

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: P322174

Luminaire Tested: **GAN-SA0C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322174
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-SA0C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 42665 lumens
Efficiency: N/A
Efficacy: 76.5 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): 558
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

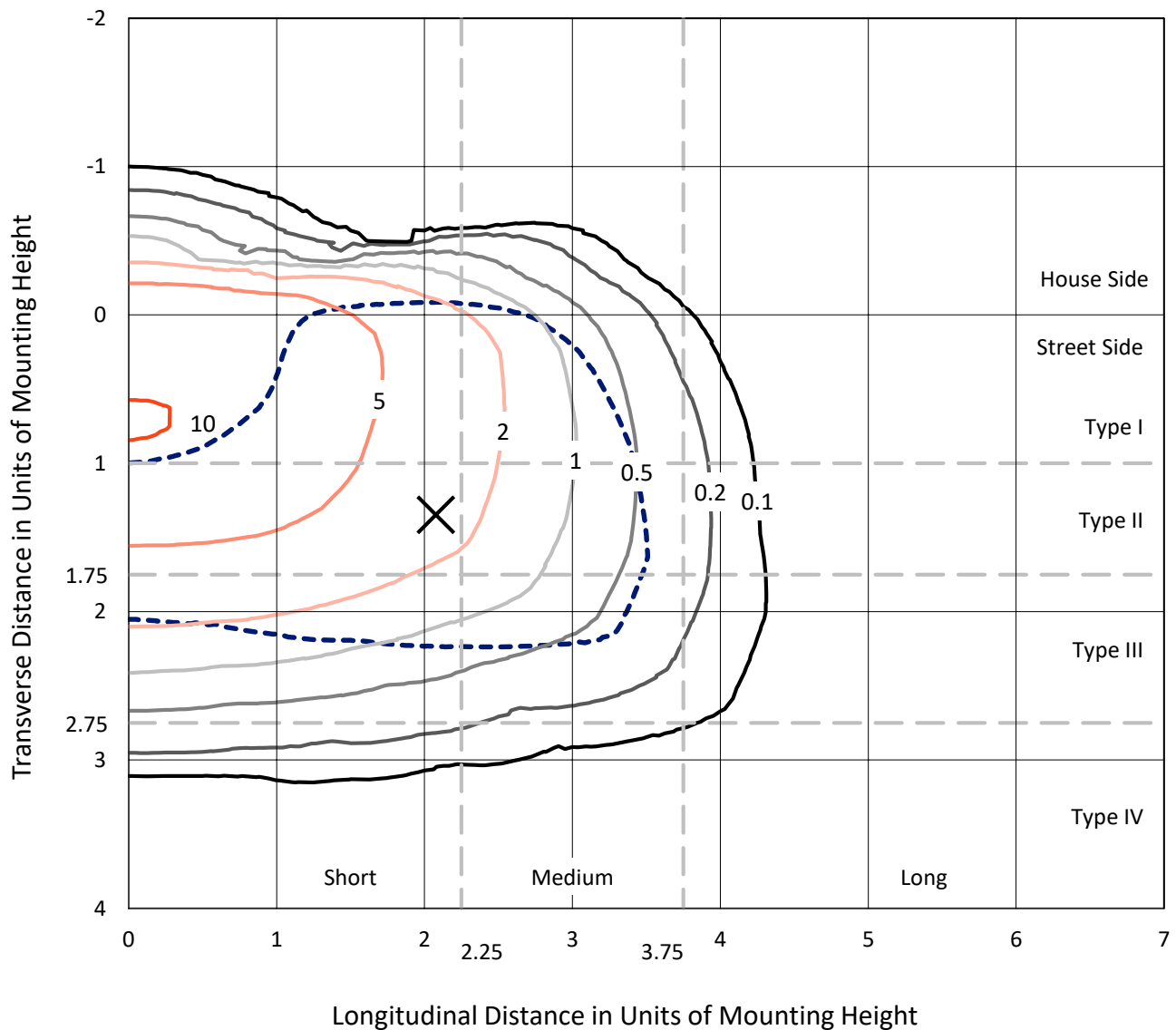


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Iso-Footcandle Lines of Horizontal Illumination

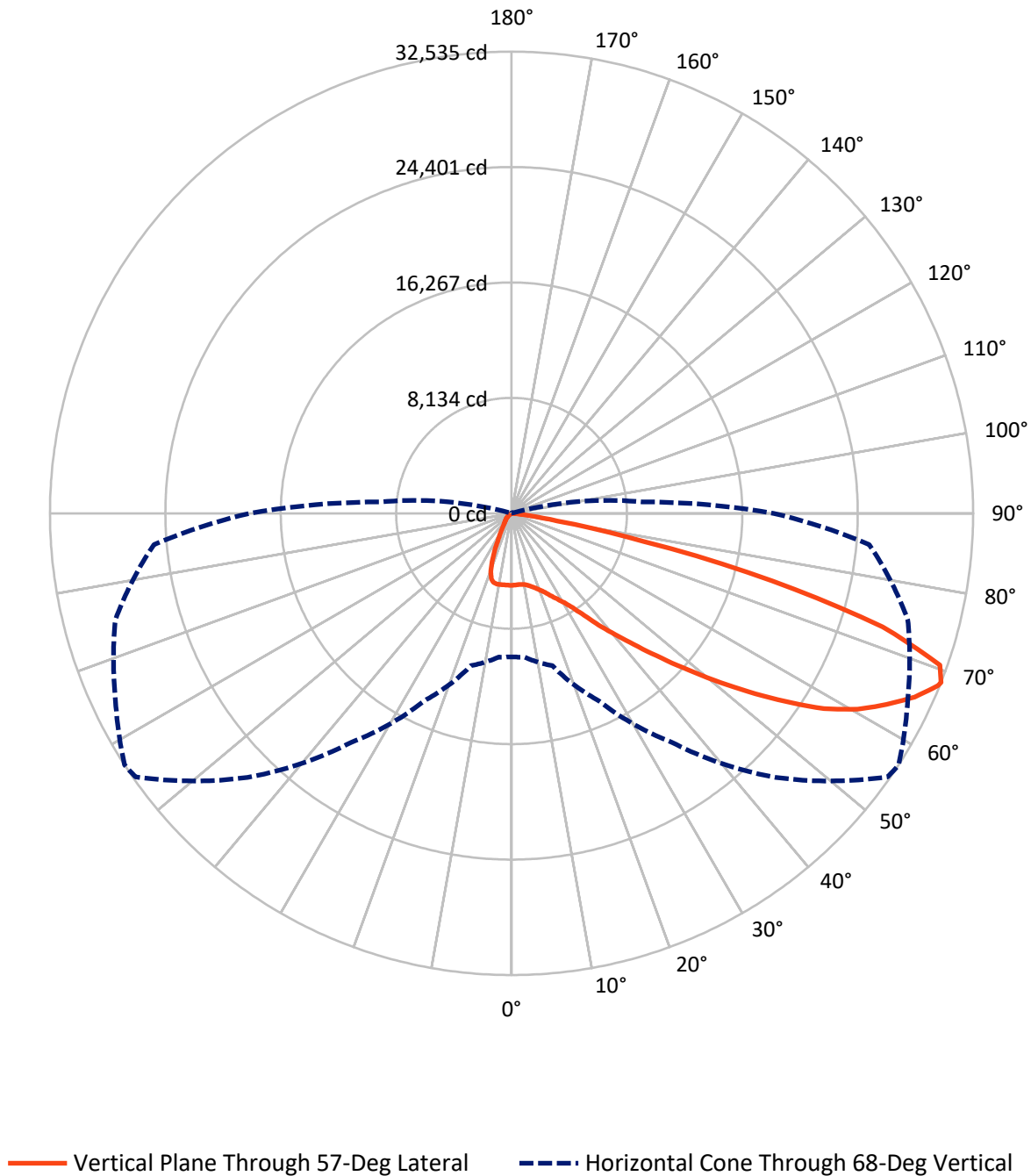
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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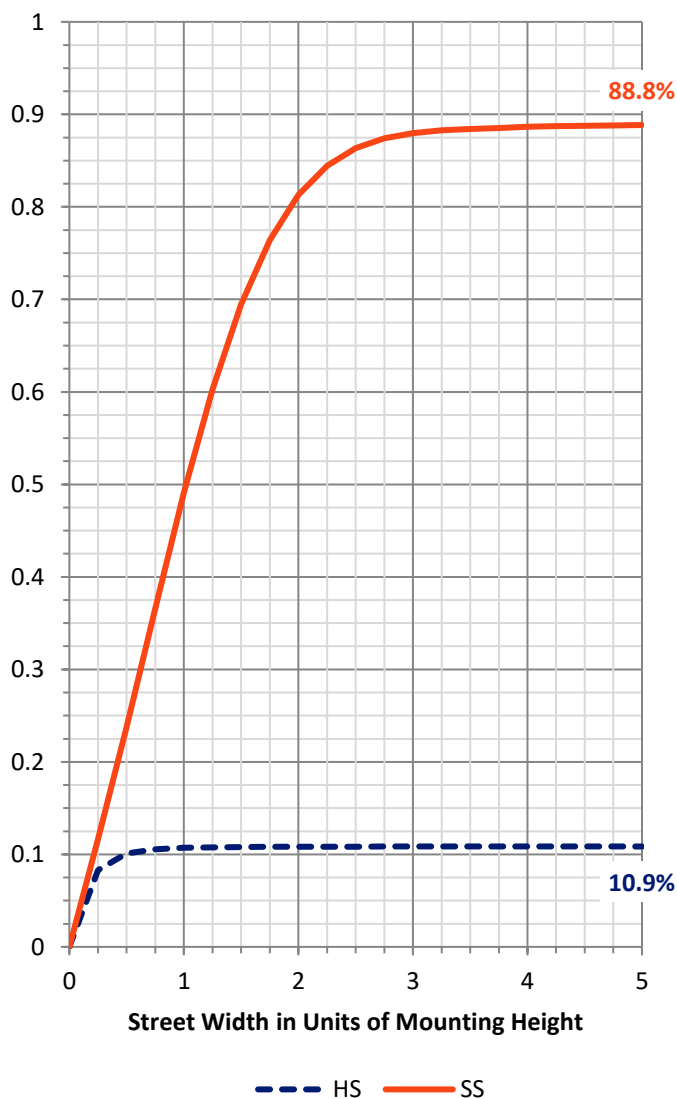
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4678.5	0.0	4678.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	37986.5	0.0	37986.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	42665.0	0.0	42665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.5	1.1
10°-20°	1314.7	3.1
20°-30°	2268.1	5.3
30°-40°	3914.6	9.2
40°-50°	6695.9	15.7
50°-60°	10712.8	25.1
60°-70°	12377.5	29.0
70°-80°	4729.6	11.1
80°-90°	177.3	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°	42665.0	100.0
0°-180°	42665.0	100.0

Coefficient of Utilization



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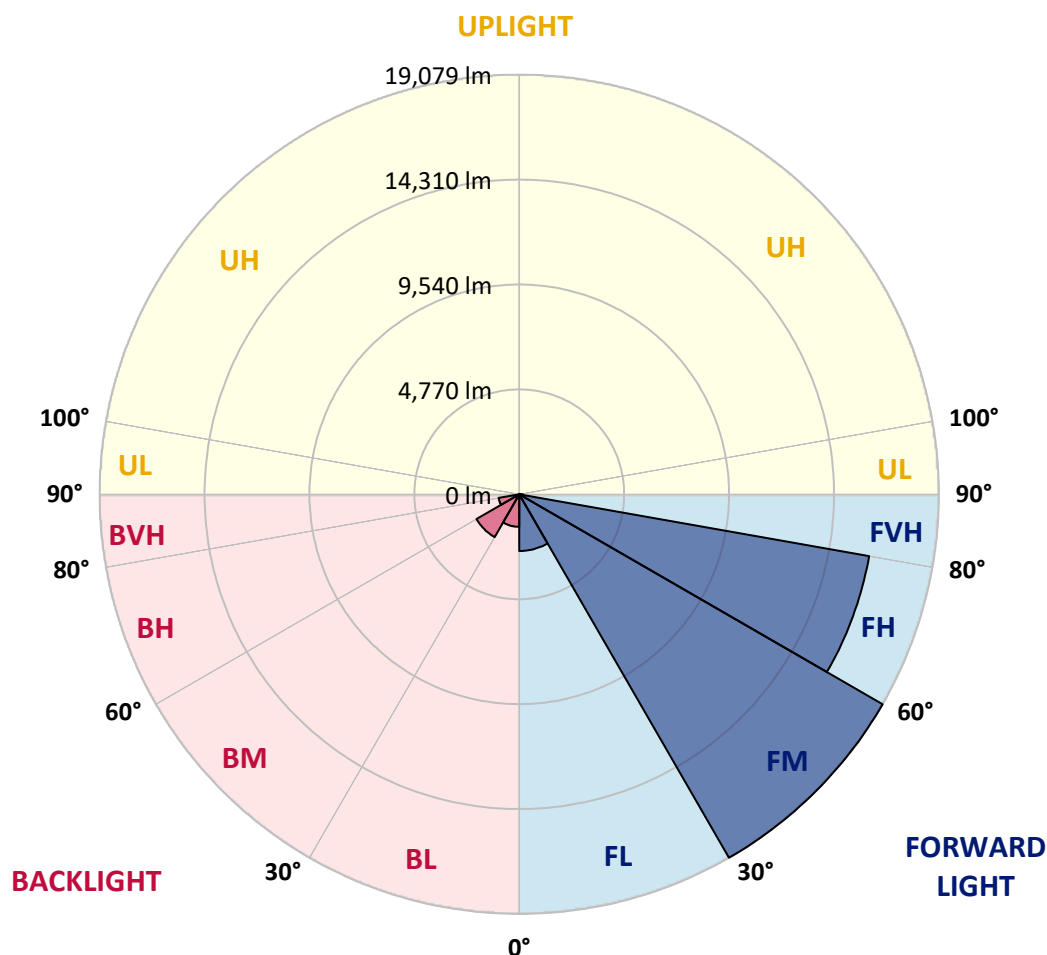
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2578.7	6.0			
FM	(30°-60°)	19079.4	44.7			
FH	(60°-80°)	16154.3	37.9			G5
FVH	(80°-90°)	174.1	0.4			G2/225
BL	(0°-30°)	1478.5	3.5	B3/2500		
BM	(30°-60°)	2243.9	5.3	B2/2500		
BH	(60°-80°)	952.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	4950.7	4972.9	4989.0	4999.1	5011.2	5037.4	5045.5	5057.6	5063.7	5063.7	5077.8
5°	4755.0	4779.2	4813.5	4841.8	4898.2	4970.9	5023.3	5043.5	5079.8	5112.1	5130.2
7.5°	4573.4	4601.7	4642.0	4708.6	4805.4	4922.5	5031.4	5059.6	5130.2	5198.8	5233.1
10°	4456.4	4478.6	4531.1	4625.9	4753.0	4916.4	5069.7	5104.0	5225.1	5340.1	5404.6
12.5°	4416.1	4436.3	4490.7	4597.7	4755.0	4946.7	5158.5	5208.9	5386.5	5553.9	5644.7
15°	4474.6	4478.6	4537.1	4638.0	4793.3	5021.3	5305.8	5366.3	5590.2	5808.1	5921.1
17.5°	4700.5	4682.4	4712.6	4757.0	4880.1	5120.2	5461.1	5551.9	5850.5	6106.7	6213.6
20°	5265.4	5265.4	5196.8	5075.8	5077.8	5273.5	5670.9	5773.8	6138.9	6435.5	6532.3
22.5°	6231.7	6213.6	6076.4	5779.9	5507.5	5537.8	5927.1	6060.3	6485.9	6802.7	6835.0
25°	7393.8	7371.6	7159.8	6742.2	6270.1	5965.5	6274.1	6427.4	6899.5	7179.9	7113.4
27.5°	8624.4	8606.2	8396.4	7877.9	7206.2	6647.3	6687.7	6832.9	7321.1	7597.5	7385.7
30°	9816.7	9822.7	9614.9	9082.3	8321.8	7516.8	7212.2	7296.9	7730.7	8011.1	7708.5
32.5°	10950.4	10958.5	10779.0	10183.8	9473.7	8527.6	7938.5	7916.3	8206.8	8483.2	8136.2
35°	11961.2	11981.3	11858.3	11396.3	10643.8	9653.3	8880.6	8828.1	8882.6	9195.3	8791.8
37.5°	12935.6	12947.7	12854.9	12465.5	11836.1	10889.9	10070.9	9996.2	9879.2	10119.3	9657.3
40°	14002.8	13972.5	13865.6	13512.5	12971.9	12255.7	11349.9	11220.8	11017.0	11230.9	10795.1
42.5°	14995.3	14961.0	14979.2	14579.8	14123.8	13659.8	12840.8	12618.8	12499.8	12745.9	12191.1
45°	16236.0	16217.9	16278.4	15931.4	15562.2	15225.3	14549.5	14307.4	14255.0	14543.4	13879.7
47.5°	17460.6	17505.0	17692.6	17545.3	17396.0	17099.5	16359.1	16250.2	16282.4	16631.4	15661.1
50°	18481.4	18533.9	19048.3	19217.8	19433.6	19260.1	18517.7	18451.1	18578.2	18893.0	17577.6
52.5°	19219.8	19326.7	19966.2	20746.9	21533.7	21650.7	20910.4	20849.8	21021.3	21069.7	19058.4
55°	19732.2	19827.0	20551.3	21979.6	23581.4	24085.7	23625.8	23391.8	23359.5	22881.4	20615.8
57.5°	19823.0	19812.9	20853.9	22776.4	25187.2	26488.5	26198.0	25968.0	25306.3	24555.8	22401.2
60°	19310.6	19369.1	20577.5	23052.8	26195.9	28306.1	28328.3	28029.8	26998.9	26183.8	24132.1
62.5°	17732.9	17971.0	19191.5	22328.6	26183.8	29038.5	29889.8	29661.8	28429.2	27517.3	25887.3
65°	15174.9	15259.6	16423.7	19847.2	24414.6	28731.8	31295.9	31211.2	29718.3	28812.5	26789.1
67.5°	11081.6	10898.0	12120.5	15628.8	20670.3	26944.4	32304.6	32411.6	30712.9	29078.8	25828.8
68°	10113.2	10167.7	11119.9	14585.8	19689.8	26313.0	32371.2	32534.6	30811.8	28905.3	25304.3
70°	6028.0	6132.9	6982.2	10042.6	14979.2	22740.1	31653.0	32026.2	30222.7	27115.9	21886.8
72.5°	1539.3	1664.4	2467.3	4494.8	8555.8	16022.2	26720.5	27351.9	26240.3	21997.7	14775.4
75°	633.5	665.7	881.6	1480.8	3187.5	7218.3	17611.9	18963.6	18190.9	13169.6	6677.6
77.5°	437.8	460.0	566.9	821.1	1379.9	2447.1	8634.5	9610.9	8658.7	4494.8	1456.6
80°	314.7	332.9	405.5	546.7	792.8	873.5	2814.3	3254.1	2584.3	986.5	361.1
82.5°	187.6	201.7	302.6	389.4	482.2	417.6	700.0	794.9	748.5	490.2	161.4
85°	92.8	108.9	203.8	278.4	260.2	175.5	213.8	238.1	294.5	298.6	86.7
87.5°	6.1	12.1	119.0	167.4	72.6	40.3	62.5	76.7	104.9	147.3	36.3
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°	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7	5069.7
2.5°	5083.8	5085.9	5071.7	5065.7	5069.7	5045.5	5035.4	5039.5	5039.5	5045.5	5035.4
5°	5134.3	5134.3	5110.1	5077.8	5059.6	5013.2	4983.0	4974.9	4968.9	4964.8	4956.8
7.5°	5243.2	5231.1	5188.8	5118.1	5057.6	4956.8	4880.1	4839.7	4819.6	4811.5	4805.4
10°	5418.7	5396.5	5325.9	5194.8	5055.6	4876.1	4708.6	4589.6	4490.7	4450.4	4426.2
12.5°	5654.8	5622.5	5503.5	5285.6	5041.5	4710.6	4347.5	3998.5	3673.7	3540.5	3474.0
15°	5927.1	5880.7	5693.1	5362.2	4958.8	4337.4	3548.6	2937.3	2487.5	2318.0	2245.4
17.5°	6203.5	6143.0	5858.5	5410.7	4710.6	3564.7	2489.5	1880.2	1579.6	1498.9	1470.7
20°	6481.9	6393.1	6001.8	5374.4	4149.8	2570.2	1642.2	1373.8	1287.1	1262.9	1254.8
22.5°	6746.2	6609.0	6130.9	5233.1	3286.3	1724.9	1299.2	1214.5	1186.2	1172.1	1168.1
25°	6976.2	6784.5	6243.9	4797.4	2326.1	1303.2	1170.1	1141.8	1105.5	1079.3	1081.3
27.5°	7192.0	6960.0	6312.4	4079.2	1551.4	1113.6	1083.3	1045.0	978.4	940.1	940.1
30°	7452.3	7194.0	6362.9	3139.1	1141.8	984.5	960.3	901.8	811.0	760.6	760.6
32.5°	7843.7	7549.1	6330.6	2203.0	946.2	865.5	809.0	728.3	629.4	581.0	579.0
35°	8442.8	8097.8	6100.6	1444.5	835.2	752.5	661.7	562.9	476.1	435.8	433.7
37.5°	9249.8	8832.2	5584.2	1032.9	748.5	647.6	538.6	429.7	365.1	338.9	336.9
40°	10296.8	9685.5	4845.8	837.2	667.8	546.7	415.6	332.9	288.5	268.3	270.3
42.5°	11553.7	10599.4	3960.2	722.2	589.1	449.9	324.8	262.3	234.0	219.9	215.9
45°	12949.7	11501.2	3032.2	643.6	510.4	363.1	254.2	207.8	185.6	177.5	177.5
47.5°	14484.9	12378.8	2219.1	575.0	425.7	280.4	203.8	169.5	151.3	145.3	143.2
50°	15879.0	12988.0	1599.8	502.3	349.0	221.9	165.4	141.2	129.1	121.0	121.0
52.5°	17041.0	13179.7	1178.2	423.7	282.4	177.5	137.2	121.0	108.9	102.9	102.9
55°	18063.8	13101.0	875.6	349.0	228.0	145.3	117.0	102.9	92.8	86.7	86.7
57.5°	19044.3	12846.8	653.6	284.5	183.6	117.0	98.9	86.7	76.7	72.6	72.6
60°	19845.2	12423.2	486.2	230.0	147.3	94.8	82.7	70.6	62.5	56.5	56.5
62.5°	20494.8	11955.1	357.1	189.6	117.0	74.6	64.6	58.5	46.4	40.3	40.3
65°	20498.8	11178.4	268.3	157.4	90.8	58.5	48.4	46.4	30.3	24.2	22.2
67.5°	19016.0	9637.1	205.8	135.2	70.6	44.4	36.3	38.3	16.1	10.1	8.1
68°	18477.4	9245.7	193.7	133.1	66.6	42.4	34.3	38.3	14.1	8.1	6.1
70°	15578.4	7355.4	155.3	129.1	58.5	32.3	28.2	38.3	12.1	6.1	4.0
72.5°	9963.9	4268.8	115.0	102.9	44.4	24.2	18.2	34.3	12.1	4.0	2.0
75°	4240.6	1323.4	78.7	72.6	26.2	18.2	12.1	22.2	8.1	2.0	0.0
77.5°	893.7	298.6	46.4	44.4	18.2	12.1	8.1	6.1	2.0	0.0	0.0
80°	230.0	86.7	24.2	22.2	10.1	6.1	4.0	0.0	0.0	0.0	0.0
82.5°	72.6	34.3	14.1	10.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	20.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	6.1	2.0	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)