

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: P457350

Luminaire Tested: **GALN-SA8C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45013 lumens
Efficiency: N/A
Efficacy: 104.9 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): 429
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

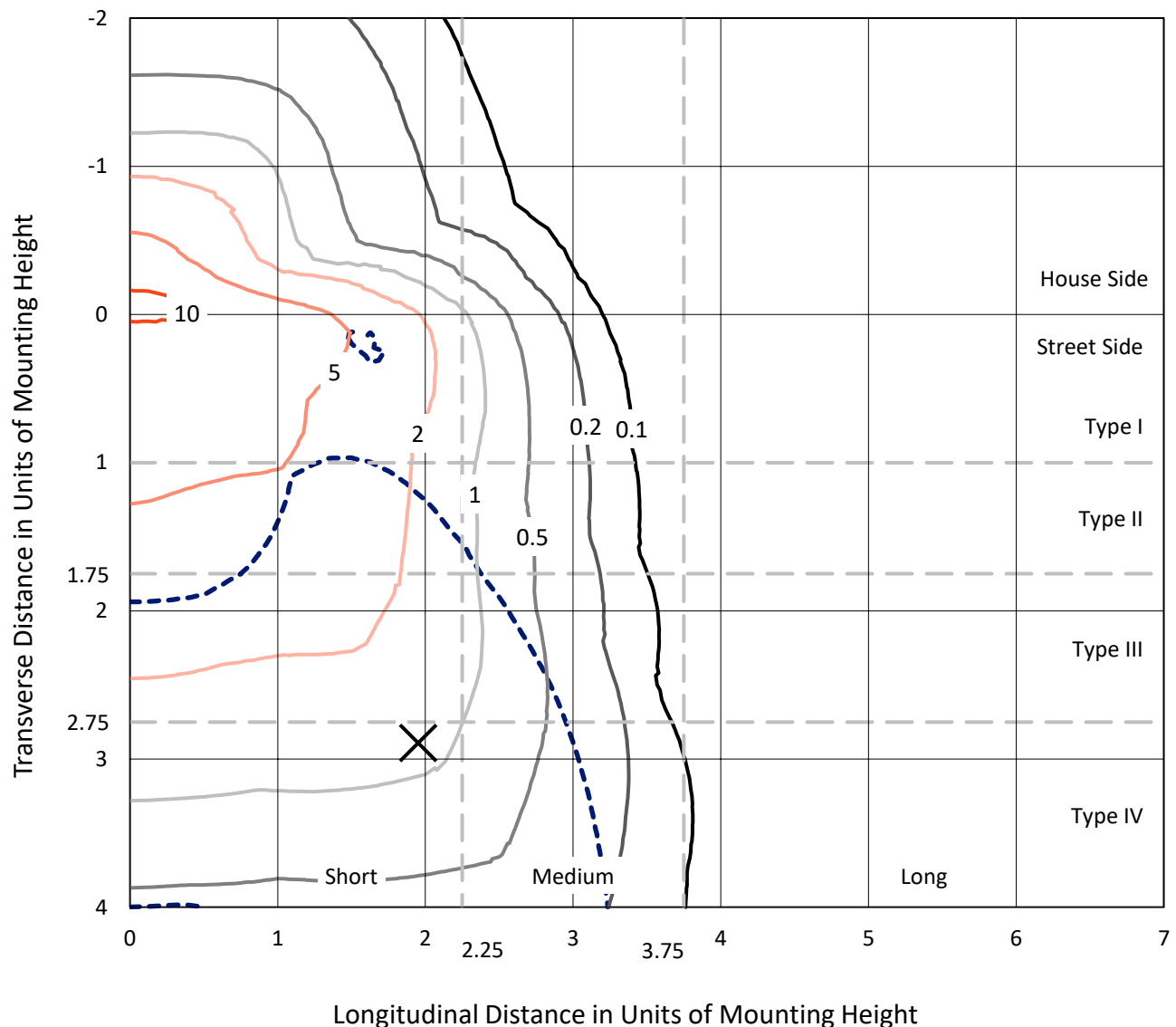


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



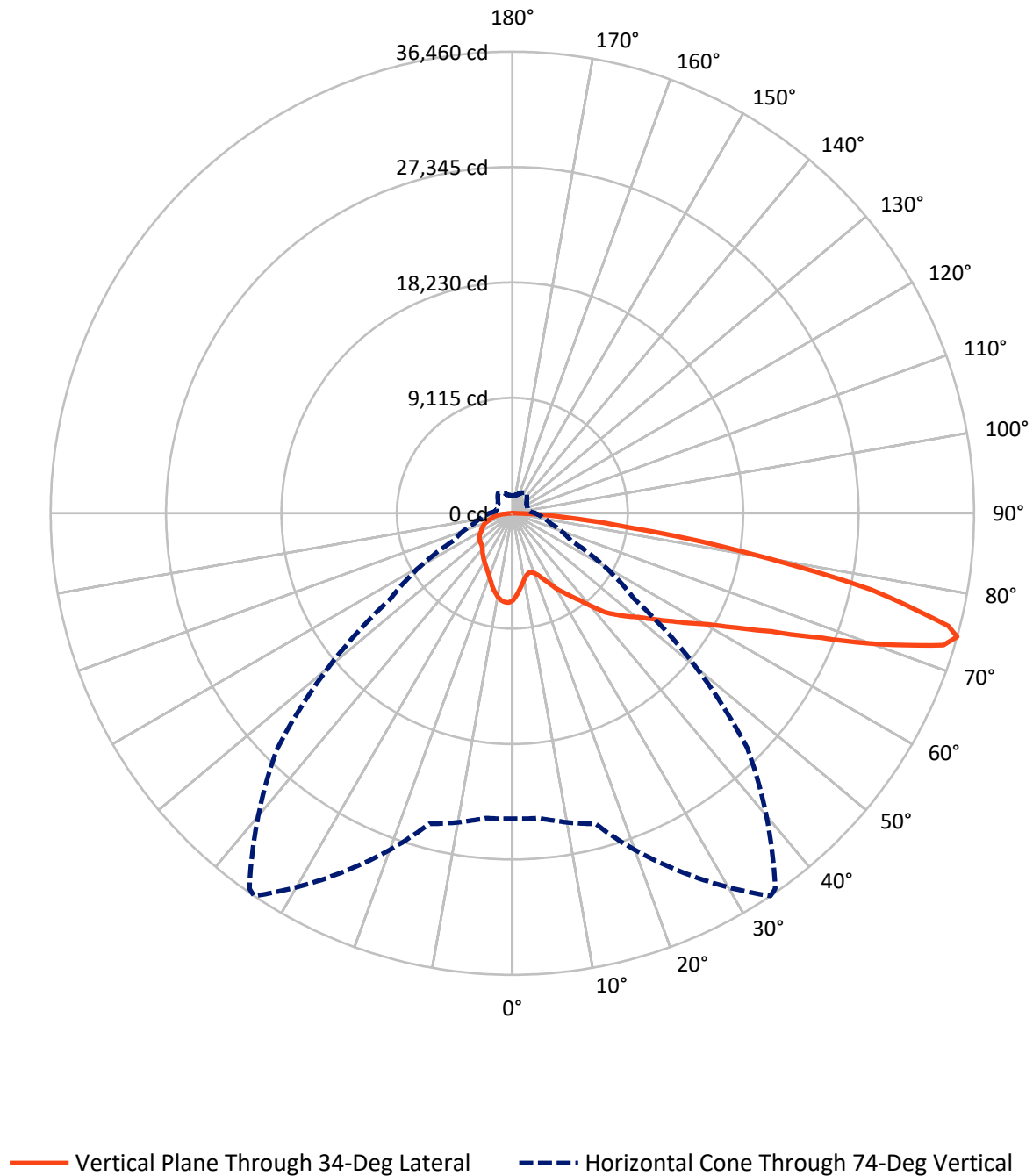
Based on 25 foot mounting height. Maximum calculated value = 11 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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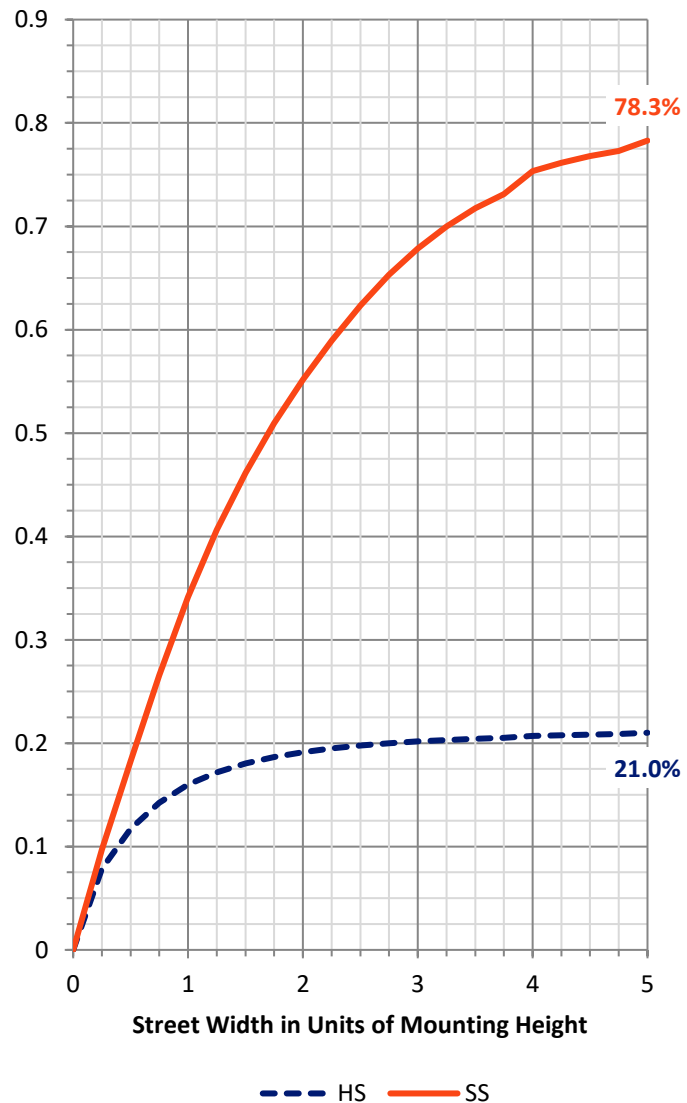
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9579.1	0.0	9579.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	35433.9	0.0	35433.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	45013.0	0.0	45013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.0	1.4
10°-20°	1711.0	3.8
20°-30°	2821.0	6.3
30°-40°	4225.5	9.4
40°-50°	6142.8	13.6
50°-60°	8580.0	19.1
60°-70°	10741.7	23.9
70°-80°	8882.5	19.7
80°-90°	1283.5	2.9
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°	45013.0	100.0
0°-180°	45013.0	100.0

Coefficient of Utilization



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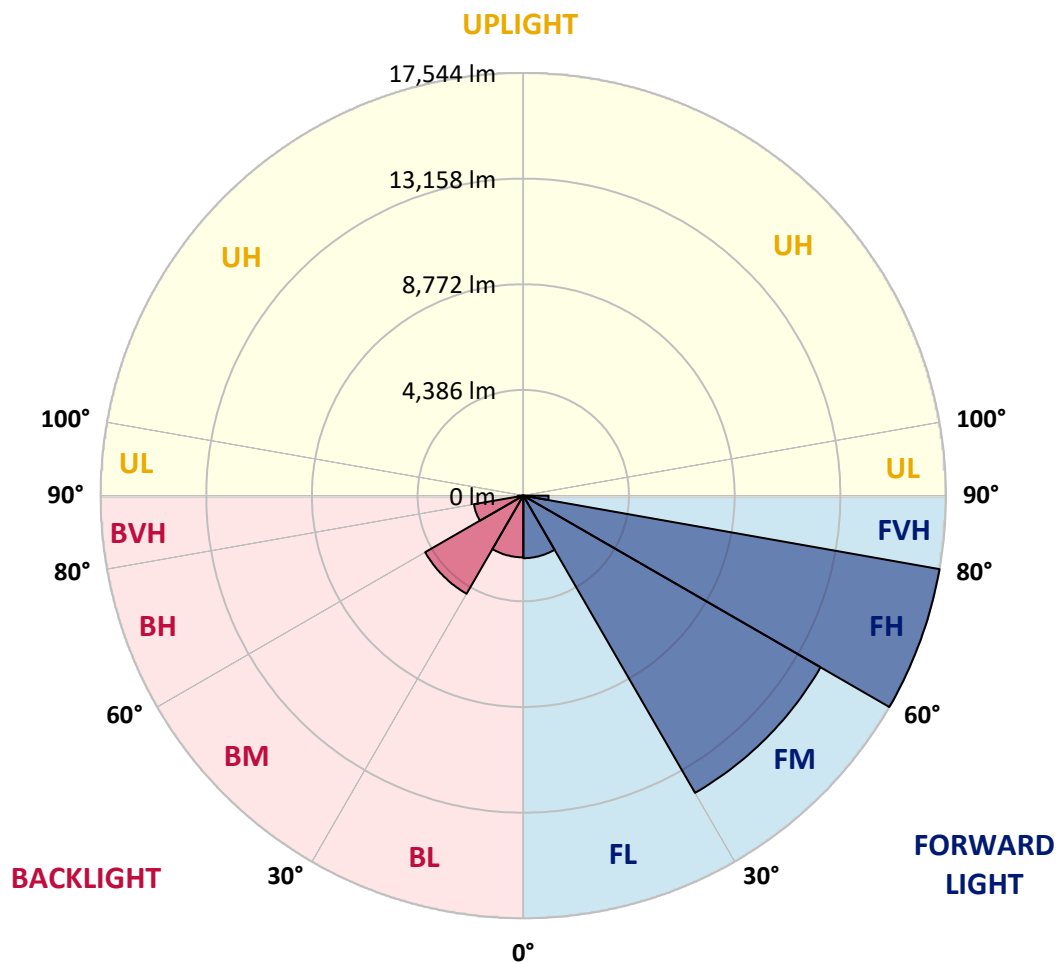
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2594.8	5.8			
FM	(30°-60°)	14244.0	31.6			
FH	(60°-80°)	17543.7	39.0			G5
FVH	(80°-90°)	1051.5	2.3			G5
BL	(0°-30°)	2562.3	5.7	B4/5000		
BM	(30°-60°)	4704.3	10.5	B3/5000		
BH	(60°-80°)	2080.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	232.0	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6
2.5°	6351.4	6383.8	6401.3	6463.6	6478.6	6498.5	6550.9	6620.7	6710.5	6790.3	6860.1
5°	5822.8	5872.6	5902.6	5957.4	6064.6	6074.6	6214.3	6373.9	6555.9	6725.5	6865.1
7.5°	5321.5	5376.4	5401.3	5501.1	5643.2	5665.7	5870.1	6122.0	6426.2	6683.1	6897.5
10°	4945.0	4972.4	5027.3	5102.1	5271.6	5286.6	5553.4	5890.1	6284.1	6663.1	6952.4
12.5°	4740.5	4755.5	4767.9	4847.7	5014.8	5037.2	5316.5	5698.1	6171.9	6678.1	7042.2
15°	4770.4	4775.4	4720.5	4735.5	4870.2	4902.6	5179.4	5570.9	6102.0	6715.5	7176.8
17.5°	5022.3	5004.8	4870.2	4800.3	4895.1	4910.1	5152.0	5521.0	6069.6	6785.3	7316.5
20°	5418.8	5393.8	5161.9	5007.3	5062.2	5074.6	5241.7	5558.4	6102.0	6900.0	7533.4
22.5°	5912.5	5902.6	5550.9	5363.9	5361.4	5361.4	5448.7	5693.1	6199.3	7057.1	7760.3
25°	6603.3	6550.9	6092.1	5850.2	5782.9	5777.9	5767.9	5915.0	6324.0	7224.2	8029.7
27.5°	7311.5	7221.7	6812.7	6441.2	6296.6	6279.1	6214.3	6229.2	6483.6	7413.7	8336.4
30°	7947.4	7890.0	7506.0	7094.5	6922.5	6882.6	6703.0	6620.7	6750.4	7755.4	8825.1
32.5°	8433.6	8398.7	8099.5	7725.4	7471.1	7463.6	7201.8	7134.4	7166.8	8169.3	9383.7
35°	8827.6	8840.1	8688.0	8363.8	8072.1	8029.7	7855.1	7770.3	7675.6	8767.8	10087.0
37.5°	9366.3	9393.7	9383.7	9104.4	8747.8	8757.8	8717.9	8578.3	8326.4	9436.1	10867.5
40°	9959.8	9979.7	9977.2	9870.0	9683.0	9693.0	9678.0	9518.4	9141.8	10286.4	11735.3
42.5°	10780.2	10685.4	10438.6	10545.8	10655.5	10702.9	10805.1	10653.0	10136.8	11194.2	12550.7
45°	11697.9	11518.3	10959.7	11009.6	11416.1	11505.9	12069.4	11860.0	11216.6	12236.5	13510.8
47.5°	12276.4	12099.4	11628.1	11618.1	12156.7	12244.0	13241.5	13164.2	12199.1	13361.2	14682.8
50°	12792.6	12767.7	12236.5	12363.7	12889.9	13019.5	14518.2	14445.9	13179.1	14687.8	15959.6
52.5°	13558.2	13356.2	12932.2	13194.1	13889.8	14059.4	15785.0	15573.1	14079.3	15859.8	17198.9
55°	13902.3	13854.9	13830.0	14056.9	15012.0	15134.2	17016.9	16530.6	14847.4	16852.3	18141.6
57.5°	14822.5	14735.2	14982.1	15136.7	16333.6	16520.7	18303.6	17530.6	15520.7	17640.3	18600.4
60°	16014.4	15967.1	16194.0	16473.3	17809.9	18094.2	19769.9	18383.4	16061.8	18036.8	18348.5
62.5°	17794.9	17789.9	17747.6	18346.0	19902.1	20163.9	21453.2	19213.8	16146.6	17740.1	17046.8
65°	20348.5	20258.7	19889.6	20543.0	22505.5	22812.2	23206.2	19677.7	15635.4	16216.4	14353.6
67.5°	23019.2	23014.2	22715.0	23562.8	26243.5	26560.2	25398.2	19575.4	14216.5	13136.7	10194.2
70°	25233.6	25126.4	25507.9	27767.2	31018.9	31385.5	27315.8	18371.0	11323.8	8675.5	6057.2
72.5°	25764.7	25769.7	26562.7	31009.0	35604.8	35662.2	28006.6	14889.8	7578.3	4785.4	3029.8
74°	24128.9	24171.3	25400.7	31171.1	36460.2	36200.8	26241.0	11702.9	5124.5	3124.6	2184.5
75°	22024.2	21757.4	23535.4	30091.3	35572.4	35293.1	24173.8	9391.2	3910.1	2496.2	1912.7
77.5°	11775.2	12047.0	14790.0	22455.6	28899.3	28577.6	16391.0	4503.6	2112.2	1738.1	1376.5
80°	4191.9	4623.3	6498.5	11750.2	18528.1	18627.8	7822.7	2064.8	1486.2	1281.8	972.5
82.5°	1710.7	1758.0	2790.4	5214.3	9408.7	9498.4	3194.4	1226.9	1062.3	882.8	581.0
85°	668.3	688.3	1234.4	2344.1	4014.8	4276.7	1104.7	648.4	653.3	506.2	296.7
87.5°	224.4	254.4	506.2	780.5	1364.0	1336.6	321.7	192.0	234.4	219.4	92.3
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°	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6
2.5°	6895.0	6942.4	6974.8	7009.7	7042.2	7052.1	7044.7	7067.1	7069.6	7072.1	7074.6
5°	6934.9	6999.8	7062.1	7097.0	7112.0	7099.5	7057.1	7034.7	7014.7	6999.8	7004.8
7.5°	6989.8	7082.1	7139.4	7154.4	7114.5	7057.1	6952.4	6870.1	6817.7	6782.8	6780.3
10°	7074.6	7164.4	7211.7	7169.3	7059.6	6920.0	6755.4	6600.8	6483.6	6448.7	6446.2
12.5°	7181.8	7284.1	7281.6	7156.9	6964.9	6715.5	6448.7	6269.1	6109.5	6029.7	6062.1
15°	7321.5	7398.8	7326.4	7102.0	6797.8	6456.1	6127.0	5882.6	5703.1	5618.3	5623.3
17.5°	7483.5	7550.9	7358.9	7004.8	6563.4	6124.5	5743.0	5511.0	5368.9	5306.6	5301.6
20°	7685.5	7705.5	7358.9	6835.2	6261.6	5738.0	5373.9	5211.8	5132.0	5099.6	5109.6
22.5°	7902.5	7862.6	7319.0	6595.8	5865.1	5334.0	5089.6	5017.3	4977.4	4972.4	4977.4
25°	8146.9	8034.7	7236.7	6271.6	5451.2	4984.9	4842.7	4855.2	4862.7	4862.7	4880.1
27.5°	8446.1	8221.7	7099.5	5862.7	4967.4	4660.7	4620.8	4708.1	4748.0	4755.5	4767.9
30°	8840.1	8426.2	6872.6	5351.4	4556.0	4368.9	4438.8	4556.0	4600.8	4628.3	4623.3
32.5°	9308.9	8650.6	6565.9	4840.2	4224.3	4164.5	4249.2	4368.9	4418.8	4433.8	4413.8
35°	9860.0	8904.9	6161.9	4361.5	3935.0	3969.9	4069.7	4107.1	4152.0	4152.0	4162.0
37.5°	10453.5	9109.4	5668.1	3922.6	3710.6	3837.8	3910.1	3875.2	3855.2	3830.3	3842.8
40°	11057.0	9261.5	5027.3	3488.7	3486.2	3700.6	3720.6	3620.8	3541.0	3516.1	3503.6
42.5°	11583.2	9356.3	4448.7	3152.0	3274.2	3566.0	3580.9	3421.3	3294.2	3219.3	3194.4
45°	12204.1	9466.0	3882.7	2872.7	3077.2	3458.7	3496.1	3281.7	3094.7	2937.6	2897.7
47.5°	13054.4	9715.4	3436.3	2655.8	2935.1	3391.4	3443.8	3167.0	2920.1	2715.6	2683.2
50°	14014.5	10057.0	3089.7	2508.6	2825.3	3331.6	3396.4	3049.8	2758.0	2531.1	2506.2
52.5°	14894.8	10241.6	2790.4	2376.5	2718.1	3221.8	3334.1	2965.0	2598.4	2346.6	2324.1
55°	15376.1	9942.3	2496.2	2246.8	2571.0	3079.7	3246.8	2847.8	2443.8	2249.3	2216.9
57.5°	15440.9	9323.9	2229.4	2107.2	2416.4	2905.1	3084.7	2705.6	2344.1	2182.0	2154.5
60°	14939.7	8401.2	2022.4	1992.5	2259.3	2708.1	2902.6	2581.0	2241.8	2107.2	2079.7
62.5°	13692.8	7398.8	1877.7	1887.7	2099.7	2501.2	2768.0	2461.3	2144.6	2024.9	1999.9
65°	11548.3	6107.0	1738.1	1780.5	1957.5	2339.1	2645.8	2361.5	2047.3	1962.5	1940.1
67.5°	8022.2	4408.8	1623.4	1668.3	1822.9	2174.5	2503.7	2254.3	1937.6	1892.7	1857.8
70°	4441.3	2713.1	1488.7	1541.1	1683.2	1990.0	2344.1	2092.2	1778.0	1758.0	1708.2
72.5°	2334.1	1728.1	1336.6	1394.0	1493.7	1753.1	2099.7	1915.1	1620.9	1536.1	1471.3
74°	1822.9	1416.4	1234.4	1294.2	1361.6	1613.4	1955.0	1788.0	1508.7	1408.9	1359.1
75°	1588.5	1261.8	1147.1	1224.4	1284.2	1518.7	1842.8	1698.2	1446.3	1351.6	1306.7
77.5°	1122.2	945.1	937.6	1029.9	1062.3	1331.6	1660.8	1546.1	1289.2	1189.5	1147.1
80°	788.0	708.2	743.1	800.5	845.4	1177.0	1541.1	1336.6	1057.3	940.1	925.2
82.5°	513.7	463.8	531.2	583.5	598.5	867.8	1244.3	1014.9	770.5	625.9	581.0
85°	236.9	231.9	304.2	296.7	294.3	423.9	738.1	593.5	443.9	331.7	311.7
87.5°	59.8	57.4	74.8	62.3	74.8	64.8	67.3	17.5	2.5	0.0	0.0
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)