

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: P458989

Luminaire Tested: **GALN-SA5A-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15321 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

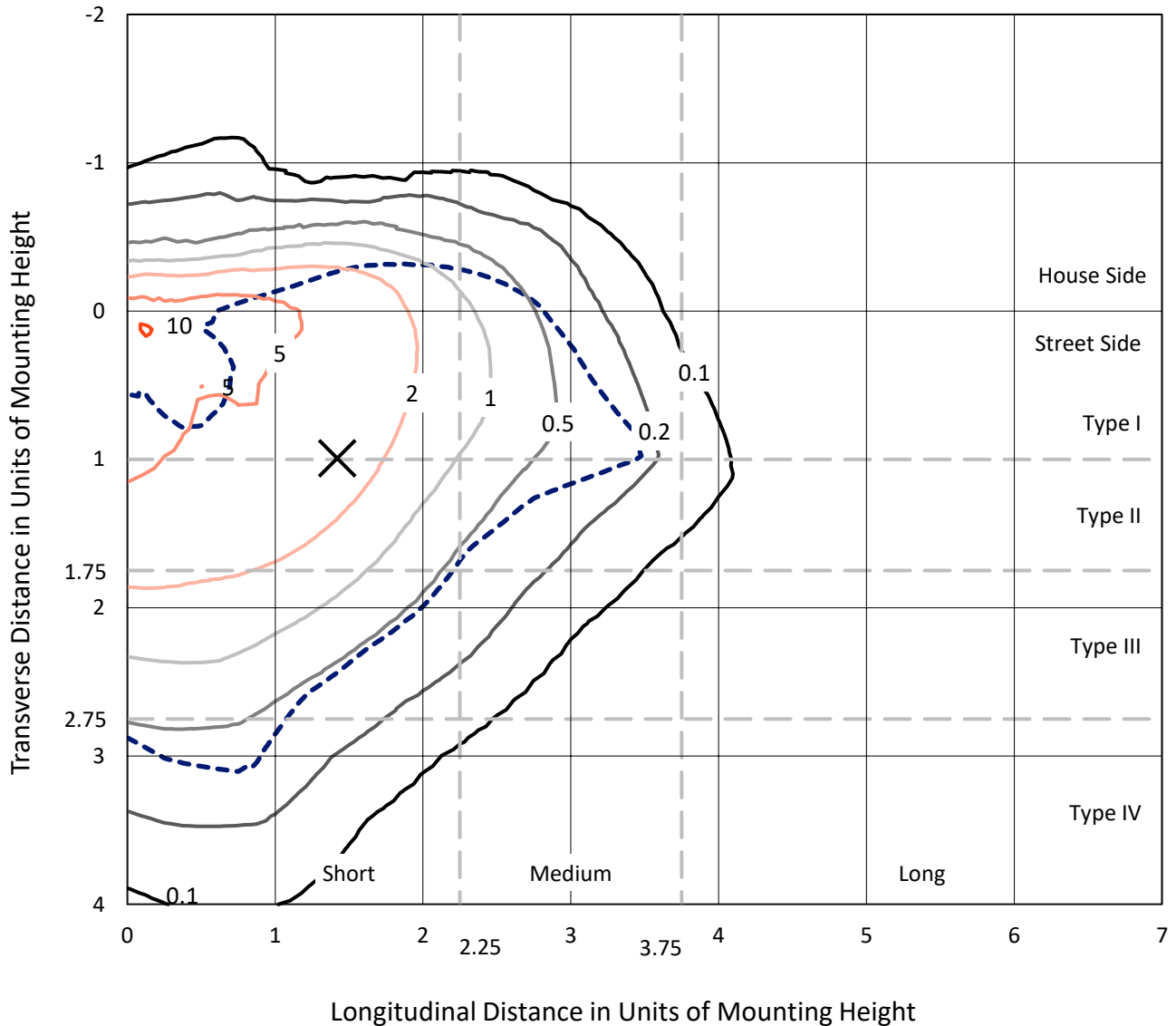
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

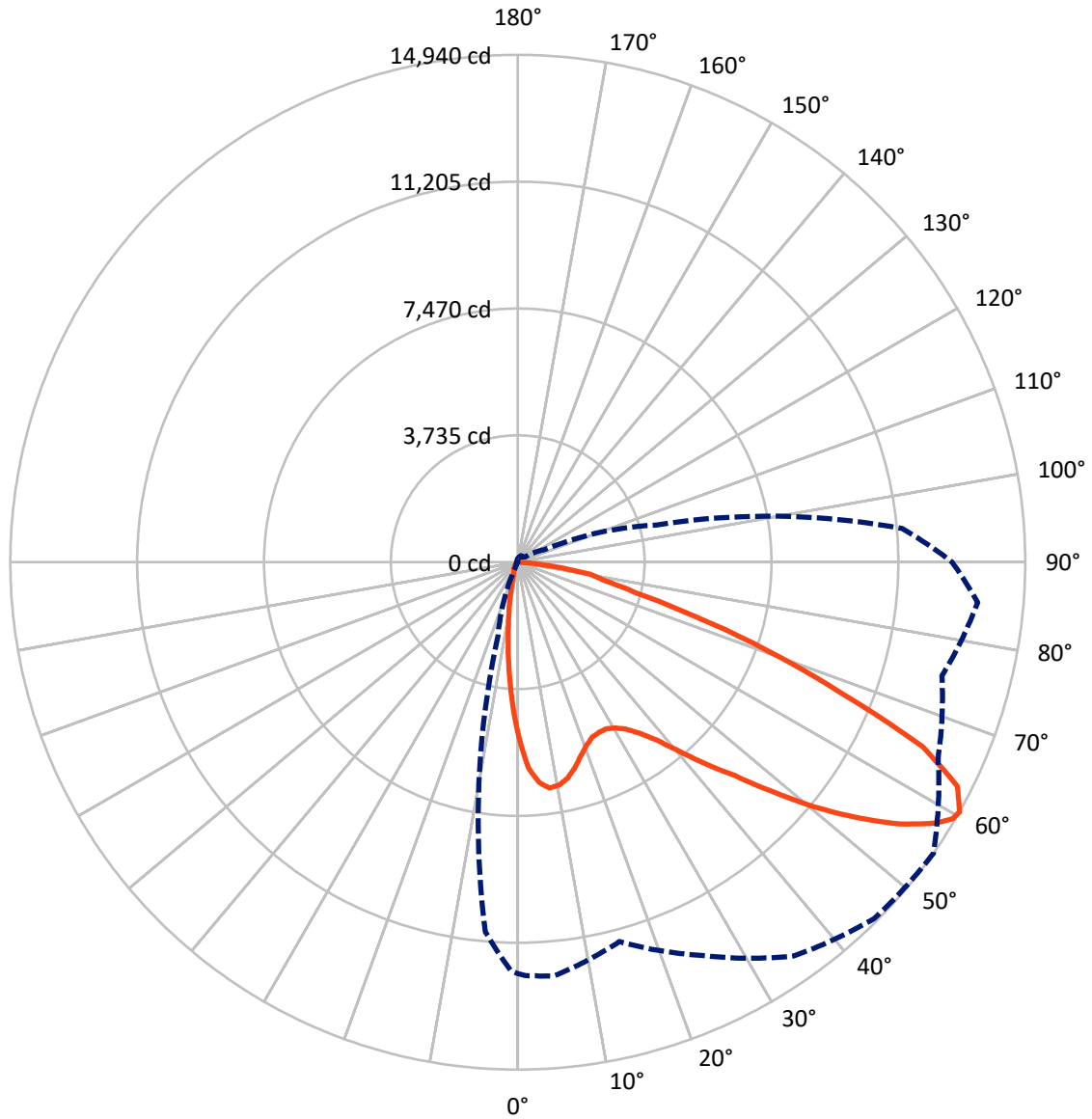
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2273.8	0.0	2273.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13047.2	0.0	13047.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	15321.0	0.0	15321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	2.5
10°-20°	756.5	4.9
20°-30°	1119.7	7.3
30°-40°	1669.1	10.9
40°-50°	2444.4	16.0
50°-60°	3528.9	23.0
60°-70°	3712.3	24.2
70°-80°	1527.1	10.0
80°-90°	178.9	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°	15321.0	100.0
0°-180°	15321.0	100.0

Coefficient of Utilization



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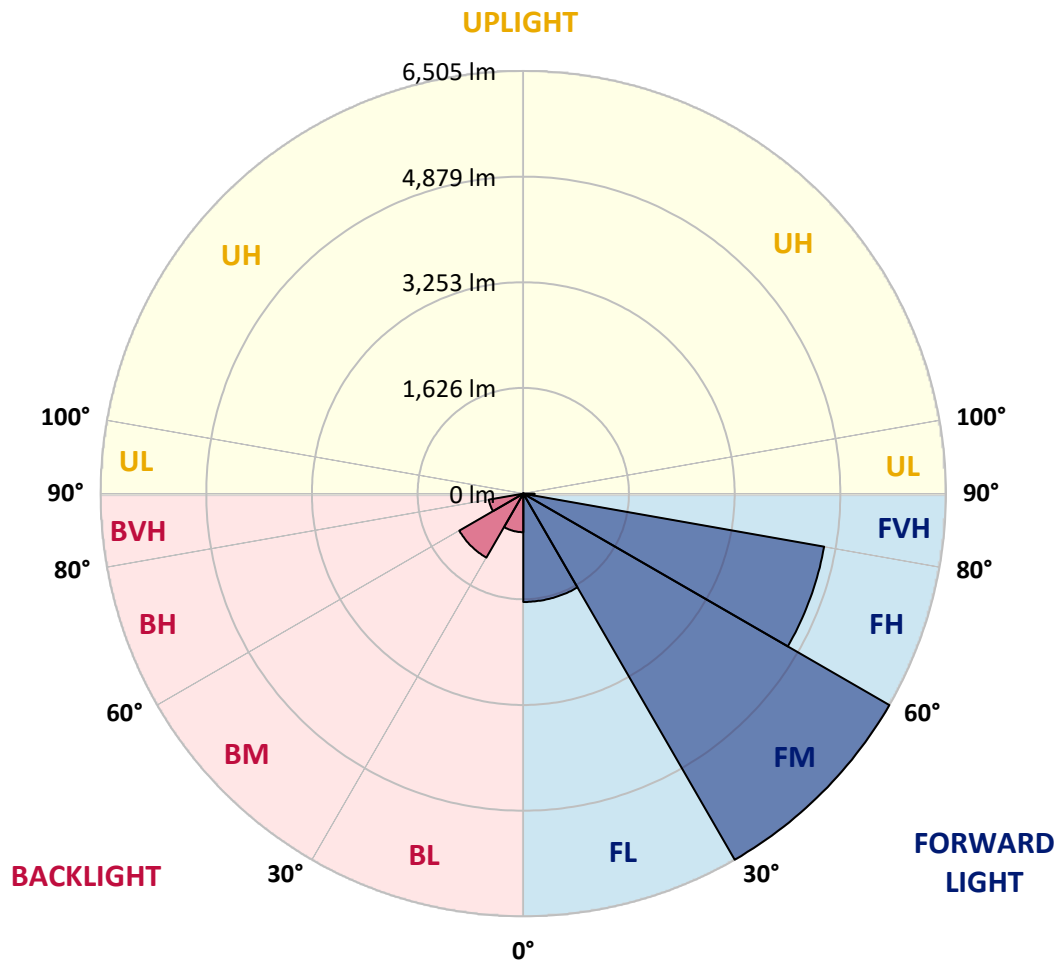
CATALOG NUMBER: GALN-SA5A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.1	10.9			
FM (30°-60°)	6505.3	42.5			
FH (60°-80°)	4701.2	30.7			G2/5000
FVH (80°-90°)	173.6	1.1			G2/225
BL (0°-30°)	593.2	3.9	B2/1000		
BM (30°-60°)	1137.1	7.4	B2/2500		
BH (60°-80°)	538.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6
2.5°	5667.6	5658.2	5741.9	5878.7	6016.7	6088.6	6074.5	6068.6	5954.2	5870.5	5694.7
5°	5655.8	5704.2	5853.9	6224.2	6504.9	6640.5	6680.6	6512.0	6289.1	5966.0	5567.4
7.5°	5317.4	5377.5	5621.6	6200.6	6699.5	6994.3	6983.7	6713.6	6253.7	5753.7	5185.3
10°	4897.5	4968.3	5254.9	5957.7	6605.1	6994.3	7015.5	6673.5	6101.6	5460.1	4862.2
12.5°	4601.5	4685.3	5002.5	5731.3	6362.2	6745.5	6770.2	6522.6	5987.2	5346.9	4686.5
15°	4501.3	4580.3	4902.3	5616.9	6103.9	6310.3	6304.4	6278.5	5942.4	5374.0	4695.9
17.5°	4673.5	4738.3	5101.6	5668.8	5862.2	5841.0	5871.6	5996.6	5951.8	5601.6	4993.1
20°	5118.1	5184.1	5574.5	5828.0	5677.0	5542.6	5556.8	5765.5	6039.1	6029.7	5457.7
22.5°	5730.1	5842.1	6195.9	6137.0	5652.3	5357.5	5328.0	5599.2	6187.7	6522.6	6085.1
25°	6504.9	6618.1	6894.1	6629.9	5773.7	5313.8	5286.7	5548.5	6368.1	7003.7	6791.5
27.5°	7155.9	7242.0	7516.7	7109.9	5953.0	5332.7	5287.9	5555.6	6514.3	7412.9	7387.0
30°	7677.1	7740.8	7902.3	7333.9	6107.5	5415.2	5363.4	5659.4	6579.2	7612.2	7869.3
32.5°	8096.9	8204.2	8255.0	7573.3	6329.2	5570.9	5482.5	5858.7	6737.2	7858.7	8375.2
35°	8576.9	8700.7	8635.9	7802.1	6621.7	5813.8	5705.4	6181.8	6976.6	8086.3	8962.5
37.5°	9185.4	9328.1	9074.6	8042.7	6930.6	6179.4	6128.7	6635.8	7339.8	8411.8	9592.3
40°	9815.1	9897.7	9500.3	8335.1	7310.4	6711.3	6759.6	7310.4	7815.1	8802.1	10262.1
42.5°	10306.9	10384.7	9937.8	8580.4	7698.3	7342.2	7543.8	8124.1	8359.9	9201.9	10762.1
45°	10683.1	10749.1	10240.9	8848.1	8221.9	8256.1	8637.0	8962.5	8905.9	9446.0	11147.7
47.5°	10975.5	11032.2	10474.4	9135.9	9006.2	9374.1	9956.7	10094.6	9472.0	9710.2	11496.8
50°	11095.8	11112.3	10547.5	9502.6	9896.5	10798.7	11406.0	11322.3	10120.6	10003.8	11868.3
52.5°	11252.7	11249.1	10756.2	9851.7	10733.8	12072.3	12678.4	12488.6	10854.1	10443.7	12285.7
55°	11664.2	11669.0	11203.2	10347.0	11447.3	13100.6	13749.2	13611.2	11627.7	11186.6	12772.8
57.5°	12164.3	12182.0	11838.8	10926.0	12128.9	13845.9	14548.8	14495.7	12673.7	12013.3	13232.7
59°	12229.1	12264.5	12139.5	11334.1	12533.4	14074.7	14822.4	14874.2	13233.9	12558.1	13481.5
60°	12111.2	12170.2	12226.8	11565.2	12770.4	14157.2	14838.9	14940.3	13654.9	12928.4	13594.7
62.5°	11597.0	11690.2	11974.4	12276.3	13066.4	13900.2	14311.7	14524.0	14176.1	13901.3	13605.3
65°	10923.7	10972.0	11382.4	12402.5	12492.1	12699.7	12827.0	13099.4	13549.9	14276.4	13118.3
67.5°	9819.9	9962.5	10464.9	11670.1	10797.5	10552.2	10520.3	10249.1	11419.0	13382.5	11917.8
70°	8112.3	8175.9	8795.1	9567.5	8148.8	7771.4	7922.4	7821.0	8851.7	11520.4	9592.3
72.5°	6134.6	6278.5	6883.5	7626.4	5545.0	5055.6	5471.9	5434.1	6648.8	9258.5	6589.8
75°	4364.5	4457.7	5228.9	5968.3	3883.4	3290.2	3440.0	3580.3	4641.6	7310.4	3894.0
77.5°	2998.9	3079.1	3658.1	3947.0	2832.6	2713.5	2482.4	2618.0	3041.4	4337.4	2119.2
80°	1809.0	1805.5	2186.4	2257.1	1972.9	2291.3	1922.2	2158.1	1838.5	1856.2	820.8
82.5°	1174.6	1162.8	1337.3	1457.6	1097.9	1154.5	774.8	1116.8	1198.1	517.7	259.4
85°	526.0	548.4	642.7	847.9	481.1	255.9	158.0	343.2	510.6	260.6	0.0
87.5°	54.2	42.5	113.2	206.4	66.0	7.1	23.6	11.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6
2.5°	5613.4	5545.0	5341.0	5149.9	4986.0	4785.5	4655.8	4451.8	4328.0	4290.2	4296.1
5°	5388.1	5191.2	4803.2	4493.1	4147.5	3950.6	3651.0	3363.3	3207.6	3149.9	3123.9
7.5°	4916.4	4705.3	4237.1	3750.1	3379.8	3034.3	2811.4	2557.9	2384.5	2241.8	2217.0
10°	4566.2	4289.0	3708.8	3185.2	2892.8	2633.3	2410.4	2156.9	1952.9	1790.1	1745.3
12.5°	4356.3	4046.1	3398.7	2960.0	2682.9	2416.3	2126.2	1832.6	1623.9	1448.2	1366.8
15°	4318.5	3958.8	3311.4	2798.4	2456.4	2134.5	1748.9	1431.6	1217.0	1050.7	1000.0
17.5°	4546.1	4115.7	3298.4	2629.8	2160.4	1704.1	1303.1	1040.1	798.4	705.2	668.7
20°	4951.8	4392.8	3297.3	2434.0	1856.2	1312.5	915.1	678.1	580.2	535.4	514.2
22.5°	5504.9	4770.2	3359.8	2265.4	1540.1	968.2	653.3	540.1	483.5	446.9	438.7
25°	6180.6	5329.2	3513.1	2151.0	1298.4	759.5	538.9	462.3	415.1	398.6	391.5
27.5°	6780.9	5864.6	3681.7	2033.1	1125.0	672.2	500.0	423.4	385.6	372.7	362.0
30°	7298.6	6350.4	3763.1	1877.4	985.9	615.6	507.1	452.8	403.3	364.4	346.7
32.5°	7730.2	6723.1	3816.1	1735.9	867.9	503.6	401.0	350.2	327.8	313.7	301.9
35°	8270.3	7126.4	3784.3	1655.7	807.8	458.7	365.6	301.9	264.2	235.9	224.1
37.5°	8836.3	7529.7	3728.9	1589.7	780.7	425.7	347.9	286.6	245.3	215.8	200.5
40°	9422.4	7903.5	3664.0	1528.3	755.9	404.5	337.3	273.6	232.3	200.5	184.0
42.5°	9959.0	8267.9	3638.1	1488.3	715.8	408.0	329.0	267.7	219.3	186.3	172.2
45°	10393.0	8613.5	3673.5	1467.0	672.2	402.1	331.4	260.6	208.7	176.9	162.7
47.5°	10856.4	9101.7	3787.8	1445.8	629.7	373.8	349.1	259.4	204.0	171.0	155.7
50°	11395.4	9726.7	4049.6	1393.9	577.8	343.2	371.5	258.3	198.1	163.9	148.6
52.5°	12113.6	10436.6	4319.7	1303.1	502.4	313.7	355.0	254.7	186.3	155.7	140.3
55°	12758.6	11184.3	4548.5	1195.8	406.9	271.2	319.6	239.4	166.3	141.5	127.4
57.5°	13025.1	11606.5	4541.4	1047.2	325.5	238.2	263.0	219.3	145.1	125.0	113.2
59°	12927.3	11553.4	4389.3	937.5	297.2	220.5	218.2	217.0	135.6	113.2	103.8
60°	12789.3	11360.0	4225.4	883.3	279.5	208.7	200.5	214.6	127.4	106.1	96.7
62.5°	12261.0	10558.1	3681.7	791.3	255.9	176.9	160.4	181.6	113.2	92.0	83.7
65°	11495.6	9325.7	3116.8	765.4	248.8	146.2	133.3	129.7	96.7	77.8	70.8
67.5°	10002.6	7891.7	2524.8	747.7	251.2	122.6	116.7	97.9	80.2	64.9	60.1
70°	8008.5	6153.5	2067.3	727.6	253.5	100.2	97.9	77.8	64.9	54.2	49.5
72.5°	4865.7	3647.5	1627.4	632.1	246.5	80.2	87.3	59.0	47.2	38.9	36.6
75°	3008.3	2496.5	1009.5	491.8	162.7	59.0	61.3	36.6	31.8	24.8	24.8
77.5°	1743.0	1576.7	360.9	176.9	71.9	35.4	27.1	18.9	17.7	10.6	10.6
80°	722.9	579.0	125.0	60.1	38.9	16.5	5.9	1.2	0.0	0.0	0.0
82.5°	211.1	187.5	34.2	27.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6
2.5°	4195.9	4157.0	4139.3	4199.4	4144.0	4214.7	4160.5	4184.1	4253.7	4284.3	4363.3
5°	3140.4	3100.3	3081.5	3172.3	3167.5	3212.4	3207.6	3248.9	3284.3	3205.3	3286.7
7.5°	2187.6	2160.4	2205.3	2276.0	2351.5	2326.7	2326.7	2271.3	2290.2	2278.4	2274.8
10°	1664.0	1570.8	1547.2	1544.9	1573.2	1579.1	1547.2	1470.6	1498.9	1507.1	1556.6
12.5°	1309.0	1237.1	1127.4	1077.9	1064.9	1075.5	970.5	903.3	935.2	916.3	964.7
15°	938.7	879.7	814.9	759.5	744.1	722.9	608.5	528.3	518.9	522.4	530.7
17.5°	669.8	629.7	629.7	570.8	538.9	475.2	417.5	382.1	378.5	382.1	388.0
20°	494.1	472.9	470.5	455.2	419.8	377.4	337.3	330.2	327.8	333.7	336.1
22.5°	425.7	403.3	384.4	383.3	350.2	314.9	296.0	286.6	287.7	290.1	296.0
25°	380.9	357.3	337.3	325.5	301.9	277.1	259.4	254.7	254.7	258.3	259.4
27.5°	349.1	319.6	301.9	285.4	264.2	242.9	227.6	224.1	221.7	224.1	230.0
30°	326.7	297.2	274.8	250.0	233.5	213.4	200.5	195.8	194.6	195.8	200.5
32.5°	279.5	261.8	244.1	221.7	201.7	188.7	174.5	166.3	166.3	168.6	173.4
35°	211.1	201.7	200.5	194.6	178.1	163.9	147.4	139.2	139.2	143.9	146.2
37.5°	186.3	168.6	166.3	163.9	156.8	138.0	122.6	115.6	114.4	117.9	122.6
40°	169.8	149.8	139.2	136.8	138.0	116.7	100.2	93.2	93.2	94.3	99.1
42.5°	156.8	133.3	114.4	112.0	116.7	97.9	81.4	74.3	74.3	74.3	80.2
45°	146.2	119.1	96.7	84.9	92.0	80.2	66.0	59.0	56.6	59.0	61.3
47.5°	139.2	108.5	84.9	68.4	68.4	63.7	53.1	44.8	42.5	43.6	47.2
50°	133.3	99.1	71.9	55.4	49.5	50.7	40.1	34.2	31.8	31.8	35.4
52.5°	123.8	89.6	62.5	47.2	37.7	34.2	29.5	24.8	23.6	24.8	27.1
55°	112.0	81.4	54.2	38.9	29.5	23.6	21.2	17.7	16.5	17.7	21.2
57.5°	99.1	68.4	43.6	30.7	20.0	15.3	14.2	11.8	9.4	10.6	13.0
59°	90.8	61.3	37.7	24.8	15.3	10.6	10.6	8.3	5.9	7.1	10.6
60°	87.3	56.6	31.8	21.2	13.0	8.3	8.3	5.9	3.5	4.7	8.3
62.5°	74.3	47.2	24.8	13.0	5.9	1.2	3.5	1.2	0.0	1.2	3.5
65°	62.5	37.7	16.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.9	28.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	41.3	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6	5187.6
2.5°	4368.0	4536.7	4640.5	4836.2	5036.7	5191.2	5384.6	5557.9	5629.9	5667.6
5°	3369.2	3603.9	3803.2	4101.5	4378.7	4715.9	5057.9	5461.2	5615.7	5655.8
7.5°	2364.5	2603.8	2812.6	3158.1	3553.2	4004.8	4516.6	5028.4	5253.7	5317.4
10°	1707.6	1963.5	2218.2	2563.8	2932.9	3422.3	3955.3	4588.6	4848.0	4897.5
12.5°	1077.9	1352.6	1766.6	2193.5	2583.8	2977.7	3535.5	4224.2	4510.7	4601.5
15°	625.0	830.2	1142.7	1699.3	2195.8	2717.1	3325.6	4087.4	4408.1	4501.3
17.5°	418.6	489.4	704.0	1129.7	1785.4	2476.5	3272.5	4199.4	4554.4	4673.5
20°	352.6	384.4	459.9	688.7	1375.0	2261.9	3286.7	4503.7	4969.5	5118.1
22.5°	310.2	339.6	388.0	495.3	959.9	1995.3	3353.9	4938.8	5540.3	5730.1
25°	273.6	303.1	345.5	410.4	645.1	1687.5	3501.3	5575.6	6296.2	6504.9
27.5°	242.9	270.1	306.6	362.0	496.5	1344.4	3632.2	6195.9	6986.0	7155.9
30°	214.6	237.0	272.4	314.9	412.7	1036.6	3698.2	6738.4	7488.4	7677.1
32.5°	186.3	207.6	241.8	276.0	339.6	790.1	3652.2	7137.0	7976.6	8096.9
35°	159.2	181.6	209.9	241.8	293.6	638.0	3422.3	7585.1	8482.6	8576.9
37.5°	136.8	155.7	185.1	209.9	265.3	510.6	3144.0	7988.4	9049.8	9185.4
40°	115.6	134.4	163.9	186.3	244.1	402.1	2892.8	8436.6	9647.7	9815.1
42.5°	94.3	116.7	142.7	179.3	209.9	306.6	2588.5	8799.8	10097.0	10306.9
45°	75.5	100.2	128.5	178.1	182.8	233.5	2294.9	9082.8	10494.4	10683.1
47.5°	60.1	84.9	123.8	166.3	149.8	185.1	2127.4	9378.8	10824.6	10975.5
50°	48.4	70.8	129.7	146.2	125.0	156.8	2122.7	9709.0	10995.6	11095.8
52.5°	38.9	57.8	109.7	112.0	106.1	138.0	2250.1	10080.5	11170.1	11252.7
55°	33.0	48.4	71.9	82.5	95.5	125.0	2345.6	10652.4	11586.4	11664.2
57.5°	25.9	41.3	55.4	66.0	84.9	114.4	2358.6	11093.5	12113.6	12164.3
59°	22.4	35.4	49.5	59.0	77.8	107.3	2305.5	11120.6	12147.8	12229.1
60°	18.9	31.8	43.6	55.4	71.9	101.4	2247.7	10923.7	12020.4	12111.2
62.5°	14.2	24.8	31.8	44.8	59.0	87.3	1974.1	10236.1	11533.3	11597.0
65°	9.4	17.7	23.6	33.0	46.0	75.5	1608.5	9344.6	10781.0	10923.7
67.5°	5.9	13.0	18.9	24.8	37.7	63.7	1146.3	8013.2	9727.9	9819.9
70°	3.5	8.3	14.2	20.0	29.5	50.7	680.4	6333.9	8093.4	8112.3
72.5°	2.4	5.9	9.4	14.2	23.6	46.0	330.2	4128.7	5909.4	6134.6
75°	1.2	3.5	5.9	10.6	18.9	37.7	158.0	2758.3	4299.7	4364.5
77.5°	0.0	1.2	3.5	7.1	14.2	29.5	92.0	1811.4	2931.7	2998.9
80°	0.0	0.0	2.4	5.9	10.6	18.9	55.4	1068.4	1776.0	1809.0
82.5°	0.0	0.0	1.2	4.7	7.1	14.2	28.3	469.4	1162.8	1174.6
85°	0.0	0.0	1.2	4.7	5.9	9.4	10.6	63.7	516.5	526.0
87.5°	0.0	0.0	1.2	5.9	5.9	5.9	5.9	3.5	43.6	54.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)