

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: P317873

Luminaire Tested: **GAN-SA9A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31315 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

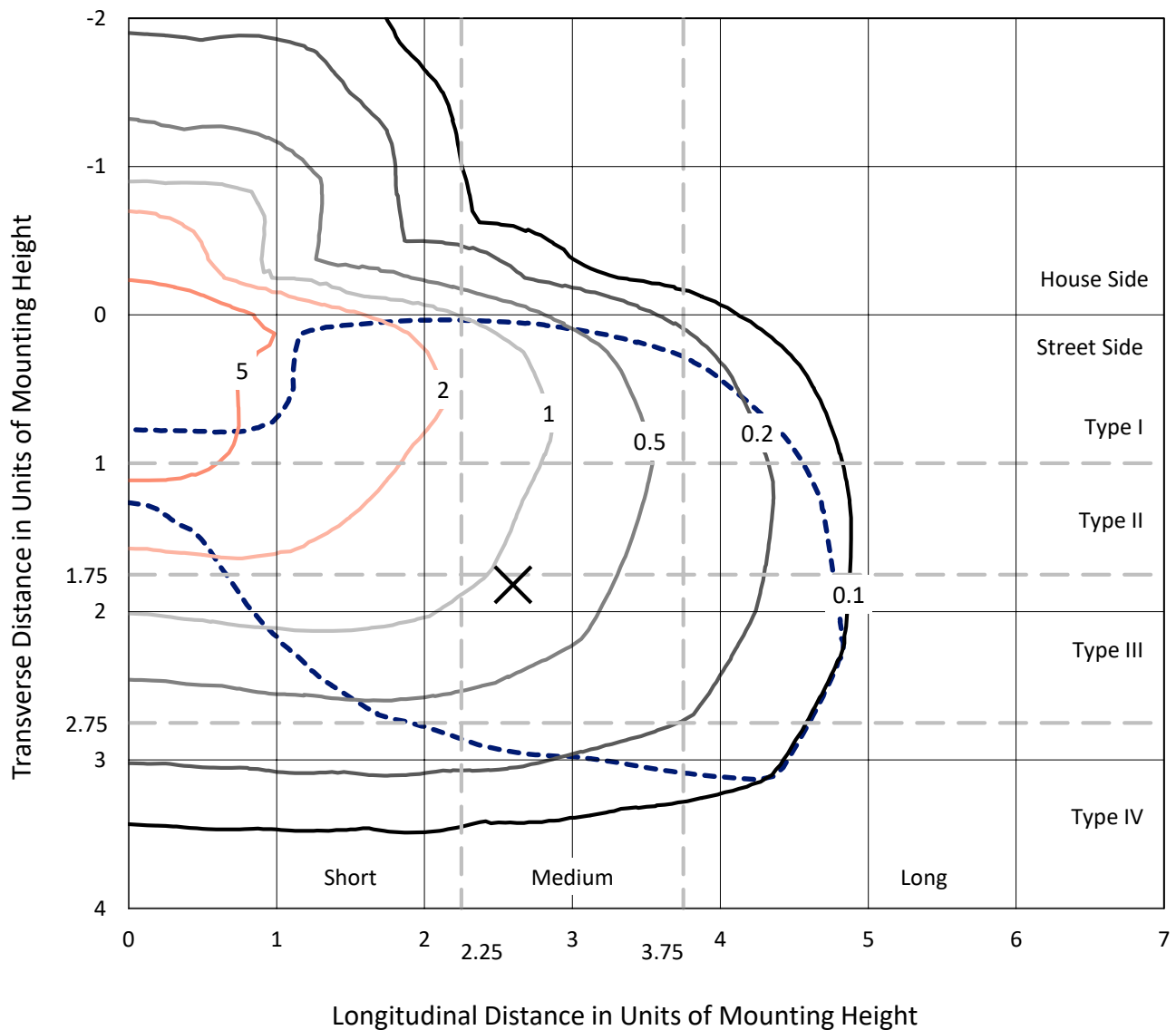
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

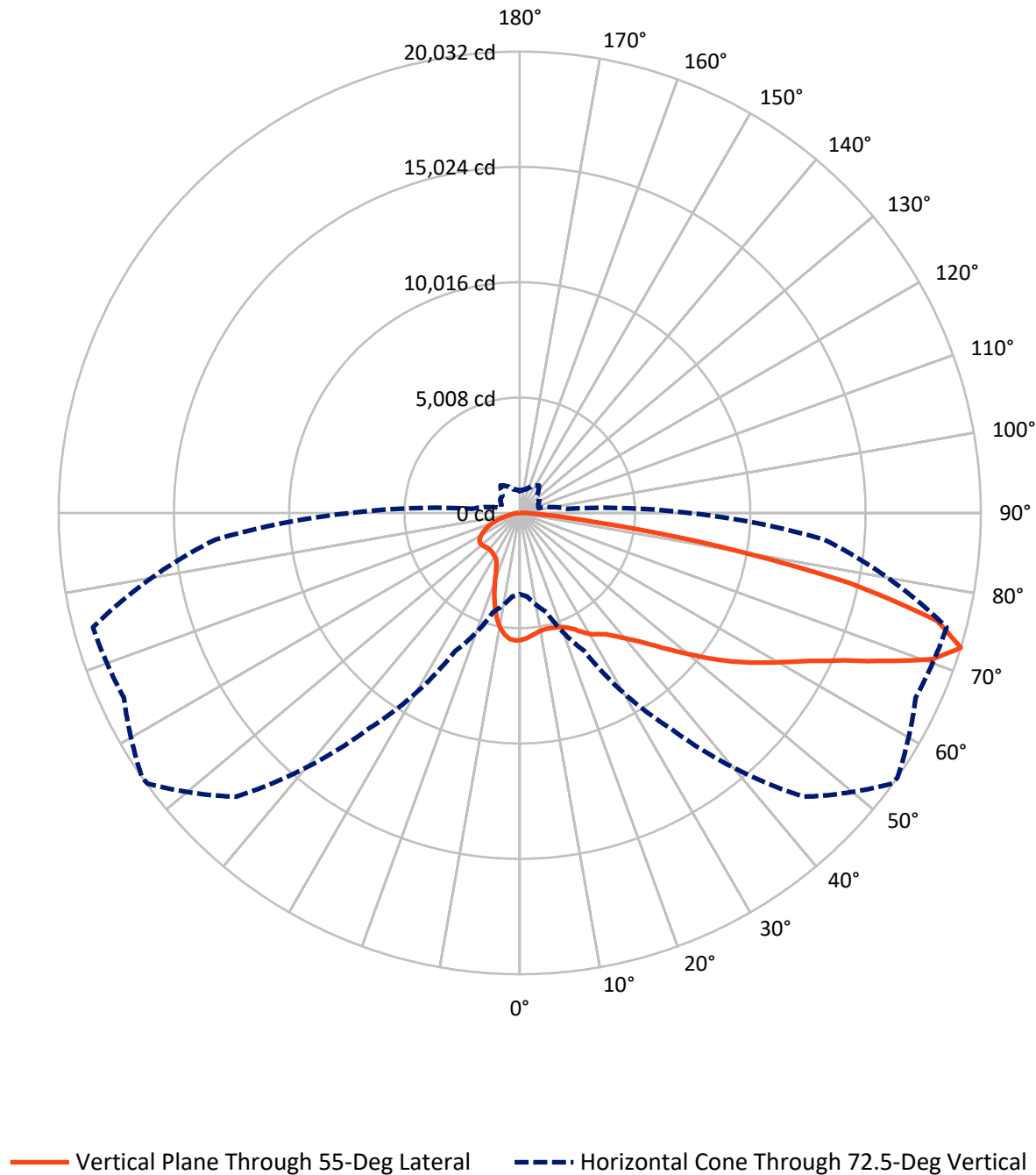
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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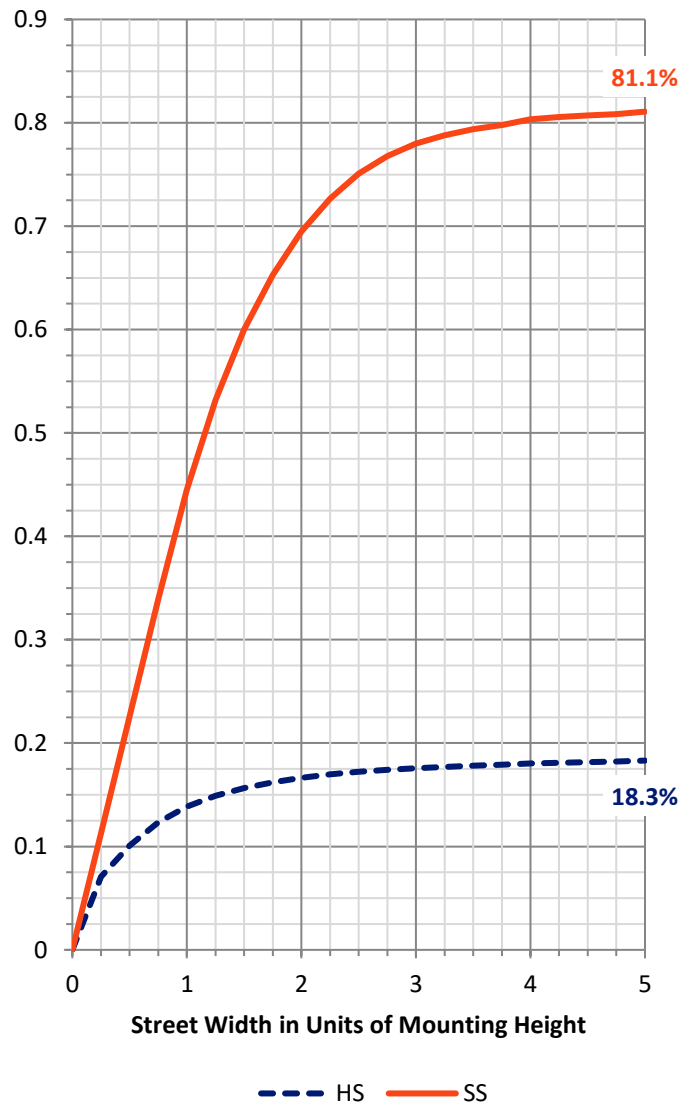
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5820.4	0.0	5820.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25494.6	0.0	25494.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	31315.0	0.0	31315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.8	1.6
10°-20°	1330.6	4.2
20°-30°	2193.9	7.0
30°-40°	3245.3	10.4
40°-50°	4529.8	14.5
50°-60°	5897.9	18.8
60°-70°	7248.3	23.1
70°-80°	5681.8	18.1
80°-90°	687.6	2.2
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°	31315.0	100.0
0°-180°	31315.0	100.0

Coefficient of Utilization



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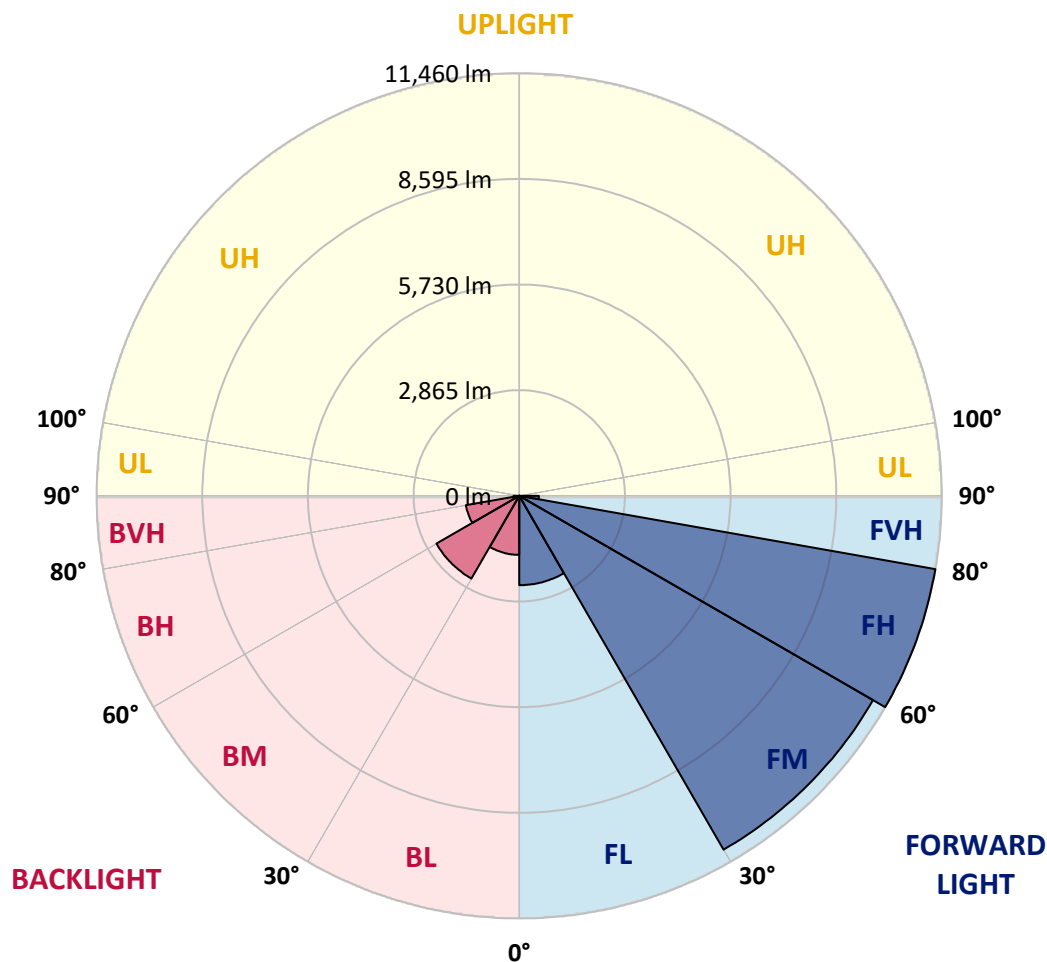
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.9	7.7			
FM	(30°-60°)	11079.9	35.4			
FH	(60°-80°)	11460.2	36.6			G4/12000
FVH	(80°-90°)	531.6	1.7			G4/750
BL	(0°-30°)	1601.4	5.1	B3/2500		
BM	(30°-60°)	2593.1	8.3	B3/5000		
BH	(60°-80°)	1469.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	156.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3
2.5°	5343.5	5330.8	5346.7	5368.9	5393.2	5426.0	5445.0	5453.5	5486.3	5499.0	5526.5
5°	5096.0	5089.6	5116.1	5154.2	5208.1	5284.3	5345.6	5357.2	5444.0	5505.3	5561.4
7.5°	4916.2	4916.2	4946.8	4992.3	5052.6	5155.2	5241.9	5257.8	5404.8	5537.0	5640.7
10°	4773.4	4778.7	4814.6	4868.6	4939.4	5048.4	5163.7	5181.7	5394.3	5611.1	5776.1
12.5°	4678.2	4690.9	4723.7	4772.3	4860.1	4992.3	5138.3	5162.6	5416.5	5716.9	5939.0
15°	4738.5	4759.6	4762.8	4782.9	4831.6	4975.4	5153.1	5178.5	5464.1	5824.7	6124.1
17.5°	5002.9	5010.3	4977.5	4935.2	4911.9	5004.0	5197.5	5224.0	5521.2	5931.6	6301.8
20°	5404.8	5400.6	5329.7	5215.5	5097.0	5111.8	5270.5	5298.0	5598.4	6025.7	6479.5
22.5°	5912.5	5897.7	5788.8	5578.3	5376.3	5291.7	5398.5	5421.8	5714.7	6160.0	6669.8
25°	6528.1	6495.3	6351.5	6069.1	5771.9	5554.0	5591.0	5613.2	5884.0	6310.2	6844.4
27.5°	7177.5	7144.7	6961.8	6620.1	6224.5	5885.0	5856.5	5875.5	6076.5	6421.3	6973.4
30°	7856.6	7821.7	7654.6	7271.7	6704.7	6227.7	6104.0	6111.4	6211.9	6481.6	7079.2
32.5°	8538.8	8506.0	8318.8	7874.6	7226.2	6595.8	6282.7	6273.2	6293.3	6544.0	7198.7
35°	9230.5	9243.2	9024.3	8532.4	7803.7	7005.1	6494.3	6474.2	6429.7	6672.0	7367.9
37.5°	9970.9	9962.4	9679.0	9164.9	8407.6	7449.4	6797.8	6794.6	6641.3	6914.2	7633.4
40°	10465.9	10471.2	10298.8	9812.3	9017.9	7941.2	7187.0	7179.6	6978.7	7277.0	7981.4
42.5°	10659.5	10694.4	10738.8	10429.9	9656.8	8511.3	7651.4	7640.8	7449.4	7797.3	8390.7
45°	10673.2	10743.0	11018.0	10978.9	10304.1	9163.9	8244.7	8215.1	8077.6	8489.1	8879.4
47.5°	10554.8	10626.7	11083.6	11305.7	10882.6	9852.4	8938.6	8915.3	8796.9	9354.3	9408.2
50°	10295.6	10364.4	10948.2	11465.4	11358.6	10514.6	9738.2	9676.9	9613.4	10353.8	10013.2
52.5°	9810.1	9942.3	10767.4	11503.5	11643.1	11102.6	10579.1	10538.9	10573.8	11408.3	10619.3
55°	8660.4	8808.5	10300.9	11471.8	11853.6	11596.6	11420.0	11417.8	11598.7	12514.7	11269.8
57.5°	8016.3	8121.0	9351.1	11417.8	12103.2	12087.4	12252.4	12272.5	12624.7	13719.4	11950.9
60°	7652.4	7762.4	8869.8	11217.9	12490.3	12722.0	13101.7	13141.9	13667.6	15053.1	12770.6
62.5°	7321.4	7442.0	8571.6	10810.7	12946.2	13629.5	14119.2	14155.2	14771.8	16423.9	13562.8
65°	6755.5	6892.0	8134.7	10543.1	13360.8	14813.0	15412.8	15437.1	16040.0	17860.3	14168.9
67.5°	5955.9	6080.7	7310.8	9951.9	13667.6	16250.5	17132.6	17146.3	17297.6	18874.6	14478.8
70°	5021.9	5069.5	6136.8	8731.3	13304.8	17594.8	19017.4	19020.6	18444.1	19524.0	14428.0
72.5°	3528.5	3640.6	4455.0	6609.5	11433.7	17430.8	19995.8	20031.7	18977.2	19196.1	13275.2
75°	2164.0	2282.5	2794.4	4005.5	7253.7	13708.8	18474.8	18724.4	17977.7	17115.6	10844.6
77.5°	1446.9	1491.4	1823.5	2335.4	3286.3	7887.2	14203.8	14673.4	14934.7	12481.9	6935.3
80°	807.0	891.6	1208.9	1451.2	1461.7	3134.0	8516.6	8626.6	8309.3	4970.1	2139.7
82.5°	427.3	473.8	807.0	852.5	797.5	1049.2	3174.1	3177.3	2654.8	1332.7	635.7
85°	331.1	370.2	553.2	520.4	407.2	465.4	1047.1	1104.2	903.3	545.8	207.3
87.5°	165.0	205.2	375.5	330.0	159.7	133.3	374.4	399.8	356.4	213.7	75.1
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°	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3
2.5°	5537.0	5546.6	5558.2	5545.5	5541.3	5524.3	5495.8	5489.4	5474.6	5475.7	5484.2
5°	5585.7	5601.6	5595.2	5546.6	5488.4	5406.9	5322.3	5250.4	5202.8	5199.6	5196.5
7.5°	5678.8	5689.4	5639.6	5501.1	5338.2	5149.9	4972.2	4816.8	4722.6	4699.3	4694.1
10°	5824.7	5822.6	5686.2	5406.9	5082.2	4745.9	4460.3	4244.5	4118.7	4081.7	4072.1
12.5°	5987.6	5963.3	5702.0	5235.6	4720.5	4254.1	3892.3	3652.2	3521.1	3478.8	3468.2
15°	6155.8	6095.5	5662.9	4979.6	4276.3	3724.2	3344.4	3122.3	3051.5	3028.2	3024.0
17.5°	6312.3	6196.0	5550.8	4632.7	3769.6	3196.4	2900.2	2811.4	2828.3	2859.0	2860.0
20°	6465.7	6263.7	5371.0	4194.8	3235.5	2761.6	2661.2	2726.7	2807.1	2869.5	2878.0
22.5°	6617.0	6311.3	5139.3	3689.2	2757.4	2517.3	2588.2	2707.7	2799.7	2867.4	2879.1
25°	6743.9	6322.9	4819.9	3149.8	2425.3	2425.3	2553.3	2666.5	2757.4	2824.1	2835.7
27.5°	6790.4	6244.6	4369.3	2650.6	2258.2	2383.0	2504.6	2598.8	2676.0	2746.8	2759.5
30°	6808.4	6099.7	3849.0	2249.7	2189.4	2337.5	2439.0	2519.4	2592.4	2659.0	2670.7
32.5°	6811.6	5925.2	3296.8	2022.3	2141.8	2289.9	2357.6	2428.5	2506.7	2533.2	2537.4
35°	6831.7	5719.0	2715.1	1906.0	2097.4	2245.5	2299.4	2350.2	2223.3	2232.8	2241.3
37.5°	6889.8	5514.8	2228.6	1840.4	2068.9	2222.2	2286.7	2102.7	2003.3	1980.0	1976.8
40°	6998.8	5296.9	1867.9	1787.5	2058.3	2233.9	2205.3	1963.1	1791.7	1663.8	1644.7
42.5°	7150.0	5062.1	1637.3	1752.6	2065.7	2289.9	2092.1	1828.8	1544.2	1461.7	1451.2
45°	7320.3	4815.7	1512.5	1728.3	2091.1	2333.3	2068.9	1650.0	1428.9	1366.5	1361.3
47.5°	7485.3	4514.2	1448.0	1717.7	2126.0	2298.4	1970.5	1595.0	1373.9	1341.2	1344.3
50°	7674.6	4242.4	1408.9	1706.1	2156.6	2276.2	1859.4	1566.4	1352.8	1393.0	1435.3
52.5°	7834.4	3961.1	1373.9	1682.8	2168.3	2237.0	1830.9	1571.7	1352.8	1430.0	1470.2
55°	8023.7	3748.5	1333.8	1634.1	2146.1	2126.0	1810.8	1603.5	1368.7	1320.0	1324.2
57.5°	8268.0	3678.7	1289.3	1558.0	2072.0	1964.1	1801.3	1634.1	1359.1	1328.5	1339.0
60°	8606.5	3752.7	1271.4	1458.6	1956.7	1837.2	1802.3	1618.3	1292.5	1239.6	1240.7
62.5°	8929.1	3835.2	1270.3	1396.2	1815.0	1724.0	1778.0	1566.4	1258.7	1228.0	1239.6
65°	9034.8	3751.7	1219.5	1326.4	1655.3	1588.7	1733.6	1511.4	1233.3	1186.7	1184.6
67.5°	8893.1	3492.5	1116.9	1213.2	1472.3	1431.1	1675.4	1445.9	1193.1	1155.0	1148.7
70°	8472.2	2914.0	990.0	1064.0	1263.9	1253.4	1583.4	1369.7	1139.1	1106.4	1078.9
72.5°	7339.4	2076.3	834.5	885.3	1029.1	1063.0	1456.4	1270.3	1063.0	992.1	949.8
75°	6027.8	1536.8	685.4	696.0	781.6	873.7	1281.9	1153.9	973.1	852.5	819.7
77.5°	3691.4	940.3	545.8	550.0	560.6	697.0	1055.6	1023.9	858.8	710.8	687.5
80°	1195.2	513.0	394.5	414.6	382.9	510.9	816.5	871.5	737.2	594.4	569.0
82.5°	454.8	299.3	266.5	280.3	265.5	342.7	595.5	698.1	603.9	488.7	397.7
85°	220.0	169.2	157.6	176.6	163.9	175.6	380.8	514.0	458.0	318.4	296.2
87.5°	78.3	75.1	60.3	81.4	69.8	62.4	116.3	259.1	302.5	218.9	195.7
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)