

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: P318971

Luminaire Tested: **GAN-SA7C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318971
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-SA7C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 41547 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

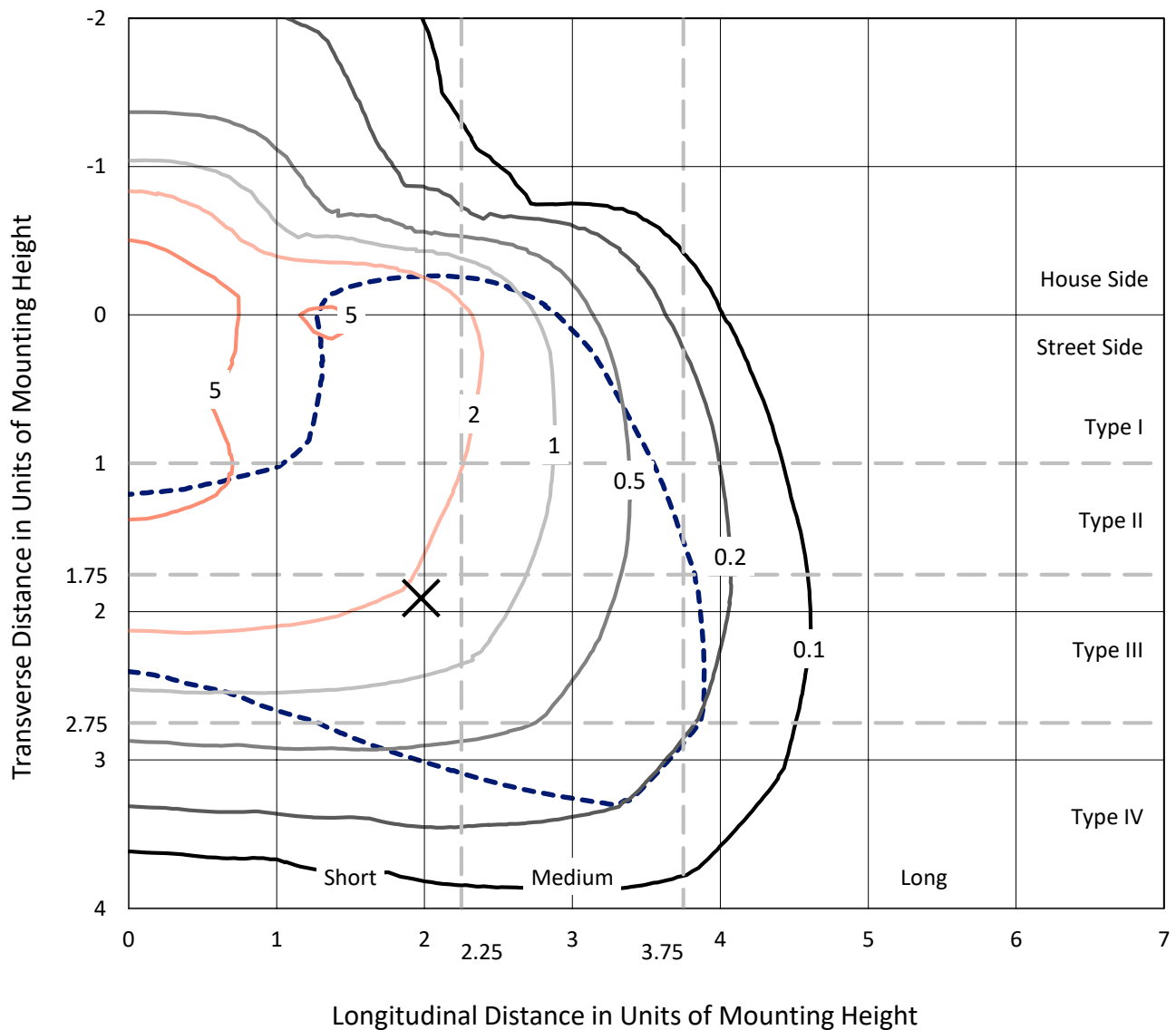
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

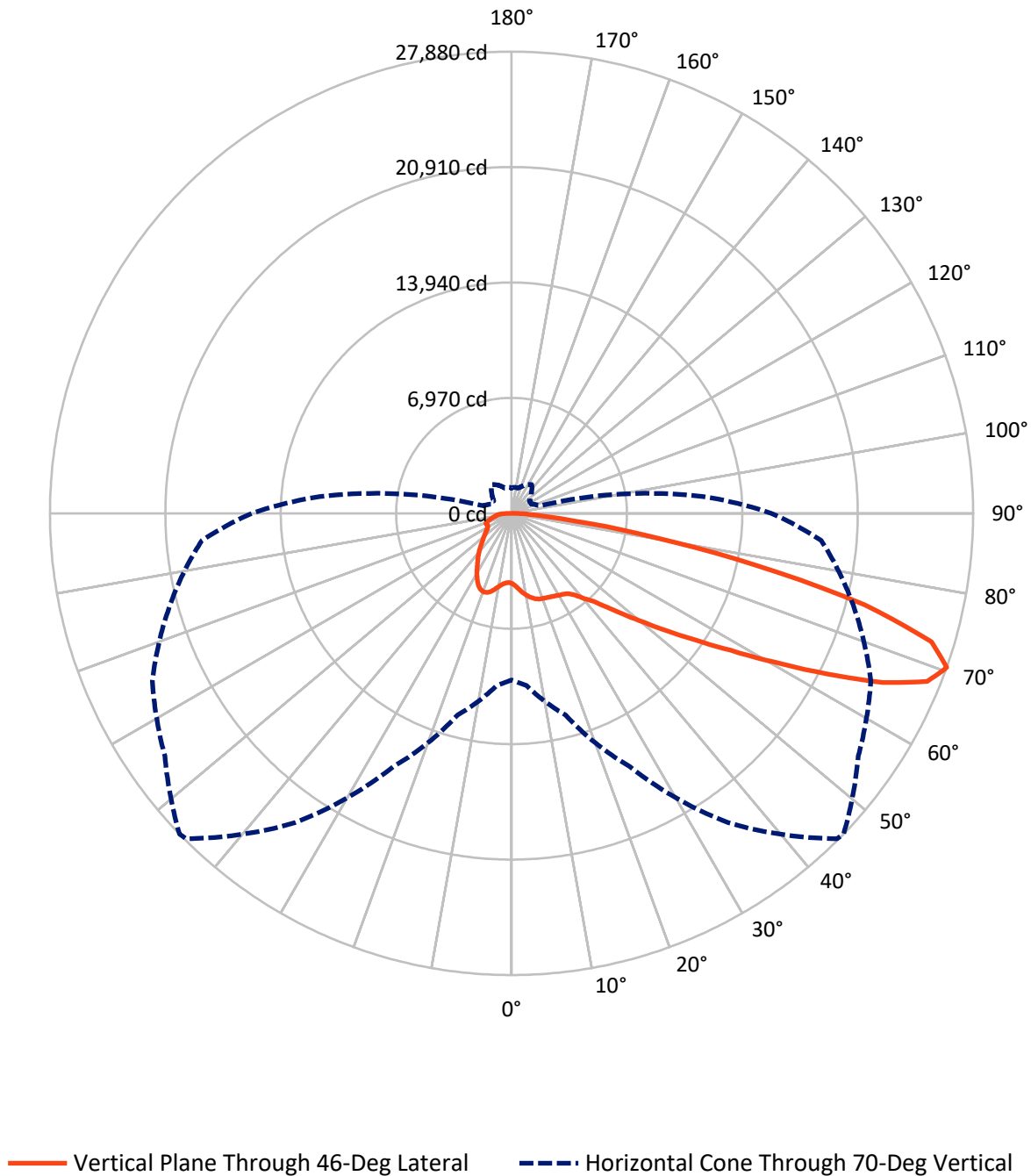
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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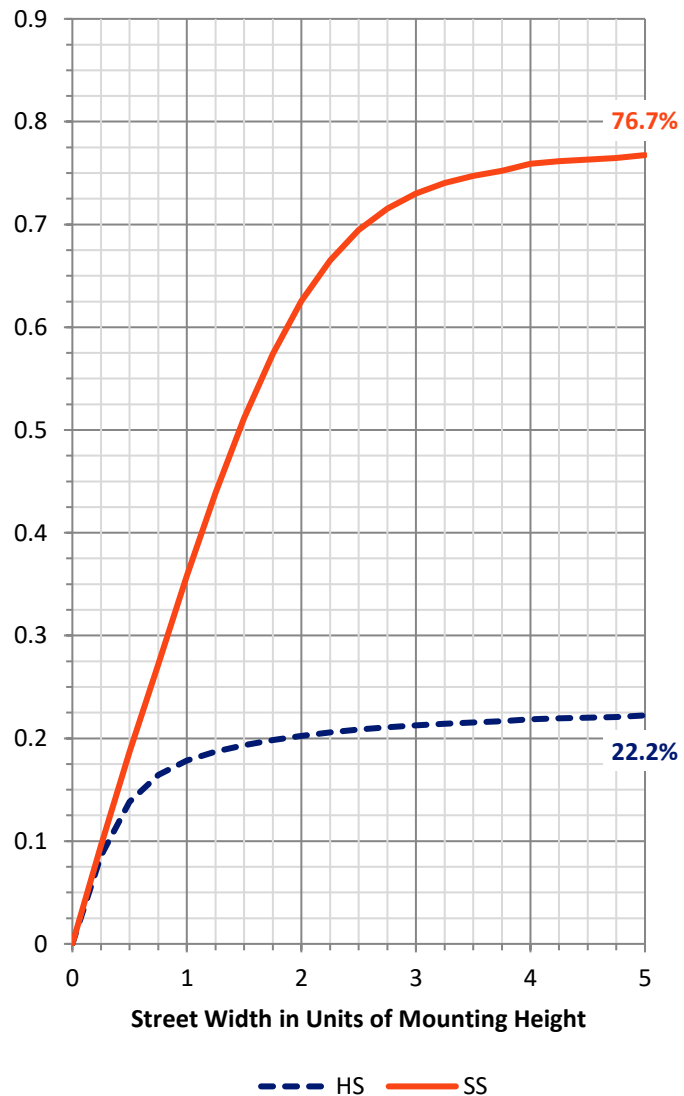
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9522.4	0.0	9522.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32024.6	0.0	32024.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	41547.0	0.0	41547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.5	1.0
10°-20°	1437.7	3.5
20°-30°	2397.1	5.8
30°-40°	3401.6	8.2
40°-50°	5003.6	12.0
50°-60°	8473.6	20.4
60°-70°	12028.2	29.0
70°-80°	7307.2	17.6
80°-90°	1066.4	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°	41547.0	100.0
0°-180°	41547.0	100.0

Coefficient of Utilization



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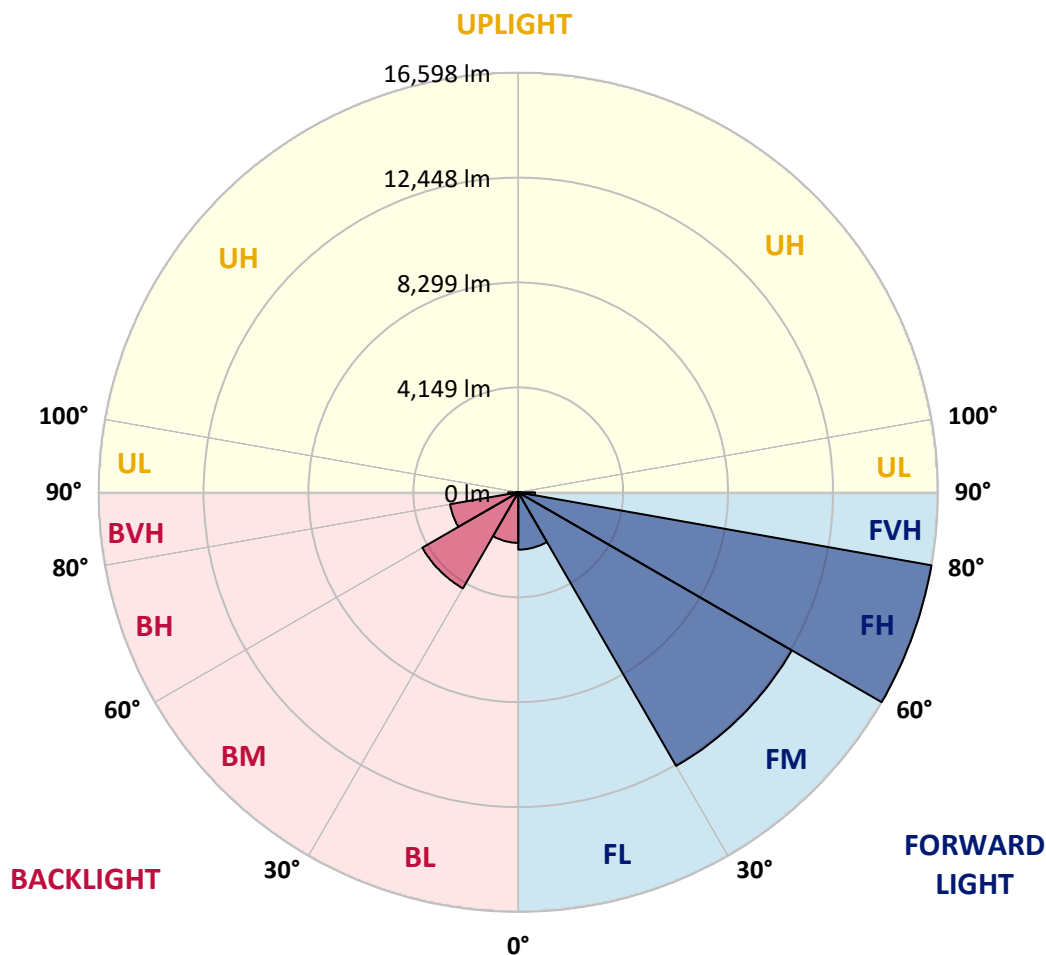
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2267.0	5.5			
FM	(30°-60°)	12495.5	30.1			
FH	(60°-80°)	16597.8	39.9			G5
FVH	(80°-90°)	664.3	1.6			G4/750
BL	(0°-30°)	1999.3	4.8	B3/2500		
BM	(30°-60°)	4383.4	10.6	B3/5000		
BH	(60°-80°)	2737.6	6.6	B4/5000		G4/5000
BVH	(80°-90°)	402.1	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°	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8
2.5°	4444.7	4447.5	4453.2	4439.0	4399.2	4387.8	4383.5	4342.3	4315.3	4275.5	4241.4
5°	4800.1	4803.0	4794.5	4754.6	4666.5	4601.1	4595.4	4501.6	4416.2	4325.2	4257.0
7.5°	5171.2	5175.5	5148.5	5073.1	4949.4	4835.7	4828.6	4700.6	4571.2	4433.3	4330.9
10°	5499.7	5482.6	5438.5	5333.3	5186.9	5047.5	5041.9	4908.2	4758.9	4592.6	4456.1
12.5°	5718.7	5704.4	5647.6	5519.6	5358.9	5231.0	5219.6	5095.9	4950.9	4768.9	4605.3
15°	5839.5	5849.5	5772.7	5627.7	5471.3	5363.2	5353.2	5265.1	5135.7	4952.3	4764.6
17.5°	5855.1	5863.7	5789.7	5646.1	5518.2	5444.2	5440.0	5381.7	5287.8	5111.5	4915.3
20°	5764.2	5769.8	5708.7	5590.7	5506.8	5484.0	5482.6	5457.0	5387.4	5231.0	5040.4
22.5°	5631.9	5636.2	5592.1	5506.8	5478.4	5513.9	5523.9	5513.9	5464.1	5317.7	5138.5
25°	5599.2	5596.4	5550.9	5464.1	5488.3	5563.7	5576.5	5580.7	5546.6	5418.6	5263.7
27.5°	5757.0	5747.1	5660.4	5521.0	5536.7	5627.7	5644.7	5685.9	5664.6	5552.3	5405.8
30°	6213.5	6196.4	6018.7	5737.1	5660.4	5707.3	5728.6	5794.0	5798.3	5704.4	5595.0
32.5°	6984.1	6962.8	6644.3	6140.9	5869.4	5788.3	5808.2	5906.3	5958.9	5886.4	5768.4
35°	7958.1	7933.9	7515.9	6827.7	6219.1	5943.3	5957.5	6035.7	6140.9	6038.6	5882.2
37.5°	8973.3	8915.0	8512.6	7635.3	6775.1	6274.6	6274.6	6284.5	6334.3	6121.0	6015.8
40°	9982.8	9924.5	9560.5	8585.1	7494.5	6796.4	6763.7	6543.3	6503.5	6320.1	6284.5
42.5°	10921.2	10904.1	10689.4	9658.6	8339.1	7309.7	7264.2	6890.3	6898.8	6785.0	6786.5
45°	11919.3	11919.3	11744.4	10742.0	9323.0	8134.4	8088.9	7538.6	7623.9	7571.3	7697.9
47.5°	12734.0	12759.6	12735.4	11871.0	10467.6	9182.3	9099.8	8437.2	8676.1	8856.7	9224.9
50°	13565.8	13605.6	13609.9	13109.4	11851.1	10427.8	10334.0	9630.1	10163.3	10680.9	11404.6
52.5°	14772.9	14862.5	14505.6	14345.0	13545.9	11906.5	11814.1	11164.3	12054.4	12780.9	14027.9
55°	15891.9	15813.7	15559.2	15658.8	15360.2	13590.0	13520.3	12950.1	14161.6	15105.7	16725.1
57.5°	16497.6	16492.0	16747.9	17174.4	17316.6	15665.9	15607.6	15053.1	16537.5	17247.0	19257.4
60°	17208.6	17218.5	17852.7	18820.9	19406.7	18250.8	18225.2	17804.3	18845.1	19246.1	21243.8
62.5°	17308.1	17487.2	18579.2	20245.6	21363.2	21270.8	21327.6	20282.6	20909.6	20841.4	22726.7
65°	16163.5	16399.5	18375.9	20676.4	23308.3	24573.7	24626.3	22775.1	22537.6	22204.9	23257.1
67.5°	13817.5	14167.2	16314.2	19739.4	23949.5	27015.0	27088.9	24707.4	23888.4	22667.0	21980.3
70°	10055.3	10443.4	12604.6	16858.8	22806.4	27795.6	27879.5	25561.9	23939.6	21351.8	18764.1
72.5°	6074.1	6378.4	8160.0	12411.3	19248.9	26373.8	26523.1	24478.4	21856.6	18085.8	13855.9
75°	2667.4	2866.4	3945.6	7151.9	13780.5	21821.0	22007.3	20952.3	17758.8	13143.5	8189.8
77.5°	1136.1	1192.9	1618.1	3106.7	7790.3	14910.9	15166.8	15309.0	12048.7	7151.9	3460.8
80°	708.1	730.8	915.7	1406.2	3645.6	8374.7	8650.5	9007.4	5983.1	2629.0	1208.6
82.5°	430.8	456.4	608.5	850.3	1898.2	3796.3	3928.6	4180.2	2321.9	1136.1	625.6
85°	258.8	277.3	372.5	537.5	1080.6	1492.9	1491.5	1649.3	1093.4	730.8	329.9
87.5°	123.7	137.9	199.1	278.7	544.6	560.2	524.7	594.3	664.0	479.2	166.4
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°	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8
2.5°	4230.0	4224.3	4205.8	4191.6	4188.7	4180.2	4173.1	4177.4	4183.1	4184.5	4184.5
5°	4228.6	4212.9	4188.7	4178.8	4191.6	4208.7	4230.0	4258.4	4275.5	4288.3	4296.8
7.5°	4296.8	4267.0	4239.9	4234.2	4259.8	4305.3	4353.7	4413.4	4454.6	4483.1	4488.8
10°	4410.6	4373.6	4346.6	4352.3	4397.8	4463.2	4531.4	4608.2	4670.8	4709.1	4712.0
12.5°	4541.4	4505.8	4480.2	4504.4	4579.8	4659.4	4730.5	4797.3	4854.2	4892.6	4892.6
15°	4692.1	4666.5	4636.6	4692.1	4794.5	4865.5	4895.4	4928.1	4959.4	4987.8	4982.1
17.5°	4837.1	4812.9	4797.3	4862.7	4969.3	5002.0	4982.1	4958.0	4958.0	4973.6	4976.4
20°	4962.2	4940.9	4950.9	5014.8	5070.3	5036.2	4962.2	4885.5	4854.2	4862.7	4871.2
22.5°	5071.7	5061.8	5091.6	5121.5	5081.7	4962.2	4825.7	4721.9	4683.6	4680.7	4683.6
25°	5199.7	5198.3	5235.2	5181.2	5004.9	4784.5	4601.1	4500.1	4478.8	4495.9	4524.3
27.5°	5358.9	5374.6	5393.0	5195.4	4848.5	4515.8	4329.5	4259.8	4281.2	4322.4	4349.4
30°	5562.2	5604.9	5565.1	5159.9	4623.8	4208.7	4030.9	4011.0	4069.3	4127.6	4156.0
32.5°	5759.9	5826.7	5730.0	5067.4	4333.8	3883.1	3745.1	3739.4	3810.5	3867.4	3907.2
35°	5919.1	6051.4	5853.7	4884.0	3998.2	3583.0	3482.1	3443.7	3469.3	3536.1	3581.6
37.5°	6126.7	6347.1	5939.0	4603.9	3634.2	3335.6	3217.6	3129.5	3106.7	3133.7	3156.5
40°	6506.4	6797.8	5978.8	4212.9	3278.8	3088.2	2968.8	2839.4	2749.8	2684.4	2685.9
42.5°	7126.3	7385.1	5953.3	3738.0	2950.3	2846.5	2711.5	2562.2	2417.1	2269.3	2257.9
45°	8132.9	8258.1	5876.5	3234.7	2661.7	2593.4	2466.9	2317.6	2124.2	1956.5	1940.8
47.5°	9743.9	9466.6	5757.0	2795.3	2407.2	2378.7	2262.2	2090.1	1885.4	1750.3	1738.9
50°	11940.6	11211.2	5698.7	2445.6	2182.5	2191.1	2095.8	1913.8	1720.4	1620.9	1609.5
52.5°	14568.2	13243.0	5811.1	2175.4	2002.0	2031.8	1960.7	1790.1	1628.0	1549.8	1538.4
55°	17293.9	15347.4	5931.9	1979.2	1831.3	1889.6	1865.5	1724.7	1578.2	1505.7	1495.8
57.5°	19627.1	16918.5	5690.2	1820.0	1679.2	1770.2	1791.5	1683.5	1552.7	1487.2	1475.9
60°	21095.9	17551.2	5056.1	1670.7	1558.3	1674.9	1748.9	1672.1	1562.6	1556.9	1548.4
62.5°	21792.6	17495.8	4104.9	1552.7	1483.0	1633.7	1780.1	1736.1	1676.4	1727.5	1731.8
65°	21479.8	16659.7	3057.0	1474.5	1429.0	1649.3	1874.0	1856.9	1709.1	1760.2	1767.4
67.5°	19421.0	14664.9	2263.6	1406.2	1369.2	1693.4	2044.6	1896.7	1645.1	1682.0	1659.3
70°	15697.1	11626.4	1746.0	1329.4	1308.1	1687.7	2121.4	1872.6	1575.4	1583.9	1522.8
72.5°	10824.5	7928.2	1420.4	1258.3	1219.9	1538.4	2067.4	1812.8	1517.1	1451.7	1370.7
75°	5886.4	4255.6	1207.1	1184.4	1065.0	1350.8	1967.8	1770.2	1464.5	1377.8	1332.3
77.5°	2316.2	1765.9	1047.9	1083.4	931.3	1192.9	1856.9	1689.1	1392.0	1278.2	1255.5
80°	945.5	901.4	868.7	937.0	800.5	1043.6	1723.3	1593.9	1305.3	1185.8	1140.3
82.5°	536.0	560.2	675.4	739.4	649.8	961.2	1659.3	1517.1	1201.5	1062.1	1008.1
85°	274.4	328.4	470.6	530.3	477.7	817.6	1528.5	1328.0	964.0	813.3	817.6
87.5°	132.2	183.4	297.2	332.7	310.0	591.5	1141.7	962.6	750.7	594.3	575.8
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)