

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: P528313

Luminaire Tested: **GALN-SA3B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528313
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-SA3B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 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

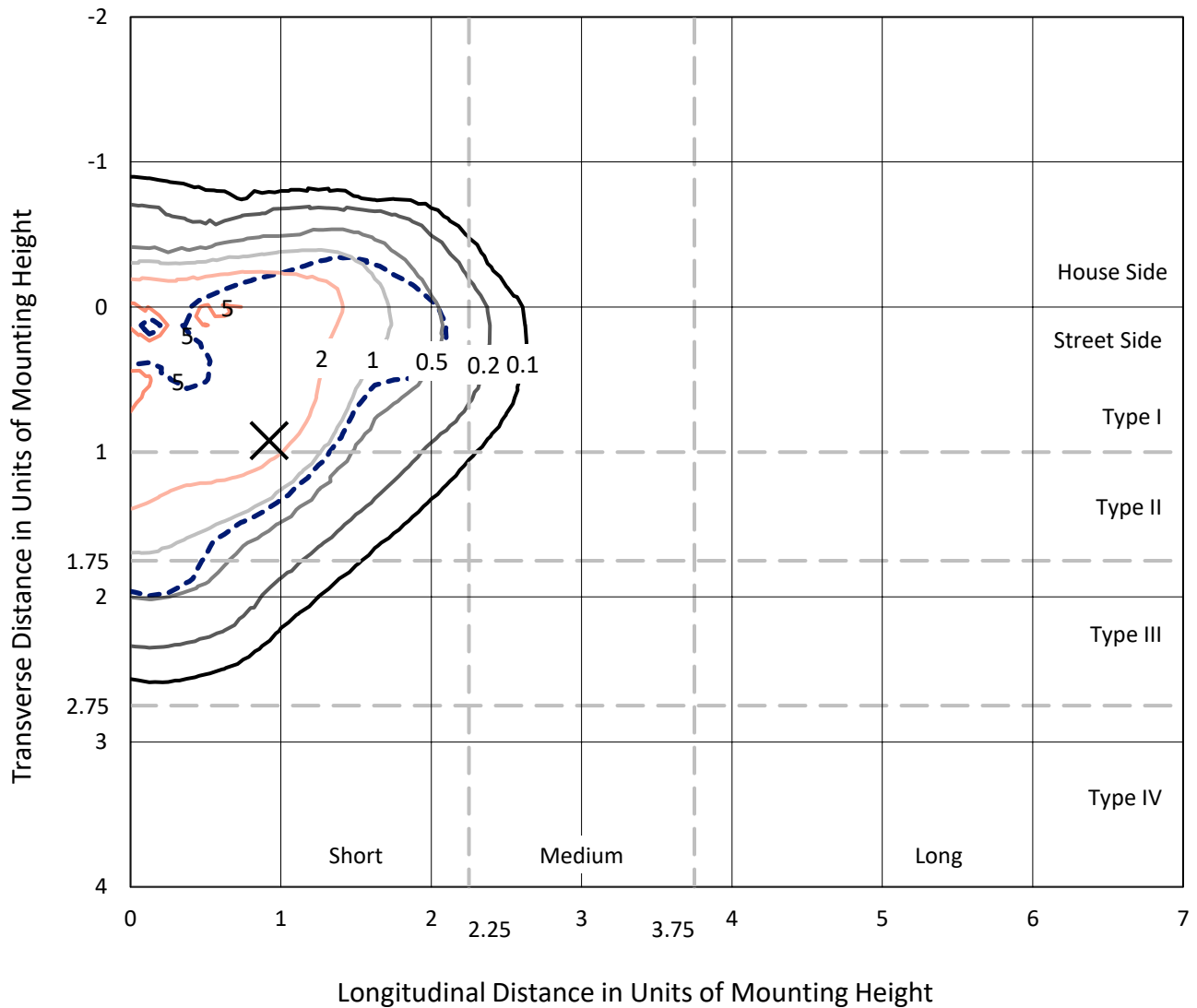
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

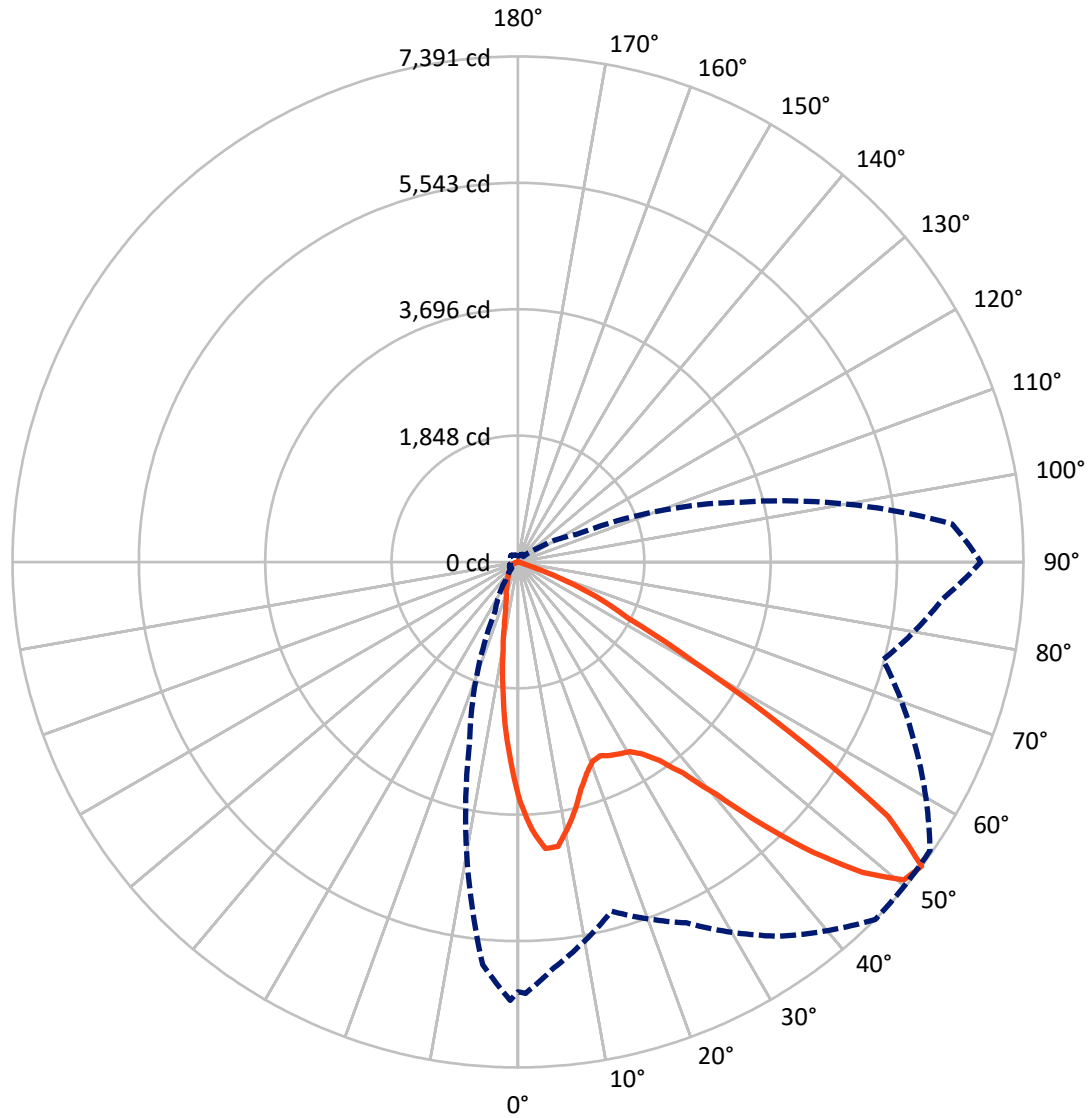
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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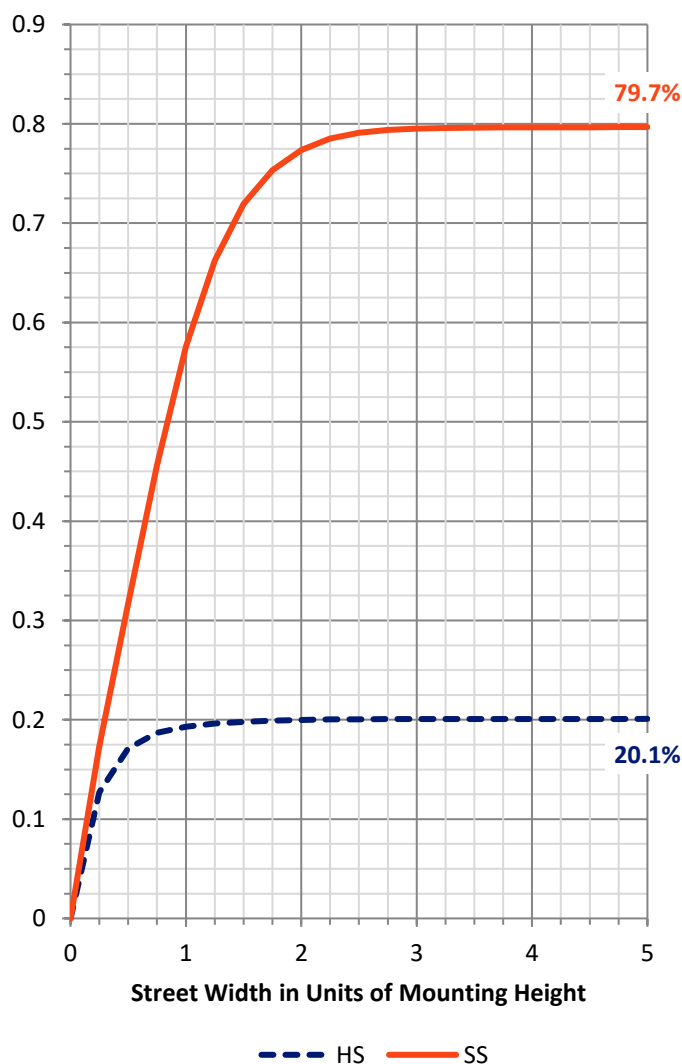
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.2	0.0	1401.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5502.8	0.0	5502.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	6904.0	0.0	6904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	3.7
10°-20°	503.7	7.3
20°-30°	766.5	11.1
30°-40°	1145.7	16.6
40°-50°	1631.5	23.6
50°-60°	1753.9	25.4
60°-70°	777.2	11.3
70°-80°	62.9	0.9
80°-90°	7.3	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°	6904.0	100.0
0°-180°	6904.0	100.0

Coefficient of Utilization

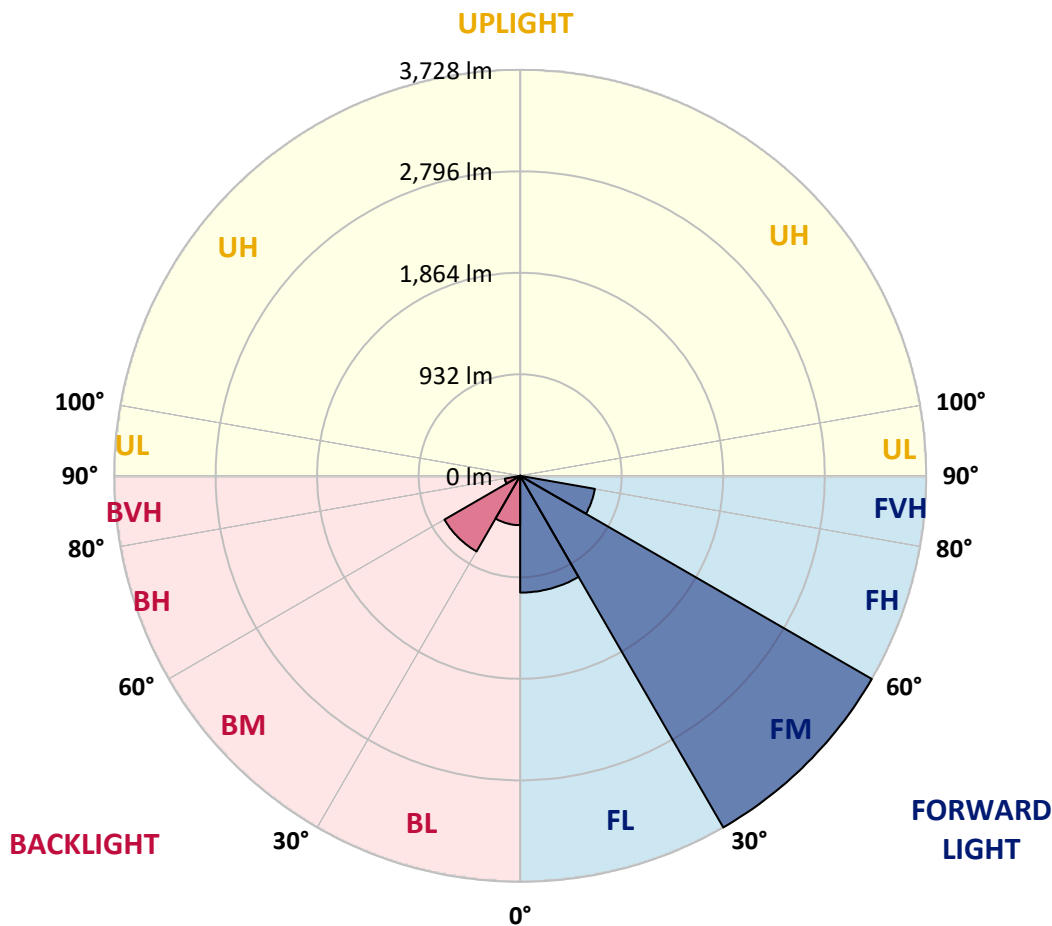


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.3	15.5			
FM (30°-60°)	3728.4	54.0			
FH (60°-80°)	696.7	10.1			G1/1800
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	453.2	6.6	B1/500		
BM (30°-60°)	802.7	11.6	B1/1000		
BH (60°-80°)	143.4	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3704.3	3715.2	3774.9	3849.6	3889.0	3978.6	3916.2	3932.5	3898.5	3779.0	3685.3
5°	3591.6	3590.3	3666.3	3851.0	4026.2	4204.0	4209.5	4114.4	3947.4	3764.1	3502.0
7.5°	3252.2	3305.1	3383.9	3678.5	4003.1	4136.1	4200.0	4088.6	3832.0	3569.9	3286.1
10°	2995.5	3022.7	3155.7	3511.5	3749.1	3927.0	3966.4	3902.6	3705.7	3378.4	3060.7
12.5°	2847.5	2861.1	3017.2	3316.0	3567.2	3698.9	3717.9	3747.8	3606.6	3299.7	2918.1
15°	2848.9	2859.7	3070.2	3320.0	3419.2	3383.9	3446.3	3445.0	3506.1	3284.7	3037.6
17.5°	3053.9	3066.1	3256.2	3379.8	3336.3	3253.5	3249.4	3311.9	3440.9	3470.8	3218.2
20°	3407.0	3435.5	3575.3	3568.5	3324.1	3157.1	3110.9	3158.5	3458.6	3628.3	3582.1
22.5°	3882.2	3921.6	4019.4	3832.0	3379.8	3091.9	3077.0	3169.3	3575.3	3980.0	3994.9
25°	4433.5	4500.1	4547.6	4307.2	3578.0	3204.6	3134.0	3292.9	3732.8	4361.6	4520.4
27.5°	4798.8	4868.0	4857.2	4513.6	3711.1	3234.5	3174.8	3322.8	3870.0	4452.5	4794.7
30°	5084.0	5126.0	5202.1	4625.0	3844.2	3318.7	3216.8	3449.0	3914.8	4610.0	5126.0
32.5°	5416.6	5445.2	5450.6	4821.9	4049.2	3424.6	3347.2	3606.6	4113.1	4760.8	5419.4
35°	5752.0	5794.1	5705.9	5064.9	4175.5	3621.5	3564.5	3879.5	4271.9	4916.9	5742.5
37.5°	6116.0	6137.7	5934.0	5165.4	4356.1	3942.0	3910.7	4174.2	4547.6	5199.4	6101.0
40°	6421.5	6441.8	6177.1	5289.0	4546.2	4390.1	4470.2	4736.3	4922.4	5382.7	6280.3
42.5°	6591.2	6638.7	6258.5	5221.1	4927.8	4897.9	5253.7	5347.4	5356.9	5434.3	6440.5
45°	6637.4	6615.7	6124.1	5276.8	5261.8	5733.0	6056.2	6179.8	5788.7	5529.3	6481.2
47.5°	6424.2	6452.7	5925.8	5227.9	5700.4	6365.8	6784.0	7013.5	6110.5	5446.5	6380.7
50°	6251.7	6215.1	5862.0	5192.6	5818.6	6664.5	7309.5	7361.1	6406.5	5548.4	6270.8
52.5°	6285.7	6308.8	5963.9	5286.3	5821.3	6682.2	7391.0	7355.7	6416.0	5525.3	6231.4
55°	6357.7	6255.8	5920.4	5079.9	5431.6	6189.3	6560.0	6505.7	5921.8	5279.5	6135.0
57.5°	5485.9	5643.4	5443.8	4535.4	4458.0	4663.0	4656.2	4823.2	4417.2	4543.5	5585.0
60°	4452.5	4479.7	4554.4	3879.5	3085.1	3014.5	2916.8	2810.8	2972.4	3884.9	5079.9
62.5°	3916.2	3883.6	4149.7	3529.2	2178.1	1823.7	1807.4	1872.5	2293.5	3705.7	4764.8
65°	2846.1	2886.9	3079.7	2738.9	1634.9	1391.8	1367.4	1560.2	1856.2	2969.7	3636.4
67.5°	1738.1	1816.9	1834.5	1689.2	1109.4	881.3	846.0	1021.1	1340.2	1921.4	2131.9
70°	802.5	897.6	987.2	922.0	642.3	362.6	342.2	429.1	676.2	1105.3	1131.1
72.5°	243.1	244.4	342.2	357.1	207.8	81.5	72.0	95.1	229.5	365.3	384.3
75°	17.7	19.0	46.2	53.0	39.4	20.4	21.7	25.8	48.9	81.5	61.1
77.5°	1.4	1.4	1.4	6.8	12.2	13.6	17.7	20.4	25.8	29.9	27.2
80°	1.4	0.0	1.4	5.4	9.5	13.6	16.3	19.0	20.4	23.1	20.4
82.5°	0.0	0.0	0.0	4.1	9.5	13.6	14.9	20.4	23.1	27.2	23.1
85°	0.0	0.0	0.0	4.1	9.5	14.9	13.6	6.8	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°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3701.6	3648.7	3527.8	3466.7	3322.8	3302.4	3161.2	3138.1	3090.6	3064.8	3002.3
5°	3386.6	3322.8	3125.9	2960.2	2767.4	2633.0	2529.8	2436.1	2381.7	2331.5	2354.6
7.5°	3129.9	2943.9	2725.3	2448.3	2225.6	2081.7	1924.1	1795.1	1719.1	1667.5	1679.7
10°	2861.1	2740.2	2436.1	2125.1	1856.2	1754.4	1630.8	1531.7	1424.4	1332.1	1288.6
12.5°	2776.9	2597.6	2216.1	1899.7	1696.0	1596.9	1455.7	1341.6	1204.5	1091.7	1052.4
15°	2791.8	2619.4	2156.3	1818.2	1577.9	1406.8	1238.4	1097.2	946.5	867.7	827.0
17.5°	3034.9	2736.2	2195.7	1732.7	1413.6	1175.9	968.2	788.9	676.2	594.8	577.1
20°	3333.6	2988.7	2279.9	1670.2	1279.1	935.6	707.5	552.7	459.0	445.4	441.3
22.5°	3770.9	3401.5	2460.5	1628.1	1114.8	729.2	484.8	401.9	376.1	373.4	374.8
25°	4381.9	3918.9	2657.4	1592.8	991.3	562.2	396.5	340.8	332.7	328.6	335.4
27.5°	4646.7	4231.2	2762.0	1516.8	878.6	506.5	391.1	338.1	315.0	308.2	312.3
30°	4974.0	4439.0	2926.3	1386.4	712.9	416.9	365.3	368.0	357.1	323.2	312.3
32.5°	5408.5	4698.3	3009.1	1294.1	636.9	344.9	267.5	245.8	274.3	279.7	289.2
35°	5686.9	4961.7	3051.2	1239.8	597.5	294.7	226.8	206.4	199.6	201.0	206.4
37.5°	6204.2	5317.5	3104.1	1182.7	567.6	256.6	205.0	186.0	176.5	176.5	182.0
40°	6513.8	5600.0	3176.1	1151.5	537.7	233.6	186.0	169.7	161.6	161.6	164.3
42.5°	6591.2	5739.8	3151.7	1140.6	503.8	228.1	169.7	157.5	148.0	146.7	145.3
45°	6729.7	5953.0	3155.7	1128.4	468.5	207.8	160.2	146.7	133.1	131.7	130.4
47.5°	6881.8	6106.4	3163.9	1080.9	434.5	173.8	167.0	135.8	119.5	116.8	116.8
50°	6751.4	6228.7	3234.5	1033.4	391.1	141.2	164.3	127.6	105.9	101.8	103.2
52.5°	6767.7	6372.6	3383.9	966.8	336.8	112.7	133.1	120.9	96.4	89.6	91.0
55°	6507.0	6220.5	3404.2	896.2	263.4	86.9	101.8	105.9	81.5	78.8	78.8
57.5°	5601.3	5267.3	3003.7	726.5	173.8	72.0	73.3	92.3	70.6	67.9	69.3
60°	4793.4	4228.5	2417.1	479.3	108.6	57.0	53.0	93.7	62.5	61.1	65.2
62.5°	4369.7	3474.8	1833.2	297.4	74.7	43.5	36.7	76.0	54.3	54.3	59.7
65°	3157.1	2334.2	1065.9	156.2	53.0	33.9	27.2	43.5	44.8	46.2	48.9
67.5°	1955.4	1178.7	449.5	76.0	35.3	23.1	17.7	27.2	29.9	29.9	32.6
70°	965.5	469.8	149.4	43.5	27.2	19.0	12.2	14.9	14.9	13.6	14.9
72.5°	298.7	141.2	38.0	27.2	19.0	12.2	6.8	5.4	2.7	0.0	1.4
75°	33.9	27.2	24.4	19.0	12.2	5.4	1.4	0.0	0.0	0.0	0.0
77.5°	20.4	23.1	23.1	19.0	12.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	16.3	17.7	19.0	17.7	10.9	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	23.1	25.8	23.1	14.9	6.8	2.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.1	1.4	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°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	2976.5	2946.6	2988.7	2926.3	2924.9	2926.3	2908.6	2892.3	2918.1	2987.4	2994.2
5°	2271.8	2335.6	2355.9	2422.5	2385.8	2331.5	2342.4	2305.7	2395.3	2434.7	2403.5
7.5°	1653.9	1649.8	1787.0	1795.1	1812.8	1814.1	1811.4	1739.5	1666.1	1682.4	1731.3
10°	1283.2	1214.0	1280.5	1273.7	1317.2	1304.9	1322.6	1245.2	1271.0	1271.0	1302.2
12.5°	1045.6	972.3	960.0	942.4	960.0	966.8	973.6	958.7	1002.1	1022.5	1044.2
15°	798.4	757.7	746.8	712.9	718.3	737.3	753.6	760.4	746.8	778.1	780.8
17.5°	579.8	578.5	585.3	583.9	578.5	574.4	573.0	555.4	549.9	552.7	563.5
20°	440.0	450.8	473.9	497.0	509.2	494.3	473.9	444.0	431.8	434.5	435.9
22.5°	376.1	392.4	423.7	449.5	461.7	434.5	397.9	372.1	366.6	365.3	363.9
25°	340.8	359.8	382.9	391.1	389.7	373.4	346.3	335.4	332.7	330.0	317.7
27.5°	321.8	328.6	332.7	342.2	346.3	335.4	328.6	312.3	309.6	309.6	301.5
30°	311.0	306.9	312.3	305.5	311.0	302.8	304.2	304.2	297.4	300.1	300.1
32.5°	289.2	290.6	290.6	277.0	281.1	271.6	281.1	289.2	290.6	291.9	302.8
35°	211.8	236.3	248.5	248.5	252.6	245.8	244.4	234.9	222.7	210.5	205.0
37.5°	186.0	195.5	211.8	221.3	228.1	222.7	210.5	195.5	188.7	183.3	177.9
40°	165.7	173.8	184.7	195.5	209.1	202.3	183.3	176.5	168.4	168.4	162.9
42.5°	149.4	153.4	160.2	176.5	191.5	177.9	164.3	158.9	154.8	153.4	152.1
45°	134.4	135.8	142.6	156.2	173.8	160.2	146.7	139.9	141.2	142.6	141.2
47.5°	120.9	123.6	127.6	143.9	154.8	148.0	133.1	129.0	129.0	129.0	130.4
50°	104.6	111.3	119.5	133.1	141.2	137.1	124.9	119.5	116.8	116.8	118.1
52.5°	93.7	99.1	110.0	126.3	137.1	130.4	118.1	110.0	104.6	103.2	105.9
55°	81.5	91.0	108.6	120.9	135.8	129.0	115.4	105.9	96.4	95.1	95.1
57.5°	73.3	88.3	104.6	119.5	131.7	126.3	115.4	103.2	91.0	89.6	89.6
60°	69.3	85.5	101.8	115.4	131.7	123.6	114.1	100.5	86.9	86.9	85.5
62.5°	65.2	80.1	96.4	110.0	126.3	119.5	110.0	96.4	82.8	82.8	80.1
65°	54.3	69.3	80.1	92.3	110.0	103.2	93.7	84.2	73.3	70.6	72.0
67.5°	38.0	47.5	58.4	70.6	81.5	78.8	74.7	67.9	58.4	57.0	55.7
70°	19.0	25.8	35.3	47.5	57.0	54.3	51.6	46.2	40.7	39.4	39.4
72.5°	2.7	8.1	14.9	21.7	29.9	31.2	29.9	28.5	27.2	25.8	27.2
75°	0.0	0.0	0.0	5.4	12.2	14.9	17.7	20.4	20.4	17.7	21.7
77.5°	0.0	0.0	0.0	0.0	1.4	6.8	13.6	17.7	21.7	19.0	25.8
80°	0.0	0.0	0.0	0.0	1.4	8.1	13.6	19.0	21.7	19.0	27.2
82.5°	0.0	0.0	0.0	0.0	1.4	9.5	13.6	17.7	20.4	19.0	24.4
85°	0.0	0.0	0.0	0.0	4.1	8.1	5.4	2.7	1.4	1.4	4.1
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°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3032.2	3128.6	3231.8	3271.2	3393.4	3485.7	3548.2	3682.6	3703.0	3704.3
5°	2436.1	2484.9	2661.5	2744.3	2926.3	3067.5	3218.2	3435.5	3580.8	3591.6
7.5°	1731.3	1867.1	1941.8	2157.7	2381.7	2603.1	2827.1	3079.7	3248.1	3252.2
10°	1393.2	1481.5	1614.5	1776.1	1964.9	2190.3	2489.0	2782.3	2953.4	2995.5
12.5°	1121.6	1276.4	1428.5	1595.5	1739.5	1909.2	2231.0	2622.1	2763.3	2847.5
15°	863.6	1004.8	1184.1	1379.6	1542.6	1769.3	2136.0	2582.7	2820.3	2848.9
17.5°	636.9	763.1	928.8	1113.5	1357.9	1679.7	2152.3	2782.3	3006.4	3053.9
20°	457.6	530.9	661.3	875.8	1186.8	1575.2	2168.6	2984.6	3325.5	3407.0
22.5°	362.6	392.4	478.0	668.1	995.3	1465.2	2284.0	3371.6	3764.1	3882.2
25°	315.0	331.3	372.1	526.9	874.5	1454.3	2468.7	3836.0	4348.0	4433.5
27.5°	304.2	306.9	342.2	483.4	809.3	1382.3	2539.3	4166.0	4711.9	4798.8
30°	320.5	363.9	366.6	408.7	688.5	1239.8	2575.9	4485.1	5020.1	5084.0
32.5°	277.0	263.4	272.9	316.4	605.6	1156.9	2645.2	4763.5	5371.8	5416.6
35°	192.8	202.3	224.1	274.3	529.6	1070.0	2662.8	5070.4	5705.9	5752.0
37.5°	177.9	183.3	201.0	233.6	465.8	1021.1	2638.4	5294.4	6052.1	6116.0
40°	165.7	172.5	182.0	211.8	418.2	966.8	2604.4	5496.8	6264.0	6421.5
42.5°	156.2	161.6	169.7	202.3	377.5	912.5	2556.9	5781.9	6454.1	6591.2
45°	145.3	153.4	162.9	196.9	354.4	875.8	2521.6	5764.3	6564.1	6637.4
47.5°	134.4	148.0	158.9	183.3	347.6	858.2	2536.5	5697.7	6474.4	6424.2
50°	123.6	141.2	160.2	152.1	331.3	822.9	2554.2	5788.7	6261.2	6251.7
52.5°	114.1	134.4	149.4	124.9	294.7	788.9	2725.3	5908.2	6412.0	6285.7
55°	100.5	120.9	119.5	100.5	239.0	763.1	2859.7	5910.9	6310.1	6357.7
57.5°	91.0	107.3	93.7	84.2	176.5	638.2	2641.1	4956.3	5401.7	5485.9
60°	84.2	104.6	70.6	66.5	115.4	460.3	2305.7	3838.8	4293.7	4452.5
62.5°	77.4	99.1	55.7	54.3	80.1	327.3	1895.6	3212.8	3700.3	3916.2
65°	67.9	70.6	44.8	42.1	57.0	176.5	1154.2	2212.0	2766.0	2846.1
67.5°	55.7	54.3	36.7	33.9	38.0	85.5	509.2	1108.0	1603.7	1738.1
70°	44.8	44.8	31.2	27.2	27.2	39.4	133.1	441.3	725.1	802.5
72.5°	32.6	33.9	24.4	21.7	20.4	19.0	21.7	88.3	190.1	243.1
75°	28.5	29.9	24.4	19.0	14.9	12.2	9.5	8.1	10.9	17.7
77.5°	31.2	31.2	25.8	17.7	13.6	9.5	5.4	2.7	2.7	1.4
80°	39.4	40.7	33.9	23.1	16.3	10.9	6.8	2.7	1.4	1.4
82.5°	42.1	46.2	38.0	28.5	20.4	12.2	6.8	1.4	0.0	0.0
85°	10.9	17.7	29.9	25.8	20.4	12.2	6.8	1.4	0.0	0.0
87.5°	0.0	1.4	4.1	4.1	5.4	5.4	4.1	1.4	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)