

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: P528133

Luminaire Tested: **GALN-SA3B-722-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528133
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-SA3B-722-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 800mA 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: 6904 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

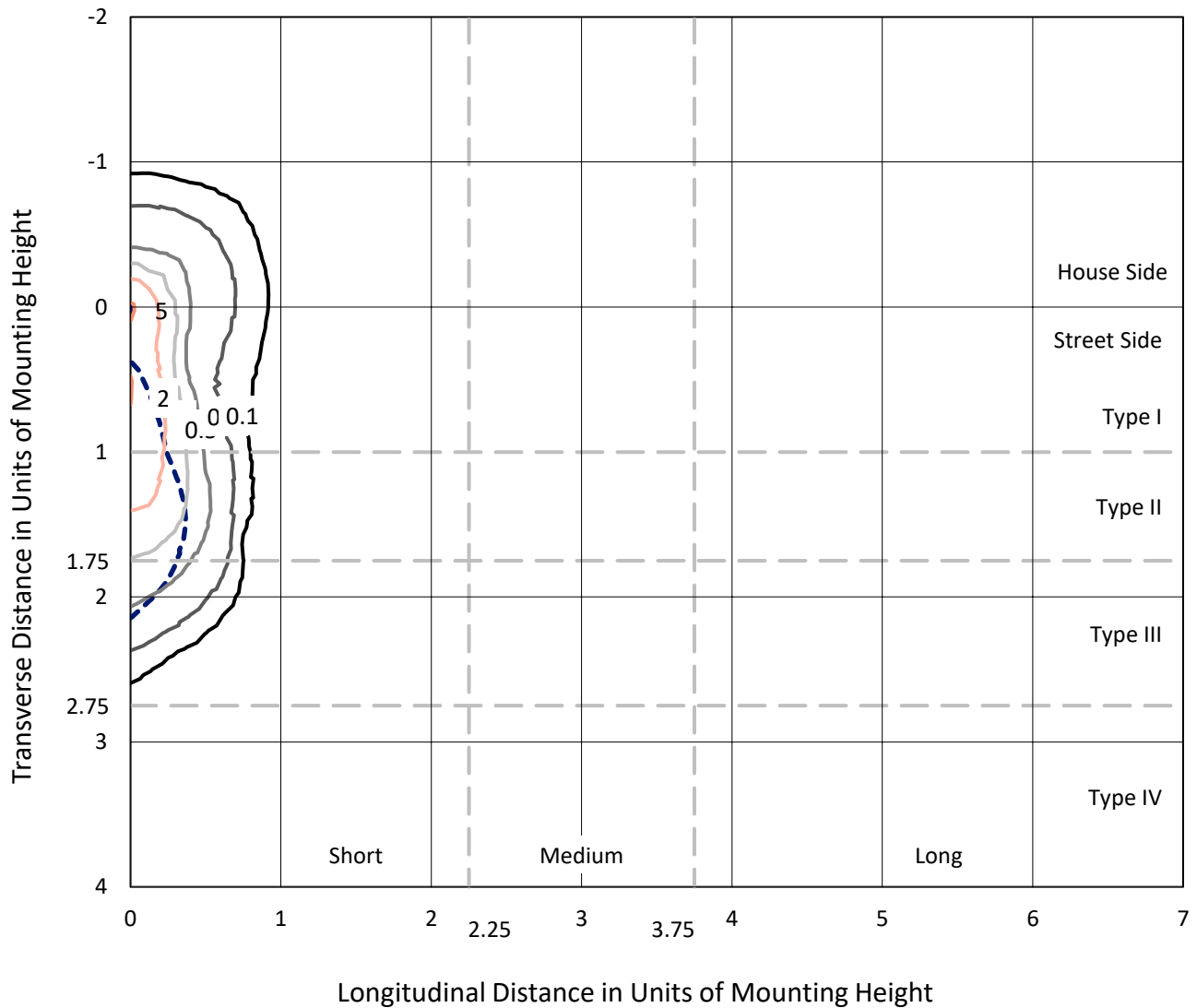
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

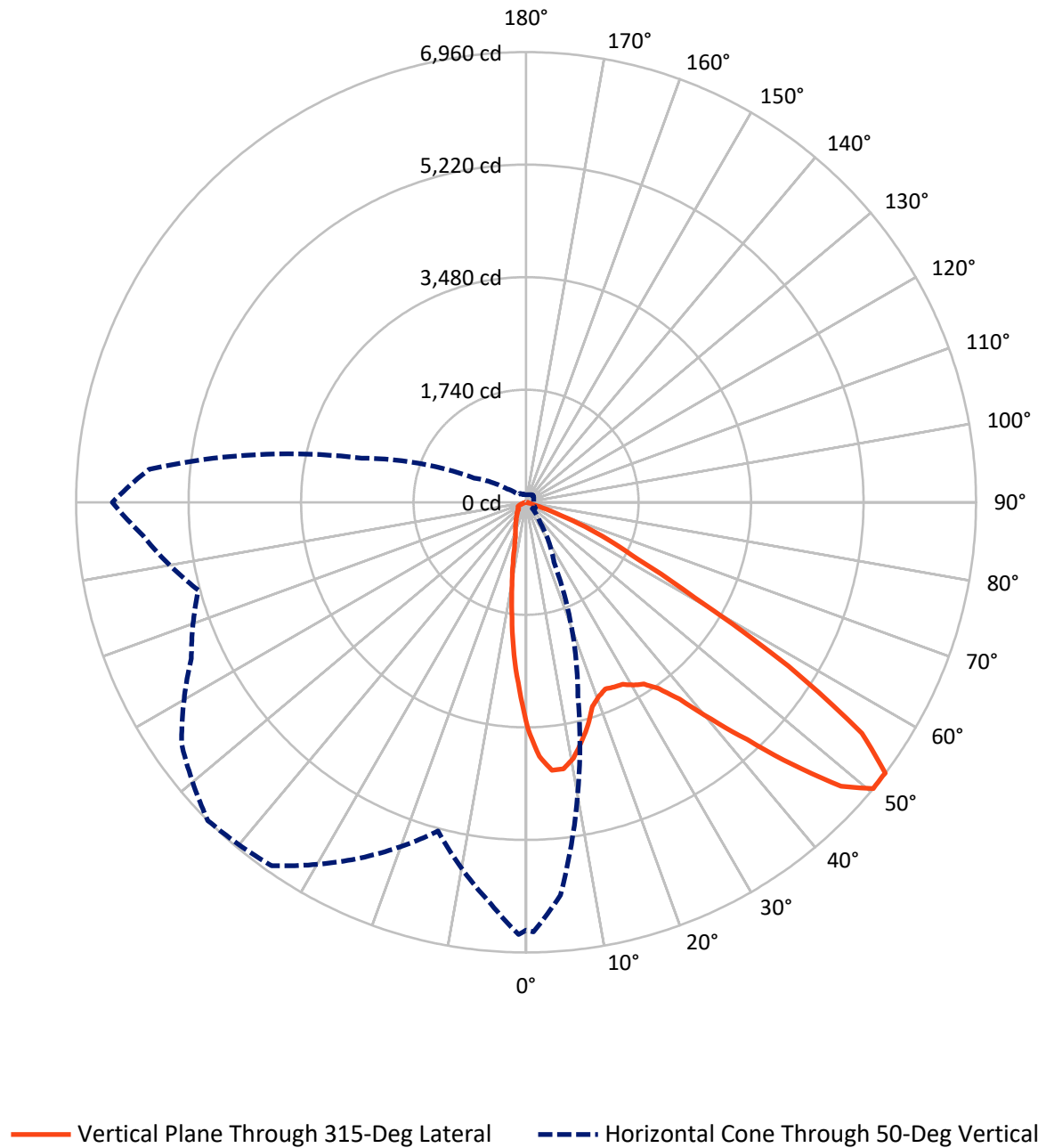
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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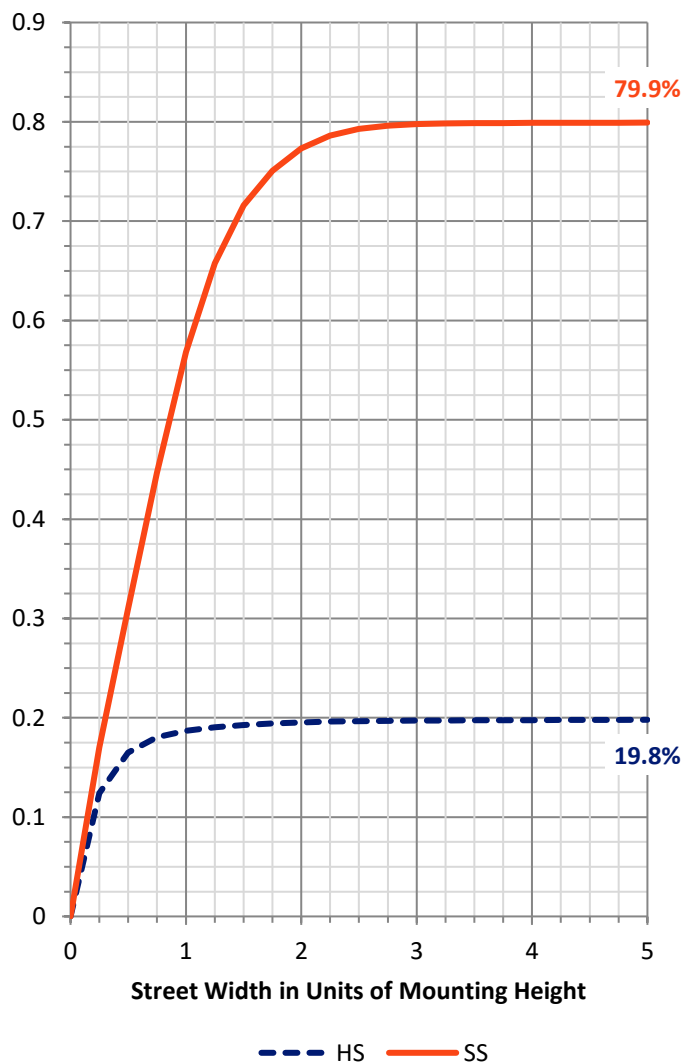
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.9	0.0	1382.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5521.1	0.0	5521.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	6904.0	0.0	6904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	3.7
10°-20°	507.2	7.3
20°-30°	762.0	11.0
30°-40°	1143.7	16.6
40°-50°	1607.4	23.3
50°-60°	1733.8	25.1
60°-70°	805.0	11.7
70°-80°	75.7	1.1
80°-90°	14.0	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°	6904.0	100.0
0°-180°	6904.0	100.0

Coefficient of Utilization



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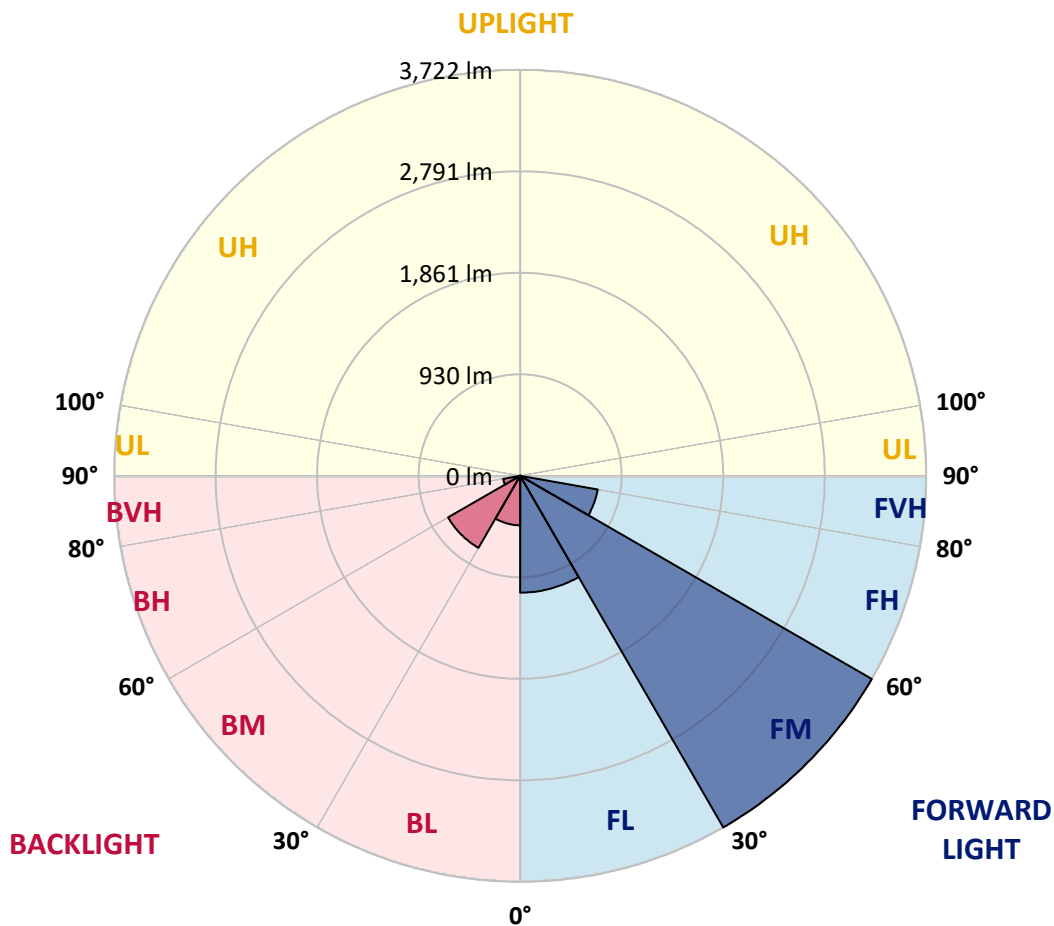
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.1	15.5			
FM (30°-60°)	3721.8	53.9			
FH (60°-80°)	722.0	10.5			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	453.3	6.6	B1/500		
BM (30°-60°)	763.1	11.1	B1/1000		
BH (60°-80°)	158.8	2.3	B1/500		G1/500
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2
2.5°	3639.5	3583.4	3512.2	3453.3	3365.6	3188.9	3140.9	3083.4	3035.5	2971.1	2880.7
5°	3309.4	3291.6	3258.7	3036.8	2876.6	2662.9	2487.5	2413.6	2316.3	2236.9	2179.3
7.5°	3057.4	2986.2	2882.1	2658.8	2402.6	2173.9	1979.4	1865.7	1736.9	1693.1	1615.0
10°	2787.5	2804.0	2650.6	2336.9	2027.3	1842.4	1721.8	1612.2	1495.8	1419.1	1308.2
12.5°	2701.2	2647.8	2530.0	2142.4	1878.0	1705.4	1558.8	1423.2	1299.9	1176.7	1069.8
15°	2757.4	2675.2	2510.8	2101.3	1762.9	1547.9	1364.3	1180.8	1067.1	909.5	798.6
17.5°	2958.8	2893.0	2672.5	2145.1	1704.0	1397.2	1124.6	935.6	761.6	619.1	563.0
20°	3294.4	3201.2	2924.5	2201.3	1616.4	1215.0	912.3	679.4	515.0	454.8	423.3
22.5°	3623.1	3572.4	3223.1	2309.5	1538.3	1053.4	684.9	457.5	384.9	374.0	353.4
25°	4249.1	4097.1	3679.3	2505.4	1478.0	901.3	516.4	368.5	326.0	317.8	320.5
27.5°	4621.7	4494.3	4101.2	2635.5	1410.9	784.9	437.0	338.3	309.6	291.8	284.9
30°	4979.2	4831.3	4310.7	2712.2	1267.1	661.6	387.7	324.6	317.8	291.8	283.5
32.5°	5254.5	5109.3	4613.5	2827.3	1208.2	582.2	319.2	253.4	235.6	232.9	257.5
35°	5676.4	5521.6	4872.4	2890.3	1163.0	541.1	276.7	226.0	205.5	197.3	198.6
37.5°	6069.6	5964.1	5112.1	2914.9	1115.0	528.7	247.9	202.7	184.9	179.4	178.1
40°	6398.3	6162.7	5339.5	2941.0	1094.5	505.5	230.1	184.9	172.6	164.4	164.4
42.5°	6549.0	6309.3	5594.2	2925.9	1089.0	468.5	230.1	169.9	160.3	152.0	150.7
45°	6516.1	6418.9	5707.9	2919.0	1089.0	431.5	209.6	165.7	152.0	141.1	138.3
47.5°	6601.0	6473.7	5850.4	2947.8	1067.1	405.5	176.7	174.0	143.8	130.1	127.4
50°	6616.1	6640.8	6098.3	3097.1	1019.1	372.6	138.3	171.2	138.3	117.8	115.1
52°	6714.7	6561.3	6173.7	3176.6	968.4	347.9	116.4	146.6	132.9	109.6	106.8
52.5°	6579.1	6679.1	6191.5	3205.3	973.9	331.5	112.3	143.8	130.1	109.6	102.7
55°	6427.1	6523.0	6118.9	3267.0	893.1	260.3	87.7	104.1	117.8	95.9	91.8
57.5°	5586.0	5683.3	5317.5	2991.6	727.4	183.6	72.6	78.1	104.1	89.0	84.9
60°	4965.5	4895.7	4462.8	2495.8	516.4	102.7	57.5	60.3	113.7	82.2	80.8
62.5°	4538.1	4388.8	3730.0	1927.3	315.1	68.5	45.2	46.6	87.7	76.7	76.7
65°	3357.4	3190.3	2478.0	1165.7	154.8	47.9	34.2	37.0	54.8	65.8	65.8
67.5°	1916.3	1852.0	1197.2	526.0	64.4	30.1	26.0	28.8	42.5	53.4	50.7
70°	880.8	790.4	460.3	111.0	30.1	20.5	20.5	23.3	34.2	39.7	37.0
72.5°	257.5	243.8	112.3	17.8	12.3	12.3	13.7	17.8	26.0	30.1	27.4
75°	19.2	12.3	8.2	5.5	5.5	8.2	11.0	17.8	26.0	28.8	23.3
77.5°	1.4	2.7	1.4	1.4	4.1	8.2	12.3	21.9	34.2	35.6	26.0
80°	1.4	1.4	0.0	1.4	4.1	8.2	13.7	24.7	38.4	41.1	21.9
82.5°	0.0	0.0	0.0	1.4	5.5	11.0	16.4	26.0	35.6	43.8	23.3
85°	0.0	0.0	0.0	1.4	8.2	15.1	19.2	6.8	4.1	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°	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2
2.5°	2945.1	2909.4	2895.7	2908.1	2904.0	2899.9	2975.2	2958.8	2956.0	2980.7	2975.2
5°	2210.9	2147.8	2320.4	2250.6	2323.2	2367.0	2375.2	2379.3	2430.0	2376.6	2446.5
7.5°	1575.3	1591.7	1590.3	1636.9	1720.5	1794.4	1838.3	1804.0	1801.3	1794.4	1764.3
10°	1258.8	1230.1	1224.6	1213.6	1239.7	1302.7	1356.1	1313.6	1283.5	1324.6	1312.3
12.5°	1028.7	989.0	967.1	923.2	924.6	967.1	967.1	967.1	997.2	1020.5	1038.3
15°	789.0	756.1	756.1	712.3	702.7	704.1	726.0	728.7	776.7	790.4	797.2
17.5°	552.0	534.2	554.8	572.6	561.6	564.4	572.6	575.3	582.2	576.7	590.4
20°	424.6	421.9	427.4	458.9	482.2	495.9	486.3	472.6	464.4	445.2	445.2
22.5°	360.3	365.7	375.3	401.4	431.5	439.7	428.7	397.2	372.6	369.8	371.2
25°	320.5	326.0	341.1	357.5	374.0	387.7	376.7	353.4	339.7	327.4	327.4
27.5°	295.9	298.6	306.8	319.2	332.9	343.8	339.7	327.4	312.3	306.8	294.5
30°	276.7	280.8	290.4	293.1	305.5	310.9	304.1	301.4	291.8	284.9	280.8
32.5°	267.1	265.7	272.6	275.3	276.7	280.8	272.6	276.7	275.3	264.4	260.3
35°	201.4	212.3	230.1	245.2	249.3	254.8	253.4	247.9	232.9	220.5	205.5
37.5°	180.8	187.7	197.3	209.6	226.0	232.9	230.1	216.4	198.6	190.4	187.7
40°	167.1	171.2	179.4	187.7	204.1	216.4	206.8	194.5	180.8	174.0	169.9
42.5°	154.8	156.2	160.3	168.5	180.8	200.0	183.6	167.1	161.6	157.5	154.8
45°	141.1	141.1	146.6	150.7	164.4	182.2	165.7	150.7	147.9	145.2	143.8
47.5°	130.1	131.5	134.2	139.7	150.7	163.0	152.0	139.7	132.9	131.5	128.8
50°	116.4	117.8	123.3	128.8	142.5	149.3	142.5	128.8	121.9	117.8	117.8
52°	105.5	109.6	115.1	126.0	135.6	146.6	138.3	123.3	115.1	111.0	108.2
52.5°	104.1	106.8	112.3	124.7	135.6	145.2	137.0	121.9	112.3	109.6	106.8
55°	93.1	97.3	106.8	121.9	134.2	145.2	134.2	120.5	106.8	100.0	97.3
57.5°	89.0	91.8	104.1	123.3	132.9	145.2	134.2	120.5	106.8	94.5	91.8
60°	84.9	90.4	104.1	119.2	131.5	146.6	135.6	119.2	104.1	89.0	89.0
62.5°	80.8	84.9	102.7	116.4	126.0	141.1	130.1	116.4	100.0	84.9	83.6
65°	69.9	76.7	90.4	97.3	108.2	121.9	111.0	101.4	87.7	75.3	74.0
67.5°	53.4	56.2	67.1	75.3	82.2	94.5	89.0	76.7	67.1	57.5	57.5
70°	37.0	39.7	47.9	52.1	58.9	65.8	61.6	52.1	45.2	39.7	38.4
72.5°	26.0	27.4	30.1	32.9	35.6	38.4	37.0	30.1	26.0	24.7	23.3
75°	20.5	23.3	24.7	23.3	21.9	20.5	20.5	17.8	15.1	13.7	13.7
77.5°	20.5	21.9	20.5	17.8	15.1	13.7	12.3	11.0	8.2	6.8	8.2
80°	17.8	17.8	17.8	15.1	13.7	12.3	11.0	9.6	8.2	6.8	6.8
82.5°	19.2	19.2	17.8	15.1	15.1	12.3	12.3	11.0	9.6	6.8	6.8
85°	0.0	0.0	0.0	2.7	6.8	12.3	12.3	11.0	9.6	8.2	8.2
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.5	6.8	8.2	8.2	8.2
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°	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2
2.5°	3024.5	3076.6	3175.2	3273.8	3334.1	3405.3	3534.1	3602.6	3691.6	3735.4	3821.7
5°	2436.9	2560.1	2604.0	2716.3	2836.8	2957.4	3149.2	3360.1	3535.4	3656.0	3812.1
7.5°	1778.0	1806.8	1976.6	2052.0	2249.2	2468.4	2730.0	2995.7	3217.7	3414.9	3534.1
10°	1332.8	1438.3	1545.1	1689.0	1847.9	2073.9	2324.5	2617.7	2905.3	3102.6	3253.3
12.5°	1071.2	1154.7	1297.2	1452.0	1647.9	1797.2	2049.2	2339.6	2712.2	2905.3	3104.0
15°	810.9	917.8	1079.4	1239.7	1446.5	1604.0	1858.8	2224.5	2704.0	2969.7	3140.9
17.5°	601.3	673.9	819.1	998.6	1209.5	1431.4	1775.3	2212.2	2795.8	3112.2	3288.9
20°	460.3	484.9	576.7	737.0	965.7	1256.1	1639.6	2265.6	3067.0	3458.7	3638.2
22.5°	372.6	383.5	419.2	530.1	752.0	1102.7	1575.3	2302.6	3372.4	3873.8	4113.5
25°	324.6	321.9	345.2	393.1	587.6	958.9	1493.1	2442.3	3746.4	4361.4	4576.5
27.5°	295.9	295.9	306.8	341.1	487.6	865.7	1441.0	2542.3	4123.1	4790.2	4906.6
30°	280.8	283.5	315.1	326.0	405.5	754.8	1354.7	2643.7	4483.3	5064.1	5224.4
32.5°	260.3	249.3	242.5	269.8	341.1	654.8	1268.4	2686.2	4775.1	5399.7	5536.7
35°	200.0	194.5	202.7	223.3	293.1	569.8	1172.5	2734.1	5110.7	5788.8	5816.2
37.5°	180.8	179.4	184.9	202.7	246.6	495.9	1104.1	2721.8	5366.9	6110.7	6036.7
40°	167.1	167.1	171.2	186.3	220.5	443.8	1032.8	2710.8	5614.8	6472.3	6255.9
42.5°	156.2	156.2	163.0	172.6	209.6	409.6	979.4	2695.8	5823.0	6694.2	6384.6
45°	141.1	145.2	156.2	165.7	212.3	386.3	939.7	2638.2	5894.2	6691.5	6323.0
47.5°	130.1	135.6	146.6	160.3	191.8	379.4	912.3	2587.5	5869.6	6527.1	6129.8
50°	117.8	124.7	139.7	163.0	163.0	365.7	883.5	2632.7	5851.8	6399.7	5944.9
52°	109.6	115.1	134.2	158.9	142.5	337.0	865.7	2720.4	5924.4	6383.2	5862.7
52.5°	108.2	112.3	130.1	156.2	135.6	331.5	853.4	2741.0	5947.7	6342.2	5918.9
55°	95.9	101.4	119.2	121.9	111.0	272.6	813.7	2787.5	5832.6	6261.3	5865.5
57.5°	90.4	93.1	105.5	100.0	95.9	205.5	700.0	2714.9	5180.6	5561.4	5457.3
60°	83.6	86.3	98.6	78.1	80.8	143.8	526.0	2357.4	4160.1	4634.0	4821.7
62.5°	80.8	79.4	93.1	63.0	68.5	104.1	371.2	1916.3	3205.3	3814.9	4139.5
65°	71.2	69.9	67.1	53.4	58.9	80.8	221.9	1250.6	2258.8	2886.2	3064.2
67.5°	54.8	57.5	49.3	42.5	49.3	63.0	123.3	560.2	1184.9	1731.4	1875.3
70°	38.4	41.1	39.7	37.0	43.8	52.1	71.2	191.8	490.4	909.5	1002.7
72.5°	23.3	28.8	30.1	31.5	38.4	45.2	50.7	61.6	130.1	321.9	400.0
75°	13.7	19.2	23.3	27.4	31.5	38.4	42.5	43.8	45.2	60.3	97.3
77.5°	9.6	13.7	20.5	26.0	31.5	38.4	45.2	47.9	45.2	42.5	45.2
80°	8.2	13.7	19.2	24.7	32.9	39.7	45.2	45.2	43.8	38.4	41.1
82.5°	8.2	13.7	20.5	26.0	31.5	38.4	43.8	45.2	41.1	38.4	39.7
85°	9.6	15.1	21.9	27.4	34.2	31.5	28.8	23.3	21.9	17.8	19.2
87.5°	9.6	13.7	13.7	15.1	16.4	16.4	16.4	15.1	12.3	11.0	11.0
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°	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2
2.5°	3825.8	3935.4	3931.3	3934.1	3917.6	3806.7	3753.2	3617.6	3656.0	3639.5
5°	3972.4	4080.6	4173.8	4162.8	4036.8	3886.1	3662.8	3451.9	3394.4	3309.4
7.5°	3825.8	4086.1	4172.4	4160.1	3973.8	3780.6	3424.5	3213.5	3113.5	3057.4
10°	3593.0	3894.3	4001.2	4023.1	3897.1	3603.9	3276.6	2938.2	2884.8	2787.5
12.5°	3460.1	3679.3	3745.0	3803.9	3760.1	3540.9	3164.2	2839.6	2765.6	2701.2
15°	3351.9	3482.0	3509.4	3576.5	3602.6	3484.8	3223.1	2946.4	2764.2	2757.4
17.5°	3451.9	3398.5	3298.5	3319.0	3401.2	3486.1	3375.2	3157.4	2980.7	2958.8
20°	3617.6	3382.0	3156.0	3206.7	3275.2	3535.4	3605.3	3451.9	3350.5	3294.4
22.5°	3808.0	3410.8	3110.8	3135.5	3265.6	3646.4	3977.9	3893.0	3703.9	3623.1
25°	4160.1	3490.2	3146.4	3162.9	3340.9	3801.2	4314.9	4377.9	4265.5	4249.1
27.5°	4503.9	3695.7	3224.5	3187.5	3379.3	3951.9	4519.0	4857.3	4660.0	4621.7
30°	4679.2	3862.8	3340.9	3277.9	3538.2	4043.6	4642.2	5169.6	4997.0	4979.2
32.5°	4947.7	4014.9	3431.3	3350.5	3627.2	4157.3	4872.4	5510.7	5343.6	5254.5
35°	5060.0	4180.6	3630.0	3535.4	3882.0	4316.2	4990.2	5814.8	5762.7	5676.4
37.5°	5276.5	4358.7	3864.2	3858.7	4190.2	4523.1	5202.5	6228.5	6218.9	6069.6
40°	5294.3	4553.2	4234.0	4406.6	4666.9	4883.3	5388.8	6343.5	6499.7	6398.3
42.5°	5321.7	4894.3	4873.7	5016.2	5239.5	5192.9	5395.6	6370.9	6609.3	6549.0
45°	5334.0	5235.4	5524.4	5787.4	5880.5	5598.4	5331.2	6318.9	6666.8	6516.1
47.5°	5235.4	5528.5	6050.4	6558.6	6586.0	5847.7	5303.8	6265.4	6701.0	6601.0
50°	5249.1	5712.0	6505.2	6959.9	6859.9	6068.2	5261.4	6232.6	6683.2	6616.1
52°	5216.2	5716.2	6569.5	6951.7	6881.9	5946.3	5188.8	6106.6	6666.8	6714.7
52.5°	5253.2	5691.5	6502.4	6957.2	6866.8	6006.6	5179.2	6176.4	6676.4	6579.1
55°	5125.8	5398.4	6109.3	6302.4	6288.7	5451.8	4884.7	5944.9	6425.7	6427.1
57.5°	4632.6	4679.2	4791.5	4787.4	4724.4	4286.1	4177.9	5466.9	5728.5	5586.0
60°	4082.0	3425.9	3123.1	2999.9	2930.0	2858.8	3695.7	5001.1	5025.8	4965.5
62.5°	3527.2	2375.2	1972.5	1938.3	1954.7	2215.0	3572.4	4816.2	4668.3	4538.1
65°	2846.4	1731.4	1432.8	1387.6	1547.9	1828.7	2891.6	3693.0	3465.6	3357.4
67.5°	1787.6	1263.0	968.4	883.5	1076.7	1258.8	1899.9	2320.4	2065.7	1916.3
70°	1060.2	705.4	438.3	393.1	442.4	671.2	1064.3	1157.5	957.5	880.8
72.5°	417.8	258.9	121.9	104.1	108.2	235.6	391.8	382.2	289.0	257.5
75°	112.3	78.1	42.5	34.2	28.8	43.8	63.0	41.1	15.1	19.2
77.5°	52.1	46.6	37.0	28.8	21.9	16.4	8.2	2.7	2.7	1.4
80°	45.2	39.7	34.2	28.8	21.9	13.7	6.8	1.4	1.4	1.4
82.5°	42.5	37.0	31.5	26.0	20.5	13.7	6.8	1.4	0.0	0.0
85°	17.8	23.3	26.0	24.7	21.9	13.7	6.8	1.4	0.0	0.0
87.5°	9.6	8.2	6.8	5.5	4.1	2.7	2.7	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)