

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: P648053

Luminaire Tested: **GALN-SA7A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13787.8 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

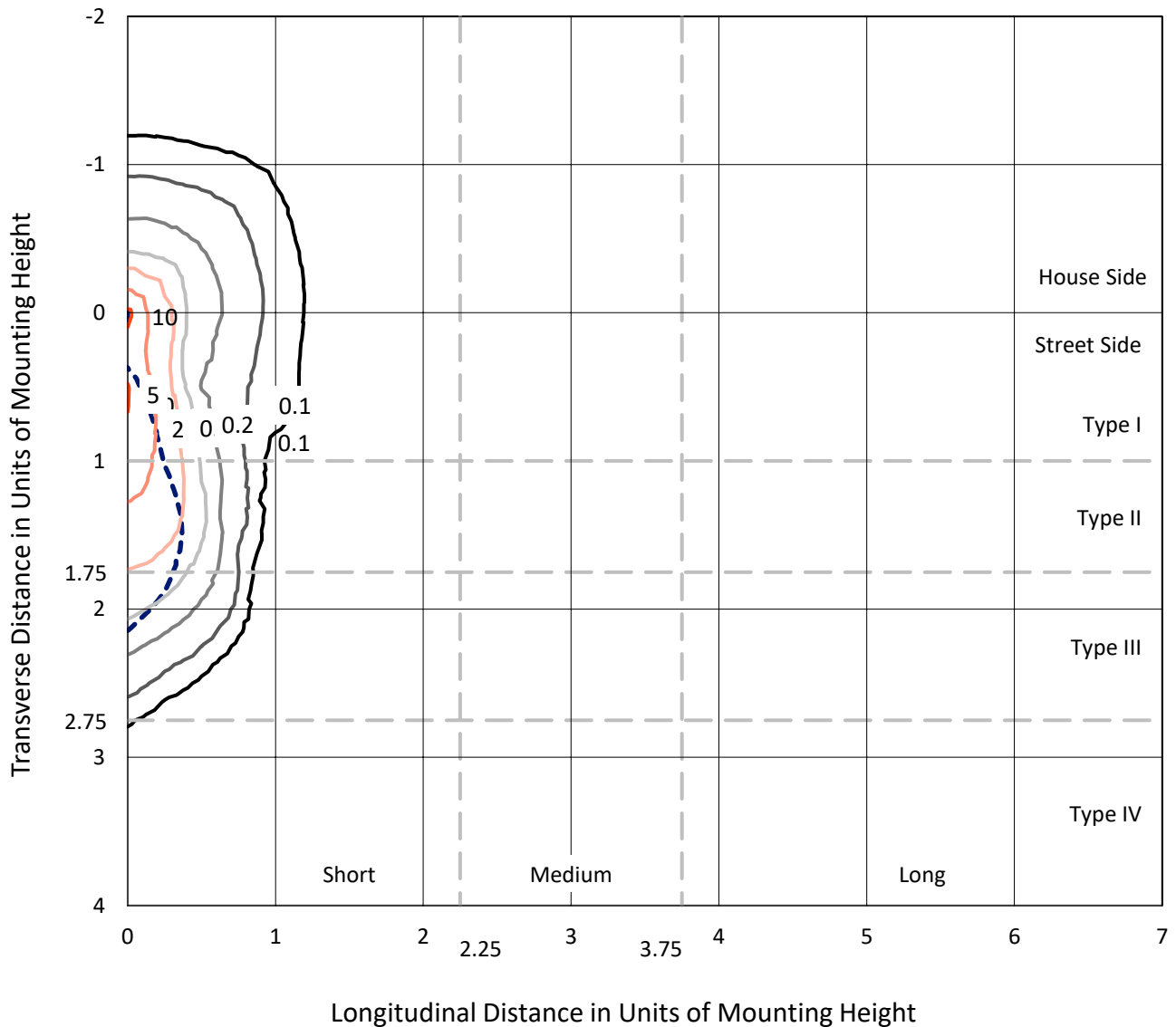
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

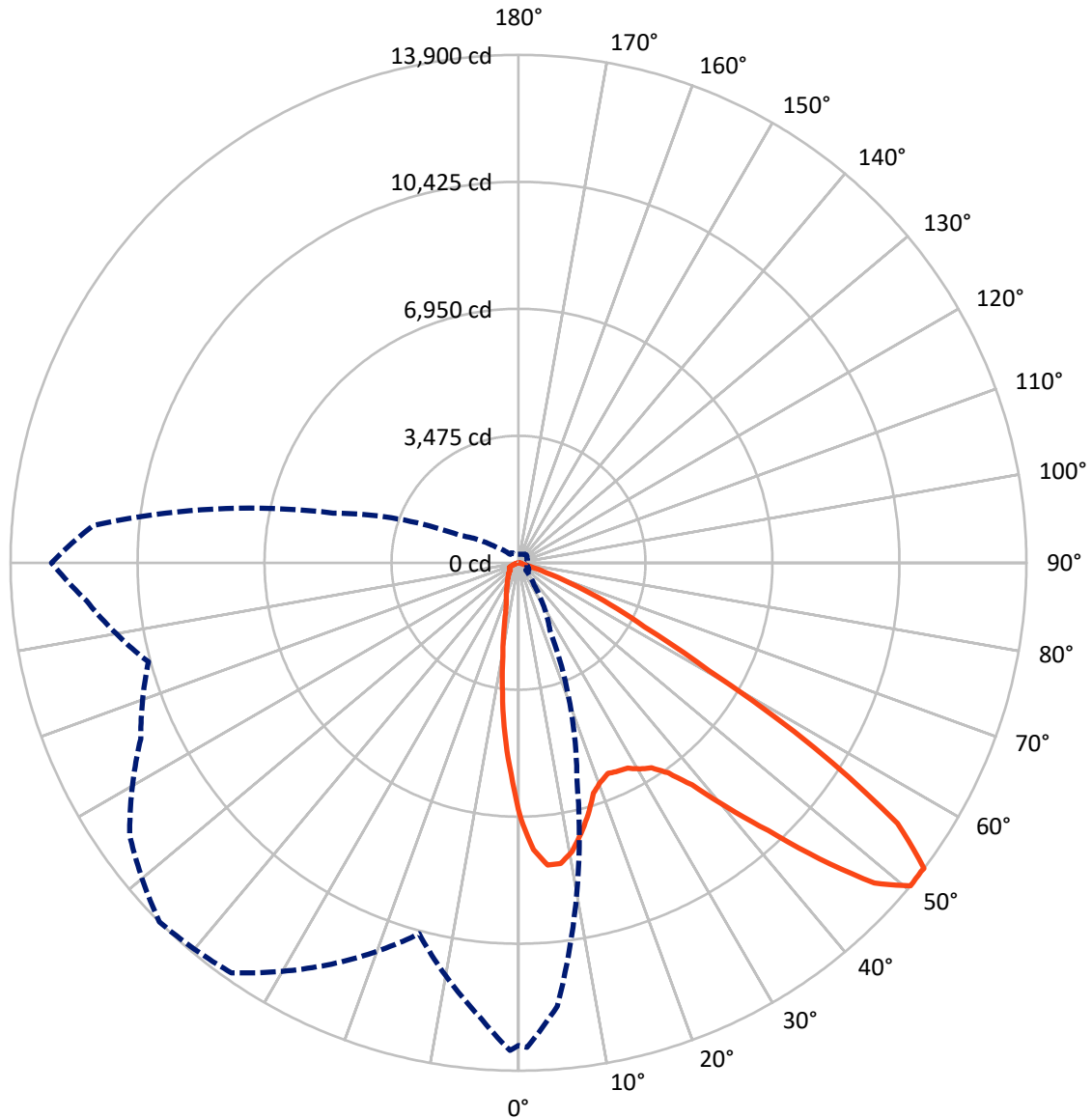
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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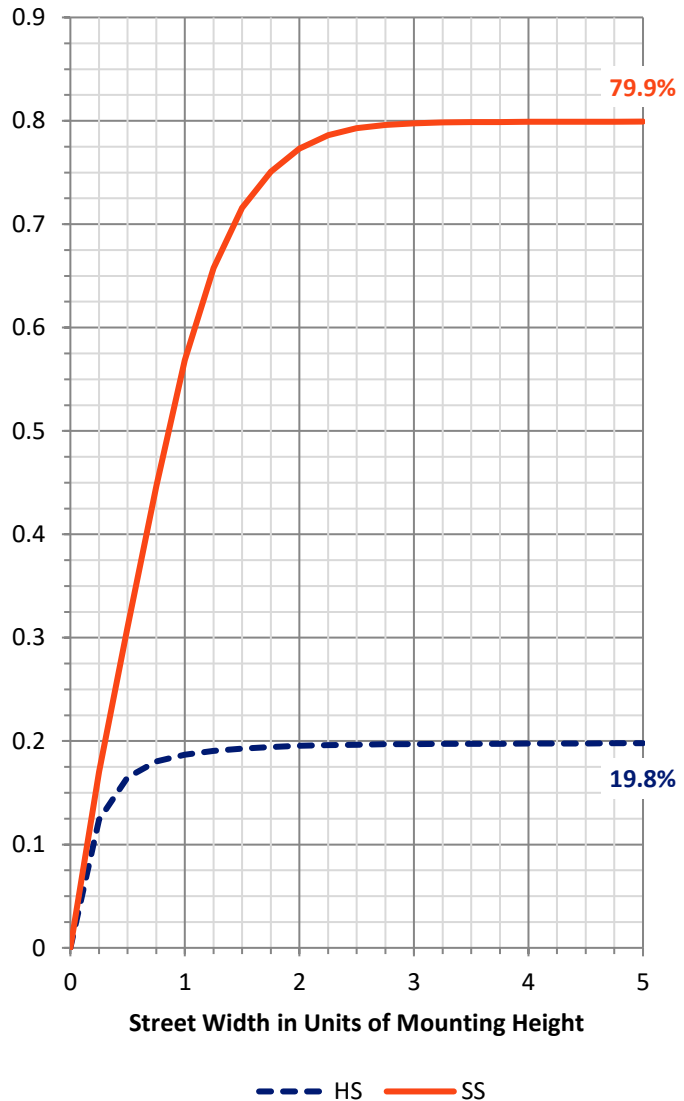
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.7	0.0	2761.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11026.1	0.0	11026.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	13787.8	0.0	13787.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	3.7
10°-20°	1012.9	7.3
20°-30°	1521.7	11.0
30°-40°	2284.0	16.6
40°-50°	3210.1	23.3
50°-60°	3462.6	25.1
60°-70°	1607.7	11.7
70°-80°	151.3	1.1
80°-90°	27.9	0.2
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°	13787.8	100.0
0°-180°	13787.8	100.0

Coefficient of Utilization

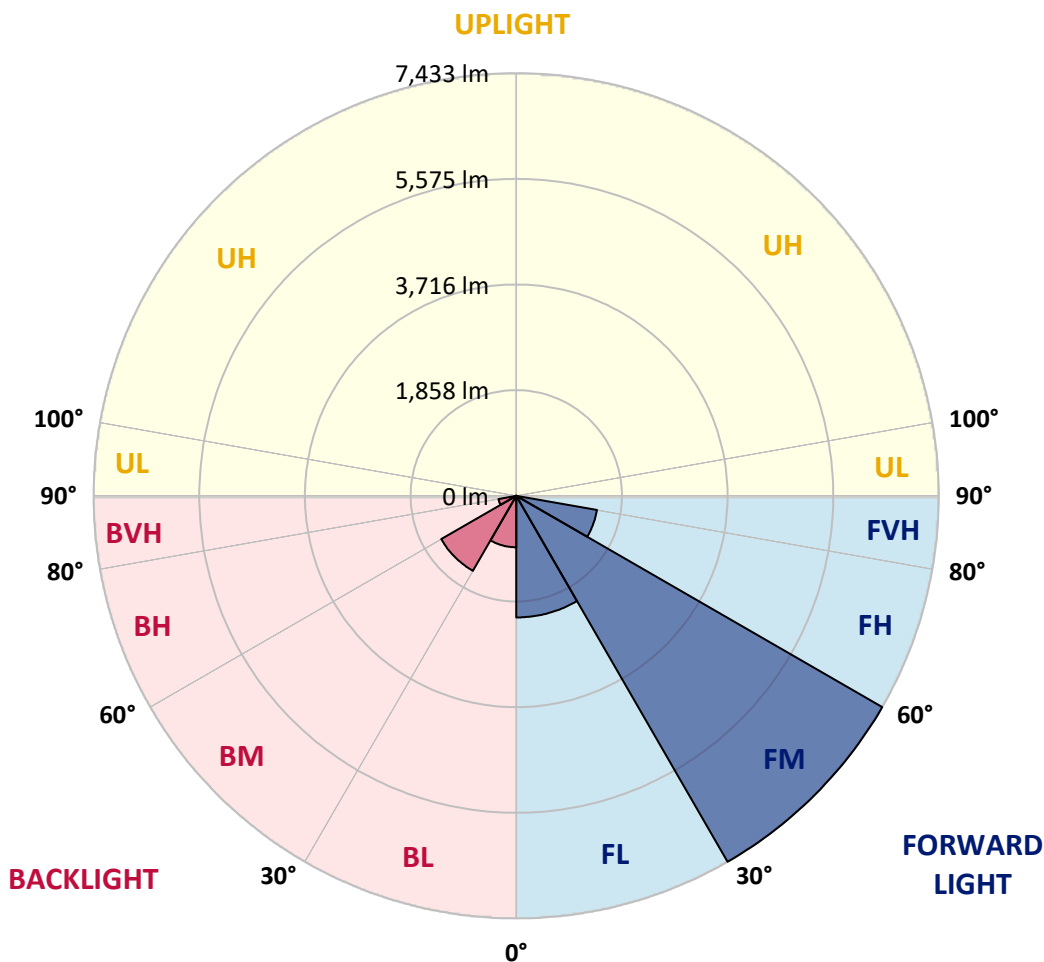


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.1	15.5			
FM (30°-60°)	7432.7	53.9			
FH (60°-80°)	1441.8	10.5			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	905.2	6.6	B2/1000		
BM (30°-60°)	1524.0	11.1	B2/2500		
BH (60°-80°)	317.1	2.3	B1/500		G1/500
BVH (80°-90°)	15.3	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	7268.4	7156.3	7014.0	6896.4	6721.4	6368.5	6272.7	6157.8	6062.1	5933.5	5752.9
5°	6609.2	6573.6	6508.0	6064.8	5744.7	5318.0	4967.8	4820.1	4625.9	4467.2	4352.3
7.5°	6105.8	5963.6	5755.7	5309.8	4798.2	4341.4	3952.9	3725.9	3468.8	3381.2	3225.3
10°	5566.9	5599.8	5293.4	4666.9	4048.7	3679.4	3438.6	3219.8	2987.3	2834.1	2612.5
12.5°	5394.6	5287.9	5052.6	4278.5	3750.5	3405.8	3113.1	2842.3	2596.1	2349.9	2136.5
15°	5506.8	5342.6	5014.3	4196.4	3520.7	3091.2	2724.7	2358.1	2131.0	1816.4	1594.8
17.5°	5908.9	5777.6	5337.2	4283.9	3403.1	2790.3	2246.0	1868.4	1521.0	1236.5	1124.3
20°	6579.1	6393.1	5840.5	4396.1	3228.0	2426.4	1821.9	1356.9	1028.5	908.2	845.3
22.5°	7235.6	7134.5	6436.9	4612.2	3072.1	2103.7	1367.8	913.7	768.7	746.8	705.8
25°	8485.8	8182.2	7347.8	5003.4	2951.7	1800.0	1031.3	735.9	651.1	634.6	640.1
27.5°	9229.9	8975.5	8190.3	5263.2	2817.6	1567.5	872.7	675.7	618.3	582.7	569.0
30°	9943.9	9648.4	8608.9	5416.5	2530.4	1321.3	774.2	648.3	634.6	582.7	566.3
32.5°	10493.8	10203.7	9213.5	5646.3	2412.8	1162.6	637.4	506.1	470.5	465.0	514.3
35°	11336.3	11027.1	9730.5	5772.1	2322.5	1080.5	552.6	451.4	410.4	393.9	396.7
37.5°	12121.4	11910.8	10209.2	5821.4	2226.8	1056.0	495.2	404.9	369.3	358.4	355.6
40°	12777.9	12307.4	10663.4	5873.3	2185.7	1009.4	459.5	369.3	344.7	328.2	328.2
42.5°	13078.8	12600.1	11172.2	5843.2	2174.8	935.6	459.5	339.2	320.1	303.6	300.9
45°	13013.2	12819.0	11399.2	5829.5	2174.8	861.7	418.5	331.0	303.6	281.8	276.3
47.5°	13182.8	12928.4	11683.7	5887.0	2131.0	809.7	352.9	347.4	287.2	259.9	254.4
50°	13212.9	13262.1	12178.9	6185.2	2035.3	744.1	276.3	341.9	276.3	235.3	229.8
52°	13409.9	13103.5	12329.4	6343.9	1934.1	694.8	232.6	292.7	265.4	218.8	213.4
52.5°	13139.1	13338.7	12364.9	6401.3	1945.0	662.0	224.3	287.2	259.9	218.8	205.1
55°	12835.4	13026.9	12219.9	6524.4	1783.6	519.8	175.1	207.9	235.3	191.5	183.3
57.5°	11155.7	11350.0	10619.6	5974.5	1452.6	366.6	145.0	155.9	207.9	177.8	169.6
60°	9916.5	9777.0	8912.6	4984.3	1031.3	205.1	114.9	120.3	227.1	164.1	161.4
62.5°	9063.0	8764.8	7449.0	3849.0	629.2	136.8	90.3	93.0	175.1	153.2	153.2
65°	6704.9	6371.2	4948.7	2328.0	309.1	95.8	68.4	73.8	109.4	131.3	131.3
67.5°	3827.1	3698.5	2390.9	1050.5	128.6	60.2	52.0	57.5	84.8	106.7	101.2
70°	1759.0	1578.4	919.2	221.6	60.2	41.0	41.0	46.5	68.4	79.3	73.8
72.5°	514.3	486.9	224.3	35.5	24.6	24.6	27.3	35.5	52.0	60.2	54.7
75°	38.3	24.6	16.4	11.0	11.0	16.4	21.8	35.5	52.0	57.5	46.5
77.5°	2.7	5.5	2.7	2.7	8.2	16.4	24.6	43.8	68.4	71.1	52.0
80°	2.7	2.7	0.0	2.7	8.2	16.4	27.3	49.3	76.6	82.1	43.8
82.5°	0.0	0.0	0.0	2.7	11.0	21.8	32.8	52.0	71.1	87.5	46.5
85°	0.0	0.0	0.0	2.7	16.4	30.1	38.3	13.7	8.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	5881.5	5810.4	5783.1	5807.7	5799.4	5791.2	5941.7	5908.9	5903.4	5952.7	5941.7
5°	4415.3	4289.4	4634.1	4494.6	4639.6	4727.1	4743.5	4751.7	4853.0	4746.2	4885.8
7.5°	3145.9	3178.7	3176.0	3269.0	3435.9	3583.6	3671.2	3602.7	3597.3	3583.6	3523.4
10°	2514.0	2456.6	2445.6	2423.7	2475.7	2601.5	2708.2	2623.4	2563.2	2645.3	2620.7
12.5°	2054.4	1975.1	1931.3	1843.8	1846.5	1931.3	1931.3	1931.3	1991.5	2038.0	2073.5
15°	1575.7	1510.0	1510.0	1422.5	1403.4	1406.1	1449.9	1455.4	1551.0	1578.4	1592.2
17.5°	1102.5	1066.9	1107.9	1143.5	1121.6	1127.1	1143.5	1149.0	1162.6	1151.7	1179.0
20°	848.1	842.6	853.5	916.4	962.9	990.3	971.2	943.7	927.4	889.1	889.1
22.5°	719.5	730.4	749.6	801.6	861.7	878.1	856.2	793.3	744.1	738.6	741.3
25°	640.1	651.1	681.1	714.0	746.8	774.2	752.3	705.8	678.4	653.8	653.8
27.5°	590.9	596.3	612.8	637.4	664.8	686.6	678.4	653.8	623.7	612.8	588.2
30°	552.6	560.8	580.0	585.4	610.0	621.0	607.3	601.8	582.7	569.0	560.8
32.5°	533.5	530.7	544.4	549.8	552.6	560.8	544.4	552.6	549.8	528.0	519.8
35°	402.1	424.0	459.5	489.7	497.9	508.8	506.1	495.2	465.0	440.4	410.4
37.5°	361.1	374.7	393.9	418.5	451.4	465.0	459.5	432.2	396.7	380.2	374.7
40°	333.7	341.9	358.4	374.7	407.6	432.2	413.1	388.4	361.1	347.4	339.2
42.5°	309.1	311.9	320.1	336.5	361.1	399.4	366.6	333.7	322.8	314.6	309.1
45°	281.8	281.8	292.7	300.9	328.2	363.9	331.0	300.9	295.4	289.9	287.2
47.5°	259.9	262.6	268.1	279.1	300.9	325.6	303.6	279.1	265.4	262.6	257.1
50°	232.6	235.3	246.2	257.1	284.5	298.2	284.5	257.1	243.4	235.3	235.3
52°	210.6	218.8	229.8	251.7	270.8	292.7	276.3	246.2	229.8	221.6	216.1
52.5°	207.9	213.4	224.3	248.9	270.8	289.9	273.6	243.4	224.3	218.8	213.4
55°	186.0	194.3	213.4	243.4	268.1	289.9	268.1	240.7	213.4	199.7	194.3
57.5°	177.8	183.3	207.9	246.2	265.4	289.9	268.1	240.7	213.4	188.8	183.3
60°	169.6	180.6	207.9	238.0	262.6	292.7	270.8	238.0	207.9	177.8	177.8
62.5°	161.4	169.6	205.1	232.6	251.7	281.8	259.9	232.6	199.7	169.6	166.9
65°	139.5	153.2	180.6	194.3	216.1	243.4	221.6	202.4	175.1	150.5	147.8
67.5°	106.7	112.1	134.0	150.5	164.1	188.8	177.8	153.2	134.0	114.9	114.9
70°	73.8	79.3	95.8	104.0	117.6	131.3	123.1	104.0	90.3	79.3	76.6
72.5°	52.0	54.7	60.2	65.6	71.1	76.6	73.8	60.2	52.0	49.3	46.5
75°	41.0	46.5	49.3	46.5	43.8	41.0	41.0	35.5	30.1	27.3	27.3
77.5°	41.0	43.8	41.0	35.5	30.1	27.3	24.6	21.8	16.4	13.7	16.4
80°	35.5	35.5	35.5	30.1	27.3	24.6	21.8	19.2	16.4	13.7	13.7
82.5°	38.3	38.3	35.5	30.1	30.1	24.6	24.6	21.8	19.2	13.7	13.7
85°	0.0	0.0	0.0	5.5	13.7	24.6	24.6	21.8	19.2	16.4	16.4
87.5°	0.0	0.0	0.0	0.0	2.7	5.5	11.0	13.7	16.4	16.4	16.4
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°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	6040.2	6144.1	6341.1	6538.0	6658.4	6800.7	7057.8	7194.6	7372.4	7460.0	7632.3
5°	4866.7	5112.8	5200.4	5424.7	5665.4	5906.2	6289.1	6710.4	7060.5	7301.3	7613.2
7.5°	3550.8	3608.2	3947.5	4097.9	4491.8	4929.5	5452.0	5982.7	6425.9	6819.9	7057.8
10°	2661.7	2872.4	3085.7	3373.0	3690.3	4141.7	4642.3	5227.7	5802.2	6196.1	6497.0
12.5°	2139.2	2306.1	2590.6	2899.8	3290.9	3589.1	4092.4	4672.4	5416.5	5802.2	6198.9
15°	1619.5	1832.8	2155.7	2475.7	2888.8	3203.4	3712.2	4442.6	5400.0	5930.8	6272.7
17.5°	1200.9	1345.9	1635.9	1994.2	2415.6	2858.7	3545.3	4418.0	5583.3	6215.3	6568.2
20°	919.2	968.4	1151.7	1471.7	1928.6	2508.6	3274.5	4524.6	6125.0	6907.4	7265.8
22.5°	744.1	765.9	837.1	1058.7	1501.9	2202.2	3145.9	4598.6	6735.1	7736.3	8215.0
25°	648.3	642.8	689.4	785.1	1173.6	1914.9	2981.8	4877.5	7481.9	8710.1	9139.6
27.5°	590.9	590.9	612.8	681.1	973.9	1728.9	2877.8	5077.3	8234.1	9566.4	9798.9
30°	560.8	566.3	629.2	651.1	809.7	1507.3	2705.5	5279.7	8953.6	10113.5	10433.6
32.5°	519.8	497.9	484.2	538.9	681.1	1307.6	2533.2	5364.5	9536.3	10783.7	11057.3
35°	399.4	388.4	404.9	445.9	585.4	1138.0	2341.6	5460.3	10206.5	11560.6	11615.3
37.5°	361.1	358.4	369.3	404.9	492.4	990.3	2204.8	5435.6	10718.0	12203.4	12055.8
40°	333.7	333.7	341.9	372.0	440.4	886.4	2062.7	5413.7	11213.2	12925.7	12493.5
42.5°	311.9	311.9	325.6	344.7	418.5	817.9	1955.9	5383.7	11629.0	13368.9	12750.6
45°	281.8	289.9	311.9	331.0	424.0	771.4	1876.6	5268.7	11771.2	13363.4	12627.5
47.5°	259.9	270.8	292.7	320.1	383.0	757.8	1821.9	5167.6	11722.0	13035.1	12241.8
50°	235.3	248.9	279.1	325.6	325.6	730.4	1764.5	5257.8	11686.4	12780.7	11872.5
52°	218.8	229.8	268.1	317.3	284.5	673.0	1728.9	5432.9	11831.4	12747.9	11708.4
52.5°	216.1	224.3	259.9	311.9	270.8	662.0	1704.3	5474.0	11878.0	12665.8	11820.5
55°	191.5	202.4	238.0	243.4	221.6	544.4	1625.0	5566.9	11648.1	12504.4	11713.8
57.5°	180.6	186.0	210.6	199.7	191.5	410.4	1397.9	5422.0	10346.0	11106.5	10898.6
60°	166.9	172.3	196.9	155.9	161.4	287.2	1050.5	4707.9	8308.0	9254.5	9629.3
62.5°	161.4	158.6	186.0	125.8	136.8	207.9	741.3	3827.1	6401.3	7618.6	8267.0
65°	142.3	139.5	134.0	106.7	117.6	161.4	443.2	2497.6	4511.0	5763.9	6119.5
67.5°	109.4	114.9	98.5	84.8	98.5	125.8	246.2	1118.8	2366.3	3457.8	3745.0
70°	76.6	82.1	79.3	73.8	87.5	104.0	142.3	383.0	979.4	1816.4	2002.4
72.5°	46.5	57.5	60.2	63.0	76.6	90.3	101.2	123.1	259.9	642.8	798.8
75°	27.3	38.3	46.5	54.7	63.0	76.6	84.8	87.5	90.3	120.3	194.3
77.5°	19.2	27.3	41.0	52.0	63.0	76.6	90.3	95.8	90.3	84.8	90.3
80°	16.4	27.3	38.3	49.3	65.6	79.3	90.3	90.3	87.5	76.6	82.1
82.5°	16.4	27.3	41.0	52.0	63.0	76.6	87.5	90.3	82.1	76.6	79.3
85°	19.2	30.1	43.8	54.7	68.4	63.0	57.5	46.5	43.8	35.5	38.3
87.5°	19.2	27.3	27.3	30.1	32.8	32.8	32.8	30.1	24.6	21.8	21.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	7640.5	7859.4	7851.1	7856.6	7823.8	7602.2	7495.5	7224.7	7301.3	7268.4
5°	7933.2	8149.3	8335.3	8313.5	8061.8	7760.9	7314.9	6893.7	6778.8	6609.2
7.5°	7640.5	8160.3	8332.6	8308.0	7935.9	7550.2	6839.0	6417.7	6218.0	6105.8
10°	7175.5	7777.3	7990.7	8034.4	7782.8	7197.3	6543.5	5867.9	5761.2	5566.9
12.5°	6910.1	7347.8	7479.1	7596.7	7509.2	7071.5	6319.2	5670.9	5523.1	5394.6
15°	6694.0	6953.9	7008.6	7142.6	7194.6	6959.4	6436.9	5884.2	5520.5	5506.8
17.5°	6893.7	6787.0	6587.3	6628.3	6792.4	6962.1	6740.5	6305.6	5952.7	5908.9
20°	7224.7	6754.2	6302.8	6404.0	6540.8	7060.5	7200.1	6893.7	6691.3	6579.1
22.5°	7605.0	6811.6	6212.6	6261.8	6521.7	7282.1	7944.2	7774.6	7397.1	7235.6
25°	8308.0	6970.3	6283.7	6316.5	6672.1	7591.3	8617.1	8743.0	8518.6	8485.8
27.5°	8994.6	7380.6	6439.5	6365.7	6748.7	7892.2	9024.7	9700.4	9306.5	9229.9
30°	9344.8	7714.4	6672.1	6546.3	7066.0	8075.5	9271.0	10324.1	9979.4	9943.9
32.5°	9881.0	8018.0	6852.7	6691.3	7243.8	8302.5	9730.5	11005.3	10671.6	10493.8
35°	10105.3	8349.1	7249.3	7060.5	7752.6	8619.9	9965.8	11612.6	11508.6	11336.3
37.5°	10537.5	8704.7	7717.1	7706.1	8368.2	9032.9	10389.8	12438.7	12419.6	12121.4
40°	10573.1	9093.1	8455.7	8800.4	9320.1	9752.4	10761.8	12668.5	12980.4	12777.9
42.5°	10627.8	9774.3	9733.2	10017.8	10463.6	10370.6	10775.5	12723.3	13199.3	13078.8
45°	10652.4	10455.4	11032.6	11557.9	11743.9	11180.4	10646.9	12619.3	13314.1	13013.2
47.5°	10455.4	11040.8	12083.1	13098.0	13152.8	11678.2	10592.2	12512.6	13382.5	13182.8
50°	10482.8	11407.4	12991.3	13899.6	13699.8	12118.6	10507.4	12447.0	13346.9	13212.9
52°	10417.1	11415.6	13119.9	13883.1	13743.6	11875.2	10362.5	12195.3	13314.1	13409.9
52.5°	10491.0	11366.4	12985.9	13894.1	13713.5	11995.6	10343.3	12334.8	13333.3	13139.1
55°	10236.6	10781.0	12200.8	12586.5	12559.1	10887.7	9755.2	11872.5	12832.7	12835.4
57.5°	9251.8	9344.8	9569.1	9560.9	9435.1	8559.7	8343.6	10917.8	11440.3	11155.7
60°	8152.0	6841.7	6237.1	5991.0	5851.4	5709.2	7380.6	9987.6	10036.9	9916.5
62.5°	7044.2	4743.5	3939.3	3870.8	3903.7	4423.5	7134.5	9618.4	9322.9	9063.0
65°	5684.6	3457.8	2861.4	2771.2	3091.2	3652.0	5774.9	7375.2	6921.0	6704.9
67.5°	3569.9	2522.2	1934.1	1764.5	2150.2	2514.0	3794.3	4634.1	4125.3	3827.1
70°	2117.3	1408.9	875.4	785.1	883.6	1340.4	2125.5	2311.6	1912.2	1759.0
72.5°	834.4	517.0	243.4	207.9	216.1	470.5	782.4	763.3	577.2	514.3
75°	224.3	155.9	84.8	68.4	57.5	87.5	125.8	82.1	30.1	38.3
77.5°	104.0	93.0	73.8	57.5	43.8	32.8	16.4	5.5	5.5	2.7
80°	90.3	79.3	68.4	57.5	43.8	27.3	13.7	2.7	2.7	2.7
82.5°	84.8	73.8	63.0	52.0	41.0	27.3	13.7	2.7	0.0	0.0
85°	35.5	46.5	52.0	49.3	43.8	27.3	13.7	2.7	0.0	0.0
87.5°	19.2	16.4	13.7	11.0	8.2	5.5	5.5	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

(END OF REPORT)