

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: P319173

Luminaire Tested: **GAN-SA9C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46160 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

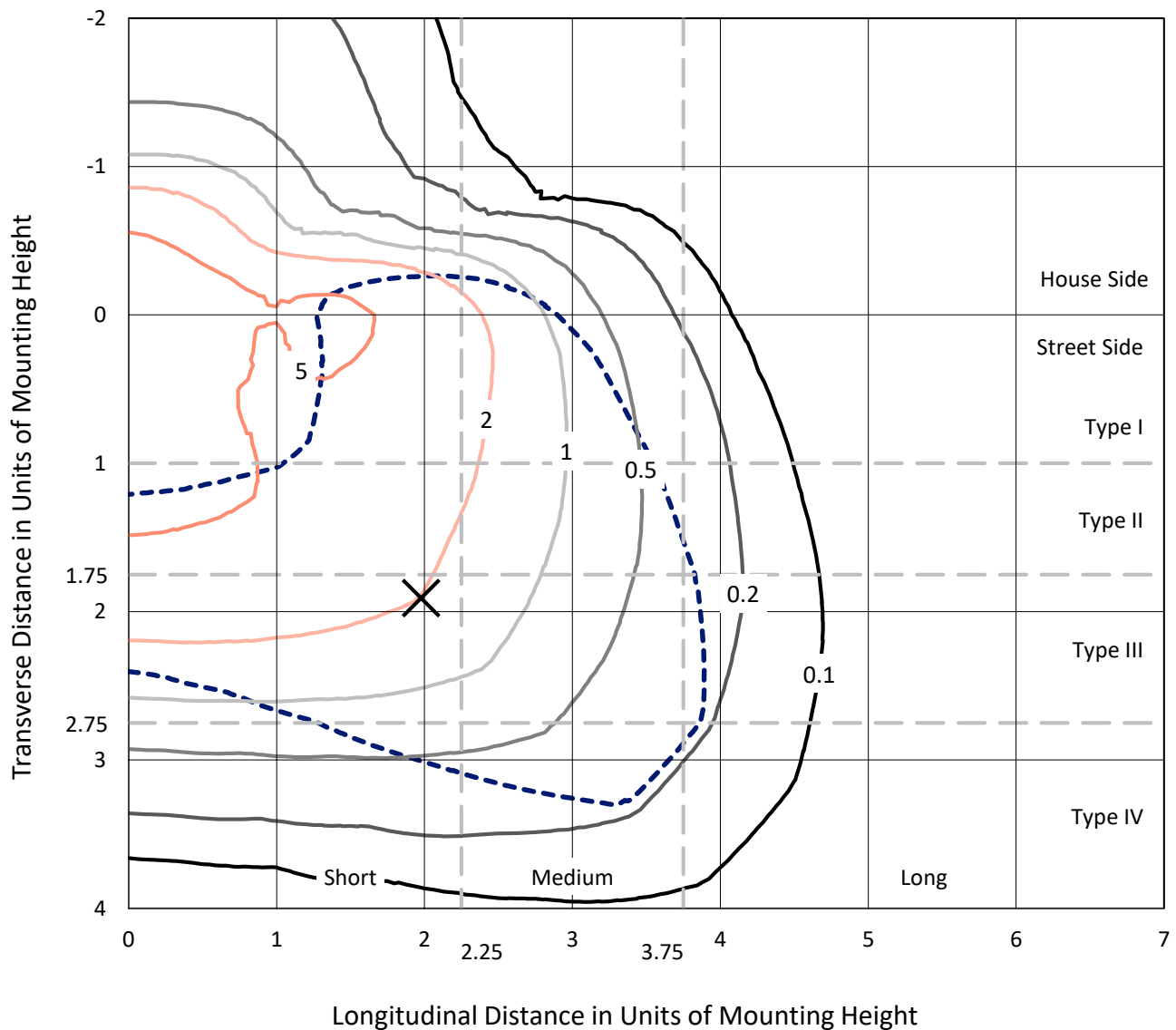
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

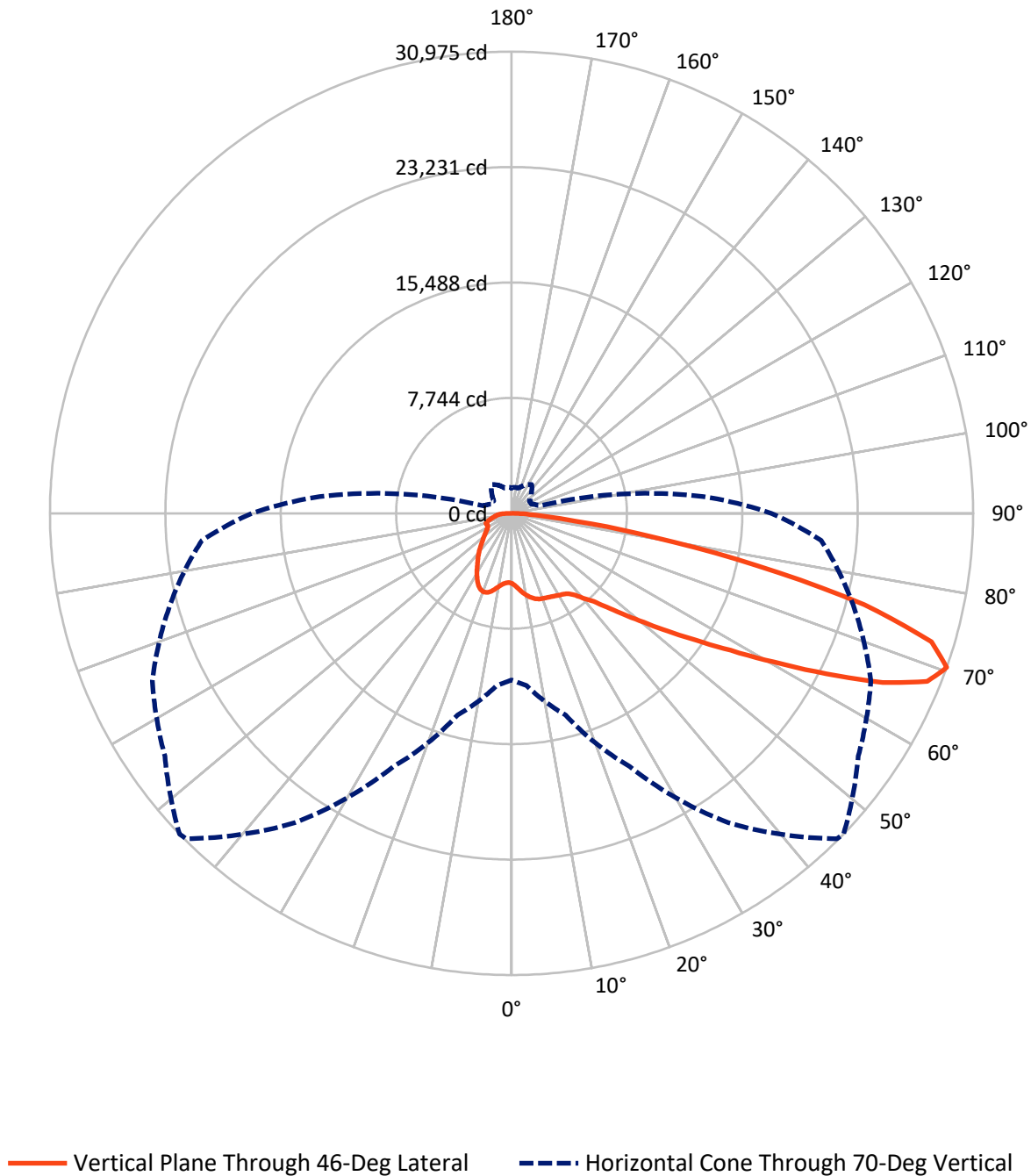
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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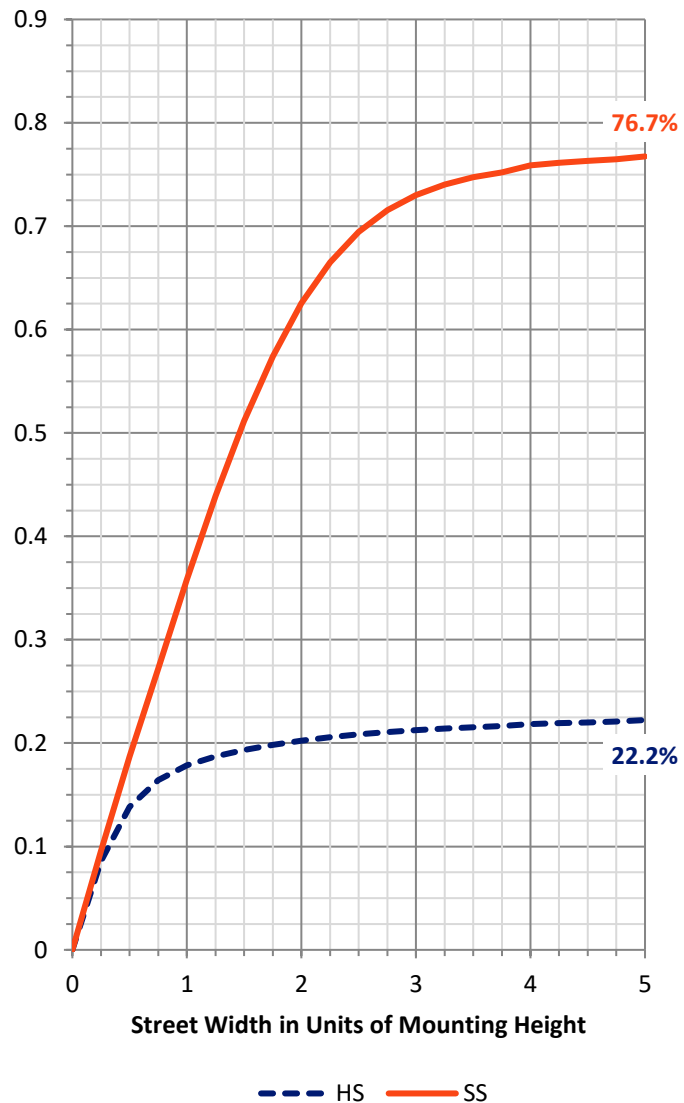
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10579.7	0.0	10579.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35580.3	0.0	35580.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	46160.0	0.0	46160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	1.0
10°-20°	1597.3	3.5
20°-30°	2663.3	5.8
30°-40°	3779.3	8.2
40°-50°	5559.2	12.0
50°-60°	9414.5	20.4
60°-70°	13363.7	29.0
70°-80°	8118.6	17.6
80°-90°	1184.8	2.6
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°	46160.0	100.0
0°-180°	46160.0	100.0

Coefficient of Utilization



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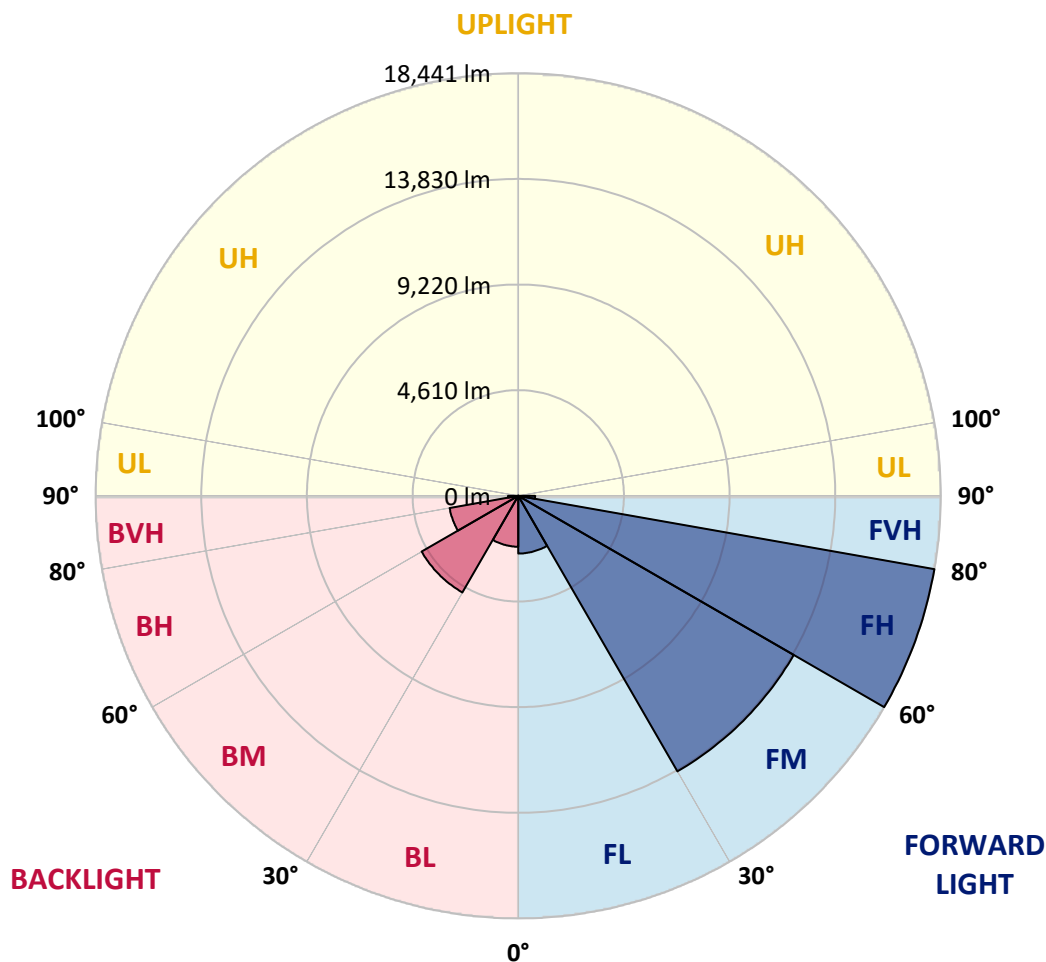
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2518.7	5.5			
FM	(30°-60°)	13882.9	30.1			
FH	(60°-80°)	18440.7	39.9			G5
FVH	(80°-90°)	738.0	1.6			G4/750
BL	(0°-30°)	2221.2	4.8	B3/2500		
BM	(30°-60°)	4870.1	10.6	B3/5000		
BH	(60°-80°)	3041.6	6.6	B4/5000		G4/5000
BVH	(80°-90°)	446.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8
2.5°	4938.2	4941.3	4947.7	4931.9	4887.6	4875.0	4870.2	4824.4	4794.4	4750.2	4712.3
5°	5333.1	5336.3	5326.8	5282.6	5184.6	5111.9	5105.6	5001.4	4906.6	4805.5	4729.7
7.5°	5745.4	5750.1	5720.1	5636.4	5499.0	5372.6	5364.7	5222.5	5078.8	4925.5	4811.8
10°	6110.3	6091.4	6042.4	5925.5	5762.8	5608.0	5601.7	5453.2	5287.3	5102.5	4950.8
12.5°	6353.6	6337.8	6274.6	6132.4	5953.9	5811.8	5799.1	5661.7	5500.6	5298.4	5116.7
15°	6487.9	6498.9	6413.6	6252.5	6078.7	5958.7	5947.6	5849.7	5705.9	5502.1	5293.6
17.5°	6505.3	6514.7	6432.6	6273.0	6130.9	6048.7	6044.0	5979.2	5874.9	5679.1	5461.1
20°	6404.1	6410.5	6342.5	6211.4	6118.2	6092.9	6091.4	6062.9	5985.5	5811.8	5600.1
22.5°	6257.2	6262.0	6213.0	6118.2	6086.6	6126.1	6137.2	6126.1	6070.8	5908.1	5709.1
25°	6220.9	6217.7	6167.2	6070.8	6097.7	6181.4	6195.6	6200.4	6162.5	6020.3	5848.1
27.5°	6396.3	6385.2	6288.8	6134.0	6151.4	6252.5	6271.5	6317.3	6293.6	6168.8	6006.1
30°	6903.3	6884.4	6686.9	6374.1	6288.8	6341.0	6364.7	6437.3	6442.1	6337.8	6216.2
32.5°	7759.5	7735.8	7382.0	6822.8	6521.0	6431.0	6453.1	6562.1	6620.6	6540.0	6408.9
35°	8841.6	8814.8	8350.4	7585.8	6909.7	6603.2	6619.0	6705.9	6822.8	6709.0	6535.3
37.5°	9969.6	9904.8	9457.7	8483.0	7527.3	6971.3	6971.3	6982.3	7037.6	6800.7	6683.8
40°	11091.2	11026.4	10622.0	9538.3	8326.7	7551.0	7514.7	7269.8	7225.6	7021.8	6982.3
42.5°	12133.8	12114.8	11876.3	10731.0	9265.0	8121.3	8070.7	7655.3	7664.8	7538.4	7540.0
45°	13242.7	13242.7	13048.4	11934.7	10358.2	9037.5	8987.0	8375.6	8470.4	8412.0	8552.6
47.5°	14147.9	14176.3	14149.5	13189.0	11629.8	10201.8	10110.2	9374.0	9639.4	9840.0	10249.2
50°	15072.0	15116.3	15121.0	14564.9	13166.9	11585.6	11481.3	10699.4	11291.8	11866.8	12670.9
52.5°	16413.2	16512.7	16116.2	15937.7	15049.9	13228.5	13125.8	12403.9	13392.8	14200.0	15585.4
55°	17656.4	17569.5	17286.8	17397.4	17065.6	15098.9	15021.5	14388.0	15733.9	16782.9	18582.1
57.5°	18329.4	18323.1	18607.4	19081.3	19239.3	17405.3	17340.5	16724.4	18373.6	19161.9	21395.6
60°	19119.2	19130.3	19834.9	20910.6	21561.5	20277.2	20248.7	19781.1	20937.5	21383.0	23602.5
62.5°	19229.8	19428.9	20642.1	22493.5	23735.2	23632.5	23695.7	22534.6	23231.2	23155.4	25250.1
65°	17958.2	18220.4	20416.2	22972.2	25896.2	27302.2	27360.6	25303.8	25040.0	24670.4	25839.3
67.5°	15351.6	15740.2	18125.6	21931.1	26608.7	30014.5	30096.7	27450.6	26540.7	25183.8	24420.8
70°	11171.7	11603.0	14004.1	18730.6	25338.6	30881.8	30975.0	28400.0	26597.6	23722.5	20847.4
72.5°	6748.5	7086.6	9066.0	13789.3	21386.1	29302.1	29467.9	27196.3	24283.3	20093.9	15394.3
75°	2963.5	3184.7	4383.7	7945.9	15310.6	24243.8	24450.8	23278.6	19730.6	14602.9	9099.1
77.5°	1262.2	1325.4	1797.7	3451.7	8655.2	16566.4	16850.8	17008.8	13386.5	7945.9	3845.0
80°	786.7	812.0	1017.3	1562.3	4050.4	9304.5	9611.0	10007.5	6647.4	2920.9	1342.8
82.5°	478.7	507.1	676.1	944.7	2108.9	4217.8	4364.7	4644.4	2579.7	1262.2	695.1
85°	287.5	308.0	413.9	597.1	1200.6	1658.7	1657.1	1832.5	1214.8	812.0	366.5
87.5°	137.4	153.2	221.2	309.6	605.0	622.4	582.9	660.3	737.7	532.4	184.8
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°	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8	4702.8
2.5°	4699.6	4693.3	4672.8	4657.0	4653.8	4644.4	4636.5	4641.2	4647.5	4649.1	4649.1
5°	4698.1	4680.7	4653.8	4642.8	4657.0	4675.9	4699.6	4731.2	4750.2	4764.4	4773.9
7.5°	4773.9	4740.7	4710.7	4704.4	4732.8	4783.4	4837.1	4903.4	4949.2	4980.8	4987.1
10°	4900.3	4859.2	4829.2	4835.5	4886.0	4958.7	5034.5	5119.8	5189.4	5232.0	5235.2
12.5°	5045.6	5006.1	4977.7	5004.5	5088.3	5176.7	5255.7	5329.9	5393.1	5435.8	5435.8
15°	5213.0	5184.6	5151.4	5213.0	5326.8	5405.8	5438.9	5475.3	5510.0	5541.6	5535.3
17.5°	5374.2	5347.3	5329.9	5402.6	5521.1	5557.4	5535.3	5508.5	5508.5	5525.8	5529.0
20°	5513.2	5489.5	5500.6	5571.6	5633.3	5595.3	5513.2	5427.9	5393.1	5402.6	5412.1
22.5°	5634.8	5623.8	5656.9	5690.1	5645.9	5513.2	5361.5	5246.2	5203.6	5200.4	5203.6
25°	5777.0	5775.4	5816.5	5756.5	5560.6	5315.7	5111.9	4999.8	4976.1	4995.0	5026.6
27.5°	5953.9	5971.3	5991.8	5772.3	5386.8	5017.2	4810.2	4732.8	4756.5	4802.3	4832.3
30°	6179.8	6227.2	6183.0	5732.8	5137.2	4675.9	4478.5	4456.4	4521.1	4585.9	4617.5
32.5°	6399.4	6473.7	6366.2	5630.1	4815.0	4314.2	4161.0	4154.6	4233.6	4296.8	4341.0
35°	6576.3	6723.3	6503.7	5426.3	4442.1	3980.9	3868.7	3826.1	3854.5	3928.7	3979.3
37.5°	6807.0	7051.8	6598.5	5115.1	4037.7	3706.0	3574.9	3476.9	3451.7	3481.7	3507.0
40°	7228.8	7552.6	6642.7	4680.7	3642.8	3431.1	3298.4	3154.7	3055.2	2982.5	2984.1
42.5°	7917.5	8205.0	6614.3	4153.1	3277.9	3162.6	3012.5	2846.6	2685.5	2521.2	2508.6
45°	9035.9	9175.0	6528.9	3593.8	2957.2	2881.4	2740.8	2574.9	2360.1	2173.7	2156.3
47.5°	10825.8	10517.7	6396.3	3105.7	2674.5	2642.9	2513.3	2322.2	2094.7	1944.6	1932.0
50°	13266.4	12456.0	6331.5	2717.1	2424.9	2434.3	2328.5	2126.3	1911.5	1800.9	1788.2
52.5°	16185.7	14713.4	6456.3	2417.0	2224.2	2257.4	2178.4	1988.9	1808.8	1721.9	1709.2
55°	19214.0	17051.4	6590.6	2199.0	2034.7	2099.4	2072.6	1916.2	1753.5	1672.9	1661.9
57.5°	21806.3	18797.0	6322.0	2022.0	1865.6	1966.7	1990.4	1870.4	1725.0	1652.4	1639.7
60°	23438.2	19500.0	5617.5	1856.2	1731.4	1860.9	1943.0	1857.7	1736.1	1729.8	1720.3
62.5°	24212.2	19438.3	4560.6	1725.0	1647.6	1815.1	1977.8	1928.8	1862.5	1919.3	1924.1
65°	23864.7	18509.5	3396.4	1638.2	1587.6	1832.5	2082.1	2063.1	1898.8	1955.7	1963.6
67.5°	21577.3	16293.1	2514.9	1562.3	1521.3	1881.4	2271.6	2107.3	1827.7	1868.8	1843.5
70°	17440.0	12917.3	1939.9	1477.0	1453.3	1875.1	2356.9	2080.5	1750.3	1759.8	1691.9
72.5°	12026.3	8808.5	1578.1	1398.0	1355.4	1709.2	2296.9	2014.1	1685.6	1612.9	1522.8
75°	6540.0	4728.1	1341.2	1315.9	1183.2	1500.7	2186.3	1966.7	1627.1	1530.7	1480.2
77.5°	2573.3	1962.0	1164.2	1203.7	1034.7	1325.4	2063.1	1876.7	1546.5	1420.2	1394.9
80°	1050.5	1001.5	965.2	1041.0	889.4	1159.5	1914.6	1770.9	1450.2	1317.5	1266.9
82.5°	595.6	622.4	750.4	821.4	721.9	1067.9	1843.5	1685.6	1334.9	1180.0	1120.0
85°	304.9	364.9	522.9	589.2	530.8	908.3	1698.2	1475.5	1071.0	903.6	908.3
87.5°	146.9	203.8	330.2	369.7	344.4	657.2	1268.5	1069.5	834.1	660.3	639.8
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)