

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: P456170

Luminaire Tested: **GALN-SA7B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456170
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-SA7B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 25776 lumens
Efficiency: N/A
Efficacy: 90.1 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): 286
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

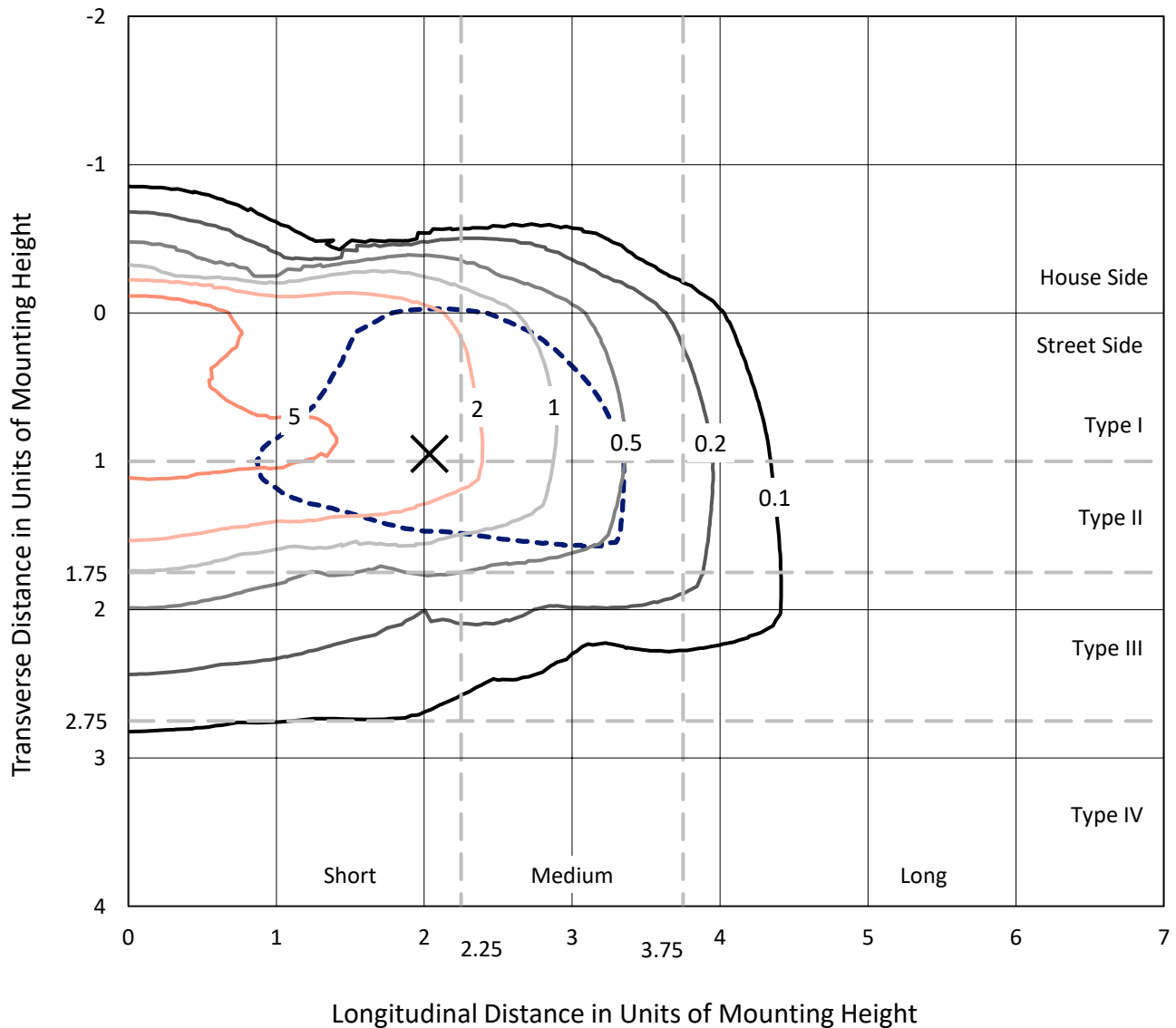


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Iso-Footcandle Lines of Horizontal Illumination

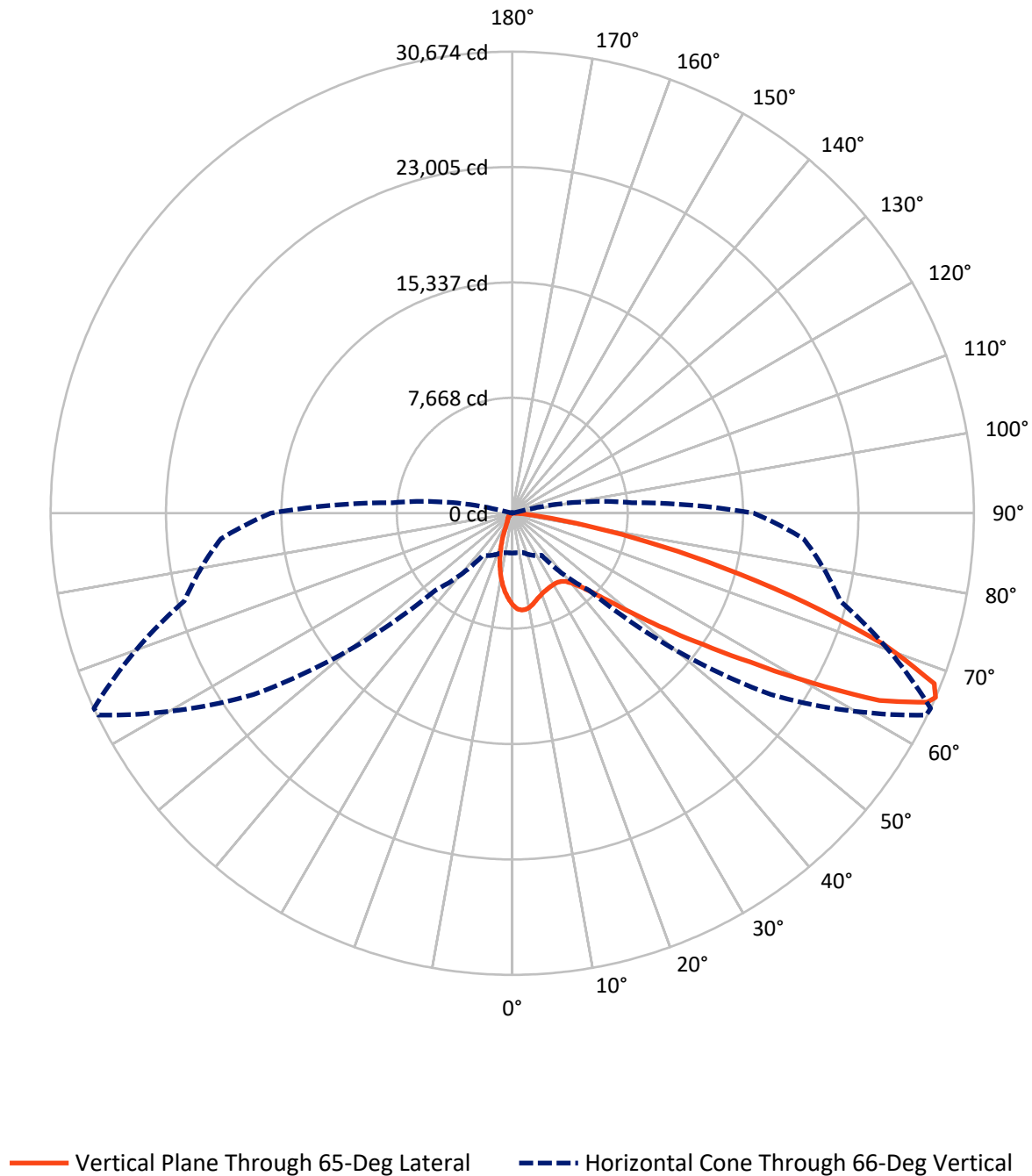
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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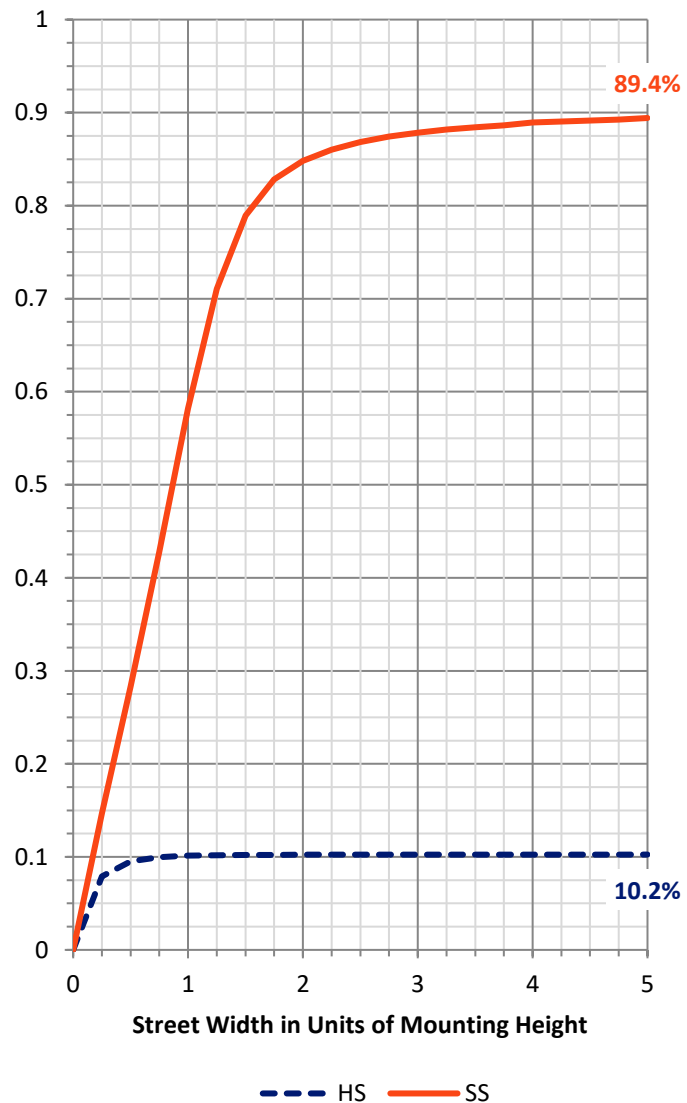
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.6	0.0	2665.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23110.4	0.0	23110.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	25776.0	0.0	25776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	1.9
10°-20°	1089.2	4.2
20°-30°	1560.3	6.1
30°-40°	2279.0	8.8
40°-50°	3821.4	14.8
50°-60°	6377.3	24.7
60°-70°	6769.3	26.3
70°-80°	3065.8	11.9
80°-90°	313.7	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°	25776.0	100.0
0°-180°	25776.0	100.0

Coefficient of Utilization



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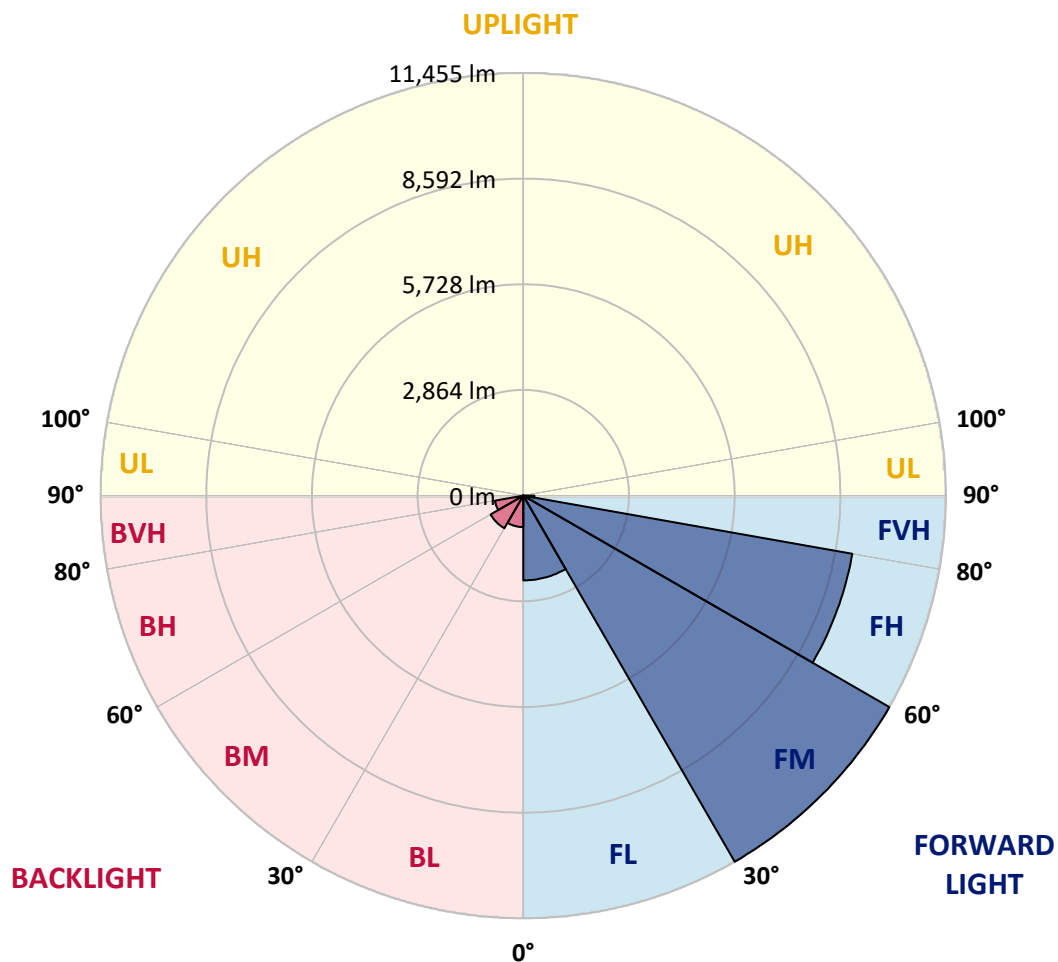
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.7	8.9			
FM	(30°-60°)	11455.4	44.4			
FH	(60°-80°)	9054.5	35.1			G4/12000
FVH	(80°-90°)	303.7	1.2			G3/500
BL	(0°-30°)	852.7	3.3	B2/1000		
BM	(30°-60°)	1022.3	4.0	B2/2500		
BH	(60°-80°)	780.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.0	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4
2.5°	6441.5	6448.4	6457.1	6469.3	6478.0	6451.9	6415.4	6373.6	6364.9	6276.1	6168.2
5°	6096.8	6107.2	6183.8	6225.6	6319.6	6404.9	6458.9	6465.9	6462.4	6378.8	6206.5
7.5°	5605.8	5635.4	5710.3	5783.4	5959.2	6121.1	6312.6	6446.7	6455.4	6432.8	6218.6
10°	5207.2	5226.3	5264.6	5409.1	5555.3	5802.6	6070.7	6323.1	6344.0	6434.5	6208.2
12.5°	4895.5	4923.4	4970.4	5081.8	5257.6	5490.9	5795.6	6135.1	6178.6	6401.4	6178.6
15°	4677.9	4691.8	4738.8	4848.5	5019.1	5235.0	5543.2	5938.3	5976.6	6357.9	6173.4
17.5°	4575.2	4590.9	4623.9	4711.0	4852.0	5052.2	5353.4	5779.9	5828.7	6330.1	6192.5
20°	4603.0	4617.0	4618.7	4664.0	4759.7	4928.6	5214.1	5631.9	5694.6	6312.6	6223.9
22.5°	4761.5	4763.2	4742.3	4721.4	4754.5	4876.4	5128.8	5537.9	5602.3	6309.2	6260.4
25°	4998.2	5003.5	4968.6	4895.5	4829.4	4892.0	5109.7	5477.0	5534.4	6300.5	6283.1
27.5°	5325.5	5323.8	5313.3	5191.5	5003.5	4961.7	5125.3	5443.9	5492.7	6276.1	6291.8
30°	5783.4	5769.5	5746.8	5609.3	5322.1	5130.6	5191.5	5423.0	5468.3	6241.3	6269.1
32.5°	6234.3	6286.5	6283.1	6152.5	5793.8	5431.7	5329.0	5450.9	5484.0	6218.6	6236.0
35°	6760.1	6758.3	6892.4	6843.6	6424.1	5816.5	5564.0	5543.2	5569.3	6234.3	6220.4
37.5°	7247.5	7292.8	7501.7	7552.2	7169.2	6359.7	5896.6	5741.6	5750.3	6340.5	6258.7
40°	7855.1	7942.2	8253.8	8422.7	8084.9	7165.7	6387.5	6105.5	6107.2	6601.6	6403.2
42.5°	8638.5	8776.1	9066.8	9348.8	9167.8	8119.7	7123.9	6681.7	6678.2	7061.3	6734.0
45°	9590.8	9686.6	10017.4	10464.8	10349.9	9451.6	8196.3	7574.8	7529.6	7815.1	7320.7
47.5°	10412.6	10543.1	10879.1	11389.2	11911.5	11077.6	9477.7	8802.2	8772.6	9014.6	8326.9
50°	10771.2	10886.1	11239.5	11955.0	13220.7	13212.0	11385.7	10593.6	10543.1	10673.7	9883.3
52.5°	10377.7	10485.7	10842.6	11733.9	13837.0	15813.0	14150.4	12841.2	12780.2	12613.1	11742.6
55°	9030.3	9119.0	9646.5	10670.2	13600.2	17546.9	17959.5	15618.0	15381.2	14731.8	13847.4
57.5°	7190.1	7144.8	7472.1	8661.2	12211.0	18128.4	21869.7	19077.2	18654.2	16563.3	15628.4
60°	4982.6	5121.8	5254.2	6037.6	9181.7	17120.4	24301.8	23426.1	22869.0	18365.2	17334.5
62.5°	3662.9	3755.2	3842.3	4204.4	5773.0	13669.9	24731.8	27893.3	27398.9	20278.5	18962.3
65°	2896.9	2903.9	2938.7	3295.6	3804.0	8889.2	22665.3	30412.5	30285.4	22120.4	19622.1
66°	2639.3	2641.0	2695.0	3078.0	3414.0	7238.8	21009.7	30604.0	30673.6	22562.6	19428.9
67.5°	2306.7	2299.8	2378.1	2766.4	3109.3	5219.3	18046.6	29827.5	30240.1	22902.1	18734.3
70°	1787.9	1779.2	1875.0	2320.7	2863.8	3481.9	11995.1	25611.0	26276.0	22207.4	16575.5
72.5°	1190.8	1197.8	1361.4	1831.5	2733.3	3065.8	7216.2	19482.9	20423.0	18339.1	13039.6
75°	694.6	706.8	893.1	1361.4	2372.9	2923.0	4084.2	13892.7	14493.3	12663.6	8123.2
77.5°	363.9	369.1	499.6	898.3	1819.3	2714.1	2721.1	8875.3	9157.3	6154.2	3215.5
80°	193.2	188.0	268.1	541.4	1251.7	2383.3	2207.5	4698.8	4885.1	1828.0	813.0
82.5°	73.1	80.1	142.8	355.2	739.9	1711.3	1901.1	2076.9	2012.5	402.2	341.2
85°	13.9	17.4	60.9	210.7	372.6	715.5	1401.5	1018.4	943.6	151.5	196.7
87.5°	1.7	3.5	17.4	50.5	54.0	242.0	414.3	282.0	243.7	55.7	81.8
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°	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4	6112.4
2.5°	6115.9	6068.9	5912.2	5757.3	5598.9	5456.1	5358.6	5200.2	5160.1	5102.7	5069.6
5°	6103.7	5994.1	5692.9	5363.8	5057.4	4726.7	4474.2	4230.5	4099.9	4033.8	4009.4
7.5°	6068.9	5894.8	5424.8	4909.5	4418.5	3924.1	3494.1	3166.8	2956.1	2811.6	2714.1
10°	5999.3	5759.0	5113.1	4404.6	3662.9	3010.1	2465.2	2050.8	1730.5	1629.5	1633.0
12.5°	5927.9	5607.6	4765.0	3844.0	2924.8	2101.3	1523.3	1196.0	1042.8	992.3	981.9
15°	5861.7	5463.1	4423.7	3300.8	2177.9	1361.4	981.9	867.0	825.2	816.5	814.8
17.5°	5826.9	5329.0	4059.9	2679.3	1519.8	924.4	786.9	755.6	743.4	734.7	731.2
20°	5797.3	5212.4	3711.7	2097.8	1039.3	757.3	705.1	675.5	654.6	645.9	640.7
22.5°	5776.4	5092.2	3351.3	1624.3	795.6	672.0	625.0	586.7	557.1	546.7	539.7
25°	5745.1	4959.9	2987.5	1187.3	670.3	597.1	543.2	497.9	459.6	440.5	437.0
27.5°	5699.8	4810.2	2588.8	879.2	598.9	531.0	464.8	409.1	370.8	349.9	351.7
30°	5626.7	4653.5	2190.1	698.1	541.4	463.1	391.7	337.7	301.2	285.5	283.8
32.5°	5539.7	4463.8	1824.5	598.9	489.2	402.2	327.3	280.3	252.4	240.2	238.5
35°	5457.8	4272.3	1451.9	538.0	435.2	346.4	275.1	235.0	214.1	203.7	205.4
37.5°	5412.6	4101.7	1131.6	489.2	391.7	297.7	236.8	201.9	182.8	174.1	172.4
40°	5442.2	3962.4	900.1	445.7	343.0	255.9	203.7	174.1	154.9	142.8	142.8
42.5°	5581.5	3901.4	726.0	403.9	297.7	221.1	177.6	149.7	128.8	116.6	118.4
45°	6006.2	3965.9	607.6	365.6	255.9	191.5	153.2	123.6	104.5	95.8	94.0
47.5°	6711.3	4207.9	525.8	325.6	219.4	163.6	128.8	102.7	83.6	76.6	74.9
50°	7943.9	4707.5	464.8	285.5	186.3	139.3	106.2	81.8	66.2	59.2	59.2
52.5°	9639.6	5797.3	421.3	240.2	156.7	118.4	87.0	66.2	52.2	47.0	45.3
55°	11411.9	6946.4	398.7	201.9	130.6	97.5	69.6	52.2	40.0	34.8	33.1
57.5°	13116.2	7848.2	372.6	163.6	104.5	74.9	54.0	40.0	27.9	24.4	22.6
60°	14751.0	8577.6	316.9	130.6	81.8	54.0	40.0	27.9	19.2	15.7	15.7
62.5°	16213.4	9002.4	249.0	104.5	62.7	38.3	26.1	20.9	13.9	10.4	10.4
65°	16384.0	8450.5	188.0	80.1	45.3	24.4	15.7	15.7	10.4	7.0	7.0
66°	16041.0	7982.2	165.4	73.1	40.0	20.9	13.9	12.2	8.7	5.2	5.2
67.5°	15275.0	7183.1	142.8	62.7	33.1	15.7	10.4	10.4	7.0	3.5	3.5
70°	13198.1	5867.0	113.2	47.0	24.4	12.2	7.0	7.0	5.2	3.5	3.5
72.5°	10059.2	4380.2	92.3	34.8	17.4	8.7	5.2	5.2	5.2	3.5	3.5
75°	6067.2	2359.0	71.4	26.1	15.7	7.0	3.5	5.2	7.0	5.2	3.5
77.5°	2235.4	802.6	55.7	20.9	12.2	7.0	3.5	3.5	7.0	5.2	5.2
80°	548.4	208.9	40.0	17.4	12.2	7.0	3.5	3.5	7.0	7.0	7.0
82.5°	254.2	88.8	27.9	15.7	12.2	7.0	3.5	3.5	5.2	7.0	7.0
85°	146.2	41.8	22.6	17.4	12.2	7.0	3.5	3.5	5.2	7.0	7.0
87.5°	59.2	20.9	20.9	17.4	13.9	8.7	3.5	3.5	3.5	5.2	5.2
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)