

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: P453974

Luminaire Tested: **GALN-SA5A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16447 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

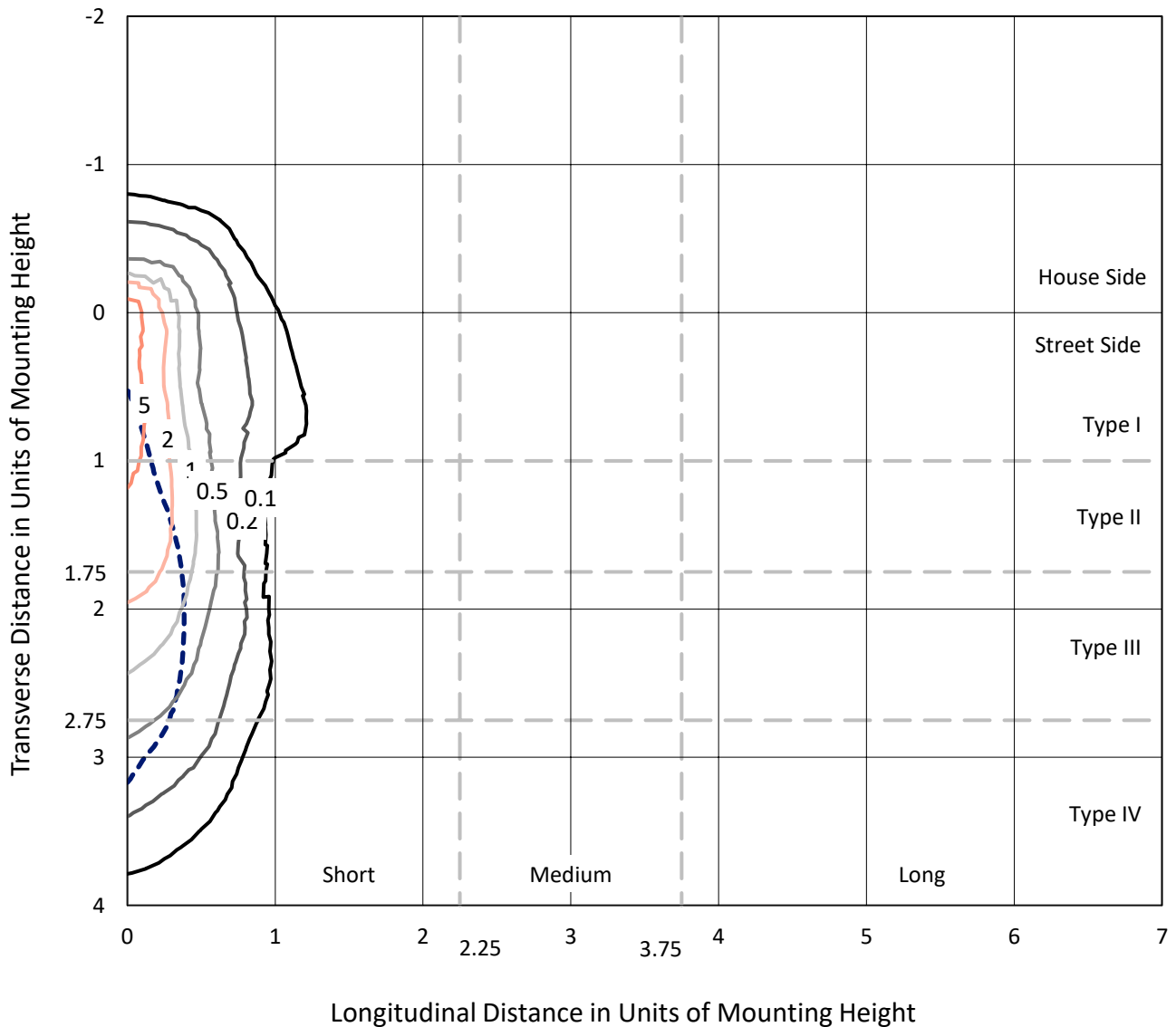
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

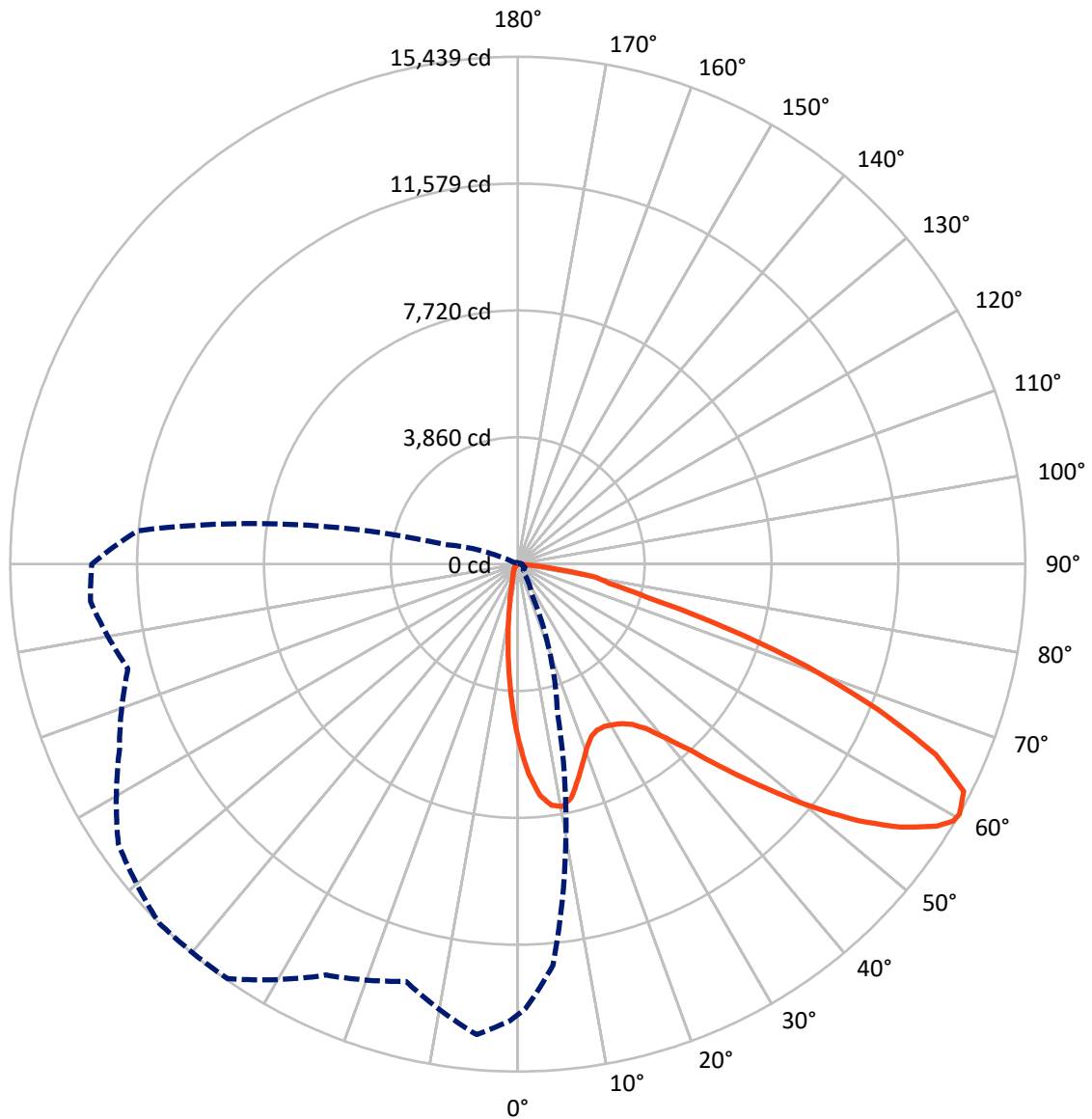
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.6	0.0	2028.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14418.4	0.0	14418.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	16447.0	0.0	16447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	2.5
10°-20°	803.0	4.9
20°-30°	1177.4	7.2
30°-40°	1750.9	10.6
40°-50°	2548.2	15.5
50°-60°	3674.6	22.3
60°-70°	4041.7	24.6
70°-80°	1810.4	11.0
80°-90°	236.6	1.4
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°	16447.0	100.0
0°-180°	16447.0	100.0

Coefficient of Utilization



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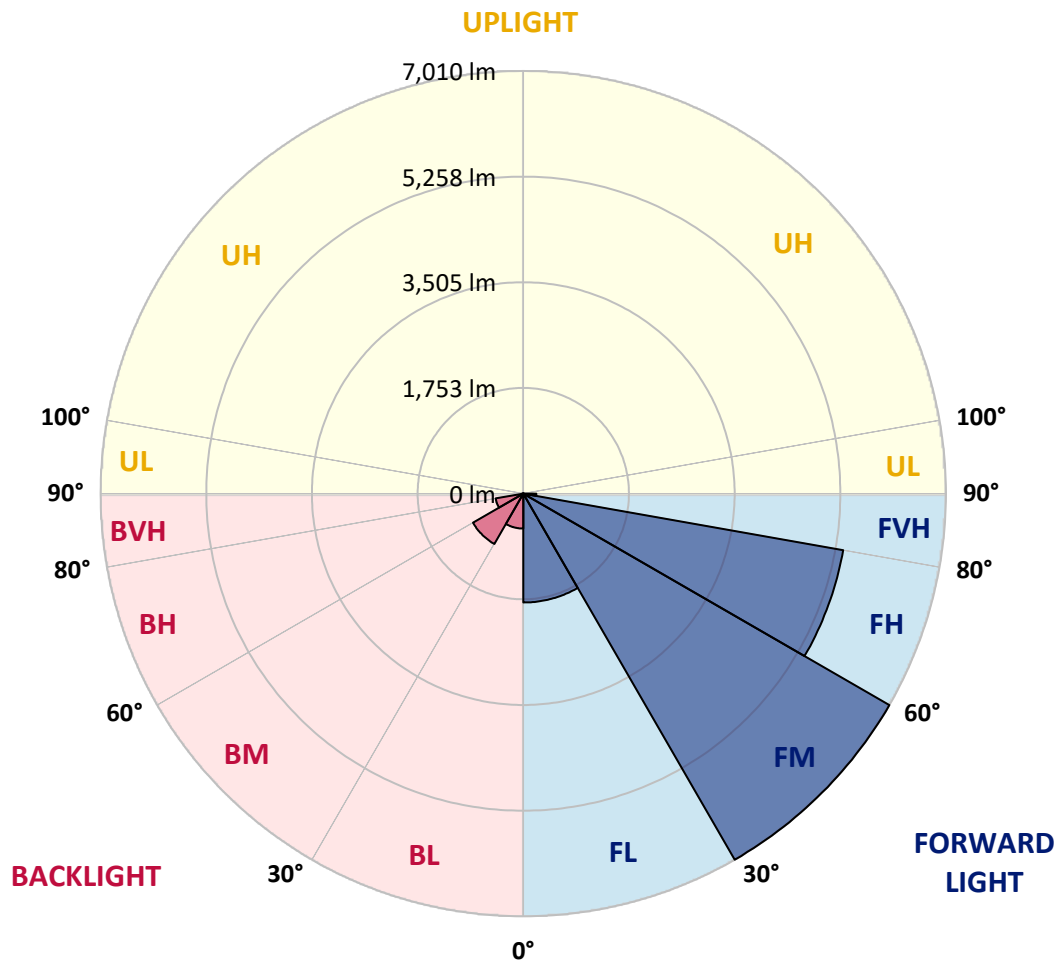
CATALOG NUMBER: GALN-SA5A-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1805.0	11.0			
FM	(30°-60°)	7010.2	42.6			
FH	(60°-80°)	5386.9	32.8			G3/7500
FVH	(80°-90°)	216.3	1.3			G2/225
BL	(0°-30°)	579.6	3.5	B2/1000		
BM	(30°-60°)	963.5	5.9	B1/1000		
BH	(60°-80°)	465.2	2.8	B1/500		G1/500
BVH	(80°-90°)	20.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0
2.5°	5976.1	5949.8	5889.8	5707.3	5548.5	5341.0	5130.9	4965.9	4864.6	4678.3	4593.3
5°	5789.8	5802.3	5628.5	5253.4	4835.9	4550.8	4239.5	3992.0	3719.4	3546.9	3365.6
7.5°	5303.4	5278.4	5089.7	4567.1	4059.5	3646.9	3253.1	2933.0	2731.7	2570.5	2435.4
10°	4887.1	4868.4	4627.1	3954.5	3409.4	3100.6	2834.3	2554.2	2337.9	2101.6	1912.8
12.5°	4625.8	4583.3	4305.8	3603.1	3159.3	2871.8	2581.7	2290.4	1991.6	1752.8	1524.0
15°	4538.3	4477.0	4168.2	3481.9	2999.3	2634.2	2270.4	1935.3	1591.5	1327.7	1155.2
17.5°	4697.1	4595.8	4267.0	3460.6	2808.0	2324.2	1876.6	1440.3	1082.7	881.4	775.1
20°	5060.9	4944.6	4517.1	3439.4	2595.5	1976.6	1426.5	1017.7	748.9	638.9	580.1
22.5°	5601.0	5441.0	4887.1	3473.1	2399.2	1637.8	1030.2	718.9	595.1	526.3	485.1
25°	6249.9	6116.1	5356.0	3593.1	2244.1	1371.5	796.4	587.6	501.3	458.8	427.6
27.5°	6961.2	6747.5	5962.3	3736.9	2102.9	1165.2	698.9	525.1	446.3	407.6	391.3
30°	7467.6	7301.3	6469.9	3836.9	1926.6	1010.2	638.9	517.6	447.6	401.3	371.3
32.5°	7967.7	7755.1	6895.0	3883.2	1797.8	902.7	552.6	451.3	392.6	368.8	338.8
35°	8502.8	8280.2	7318.8	3858.2	1701.6	831.4	501.3	402.6	336.3	296.3	266.3
37.5°	9044.1	8809.1	7740.1	3768.2	1641.5	802.6	461.3	382.6	317.6	276.3	243.8
40°	9686.7	9372.9	8135.2	3694.4	1579.0	787.6	435.1	370.1	303.8	260.0	227.5
42.5°	10211.8	9913.0	8509.0	3655.7	1536.5	752.6	435.1	360.1	295.1	246.3	212.5
45°	10709.4	10399.4	8912.8	3686.9	1519.0	708.9	440.1	358.8	288.8	236.3	202.5
47.5°	11125.7	10856.9	9327.9	3804.4	1496.5	661.4	413.8	376.3	285.1	227.5	192.5
50°	11617.1	11357.0	9876.8	4042.0	1456.5	613.9	381.3	405.1	283.8	220.0	183.8
52.5°	12309.7	12028.4	10634.4	4312.0	1392.7	541.3	351.3	401.3	278.8	207.5	175.0
55°	13156.1	12928.6	11512.1	4635.8	1305.2	460.1	303.8	356.3	263.8	186.3	160.0
57.5°	13698.7	13504.9	12169.7	4775.9	1171.5	376.3	267.5	298.8	241.3	166.3	142.5
59°	13762.5	13587.4	12307.2	4729.6	1083.9	343.8	250.0	256.3	235.0	155.0	132.5
60°	13708.7	13527.4	12252.2	4639.6	1002.7	321.3	235.0	227.5	236.3	148.8	125.0
62.5°	13363.6	13053.6	11718.3	4183.2	876.4	295.1	208.8	186.3	208.8	133.8	111.3
65°	12697.3	12232.2	10661.9	3540.6	826.4	280.0	177.5	156.3	158.8	117.5	96.3
67.5°	11533.3	10947.0	9255.4	2876.8	805.1	281.3	150.0	140.0	122.5	100.0	85.0
70°	9693.0	9107.9	7426.3	2366.7	795.1	281.3	127.5	120.0	102.5	83.8	73.8
72.5°	6868.7	6238.6	5009.6	1859.1	716.4	280.0	108.8	108.8	83.8	70.0	60.0
75°	3880.7	3885.7	3149.3	1315.2	595.1	231.3	87.5	86.3	61.3	53.8	45.0
77.5°	2261.7	2221.6	2122.9	565.1	276.3	105.0	61.3	52.5	42.5	38.8	32.5
80°	1162.7	956.4	931.4	205.0	98.8	66.3	42.5	30.0	27.5	25.0	22.5
82.5°	343.8	345.1	307.6	82.5	55.0	43.8	21.3	16.3	15.0	13.8	13.8
85°	23.8	15.0	17.5	25.0	33.8	17.5	1.3	3.8	3.8	5.0	6.3
87.5°	2.5	1.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0
2.5°	4499.6	4554.6	4452.0	4454.5	4369.5	4397.0	4297.0	4329.5	4270.8	4315.8	4448.3
5°	3385.6	3398.1	3315.6	3289.3	3301.8	3353.1	3373.1	3281.8	3320.6	3244.3	3239.3
7.5°	2385.4	2400.4	2352.9	2346.7	2436.7	2415.4	2454.2	2360.4	2271.7	2310.4	2239.1
10°	1852.8	1790.3	1692.8	1665.3	1647.8	1659.0	1659.0	1574.0	1561.5	1527.8	1579.0
12.5°	1462.8	1386.5	1294.0	1169.0	1137.7	1135.2	1088.9	1013.9	990.2	961.4	1003.9
15°	1062.7	1031.4	953.9	883.9	812.6	798.9	723.9	662.6	581.4	570.1	566.4
17.5°	747.6	701.4	700.1	660.1	618.9	591.4	521.3	451.3	420.1	416.3	416.3
20°	560.1	543.8	517.6	512.6	500.1	468.8	406.3	368.8	353.8	355.1	360.1
22.5°	471.3	460.1	436.3	425.1	420.1	392.6	346.3	321.3	313.8	313.8	315.1
25°	421.3	411.3	385.1	367.6	361.3	341.3	305.1	286.3	280.0	280.0	280.0
27.5°	383.8	371.3	343.8	328.8	317.6	295.1	272.5	253.8	247.5	247.5	248.8
30°	357.6	343.8	318.8	298.8	281.3	261.3	242.5	226.3	218.8	217.5	218.8
32.5°	322.6	310.1	285.1	272.5	252.5	228.8	213.8	198.8	191.3	192.5	191.3
35°	251.3	247.5	230.0	233.8	222.5	202.5	188.8	172.5	163.8	162.5	165.0
37.5°	228.8	213.8	193.8	195.0	191.3	183.8	161.3	143.8	137.5	137.5	138.8
40°	211.3	196.3	173.8	162.5	163.8	163.8	140.0	121.3	115.0	113.8	116.3
42.5°	196.3	181.3	156.3	137.5	132.5	138.8	118.8	100.0	93.8	91.3	93.8
45°	186.3	170.0	141.3	120.0	105.0	112.5	97.5	82.5	75.0	75.0	73.8
47.5°	176.3	161.3	130.0	103.8	87.5	83.8	80.0	66.3	58.8	57.5	58.8
50°	167.5	152.5	117.5	90.0	73.8	65.0	65.0	52.5	47.5	45.0	46.3
52.5°	158.8	142.5	106.3	80.0	63.8	52.5	46.3	42.5	38.8	37.5	38.8
55°	146.3	130.0	95.0	68.8	55.0	43.8	36.3	35.0	32.5	30.0	32.5
57.5°	131.3	116.3	83.8	58.8	43.8	33.8	30.0	28.8	26.3	25.0	25.0
59°	122.5	108.8	77.5	51.3	38.8	30.0	27.5	26.3	23.8	21.3	22.5
60°	117.5	106.3	73.8	47.5	35.0	27.5	25.0	23.8	21.3	20.0	21.3
62.5°	103.8	95.0	65.0	38.8	27.5	20.0	17.5	18.8	17.5	16.3	17.5
65°	91.3	83.8	55.0	30.0	21.3	13.8	12.5	16.3	15.0	13.8	15.0
67.5°	81.3	72.5	46.3	22.5	15.0	7.5	8.8	13.8	13.8	12.5	13.8
70°	70.0	62.5	37.5	16.3	7.5	3.8	6.3	10.0	12.5	11.3	12.5
72.5°	57.5	48.8	28.8	11.3	3.8	0.0	3.8	8.8	12.5	11.3	12.5
75°	45.0	36.3	21.3	6.3	0.0	0.0	1.3	7.5	12.5	11.3	12.5
77.5°	32.5	26.3	12.5	1.3	0.0	0.0	1.3	7.5	12.5	11.3	12.5
80°	21.3	18.8	5.0	0.0	0.0	0.0	1.3	7.5	12.5	12.5	13.8
82.5°	13.8	10.0	0.0	0.0	0.0	0.0	2.5	10.0	13.8	15.0	15.0
85°	6.3	0.0	0.0	0.0	0.0	0.0	5.0	12.5	16.3	16.3	16.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.8	15.0	18.8	18.8	18.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0
2.5°	4470.8	4549.6	4660.8	4832.1	4970.9	5189.7	5357.2	5586.0	5817.3	5887.3	5996.1
5°	3290.6	3391.9	3644.4	3874.4	4019.5	4482.0	4774.6	5235.9	5649.8	5848.5	6064.8
7.5°	2285.4	2405.4	2598.0	2919.3	3224.3	3600.6	4073.2	4600.8	5207.2	5491.0	5796.0
10°	1604.0	1754.1	2025.4	2289.2	2673.0	3030.5	3496.9	4079.5	4748.3	5083.4	5466.0
12.5°	1012.7	1146.5	1505.3	1801.6	2280.4	2695.5	3125.6	3653.2	4428.3	4772.1	5173.4
15°	578.9	691.4	858.9	1239.0	1770.3	2319.2	2855.5	3468.1	4264.5	4688.3	5122.2
17.5°	431.3	461.3	536.3	751.4	1235.2	1876.6	2606.7	3411.9	4375.8	4873.4	5368.5
20°	362.6	382.6	417.6	502.6	787.6	1445.3	2364.2	3421.9	4735.8	5361.0	5831.0
22.5°	325.1	337.6	366.3	421.3	537.6	1052.7	2080.4	3480.6	5172.2	5959.8	6502.4
25°	285.1	301.3	326.3	373.8	447.6	730.1	1800.3	3611.9	5783.5	6719.9	7230.0
27.5°	253.8	268.8	293.8	337.6	392.6	557.6	1474.0	3724.4	6428.6	7485.1	7902.7
30°	222.5	237.5	262.5	297.6	347.6	451.3	1122.7	3790.7	7055.0	8058.9	8380.2
32.5°	196.3	208.8	232.5	263.8	305.1	382.6	885.2	3721.9	7533.8	8580.3	8795.3
35°	170.0	185.0	205.0	233.8	270.0	326.3	736.4	3484.4	7945.2	9116.6	9194.1
37.5°	142.5	160.0	181.3	207.5	236.3	300.1	591.4	3221.8	8385.2	9785.5	9658.0
40°	120.0	136.3	156.3	185.0	211.3	275.0	455.1	2941.8	8860.3	10413.1	10164.3
42.5°	97.5	115.0	138.8	165.0	208.8	240.0	352.6	2651.7	9286.7	10959.5	10621.9
45°	77.5	92.5	117.5	151.3	207.5	206.3	272.5	2365.4	9608.0	11349.5	10963.2
47.5°	61.3	73.8	98.8	147.5	191.3	175.0	218.8	2187.9	9945.5	11700.8	11224.5
50°	48.8	61.3	85.0	153.8	167.5	150.0	183.8	2216.6	10271.8	11879.6	11332.0
52.5°	41.3	53.8	73.8	121.3	128.8	131.3	161.3	2349.2	10693.2	12070.9	11545.8
55°	36.3	47.5	62.5	85.0	100.0	117.5	147.5	2445.4	11257.0	12481.0	12017.1
57.5°	28.8	41.3	56.3	72.5	82.5	102.5	136.3	2452.9	11767.1	13007.3	12643.5
59°	26.3	37.5	52.5	68.8	73.8	92.5	128.8	2389.2	11785.8	13086.1	12931.1
60°	23.8	36.3	50.0	63.8	70.0	87.5	122.5	2315.4	11615.8	12961.1	13049.8
62.5°	20.0	31.3	43.8	51.3	60.0	72.5	106.3	2047.9	10791.9	12394.7	12829.8
65°	17.5	27.5	37.5	42.5	50.0	62.5	93.8	1639.0	9881.8	11627.1	12199.7
67.5°	16.3	25.0	32.5	36.3	43.8	57.5	83.8	1157.7	8702.8	10653.1	11253.3
70°	15.0	23.8	28.8	33.8	38.8	48.8	71.3	675.1	6703.7	8945.3	9579.2
72.5°	15.0	22.5	25.0	28.8	33.8	43.8	66.3	365.1	4583.3	6823.7	7642.6
75°	15.0	21.3	22.5	25.0	30.0	40.0	58.8	191.3	2963.0	4740.8	5851.0
77.5°	15.0	20.0	22.5	23.8	28.8	35.0	51.3	120.0	1974.1	3320.6	3954.5
80°	16.3	20.0	21.3	23.8	27.5	32.5	42.5	80.0	1160.2	1997.9	2406.7
82.5°	17.5	20.0	22.5	25.0	28.8	31.3	37.5	50.0	535.1	1321.5	1495.3
85°	18.8	21.3	23.8	26.3	30.0	31.3	35.0	36.3	87.5	596.4	806.4
87.5°	20.0	22.5	25.0	27.5	32.5	32.5	32.5	32.5	30.0	63.8	162.5
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°	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0	5436.0
2.5°	6133.6	6274.9	6373.6	6398.6	6327.4	6294.9	6204.9	6064.8	5979.8	5976.1
5°	6463.7	6795.0	7025.0	7063.8	6926.2	6693.7	6417.4	6061.1	5852.3	5789.8
7.5°	6407.4	6987.5	7357.6	7411.3	7180.0	6736.2	6201.1	5627.3	5399.7	5303.4
10°	6176.1	6883.7	7412.6	7497.6	7188.8	6563.7	5883.5	5243.4	4960.9	4887.1
12.5°	5978.6	6693.7	7163.8	7281.3	7047.5	6423.6	5693.5	4997.1	4694.6	4625.8
15°	5892.3	6468.7	6756.2	6816.2	6777.5	6336.1	5673.5	4959.6	4613.3	4538.3
17.5°	5978.6	6277.4	6313.6	6374.9	6461.2	6327.4	5866.0	5163.4	4789.6	4697.1
20°	6204.9	6111.1	5961.1	5987.3	6184.9	6363.6	6208.6	5614.8	5159.7	5060.9
22.5°	6589.9	6069.8	5729.8	5707.3	5957.3	6484.9	6711.2	6226.1	5698.5	5601.0
25°	7062.5	6173.6	5644.8	5596.0	5868.5	6662.4	7257.5	6975.0	6398.6	6249.9
27.5°	7577.6	6388.6	5644.8	5597.2	5861.0	6820.0	7725.1	7637.6	7123.8	6961.2
30°	7860.2	6566.2	5726.0	5672.3	5953.6	6911.2	7975.2	8226.5	7668.9	7467.6
32.5°	8112.7	6812.5	5884.8	5783.5	6147.3	7046.3	8199.0	8726.6	8102.7	7967.7
35°	8345.2	7076.3	6103.6	5986.1	6402.4	7231.3	8446.5	9251.6	8706.6	8502.8
37.5°	8601.5	7382.6	6444.9	6344.9	6828.7	7591.4	8740.3	9941.8	9300.4	9044.1
40°	8880.3	7737.6	7006.2	6963.7	7506.3	7998.9	9111.6	10678.2	9978.0	9686.7
42.5°	9164.1	8146.5	7693.9	7763.9	8274.0	8570.3	9492.9	11244.5	10533.1	10211.8
45°	9421.7	8669.0	8587.8	8934.1	9169.1	9127.9	9775.5	11643.3	11017.0	10709.4
47.5°	9746.7	9430.4	9669.2	10203.1	10209.3	9734.2	9989.3	11969.6	11433.3	11125.7
50°	10110.6	10329.3	11065.7	11609.6	11463.3	10330.6	10239.3	12356.0	11863.4	11617.1
52.5°	10531.9	11335.8	12356.0	12959.8	12618.5	10980.7	10655.6	12773.5	12546.0	12309.7
55°	11022.0	12022.1	13642.4	14123.8	13780.0	11788.4	11288.3	13339.9	13317.4	13156.1
57.5°	11575.8	12747.3	14387.6	15038.9	14732.6	12736.0	12172.2	13873.7	13788.7	13698.7
59°	12013.4	13119.8	14716.4	15391.5	15206.5	13399.9	12766.0	14206.3	13897.5	13762.5
60°	12278.4	13372.4	14837.6	15439.0	15396.5	13795.0	13142.3	14368.8	13896.2	13708.7
62.5°	13064.8	13813.7	14791.4	15227.7	15394.0	14552.6	14246.3	14547.6	13638.7	13363.6
65°	13344.9	13667.4	14025.0	13971.2	14113.8	14513.8	14951.4	14351.3	13088.6	12697.3
67.5°	12799.8	12063.4	12189.7	11830.9	11760.8	12903.5	14665.1	13391.1	12012.1	11533.3
70°	10789.4	9241.6	9177.9	9342.9	8890.3	10446.9	13168.6	11542.1	10235.6	9693.0
72.5°	8492.8	6531.2	5993.6	6601.2	6587.4	7970.2	10939.4	8190.2	6915.0	6868.7
75°	6678.7	4547.1	3990.7	4089.5	4279.5	5769.8	8712.8	5200.9	4258.3	3880.7
77.5°	4483.3	3221.8	3005.5	2884.3	3089.3	3704.4	5512.2	2820.5	2387.9	2261.7
80°	2584.2	2340.4	2658.0	2412.9	2522.9	2334.2	2741.7	1294.0	1073.9	1162.7
82.5°	1681.5	1332.7	1420.3	1055.2	1442.8	1455.3	880.2	382.6	323.8	343.8
85°	1051.4	625.1	351.3	250.0	497.6	915.2	275.0	23.8	27.5	23.8
87.5°	272.5	103.8	43.8	65.0	80.0	71.3	63.8	3.8	1.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)