

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: P319122

Luminaire Tested: **GAN-SA8B-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319122
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-SA8B-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45479 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

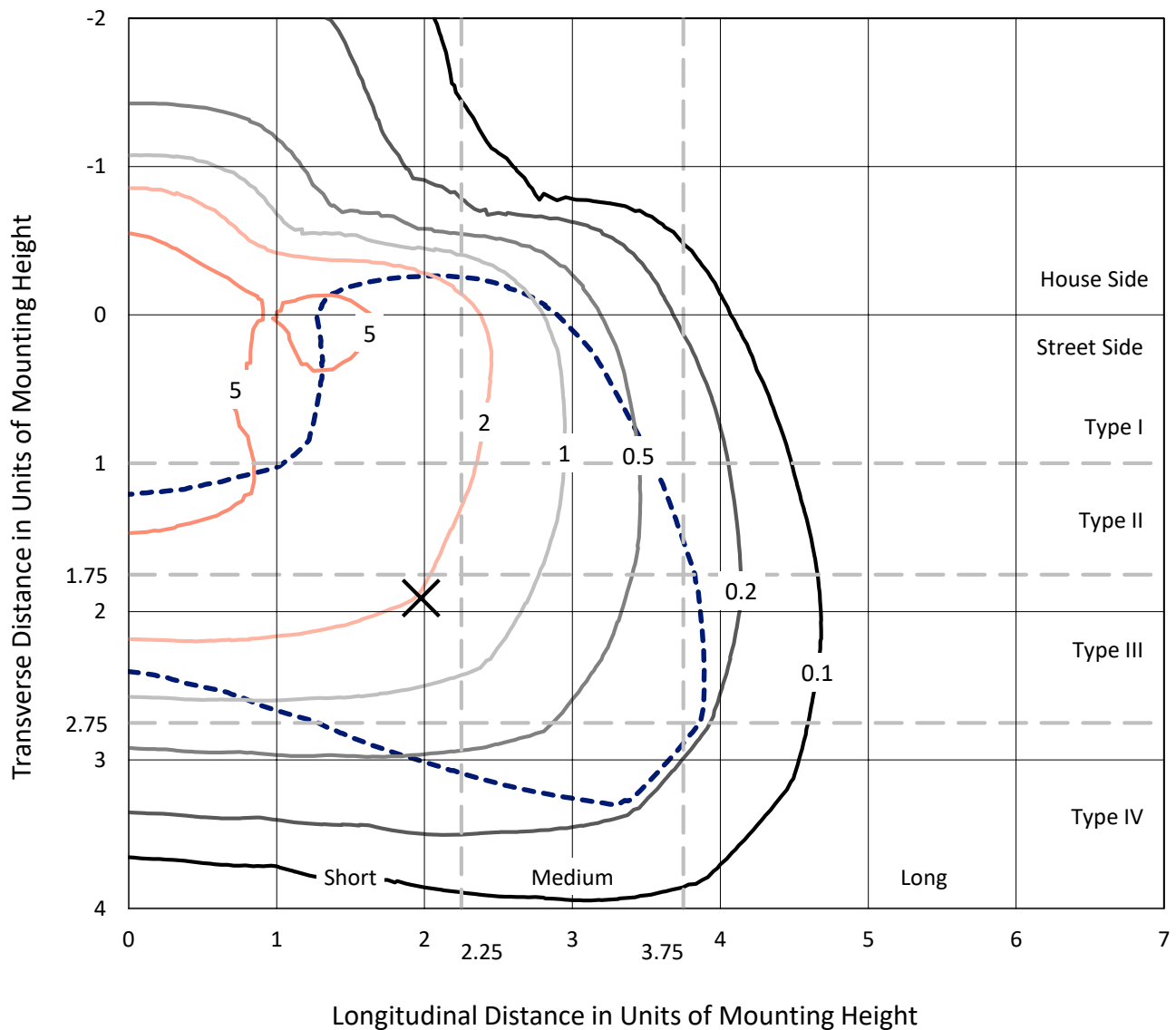
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

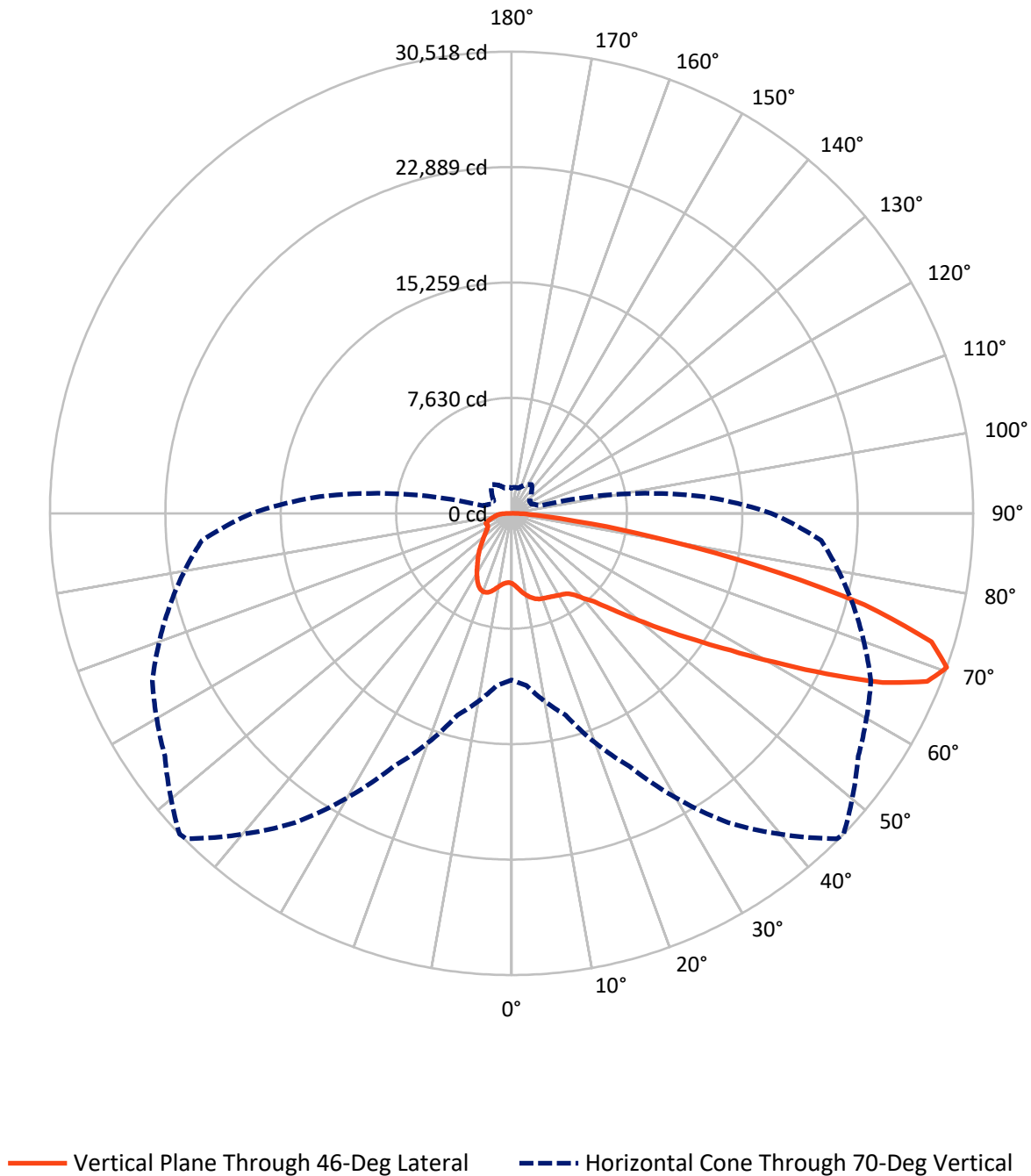
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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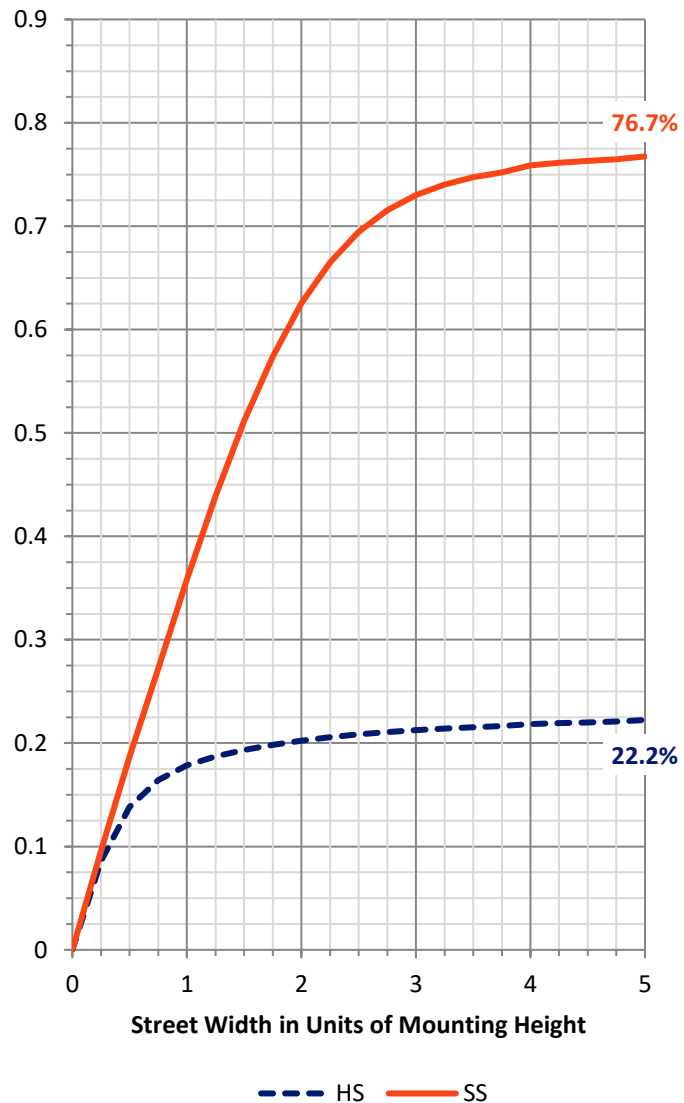
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10423.6	0.0	10423.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35055.4	0.0	35055.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	45479.0	0.0	45479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	1.0
10°-20°	1573.7	3.5
20°-30°	2624.0	5.8
30°-40°	3723.6	8.2
40°-50°	5477.2	12.0
50°-60°	9275.6	20.4
60°-70°	13166.5	29.0
70°-80°	7998.8	17.6
80°-90°	1167.3	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°	45479.0	100.0
0°-180°	45479.0	100.0

Coefficient of Utilization



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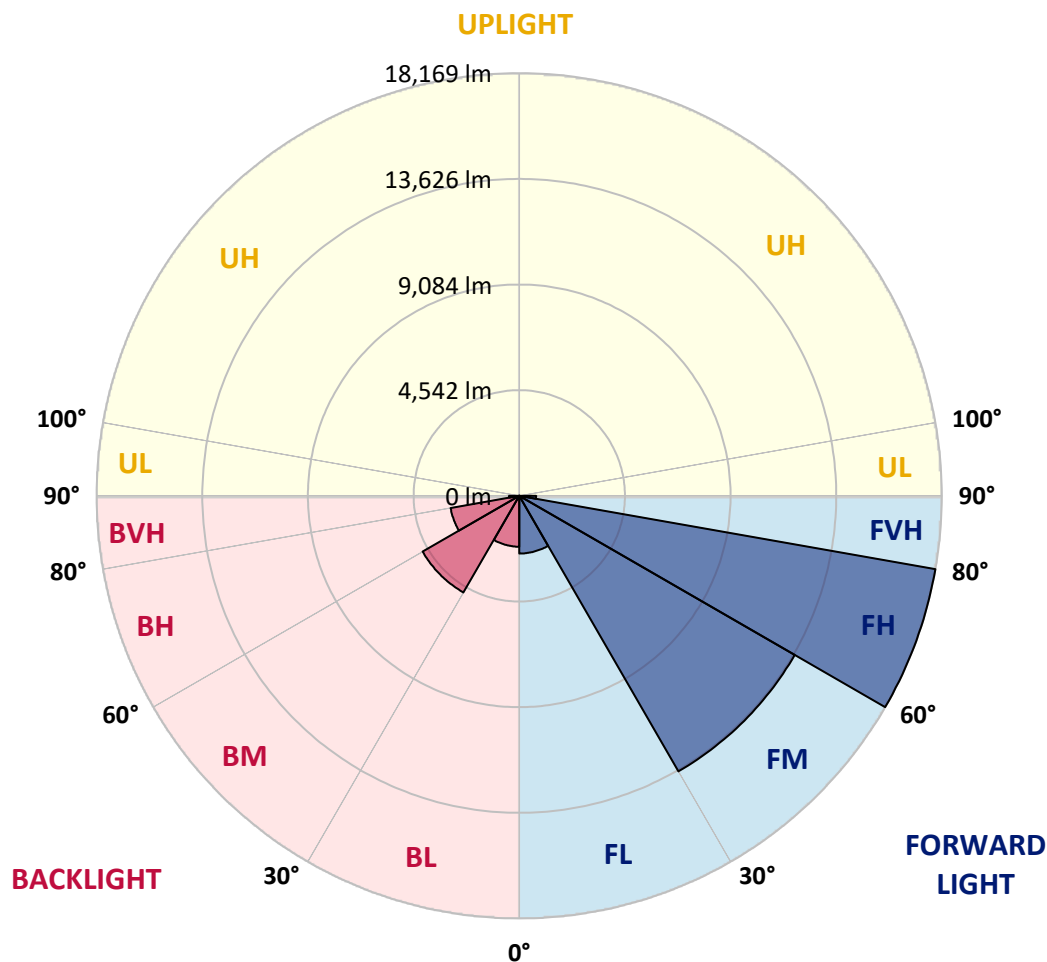
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2481.5	5.5			
FM	(30°-60°)	13678.1	30.1			
FH	(60°-80°)	18168.6	39.9			G5
FVH	(80°-90°)	727.1	1.6			G4/750
BL	(0°-30°)	2188.5	4.8	B3/2500		
BM	(30°-60°)	4798.3	10.6	B3/5000		
BH	(60°-80°)	2996.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	440.2	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°	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4
2.5°	4865.3	4868.4	4874.7	4859.1	4815.5	4803.1	4798.4	4753.3	4723.7	4680.1	4642.8
5°	5254.4	5257.5	5248.2	5204.6	5108.1	5036.5	5030.3	4927.6	4834.2	4734.6	4659.9
7.5°	5660.6	5665.3	5635.7	5553.3	5417.8	5293.3	5285.6	5145.5	5003.8	4852.9	4740.8
10°	6020.2	6001.5	5953.3	5838.1	5677.8	5525.2	5519.0	5372.7	5209.3	5027.2	4877.8
12.5°	6259.9	6244.3	6182.0	6042.0	5866.1	5726.0	5713.6	5578.2	5419.4	5220.2	5041.2
15°	6392.2	6403.1	6319.0	6160.3	5989.0	5870.8	5859.9	5763.4	5621.7	5421.0	5215.5
17.5°	6409.3	6418.6	6337.7	6180.5	6040.4	5959.5	5954.8	5891.0	5788.3	5595.3	5380.5
20°	6309.7	6315.9	6249.0	6119.8	6028.0	6003.1	6001.5	5973.5	5897.2	5726.0	5517.5
22.5°	6164.9	6169.6	6121.3	6028.0	5996.8	6035.7	6046.6	6035.7	5981.3	5821.0	5624.9
25°	6129.1	6126.0	6076.2	5981.3	6007.7	6090.2	6104.2	6108.9	6071.5	5931.5	5761.8
27.5°	6301.9	6291.0	6196.1	6043.5	6060.6	6160.3	6178.9	6224.1	6200.7	6077.8	5917.5
30°	6801.5	6782.8	6588.3	6280.1	6196.1	6247.4	6270.8	6342.4	6347.0	6244.3	6124.5
32.5°	7645.1	7621.7	7273.1	6722.1	6424.8	6336.1	6357.9	6465.3	6522.9	6443.5	6314.3
35°	8711.2	8684.7	8227.2	7473.9	6807.7	6505.8	6521.3	6606.9	6722.1	6610.1	6438.9
37.5°	9822.5	9758.7	9318.2	8357.9	7416.3	6868.4	6868.4	6879.3	6933.8	6700.3	6585.2
40°	10927.5	10863.7	10465.3	9397.6	8203.8	7439.6	7403.8	7162.6	7119.0	6918.2	6879.3
42.5°	11954.8	11936.1	11701.1	10572.7	9128.3	8001.5	7951.7	7542.3	7551.7	7427.2	7428.7
45°	13047.3	13047.3	12855.9	11758.6	10205.4	8904.2	8854.4	8252.1	8345.4	8287.9	8426.4
47.5°	13939.2	13967.2	13940.7	12994.4	11458.3	10051.3	9961.0	9235.7	9497.2	9694.9	10098.0
50°	14849.7	14893.2	14897.9	14350.1	12972.6	11414.7	11312.0	10541.5	11125.2	11691.7	12483.9
52.5°	16171.1	16269.1	15878.5	15702.6	14827.9	13033.3	12932.2	12220.9	13195.2	13990.5	15355.5
55°	17395.9	17310.3	17031.7	17140.7	16813.9	14876.1	14799.9	14175.7	15501.8	16535.3	18308.0
57.5°	18059.0	18052.8	18332.9	18799.8	18955.5	17148.5	17084.7	16477.7	18102.6	18879.2	21080.0
60°	18837.2	18848.1	19542.2	20602.1	21243.4	19978.0	19950.0	19489.3	20628.6	21067.5	23254.3
62.5°	18946.1	19142.2	20337.6	22161.7	23385.0	23283.8	23346.1	22202.1	22888.5	22813.8	24877.6
65°	17693.2	17951.6	20115.0	22633.3	25514.2	26899.4	26956.9	24930.5	24670.6	24306.4	25458.1
67.5°	15125.2	15508.0	17858.2	21607.6	26216.1	29571.7	29652.6	27045.7	26149.2	24812.2	24060.5
70°	11006.9	11431.8	13797.5	18454.3	24964.7	30426.2	30518.0	27981.1	26205.2	23372.5	20539.9
72.5°	6649.0	6982.0	8932.2	13585.9	21070.6	28869.8	29033.2	26795.1	23925.1	19797.5	15167.2
75°	2919.8	3137.7	4319.0	7828.7	15084.7	23886.2	24090.0	22935.2	19439.5	14387.4	8964.9
77.5°	1243.6	1305.8	1771.2	3400.7	8527.5	16322.0	16602.2	16757.8	13189.0	7828.7	3788.3
80°	775.1	800.0	1002.3	1539.3	3990.6	9167.2	9469.2	9859.8	6549.4	2877.8	1322.9
82.5°	471.6	499.6	666.1	930.7	2077.8	4155.6	4300.3	4575.8	2541.6	1243.6	684.8
85°	283.3	303.5	407.8	588.3	1182.9	1634.2	1632.7	1805.4	1196.9	800.0	361.1
87.5°	135.4	151.0	217.9	305.1	596.1	613.2	574.3	650.6	726.8	524.5	182.1
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°	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4
2.5°	4630.3	4624.1	4603.8	4588.3	4585.2	4575.8	4568.1	4572.7	4578.9	4580.5	4580.5
5°	4628.8	4611.6	4585.2	4574.3	4588.3	4607.0	4630.3	4661.4	4680.1	4694.1	4703.5
7.5°	4703.5	4670.8	4641.2	4635.0	4663.0	4712.8	4765.7	4831.1	4876.2	4907.3	4913.6
10°	4828.0	4787.5	4757.9	4764.2	4814.0	4885.6	4960.3	5044.3	5112.8	5154.8	5157.9
12.5°	4971.2	4932.2	4904.2	4930.7	5013.2	5100.3	5178.2	5251.3	5313.6	5355.6	5355.6
15°	5136.1	5108.1	5075.4	5136.1	5248.2	5326.0	5358.7	5394.5	5428.7	5459.9	5453.6
17.5°	5294.9	5268.4	5251.3	5322.9	5439.6	5475.4	5453.6	5427.2	5427.2	5444.3	5447.4
20°	5431.9	5408.5	5419.4	5489.4	5550.1	5512.8	5431.9	5347.8	5313.6	5322.9	5332.2
22.5°	5551.7	5540.8	5573.5	5606.2	5562.6	5431.9	5282.4	5168.8	5126.8	5123.7	5126.8
25°	5691.8	5690.2	5730.7	5671.5	5478.5	5237.3	5036.5	4926.0	4902.7	4921.4	4952.5
27.5°	5866.1	5883.2	5903.4	5687.1	5307.3	4943.1	4739.3	4663.0	4686.3	4731.5	4761.0
30°	6088.7	6135.4	6091.8	5648.2	5061.4	4607.0	4412.4	4390.6	4454.4	4518.2	4549.4
32.5°	6305.0	6378.2	6272.3	5547.0	4743.9	4250.5	4099.6	4093.3	4171.2	4233.4	4277.0
35°	6479.3	6624.1	6407.7	5346.3	4376.6	3922.1	3811.6	3769.6	3797.6	3870.8	3920.6
37.5°	6706.6	6947.8	6501.1	5039.6	3978.2	3651.3	3522.1	3425.6	3400.7	3430.3	3455.2
40°	7122.1	7441.2	6544.7	4611.6	3589.1	3380.5	3249.8	3108.1	3010.1	2938.5	2940.1
42.5°	7800.7	8084.0	6516.7	4091.8	3229.5	3115.9	2968.1	2804.6	2645.9	2484.0	2471.6
45°	8902.6	9039.6	6432.6	3540.8	2913.6	2838.9	2700.4	2536.9	2325.3	2141.6	2124.5
47.5°	10666.0	10362.5	6301.9	3059.9	2635.0	2603.9	2476.2	2287.9	2063.8	1915.9	1903.5
50°	13070.7	12272.3	6238.1	2677.0	2389.1	2398.4	2294.1	2094.9	1883.3	1774.3	1761.9
52.5°	15946.9	14496.4	6361.0	2381.3	2191.4	2224.1	2146.3	1959.5	1782.1	1696.5	1684.0
55°	18930.6	16799.8	6493.3	2166.5	2004.7	2068.5	2042.0	1887.9	1727.6	1648.2	1637.3
57.5°	21484.6	18519.7	6228.7	1992.2	1838.1	1937.7	1961.1	1842.8	1699.6	1628.0	1615.5
60°	23092.4	19212.3	5534.6	1828.8	1705.8	1833.4	1914.4	1830.3	1710.5	1704.3	1694.9
62.5°	23855.0	19151.6	4493.3	1699.6	1623.3	1788.3	1948.6	1900.4	1835.0	1891.0	1895.7
65°	23512.6	18236.4	3346.3	1614.0	1564.2	1805.4	2051.3	2032.7	1870.8	1926.8	1934.6
67.5°	21258.9	16052.8	2477.8	1539.3	1498.8	1853.7	2238.1	2076.2	1800.8	1841.2	1816.3
70°	17182.7	12726.7	1911.3	1455.2	1431.9	1847.5	2322.2	2049.8	1724.5	1733.8	1666.9
72.5°	11848.9	8678.5	1554.8	1377.4	1335.4	1684.0	2263.0	1984.4	1660.7	1589.1	1500.4
75°	6443.5	4658.3	1321.4	1296.5	1165.7	1478.6	2154.1	1937.7	1603.1	1508.2	1458.4
77.5°	2535.4	1933.1	1147.1	1186.0	1019.4	1305.8	2032.7	1849.0	1523.7	1399.2	1374.3
80°	1035.0	986.8	951.0	1025.7	876.3	1142.4	1886.4	1744.7	1428.8	1298.0	1248.2
82.5°	586.8	613.2	739.3	809.3	711.3	1052.1	1816.3	1660.7	1315.2	1162.6	1103.5
85°	300.4	359.5	515.2	580.5	523.0	894.9	1673.1	1453.7	1055.2	890.3	894.9
87.5°	144.7	200.8	325.3	364.2	339.3	647.5	1249.8	1053.7	821.8	650.6	630.3
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)