

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: McGRAW-EDISON

Report Number: P647692

Luminaire Tested: **GALN-SA9D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 54952.5 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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



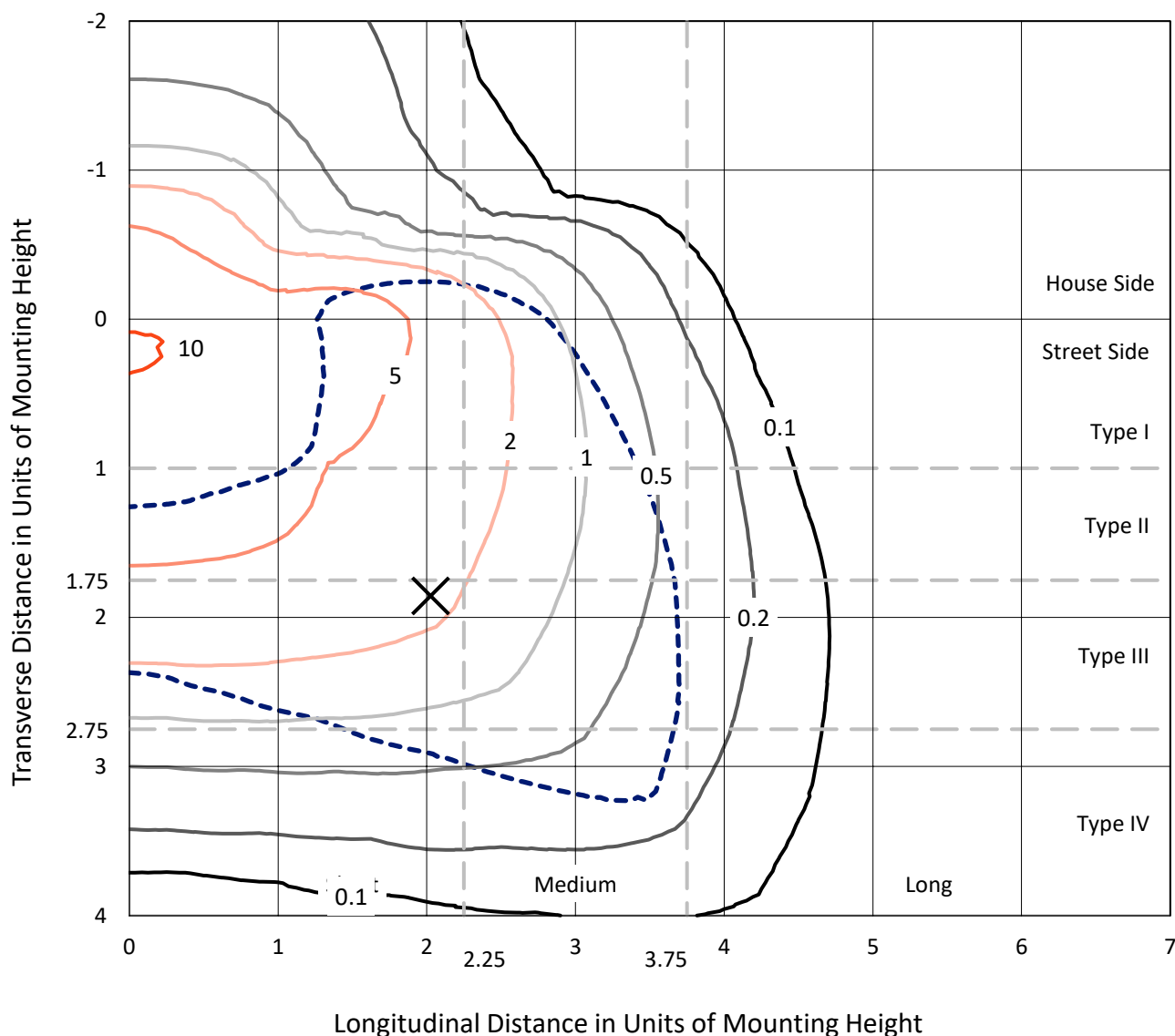
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

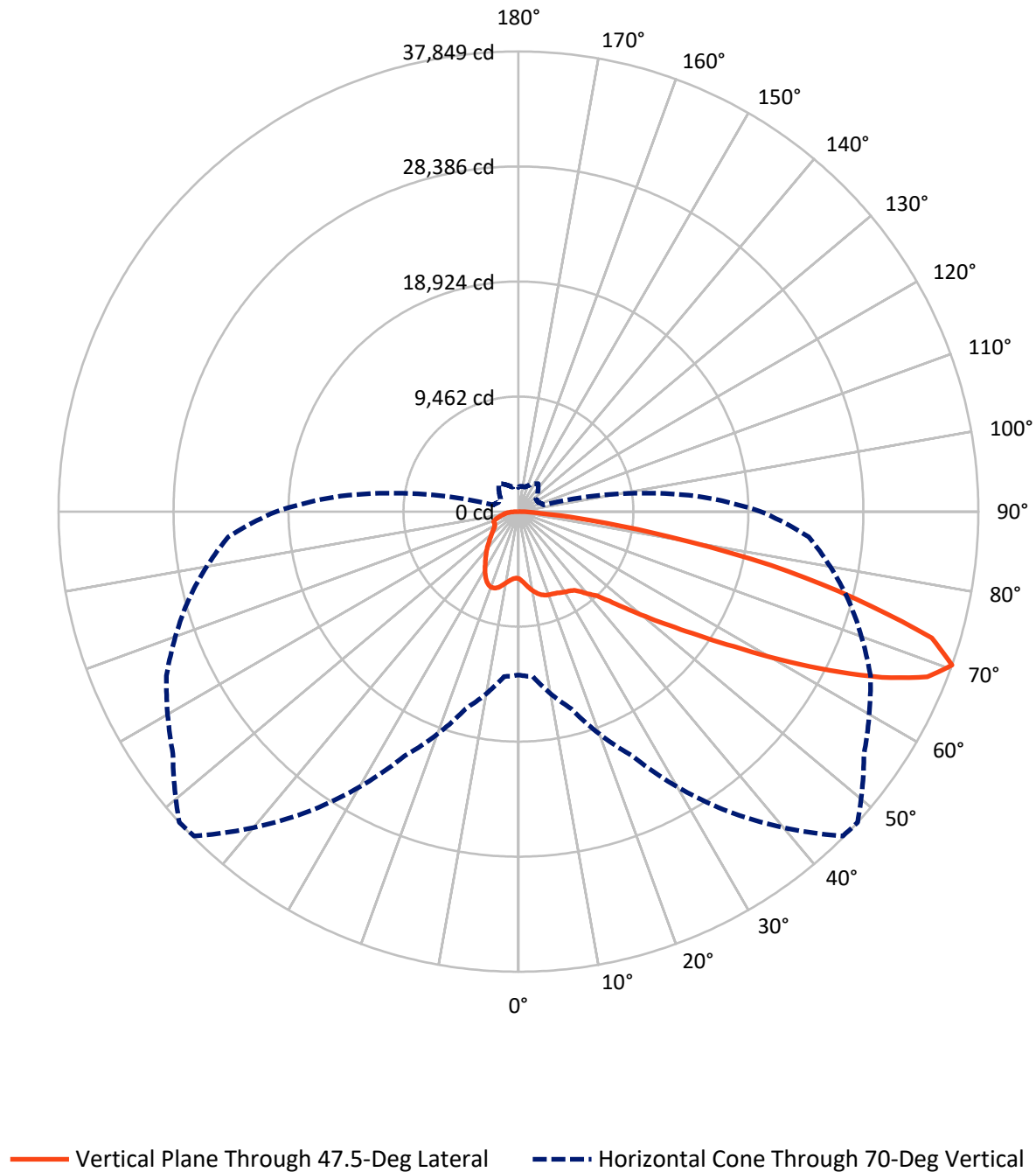


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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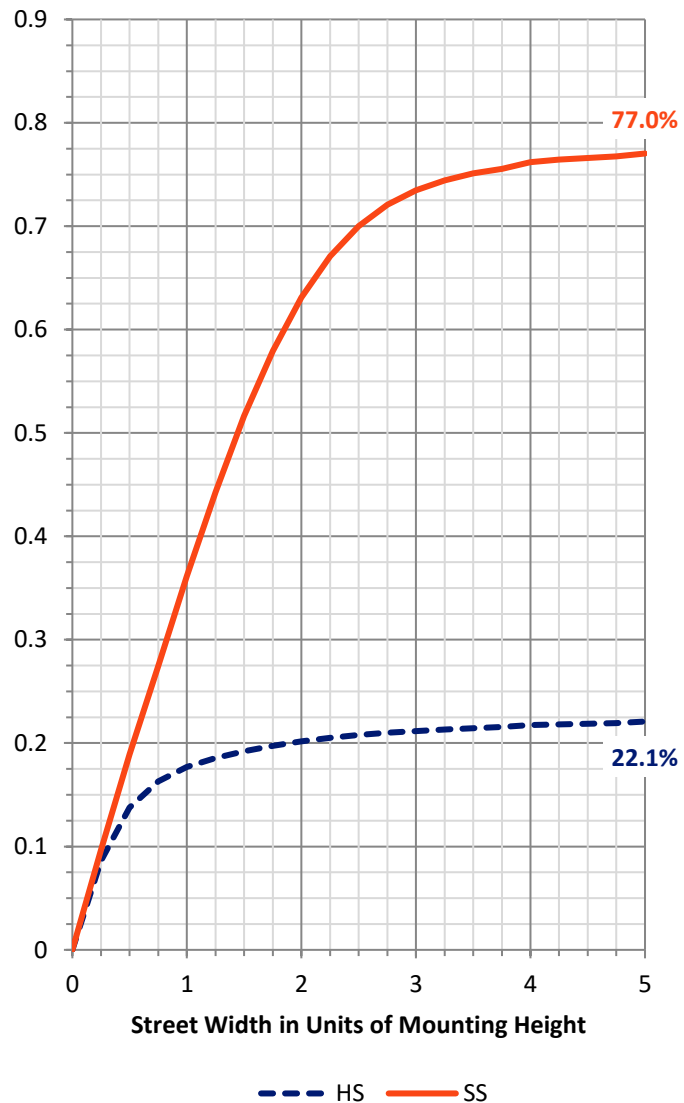
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12442.3	0.0	12442.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	42510.2	0.0	42510.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	54952.5	0.0	54952.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.6	1.0
10°-20°	1901.0	3.5
20°-30°	3161.4	5.8
30°-40°	4480.8	8.2
40°-50°	6614.6	12.0
50°-60°	11456.7	20.8
60°-70°	16183.0	29.4
70°-80°	9302.9	16.9
80°-90°	1283.6	2.3
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°	54952.5	100.0
0°-180°	54952.5	100.0

Coefficient of Utilization



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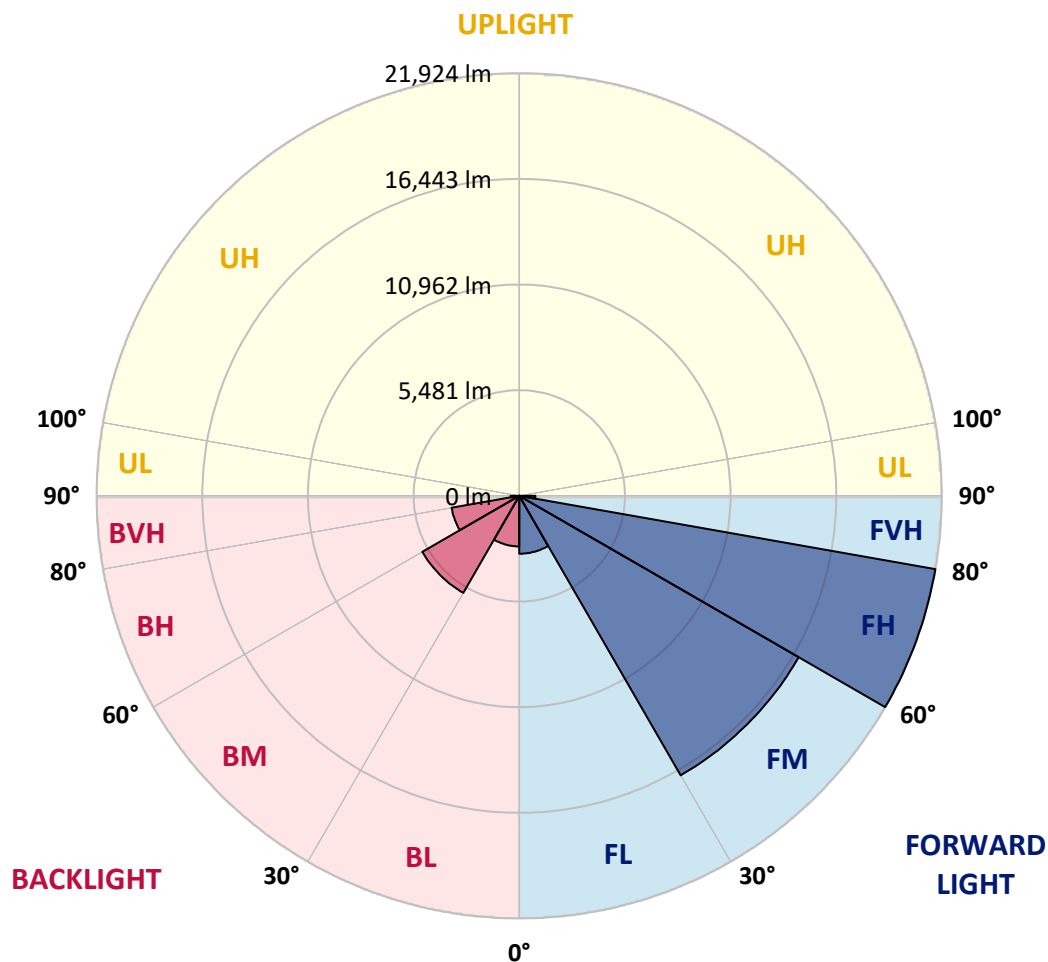
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3005.0	5.5			
FM	(30°-60°)	16743.0	30.5			
FH	(60°-80°)	21923.8	39.9			G5
FVH	(80°-90°)	838.5	1.5			G5
BL	(0°-30°)	2626.0	4.8	B4/5000		
BM	(30°-60°)	5809.1	10.6	B4/8500		
BH	(60°-80°)	3562.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	445.1	0.8			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°	47.5°	55°	65°	75°	85°
0°	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5
2.5°	5872.4	5851.8	5848.9	5804.8	5781.2	5737.1	5719.5	5678.3	5628.3	5578.3	5531.3
5°	6334.1	6334.1	6313.5	6251.7	6154.7	6054.7	6010.6	5931.2	5790.1	5675.3	5578.3
7.5°	6807.5	6813.4	6772.2	6681.0	6542.8	6381.1	6340.0	6222.3	6022.4	5854.7	5710.7
10°	7216.2	7216.2	7160.4	7036.9	6863.4	6686.9	6645.8	6513.5	6289.9	6081.2	5892.9
12.5°	7527.9	7527.9	7454.4	7292.7	7104.5	6945.7	6898.6	6772.2	6563.4	6331.1	6092.9
15°	7730.9	7716.2	7633.8	7451.5	7269.1	7130.9	7098.6	6992.7	6801.6	6566.4	6298.8
17.5°	7739.6	7733.8	7654.4	7501.5	7342.7	7248.6	7228.0	7157.4	7007.5	6784.0	6501.6
20°	7569.1	7580.8	7527.9	7419.2	7342.7	7301.6	7292.7	7269.1	7163.3	6954.5	6672.3
22.5°	7386.8	7407.4	7357.4	7298.6	7292.7	7333.9	7339.8	7345.6	7278.0	7075.1	6816.3
25°	7342.7	7357.4	7307.4	7254.5	7286.8	7395.6	7419.2	7442.6	7389.7	7219.2	6986.9
27.5°	7566.2	7554.4	7457.4	7342.7	7363.3	7510.3	7542.6	7569.1	7542.6	7395.6	7198.6
30°	8198.4	8160.2	7966.1	7630.9	7525.0	7627.9	7660.2	7733.8	7733.8	7625.0	7427.9
32.5°	9257.0	9183.5	8827.7	8169.0	7801.4	7739.6	7772.0	7892.6	7954.3	7869.1	7654.4
35°	10542.1	10465.6	9956.9	9071.8	8307.2	7963.2	7954.3	8089.6	8254.3	8063.1	7783.8
37.5°	11833.0	11753.6	11141.9	10148.0	9045.3	8433.6	8380.7	8427.7	8498.4	8148.4	7963.2
40°	13123.9	13029.8	12494.6	11350.8	9948.1	9057.0	8918.8	8707.1	8677.8	8427.7	8310.1
42.5°	14403.1	14317.8	14047.3	12700.5	11030.2	9665.7	9454.0	9089.4	9201.1	9051.2	8948.3
45°	15694.0	15699.9	15411.7	14214.9	12335.9	10789.0	10503.9	9933.4	10198.0	10142.1	10200.9
47.5°	16837.9	16823.2	16720.3	15685.2	13956.1	12235.9	11868.2	11206.6	11659.5	11865.3	12315.3
50°	17946.5	17937.7	17943.5	17352.5	15838.1	13956.1	13550.3	12856.3	13876.7	14591.3	15397.0
52.5°	19534.4	19584.4	19228.6	19072.8	18125.9	15988.1	15541.1	14823.6	16496.8	17623.1	19196.3
55°	21128.2	21087.1	20807.7	20969.4	20519.5	18393.5	17925.9	17355.4	19413.9	20646.0	23010.2
57.5°	22066.3	22081.0	22366.2	23157.2	23474.8	21392.9	20969.4	20528.4	22692.6	23566.0	26403.7
60°	22910.3	22977.8	23798.3	25292.2	26153.7	25077.5	24701.1	24271.7	25700.9	26047.8	29350.1
62.5°	23174.9	23383.7	24815.8	27050.6	28765.0	29235.5	28767.9	27821.0	28565.0	28429.7	31346.9
65°	21854.5	22139.8	24706.9	27709.3	31096.8	33181.7	32884.7	31126.3	31005.7	30191.1	31673.2
67.5°	18378.7	18664.0	21960.4	26327.2	32061.4	36598.8	36301.8	33537.5	32487.8	30355.8	29203.2
70°	13447.4	13626.8	16779.1	22166.3	30123.5	37745.6	37848.5	34713.8	31958.5	28118.1	23977.7
72.5°	7748.5	8145.5	10353.8	15594.0	24609.9	34846.2	35560.7	32267.2	28612.1	23457.2	16764.3
75°	3331.7	3340.5	4787.3	8601.3	16667.3	28009.2	28700.3	26747.7	22469.1	16220.4	8951.2
77.5°	1584.9	1614.4	2105.5	3840.5	9174.6	19352.1	21216.5	18896.3	14370.7	7792.6	3381.7
80°	1029.2	1049.8	1288.0	1905.5	4499.1	11221.3	12521.1	10900.8	6340.0	2784.7	1458.6
82.5°	623.4	629.3	861.6	1164.5	2476.0	5081.4	5990.0	4731.4	2705.3	1667.3	858.6
85°	379.4	382.3	523.4	720.4	1502.7	1755.6	1802.6	1787.9	1587.9	1091.0	458.8
87.5°	182.3	188.2	270.5	341.1	591.1	544.0	514.6	597.0	749.9	588.1	197.0
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°	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5	5516.5
2.5°	5510.7	5501.9	5481.3	5472.5	5466.6	5469.5	5466.6	5466.6	5469.5	5469.5	5469.5
5°	5537.1	5522.4	5490.1	5490.1	5507.8	5548.9	5587.2	5616.5	5648.9	5646.0	5646.0
7.5°	5651.9	5625.4	5587.2	5598.9	5643.0	5707.7	5775.3	5840.0	5904.8	5910.6	5907.7
10°	5819.5	5793.0	5751.8	5766.6	5837.1	5934.1	6019.4	6113.5	6184.1	6204.6	6198.8
12.5°	6010.6	5957.7	5922.4	5963.6	6075.3	6204.6	6287.0	6357.6	6407.6	6437.0	6425.2
15°	6204.6	6154.7	6113.5	6198.8	6334.1	6454.7	6495.8	6507.6	6516.4	6545.8	6539.9
17.5°	6392.9	6325.2	6310.5	6422.2	6551.7	6604.6	6581.0	6531.1	6492.9	6516.4	6513.5
20°	6560.5	6507.6	6501.6	6613.5	6663.4	6613.5	6513.5	6425.2	6357.6	6363.4	6360.5
22.5°	6719.3	6678.1	6684.0	6731.1	6651.7	6481.1	6316.4	6195.9	6122.4	6137.1	6145.8
25°	6895.7	6854.5	6869.3	6792.8	6531.1	6234.1	5995.9	5892.9	5863.6	5892.9	5913.5
27.5°	7125.1	7098.6	7089.8	6795.7	6316.4	5869.4	5598.9	5560.7	5587.2	5651.9	5684.2
30°	7372.1	7372.1	7325.0	6745.8	6022.4	5431.3	5196.1	5201.9	5293.1	5384.2	5416.6
32.5°	7610.3	7660.2	7513.3	6610.5	5643.0	5004.9	4825.6	4831.4	4910.8	5022.6	5052.0
35°	7807.3	7951.4	7675.0	6363.4	5196.1	4646.2	4510.9	4431.5	4434.4	4519.7	4543.2
37.5°	8077.8	8345.4	7769.1	5995.9	4719.7	4340.3	4187.4	4049.2	3958.1	3922.8	3922.8
40°	8548.3	8942.4	7792.6	5451.9	4269.8	4049.2	3831.6	3666.9	3490.5	3331.7	3302.3
42.5°	9345.3	9842.2	7745.5	4825.6	3863.9	3728.6	3516.9	3314.0	3070.0	2846.5	2828.8
45°	10756.7	11012.6	7619.1	4175.7	3502.3	3419.9	3214.1	2993.6	2734.8	2534.8	2520.1
47.5°	13018.1	12656.3	7451.5	3599.3	3172.9	3149.4	2990.6	2734.8	2476.0	2337.8	2323.1
50°	16320.4	15244.1	7427.9	3181.7	2908.2	2920.0	2790.6	2555.4	2329.0	2214.2	2196.6
52.5°	20296.1	18370.0	7583.8	2887.7	2676.0	2720.1	2655.4	2437.8	2237.8	2140.7	2123.1
55°	24154.1	21181.2	7677.9	2658.3	2458.3	2540.7	2549.5	2367.2	2184.9	2087.8	2076.0
57.5°	27285.8	23298.4	7260.4	2449.5	2270.2	2396.6	2461.3	2326.0	2158.4	2084.9	2073.1
60°	29464.8	24298.2	6072.3	2264.3	2132.0	2281.9	2428.9	2329.0	2223.1	2231.9	2237.8
62.5°	30158.8	23854.2	4555.0	2126.1	2037.8	2243.7	2481.9	2449.5	2340.7	2408.4	2420.1
65°	29009.1	22019.2	3302.3	2017.2	1955.5	2270.2	2640.7	2537.7	2299.5	2349.5	2349.5
67.5°	25159.8	18969.8	2570.1	1917.3	1861.4	2320.1	2799.5	2528.9	2202.5	2261.3	2208.4
70°	19957.9	14673.6	2140.7	1805.5	1761.4	2246.6	2814.2	2437.8	2087.8	2099.6	1999.6
72.5°	13244.4	9648.1	1840.8	1699.7	1608.5	2020.2	2693.6	2320.1	1976.1	1908.5	1808.5
75°	6489.9	4810.8	1605.5	1567.3	1408.5	1758.5	2528.9	2208.4	1855.6	1749.7	1693.8
77.5°	2514.2	2046.7	1370.3	1399.7	1226.3	1549.7	2311.3	2049.6	1696.8	1552.6	1508.5
80°	1220.4	1161.5	1123.3	1167.5	1008.7	1320.3	2111.4	1911.4	1549.7	1390.9	1326.2
82.5°	758.6	717.5	861.6	908.7	776.3	1205.7	2002.5	1793.8	1364.5	1152.7	1099.8
85°	385.2	411.7	576.4	620.4	555.8	958.6	1649.7	1346.8	985.1	817.5	823.4
87.5°	147.0	197.0	302.9	326.4	297.0	505.8	908.7	785.1	632.2	429.3	397.0
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)