

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: P318972

Luminaire Tested: **GAN-SA8C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318972
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-SA8C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 47076 lumens
Efficiency: N/A
Efficacy: 105.8 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): 445
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

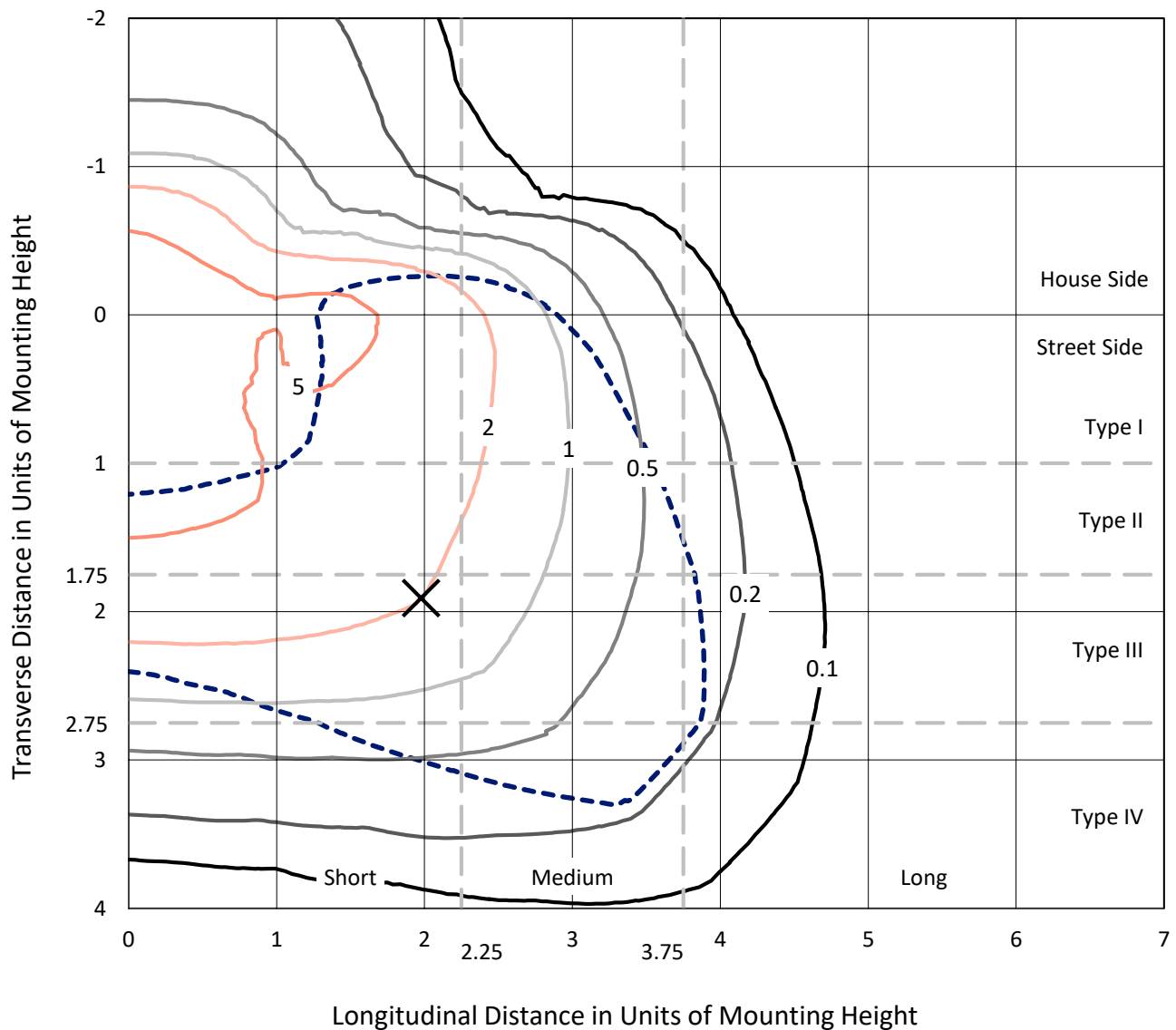


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Iso-Footcandle Lines of Horizontal Illumination

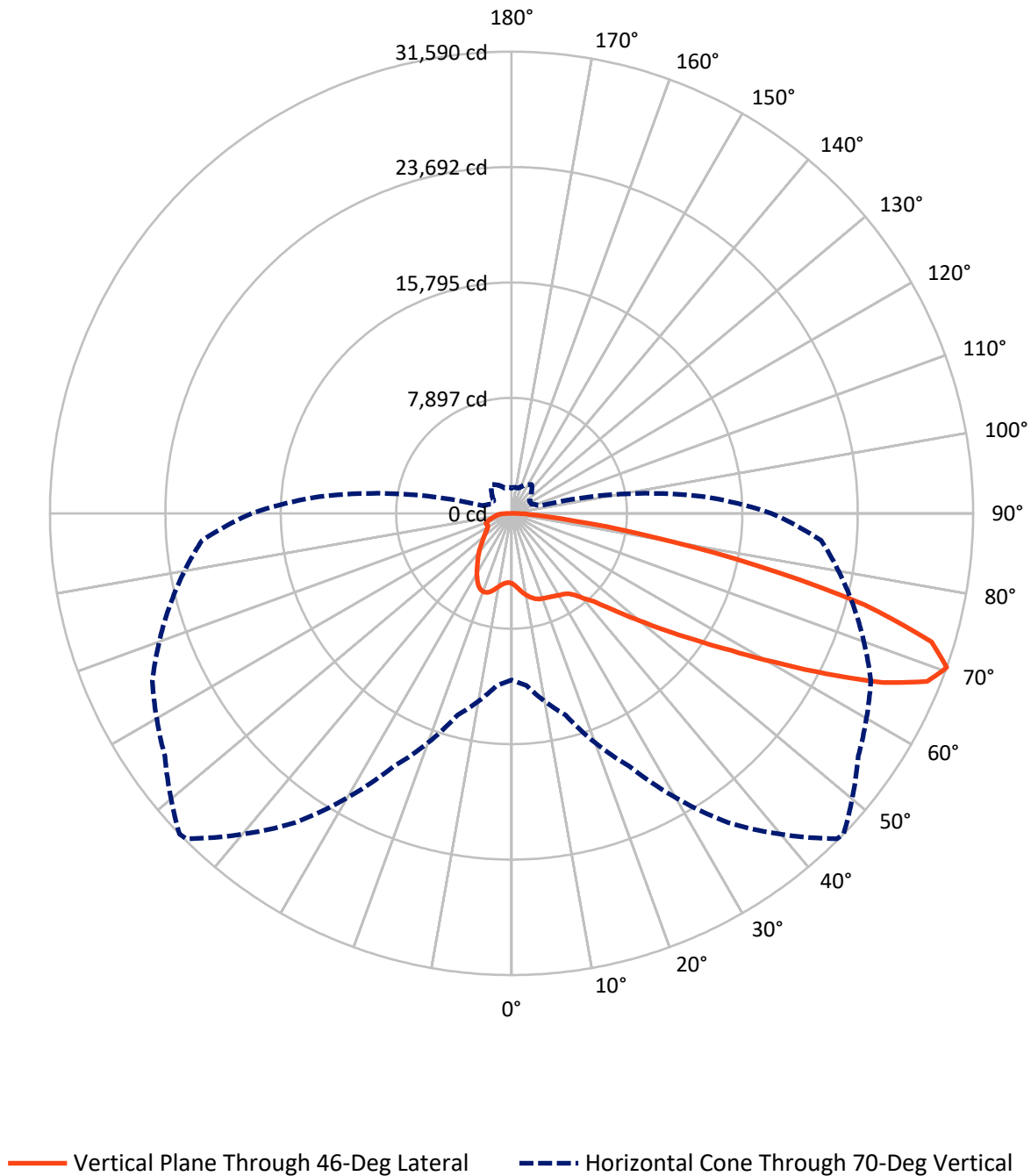
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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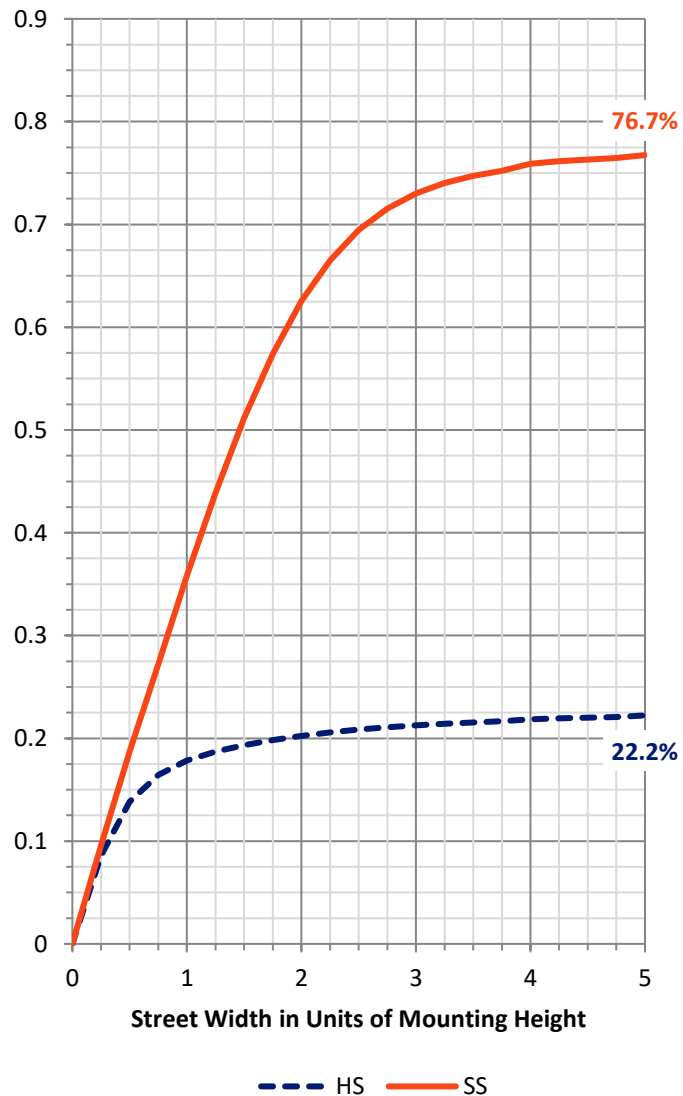
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10789.7	0.0	10789.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	36286.3	0.0	36286.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	47076.0	0.0	47076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.9	1.0
10°-20°	1629.0	3.5
20°-30°	2716.1	5.8
30°-40°	3854.3	8.2
40°-50°	5669.5	12.0
50°-60°	9601.3	20.4
60°-70°	13628.9	29.0
70°-80°	8279.7	17.6
80°-90°	1208.3	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°	47076.0	100.0
0°-180°	47076.0	100.0

Coefficient of Utilization



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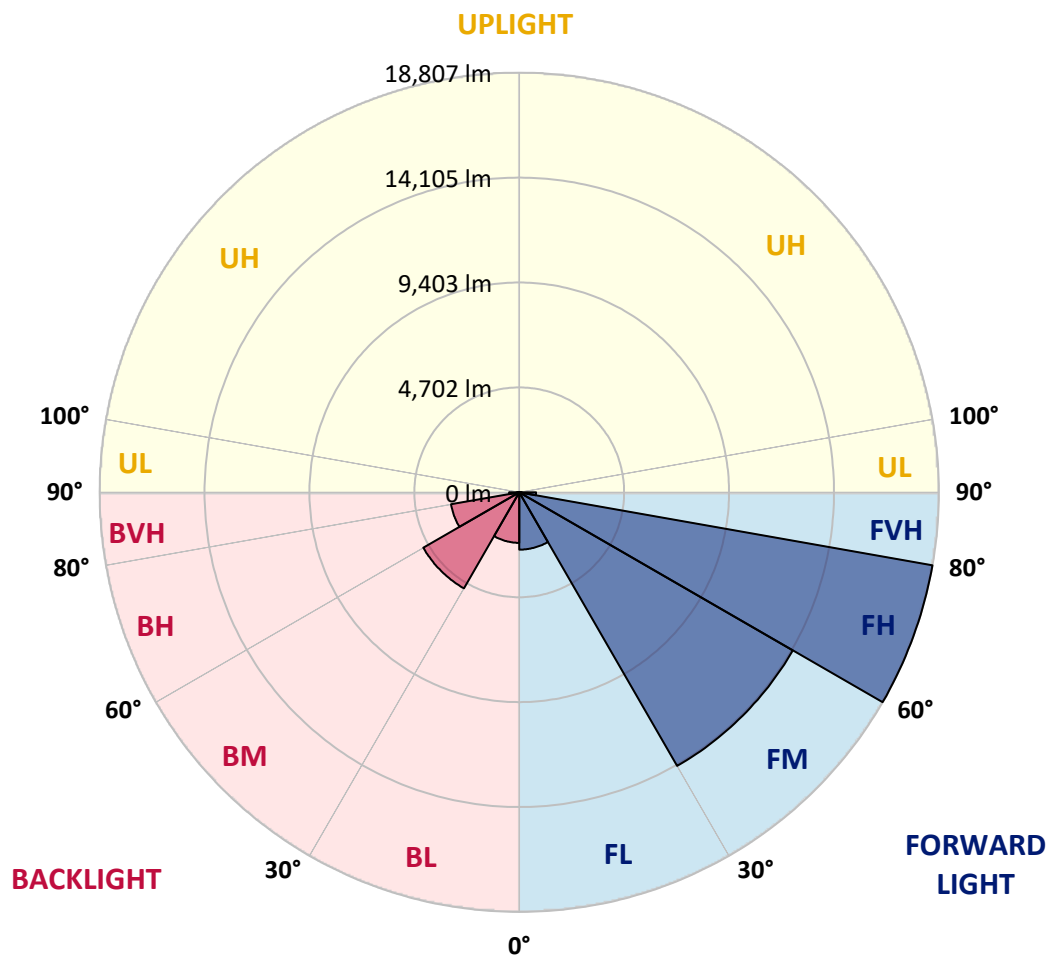
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2568.7	5.5			
FM	(30°-60°)	14158.4	30.1			
FH	(60°-80°)	18806.6	39.9			G5
FVH	(80°-90°)	752.7	1.6			G5
BL	(0°-30°)	2265.3	4.8	B3/2500		
BM	(30°-60°)	4966.8	10.6	B3/5000		
BH	(60°-80°)	3101.9	6.6	B4/5000		G4/5000
BVH	(80°-90°)	455.6	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°	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1
2.5°	5036.2	5039.4	5045.8	5029.7	4984.6	4971.7	4966.9	4920.2	4889.6	4844.5	4805.8
5°	5438.9	5442.2	5432.5	5387.4	5287.5	5213.4	5206.9	5100.6	5003.9	4900.8	4823.5
7.5°	5859.4	5864.3	5833.6	5748.3	5608.1	5479.2	5471.2	5326.2	5179.6	5023.3	4907.3
10°	6231.6	6212.2	6162.3	6043.1	5877.1	5719.3	5712.8	5561.4	5392.2	5203.7	5049.1
12.5°	6479.7	6463.6	6399.1	6254.1	6072.1	5927.1	5914.2	5774.0	5609.7	5403.5	5218.2
15°	6616.6	6627.9	6540.9	6376.6	6199.4	6076.9	6065.6	5965.8	5819.1	5611.3	5398.7
17.5°	6634.3	6644.0	6560.2	6397.5	6252.5	6168.7	6163.9	6097.9	5991.5	5791.8	5569.4
20°	6531.2	6537.7	6468.4	6334.7	6239.6	6213.9	6212.2	6183.2	6104.3	5927.1	5711.2
22.5°	6381.4	6386.2	6336.3	6239.6	6207.4	6247.7	6259.0	6247.7	6191.3	6025.4	5822.4
25°	6344.4	6341.1	6289.6	6191.3	6218.7	6304.1	6318.6	6323.4	6284.7	6139.7	5964.1
27.5°	6523.2	6511.9	6413.6	6255.7	6273.5	6376.6	6395.9	6442.6	6418.5	6291.2	6125.2
30°	7040.3	7021.0	6819.6	6500.6	6413.6	6466.8	6491.0	6565.1	6569.9	6463.6	6339.5
32.5°	7913.5	7889.4	7528.5	6958.2	6650.5	6558.6	6581.2	6692.3	6751.9	6669.8	6536.1
35°	9017.1	8989.7	8516.1	7736.3	7046.8	6734.2	6750.3	6838.9	6958.2	6842.2	6665.0
37.5°	10167.4	10101.3	9645.4	8651.4	7676.7	7109.6	7109.6	7120.9	7177.3	6935.6	6816.4
40°	11311.2	11245.2	10832.8	9727.6	8491.9	7700.9	7663.8	7414.1	7369.0	7161.2	7120.9
42.5°	12374.5	12355.2	12111.9	10943.9	9448.9	8282.5	8230.9	7807.2	7816.9	7688.0	7689.6
45°	13505.5	13505.5	13307.3	12171.6	10563.7	9216.9	9165.3	8541.8	8638.5	8578.9	8722.3
47.5°	14428.6	14457.6	14430.3	13450.7	11860.6	10404.2	10310.8	9560.0	9830.7	10035.3	10452.6
50°	15371.1	15416.2	15421.1	14854.0	13428.2	11815.5	11709.2	10911.7	11515.9	12102.3	12922.3
52.5°	16738.9	16840.4	16436.0	16254.0	15348.6	13491.0	13386.3	12650.0	13658.6	14481.8	15894.7
55°	18006.8	17918.2	17629.8	17742.6	17404.3	15398.5	15319.6	14673.5	16046.1	17115.9	18950.9
57.5°	18693.1	18686.7	18976.7	19460.0	19621.1	17750.6	17684.6	17056.3	18738.2	19542.1	21820.2
60°	19498.6	19509.9	20228.5	21325.6	21989.3	20679.6	20650.6	20173.7	21353.0	21807.3	24070.8
62.5°	19611.4	19814.4	21051.7	22939.9	24206.2	24101.4	24165.9	22981.8	23692.2	23614.9	25751.2
65°	18314.5	18582.0	20821.3	23428.0	26410.1	27843.9	27903.5	25805.9	25536.9	25159.9	26352.1
67.5°	15656.3	16052.6	18485.3	22366.3	27136.7	30610.1	30693.9	27995.4	27067.4	25683.5	24905.4
70°	11393.4	11833.2	14282.0	19102.3	25841.4	31494.6	31589.6	28963.6	27125.4	24193.3	21261.1
72.5°	6882.4	7227.2	9245.9	14062.9	21810.5	29883.5	30052.7	27736.0	24765.2	20492.7	15699.8
75°	3022.3	3247.9	4470.7	8103.6	15614.4	24724.9	24936.0	23740.6	20122.1	14892.6	9279.7
77.5°	1287.2	1351.7	1833.4	3520.2	8827.0	16895.2	17185.2	17346.3	13652.1	8103.6	3921.3
80°	802.3	828.1	1037.5	1593.3	4130.8	9489.1	9801.7	10206.1	6779.3	2978.8	1369.4
82.5°	488.2	517.1	689.5	963.4	2150.8	4301.5	4451.4	4736.5	2630.9	1287.2	708.9
85°	293.2	314.2	422.1	609.0	1224.4	1691.6	1690.0	1868.8	1238.9	828.1	373.8
87.5°	140.2	156.3	225.5	315.8	617.0	634.8	594.5	673.4	752.4	542.9	188.5
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°	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1	4796.1
2.5°	4792.9	4786.5	4765.5	4749.4	4746.2	4736.5	4728.5	4733.3	4739.7	4741.3	4741.3
5°	4791.3	4773.6	4746.2	4734.9	4749.4	4768.7	4792.9	4825.1	4844.5	4859.0	4868.6
7.5°	4868.6	4834.8	4804.2	4797.7	4826.7	4878.3	4933.1	5000.7	5047.4	5079.7	5086.1
10°	4997.5	4955.6	4925.0	4931.5	4983.0	5057.1	5134.4	5221.4	5292.3	5335.8	5339.0
12.5°	5145.7	5105.4	5076.4	5103.8	5189.2	5279.4	5360.0	5435.7	5500.2	5543.7	5543.7
15°	5316.5	5287.5	5253.7	5316.5	5432.5	5513.0	5546.9	5583.9	5619.4	5651.6	5645.2
17.5°	5480.8	5453.4	5435.7	5509.8	5630.7	5667.7	5645.2	5617.8	5617.8	5635.5	5638.7
20°	5622.6	5598.4	5609.7	5682.2	5745.0	5706.4	5622.6	5535.6	5500.2	5509.8	5519.5
22.5°	5746.6	5735.4	5769.2	5803.0	5757.9	5622.6	5467.9	5350.3	5306.8	5303.6	5306.8
25°	5891.6	5890.0	5931.9	5870.7	5670.9	5421.2	5213.4	5099.0	5074.8	5094.2	5126.4
27.5°	6072.1	6089.8	6110.7	5886.8	5493.7	5116.7	4905.7	4826.7	4850.9	4897.6	4928.2
30°	6302.5	6350.8	6305.7	5846.5	5239.2	4768.7	4567.4	4544.8	4610.9	4676.9	4709.1
32.5°	6526.4	6602.1	6492.6	5741.8	4910.5	4399.8	4243.5	4237.1	4317.6	4382.1	4427.2
35°	6706.8	6856.7	6632.7	5534.0	4530.3	4059.9	3945.5	3902.0	3931.0	4006.7	4058.3
37.5°	6942.1	7191.8	6729.4	5216.6	4117.9	3779.5	3645.8	3545.9	3520.2	3550.8	3576.6
40°	7372.2	7702.5	6774.5	4773.6	3715.1	3499.2	3363.9	3217.3	3115.8	3041.7	3043.3
42.5°	8074.6	8367.8	6745.5	4235.5	3342.9	3225.3	3072.3	2903.1	2738.8	2571.3	2558.4
45°	9215.3	9357.0	6658.5	3665.2	3015.9	2938.6	2795.2	2626.0	2406.9	2216.8	2199.1
47.5°	11040.6	10726.4	6523.2	3167.3	2727.5	2695.3	2563.2	2368.3	2136.3	1983.2	1970.3
50°	13529.7	12703.2	6457.1	2771.0	2473.0	2482.6	2374.7	2168.5	1949.4	1836.6	1823.7
52.5°	16506.9	15005.4	6584.4	2464.9	2268.4	2302.2	2221.7	2028.3	1844.7	1756.1	1743.2
55°	19595.3	17389.8	6721.3	2242.6	2075.0	2141.1	2113.7	1954.2	1788.3	1706.1	1694.8
57.5°	22239.1	19170.0	6447.5	2062.2	1902.7	2005.8	2029.9	1907.5	1759.3	1685.2	1672.3
60°	23903.3	19886.9	5728.9	1893.0	1765.7	1897.8	1981.6	1894.6	1770.6	1764.1	1754.4
62.5°	24692.7	19824.1	4651.1	1759.3	1680.3	1851.1	2017.0	1967.1	1899.4	1957.4	1962.3
65°	24338.3	18876.8	3463.8	1670.7	1619.1	1868.8	2123.4	2104.0	1936.5	1994.5	2002.5
67.5°	22005.5	16616.5	2564.8	1593.3	1551.4	1918.8	2316.7	2149.2	1864.0	1905.9	1880.1
70°	17786.1	13173.6	1978.4	1506.3	1482.2	1912.3	2403.7	2121.8	1785.1	1794.7	1725.4
72.5°	12265.0	8983.3	1609.4	1425.8	1382.3	1743.2	2342.5	2054.1	1719.0	1644.9	1553.1
75°	6669.8	4821.9	1367.8	1342.0	1206.7	1530.5	2229.7	2005.8	1659.4	1561.1	1509.6
77.5°	2624.4	2000.9	1187.4	1227.6	1055.2	1351.7	2104.0	1913.9	1577.2	1448.3	1422.6
80°	1071.4	1021.4	984.4	1061.7	907.0	1182.5	1952.6	1806.0	1479.0	1343.6	1292.1
82.5°	607.4	634.8	765.3	837.8	736.3	1089.1	1880.1	1719.0	1361.3	1203.5	1142.2
85°	310.9	372.2	533.3	600.9	541.3	926.4	1731.9	1504.7	1092.3	921.5	926.4
87.5°	149.8	207.8	336.7	377.0	351.2	670.2	1293.7	1090.7	850.6	673.4	652.5
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)