

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: P322384

Luminaire Tested: **GAN-SA0D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41142 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
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

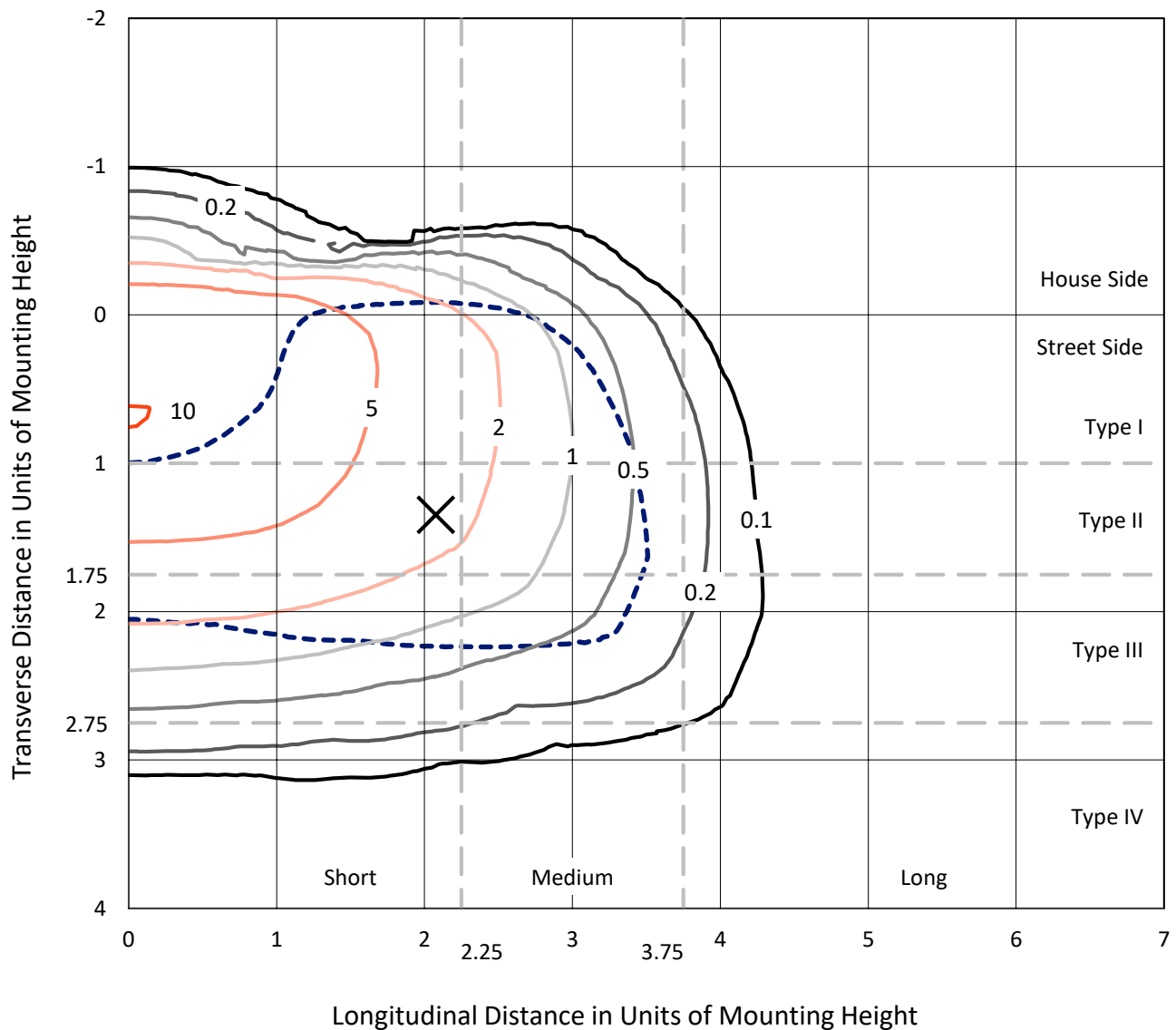


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Iso-Footcandle Lines of Horizontal Illumination

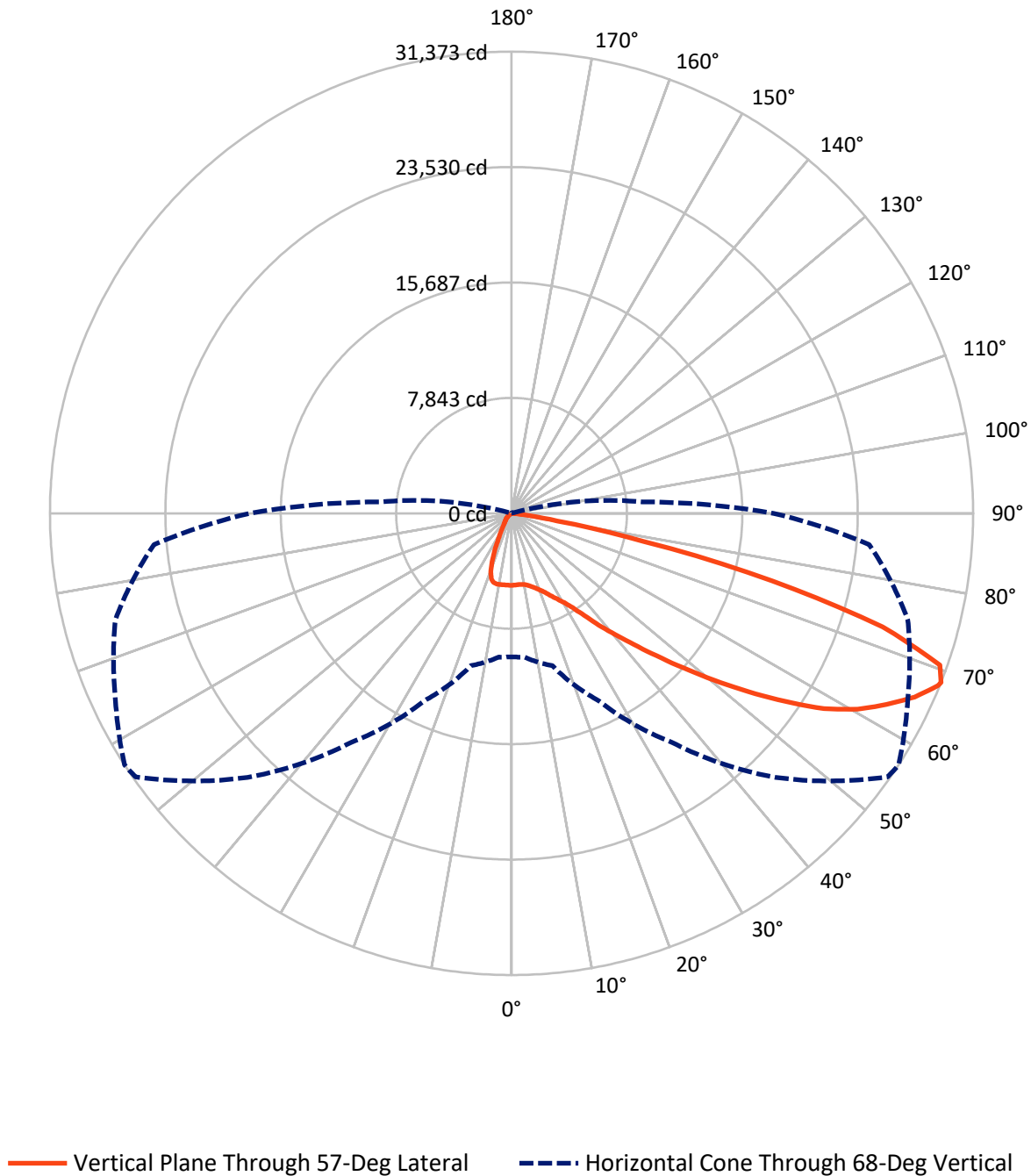
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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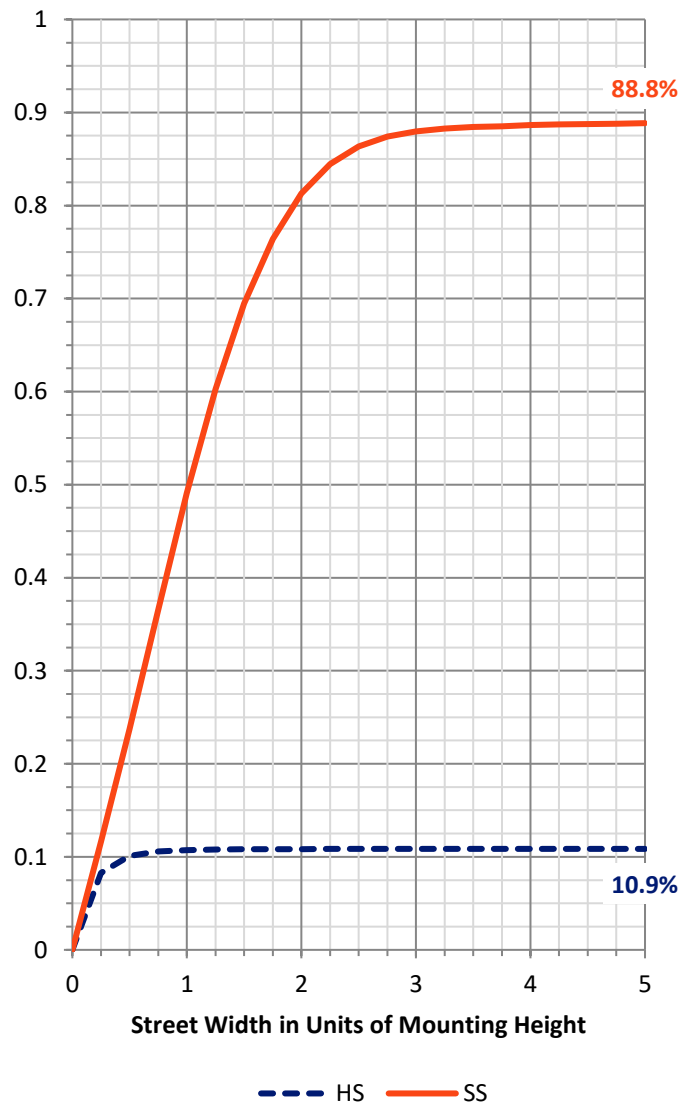
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4511.5	0.0	4511.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36630.5	0.0	36630.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	41142.0	0.0	41142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	1.1
10°-20°	1267.8	3.1
20°-30°	2187.1	5.3
30°-40°	3774.8	9.2
40°-50°	6456.9	15.7
50°-60°	10330.4	25.1
60°-70°	11935.7	29.0
70°-80°	4560.8	11.1
80°-90°	171.0	0.4
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°	41142.0	100.0
0°-180°	41142.0	100.0

Coefficient of Utilization



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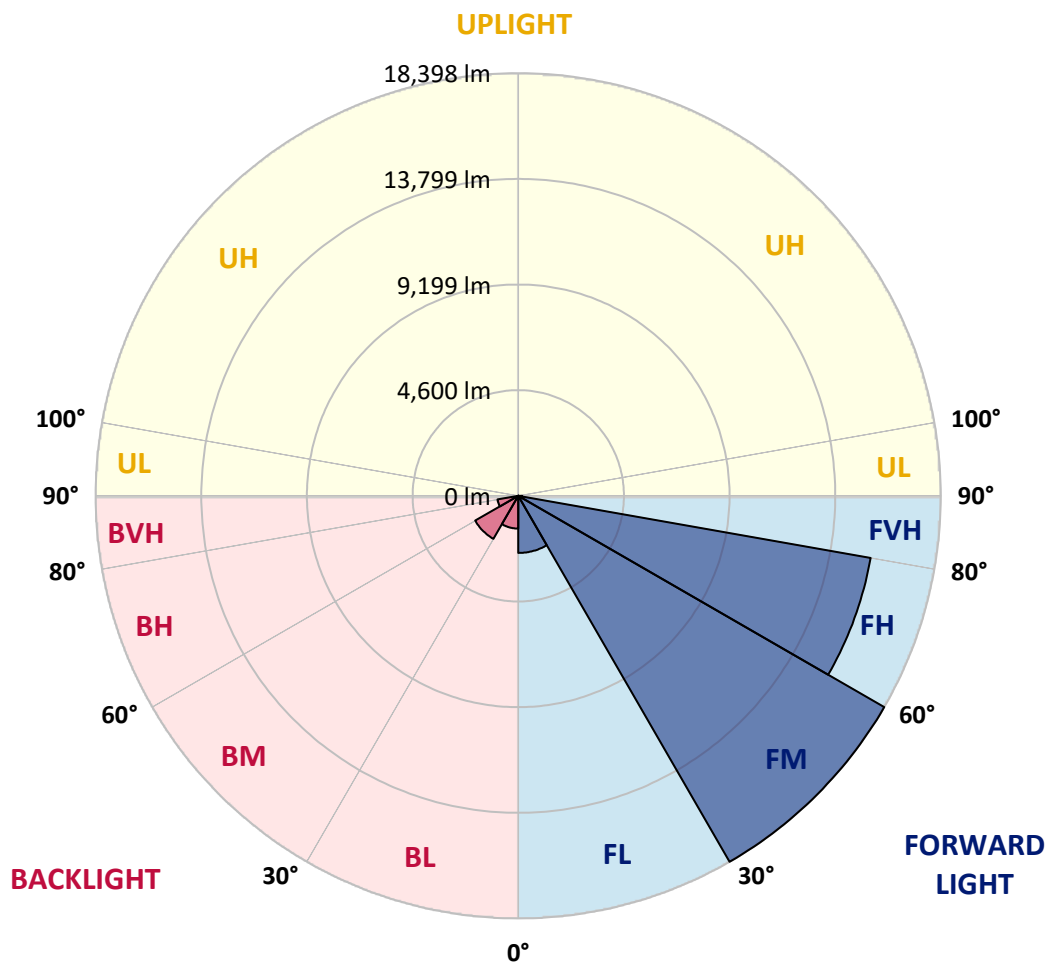
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2486.6	6.0			
FM	(30°-60°)	18398.4	44.7			
FH	(60°-80°)	15577.7	37.9			G5
FVH	(80°-90°)	167.8	0.4			G2/225
BL	(0°-30°)	1425.8	3.5	B3/2500		
BM	(30°-60°)	2163.8	5.3	B2/2500		
BH	(60°-80°)	918.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8
2.5°	4774.0	4795.4	4810.9	4820.7	4832.3	4857.6	4865.4	4877.1	4882.9	4882.9	4896.5
5°	4585.3	4608.6	4641.7	4668.9	4723.4	4793.4	4844.0	4863.5	4898.5	4929.6	4947.1
7.5°	4410.2	4437.4	4476.3	4540.5	4633.9	4746.7	4851.8	4879.0	4947.1	5013.3	5046.3
10°	4297.4	4318.8	4369.3	4460.8	4583.3	4740.9	4888.8	4921.8	5038.5	5149.4	5211.7
12.5°	4258.4	4277.9	4330.4	4433.5	4585.3	4770.1	4974.4	5023.0	5194.2	5355.6	5443.2
15°	4314.9	4318.8	4375.2	4472.4	4622.2	4842.1	5116.4	5174.7	5390.7	5600.8	5709.7
17.5°	4532.7	4515.2	4544.4	4587.2	4705.9	4937.4	5266.2	5353.7	5641.6	5888.7	5991.8
20°	5077.5	5077.5	5011.3	4894.6	4896.5	5085.2	5468.5	5567.7	5919.8	6205.8	6299.2
22.5°	6009.3	5991.8	5859.5	5573.5	5310.9	5340.1	5715.5	5843.9	6254.4	6559.8	6591.0
25°	7129.8	7108.4	6904.2	6501.5	6046.3	5752.5	6050.1	6198.0	6653.2	6923.6	6859.4
27.5°	8316.5	8299.0	8096.7	7596.7	6948.9	6410.0	6449.0	6589.0	7059.8	7326.3	7122.1
30°	9466.2	9472.1	9271.7	8758.1	8024.7	7248.5	6954.8	7036.5	7454.7	7725.1	7433.3
32.5°	10559.6	10567.3	10394.2	9820.3	9135.5	8223.1	7655.1	7633.7	7913.8	8180.3	7845.7
35°	11534.2	11553.6	11435.0	10989.5	10263.9	9308.7	8563.6	8513.0	8565.5	8867.1	8478.0
37.5°	12473.8	12485.5	12396.0	12020.5	11413.6	10501.2	9711.4	9639.4	9526.6	9758.1	9312.6
40°	13502.9	13473.7	13370.6	13030.2	12508.8	11818.2	10944.7	10820.2	10623.8	10830.0	10409.8
42.5°	14460.1	14427.0	14444.5	14059.3	13619.6	13172.2	12382.4	12168.4	12053.6	12290.9	11756.0
45°	15656.5	15639.0	15697.3	15362.7	15006.7	14681.8	14030.1	13796.7	13746.1	14024.3	13384.3
47.5°	16837.3	16880.1	17061.0	16919.0	16775.1	16489.1	15775.1	15670.1	15701.2	16037.8	15102.0
50°	17821.7	17872.3	18368.3	18531.7	18739.9	18572.6	17856.7	17792.5	17915.1	18218.5	16950.1
52.5°	18533.7	18636.8	19253.5	20006.3	20765.0	20877.9	20163.9	20105.6	20270.9	20317.6	18378.1
55°	19027.8	19119.3	19817.6	21195.0	22739.6	23226.0	22782.4	22556.7	22525.6	22064.6	19879.9
57.5°	19115.4	19105.6	20109.5	21963.4	24288.1	25542.9	25262.8	25041.0	24402.9	23679.2	21601.6
60°	18621.2	18677.6	19842.9	22229.9	25260.8	27295.7	27317.1	27029.2	26035.1	25249.2	23270.7
62.5°	17099.9	17329.5	18506.5	21531.5	25249.2	28001.9	28822.8	28603.0	27414.4	26535.1	24963.2
65°	14633.2	14714.9	15837.4	19138.7	23543.1	27706.2	30178.8	30097.1	28657.5	27784.0	25832.8
67.5°	10686.0	10509.0	11687.9	15070.9	19932.4	25982.6	31151.5	31254.6	29616.6	28040.8	24906.8
68°	9752.2	9804.7	10723.0	14065.1	18987.0	25373.7	31215.7	31373.2	29711.9	27873.5	24401.0
70°	5812.8	5914.0	6733.0	9684.1	14444.5	21928.4	30523.1	30883.0	29143.8	26147.9	21105.5
72.5°	1484.3	1604.9	2379.2	4334.3	8250.4	15450.3	25766.6	26375.5	25303.6	21212.5	14248.0
75°	610.9	642.0	850.1	1427.9	3073.7	6960.6	16983.2	18286.6	17541.5	12699.5	6439.2
77.5°	422.1	443.5	546.7	791.8	1330.6	2359.8	8326.3	9267.8	8349.6	4334.3	1404.6
80°	303.5	321.0	391.0	527.2	764.5	842.4	2713.8	3137.9	2492.0	951.3	348.2
82.5°	180.9	194.5	291.8	375.5	464.9	402.7	675.0	766.5	721.7	472.7	155.6
85°	89.5	105.1	196.5	268.5	251.0	169.2	206.2	229.6	284.0	287.9	83.7
87.5°	5.8	11.7	114.8	161.5	70.0	38.9	60.3	73.9	101.2	142.0	35.0
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°	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8	4888.8
2.5°	4902.4	4904.3	4890.7	4884.9	4888.8	4865.4	4855.7	4859.6	4859.6	4865.4	4855.7
5°	4951.0	4951.0	4927.7	4896.5	4879.0	4834.3	4805.1	4797.3	4791.5	4787.6	4779.8
7.5°	5056.1	5044.4	5003.5	4935.4	4877.1	4779.8	4705.9	4667.0	4647.5	4639.7	4633.9
10°	5225.3	5203.9	5135.8	5009.4	4875.1	4702.0	4540.5	4425.8	4330.4	4291.5	4268.2
12.5°	5452.9	5421.8	5307.0	5096.9	4861.5	4542.5	4192.3	3855.8	3542.5	3414.2	3350.0
15°	5715.5	5670.8	5489.9	5170.8	4781.8	4182.6	3421.9	2832.5	2398.7	2235.2	2165.2
17.5°	5982.1	5923.7	5649.4	5217.5	4542.5	3437.5	2400.6	1813.1	1523.2	1445.4	1418.2
20°	6250.5	6164.9	5787.5	5182.5	4001.7	2478.4	1583.5	1324.8	1241.2	1217.8	1210.0
22.5°	6505.4	6373.1	5912.0	5046.3	3169.0	1663.3	1252.8	1171.1	1143.9	1130.3	1126.4
25°	6727.1	6542.3	6021.0	4626.1	2243.0	1256.7	1128.3	1101.1	1066.1	1040.8	1042.7
27.5°	6935.3	6711.6	6087.1	3933.6	1496.0	1073.9	1044.7	1007.7	943.5	906.5	906.5
30°	7186.3	6937.2	6135.7	3027.0	1101.1	949.3	926.0	869.6	782.0	733.4	733.4
32.5°	7563.7	7279.6	6104.6	2124.4	912.4	834.6	780.1	702.3	607.0	560.3	558.3
35°	8141.4	7808.8	5882.8	1392.9	805.4	725.6	638.1	542.8	459.1	420.2	418.3
37.5°	8919.6	8516.9	5384.8	996.0	721.7	624.5	519.4	414.4	352.1	326.8	324.9
40°	9929.2	9339.8	4672.8	807.3	643.9	527.2	400.7	321.0	278.2	258.7	260.7
42.5°	11141.2	10221.1	3818.8	696.4	568.1	433.8	313.2	252.9	225.7	212.0	208.2
45°	12487.4	11090.6	2923.9	620.6	492.2	350.2	245.1	200.4	179.0	171.2	171.2
47.5°	13967.9	11936.9	2139.9	554.4	410.5	270.4	196.5	163.4	145.9	140.1	138.1
50°	15312.1	12524.4	1542.7	484.4	336.6	214.0	159.5	136.2	124.5	116.7	116.7
52.5°	16432.7	12709.2	1136.1	408.5	272.4	171.2	132.3	116.7	105.1	99.2	99.2
55°	17419.0	12633.3	844.3	336.6	219.8	140.1	112.8	99.2	89.5	83.7	83.7
57.5°	18364.4	12388.2	630.3	274.3	177.0	112.8	95.3	83.7	73.9	70.0	70.0
60°	19136.8	11979.7	468.8	221.8	142.0	91.4	79.8	68.1	60.3	54.5	54.5
62.5°	19763.2	11528.4	344.3	182.9	112.8	72.0	62.3	56.4	44.7	38.9	38.9
65°	19767.1	10779.4	258.7	151.7	87.5	56.4	46.7	44.7	29.2	23.3	21.4
67.5°	18337.2	9293.1	198.4	130.3	68.1	42.8	35.0	37.0	15.6	9.7	7.8
68°	17817.8	8915.7	186.8	128.4	64.2	40.9	33.1	37.0	13.6	7.8	5.8
70°	15022.3	7092.9	149.8	124.5	56.4	31.1	27.2	37.0	11.7	5.8	3.9
72.5°	9608.3	4116.4	110.9	99.2	42.8	23.3	17.5	33.1	11.7	3.9	1.9
75°	4089.2	1276.2	75.9	70.0	25.3	17.5	11.7	21.4	7.8	1.9	0.0
77.5°	861.8	287.9	44.7	42.8	17.5	11.7	7.8	5.8	1.9	0.0	0.0
80°	221.8	83.7	23.3	21.4	9.7	5.8	3.9	0.0	0.0	0.0	0.0
82.5°	70.0	33.1	13.6	9.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.0	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	5.8	1.9	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)