

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: P651789

Luminaire Tested: **GALN-SA3A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

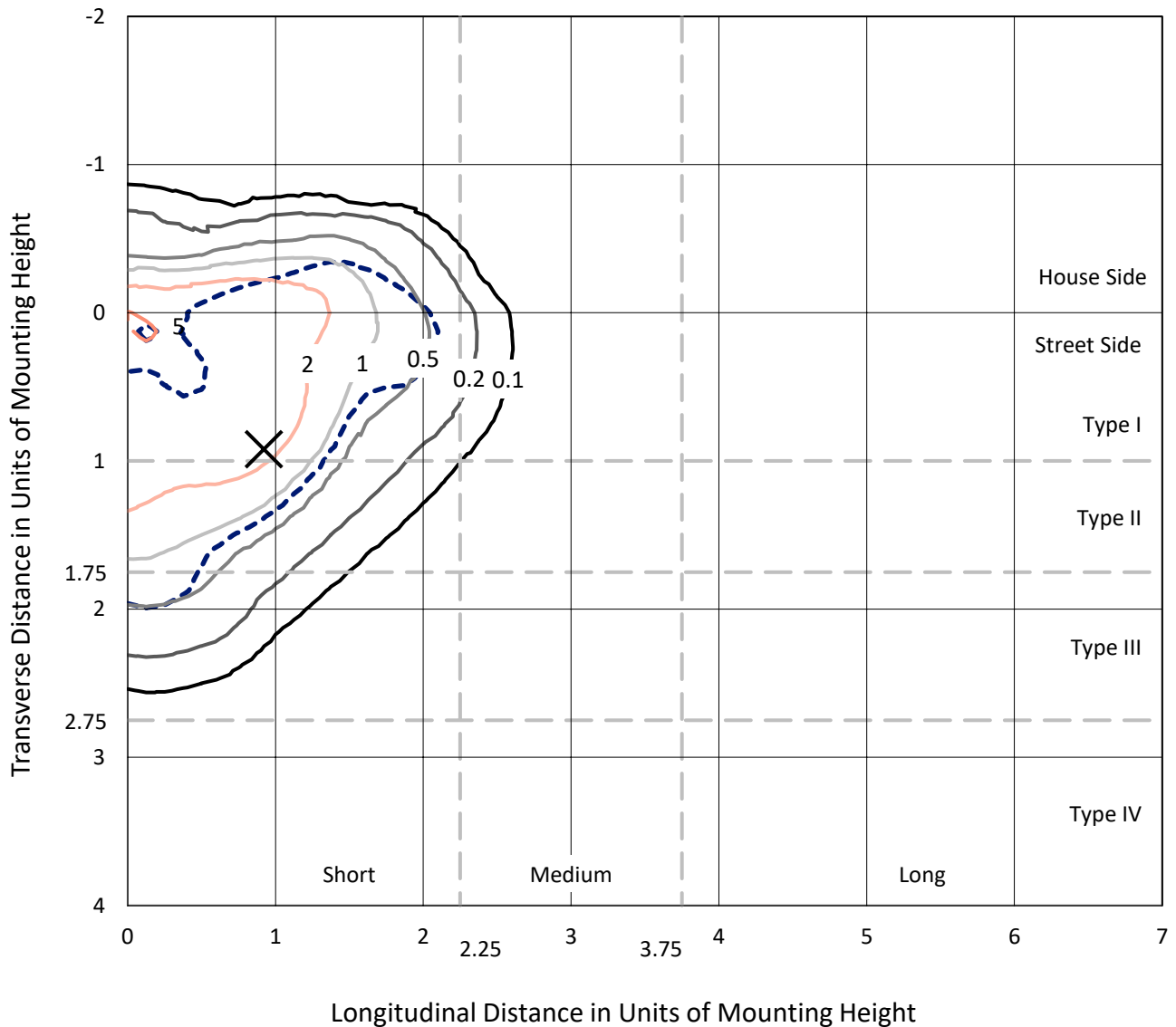
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

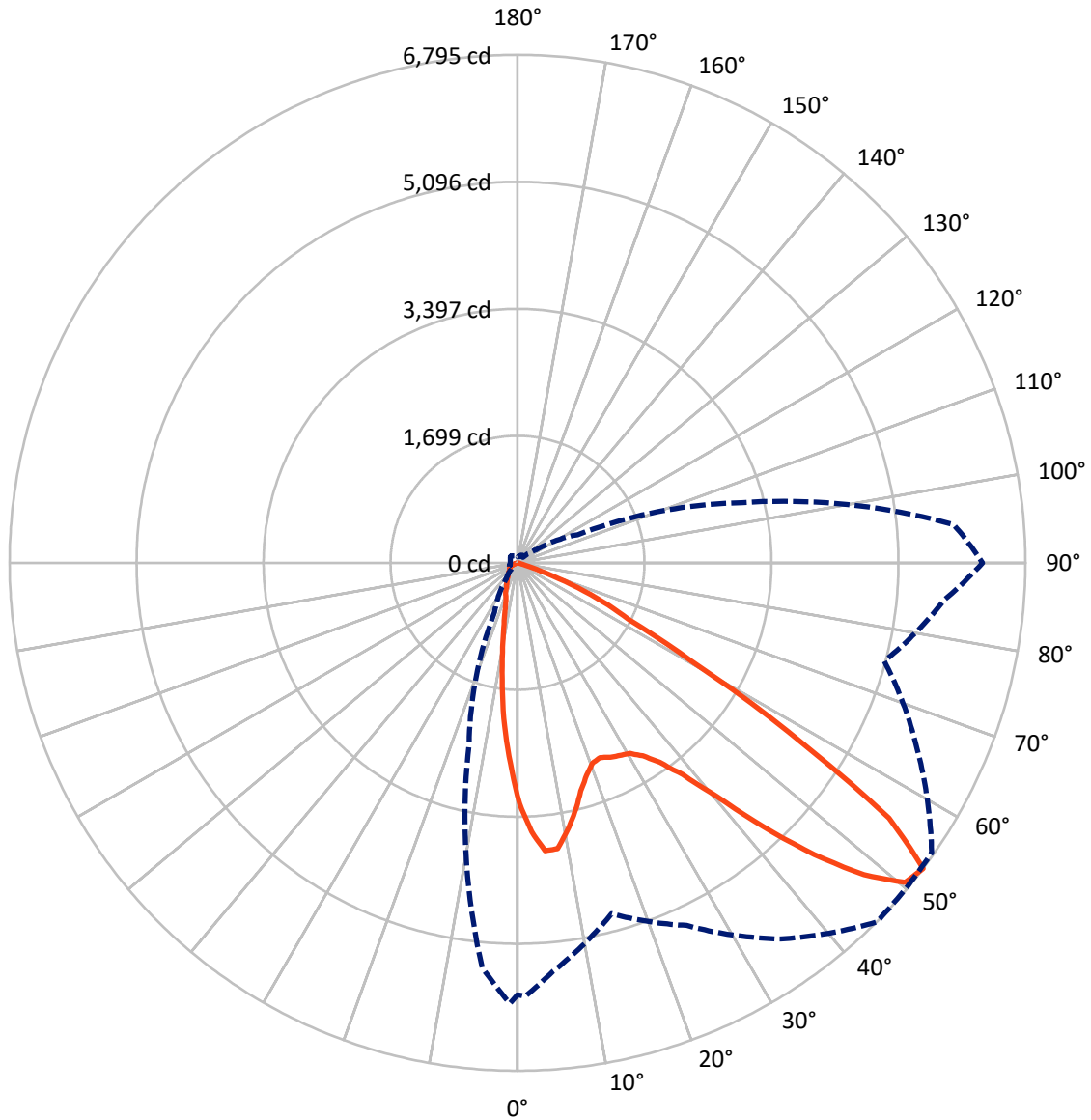
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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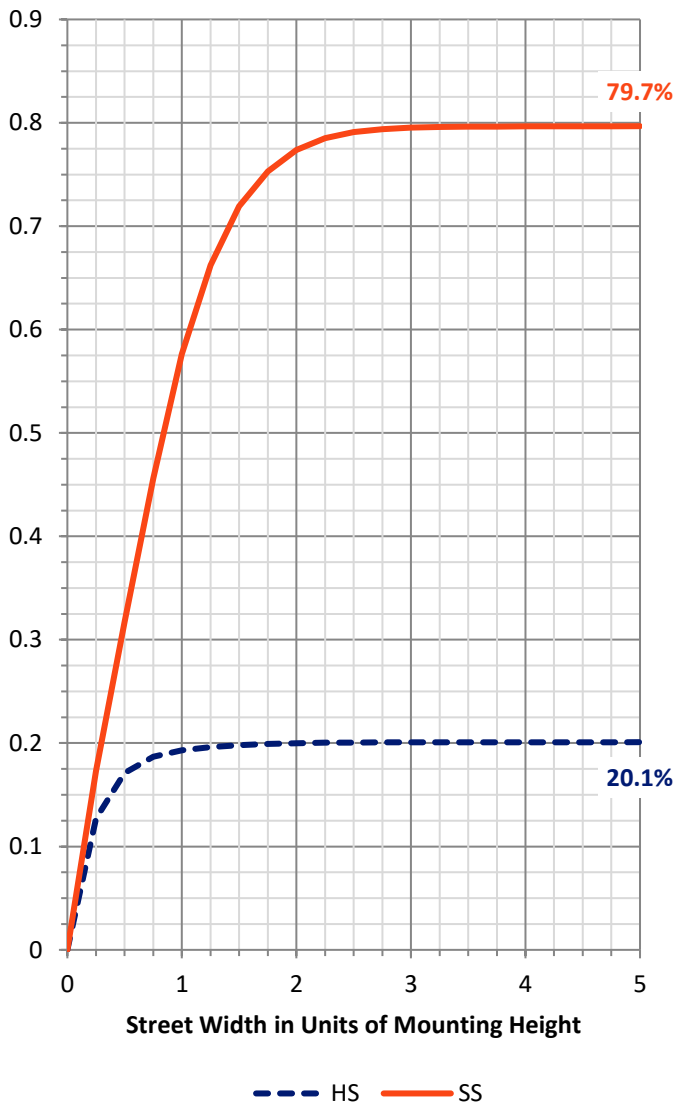
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1288.1	0.0	1288.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5058.9	0.0	5058.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	6347.0	0.0	6347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	3.7
10°-20°	463.1	7.3
20°-30°	704.7	11.1
30°-40°	1053.3	16.6
40°-50°	1499.9	23.6
50°-60°	1612.4	25.4
60°-70°	714.5	11.3
70°-80°	57.8	0.9
80°-90°	6.7	0.1
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°	6347.0	100.0
0°-180°	6347.0	100.0



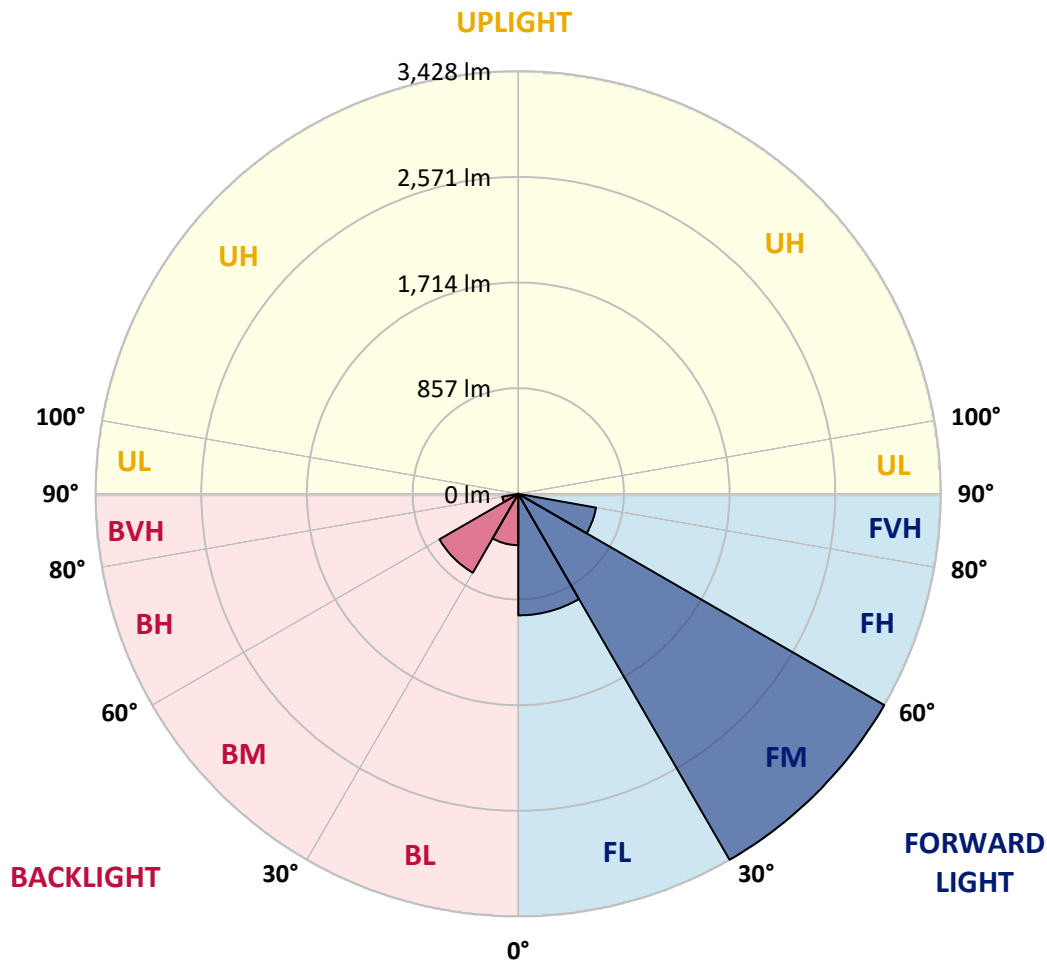
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.8	15.5			
FM (30°-60°)	3427.6	54.0			
FH (60°-80°)	640.5	10.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	416.6	6.6	B1/500		
BM (30°-60°)	738.0	11.6	B1/1000		
BH (60°-80°)	131.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			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°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	3405.5	3415.5	3470.4	3539.1	3575.3	3657.7	3600.2	3615.2	3584.0	3474.2	3388.1
5°	3301.9	3300.6	3370.6	3540.3	3701.3	3864.9	3869.9	3782.5	3628.9	3460.4	3219.5
7.5°	2989.8	3038.4	3110.9	3381.7	3680.1	3802.5	3861.1	3758.8	3522.9	3281.9	3021.0
10°	2753.9	2778.8	2901.2	3228.3	3446.7	3610.2	3646.4	3587.8	3406.7	3105.9	2813.7
12.5°	2617.8	2630.2	2773.8	3048.5	3279.4	3400.5	3418.0	3445.4	3315.6	3033.5	2682.7
15°	2619.0	2629.1	2822.5	3052.2	3143.3	3110.9	3168.3	3167.0	3223.2	3019.8	2792.5
17.5°	2807.5	2818.8	2993.5	3107.2	3067.2	2991.0	2987.3	3044.8	3163.3	3190.8	2958.6
20°	3132.1	3158.3	3286.9	3280.7	3055.9	2902.4	2860.0	2903.6	3179.6	3335.6	3293.1
22.5°	3569.0	3605.2	3695.1	3522.9	3107.2	2842.5	2828.8	2913.6	3286.9	3658.9	3672.6
25°	4075.8	4137.0	4180.7	3959.8	3289.4	2946.1	2881.2	3027.3	3431.7	4009.7	4155.7
27.5°	4411.6	4475.3	4465.4	4149.5	3411.8	2973.5	2918.6	3054.7	3557.8	4093.3	4407.9
30°	4673.8	4712.5	4782.4	4251.8	3534.1	3051.0	2957.3	3170.8	3599.0	4238.1	4712.5
32.5°	4979.6	5005.9	5010.8	4432.9	3722.6	3148.4	3077.1	3315.6	3781.2	4376.7	4982.2
35°	5288.0	5326.7	5245.6	4656.4	3838.7	3329.4	3276.9	3566.5	3927.3	4520.3	5279.3
37.5°	5622.6	5642.5	5455.3	4748.7	4004.7	3624.0	3595.3	3837.4	4180.7	4779.9	5608.8
40°	5903.4	5922.2	5678.8	4862.3	4179.4	4035.9	4109.5	4354.2	4525.3	4948.4	5773.6
42.5°	6059.5	6103.1	5753.6	4799.9	4530.2	4502.8	4829.9	4916.0	4924.7	4995.9	5920.9
45°	6102.0	6081.9	5630.1	4851.1	4837.3	5270.5	5567.6	5681.2	5321.7	5083.3	5958.3
47.5°	5905.9	5932.2	5447.7	4806.1	5240.5	5852.3	6236.8	6447.7	5617.5	5007.1	5866.0
50°	5747.4	5713.7	5389.1	4773.7	5349.2	6126.9	6719.8	6767.3	5889.7	5100.7	5764.9
52.5°	5778.6	5799.8	5482.7	4859.8	5351.7	6143.1	6794.8	6762.3	5898.4	5079.6	5728.6
55°	5844.8	5751.1	5442.8	4670.1	4993.4	5690.0	6030.7	5980.9	5444.0	4853.6	5640.0
57.5°	5043.3	5188.1	5004.6	4169.5	4098.4	4286.8	4280.6	4434.1	4060.9	4177.0	5134.5
60°	4093.3	4118.3	4186.9	3566.5	2836.3	2771.3	2681.4	2584.1	2732.7	3571.6	4670.1
62.5°	3600.2	3570.3	3814.9	3244.5	2002.3	1676.5	1661.6	1721.4	2108.5	3406.7	4380.4
65°	2616.5	2653.9	2831.2	2518.0	1503.0	1279.6	1257.1	1434.3	1706.5	2730.1	3343.1
67.5°	1597.9	1670.3	1686.5	1552.9	1019.9	810.1	777.8	938.7	1232.1	1766.4	1959.9
70°	737.8	825.2	907.5	847.6	590.5	333.3	314.6	394.5	621.7	1016.2	1039.9
72.5°	223.5	224.7	314.6	328.3	191.0	74.9	66.2	87.4	211.0	335.8	353.3
75°	16.2	17.5	42.5	48.7	36.2	18.8	19.9	23.7	44.9	74.9	56.2
77.5°	1.3	1.3	1.3	6.2	11.3	12.4	16.2	18.8	23.7	27.5	25.0
80°	1.3	0.0	1.3	5.0	8.7	12.4	15.0	17.5	18.8	21.2	18.8
82.5°	0.0	0.0	0.0	3.8	8.7	12.4	13.7	18.8	21.2	25.0	21.2
85°	0.0	0.0	0.0	3.8	8.7	13.7	12.4	6.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	3403.0	3354.3	3243.2	3187.1	3054.7	3036.0	2906.2	2885.0	2841.2	2817.5	2760.1
5°	3113.4	3054.7	2873.7	2721.4	2544.1	2420.6	2325.7	2239.5	2189.6	2143.4	2164.6
7.5°	2877.4	2706.4	2505.4	2250.8	2046.1	1913.7	1768.9	1650.3	1580.4	1533.0	1544.2
10°	2630.2	2519.1	2239.5	1953.6	1706.5	1612.9	1499.3	1408.2	1309.5	1224.7	1184.7
12.5°	2552.9	2388.1	2037.3	1746.4	1559.2	1468.0	1338.2	1233.3	1107.3	1003.6	967.5
15°	2566.6	2408.0	1982.4	1671.6	1450.6	1293.3	1138.5	1008.7	870.1	797.7	760.3
17.5°	2790.0	2515.4	2018.6	1592.9	1299.5	1081.1	890.0	725.3	621.7	546.7	530.6
20°	3064.7	2747.6	2095.9	1535.5	1176.0	860.1	650.4	508.0	421.9	409.5	405.7
22.5°	3466.7	3127.1	2262.0	1496.7	1024.9	670.4	445.6	369.5	345.8	343.3	344.6
25°	4028.4	3602.8	2443.0	1464.3	911.3	516.8	364.5	313.4	305.9	302.1	308.3
27.5°	4271.9	3889.9	2539.1	1394.4	807.7	465.7	359.5	310.8	289.6	283.3	287.1
30°	4572.7	4080.9	2690.2	1274.5	655.4	383.2	335.8	338.3	328.3	297.1	287.1
32.5°	4972.2	4319.3	2766.3	1189.7	585.5	317.1	245.9	226.0	252.1	257.2	265.9
35°	5228.1	4561.5	2805.1	1139.7	549.3	270.9	208.5	189.7	183.5	184.8	189.7
37.5°	5703.7	4888.6	2853.7	1087.3	521.8	235.9	188.5	171.1	162.3	162.3	167.3
40°	5988.3	5148.2	2919.9	1058.6	494.3	214.7	171.1	156.0	148.5	148.5	151.0
42.5°	6059.5	5276.8	2897.4	1048.6	463.1	209.7	156.0	144.8	136.1	134.8	133.6
45°	6186.8	5472.7	2901.2	1037.4	430.7	191.0	147.3	134.8	122.4	121.1	119.8
47.5°	6326.6	5613.8	2908.7	993.7	399.5	159.8	153.6	124.8	109.8	107.4	107.4
50°	6206.7	5726.2	2973.5	950.0	359.5	129.9	151.0	117.3	97.4	93.6	94.9
52.5°	6221.7	5858.5	3110.9	888.9	309.6	103.6	122.4	111.1	88.6	82.4	83.7
55°	5982.1	5718.7	3129.6	823.9	242.2	79.9	93.6	97.4	74.9	72.4	72.4
57.5°	5149.4	4842.3	2761.3	667.8	159.8	66.2	67.4	84.9	64.9	62.4	63.7
60°	4406.7	3887.4	2222.1	440.7	99.8	52.4	48.7	86.1	57.4	56.2	59.9
62.5°	4017.2	3194.5	1685.3	273.4	68.6	39.9	33.7	69.9	50.0	50.0	54.9
65°	2902.4	2145.9	979.9	143.6	48.7	31.2	25.0	39.9	41.2	42.5	44.9
67.5°	1797.6	1083.5	413.2	69.9	32.5	21.2	16.2	25.0	27.5	27.5	29.9
70°	887.6	431.9	137.3	39.9	25.0	17.5	11.3	13.7	13.7	12.4	13.7
72.5°	274.7	129.9	35.0	25.0	17.5	11.3	6.2	5.0	2.5	0.0	1.3
75°	31.2	25.0	22.5	17.5	11.3	5.0	1.3	0.0	0.0	0.0	0.0
77.5°	18.8	21.2	21.2	17.5	11.3	3.8	0.0	0.0	0.0	0.0	0.0
80°	15.0	16.2	17.5	16.2	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	21.2	23.7	21.2	13.7	6.2	2.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.8	1.3	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°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	2736.4	2708.9	2747.6	2690.2	2688.9	2690.2	2674.0	2659.0	2682.7	2746.4	2752.6
5°	2088.5	2147.2	2165.9	2227.1	2193.3	2143.4	2153.4	2119.7	2202.1	2238.3	2209.6
7.5°	1520.5	1516.7	1642.8	1650.3	1666.5	1667.8	1665.3	1599.2	1531.7	1546.7	1591.7
10°	1179.7	1116.0	1177.2	1170.9	1210.9	1199.7	1215.9	1144.8	1168.5	1168.5	1197.2
12.5°	961.3	893.8	882.5	866.3	882.5	888.9	895.1	881.4	921.3	940.0	960.0
15°	734.0	696.6	686.6	655.4	660.4	677.8	692.8	699.0	686.6	715.3	717.8
17.5°	533.0	531.8	538.1	536.8	531.8	528.1	526.8	510.6	505.6	508.0	518.1
20°	404.4	414.4	435.6	456.9	468.1	454.4	435.6	408.2	397.0	399.5	400.7
22.5°	345.8	360.8	389.5	413.2	424.5	399.5	365.8	342.0	337.1	335.8	334.5
25°	313.4	330.8	352.0	359.5	358.3	343.3	318.3	308.3	305.9	303.3	292.1
27.5°	295.9	302.1	305.9	314.6	318.3	308.3	302.1	287.1	284.6	284.6	277.1
30°	285.9	282.2	287.1	280.9	285.9	278.4	279.6	279.6	273.4	275.8	275.8
32.5°	265.9	267.2	267.2	254.7	258.4	249.7	258.4	265.9	267.2	268.4	278.4
35°	194.8	217.2	228.4	228.4	232.2	226.0	224.7	216.0	204.7	193.5	188.5
37.5°	171.1	179.7	194.8	203.5	209.7	204.7	193.5	179.7	173.5	168.5	163.6
40°	152.3	159.8	169.8	179.7	192.3	186.0	168.5	162.3	154.8	154.8	149.8
42.5°	137.3	141.0	147.3	162.3	176.0	163.6	151.0	146.1	142.3	141.0	139.8
45°	123.6	124.8	131.1	143.6	159.8	147.3	134.8	128.6	129.9	131.1	129.9
47.5°	111.1	113.6	117.3	132.3	142.3	136.1	122.4	118.6	118.6	118.6	119.8
50°	96.1	102.3	109.8	122.4	129.9	126.1	114.9	109.8	107.4	107.4	108.6
52.5°	86.1	91.2	101.1	116.1	126.1	119.8	108.6	101.1	96.1	94.9	97.4
55°	74.9	83.7	99.8	111.1	124.8	118.6	106.1	97.4	88.6	87.4	87.4
57.5°	67.4	81.2	96.1	109.8	121.1	116.1	106.1	94.9	83.7	82.4	82.4
60°	63.7	78.6	93.6	106.1	121.1	113.6	104.9	92.3	79.9	79.9	78.6
62.5°	59.9	73.7	88.6	101.1	116.1	109.8	101.1	88.6	76.1	76.1	73.7
65°	50.0	63.7	73.7	84.9	101.1	94.9	86.1	77.4	67.4	64.9	66.2
67.5°	35.0	43.7	53.7	64.9	74.9	72.4	68.6	62.4	53.7	52.4	51.2
70°	17.5	23.7	32.5	43.7	52.4	50.0	47.4	42.5	37.4	36.2	36.2
72.5°	2.5	7.5	13.7	19.9	27.5	28.7	27.5	26.2	25.0	23.7	25.0
75°	0.0	0.0	0.0	5.0	11.3	13.7	16.2	18.8	18.8	16.2	19.9
77.5°	0.0	0.0	0.0	0.0	1.3	6.2	12.4	16.2	19.9	17.5	23.7
80°	0.0	0.0	0.0	0.0	1.3	7.5	12.4	17.5	19.9	17.5	25.0
82.5°	0.0	0.0	0.0	0.0	1.3	8.7	12.4	16.2	18.8	17.5	22.5
85°	0.0	0.0	0.0	0.0	3.8	7.5	5.0	2.5	1.3	1.3	3.8
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°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	2787.6	2876.2	2971.1	3007.2	3119.6	3204.5	3261.9	3385.5	3404.2	3405.5
5°	2239.5	2284.5	2446.7	2522.9	2690.2	2820.0	2958.6	3158.3	3291.9	3301.9
7.5°	1591.7	1716.5	1785.1	1983.6	2189.6	2393.1	2599.0	2831.2	2986.1	2989.8
10°	1280.8	1361.9	1484.3	1632.8	1806.4	2013.6	2288.2	2557.9	2715.2	2753.9
12.5°	1031.2	1173.4	1313.2	1466.8	1599.2	1755.2	2051.0	2410.6	2540.4	2617.8
15°	794.0	923.8	1088.6	1268.3	1418.1	1626.6	1963.7	2374.4	2592.8	2619.0
17.5°	585.5	701.6	853.9	1023.7	1248.4	1544.2	1978.6	2557.9	2763.9	2807.5
20°	420.7	488.1	608.0	805.2	1091.0	1448.1	1993.6	2743.8	3057.2	3132.1
22.5°	333.3	360.8	439.4	614.2	915.0	1346.9	2099.7	3099.7	3460.4	3569.0
25°	289.6	304.6	342.0	484.3	803.9	1336.9	2269.5	3526.6	3997.2	4075.8
27.5°	279.6	282.2	314.6	444.4	744.0	1270.8	2334.4	3829.9	4331.7	4411.6
30°	294.6	334.5	337.1	375.8	632.9	1139.7	2368.1	4123.3	4615.2	4673.8
32.5°	254.7	242.2	251.0	290.9	556.7	1063.6	2431.8	4379.2	4938.4	4979.6
35°	177.3	186.0	206.0	252.1	486.9	983.7	2448.0	4661.3	5245.6	5288.0
37.5°	163.6	168.5	184.8	214.7	428.2	938.7	2425.5	4867.3	5563.9	5622.6
40°	152.3	158.5	167.3	194.8	384.5	888.9	2394.3	5053.3	5758.7	5903.4
42.5°	143.6	148.5	156.0	186.0	347.1	838.9	2350.6	5315.5	5933.4	6059.5
45°	133.6	141.0	149.8	181.0	325.8	805.2	2318.2	5299.2	6034.5	6102.0
47.5°	123.6	136.1	146.1	168.5	319.6	788.9	2331.9	5238.1	5952.1	5905.9
50°	113.6	129.9	147.3	139.8	304.6	756.5	2348.2	5321.7	5756.1	5747.4
52.5°	104.9	123.6	137.3	114.9	270.9	725.3	2505.4	5431.5	5894.7	5778.6
55°	92.3	111.1	109.8	92.3	219.7	701.6	2629.1	5434.0	5801.0	5844.8
57.5°	83.7	98.6	86.1	77.4	162.3	586.7	2428.1	4556.5	4965.9	5043.3
60°	77.4	96.1	64.9	61.1	106.1	423.2	2119.7	3529.1	3947.2	4093.3
62.5°	71.1	91.2	51.2	50.0	73.7	300.8	1742.7	2953.6	3401.8	3600.2
65°	62.4	64.9	41.2	38.7	52.4	162.3	1061.1	2033.5	2542.8	2616.5
67.5°	51.2	50.0	33.7	31.2	35.0	78.6	468.1	1018.6	1474.3	1597.9
70°	41.2	41.2	28.7	25.0	25.0	36.2	122.4	405.7	666.6	737.8
72.5°	29.9	31.2	22.5	19.9	18.8	17.5	19.9	81.2	174.8	223.5
75°	26.2	27.5	22.5	17.5	13.7	11.3	8.7	7.5	10.0	16.2
77.5°	28.7	28.7	23.7	16.2	12.4	8.7	5.0	2.5	2.5	1.3
80°	36.2	37.4	31.2	21.2	15.0	10.0	6.2	2.5	1.3	1.3
82.5°	38.7	42.5	35.0	26.2	18.8	11.3	6.2	1.3	0.0	0.0
85°	10.0	16.2	27.5	23.7	18.8	11.3	6.2	1.3	0.0	0.0
87.5°	0.0	1.3	3.8	3.8	5.0	5.0	3.8	1.3	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)