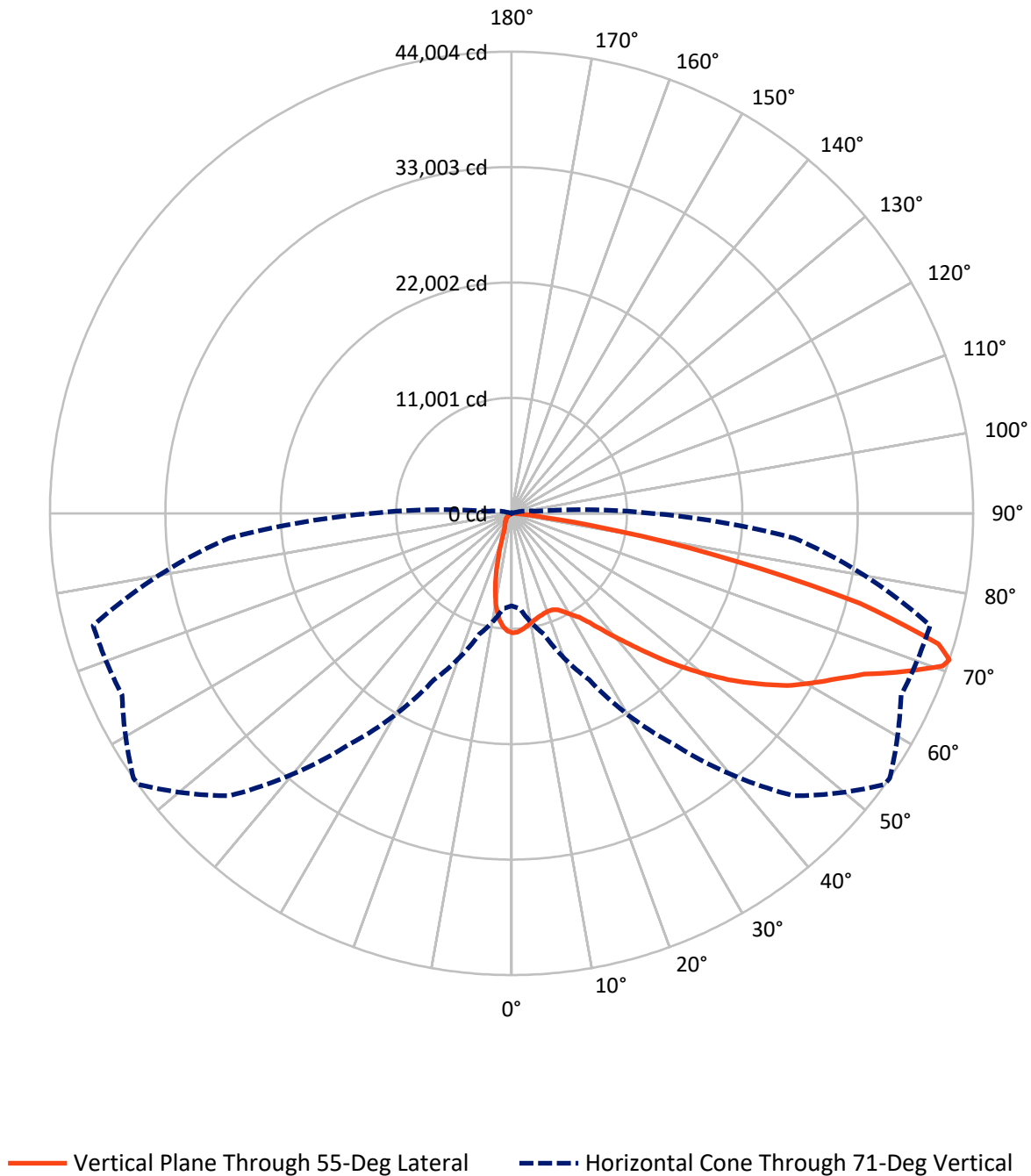
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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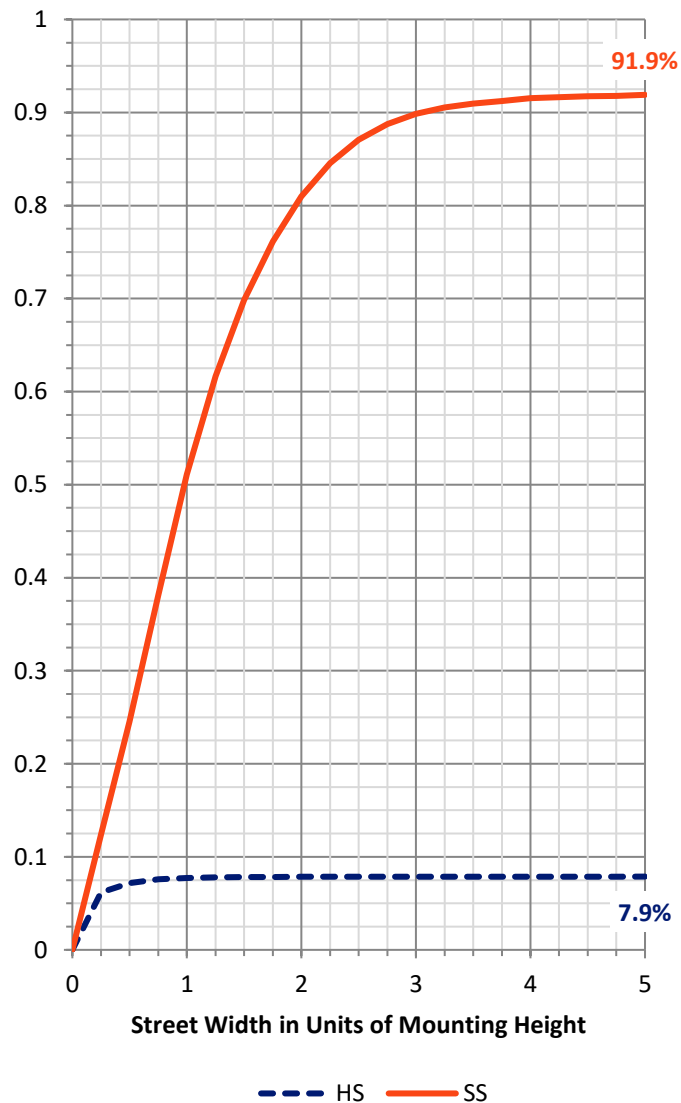
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4676.3	0.0	4676.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	54388.7	0.0	54388.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	59065.0	0.0	59065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.2	1.6
10°-20°	2192.6	3.7
20°-30°	3523.6	6.0
30°-40°	5986.8	10.1
40°-50°	9292.3	15.7
50°-60°	12493.2	21.2
60°-70°	15283.3	25.9
70°-80°	8935.8	15.1
80°-90°	386.3	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°	59065.0	100.0
0°-180°	59065.0	100.0

Coefficient of Utilization



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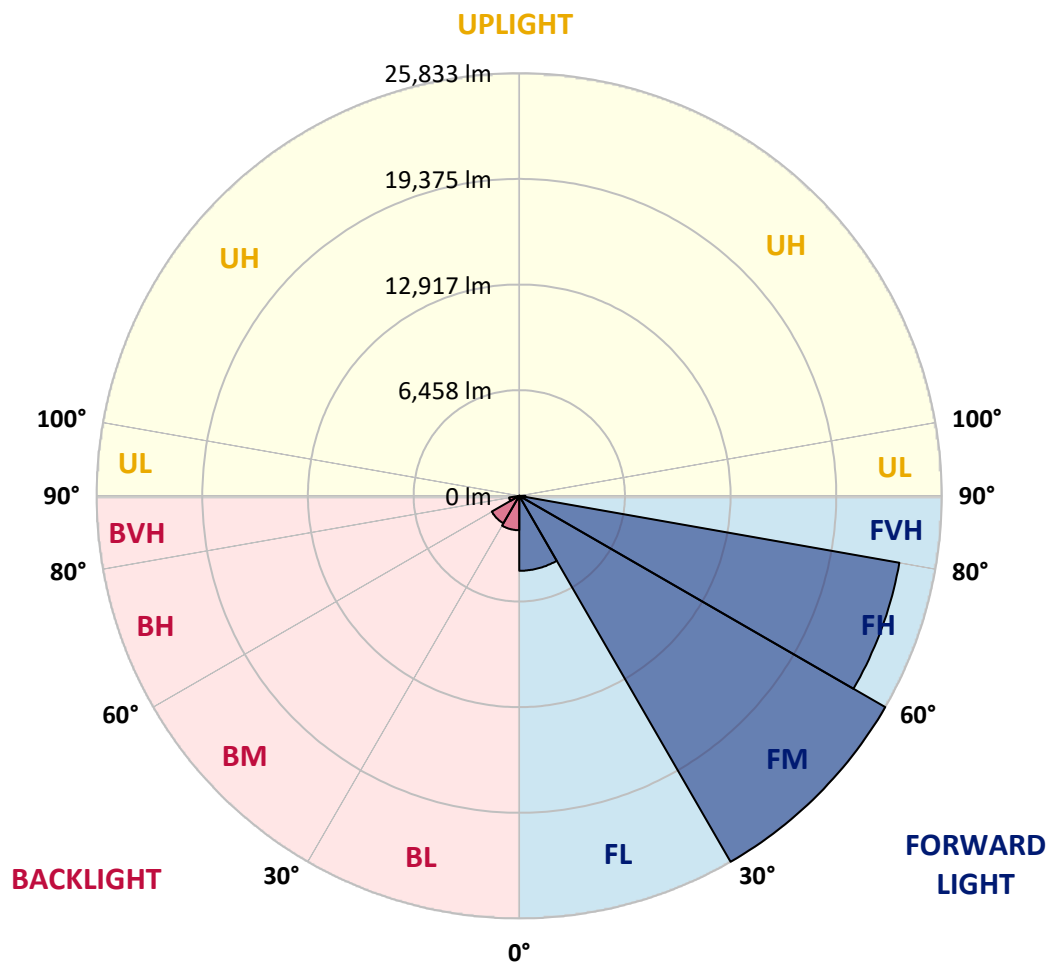
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4582.6	7.8			
FM	(30°-60°)	25833.3	43.7			
FH	(60°-80°)	23592.6	39.9			G5
FVH	(80°-90°)	380.2	0.6			G3/500
BL	(0°-30°)	2104.8	3.6	B3/2500		
BM	(30°-60°)	1938.9	3.3	B2/2500		
BH	(60°-80°)	626.5	1.1	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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°	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9
2.5°	11056.7	11070.0	11117.7	11138.9	11189.3	11274.2	11316.6	11319.3	11388.2	11414.8	11436.0
5°	10274.4	10353.9	10433.5	10518.3	10672.2	10876.4	11077.9	11096.5	11319.3	11483.7	11571.2
7.5°	9600.7	9672.3	9767.8	9903.1	10120.5	10441.4	10778.3	10818.0	11239.7	11613.7	11809.9
10°	8908.5	8966.9	9104.8	9303.7	9603.4	10033.0	10486.5	10552.8	11168.1	11788.7	12133.5
12.5°	8168.6	8203.0	8370.1	8656.6	9096.8	9643.1	10239.9	10327.4	11123.0	11990.3	12515.4
15°	7606.3	7622.2	7781.3	8078.4	8582.3	9293.1	10048.9	10155.0	11133.6	12231.6	12931.8
17.5°	7463.1	7471.0	7555.9	7760.1	8205.7	8980.1	9897.7	10027.7	11165.5	12467.7	13350.8
20°	8043.9	7988.2	7900.7	7868.9	8059.8	8791.8	9807.6	9953.4	11207.9	12677.2	13727.4
22.5°	9637.8	9473.4	9110.1	8624.7	8330.3	8805.1	9831.4	9977.3	11343.2	12934.4	14162.4
25°	12003.5	11775.5	11157.5	10202.7	9285.1	9187.0	10030.4	10178.9	11605.7	13242.1	14578.8
27.5°	14695.5	14470.0	13714.2	12351.0	10786.2	9942.8	10486.5	10624.4	11995.6	13515.3	14897.0
30°	17273.3	17209.7	16318.6	14769.7	12674.5	11168.1	11075.3	11192.0	12284.7	13679.7	15149.0
32.5°	19458.7	19357.9	18641.8	17135.4	14836.0	12640.1	11767.5	11802.0	12502.1	13891.9	15477.8
35°	21484.9	21360.3	20731.7	19307.5	17053.2	14438.2	12833.7	12783.3	12976.9	14318.8	15955.2
37.5°	23253.9	23367.9	22670.4	21315.2	19042.3	16307.9	14271.1	14119.9	13719.5	15013.7	16647.4
40°	24733.8	24733.8	24370.4	23240.6	21190.5	18241.3	15896.9	15698.0	14836.0	16085.2	17525.3
42.5°	25266.8	25380.9	25516.1	24877.0	23113.3	20251.7	17708.3	17501.4	16408.7	17604.8	18633.9
45°	25298.7	25479.0	26171.2	26168.6	24850.5	22248.7	19750.4	19652.3	18424.3	19556.8	20007.7
47.5°	24850.5	25075.9	26216.3	26863.4	26226.9	24107.9	21983.5	21861.5	20792.7	21949.0	21445.1
50°	24158.2	24407.5	25733.6	27136.6	27163.1	25725.7	24335.9	24152.9	23399.7	24683.4	22930.3
52.5°	22919.7	23402.4	25301.3	27200.2	27778.4	27123.3	26574.3	26494.8	26317.1	27316.9	24113.2
55°	20270.2	20806.0	24216.6	27221.5	28348.6	28361.9	28672.2	28693.4	29051.4	29778.1	24993.7
57.5°	19018.4	19320.8	22323.0	27322.2	29194.6	29767.5	30809.8	30974.2	31528.5	32114.6	25998.8
60°	18230.7	18588.8	21389.4	27184.3	30523.4	31610.7	32790.9	32846.6	33440.7	34525.4	27359.4
62.5°	17602.2	17954.9	20800.7	26653.9	32016.5	33827.9	34727.0	34732.3	35177.8	37397.7	28905.6
65°	16050.7	16347.7	19609.8	26057.2	33003.1	36021.2	36976.0	36941.5	37304.9	40426.4	30701.1
67.5°	13807.0	14035.1	17177.8	23794.9	32631.8	38015.6	40370.7	40256.7	39816.4	43044.1	31406.5
70°	10674.8	10757.0	13539.1	19830.0	29152.2	38782.1	43651.4	43593.1	41357.3	42574.6	28820.7
71°	8823.6	9094.2	11931.9	17501.4	26821.0	38074.0	43969.7	44004.1	40970.1	41296.3	27041.1
72.5°	5123.9	5354.6	8648.6	13441.0	22771.2	35119.5	42320.0	42569.3	39161.3	37562.1	23097.4
75°	1098.0	1174.9	3206.4	6505.7	12526.0	24614.4	33403.6	34292.0	31918.4	25553.3	13921.0
77.5°	763.8	824.8	1373.8	2951.8	4140.0	12162.7	20750.3	21752.8	19068.8	9603.4	4455.6
80°	604.7	673.6	1071.5	1458.7	1119.2	3922.5	9720.1	10332.7	6359.8	2142.9	750.6
82.5°	336.8	400.5	835.4	787.7	429.6	745.2	2721.1	3076.5	1273.0	432.3	177.7
85°	98.1	119.3	538.4	572.9	183.0	143.2	464.1	575.5	241.3	114.0	79.6
87.5°	0.0	0.0	259.9	220.1	53.0	21.2	42.4	47.7	47.7	47.7	53.0
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°	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9	11390.9
2.5°	11436.0	11454.5	11388.2	11300.7	11207.9	11093.9	10974.5	10881.7	10879.0	10833.9	10788.9
5°	11576.5	11565.9	11382.9	11104.5	10775.6	10433.5	10107.3	9738.6	9616.6	9465.5	9415.1
7.5°	11836.5	11762.2	11375.0	10765.0	10043.6	9327.5	8587.6	7842.3	7524.1	7237.7	7187.3
10°	12162.7	12022.1	11324.6	10255.8	8932.4	7611.6	6495.1	5482.0	5036.4	4694.3	4678.4
12.5°	12502.1	12287.3	11184.0	9486.7	7476.4	5619.9	4333.6	3336.4	2965.1	2726.4	2747.6
15°	12857.5	12536.6	10881.7	8449.7	5818.8	3813.8	2662.7	2076.6	1928.1	1867.1	1883.0
17.5°	13220.9	12709.0	10460.0	7200.5	4182.4	2461.2	1843.2	1678.8	1678.8	1692.1	1697.4
20°	13536.5	12801.8	9839.4	5800.2	2835.1	1792.8	1612.5	1588.6	1601.9	1623.1	1625.8
22.5°	13849.4	12807.1	9030.5	4381.3	1983.8	1570.1	1535.6	1525.0	1532.9	1556.8	1559.5
25°	14104.0	12743.5	8017.4	3116.3	1583.3	1479.9	1464.0	1458.7	1464.0	1493.1	1493.1
27.5°	14207.5	12512.7	6781.5	2190.7	1418.9	1379.1	1373.8	1379.1	1387.1	1408.3	1410.9
30°	14218.1	12109.6	5434.2	1586.0	1286.3	1243.8	1254.5	1273.0	1265.1	1259.8	1265.1
32.5°	14244.6	11642.8	4121.4	1304.8	1174.9	1108.6	1095.3	1095.3	1063.5	1044.9	1034.3
35°	14332.1	11093.9	2989.0	1172.2	1060.9	983.9	933.5	875.2	814.2	782.4	774.4
37.5°	14470.0	10518.3	2140.3	1084.7	960.1	872.6	777.1	673.6	586.1	562.3	562.3
40°	14722.0	9924.3	1583.3	1015.8	880.5	771.8	628.6	493.3	413.7	400.5	400.5
42.5°	15119.8	9298.4	1262.4	954.8	811.6	668.3	480.0	358.0	299.7	291.7	289.1
45°	15533.5	8608.8	1103.3	896.4	737.3	549.0	355.4	265.2	230.7	222.8	222.8
47.5°	15947.3	7874.2	1026.4	840.7	665.7	427.0	265.2	209.5	193.6	193.6	196.3
50°	16297.3	7107.7	970.7	779.7	572.9	323.6	209.5	177.7	172.4	183.0	185.6
52.5°	16384.9	6354.5	901.7	702.8	458.8	246.6	172.4	156.5	156.5	156.5	156.5
55°	16331.8	5771.0	811.6	607.3	339.5	196.3	148.5	137.9	135.3	135.3	135.3
57.5°	16512.2	5426.3	649.8	472.1	244.0	159.1	130.0	122.0	116.7	114.0	114.0
60°	16875.5	5200.8	464.1	339.5	183.0	132.6	111.4	103.4	95.5	90.2	90.2
62.5°	17358.2	5004.6	344.8	252.0	140.6	106.1	92.8	84.9	74.3	69.0	69.0
65°	17729.5	4654.5	262.6	188.3	106.1	84.9	71.6	69.0	53.0	47.7	45.1
67.5°	17161.9	3885.4	212.2	137.9	79.6	66.3	55.7	53.0	31.8	26.5	26.5
70°	14719.3	2705.2	169.7	100.8	58.3	53.0	45.1	34.5	23.9	21.2	21.2
71°	13348.2	2259.6	153.8	84.9	50.4	50.4	42.4	29.2	21.2	18.6	18.6
72.5°	11088.6	1604.5	130.0	66.3	45.1	53.0	45.1	26.5	21.2	18.6	15.9
75°	6436.7	671.0	90.2	45.1	34.5	63.7	58.3	23.9	15.9	13.3	13.3
77.5°	1936.1	246.6	50.4	29.2	26.5	55.7	66.3	21.2	8.0	2.7	2.7
80°	352.7	106.1	31.8	18.6	18.6	34.5	50.4	10.6	0.0	0.0	0.0
82.5°	124.7	53.0	18.6	10.6	8.0	15.9	23.9	0.0	0.0	0.0	0.0
85°	71.6	37.1	10.6	5.3	0.0	2.7	5.3	0.0	0.0	0.0	0.0
87.5°	47.7	10.6	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)