

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: P455938

Luminaire Tested: **GALN-SA7A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455938
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-SA7A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 20715 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 215
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

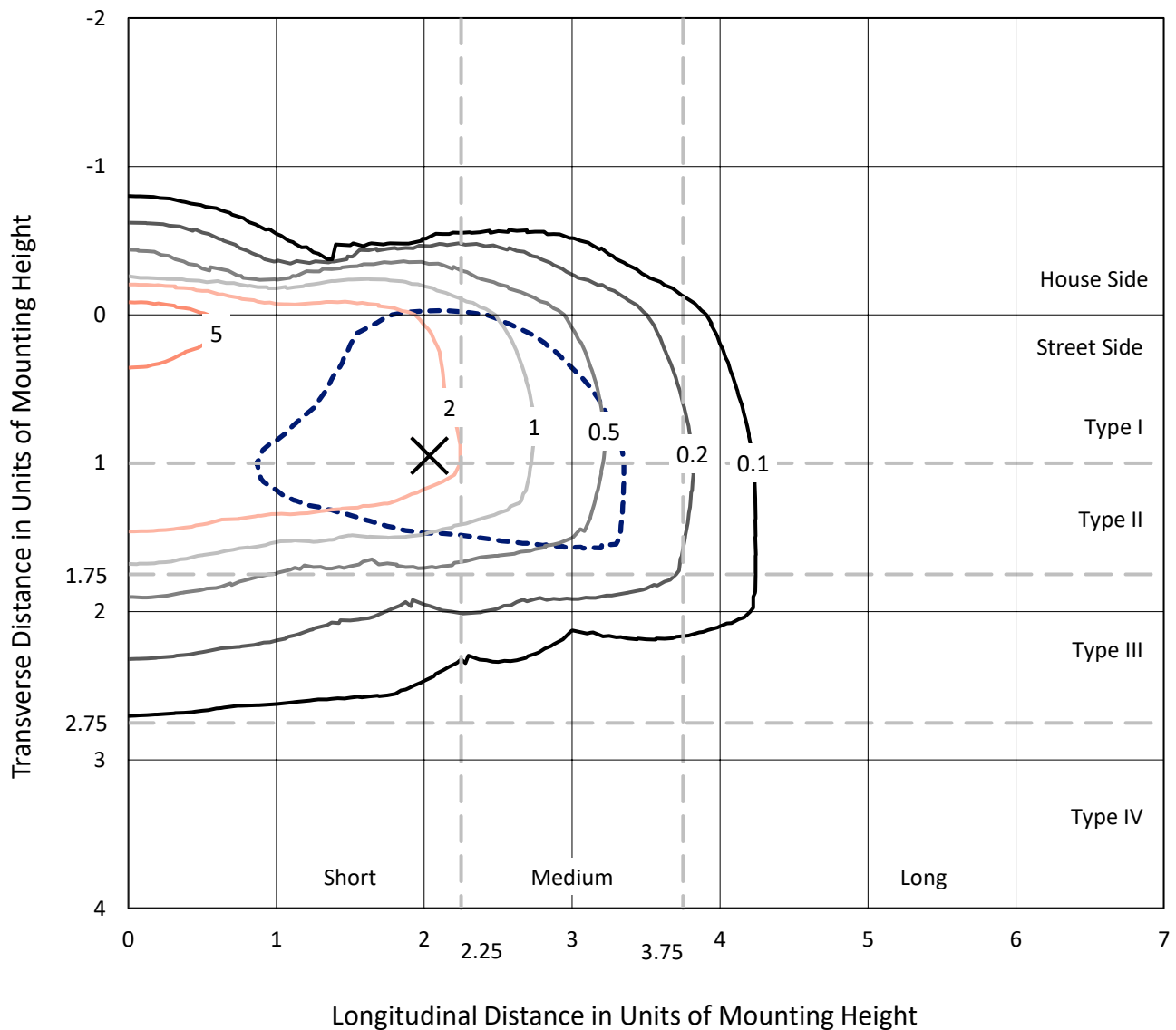


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Iso-Footcandle Lines of Horizontal Illumination

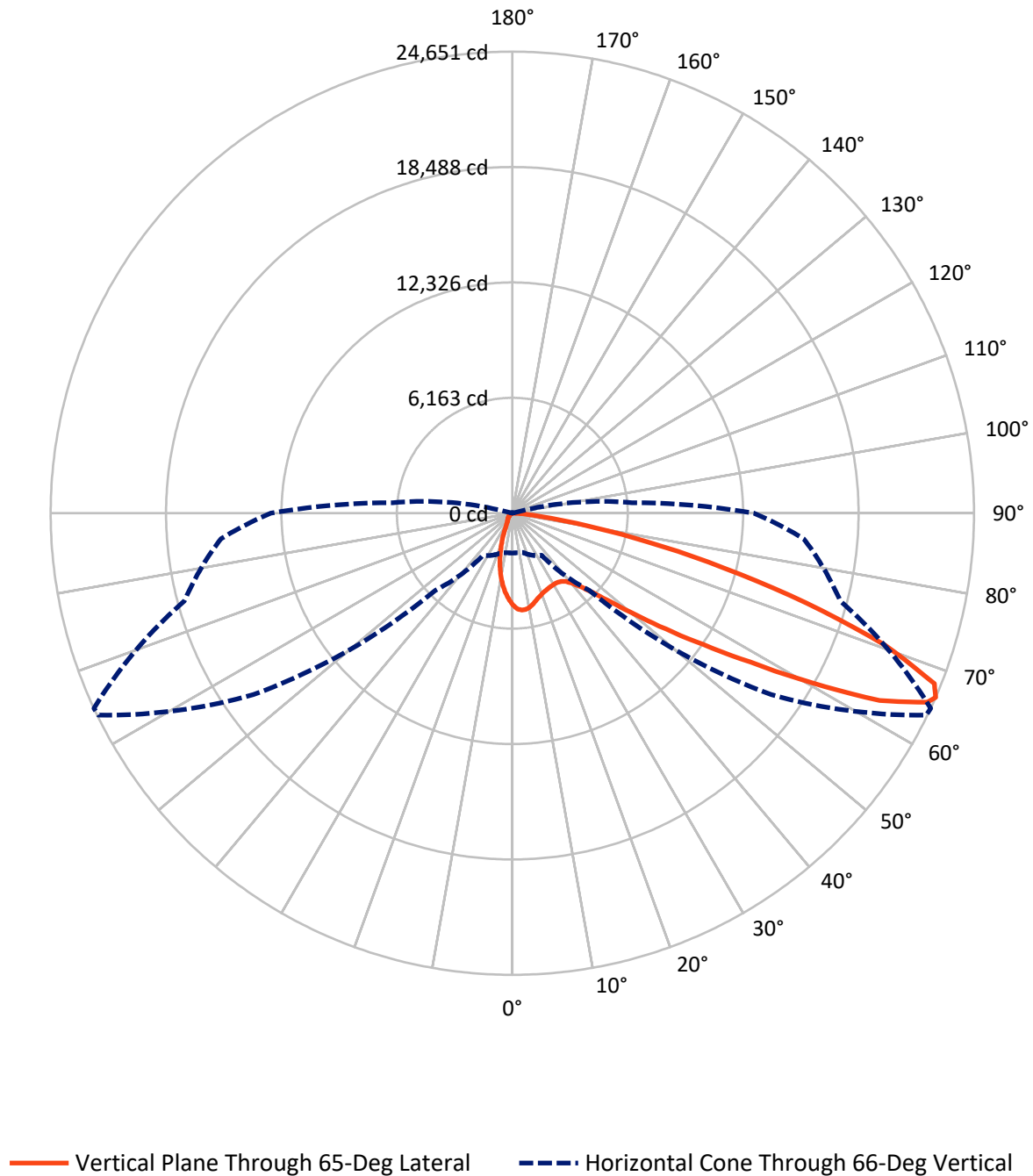
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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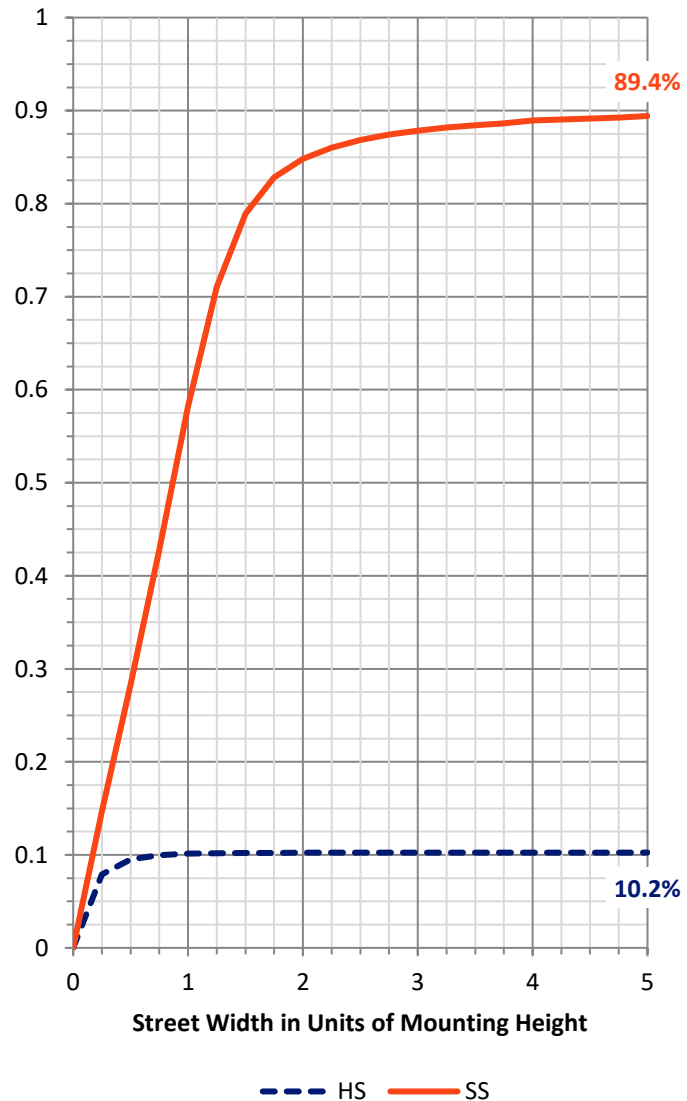
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2142.2	0.0	2142.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18572.8	0.0	18572.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	20715.0	0.0	20715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	1.9
10°-20°	875.4	4.2
20°-30°	1254.0	6.1
30°-40°	1831.5	8.8
40°-50°	3071.1	14.8
50°-60°	5125.2	24.7
60°-70°	5440.2	26.3
70°-80°	2463.9	11.9
80°-90°	252.1	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°	20715.0	100.0
0°-180°	20715.0	100.0

Coefficient of Utilization



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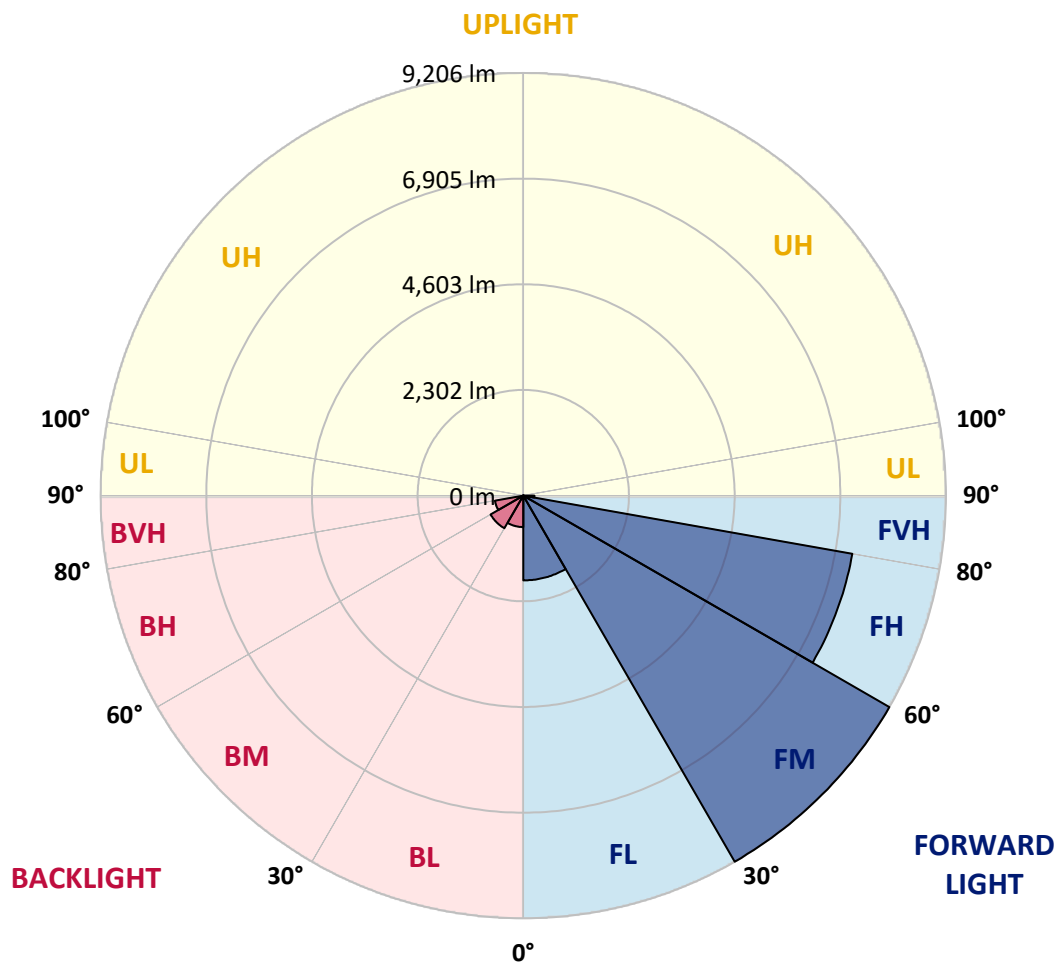
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.8	8.9			
FM	(30°-60°)	9206.2	44.4			
FH	(60°-80°)	7276.7	35.1			G3/7500
FVH	(80°-90°)	244.1	1.2			G3/500
BL	(0°-30°)	685.3	3.3	B2/1000		
BM	(30°-60°)	821.6	4.0	B1/1000		
BH	(60°-80°)	627.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	8.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
2.5°	5176.7	5182.3	5189.3	5199.1	5206.1	5185.1	5155.7	5122.2	5115.2	5043.8	4957.1
5°	4899.7	4908.1	4969.7	5003.2	5078.8	5147.3	5190.7	5196.3	5193.5	5126.4	4987.8
7.5°	4505.1	4528.9	4589.1	4647.9	4789.2	4919.3	5073.2	5180.9	5187.9	5169.7	4997.6
10°	4184.8	4200.1	4230.9	4347.0	4464.6	4663.2	4878.7	5081.6	5098.4	5171.1	4989.2
12.5°	3934.3	3956.7	3994.5	4084.0	4225.3	4412.8	4657.7	4930.5	4965.5	5144.5	4965.5
15°	3759.4	3770.6	3808.4	3896.5	4033.6	4207.1	4454.8	4772.4	4803.2	5109.6	4961.3
17.5°	3676.9	3689.5	3716.0	3786.0	3899.3	4060.2	4302.3	4645.1	4684.2	5087.2	4976.6
20°	3699.3	3710.5	3711.9	3748.2	3825.2	3960.9	4190.3	4526.1	4576.5	5073.2	5001.8
22.5°	3826.6	3828.0	3811.2	3794.4	3821.0	3918.9	4121.8	4450.6	4502.3	5070.4	5031.2
25°	4016.9	4021.1	3993.1	3934.3	3881.1	3931.5	4106.4	4401.6	4447.8	5063.4	5049.4
27.5°	4279.9	4278.5	4270.1	4172.2	4021.1	3987.5	4119.0	4375.0	4414.2	5043.8	5056.4
30°	4647.9	4636.7	4618.5	4507.9	4277.1	4123.2	4172.2	4358.2	4394.6	5015.8	5038.2
32.5°	5010.2	5052.2	5049.4	4944.5	4656.3	4365.2	4282.7	4380.6	4407.2	4997.6	5011.6
35°	5432.8	5431.4	5539.1	5499.9	5162.7	4674.4	4471.6	4454.8	4475.8	5010.2	4999.0
37.5°	5824.5	5860.9	6028.8	6069.4	5761.6	5111.0	4738.8	4614.3	4621.3	5095.6	5029.8
40°	6312.8	6382.8	6633.2	6768.9	6497.5	5758.8	5133.4	4906.7	4908.1	5305.4	5145.9
42.5°	6942.4	7052.9	7286.6	7513.2	7367.7	6525.5	5725.2	5369.8	5367.0	5674.8	5411.8
45°	7707.7	7784.7	8050.5	8410.1	8317.7	7595.8	6587.0	6087.5	6051.2	6280.6	5883.3
47.5°	8368.1	8473.0	8743.1	9153.0	9572.7	8902.6	7616.8	7073.9	7050.1	7244.6	6692.0
50°	8656.3	8748.7	9032.7	9607.7	10624.9	10617.9	9150.2	8513.6	8473.0	8578.0	7942.8
52.5°	8340.1	8426.9	8713.7	9430.0	11120.2	12708.2	11372.0	10319.9	10270.9	10136.6	9437.0
55°	7257.2	7328.6	7752.5	8575.2	10929.9	14101.7	14433.3	12551.5	12361.2	11839.3	11128.6
57.5°	5778.3	5742.0	6005.0	6960.6	9813.4	14569.0	17575.7	15331.5	14991.5	13311.2	12559.8
60°	4004.3	4116.2	4222.5	4852.1	7378.9	13758.9	19530.2	18826.5	18378.8	14759.3	13931.0
62.5°	2943.7	3017.9	3087.8	3378.9	4639.5	10985.8	19875.8	22416.6	22019.3	16296.9	15239.2
65°	2328.1	2333.7	2361.7	2648.5	3057.1	7143.9	18215.1	24441.1	24339.0	17777.1	15769.4
66°	2121.1	2122.5	2165.8	2473.6	2743.7	5817.5	16884.5	24595.0	24651.0	18132.5	15614.1
67.5°	1853.8	1848.2	1911.2	2223.2	2498.8	4194.5	14503.2	23971.0	24302.6	18405.3	15055.9
70°	1436.9	1429.9	1506.8	1865.0	2301.5	2798.2	9639.9	20582.4	21116.8	17847.1	13321.0
72.5°	957.0	962.6	1094.1	1471.9	2196.6	2463.8	5799.3	15657.5	16413.0	14738.3	10479.4
75°	558.2	568.0	717.7	1094.1	1907.0	2349.1	3282.3	11164.9	11647.6	10177.2	6528.3
77.5°	292.4	296.6	401.5	721.9	1462.1	2181.2	2186.8	7132.7	7359.3	4945.9	2584.2
80°	155.3	151.1	215.5	435.1	1006.0	1915.4	1774.1	3776.2	3925.9	1469.1	653.4
82.5°	58.8	64.4	114.7	285.4	594.6	1375.3	1527.8	1669.1	1617.4	323.2	274.2
85°	11.2	14.0	49.0	169.3	299.4	575.0	1126.3	818.5	758.3	121.7	158.1
87.5°	1.4	2.8	14.0	40.6	43.4	194.5	333.0	226.7	195.9	44.8	65.8
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°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
2.5°	4915.1	4877.3	4751.4	4626.9	4499.6	4384.8	4306.5	4179.2	4147.0	4100.8	4074.2
5°	4905.3	4817.2	4575.1	4310.7	4064.4	3798.6	3595.7	3399.8	3294.9	3241.7	3222.2
7.5°	4877.3	4737.4	4359.6	3945.5	3551.0	3153.6	2808.0	2545.0	2375.7	2259.6	2181.2
10°	4821.3	4628.3	4109.2	3539.8	2943.7	2419.1	1981.1	1648.2	1390.7	1309.6	1312.4
12.5°	4764.0	4506.5	3829.4	3089.2	2350.5	1688.7	1224.2	961.2	838.1	797.5	789.1
15°	4710.8	4390.4	3555.1	2652.7	1750.3	1094.1	789.1	696.8	663.2	656.2	654.8
17.5°	4682.8	4282.7	3262.7	2153.2	1221.4	742.9	632.4	607.2	597.4	590.4	587.6
20°	4659.1	4188.9	2982.9	1685.9	835.3	608.6	566.6	542.9	526.1	519.1	514.9
22.5°	4642.3	4092.4	2693.3	1305.4	639.4	540.1	502.3	471.5	447.7	439.3	433.7
25°	4617.1	3986.1	2400.9	954.2	538.7	479.9	436.5	400.1	369.4	354.0	351.2
27.5°	4580.7	3865.8	2080.5	706.6	481.3	426.7	373.6	328.8	298.0	281.2	282.6
30°	4521.9	3739.8	1760.1	561.0	435.1	372.2	314.8	271.4	242.0	229.5	228.1
32.5°	4452.0	3587.3	1466.3	481.3	393.2	323.2	263.0	225.3	202.9	193.1	191.7
35°	4386.2	3433.4	1166.9	432.3	349.8	278.4	221.1	188.9	172.1	163.7	165.1
37.5°	4349.8	3296.3	909.4	393.2	314.8	239.2	190.3	162.3	146.9	139.9	138.5
40°	4373.6	3184.4	723.3	358.2	275.6	205.7	163.7	139.9	124.5	114.7	114.7
42.5°	4485.6	3135.4	583.4	324.6	239.2	177.7	142.7	120.3	103.5	93.7	95.1
45°	4826.9	3187.2	488.3	293.8	205.7	153.9	123.1	99.3	83.9	77.0	75.6
47.5°	5393.6	3381.7	422.5	261.6	176.3	131.5	103.5	82.5	67.2	61.6	60.2
50°	6384.2	3783.2	373.6	229.5	149.7	111.9	85.3	65.8	53.2	47.6	47.6
52.5°	7746.9	4659.1	338.6	193.1	125.9	95.1	70.0	53.2	42.0	37.8	36.4
55°	9171.2	5582.5	320.4	162.3	104.9	78.4	56.0	42.0	32.2	28.0	26.6
57.5°	10540.9	6307.2	299.4	131.5	83.9	60.2	43.4	32.2	22.4	19.6	18.2
60°	11854.7	6893.4	254.6	104.9	65.8	43.4	32.2	22.4	15.4	12.6	12.6
62.5°	13030.0	7234.8	200.1	83.9	50.4	30.8	21.0	16.8	11.2	8.4	8.4
65°	13167.1	6791.3	151.1	64.4	36.4	19.6	12.6	12.6	8.4	5.6	5.6
66°	12891.4	6414.9	132.9	58.8	32.2	16.8	11.2	9.8	7.0	4.2	4.2
67.5°	12275.8	5772.7	114.7	50.4	26.6	12.6	8.4	8.4	5.6	2.8	2.8
70°	10606.7	4715.0	90.9	37.8	19.6	9.8	5.6	5.6	4.2	2.8	2.8
72.5°	8084.1	3520.2	74.2	28.0	14.0	7.0	4.2	4.2	4.2	2.8	2.8
75°	4875.9	1895.8	57.4	21.0	12.6	5.6	2.8	4.2	5.6	4.2	2.8
77.5°	1796.5	645.0	44.8	16.8	9.8	5.6	2.8	2.8	5.6	4.2	4.2
80°	440.7	167.9	32.2	14.0	9.8	5.6	2.8	2.8	5.6	5.6	5.6
82.5°	204.3	71.4	22.4	12.6	9.8	5.6	2.8	2.8	4.2	5.6	5.6
85°	117.5	33.6	18.2	14.0	9.8	5.6	2.8	2.8	4.2	5.6	5.6
87.5°	47.6	16.8	16.8	14.0	11.2	7.0	2.8	2.8	2.8	4.2	4.2
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)