

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: P318982

Luminaire Tested: **GAN-SA8D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318982
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-SA8D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 51641 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

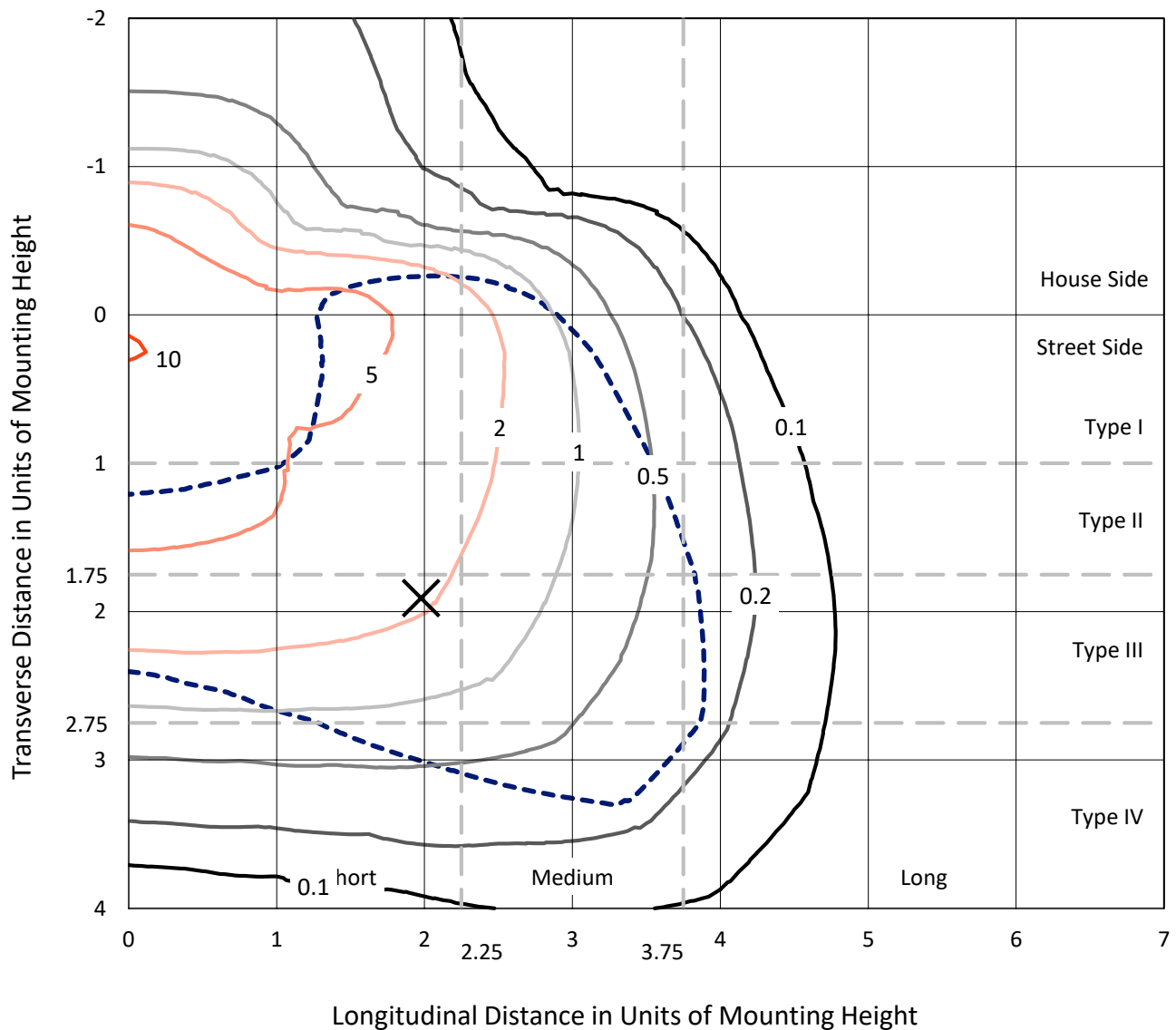
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

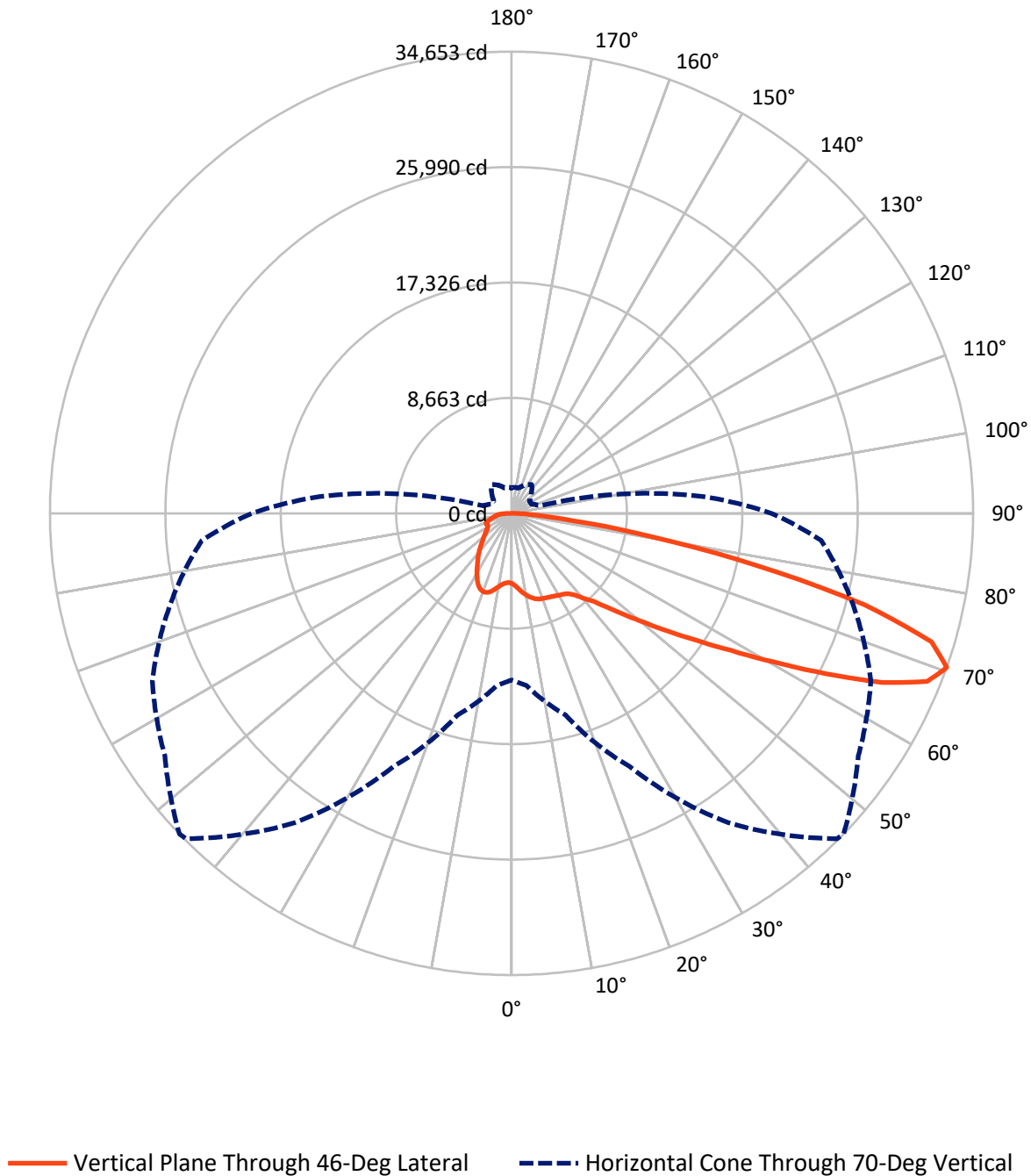
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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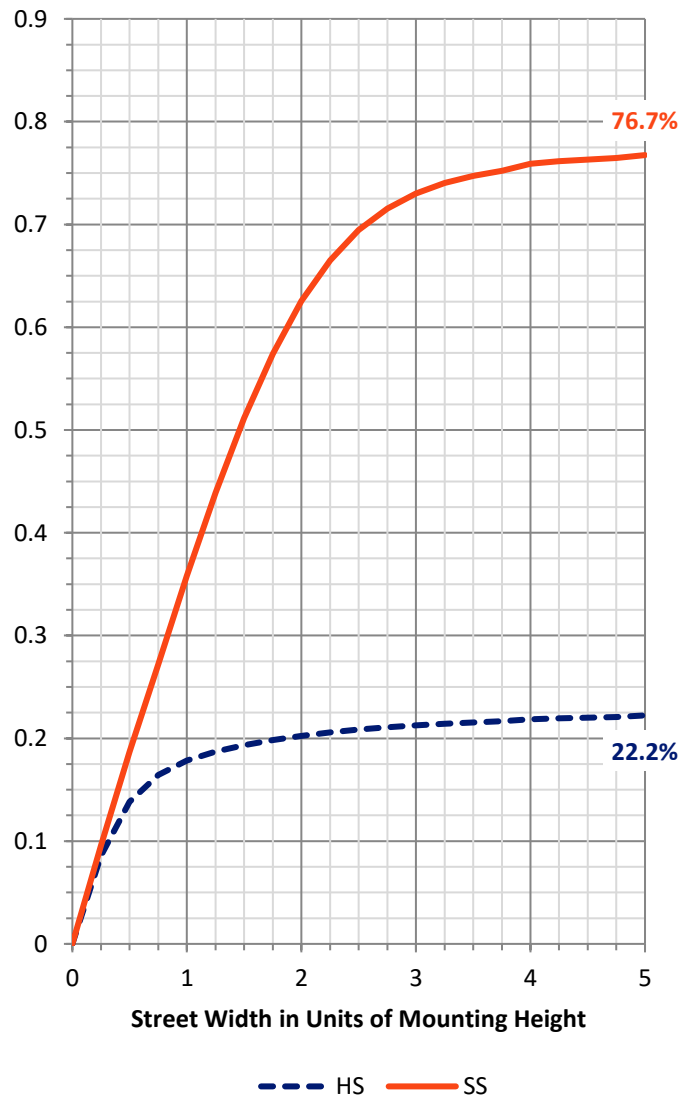
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11836.0	0.0	11836.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39805.0	0.0	39805.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	51641.0	0.0	51641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.3	1.0
10°-20°	1786.9	3.5
20°-30°	2979.5	5.8
30°-40°	4228.1	8.2
40°-50°	6219.3	12.0
50°-60°	10532.3	20.4
60°-70°	14950.5	29.0
70°-80°	9082.5	17.6
80°-90°	1325.5	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°	51641.0	100.0
0°-180°	51641.0	100.0

Coefficient of Utilization



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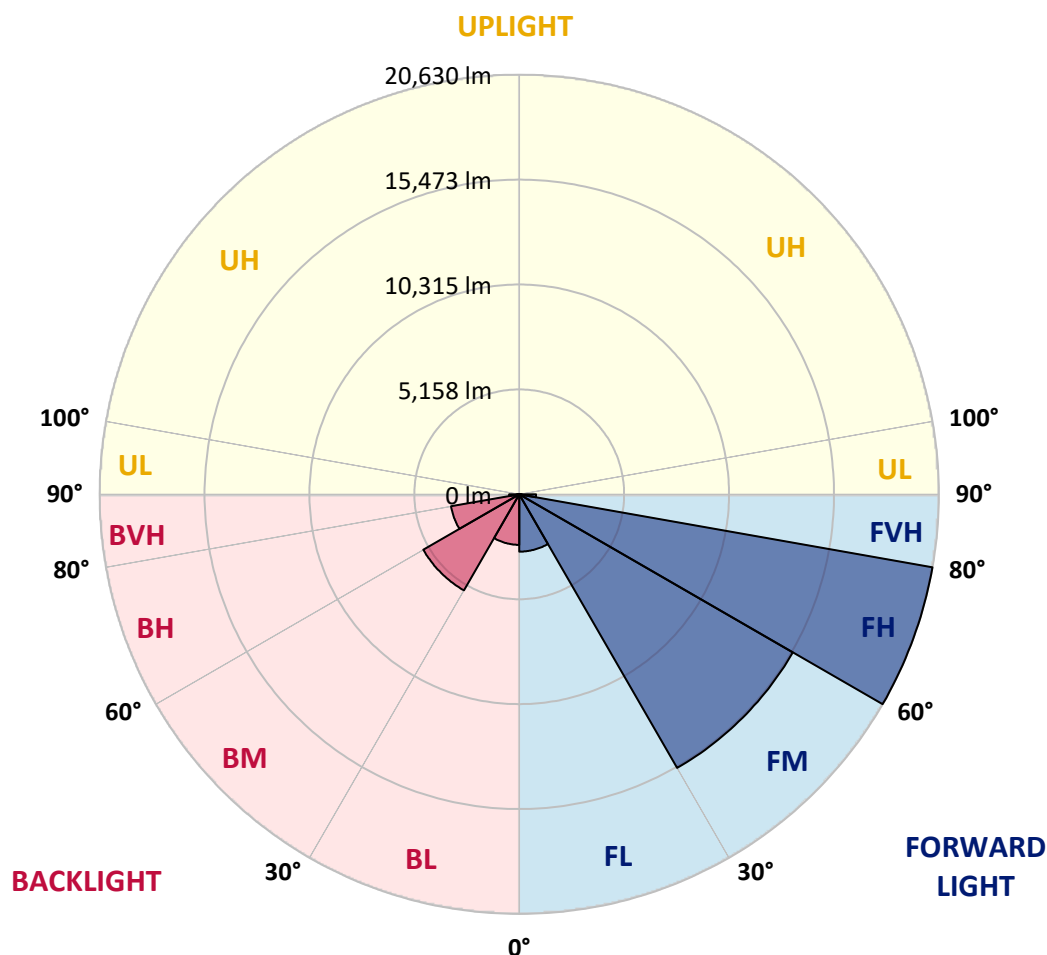
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2817.8	5.5			
FM	(30°-60°)	15531.3	30.1			
FH	(60°-80°)	20630.3	39.9			G5
FVH	(80°-90°)	825.7	1.6			G5
BL	(0°-30°)	2485.0	4.8	B3/2500		
BM	(30°-60°)	5448.4	10.6	B4/8500		
BH	(60°-80°)	3402.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	499.8	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°	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2
2.5°	5524.5	5528.1	5535.1	5517.5	5468.0	5453.8	5448.5	5397.3	5363.7	5314.2	5271.8
5°	5966.4	5969.9	5959.3	5909.8	5800.2	5718.9	5711.9	5595.2	5489.2	5376.1	5291.3
7.5°	6427.6	6432.9	6399.3	6305.7	6151.9	6010.5	6001.7	5842.6	5681.8	5510.4	5383.1
10°	6835.9	6814.7	6759.9	6629.1	6447.1	6273.9	6266.8	6100.7	5915.1	5708.3	5538.7
12.5°	7108.0	7090.3	7019.7	6860.6	6660.9	6501.8	6487.7	6333.9	6153.7	5927.5	5724.2
15°	7258.2	7270.6	7175.2	6994.9	6800.5	6666.2	6653.8	6544.3	6383.4	6155.5	5922.2
17.5°	7277.7	7288.3	7196.4	7017.9	6858.8	6766.9	6761.6	6689.2	6572.5	6353.4	6109.5
20°	7164.6	7171.6	7095.6	6949.0	6844.7	6816.4	6814.7	6782.8	6696.2	6501.8	6265.0
22.5°	7000.2	7005.5	6950.7	6844.7	6809.3	6853.5	6865.9	6853.5	6791.7	6609.6	6387.0
25°	6959.6	6956.0	6899.5	6791.7	6821.7	6915.4	6931.3	6936.6	6894.2	6735.1	6542.5
27.5°	7155.7	7143.4	7035.6	6862.4	6881.8	6994.9	7016.1	7067.4	7040.9	6901.2	6719.2
30°	7723.0	7701.8	7480.9	7131.0	7035.6	7093.9	7120.4	7201.7	7207.0	7090.3	6954.3
32.5°	8680.9	8654.4	8258.5	7632.9	7295.4	7194.6	7219.4	7341.3	7406.7	7316.6	7169.9
35°	9891.5	9861.4	9341.9	8486.5	7730.1	7387.3	7404.9	7502.1	7632.9	7505.7	7311.3
37.5°	11153.3	11080.9	10580.7	9490.3	8421.1	7799.0	7799.0	7811.4	7873.3	7608.2	7477.4
40°	12408.1	12335.6	11883.2	10670.9	9315.4	8447.6	8407.0	8133.0	8083.6	7855.6	7811.4
42.5°	13574.5	13553.3	13286.4	12005.2	10365.1	9085.6	9029.1	8564.3	8574.9	8433.5	8435.3
45°	14815.1	14815.1	14597.8	13351.8	11588.1	10110.6	10054.1	9370.1	9476.2	9410.8	9568.1
47.5°	15827.8	15859.6	15829.6	14755.1	13010.8	11413.1	11310.6	10487.1	10784.0	11008.4	11466.1
50°	16861.7	16911.1	16916.5	16294.4	14730.3	12961.3	12844.6	11969.8	12632.6	13275.8	14175.4
52.5°	18362.1	18473.4	18029.8	17830.1	16836.9	14799.2	14684.4	13876.7	14983.0	15886.1	17436.0
55°	19752.9	19655.7	19339.4	19463.1	19092.0	16891.7	16805.1	16096.4	17602.2	18775.6	20788.6
57.5°	20505.8	20498.7	20816.8	21347.0	21523.8	19471.9	19399.5	18710.2	20555.3	21437.2	23936.1
60°	21389.4	21401.8	22190.0	23393.6	24121.7	22684.9	22653.1	22129.9	23423.6	23922.0	26405.0
62.5°	21513.2	21735.8	23093.1	25164.4	26553.5	26438.6	26509.3	25210.3	25989.7	25904.9	28248.3
65°	20090.5	20383.9	22840.4	25699.9	28971.1	30544.0	30609.4	28308.4	28013.2	27599.7	28907.5
67.5°	17174.5	17609.2	20277.8	24535.2	29768.1	33578.4	33670.3	30710.1	29692.2	28174.1	27320.5
70°	12498.2	12980.7	15667.0	20954.7	28347.2	34548.7	34652.9	31772.2	29755.8	26539.3	23322.9
72.5°	7549.8	7928.0	10142.4	15426.6	23925.5	32781.4	32966.9	30425.6	27166.7	22479.9	17222.2
75°	3315.4	3562.8	4904.2	8889.4	17128.5	27122.5	27354.0	26042.7	22073.4	16336.8	10179.6
77.5°	1412.1	1482.8	2011.2	3861.5	9683.0	18533.5	18851.6	19028.4	14976.0	8889.4	4301.6
80°	880.1	908.4	1138.1	1747.8	4531.3	10409.3	10752.2	11195.7	7436.7	3267.7	1502.2
82.5°	535.5	567.3	756.4	1056.8	2359.3	4718.7	4883.0	5195.8	2886.0	1412.1	777.6
85°	321.6	344.6	463.0	668.0	1343.1	1855.6	1853.9	2050.1	1359.0	908.4	410.0
87.5°	153.8	171.4	247.4	346.4	676.9	696.3	652.1	738.7	825.3	595.6	206.8
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°	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2
2.5°	5257.7	5250.6	5227.6	5210.0	5206.4	5195.8	5187.0	5192.3	5199.4	5201.1	5201.1
5°	5255.9	5236.5	5206.4	5194.1	5210.0	5231.2	5257.7	5293.0	5314.2	5330.1	5340.7
7.5°	5340.7	5303.6	5270.0	5263.0	5294.8	5351.3	5411.4	5485.7	5536.9	5572.2	5579.3
10°	5482.1	5436.2	5402.6	5409.7	5466.2	5547.5	5632.3	5727.8	5805.5	5853.2	5856.8
12.5°	5644.7	5600.5	5568.7	5598.8	5692.4	5791.4	5879.8	5962.8	6033.5	6081.2	6081.2
15°	5832.0	5800.2	5763.1	5832.0	5959.3	6047.6	6084.8	6125.4	6164.3	6199.6	6192.6
17.5°	6012.3	5982.3	5962.8	6044.1	6176.7	6217.3	6192.6	6162.5	6162.5	6182.0	6185.5
20°	6167.8	6141.3	6153.7	6233.2	6302.1	6259.7	6167.8	6072.4	6033.5	6044.1	6054.7
22.5°	6303.9	6291.5	6328.6	6365.8	6316.3	6167.8	5998.2	5869.2	5821.4	5817.9	5821.4
25°	6463.0	6461.2	6507.1	6440.0	6220.8	5946.9	5718.9	5593.5	5566.9	5588.2	5623.5
27.5°	6660.9	6680.3	6703.3	6457.7	6026.4	5612.9	5381.4	5294.8	5321.3	5372.5	5406.1
30°	6913.6	6966.6	6917.2	6413.5	5747.2	5231.2	5010.3	4985.5	5058.0	5130.4	5165.8
32.5°	7159.3	7242.3	7122.2	6298.6	5386.7	4826.5	4655.0	4648.0	4736.3	4807.0	4856.5
35°	7357.2	7521.6	7275.9	6070.6	4969.6	4453.6	4328.1	4280.4	4312.2	4395.2	4451.8
37.5°	7615.2	7889.2	7381.9	5722.5	4517.2	4146.1	3999.4	3889.8	3861.5	3895.1	3923.4
40°	8087.1	8449.4	7431.4	5236.5	4075.4	3838.5	3690.1	3529.3	3417.9	3336.6	3338.4
42.5°	8857.6	9179.3	7399.6	4646.2	3667.1	3538.1	3370.2	3184.6	3004.4	2820.6	2806.4
45°	10108.9	10264.4	7304.2	4020.6	3308.4	3223.5	3066.2	2880.7	2640.3	2431.8	2412.3
47.5°	12111.2	11766.6	7155.7	3474.5	2992.0	2956.7	2811.8	2597.9	2343.4	2175.5	2161.4
50°	14841.7	13935.0	7083.3	3039.7	2712.8	2723.4	2605.0	2378.8	2138.4	2014.7	2000.6
52.5°	18107.6	16460.5	7222.9	2703.9	2488.3	2525.5	2437.1	2225.0	2023.5	1926.3	1912.2
55°	21495.5	19076.1	7373.1	2460.1	2276.3	2348.7	2318.7	2143.7	1961.7	1871.6	1859.2
57.5°	24395.6	21028.9	7072.7	2262.1	2087.2	2200.3	2226.8	2092.5	1929.9	1848.6	1834.4
60°	26221.2	21815.4	6284.5	2076.6	1936.9	2081.9	2173.8	2078.3	1942.2	1935.2	1924.6
62.5°	27087.2	21746.4	5102.2	1929.9	1843.3	2030.6	2212.6	2157.9	2083.6	2147.3	2152.6
65°	26698.4	20707.3	3799.7	1832.7	1776.1	2050.1	2329.3	2308.1	2124.3	2187.9	2196.7
67.5°	24139.3	18227.8	2813.5	1747.8	1701.9	2104.8	2541.4	2357.6	2044.7	2090.7	2062.4
70°	19510.8	14451.1	2170.2	1652.4	1625.9	2097.8	2636.8	2327.5	1958.2	1968.8	1892.8
72.5°	13454.3	9854.4	1765.5	1564.0	1516.3	1912.2	2569.6	2253.3	1885.7	1804.4	1703.7
75°	7316.6	5289.5	1500.4	1472.1	1323.7	1678.9	2445.9	2200.3	1820.3	1712.5	1655.9
77.5°	2878.9	2195.0	1302.5	1346.7	1157.6	1482.8	2308.1	2099.5	1730.2	1588.8	1560.5
80°	1175.2	1120.5	1079.8	1164.6	995.0	1297.2	2141.9	1981.1	1622.4	1473.9	1417.4
82.5°	666.3	696.3	839.5	919.0	807.6	1194.7	2062.4	1885.7	1493.4	1320.2	1253.0
85°	341.1	408.2	585.0	659.2	593.8	1016.2	1899.8	1650.6	1198.2	1010.9	1016.2
87.5°	164.4	228.0	369.4	413.5	385.3	735.2	1419.1	1196.5	933.1	738.7	715.8
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)