

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: P459136

Luminaire Tested: **GALN-SA6B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459136
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-SA6B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA 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: 22573 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

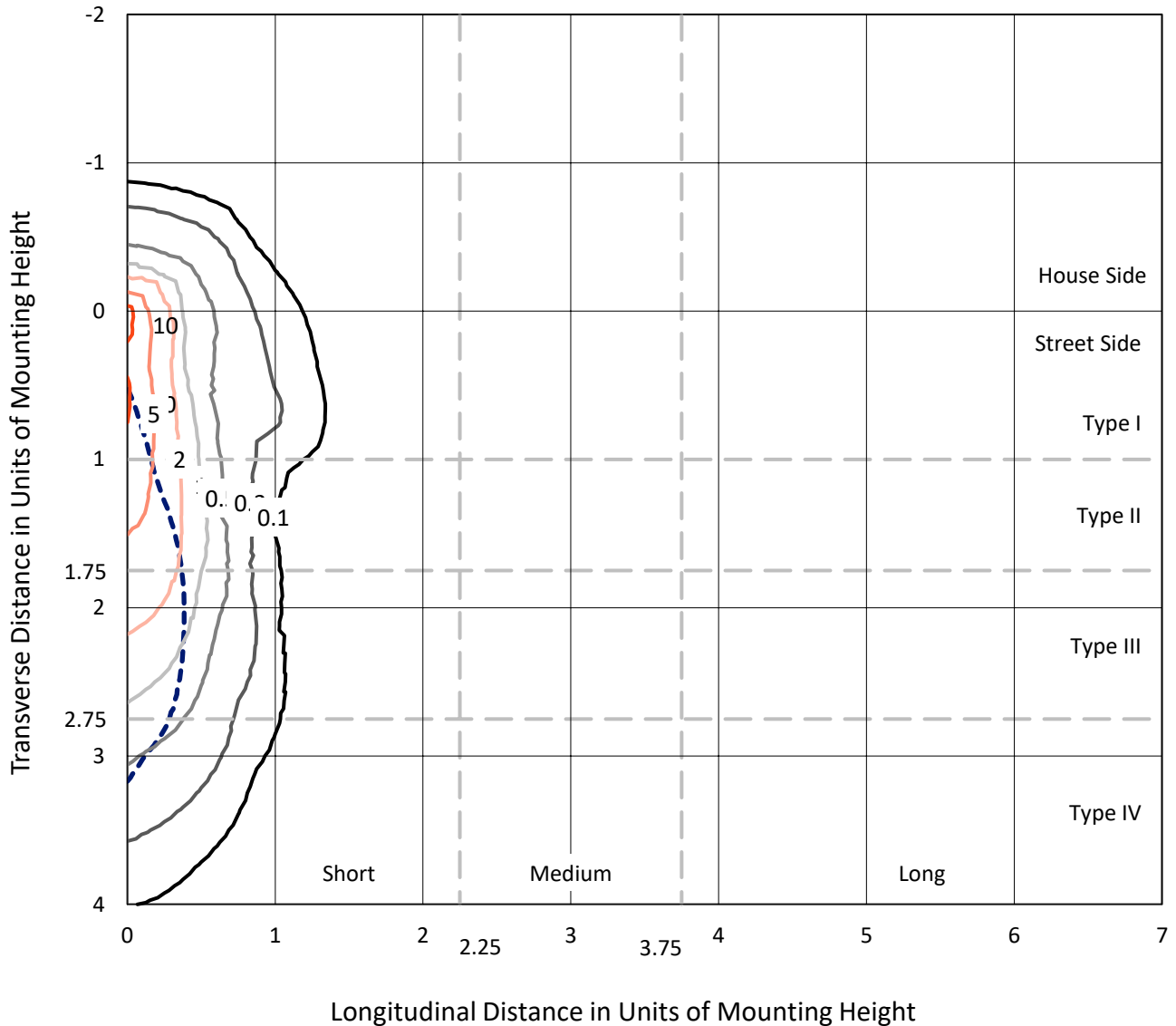
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

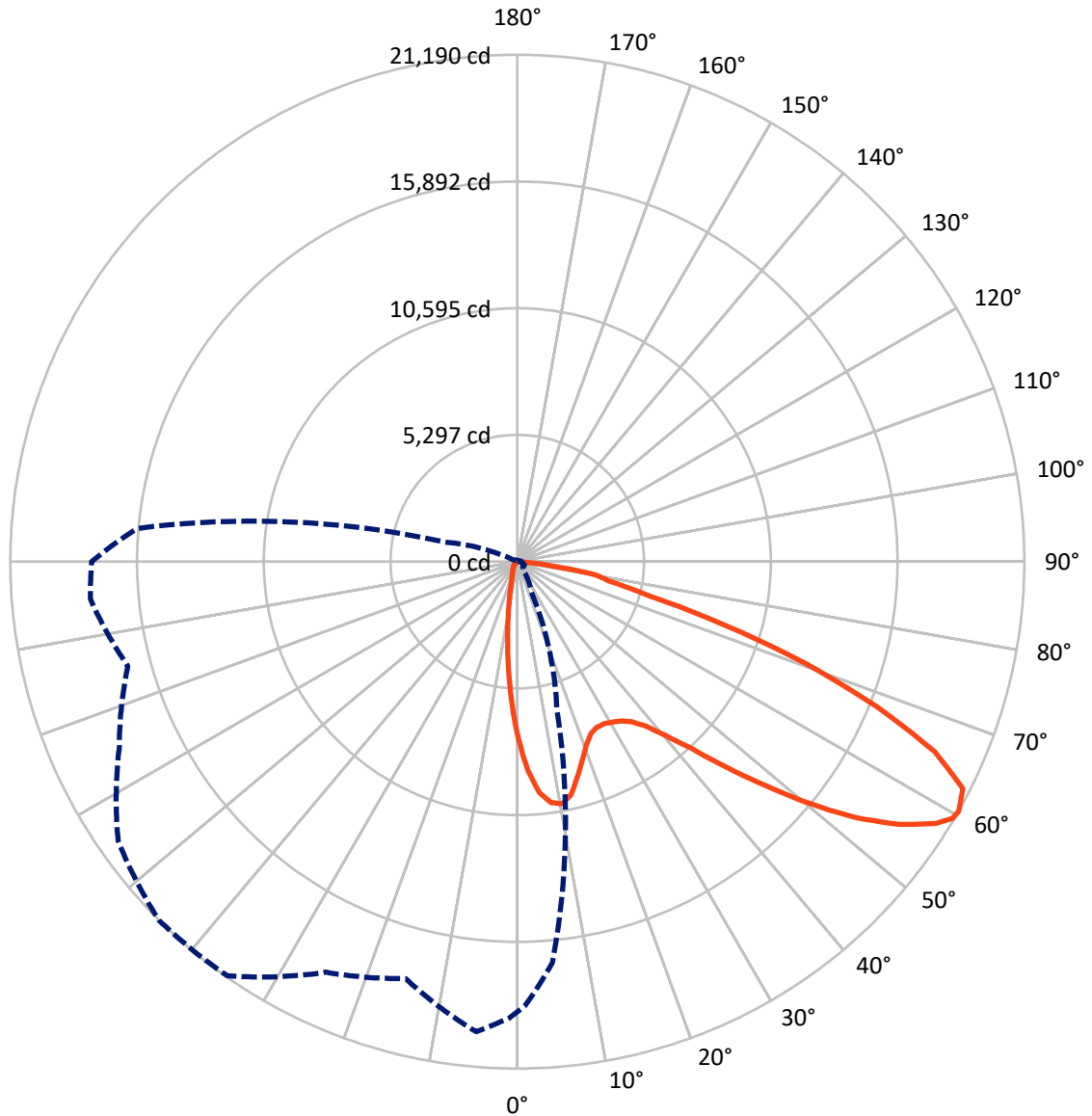
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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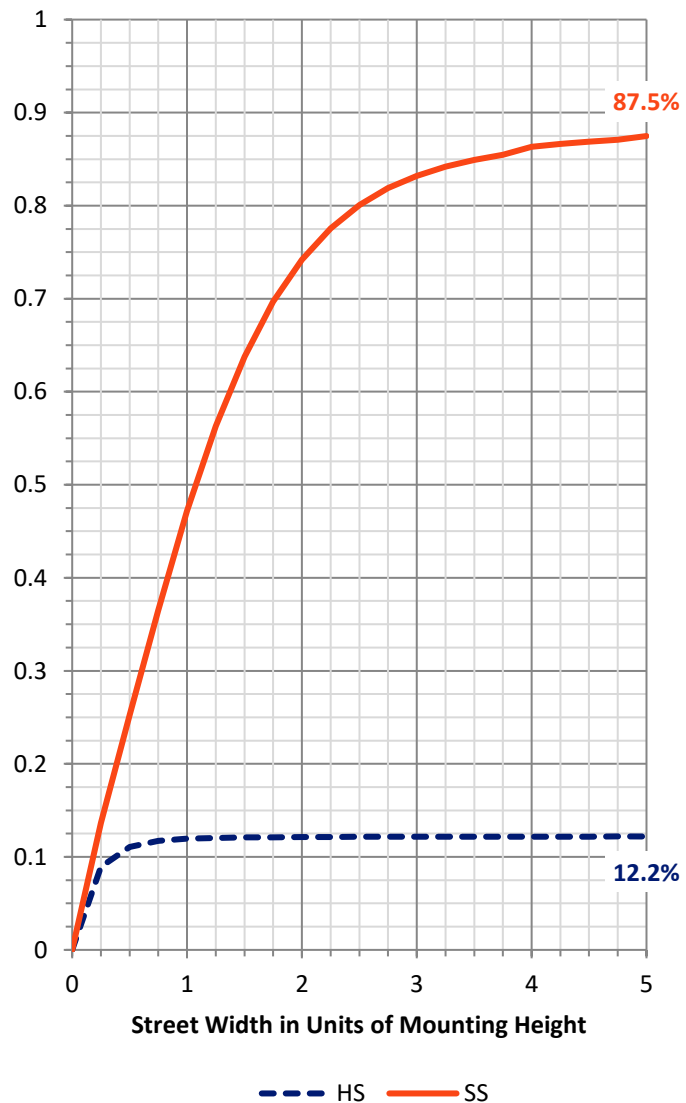
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2784.2	0.0	2784.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19788.9	0.0	19788.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	22573.0	0.0	22573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.9	2.5
10°-20°	1102.0	4.9
20°-30°	1615.9	7.2
30°-40°	2403.1	10.6
40°-50°	3497.3	15.5
50°-60°	5043.3	22.3
60°-70°	5547.1	24.6
70°-80°	2484.7	11.0
80°-90°	324.7	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°	22573.0	100.0
0°-180°	22573.0	100.0



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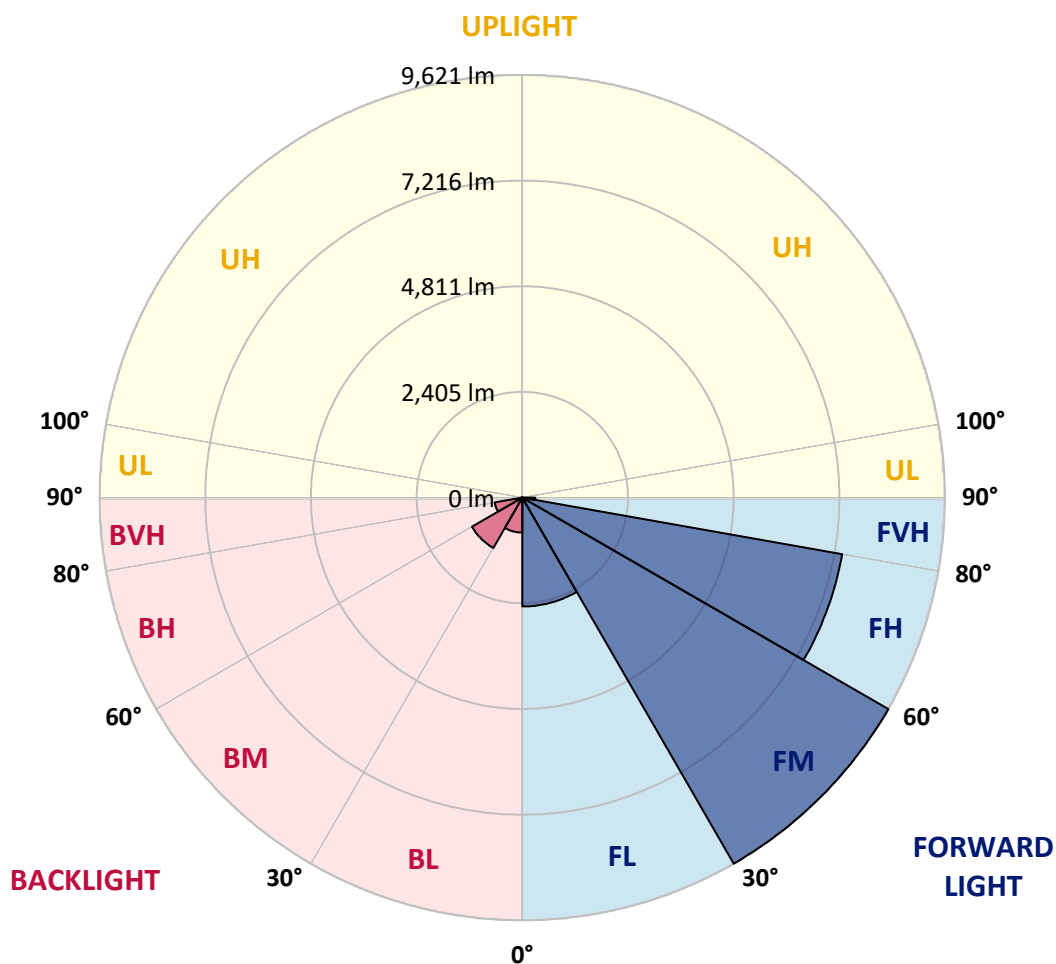
CATALOG NUMBER: GALN-SA6B-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2477.3	11.0			
FM	(30°-60°)	9621.3	42.6			
FH	(60°-80°)	7393.3	32.8			G3/7500
FVH	(80°-90°)	296.9	1.3			G3/500
BL	(0°-30°)	795.5	3.5	B2/1000		
BM	(30°-60°)	1322.4	5.9	B2/2500		
BH	(60°-80°)	638.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	27.8	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°	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7
2.5°	8202.0	8165.9	8083.6	7833.0	7615.1	7330.3	7042.0	6815.5	6676.5	6420.9	6304.2
5°	7946.3	7963.5	7724.9	7210.2	6637.1	6245.8	5818.6	5478.8	5104.8	4868.0	4619.2
7.5°	7278.8	7244.5	6985.4	6268.2	5571.5	5005.3	4464.8	4025.5	3749.2	3527.9	3342.6
10°	6707.4	6681.7	6350.5	5427.4	4679.2	4255.4	3889.9	3505.6	3208.7	2884.4	2625.3
12.5°	6348.8	6290.5	5909.5	4945.2	4336.1	3941.4	3543.3	3143.5	2733.4	2405.7	2091.7
15°	6228.7	6144.6	5720.8	4778.8	4116.4	3615.4	3116.1	2656.2	2184.3	1822.3	1585.5
17.5°	6446.6	6307.6	5856.3	4749.6	3853.9	3189.8	2575.6	1976.7	1486.0	1209.7	1063.9
20°	6945.9	6786.4	6199.5	4720.4	3562.2	2712.8	1957.8	1396.7	1027.8	876.8	796.2
22.5°	7687.2	7467.6	6707.4	4766.7	3292.8	2247.8	1413.9	986.6	816.8	722.4	665.8
25°	8577.7	8394.1	7350.9	4931.5	3080.0	1882.3	1093.0	806.5	688.1	629.7	586.8
27.5°	9554.1	9260.7	8183.1	5128.8	2886.1	1599.2	959.2	720.7	612.6	559.4	537.1
30°	10249.0	10020.8	8879.7	5266.1	2644.2	1386.4	876.8	710.4	614.3	550.8	509.6
32.5°	10935.4	10643.7	9463.1	5329.6	2467.5	1238.9	758.4	619.4	538.8	506.2	465.0
35°	11669.8	11364.4	10044.8	5295.2	2335.3	1141.1	688.1	552.5	461.6	406.7	365.5
37.5°	12412.8	12090.2	10623.1	5171.7	2253.0	1101.6	633.2	525.1	435.8	379.2	334.6
40°	13294.7	12864.0	11165.3	5070.5	2167.2	1081.0	597.1	507.9	417.0	356.9	312.3
42.5°	14015.4	13605.3	11678.4	5017.3	2108.8	1033.0	597.1	494.2	405.0	338.0	291.7
45°	14698.3	14272.8	12232.6	5060.2	2084.8	972.9	604.0	492.5	396.4	324.3	278.0
47.5°	15269.7	14900.8	12802.3	5221.5	2053.9	907.7	568.0	516.5	391.2	312.3	264.2
50°	15944.1	15587.2	13555.5	5547.5	1999.0	842.5	523.3	555.9	389.5	302.0	252.2
52.5°	16894.7	16508.6	14595.4	5918.1	1911.5	743.0	482.2	550.8	382.6	284.8	240.2
55°	18056.3	17744.0	15799.9	6362.5	1791.4	631.4	417.0	489.0	362.1	255.7	219.6
57.5°	18801.0	18535.1	16702.5	6554.7	1607.8	516.5	367.2	410.1	331.2	228.2	195.6
59°	18888.5	18648.3	16891.2	6491.2	1487.7	471.9	343.2	351.8	322.6	212.8	181.9
60°	18814.8	18566.0	16815.7	6367.7	1376.1	441.0	322.6	312.3	324.3	204.2	171.6
62.5°	18341.2	17915.6	16083.1	5741.4	1202.8	405.0	286.6	255.7	286.6	183.6	152.7
65°	17426.6	16788.3	14633.1	4859.4	1134.2	384.4	243.7	214.5	217.9	161.3	132.1
67.5°	15829.1	15024.4	12702.7	3948.3	1105.0	386.1	205.9	192.2	168.2	137.3	116.7
70°	13303.3	12500.3	10192.4	3248.2	1091.3	386.1	175.0	164.7	140.7	115.0	101.2
72.5°	9427.1	8562.3	6875.6	2551.5	983.2	384.4	149.3	149.3	115.0	96.1	82.4
75°	5326.1	5333.0	4322.3	1805.1	816.8	317.4	120.1	118.4	84.1	73.8	61.8
77.5°	3104.0	3049.1	2913.6	775.6	379.2	144.1	84.1	72.1	58.3	53.2	44.6
80°	1595.8	1312.7	1278.3	281.4	135.6	90.9	58.3	41.2	37.7	34.3	30.9
82.5°	471.9	473.6	422.1	113.2	75.5	60.1	29.2	22.3	20.6	18.9	18.9
85°	32.6	20.6	24.0	34.3	46.3	24.0	1.7	5.1	5.1	6.9	8.6
87.5°	3.4	1.7	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°	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7
2.5°	6175.5	6251.0	6110.3	6113.7	5997.0	6034.8	5897.5	5942.1	5861.5	5923.3	6105.1
5°	4646.6	4663.8	4550.5	4514.5	4531.7	4602.0	4629.5	4504.2	4557.4	4452.7	4445.9
7.5°	3273.9	3294.5	3229.3	3220.7	3344.3	3315.1	3368.3	3239.6	3117.8	3171.0	3073.2
10°	2543.0	2457.2	2323.3	2285.6	2261.5	2277.0	2277.0	2160.3	2143.1	2096.8	2167.2
12.5°	2007.6	1902.9	1775.9	1604.4	1561.5	1558.0	1494.5	1391.6	1359.0	1319.5	1377.9
15°	1458.5	1415.6	1309.2	1213.1	1115.3	1096.5	993.5	909.4	797.9	782.4	777.3
17.5°	1026.1	962.6	960.9	906.0	849.4	811.6	715.5	619.4	576.5	571.4	571.4
20°	768.7	746.4	710.4	703.5	686.4	643.5	557.7	506.2	485.6	487.3	494.2
22.5°	646.9	631.4	598.8	583.4	576.5	538.8	475.3	441.0	430.7	430.7	432.4
25°	578.3	564.5	528.5	504.5	495.9	468.4	418.7	392.9	384.4	384.4	384.4
27.5°	526.8	509.6	471.9	451.3	435.8	405.0	374.1	348.3	339.7	339.7	341.5
30°	490.7	471.9	437.6	410.1	386.1	358.6	332.9	310.6	300.3	298.6	300.3
32.5°	442.7	425.5	391.2	374.1	346.6	314.0	293.4	272.8	262.5	264.2	262.5
35°	344.9	339.7	315.7	320.9	305.4	278.0	259.1	236.8	224.8	223.1	226.5
37.5°	314.0	293.4	266.0	267.7	262.5	252.2	221.4	197.3	188.7	188.7	190.5
40°	290.0	269.4	238.5	223.1	224.8	224.8	192.2	166.4	157.9	156.1	159.6
42.5°	269.4	248.8	214.5	188.7	181.9	190.5	163.0	137.3	128.7	125.3	128.7
45°	255.7	233.4	193.9	164.7	144.1	154.4	133.8	113.2	103.0	103.0	101.2
47.5°	241.9	221.4	178.5	142.4	120.1	115.0	109.8	90.9	80.6	78.9	80.6
50°	229.9	209.3	161.3	123.5	101.2	89.2	89.2	72.1	65.2	61.8	63.5
52.5°	217.9	195.6	145.9	109.8	87.5	72.1	63.5	58.3	53.2	51.5	53.2
55°	200.8	178.5	130.4	94.4	75.5	60.1	49.8	48.0	44.6	41.2	44.6
57.5°	180.2	159.6	115.0	80.6	60.1	46.3	41.2	39.5	36.0	34.3	34.3
59°	168.2	149.3	106.4	70.4	53.2	41.2	37.7	36.0	32.6	29.2	30.9
60°	161.3	145.9	101.2	65.2	48.0	37.7	34.3	32.6	29.2	27.5	29.2
62.5°	142.4	130.4	89.2	53.2	37.7	27.5	24.0	25.7	24.0	22.3	24.0
65°	125.3	115.0	75.5	41.2	29.2	18.9	17.2	22.3	20.6	18.9	20.6
67.5°	111.5	99.5	63.5	30.9	20.6	10.3	12.0	18.9	18.9	17.2	18.9
70°	96.1	85.8	51.5	22.3	10.3	5.1	8.6	13.7	17.2	15.4	17.2
72.5°	78.9	66.9	39.5	15.4	5.1	0.0	5.1	12.0	17.2	15.4	17.2
75°	61.8	49.8	29.2	8.6	0.0	0.0	1.7	10.3	17.2	15.4	17.2
77.5°	44.6	36.0	17.2	1.7	0.0	0.0	1.7	10.3	17.2	15.4	17.2
80°	29.2	25.7	6.9	0.0	0.0	0.0	1.7	10.3	17.2	17.2	18.9
82.5°	18.9	13.7	0.0	0.0	0.0	0.0	3.4	13.7	18.9	20.6	20.6
85°	8.6	0.0	0.0	0.0	0.0	0.0	6.9	17.2	22.3	22.3	22.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	12.0	20.6	25.7	25.7	25.7
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°	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7
2.5°	6136.0	6244.1	6396.8	6631.9	6822.4	7122.7	7352.6	7666.6	7984.0	8080.1	8229.4
5°	4516.2	4655.2	5001.8	5317.5	5516.6	6151.5	6553.0	7186.2	7754.1	8026.9	8323.8
7.5°	3136.7	3301.4	3565.6	4006.6	4425.3	4941.8	5590.4	6314.5	7146.7	7536.2	7954.9
10°	2201.5	2407.4	2779.7	3141.8	3668.6	4159.3	4799.4	5599.0	6517.0	6976.8	7501.9
12.5°	1389.9	1573.5	2065.9	2472.6	3129.8	3699.5	4289.7	5013.8	6077.7	6549.6	7100.4
15°	794.5	948.9	1178.8	1700.4	2429.7	3183.0	3919.1	4759.9	5852.9	6434.6	7030.0
17.5°	592.0	633.2	736.1	1031.3	1695.3	2575.6	3577.6	4682.7	6005.6	6688.5	7368.0
20°	497.6	525.1	573.1	689.8	1081.0	1983.6	3244.8	4696.4	6499.8	7357.7	8002.9
22.5°	446.1	463.3	502.8	578.3	737.8	1444.8	2855.2	4777.0	7098.6	8179.7	8924.4
25°	391.2	413.5	447.8	513.1	614.3	1002.1	2470.9	4957.2	7937.7	9222.9	9923.0
27.5°	348.3	368.9	403.2	463.3	538.8	765.3	2023.0	5111.6	8823.1	10273.0	10846.2
30°	305.4	326.0	360.3	408.4	477.0	619.4	1540.9	5202.6	9682.8	11060.6	11501.6
32.5°	269.4	286.6	319.2	362.1	418.7	525.1	1214.9	5108.2	10340.0	11776.2	12071.3
35°	233.4	254.0	281.4	320.9	370.6	447.8	1010.7	4782.2	10904.5	12512.3	12618.7
37.5°	195.6	219.6	248.8	284.8	324.3	411.8	811.6	4421.9	11508.5	13430.3	13255.3
40°	164.7	187.0	214.5	254.0	290.0	377.5	624.6	4037.5	12160.5	14291.7	13950.2
42.5°	133.8	157.9	190.5	226.5	286.6	329.5	483.9	3639.4	12745.6	15041.5	14578.2
45°	106.4	127.0	161.3	207.6	284.8	283.1	374.1	3246.5	13186.6	15576.9	15046.7
47.5°	84.1	101.2	135.6	202.5	262.5	240.2	300.3	3002.8	13649.9	16059.0	15405.3
50°	66.9	84.1	116.7	211.1	229.9	205.9	252.2	3042.3	14097.8	16304.4	15552.8
52.5°	56.6	73.8	101.2	166.4	176.7	180.2	221.4	3224.2	14676.0	16566.9	15846.3
55°	49.8	65.2	85.8	116.7	137.3	161.3	202.5	3356.3	15449.9	17129.8	16493.2
57.5°	39.5	56.6	77.2	99.5	113.2	140.7	187.0	3366.6	16150.0	17852.1	17352.8
59°	36.0	51.5	72.1	94.4	101.2	127.0	176.7	3279.1	16175.7	17960.2	17747.5
60°	32.6	49.8	68.6	87.5	96.1	120.1	168.2	3177.8	15942.4	17788.7	17910.5
62.5°	27.5	42.9	60.1	70.4	82.4	99.5	145.9	2810.6	14811.6	17011.4	17608.5
65°	24.0	37.7	51.5	58.3	68.6	85.8	128.7	2249.5	13562.4	15957.8	16743.7
67.5°	22.3	34.3	44.6	49.8	60.1	78.9	115.0	1588.9	11944.3	14621.1	15444.7
70°	20.6	32.6	39.5	46.3	53.2	66.9	97.8	926.6	9200.6	12277.2	13147.2
72.5°	20.6	30.9	34.3	39.5	46.3	60.1	90.9	501.0	6290.5	9365.3	10489.2
75°	20.6	29.2	30.9	34.3	41.2	54.9	80.6	262.5	4066.7	6506.7	8030.4
77.5°	20.6	27.5	30.9	32.6	39.5	48.0	70.4	164.7	2709.4	4557.4	5427.4
80°	22.3	27.5	29.2	32.6	37.7	44.6	58.3	109.8	1592.3	2742.0	3303.1
82.5°	24.0	27.5	30.9	34.3	39.5	42.9	51.5	68.6	734.4	1813.7	2052.2
85°	25.7	29.2	32.6	36.0	41.2	42.9	48.0	49.8	120.1	818.5	1106.8
87.5°	27.5	30.9	34.3	37.7	44.6	44.6	44.6	44.6	41.2	87.5	223.1
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°	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7	7460.7
2.5°	8418.2	8612.1	8747.6	8781.9	8684.1	8639.5	8516.0	8323.8	8207.1	8202.0
5°	8871.2	9325.9	9641.6	9694.8	9506.0	9186.9	8807.7	8318.6	8032.1	7946.3
7.5°	8793.9	9590.1	10098.0	10171.8	9854.4	9245.2	8510.8	7723.2	7410.9	7278.8
10°	8476.5	9447.7	10173.5	10290.2	9866.4	9008.4	8075.0	7196.5	6808.7	6707.4
12.5°	8205.4	9186.9	9832.1	9993.4	9672.5	8816.3	7814.2	6858.4	6443.2	6348.8
15°	8087.0	8878.0	9272.7	9355.0	9301.9	8696.1	7786.7	6806.9	6331.6	6228.7
17.5°	8205.4	8615.5	8665.3	8749.3	8867.7	8684.1	8051.0	7086.6	6573.6	6446.6
20°	8516.0	8387.3	8181.4	8217.4	8488.5	8733.9	8521.1	7706.1	7081.5	6945.9
22.5°	9044.5	8330.7	7863.9	7833.0	8176.2	8900.3	9210.9	8545.1	7821.0	7687.2
25°	9693.1	8473.1	7747.3	7680.3	8054.4	9144.0	9960.8	9573.0	8781.9	8577.7
27.5°	10400.0	8768.2	7747.3	7682.0	8044.1	9360.2	10602.5	10482.4	9777.2	9554.1
30°	10787.8	9011.9	7858.8	7785.0	8171.1	9485.5	10945.7	11290.6	10525.3	10249.0
32.5°	11134.4	9349.9	8076.7	7937.7	8437.0	9670.8	11252.8	11976.9	11120.7	10935.4
35°	11453.6	9711.9	8377.0	8215.7	8787.1	9924.7	11592.6	12697.6	11949.5	11669.8
37.5°	11805.3	10132.3	8845.4	8708.2	9372.2	10418.9	11995.8	13644.8	12764.5	12412.8
40°	12188.0	10619.7	9615.9	9557.5	10302.2	10978.3	12505.4	14655.4	13694.5	13294.7
42.5°	12577.5	11180.8	10559.6	10655.7	11355.8	11762.4	13028.8	15432.7	14456.4	14015.4
45°	12931.0	11898.0	11786.5	12261.8	12584.4	12527.7	13416.6	15980.1	15120.4	14698.3
47.5°	13377.1	12943.0	13270.7	14003.4	14012.0	13359.9	13710.0	16428.0	15691.8	15269.7
50°	13876.4	14176.7	15187.4	15933.8	15733.0	14178.4	14053.2	16958.2	16282.1	15944.1
52.5°	14454.7	15558.0	16958.2	17786.9	17318.5	15070.7	14624.5	17531.3	17219.0	16894.7
55°	15127.3	16500.0	18723.8	19384.4	18912.6	16179.1	15492.8	18308.6	18277.7	18056.3
57.5°	15887.4	17495.2	19746.5	20640.5	20220.1	17479.8	16705.9	19041.3	18924.6	18801.0
59°	16488.0	18006.6	20197.8	21124.3	20870.4	18390.9	17521.0	19497.7	19073.9	18888.5
60°	16851.8	18353.2	20364.2	21189.6	21131.2	18933.2	18037.5	19720.7	19072.1	18814.8
62.5°	17931.1	18958.9	20300.7	20899.6	21127.8	19973.0	19552.6	19966.1	18718.7	18341.2
65°	18315.4	18758.1	19248.9	19175.1	19370.7	19919.8	20520.4	19696.7	17963.7	17426.6
67.5°	17567.3	16556.6	16729.9	16237.5	16141.4	17709.7	20127.4	18378.9	16486.3	15829.1
70°	14808.1	12683.9	12596.4	12822.9	12201.7	14338.0	18073.5	15841.1	14048.0	13303.3
72.5°	11656.1	8963.8	8226.0	9059.9	9041.0	10938.8	15014.1	11240.8	9490.6	9427.1
75°	9166.3	6240.7	5477.1	5612.7	5873.5	7918.8	11958.1	7138.1	5844.3	5326.1
77.5°	6153.2	4421.9	4125.0	3958.6	4240.0	5084.2	7565.4	3871.1	3277.4	3104.0
80°	3546.7	3212.2	3648.0	3311.7	3462.7	3203.6	3763.0	1775.9	1474.0	1595.8
82.5°	2307.9	1829.1	1949.3	1448.2	1980.1	1997.3	1208.0	525.1	444.4	471.9
85°	1443.1	857.9	482.2	343.2	682.9	1256.0	377.5	32.6	37.7	32.6
87.5°	374.1	142.4	60.1	89.2	109.8	97.8	87.5	5.1	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)