

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: P457811

Luminaire Tested: **GALN-SA9A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25793 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - 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

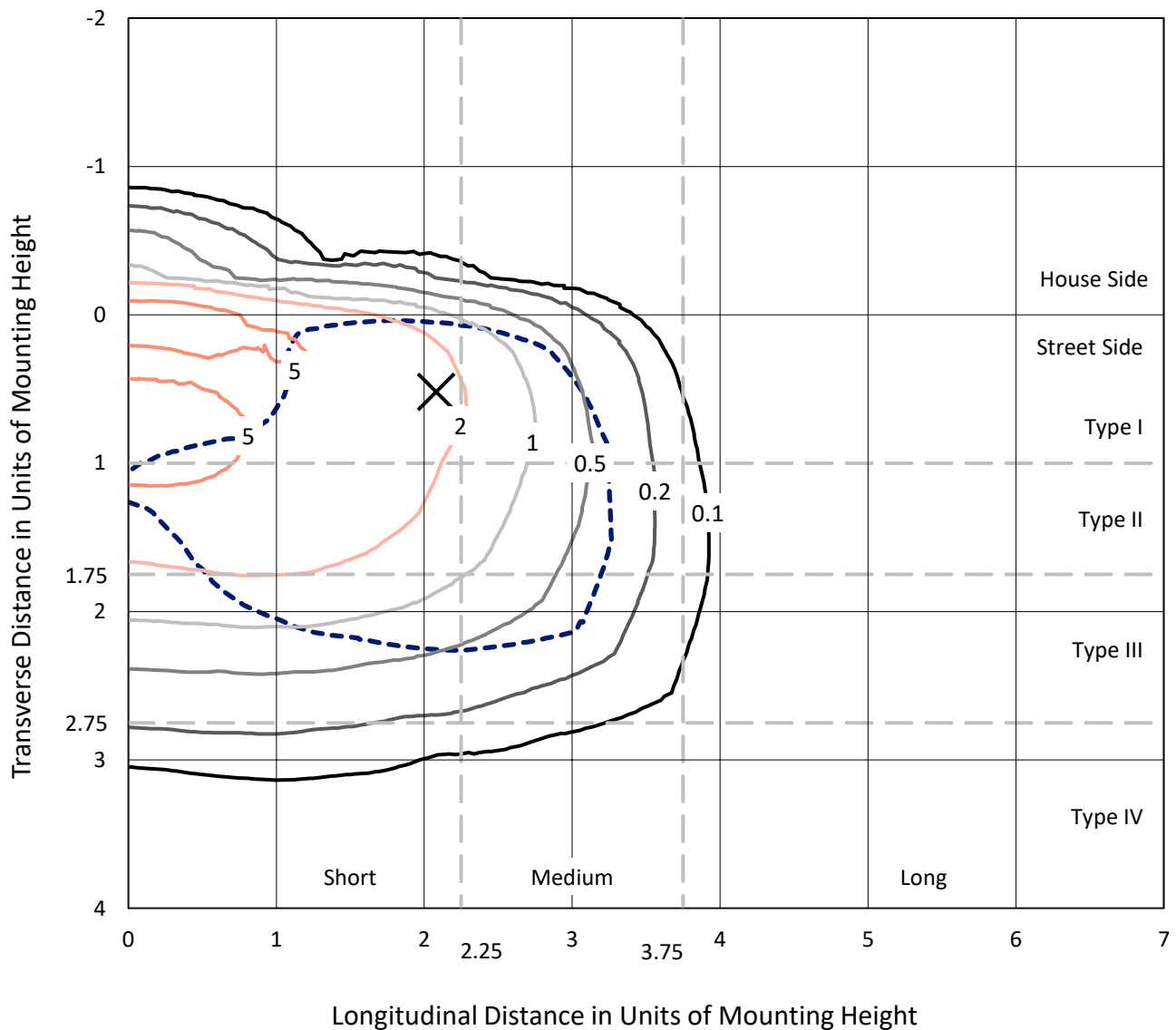


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

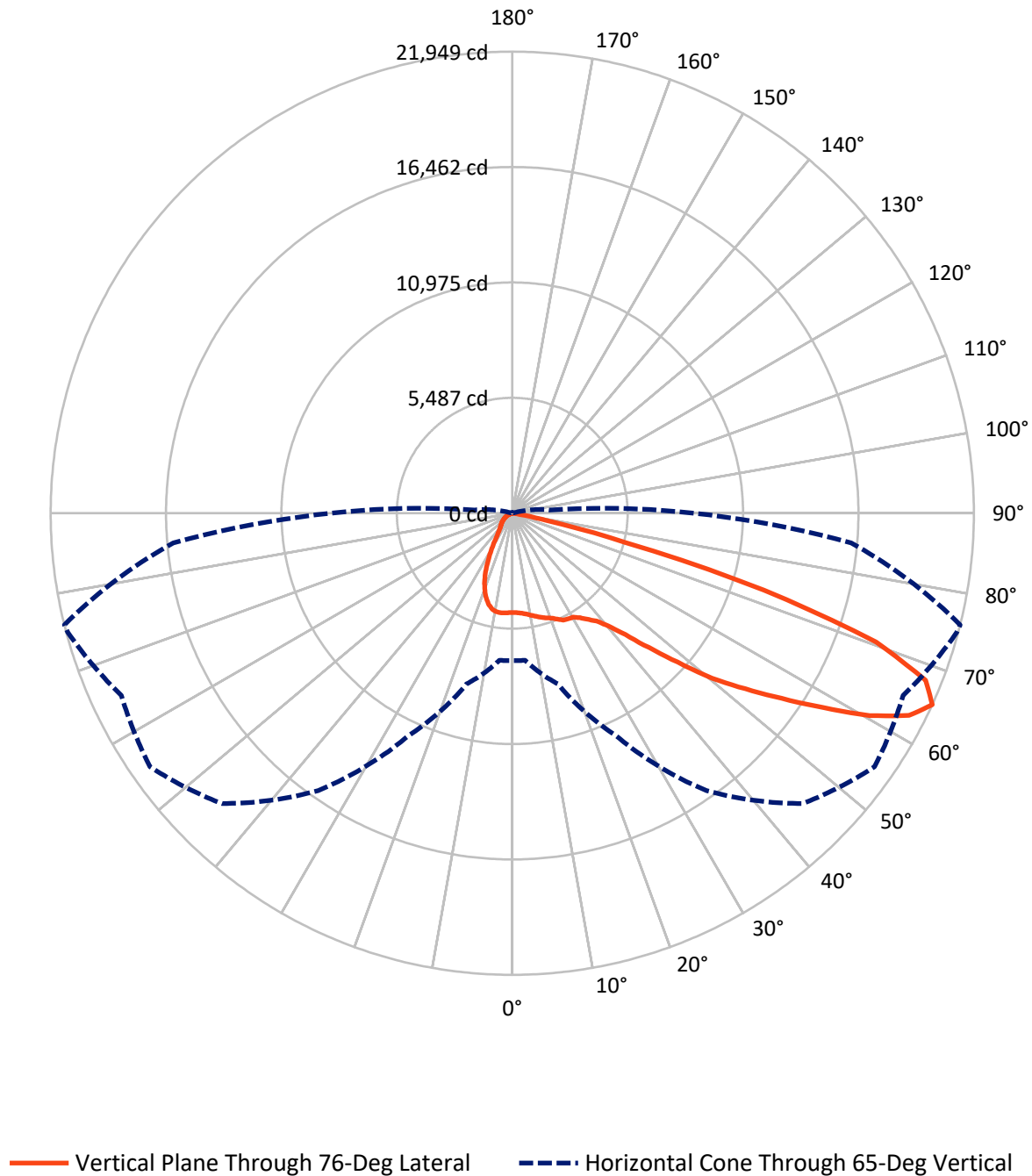


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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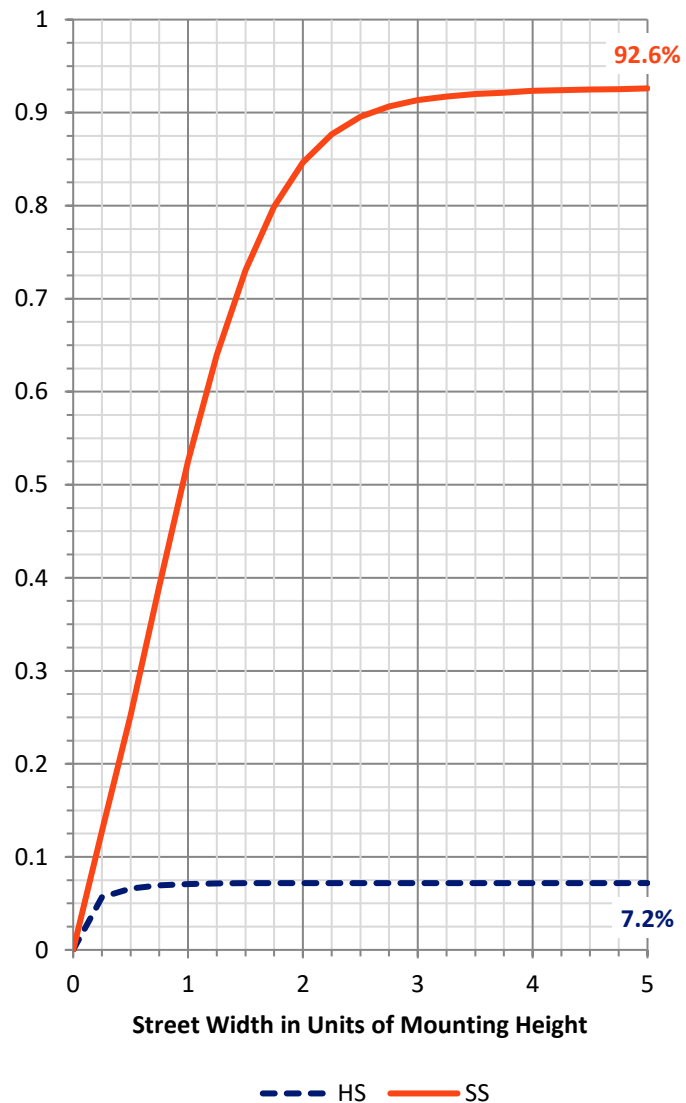
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.8	0.0	1862.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23930.2	0.0	23930.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	25793.0	0.0	25793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.7	1.5
10°-20°	865.4	3.4
20°-30°	1394.6	5.4
30°-40°	2424.8	9.4
40°-50°	4006.8	15.5
50°-60°	6189.7	24.0
60°-70°	7558.6	29.3
70°-80°	2868.7	11.1
80°-90°	95.7	0.4
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°	25793.0	100.0
0°-180°	25793.0	100.0

Coefficient of Utilization



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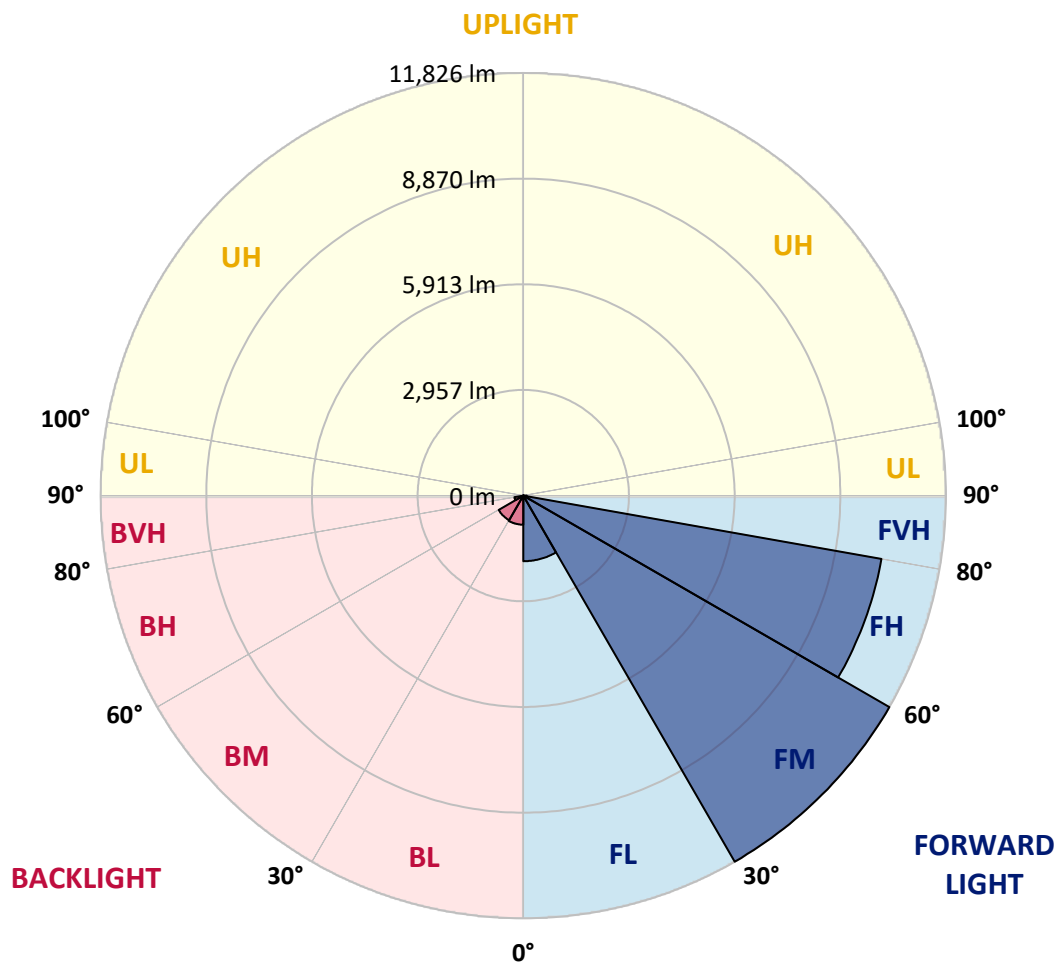
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.9	7.1			
FM	(30°-60°)	11826.5	45.9			
FH	(60°-80°)	10174.5	39.4			G4/12000
FVH	(80°-90°)	94.4	0.4			G1/100
BL	(0°-30°)	813.8	3.2	B2/1000		
BM	(30°-60°)	794.9	3.1	B1/1000		
BH	(60°-80°)	252.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4
2.5°	4508.9	4510.8	4521.7	4549.0	4590.9	4625.5	4654.6	4702.0	4734.8	4738.4	4749.3
5°	4197.5	4175.7	4197.5	4268.6	4332.3	4428.8	4547.2	4665.6	4771.2	4778.5	4829.4
7.5°	3847.9	3866.1	3900.7	3973.5	4093.7	4241.2	4412.4	4623.7	4824.0	4842.2	4942.4
10°	3492.8	3532.9	3589.3	3700.4	3867.9	4059.1	4292.2	4594.5	4907.8	4933.2	5106.2
12.5°	3165.0	3183.2	3252.4	3401.7	3609.3	3878.9	4201.2	4578.1	5000.6	5031.6	5281.1
15°	2913.7	2937.4	2997.5	3132.2	3363.5	3709.5	4126.5	4572.7	5091.7	5135.4	5455.9
17.5°	2866.3	2880.9	2906.4	2997.5	3199.6	3574.7	4059.1	4570.9	5179.1	5231.9	5618.0
20°	3061.2	3048.5	3023.0	3013.9	3124.9	3470.9	4010.0	4585.4	5262.9	5323.0	5789.1
22.5°	3549.2	3565.6	3416.3	3239.7	3203.2	3454.5	4002.7	4654.6	5395.8	5466.8	5980.4
25°	4585.4	4459.8	4226.7	3804.2	3485.5	3554.7	4084.6	4818.5	5550.6	5628.9	6153.4
27.5°	5730.9	5692.6	5330.2	4634.6	4040.9	3765.9	4230.3	4944.2	5601.6	5681.7	6251.7
30°	6856.3	6901.8	6486.6	5718.1	4847.7	4157.5	4366.9	4991.5	5647.1	5730.9	6377.3
32.5°	7899.8	7954.4	7590.2	6829.0	5798.3	4834.9	4601.8	5175.4	5838.3	5923.9	6586.8
35°	8721.0	8728.3	8453.4	7846.9	6836.3	5658.0	5109.9	5497.8	6096.9	6197.1	6808.9
37.5°	9475.0	9464.0	9141.7	8619.1	7701.3	6475.7	5749.1	5869.3	6391.9	6495.7	7129.4
40°	10034.0	10041.3	9937.5	9445.8	8508.0	7231.4	6255.3	6217.1	6887.2	7049.3	7595.6
42.5°	10407.3	10474.7	10525.7	10276.2	9522.3	8162.0	7032.9	6961.9	7746.8	7881.5	8254.9
45°	10709.6	10829.8	11084.8	11072.0	10496.6	9303.8	8100.1	7954.4	8965.1	9108.9	9094.4
47.5°	10930.0	11052.0	11474.5	11729.4	11412.6	10411.0	9442.2	9316.5	10420.1	10576.7	10021.3
50°	11042.9	11188.6	11727.6	12221.1	12128.3	11478.1	10971.9	10979.2	12177.4	12328.6	11095.7
52.5°	10778.8	10968.2	11862.4	12751.1	12931.3	12499.7	12405.1	12645.4	13741.7	13871.0	12066.3
55°	9935.7	10174.3	11678.4	13202.7	13861.9	13705.3	14033.1	14399.1	15451.7	15535.5	13062.5
57.5°	9402.1	9655.3	11135.8	13586.9	14980.0	15220.4	15739.4	16007.1	17216.3	17429.4	14206.1
60°	8952.3	9150.8	10689.6	13668.9	16116.4	17074.2	17578.7	17855.5	19394.3	19532.7	15464.4
62.5°	8203.9	8431.5	9935.7	13097.1	16688.2	18558.4	19603.7	19479.9	21078.8	21175.3	16236.6
65°	7000.1	7020.2	8406.0	11660.2	16098.2	19521.7	21025.9	20506.9	21883.7	21949.2	16176.5
67.5°	5224.6	5417.6	6466.6	9165.4	13597.8	18698.6	21486.7	20534.3	21375.6	21193.5	14892.6
70°	3365.3	3512.8	4383.3	6355.5	9804.6	15604.7	19958.8	19126.6	18760.5	18356.3	12190.2
72.5°	1553.4	1742.8	2604.1	3631.2	5814.6	11115.7	16202.0	15539.1	13503.1	12505.2	7748.6
75°	677.4	724.8	1285.7	1915.8	2726.1	5878.4	10682.3	9646.1	6098.7	5570.6	3101.3
77.5°	413.4	444.3	673.8	1027.1	1070.8	2239.9	5754.5	4208.5	1884.8	1662.6	841.3
80°	280.4	315.0	489.9	537.2	366.0	624.6	2159.8	1123.6	380.6	364.2	180.3
82.5°	136.6	173.0	362.4	300.5	158.4	200.3	628.3	240.4	111.1	103.8	63.7
85°	20.0	34.6	204.0	196.7	71.0	47.3	111.1	60.1	38.2	36.4	29.1
87.5°	0.0	0.0	69.2	31.0	7.3	7.3	12.7	12.7	14.6	12.7	14.6
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°	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4
2.5°	4754.8	4763.9	4729.3	4680.1	4627.3	4574.5	4499.8	4432.5	4392.4	4416.1	4357.8
5°	4840.4	4833.1	4742.0	4592.7	4394.2	4155.7	3918.9	3716.8	3651.2	3552.9	3542.0
7.5°	4958.7	4938.7	4745.7	4403.3	3955.3	3507.4	3070.3	2780.8	2615.0	2474.8	2478.5
10°	5124.5	5066.2	4703.8	4070.1	3332.5	2656.9	2099.7	1717.3	1551.5	1498.7	1456.8
12.5°	5295.6	5182.7	4587.2	3620.3	2595.0	1815.6	1276.6	1043.5	941.5	908.7	905.1
15°	5448.6	5270.1	4383.3	3079.4	1886.6	1160.0	870.5	794.0	781.2	783.1	781.2
17.5°	5599.8	5339.3	4101.0	2505.8	1282.0	832.2	748.5	730.2	735.7	743.0	741.2
20°	5725.4	5353.9	3740.5	1912.1	906.9	730.2	702.9	699.3	704.7	710.2	710.2
22.5°	5862.0	5364.8	3312.5	1323.9	741.2	679.3	664.7	664.7	672.0	679.3	681.1
25°	5964.0	5304.7	2800.8	950.6	653.8	630.1	622.8	624.6	631.9	635.5	633.7
27.5°	5980.4	5135.4	2258.1	728.4	593.7	570.0	562.7	570.0	560.9	566.3	562.7
30°	5994.9	4920.5	1708.2	613.7	539.0	502.6	491.7	480.8	473.5	464.4	462.5
32.5°	6040.5	4667.4	1247.4	551.8	488.0	448.0	422.5	391.5	367.9	360.6	358.7
35°	6060.5	4363.3	916.0	502.6	442.5	398.8	353.3	309.6	275.0	262.2	271.3
37.5°	6137.0	4068.2	710.2	466.2	402.5	347.8	289.5	234.9	202.1	194.9	198.5
40°	6293.6	3747.7	595.5	435.2	367.9	300.5	229.5	176.6	154.8	147.5	145.7
42.5°	6544.9	3429.1	529.9	406.1	333.3	253.1	180.3	138.4	120.2	114.7	114.7
45°	6850.8	3123.1	484.4	375.1	296.8	204.0	142.0	111.1	100.2	96.5	96.5
47.5°	7253.3	2855.4	446.2	344.2	256.8	162.1	114.7	96.5	89.2	91.1	92.9
50°	7661.2	2656.9	404.3	309.6	211.2	132.9	98.3	85.6	83.8	85.6	85.6
52.5°	7969.0	2540.4	347.8	262.2	165.7	111.1	87.4	80.1	78.3	74.7	74.7
55°	8384.2	2514.9	276.8	213.1	131.1	92.9	78.3	72.8	67.4	63.7	61.9
57.5°	8917.7	2544.0	213.1	165.7	102.0	76.5	69.2	60.1	52.8	45.5	45.5
60°	9249.2	2478.5	165.7	127.5	74.7	61.9	52.8	43.7	34.6	29.1	27.3
62.5°	9143.5	2201.7	131.1	94.7	52.8	45.5	34.6	29.1	20.0	14.6	12.7
65°	8599.0	1777.4	105.6	65.6	38.2	27.3	18.2	18.2	9.1	1.8	0.0
67.5°	7526.4	1316.6	83.8	43.7	21.9	12.7	9.1	5.5	0.0	0.0	0.0
70°	6126.0	950.6	65.6	27.3	12.7	9.1	3.6	1.8	0.0	0.0	0.0
72.5°	3889.8	544.5	51.0	16.4	9.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	1504.2	213.1	34.6	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	426.1	100.2	20.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.1	43.7	10.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.8	18.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	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)