

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: P318981

Luminaire Tested: **GAN-SA7D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318981
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-SA7D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45576 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

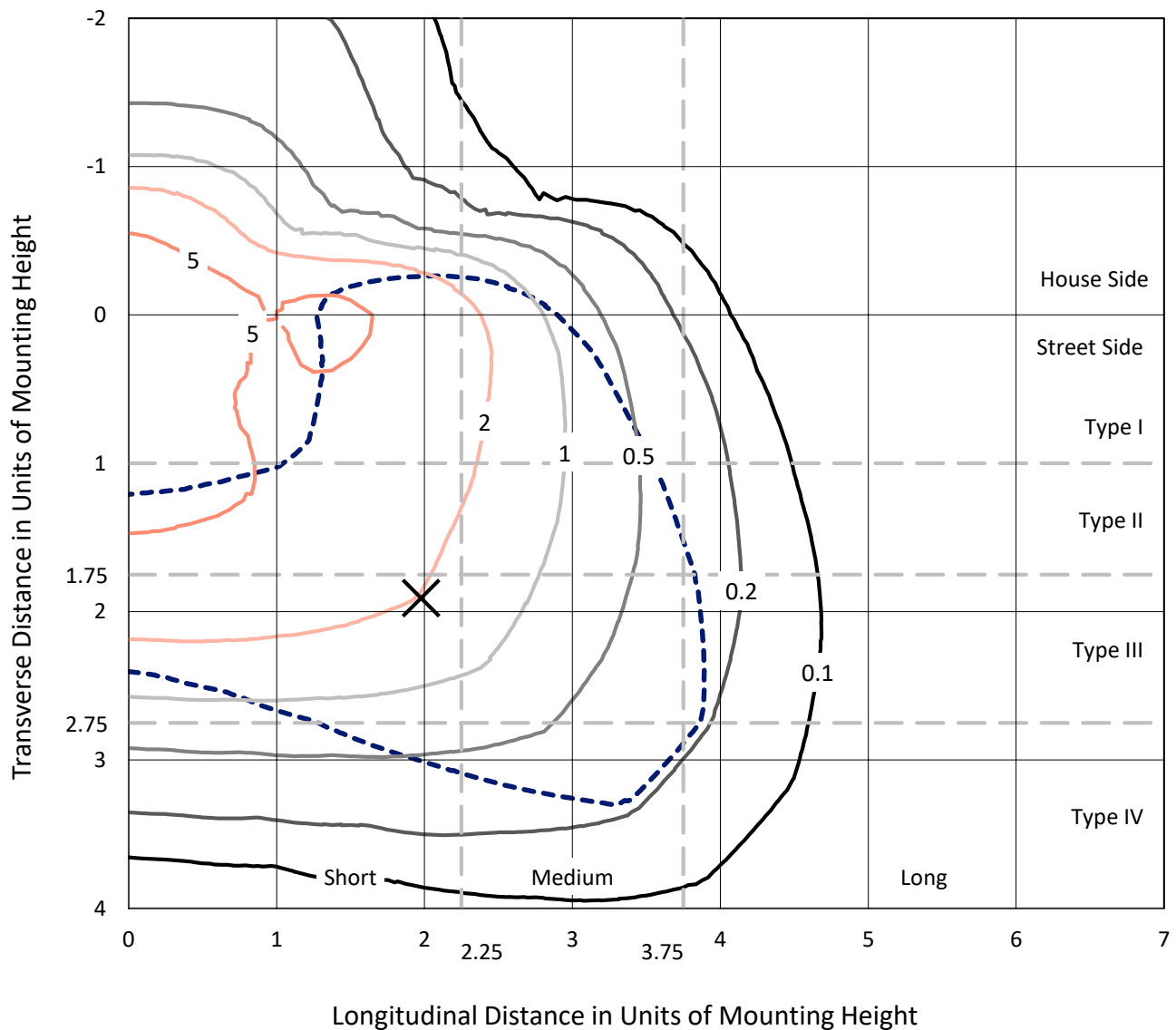
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

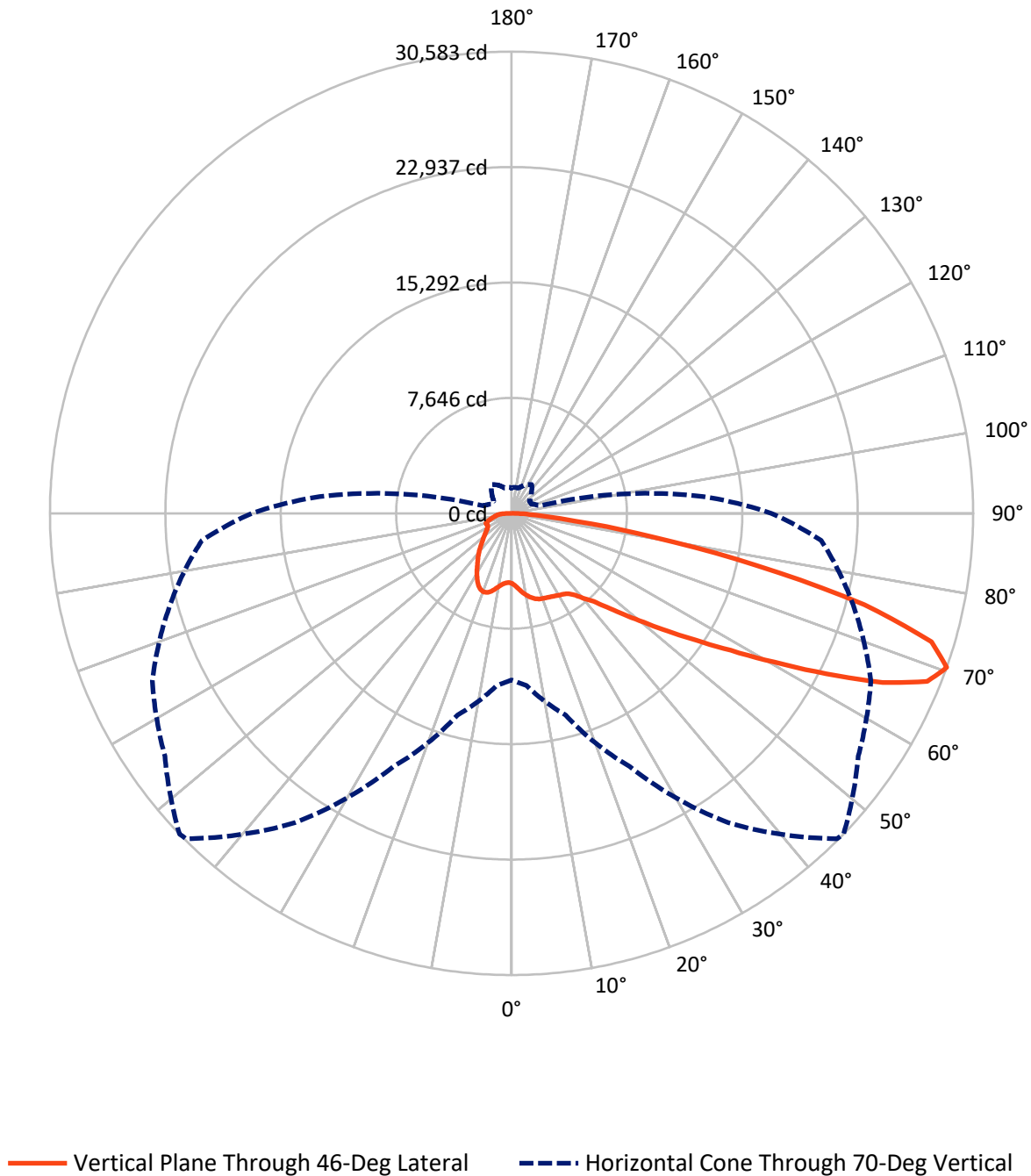
✕ Max cd
 - - - 1/2 Max cd



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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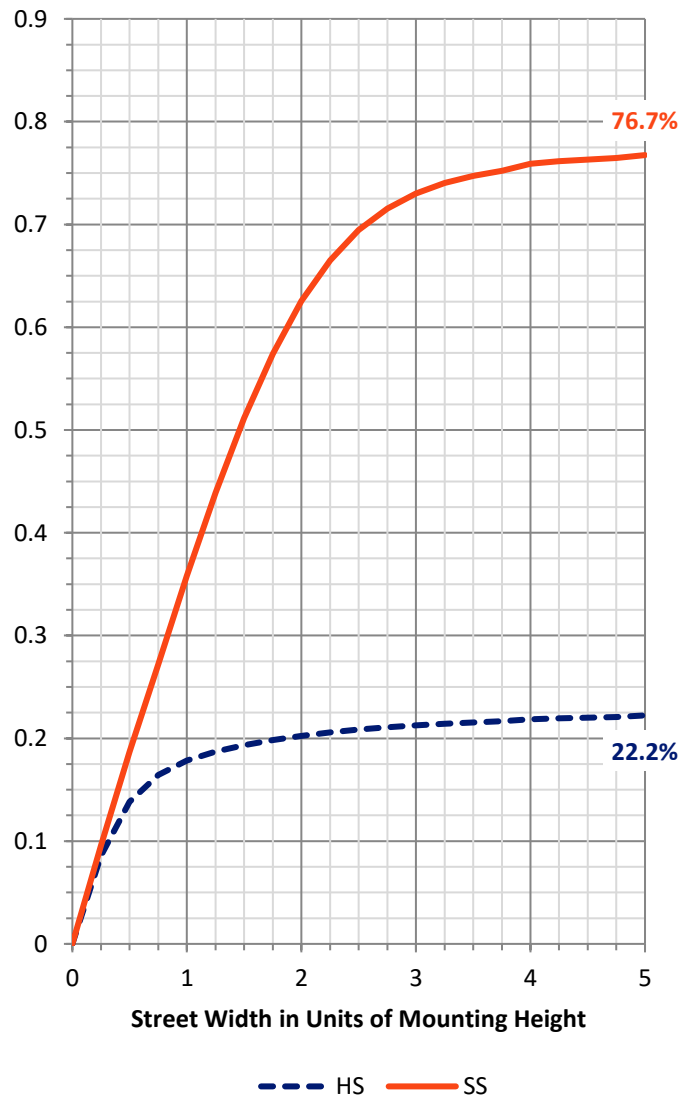
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10445.9	0.0	10445.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35130.1	0.0	35130.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	45576.0	0.0	45576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	1.0
10°-20°	1577.1	3.5
20°-30°	2629.6	5.8
30°-40°	3731.5	8.2
40°-50°	5488.9	12.0
50°-60°	9295.4	20.4
60°-70°	13194.6	29.0
70°-80°	8015.8	17.6
80°-90°	1169.8	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°	45576.0	100.0
0°-180°	45576.0	100.0

Coefficient of Utilization



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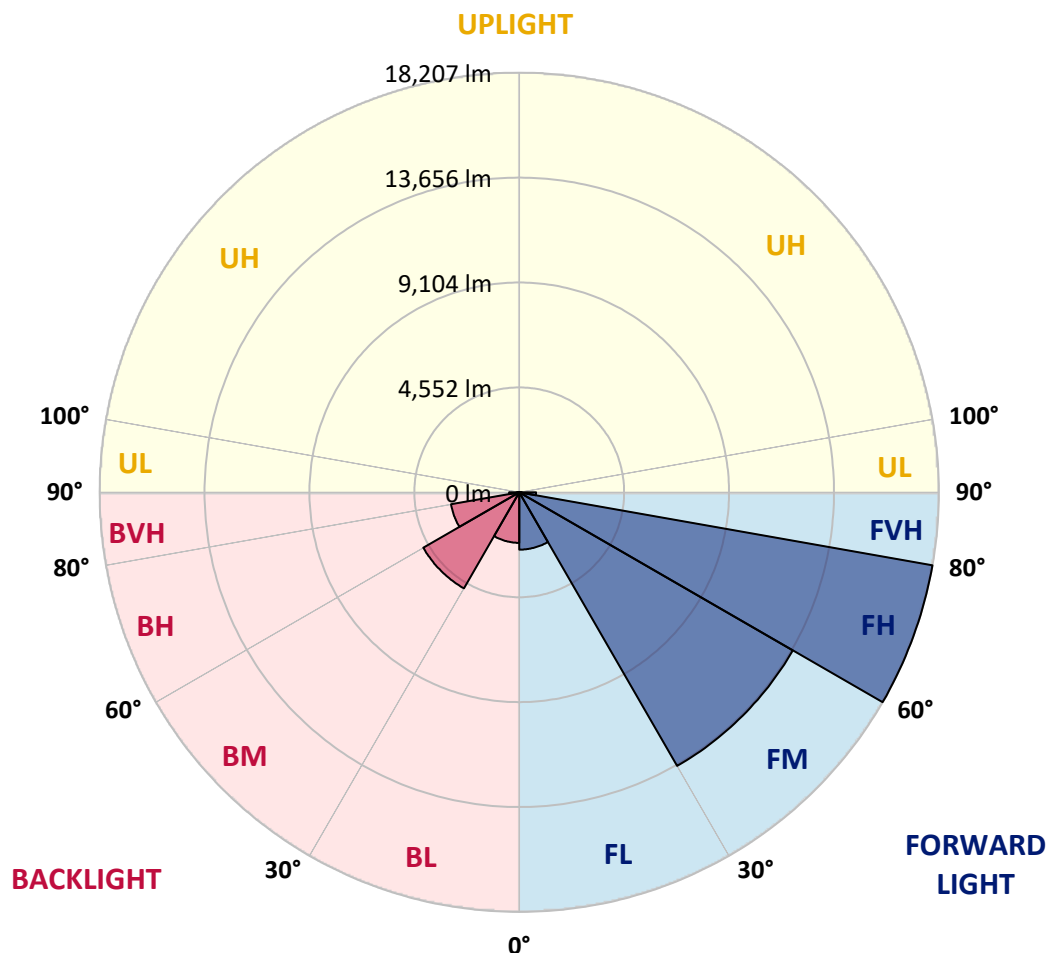
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2486.8	5.5			
FM	(30°-60°)	13707.2	30.1			
FH	(60°-80°)	18207.4	39.9			G5
FVH	(80°-90°)	728.7	1.6			G4/750
BL	(0°-30°)	2193.1	4.8	B3/2500		
BM	(30°-60°)	4808.5	10.6	B3/5000		
BH	(60°-80°)	3003.1	6.6	B4/5000		G4/5000
BVH	(80°-90°)	441.1	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°	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3
2.5°	4875.7	4878.8	4885.1	4869.5	4825.8	4813.3	4808.6	4763.4	4733.8	4690.1	4652.7
5°	5265.6	5268.8	5259.4	5215.7	5119.0	5047.3	5041.0	4938.1	4844.5	4744.7	4669.8
7.5°	5672.7	5677.4	5647.8	5565.1	5429.4	5304.6	5296.8	5156.5	5014.5	4863.2	4750.9
10°	6033.0	6014.3	5965.9	5850.5	5689.9	5537.0	5530.8	5384.2	5220.4	5037.9	4888.2
12.5°	6273.2	6257.6	6195.2	6054.9	5878.6	5738.2	5725.8	5590.1	5431.0	5231.3	5052.0
15°	6405.8	6416.7	6332.5	6173.4	6001.8	5883.3	5872.4	5775.7	5633.7	5432.5	5226.6
17.5°	6422.9	6432.3	6351.2	6193.7	6053.3	5972.2	5967.5	5903.6	5800.6	5607.2	5392.0
20°	6323.1	6329.4	6262.3	6132.8	6040.8	6015.9	6014.3	5986.2	5909.8	5738.2	5529.2
22.5°	6178.1	6182.8	6134.4	6040.8	6009.6	6048.6	6059.5	6048.6	5994.0	5833.4	5636.8
25°	6142.2	6139.1	6089.2	5994.0	6020.5	6103.2	6117.2	6121.9	6084.5	5944.1	5774.1
27.5°	6315.3	6304.4	6209.3	6056.4	6073.6	6173.4	6192.1	6237.3	6213.9	6090.7	5930.1
30°	6816.0	6797.3	6602.3	6293.5	6209.3	6260.7	6284.1	6355.9	6360.6	6257.6	6137.5
32.5°	7661.4	7638.0	7288.6	6736.5	6438.5	6349.6	6371.5	6479.1	6536.8	6457.3	6327.8
35°	8729.8	8703.3	8244.7	7489.8	6822.2	6519.7	6535.2	6621.0	6736.5	6624.2	6452.6
37.5°	9843.4	9779.5	9338.1	8375.7	7432.1	6883.1	6883.1	6894.0	6948.6	6714.6	6599.2
40°	10950.8	10886.9	10487.6	9417.6	8221.3	7455.5	7419.6	7177.9	7134.2	6933.0	6894.0
42.5°	11980.3	11961.5	11726.0	10595.2	9147.8	8018.5	7968.6	7558.4	7567.8	7443.0	7444.6
45°	13075.2	13075.2	12883.3	11783.7	10227.1	8923.2	8873.3	8269.7	8363.2	8305.5	8444.4
47.5°	13968.9	13997.0	13970.5	13022.1	11482.7	10072.7	9982.2	9255.4	9517.4	9715.5	10119.5
50°	14881.3	14925.0	14929.7	14380.7	13000.3	11439.0	11336.1	10564.0	11148.9	11716.7	12510.6
52.5°	16205.5	16303.8	15912.3	15736.1	14859.5	13061.1	12959.8	12247.0	13223.4	14020.4	15388.3
55°	17433.1	17347.3	17068.1	17177.3	16849.7	14907.9	14831.4	14206.0	15534.9	16570.5	18347.0
57.5°	18097.5	18091.3	18372.0	18839.9	18995.9	17185.1	17121.1	16512.8	18141.2	18919.5	21124.9
60°	18877.4	18888.3	19583.9	20646.1	21288.7	20020.6	19992.6	19530.9	20672.6	21112.4	23303.9
62.5°	18986.5	19183.1	20380.9	22208.9	23434.9	23333.5	23395.9	22249.5	22937.3	22862.5	24930.6
65°	17731.0	17989.9	20157.9	22681.5	25568.6	26956.7	27014.4	24983.7	24723.2	24358.2	25512.4
67.5°	15157.4	15541.1	17896.3	21653.7	26272.0	29634.8	29715.9	27103.3	26204.9	24865.1	24111.8
70°	11030.4	11456.2	13827.0	18493.7	25018.0	30491.1	30583.1	28040.7	26261.1	23422.4	20583.7
72.5°	6663.1	6996.9	8951.3	13614.8	21115.6	28931.3	29095.1	26852.2	23976.1	19839.7	15199.5
75°	2926.0	3144.4	4328.2	7845.4	15116.9	23937.1	24141.4	22984.1	19481.0	14418.1	8984.0
77.5°	1246.2	1308.6	1775.0	3408.0	8545.7	16356.8	16637.6	16793.6	13217.1	7845.4	3796.4
80°	776.7	801.7	1004.5	1542.6	3999.1	9186.8	9489.4	9880.9	6563.3	2883.9	1325.8
82.5°	472.6	500.7	667.6	932.7	2082.2	4164.5	4309.5	4585.6	2547.0	1246.2	686.3
85°	283.9	304.1	408.6	589.6	1185.4	1637.7	1636.2	1809.3	1199.4	801.7	361.9
87.5°	135.7	151.3	218.4	305.7	597.4	614.5	575.5	652.0	728.4	525.6	182.5
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°	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3	4643.3
2.5°	4640.2	4633.9	4613.7	4598.1	4595.0	4585.6	4577.8	4582.5	4588.7	4590.3	4590.3
5°	4638.6	4621.5	4595.0	4584.0	4598.1	4616.8	4640.2	4671.4	4690.1	4704.1	4713.5
7.5°	4713.5	4680.7	4651.1	4644.9	4672.9	4722.8	4775.9	4841.4	4886.6	4917.8	4924.1
10°	4838.3	4797.7	4768.1	4774.3	4824.2	4896.0	4970.8	5055.1	5123.7	5165.8	5168.9
12.5°	4981.8	4942.8	4914.7	4941.2	5023.9	5111.2	5189.2	5262.5	5324.9	5367.0	5367.0
15°	5147.1	5119.0	5086.3	5147.1	5259.4	5337.4	5370.1	5406.0	5440.3	5471.5	5465.3
17.5°	5306.2	5279.7	5262.5	5334.3	5451.2	5487.1	5465.3	5438.8	5438.8	5455.9	5459.0
20°	5443.4	5420.0	5431.0	5501.2	5562.0	5524.5	5443.4	5359.2	5324.9	5334.3	5343.6
22.5°	5563.5	5552.6	5585.4	5618.1	5574.5	5443.4	5293.7	5179.8	5137.7	5134.6	5137.7
25°	5703.9	5702.4	5742.9	5683.6	5490.2	5248.5	5047.3	4936.5	4913.1	4931.9	4963.0
27.5°	5878.6	5895.8	5916.0	5699.2	5318.7	4953.7	4749.4	4672.9	4696.3	4741.6	4771.2
30°	6101.6	6148.4	6104.8	5660.2	5072.2	4616.8	4421.8	4400.0	4463.9	4527.9	4559.1
32.5°	6318.4	6391.8	6285.7	5558.9	4754.0	4259.6	4108.3	4102.1	4180.1	4242.5	4286.1
35°	6493.1	6638.2	6421.4	5357.7	4385.9	3930.5	3819.8	3777.7	3805.7	3879.0	3928.9
37.5°	6720.9	6962.6	6515.0	5050.4	3986.7	3659.1	3529.7	3433.0	3408.0	3437.6	3462.6
40°	7137.3	7457.0	6558.6	4621.5	3596.7	3387.7	3256.7	3114.8	3016.5	2944.8	2946.3
42.5°	7817.3	8101.2	6530.6	4100.5	3236.4	3122.6	2974.4	2810.6	2651.5	2489.3	2476.8
45°	8921.6	9058.9	6446.3	3548.4	2919.8	2844.9	2706.1	2542.4	2330.2	2146.2	2129.0
47.5°	10688.8	10384.7	6315.3	3066.4	2640.6	2609.4	2481.5	2292.8	2068.2	1920.0	1907.5
50°	13098.6	12298.4	6251.4	2682.7	2394.2	2403.5	2299.0	2099.4	1887.3	1778.1	1765.6
52.5°	15980.9	14527.3	6374.6	2386.4	2196.1	2228.8	2150.9	1963.7	1785.9	1700.1	1687.6
55°	18970.9	16835.7	6507.2	2171.1	2008.9	2072.9	2046.4	1891.9	1731.3	1651.7	1640.8
57.5°	21530.4	18559.2	6242.0	1996.4	1842.0	1941.9	1965.3	1846.7	1703.2	1631.5	1619.0
60°	23141.6	19253.2	5546.4	1832.7	1709.5	1837.4	1918.5	1834.2	1714.1	1707.9	1698.5
62.5°	23905.9	19192.4	4502.9	1703.2	1626.8	1792.1	1952.8	1904.4	1838.9	1895.1	1899.7
65°	23562.8	18275.3	3353.4	1617.4	1567.5	1809.3	2055.7	2037.0	1874.8	1930.9	1938.7
67.5°	21304.3	16087.0	2483.1	1542.6	1502.0	1857.6	2242.9	2080.7	1804.6	1845.2	1820.2
70°	17219.4	12753.9	1915.3	1458.3	1434.9	1851.4	2327.1	2054.2	1728.2	1737.5	1670.5
72.5°	11874.2	8697.0	1558.2	1380.4	1338.2	1687.6	2267.8	1988.6	1664.2	1592.5	1503.6
75°	6457.3	4668.3	1324.2	1299.3	1168.2	1481.7	2158.7	1941.9	1606.5	1511.4	1461.5
77.5°	2540.8	1937.2	1149.5	1188.5	1021.6	1308.6	2037.0	1853.0	1527.0	1402.2	1377.2
80°	1037.2	988.9	953.0	1027.9	878.1	1144.8	1890.4	1748.5	1431.8	1300.8	1250.9
82.5°	588.0	614.5	740.9	811.1	712.8	1054.4	1820.2	1664.2	1318.0	1165.1	1105.8
85°	301.0	360.3	516.3	581.8	524.1	896.8	1676.7	1456.8	1057.5	892.2	896.8
87.5°	145.1	201.2	326.0	365.0	340.0	648.8	1252.5	1055.9	823.5	652.0	631.7
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)