

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: P318963

Luminaire Tested: **GAN-SA9B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318963
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-SA9B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 42426 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

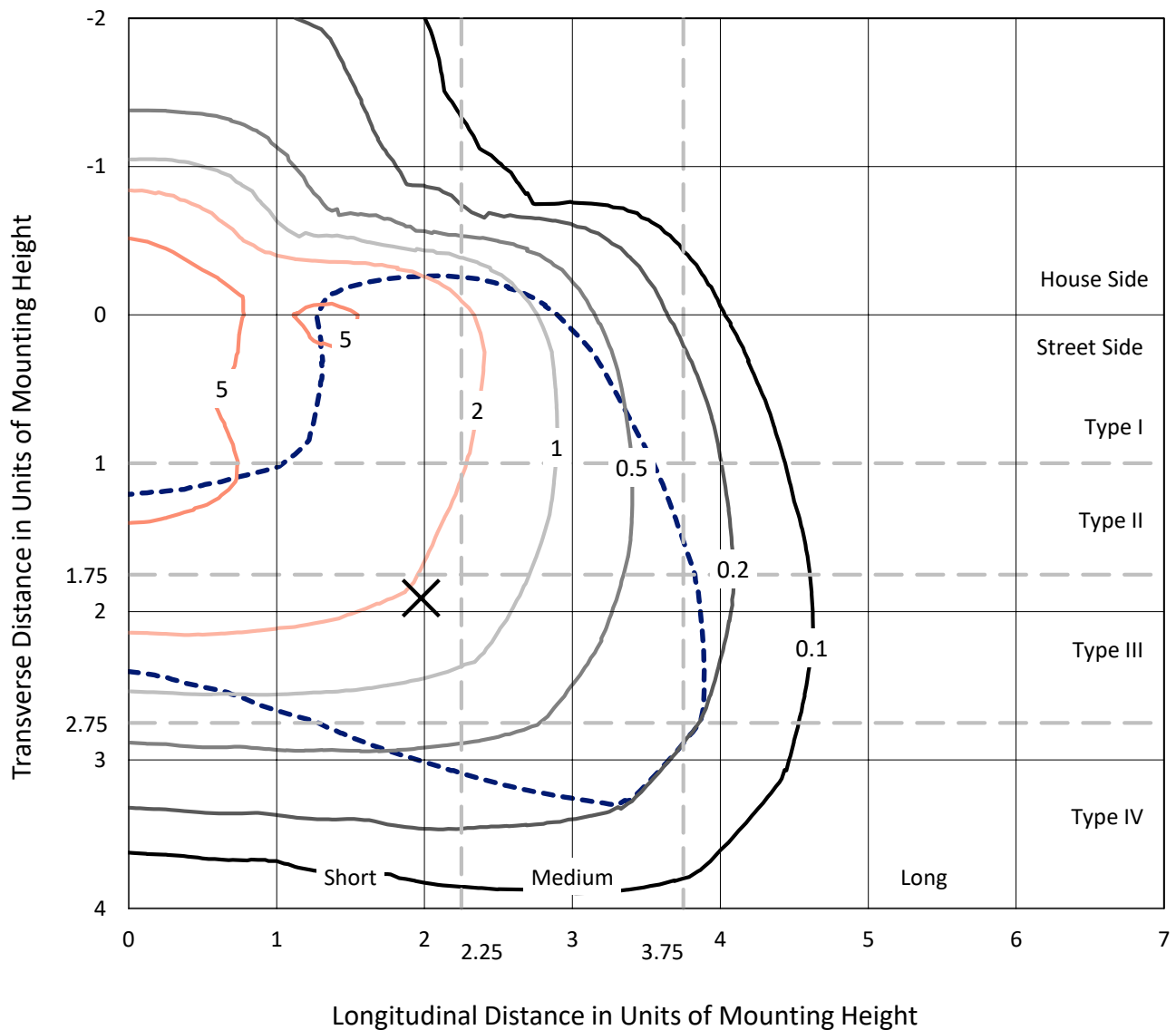
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

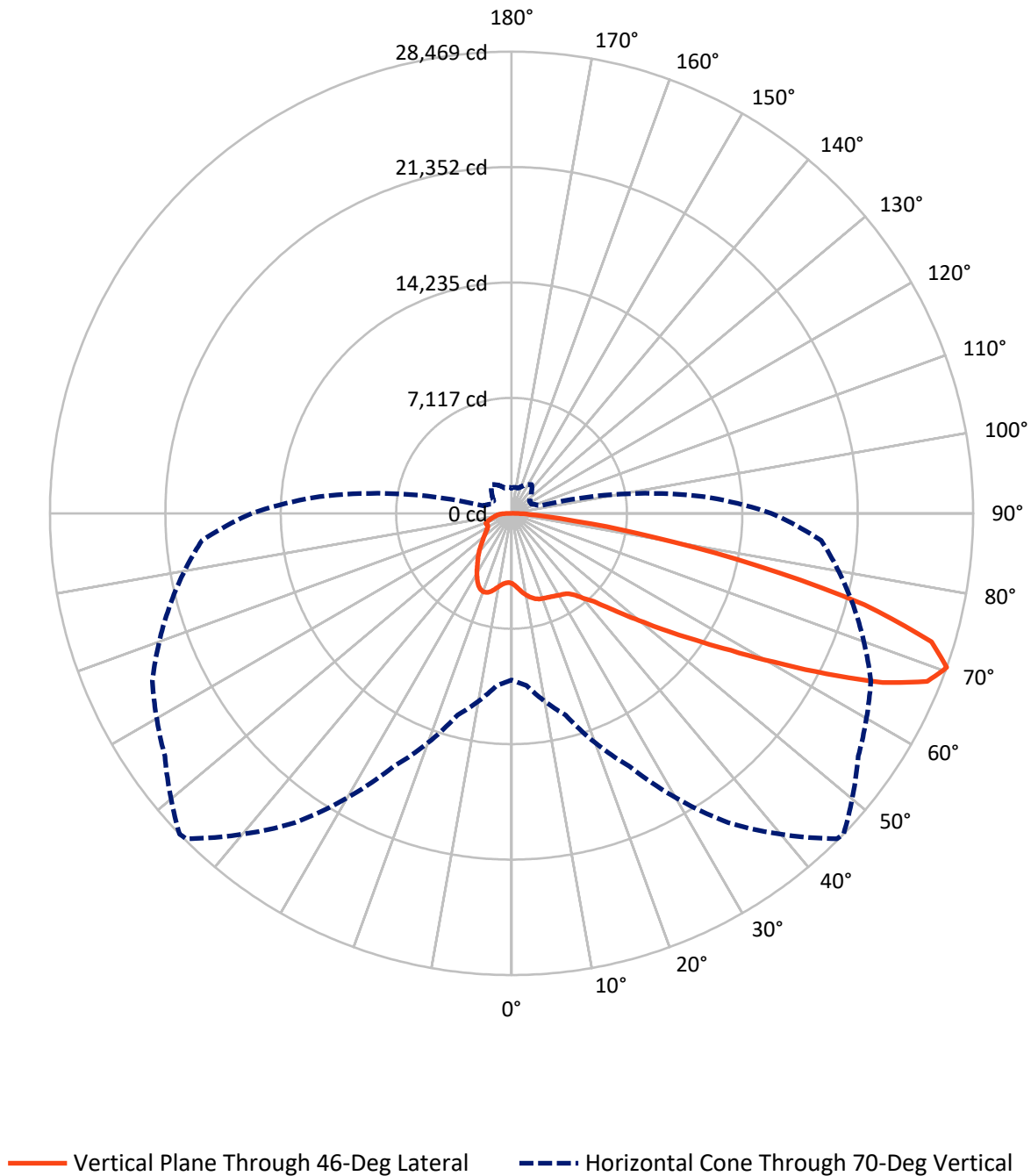
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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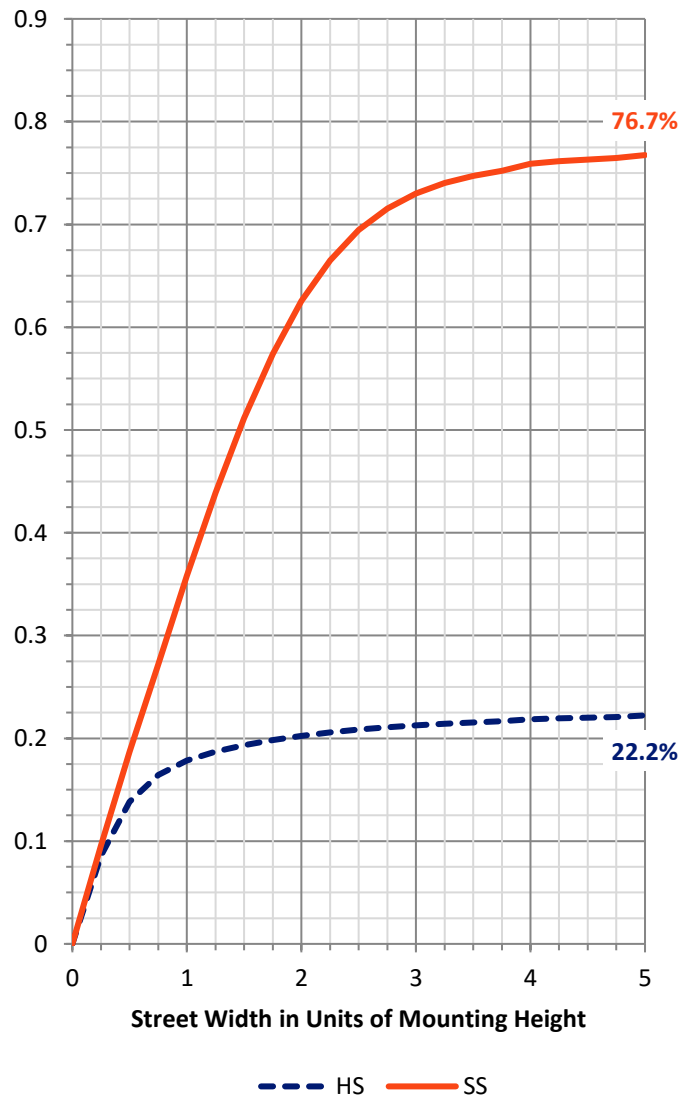
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9723.9	0.0	9723.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32702.1	0.0	32702.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	42426.0	0.0	42426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	1.0
10°-20°	1468.1	3.5
20°-30°	2447.8	5.8
30°-40°	3473.6	8.2
40°-50°	5109.5	12.0
50°-60°	8652.9	20.4
60°-70°	12282.7	29.0
70°-80°	7461.8	17.6
80°-90°	1089.0	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°	42426.0	100.0
0°-180°	42426.0	100.0

Coefficient of Utilization



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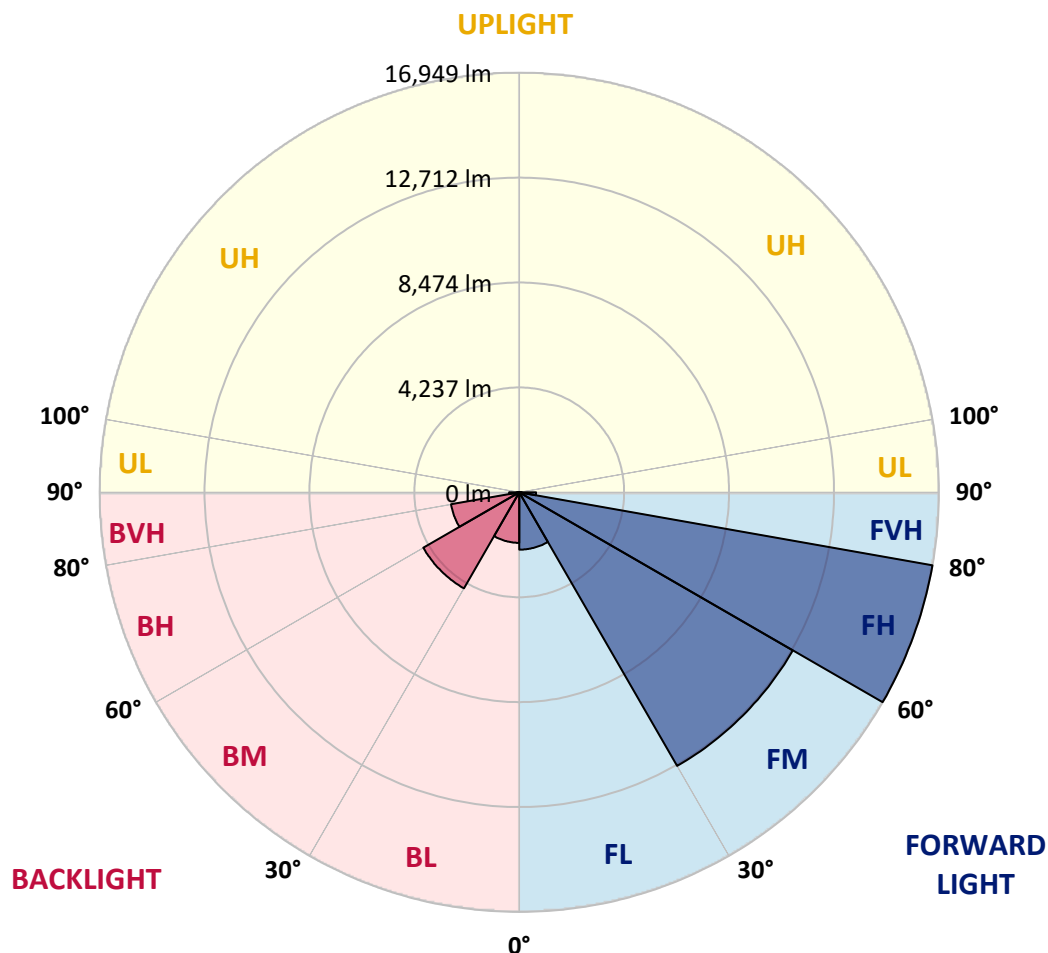
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2315.0	5.5			
FM	(30°-60°)	12759.8	30.1			
FH	(60°-80°)	16949.0	39.9			G5
FVH	(80°-90°)	678.3	1.6			G4/750
BL	(0°-30°)	2041.6	4.8	B3/2500		
BM	(30°-60°)	4476.2	10.6	B3/5000		
BH	(60°-80°)	2795.5	6.6	B4/5000		G4/5000
BVH	(80°-90°)	410.6	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°	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4
2.5°	4538.7	4541.6	4547.4	4532.9	4492.3	4480.6	4476.3	4434.2	4406.6	4365.9	4331.1
5°	4901.7	4904.6	4895.9	4855.2	4765.2	4698.4	4692.6	4596.8	4509.7	4416.8	4347.1
7.5°	5280.6	5285.0	5257.4	5180.5	5054.1	4938.0	4930.7	4800.1	4667.9	4527.1	4422.6
10°	5616.0	5598.6	5553.6	5446.2	5296.6	5154.3	5148.5	5012.0	4859.6	4689.7	4550.3
12.5°	5839.6	5825.1	5767.0	5636.4	5472.3	5341.6	5330.0	5203.7	5055.6	4869.8	4702.8
15°	5963.1	5973.2	5894.8	5746.7	5587.0	5476.7	5466.5	5376.5	5244.4	5057.1	4865.4
17.5°	5979.0	5987.7	5912.2	5765.6	5634.9	5559.4	5555.1	5495.5	5399.7	5219.7	5019.3
20°	5886.1	5891.9	5829.5	5709.0	5623.3	5600.1	5598.6	5572.5	5501.3	5341.6	5147.1
22.5°	5751.1	5755.4	5710.4	5623.3	5594.3	5630.6	5640.7	5630.6	5579.7	5430.2	5247.3
25°	5717.7	5714.8	5668.3	5579.7	5604.4	5681.4	5694.4	5698.8	5664.0	5533.3	5375.0
27.5°	5878.8	5868.7	5780.1	5637.8	5653.8	5746.7	5764.1	5806.2	5784.5	5669.8	5520.2
30°	6344.9	6327.5	6146.0	5858.5	5780.1	5828.0	5849.8	5916.6	5920.9	5825.1	5713.3
32.5°	7131.9	7110.1	6784.8	6270.9	5993.5	5910.8	5931.1	6031.3	6085.0	6011.0	5890.5
35°	8126.4	8101.7	7674.9	6972.1	6350.7	6069.0	6083.6	6163.4	6270.9	6166.3	6006.6
37.5°	9163.1	9103.6	8692.7	7796.8	6918.4	6407.3	6407.3	6417.5	6468.3	6250.5	6143.1
40°	10194.0	10134.4	9762.7	8766.7	7653.1	6940.2	6906.8	6681.8	6641.1	6453.8	6417.5
42.5°	11152.2	11134.8	10915.6	9862.9	8515.5	7464.3	7417.9	7036.0	7044.7	6928.6	6930.0
45°	12171.5	12171.5	11992.9	10969.3	9520.3	8306.5	8260.0	7698.1	7785.2	7731.5	7860.7
47.5°	13003.4	13029.6	13004.9	12122.1	10689.1	9376.5	9292.3	8615.7	8859.6	9044.0	9420.1
50°	13852.8	13893.5	13897.8	13386.7	12101.8	10648.4	10552.6	9833.9	10378.4	10906.9	11645.9
52.5°	15085.5	15177.0	14812.5	14648.5	13832.5	12158.4	12064.0	11400.5	12309.4	13051.3	14324.7
55°	16228.2	16148.3	15888.4	15990.0	15685.1	13877.5	13806.3	13224.1	14461.2	15425.2	17079.0
57.5°	16846.7	16840.9	17102.2	17537.8	17683.0	15997.3	15937.8	15371.5	16887.3	17611.8	19664.9
60°	17572.6	17582.8	18230.4	19219.1	19817.3	18636.9	18610.8	18181.0	19243.8	19653.2	21693.2
62.5°	17674.3	17857.2	18972.3	20674.0	21815.2	21720.8	21778.9	20711.7	21352.0	21282.3	23207.6
65°	16505.5	16746.5	18764.7	21113.9	23801.4	25093.6	25147.3	23256.9	23014.5	22674.7	23749.1
67.5°	14109.8	14467.0	16659.4	20157.1	24456.2	27586.6	27662.1	25230.1	24393.8	23146.6	22445.3
70°	10268.0	10664.4	12871.3	17215.5	23288.9	28383.7	28469.3	26102.7	24446.1	21803.5	19161.0
72.5°	6202.6	6513.3	8332.6	12673.8	19656.2	26931.7	27084.2	24996.3	22319.0	18468.5	14149.0
75°	2723.8	2927.1	4029.1	7303.2	14072.1	22282.7	22472.9	21395.6	18134.5	13421.6	8363.1
77.5°	1160.1	1218.2	1652.3	3172.5	7955.1	15226.3	15487.7	15632.9	12303.6	7303.2	3534.0
80°	723.1	746.3	935.0	1436.0	3722.7	8551.8	8833.5	9197.9	6109.7	2684.6	1234.1
82.5°	439.9	466.1	621.4	868.3	1938.3	3876.6	4011.7	4268.7	2371.0	1160.1	638.8
85°	264.3	283.1	380.4	548.8	1103.5	1524.5	1523.1	1684.2	1116.5	746.3	336.8
87.5°	126.3	140.8	203.3	284.6	556.1	572.1	535.8	606.9	678.0	489.3	169.9
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°	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4	4322.4
2.5°	4319.5	4313.7	4294.8	4280.3	4277.4	4268.7	4261.4	4265.8	4271.6	4273.0	4273.0
5°	4318.0	4302.1	4277.4	4267.2	4280.3	4297.7	4319.5	4348.5	4365.9	4379.0	4387.7
7.5°	4387.7	4357.2	4329.6	4323.8	4350.0	4396.4	4445.8	4506.8	4548.9	4577.9	4583.7
10°	4503.9	4466.1	4438.5	4444.3	4490.8	4557.6	4627.3	4705.7	4769.6	4808.8	4811.7
12.5°	4637.4	4601.1	4575.0	4599.7	4676.6	4758.0	4830.6	4898.8	4956.9	4996.1	4996.1
15°	4791.4	4765.2	4734.7	4791.4	4895.9	4968.5	4999.0	5032.4	5064.3	5093.4	5087.5
17.5°	4939.4	4914.8	4898.8	4965.6	5074.5	5107.9	5087.5	5062.9	5062.9	5078.8	5081.7
20°	5067.2	5045.4	5055.6	5120.9	5177.6	5142.7	5067.2	4988.8	4956.9	4965.6	4974.3
22.5°	5179.0	5168.9	5199.3	5229.8	5189.2	5067.2	4927.8	4821.8	4782.6	4779.7	4782.6
25°	5309.7	5308.2	5346.0	5290.8	5110.8	4885.7	4698.4	4595.3	4573.6	4591.0	4620.0
27.5°	5472.3	5488.3	5507.1	5305.3	4951.1	4611.3	4421.1	4350.0	4371.7	4413.9	4441.4
30°	5679.9	5723.5	5682.8	5269.0	4721.7	4297.7	4116.2	4095.9	4155.4	4214.9	4244.0
32.5°	5881.7	5950.0	5851.3	5174.7	4425.5	3965.2	3824.4	3818.6	3891.2	3949.2	3989.9
35°	6044.4	6179.4	5977.6	4987.4	4082.8	3658.8	3555.8	3516.6	3542.7	3610.9	3657.4
37.5°	6256.3	6481.4	6064.7	4701.3	3711.1	3406.2	3285.7	3195.7	3172.5	3200.0	3223.3
40°	6644.0	6941.7	6105.3	4302.1	3348.1	3153.6	3031.6	2899.5	2808.0	2741.2	2742.7
42.5°	7277.0	7541.3	6079.2	3817.1	3012.7	2906.8	2768.8	2616.4	2468.3	2317.3	2305.7
45°	8305.0	8432.8	6000.8	3303.1	2718.0	2648.3	2519.1	2366.6	2169.2	1997.8	1981.9
47.5°	9950.0	9666.9	5878.8	2854.5	2458.1	2429.1	2310.0	2134.3	1925.3	1787.3	1775.7
50°	12193.3	11448.4	5819.3	2497.3	2228.7	2237.4	2140.1	1954.3	1756.8	1655.2	1643.6
52.5°	14876.4	13523.2	5934.0	2221.4	2044.3	2074.8	2002.2	1828.0	1662.5	1582.6	1571.0
55°	17659.8	15672.1	6057.4	2021.1	1870.1	1929.6	1904.9	1761.2	1611.6	1537.6	1527.4
57.5°	20042.4	17276.4	5810.6	1858.5	1714.7	1807.6	1829.4	1719.1	1585.5	1518.7	1507.1
60°	21542.2	17922.6	5163.0	1706.0	1591.3	1710.4	1785.9	1707.5	1595.7	1589.9	1581.1
62.5°	22253.6	17865.9	4191.7	1585.5	1514.4	1668.3	1817.8	1772.8	1711.8	1764.1	1768.4
65°	21934.2	17012.2	3121.6	1505.6	1459.2	1684.2	1913.6	1896.2	1745.2	1797.5	1804.7
67.5°	19831.8	14975.1	2311.5	1436.0	1398.2	1729.2	2087.9	1936.9	1679.9	1717.6	1694.4
70°	16029.2	11872.4	1783.0	1357.5	1335.8	1723.4	2166.3	1912.2	1608.7	1617.4	1555.0
72.5°	11053.5	8095.9	1450.5	1285.0	1245.8	1571.0	2111.1	1851.2	1549.2	1482.4	1399.7
75°	6011.0	4345.6	1232.7	1209.5	1087.5	1379.3	2009.5	1807.6	1495.5	1406.9	1360.5
77.5°	2365.2	1803.3	1070.1	1106.4	951.0	1218.2	1896.2	1724.9	1421.4	1305.3	1282.0
80°	965.5	920.5	887.1	956.8	817.4	1065.7	1759.7	1627.6	1332.9	1210.9	1164.4
82.5°	547.4	572.1	689.7	755.0	663.5	981.5	1694.4	1549.2	1226.9	1084.6	1029.4
85°	280.2	335.4	480.6	541.6	487.8	834.9	1560.8	1356.1	984.4	830.5	834.9
87.5°	135.0	187.3	303.5	339.8	316.5	604.0	1165.9	983.0	766.6	606.9	588.0
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)