

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: P457794

Luminaire Tested: **GALN-SA9A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26962 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 274
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

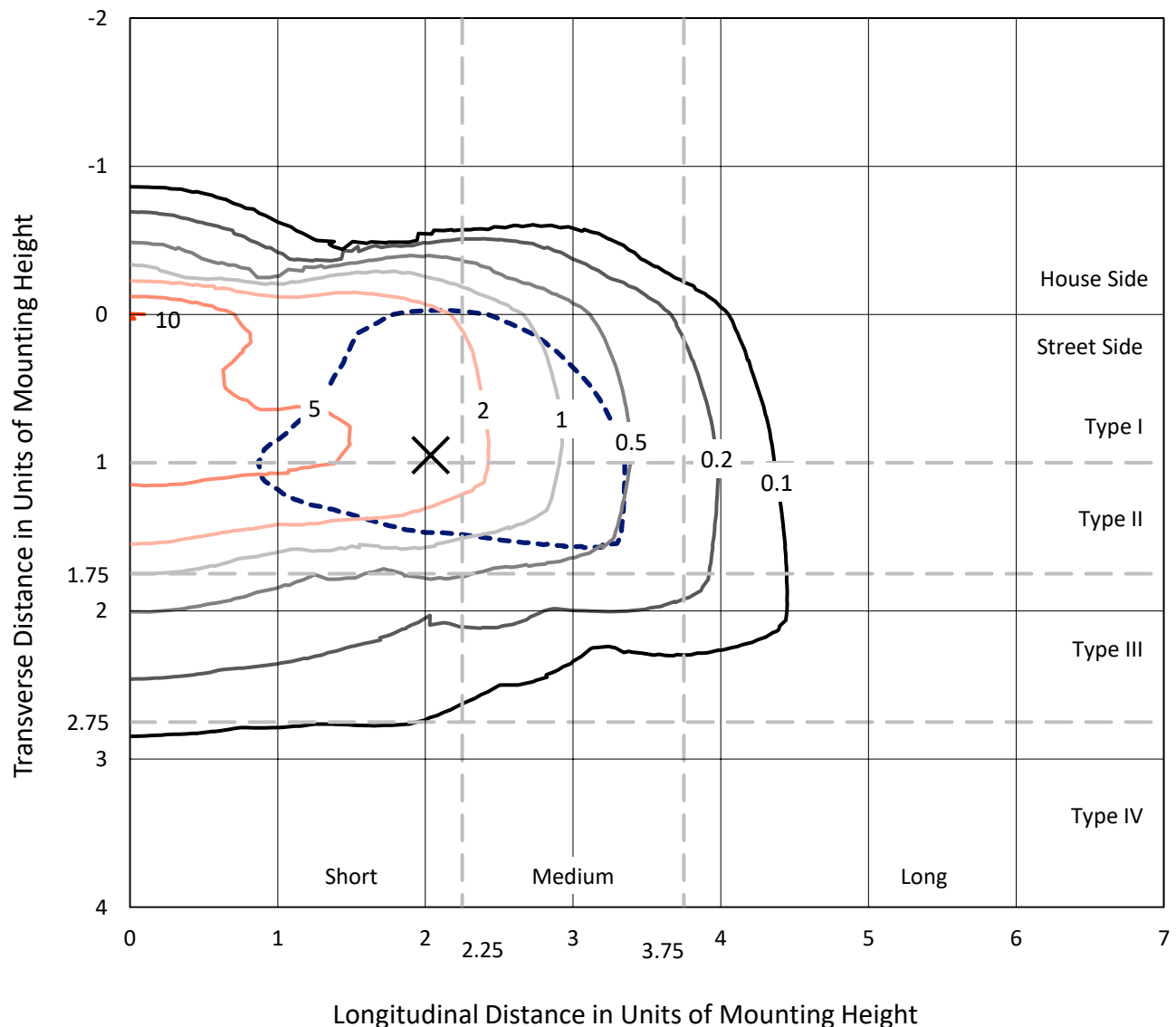


REPORT NUMBER: P457794

CATALOG NUMBER: GALN-SA9A-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

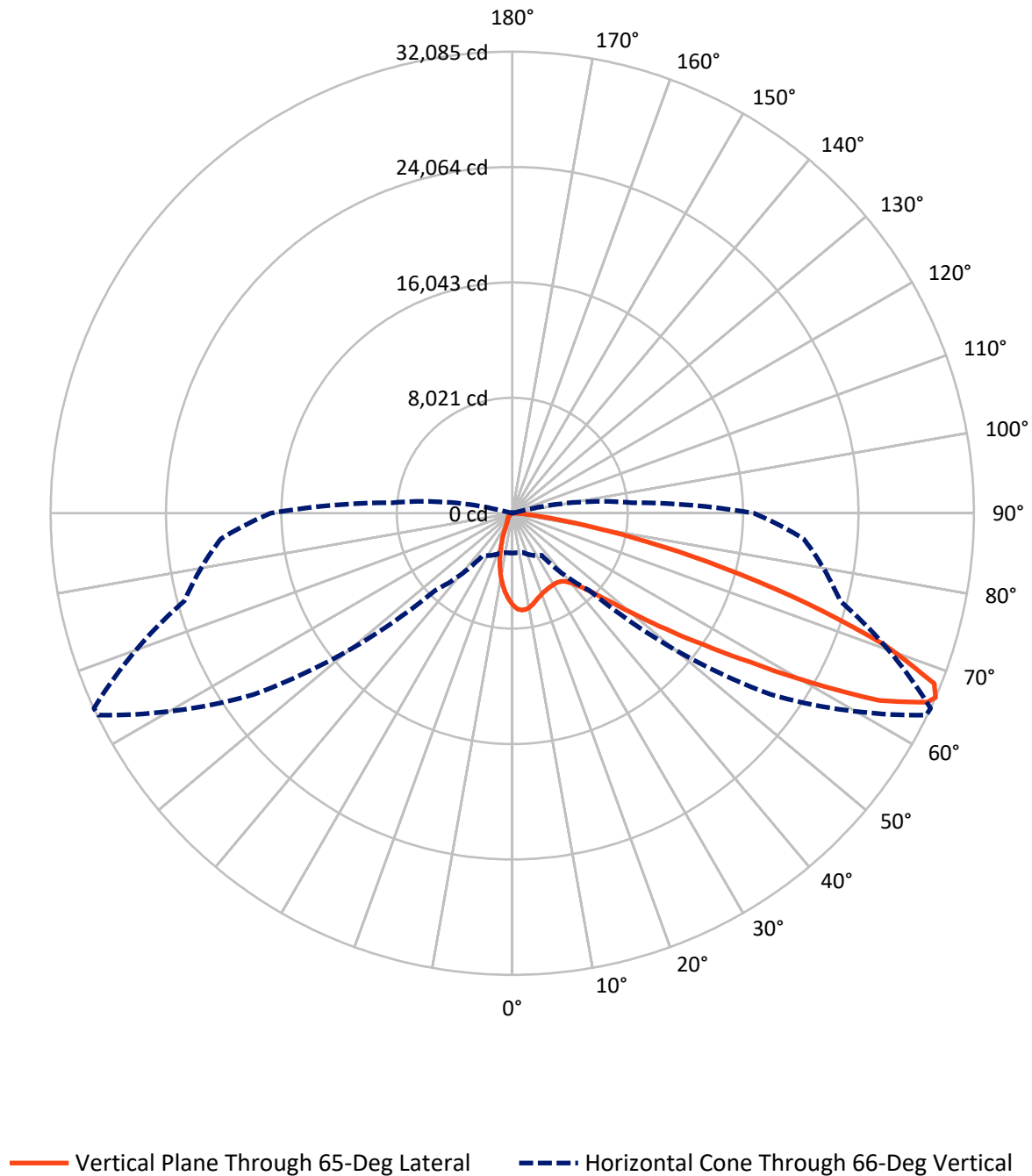


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

REPORT NUMBER: P457794

CATALOG NUMBER: GALN-SA9A-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457794

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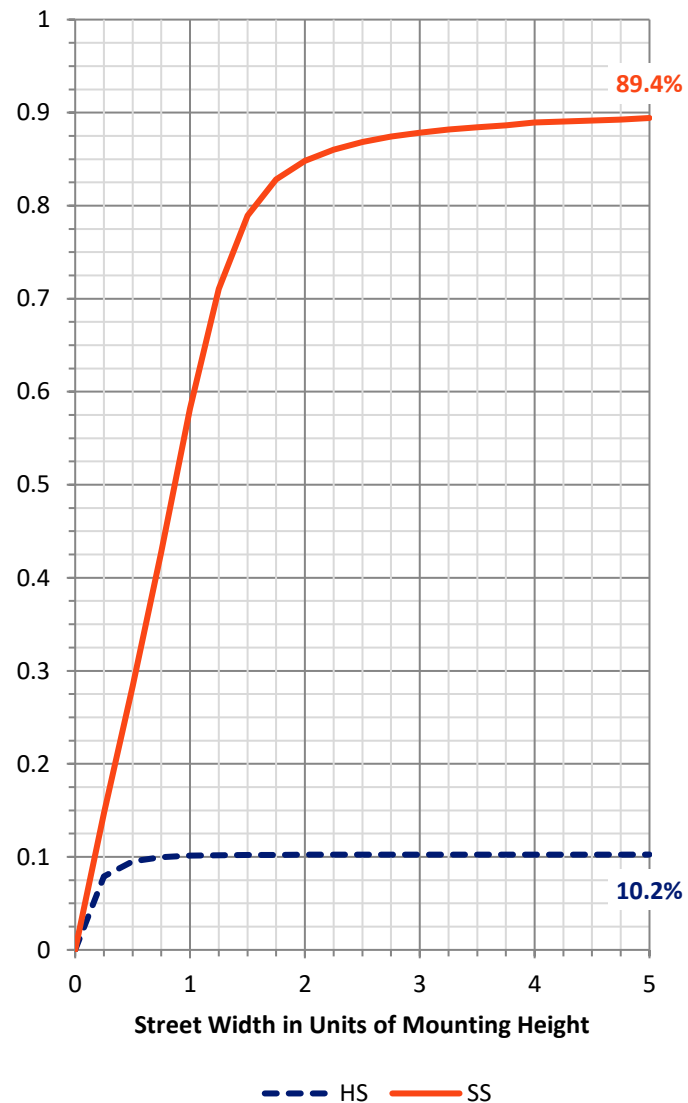
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2788.3	0.0	2788.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24173.8	0.0	24173.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	26962.0	0.0	26962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	1.9
10°-20°	1139.3	4.2
20°-30°	1632.1	6.1
30°-40°	2383.8	8.8
40°-50°	3997.3	14.8
50°-60°	6670.8	24.7
60°-70°	7080.8	26.3
70°-80°	3206.9	11.9
80°-90°	328.1	1.2
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°	26962.0	100.0
0°-180°	26962.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457794

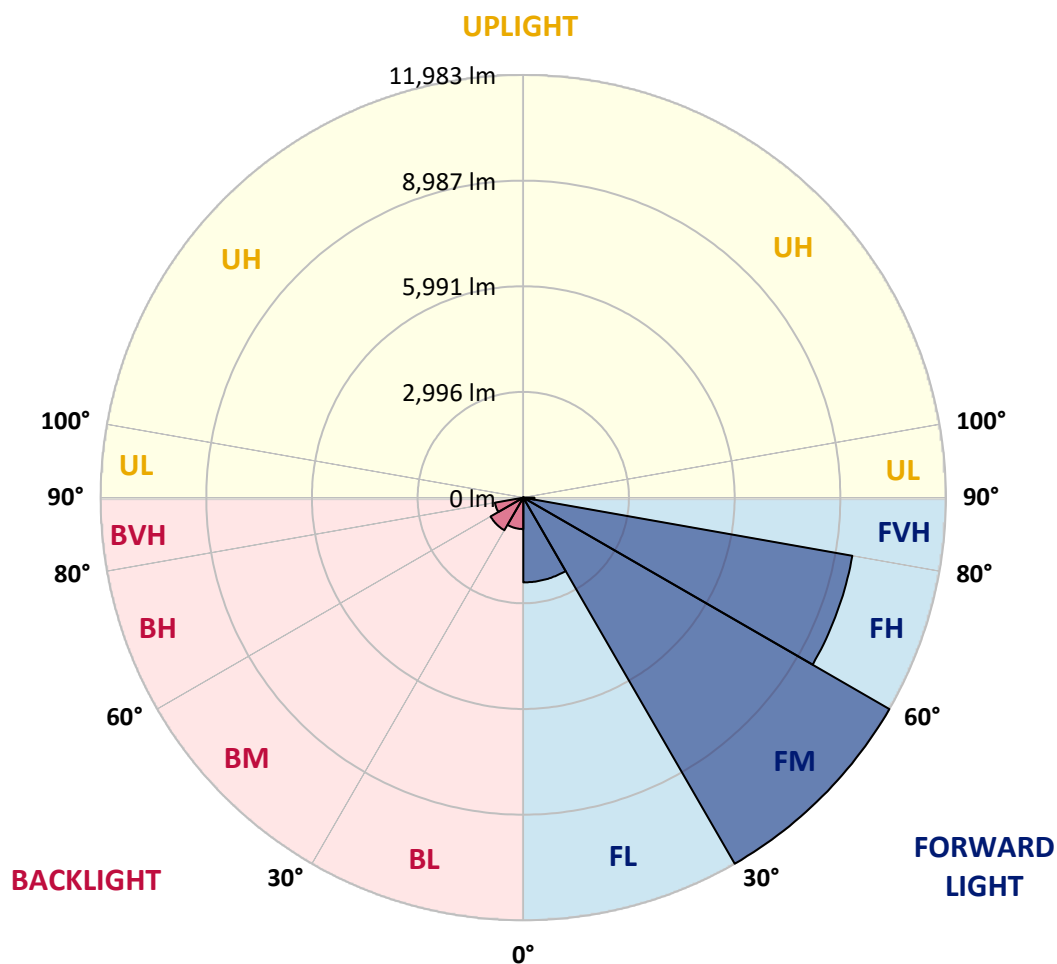
CATALOG NUMBER: GALN-SA9A-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2402.4	8.9			
FM	(30°-60°)	11982.5	44.4			
FH	(60°-80°)	9471.1	35.1			G4/12000
FVH	(80°-90°)	317.7	1.2			G3/500
BL	(0°-30°)	891.9	3.3	B2/1000		
BM	(30°-60°)	1069.3	4.0	B2/2500		
BH	(60°-80°)	816.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P457794

CATALOG NUMBER: GALN-SA9A-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7
2.5°	6737.9	6745.1	6754.3	6767.0	6776.1	6748.8	6710.5	6666.8	6657.7	6564.9	6452.0
5°	6377.3	6388.2	6468.3	6512.1	6610.4	6699.6	6756.1	6763.4	6759.7	6672.3	6492.0
7.5°	5863.8	5894.7	5973.0	6049.5	6233.4	6402.8	6603.1	6743.3	6752.4	6728.8	6504.8
10°	5446.7	5466.8	5506.8	5658.0	5811.0	6069.5	6350.0	6614.0	6635.9	6730.6	6493.8
12.5°	5120.8	5149.9	5199.1	5315.6	5499.6	5743.6	6062.3	6417.4	6462.9	6696.0	6462.9
15°	4893.1	4907.7	4956.9	5071.6	5250.1	5475.9	5798.2	6211.6	6251.6	6650.5	6457.4
17.5°	4785.7	4802.1	4836.7	4927.7	5075.2	5284.7	5599.7	6045.9	6096.9	6621.3	6477.5
20°	4814.8	4829.4	4831.2	4878.6	4978.7	5155.4	5454.0	5891.1	5956.6	6603.1	6510.2
22.5°	4980.6	4982.4	4960.5	4938.7	4973.3	5100.7	5364.8	5792.7	5860.1	6599.5	6548.5
25°	5228.2	5233.7	5197.3	5120.8	5051.6	5117.1	5344.8	5729.0	5789.1	6590.4	6572.1
27.5°	5570.6	5568.8	5557.8	5430.4	5233.7	5190.0	5361.2	5694.4	5745.4	6564.9	6581.3
30°	6049.5	6034.9	6011.3	5867.4	5566.9	5366.6	5430.4	5672.6	5719.9	6528.4	6557.6
32.5°	6521.2	6575.8	6572.1	6435.6	6060.4	5681.7	5574.2	5701.7	5736.3	6504.8	6523.0
35°	7071.1	7069.3	7209.5	7158.5	6719.7	6084.1	5820.1	5798.2	5825.5	6521.2	6506.6
37.5°	7581.0	7628.4	7846.9	7899.7	7499.1	6652.3	6167.9	6005.8	6014.9	6632.2	6546.7
40°	8216.5	8307.6	8633.6	8810.2	8456.9	7495.4	6681.4	6386.4	6388.2	6905.4	6697.8
42.5°	9036.0	9179.9	9484.0	9779.0	9589.6	8493.3	7451.7	6989.2	6985.5	7386.2	7043.8
45°	10032.1	10132.3	10478.3	10946.3	10826.1	9886.4	8573.5	7923.4	7876.0	8174.7	7657.5
47.5°	10891.7	11028.2	11379.7	11913.3	12459.6	11587.3	9913.8	9207.2	9176.2	9429.4	8710.1
50°	11266.8	11387.0	11756.7	12505.1	13829.0	13819.9	11909.6	11081.1	11028.2	11164.8	10338.1
52.5°	10855.2	10968.1	11341.5	12273.8	14473.7	16540.5	14801.4	13432.0	13368.3	13193.5	12282.9
55°	9445.8	9538.6	10090.4	11161.2	14226.0	18354.3	18785.9	16336.6	16088.9	15409.7	14484.6
57.5°	7520.9	7473.6	7815.9	9059.7	12772.8	18962.5	22876.0	19955.0	19512.5	17325.4	16347.5
60°	5211.8	5357.5	5495.9	6315.4	9604.2	17908.1	25419.9	24504.0	23921.2	19210.2	18132.1
62.5°	3831.5	3928.0	4019.0	4397.8	6038.6	14298.8	25869.7	29176.8	28659.6	21211.5	19834.8
65°	3030.2	3037.5	3073.9	3447.2	3979.0	9298.2	23708.2	31811.8	31678.9	23138.2	20525.0
66°	2760.7	2762.5	2819.0	3219.6	3571.1	7571.9	21976.4	32012.1	32085.0	23600.7	20322.8
67.5°	2412.9	2405.6	2487.5	2893.6	3252.4	5459.5	18876.9	31199.9	31631.5	23955.8	19596.3
70°	1870.2	1861.1	1961.3	2427.5	2995.6	3642.1	12547.0	26789.4	27485.0	23229.2	17338.2
72.5°	1245.6	1252.9	1424.1	1915.7	2859.0	3206.9	7548.2	20379.3	21362.7	19182.9	13639.6
75°	726.6	739.3	934.2	1424.1	2482.1	3057.5	4272.2	14531.9	15160.2	13246.3	8497.0
77.5°	380.6	386.1	522.6	939.7	1903.0	2839.0	2846.3	9283.7	9578.7	6437.4	3363.5
80°	202.1	196.7	280.4	566.3	1309.3	2493.0	2309.1	4915.0	5109.8	1912.1	850.4
82.5°	76.5	83.8	149.3	371.5	773.9	1790.1	1988.6	2172.5	2105.1	420.7	356.9
85°	14.6	18.2	63.7	220.3	389.7	748.4	1465.9	1065.3	987.0	158.4	205.8
87.5°	1.8	3.6	18.2	52.8	56.5	253.1	433.4	295.0	254.9	58.3	85.6
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°	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7	6393.7
2.5°	6397.3	6348.2	6184.3	6022.2	5856.5	5707.2	5605.2	5439.5	5397.6	5337.5	5302.9
5°	6384.6	6269.9	5954.8	5610.6	5290.1	4944.1	4680.1	4425.1	4288.6	4219.4	4193.9
7.5°	6348.2	6166.1	5674.4	5135.3	4621.8	4104.6	3654.8	3312.5	3092.1	2941.0	2839.0
10°	6275.3	6024.0	5348.4	4607.2	3831.5	3148.6	2578.6	2145.2	1810.1	1704.5	1708.1
12.5°	6200.7	5865.6	4984.2	4020.9	3059.4	2198.0	1593.4	1251.1	1090.8	1038.0	1027.1
15°	6131.5	5714.4	4627.3	3452.7	2278.1	1424.1	1027.1	906.9	863.2	854.1	852.2
17.5°	6095.0	5574.2	4246.7	2802.6	1589.8	967.0	823.1	790.3	777.6	768.5	764.8
20°	6064.1	5452.2	3882.5	2194.4	1087.2	792.2	737.5	706.6	684.7	675.6	670.1
22.5°	6042.2	5326.6	3505.5	1699.0	832.2	702.9	653.8	613.7	582.7	571.8	564.5
25°	6009.4	5188.2	3124.9	1242.0	701.1	624.6	568.2	520.8	480.8	460.7	457.1
27.5°	5962.1	5031.5	2707.9	919.6	626.4	555.4	486.2	427.9	387.9	366.0	367.9
30°	5885.6	4867.6	2290.9	730.2	566.3	484.4	409.7	353.3	315.0	298.7	296.8
32.5°	5794.6	4669.2	1908.5	626.4	511.7	420.7	342.4	293.2	264.1	251.3	249.5
35°	5709.0	4468.8	1518.8	562.7	455.3	362.4	287.7	245.8	224.0	213.1	214.9
37.5°	5661.6	4290.4	1183.7	511.7	409.7	311.4	247.7	211.2	191.2	182.1	180.3
40°	5692.6	4144.7	941.5	466.2	358.7	267.7	213.1	182.1	162.1	149.3	149.3
42.5°	5838.3	4081.0	759.4	422.5	311.4	231.3	185.7	156.6	134.8	122.0	123.8
45°	6282.6	4148.3	635.5	382.4	267.7	200.3	160.3	129.3	109.3	100.2	98.3
47.5°	7020.1	4401.5	550.0	340.5	229.5	171.2	134.8	107.4	87.4	80.1	78.3
50°	8309.4	4924.1	486.2	298.7	194.9	145.7	111.1	85.6	69.2	61.9	61.9
52.5°	10083.1	6064.1	440.7	251.3	163.9	123.8	91.1	69.2	54.6	49.2	47.3
55°	11936.9	7266.0	417.0	211.2	136.6	102.0	72.8	54.6	41.9	36.4	34.6
57.5°	13719.7	8209.3	389.7	171.2	109.3	78.3	56.5	41.9	29.1	25.5	23.7
60°	15429.7	8972.3	331.4	136.6	85.6	56.5	41.9	29.1	20.0	16.4	16.4
62.5°	16959.4	9416.6	260.4	109.3	65.6	40.1	27.3	21.9	14.6	10.9	10.9
65°	17137.8	8839.3	196.7	83.8	47.3	25.5	16.4	16.4	10.9	7.3	7.3
66°	16779.1	8349.5	173.0	76.5	41.9	21.9	14.6	12.7	9.1	5.5	5.5
67.5°	15977.8	7513.6	149.3	65.6	34.6	16.4	10.9	10.9	7.3	3.6	3.6
70°	13805.3	6136.9	118.4	49.2	25.5	12.7	7.3	7.3	5.5	3.6	3.6
72.5°	10522.0	4581.7	96.5	36.4	18.2	9.1	5.5	5.5	5.5	3.6	3.6
75°	6346.3	2467.5	74.7	27.3	16.4	7.3	3.6	5.5	7.3	5.5	3.6
77.5°	2338.2	839.5	58.3	21.9	12.7	7.3	3.6	3.6	7.3	5.5	5.5
80°	573.6	218.5	41.9	18.2	12.7	7.3	3.6	3.6	7.3	7.3	7.3
82.5°	265.9	92.9	29.1	16.4	12.7	7.3	3.6	3.6	5.5	7.3	7.3
85°	153.0	43.7	23.7	18.2	12.7	7.3	3.6	3.6	5.5	7.3	7.3
87.5°	61.9	21.9	21.9	18.2	14.6	9.1	3.6	3.6	3.6	5.5	5.5
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)