

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: P456870

Luminaire Tested: **GALN-SA8A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24138 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): 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

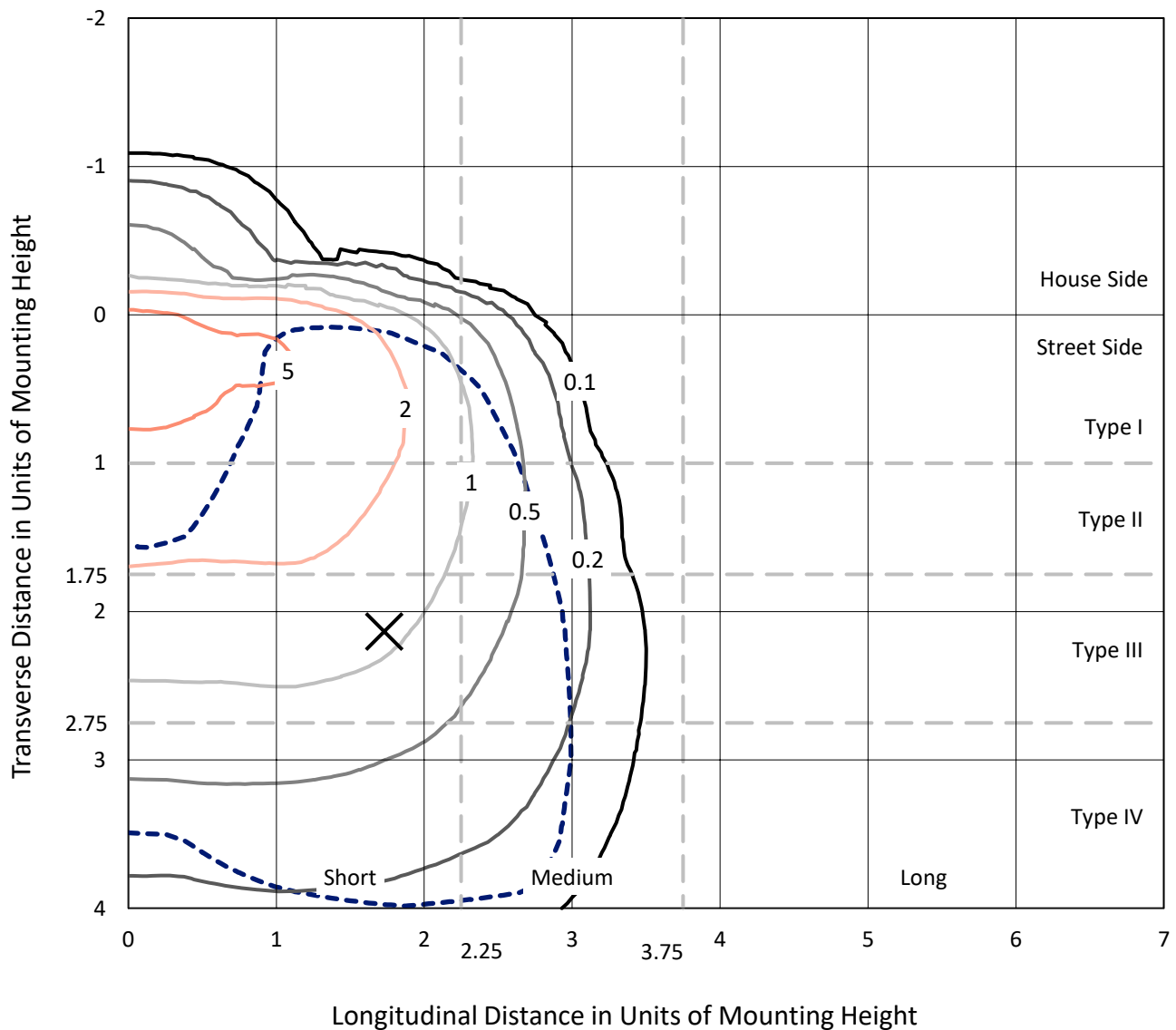


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Iso-Footcandle Lines of Horizontal Illumination

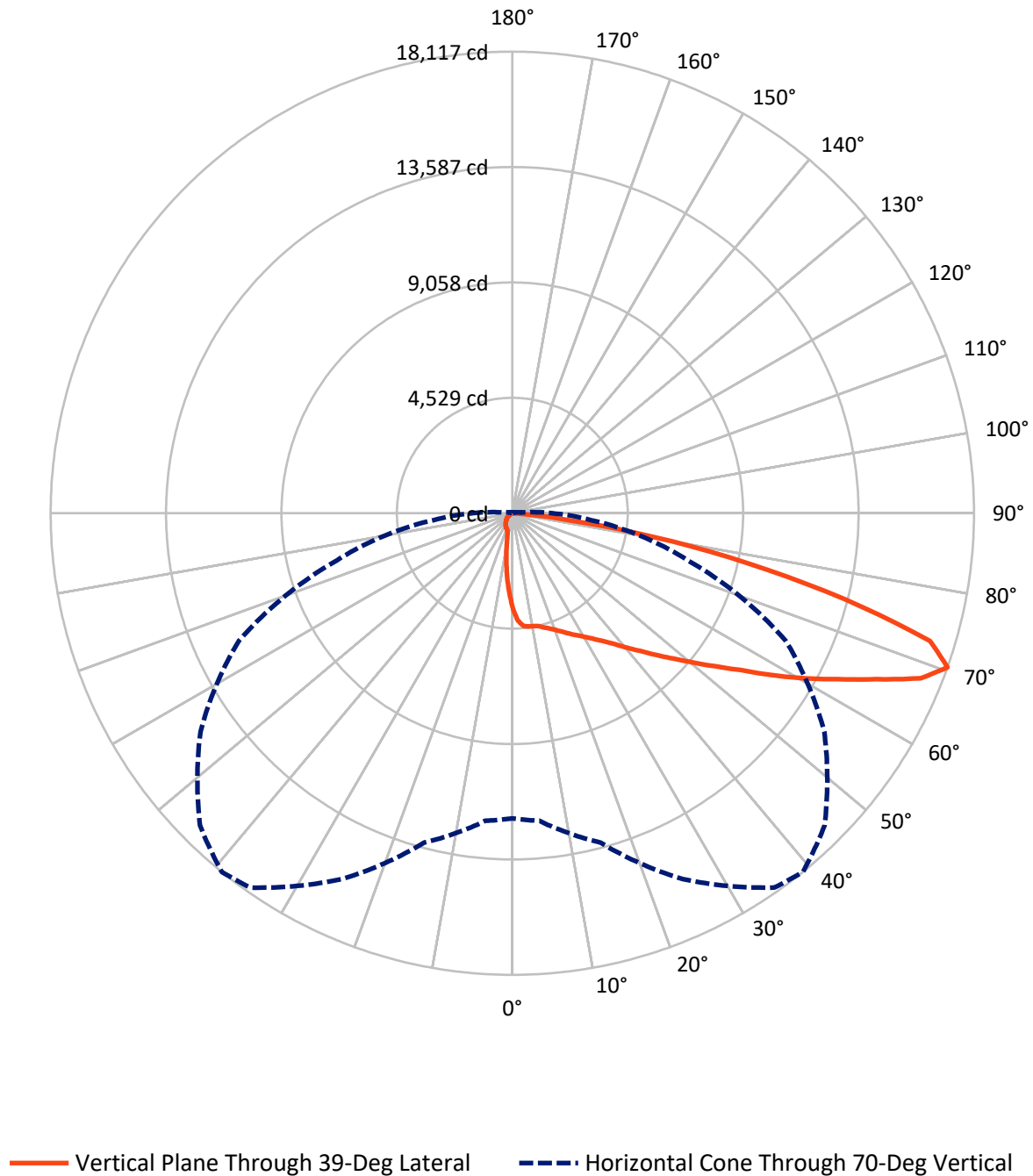
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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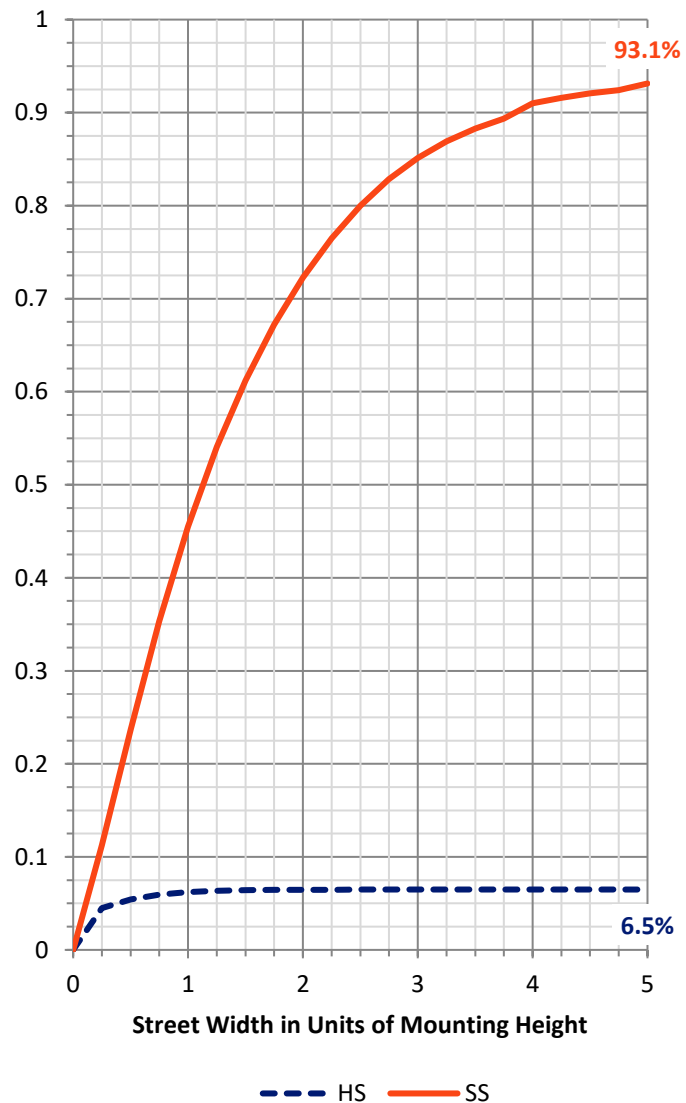
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.9	0.0	1573.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22564.1	0.0	22564.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	24138.0	0.0	24138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	1.3
10°-20°	834.8	3.5
20°-30°	1398.6	5.8
30°-40°	2169.0	9.0
40°-50°	3437.2	14.2
50°-60°	5038.4	20.9
60°-70°	6458.0	26.8
70°-80°	4058.0	16.8
80°-90°	422.8	1.8
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°	24138.0	100.0
0°-180°	24138.0	100.0

Coefficient of Utilization



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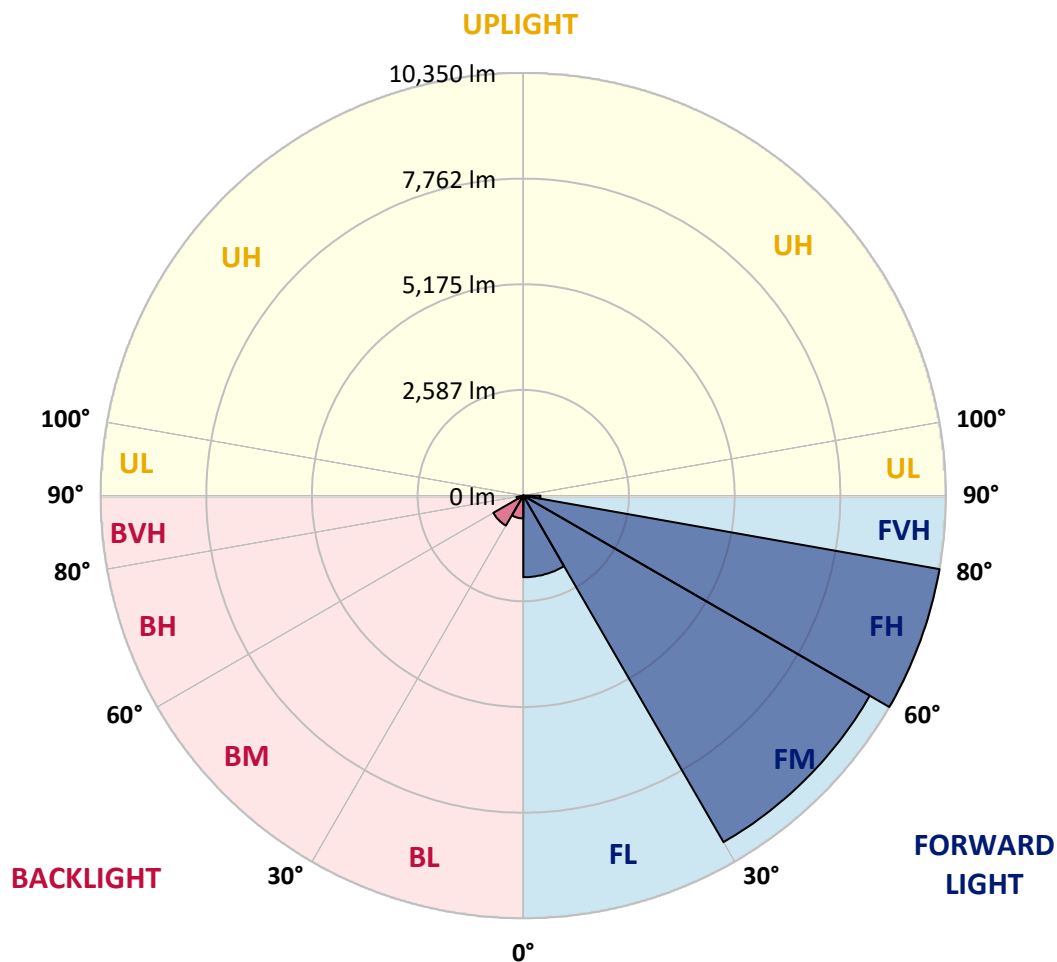
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1997.3	8.3			
FM	(30°-60°)	9797.6	40.6			
FH	(60°-80°)	10349.6	42.9			G4/12000
FVH	(80°-90°)	419.6	1.7			G3/500
BL	(0°-30°)	557.3	2.3	B2/1000		
BM	(30°-60°)	847.0	3.5	B1/1000		
BH	(60°-80°)	166.5	0.7	B1/500		G1/500
BVH	(80°-90°)	3.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4
2.5°	4351.9	4337.3	4317.8	4295.1	4230.3	4218.9	4180.0	4097.3	3998.3	3917.2	3805.3
5°	4557.9	4566.0	4551.4	4510.9	4463.8	4436.3	4387.6	4259.5	4131.3	3967.5	3784.2
7.5°	4604.9	4621.2	4603.3	4564.4	4519.0	4489.8	4450.9	4340.6	4191.3	4004.8	3753.4
10°	4600.1	4619.5	4608.2	4572.5	4535.2	4507.6	4465.5	4377.9	4257.8	4061.6	3763.1
12.5°	4592.0	4617.9	4616.3	4598.5	4567.6	4546.6	4520.6	4442.7	4330.8	4144.3	3816.6
15°	4569.3	4601.7	4630.9	4645.5	4647.1	4647.1	4614.7	4532.0	4424.9	4253.0	3886.4
17.5°	4579.0	4616.3	4689.3	4731.5	4760.7	4757.4	4723.4	4634.1	4515.7	4364.9	3959.4
20°	4639.0	4689.3	4791.5	4875.8	4905.0	4895.3	4849.9	4746.1	4611.4	4460.6	4030.7
22.5°	4786.6	4832.0	4960.2	5059.1	5080.2	5054.2	4989.4	4848.3	4726.6	4564.4	4116.7
25°	5007.2	5060.7	5179.1	5253.8	5253.8	5239.2	5148.3	4982.9	4856.4	4708.8	4228.6
27.5°	5274.8	5320.3	5437.0	5503.6	5464.6	5422.4	5331.6	5132.1	5010.5	4890.4	4363.3
30°	5545.7	5574.9	5698.2	5727.4	5686.8	5633.3	5536.0	5336.5	5229.4	5137.0	4557.9
32.5°	5802.0	5865.3	5967.5	5961.0	5905.8	5879.9	5790.7	5578.2	5518.1	5508.4	4830.4
35°	6058.3	6106.9	6197.8	6220.5	6171.8	6167.0	6102.1	5944.7	5946.4	6009.6	5255.4
37.5°	6278.9	6322.7	6429.7	6480.0	6489.7	6514.1	6488.1	6384.3	6531.9	6705.5	5818.2
40°	6463.8	6525.4	6661.7	6749.3	6849.8	6939.0	6943.9	6966.6	7263.5	7561.9	6553.0
42.5°	6608.2	6694.1	6892.0	7054.2	7284.5	7398.1	7488.9	7613.8	8113.4	8559.5	7419.2
45°	6796.3	6895.3	7141.8	7396.5	7756.6	7943.1	8069.6	8403.7	9112.6	9720.8	8308.0
47.5°	7107.7	7159.6	7411.1	7782.5	8256.1	8522.2	8768.7	9274.8	10184.7	10729.7	9047.7
50°	7508.4	7542.4	7732.2	8248.0	8861.2	9211.5	9660.8	10256.1	11297.4	11566.7	9466.2
52.5°	7951.2	7962.6	8105.3	8760.6	9539.2	9980.4	10483.2	11218.0	12204.2	12163.6	9743.5
55°	8465.4	8449.2	8570.8	9316.9	10342.1	10846.5	11432.1	12202.5	12990.8	12587.0	9902.5
57.5°	9054.2	9010.4	9128.8	10055.0	11370.4	11973.8	12569.1	13052.5	13600.7	12942.2	9978.7
60°	9670.5	9583.0	9724.1	10883.8	12582.1	13154.7	13649.4	13779.2	14243.1	13224.4	9847.4
62.5°	10162.0	10163.6	10426.4	11766.2	13827.8	14329.0	14591.8	14708.6	14796.2	13162.8	9156.4
65°	10929.2	10955.2	11375.3	12990.8	15269.8	15704.5	15884.5	15505.0	14820.5	12397.2	8118.3
67.5°	11720.8	11803.5	12572.4	14677.8	16935.6	17286.0	17054.0	15659.1	14158.7	10650.3	6155.6
70°	11978.7	12114.9	13381.8	15839.1	17934.8	18116.5	17331.4	14940.5	11836.0	7120.7	3098.1
72.5°	10976.3	11196.9	12916.2	15415.8	17297.3	17140.0	15506.6	12530.2	7524.6	2703.9	945.6
75°	7740.3	7837.7	10734.6	12788.1	13912.2	13466.1	11795.4	8077.7	3094.8	759.1	324.4
77.5°	3996.7	3949.6	6384.3	8484.8	9922.0	9459.7	7724.1	4181.6	1172.7	316.3	201.1
80°	2066.5	2100.5	2762.3	4446.0	6056.7	5573.3	4118.3	1938.3	624.5	175.2	154.1
82.5°	1158.1	1086.8	1588.0	1941.6	2832.1	2220.6	1579.9	1372.2	272.5	105.4	146.0
85°	210.9	220.6	871.0	1049.5	983.0	624.5	509.3	916.4	79.5	58.4	102.2
87.5°	3.2	3.2	168.7	301.7	191.4	87.6	160.6	131.4	16.2	22.7	17.8
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°	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4	3766.4
2.5°	3748.5	3686.9	3571.7	3458.2	3313.8	3195.4	3115.9	3033.2	2948.9	2955.3	2974.8
5°	3683.6	3576.6	3349.5	3109.4	2879.1	2671.5	2467.1	2283.8	2209.2	2141.1	2144.3
7.5°	3618.8	3467.9	3135.4	2759.1	2410.3	2056.7	1800.5	1589.6	1477.7	1393.3	1369.0
10°	3589.6	3390.0	2939.1	2421.7	1927.0	1540.9	1211.7	1039.7	906.7	864.5	875.9
12.5°	3602.5	3351.1	2762.3	2116.8	1528.0	1073.8	843.5	755.9	726.7	721.8	718.6
15°	3626.9	3323.5	2588.8	1779.4	1122.4	798.0	708.8	692.6	689.4	686.1	687.7
17.5°	3659.3	3299.2	2403.8	1463.1	861.3	697.5	671.5	663.4	661.8	661.8	661.8
20°	3691.7	3271.6	2197.9	1180.8	718.6	658.5	642.3	637.5	635.8	635.8	634.2
22.5°	3729.0	3247.3	1988.6	927.8	661.8	631.0	616.4	613.1	611.5	609.9	609.9
25°	3782.6	3216.5	1766.4	759.1	626.1	605.0	590.4	587.2	585.6	579.1	580.7
27.5°	3853.9	3193.8	1537.7	655.3	593.7	572.6	562.8	558.0	554.7	549.9	551.5
30°	3951.3	3174.3	1294.4	598.5	556.4	538.5	528.8	525.5	522.3	517.4	517.4
32.5°	4120.0	3182.4	1038.1	553.1	522.3	501.2	491.5	488.2	485.0	480.1	480.1
35°	4373.0	3229.5	830.5	514.2	481.7	460.7	450.9	450.9	446.1	439.6	437.9
37.5°	4786.6	3349.5	666.7	476.9	442.8	423.4	412.0	408.8	403.9	394.2	392.5
40°	5274.8	3536.0	561.2	439.6	407.1	387.7	377.9	368.2	355.2	345.5	343.9
42.5°	5888.0	3727.4	486.6	402.3	373.1	355.2	343.9	327.7	308.2	295.2	293.6
45°	6527.1	3902.6	436.3	368.2	340.6	326.0	313.1	287.1	262.8	246.5	244.9
47.5°	7003.9	3935.0	395.8	335.8	313.1	298.5	280.6	248.2	215.7	201.1	196.3
50°	7229.4	3777.7	353.6	303.3	285.5	269.3	246.5	209.2	173.6	155.7	152.5
52.5°	7308.9	3505.2	319.5	274.1	257.9	238.4	210.9	168.7	136.3	118.4	116.8
55°	7276.4	3161.3	288.7	246.5	225.5	202.8	175.2	134.6	100.6	86.0	82.7
57.5°	7106.1	2723.4	257.9	219.0	193.0	170.3	139.5	100.6	68.1	55.1	53.5
60°	6647.1	2126.5	227.1	188.2	163.8	139.5	110.3	71.4	42.2	30.8	30.8
62.5°	5871.8	1578.2	197.9	157.3	137.9	111.9	77.9	45.4	22.7	16.2	14.6
65°	4906.6	1164.6	165.4	133.0	115.2	87.6	55.1	27.6	11.4	4.9	3.2
67.5°	3424.1	718.6	137.9	108.7	94.1	63.3	34.1	11.4	4.9	0.0	0.0
70°	1555.5	342.2	105.4	82.7	71.4	45.4	17.8	6.5	3.2	0.0	0.0
72.5°	483.4	180.0	74.6	60.0	48.7	29.2	9.7	4.9	3.2	0.0	0.0
75°	223.8	115.2	47.0	32.4	27.6	14.6	6.5	3.2	1.6	0.0	0.0
77.5°	167.1	89.2	27.6	17.8	14.6	9.7	4.9	3.2	1.6	0.0	0.0
80°	146.0	45.4	16.2	11.4	8.1	6.5	3.2	1.6	0.0	0.0	0.0
82.5°	131.4	22.7	9.7	6.5	4.9	3.2	1.6	1.6	0.0	0.0	0.0
85°	71.4	13.0	6.5	4.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	13.0	6.5	4.9	3.2	3.2	1.6	1.6	1.6	0.0	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)