

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: P652229

Luminaire Tested: **GALN-SA2B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652229
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-SA2B-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 5320.1 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

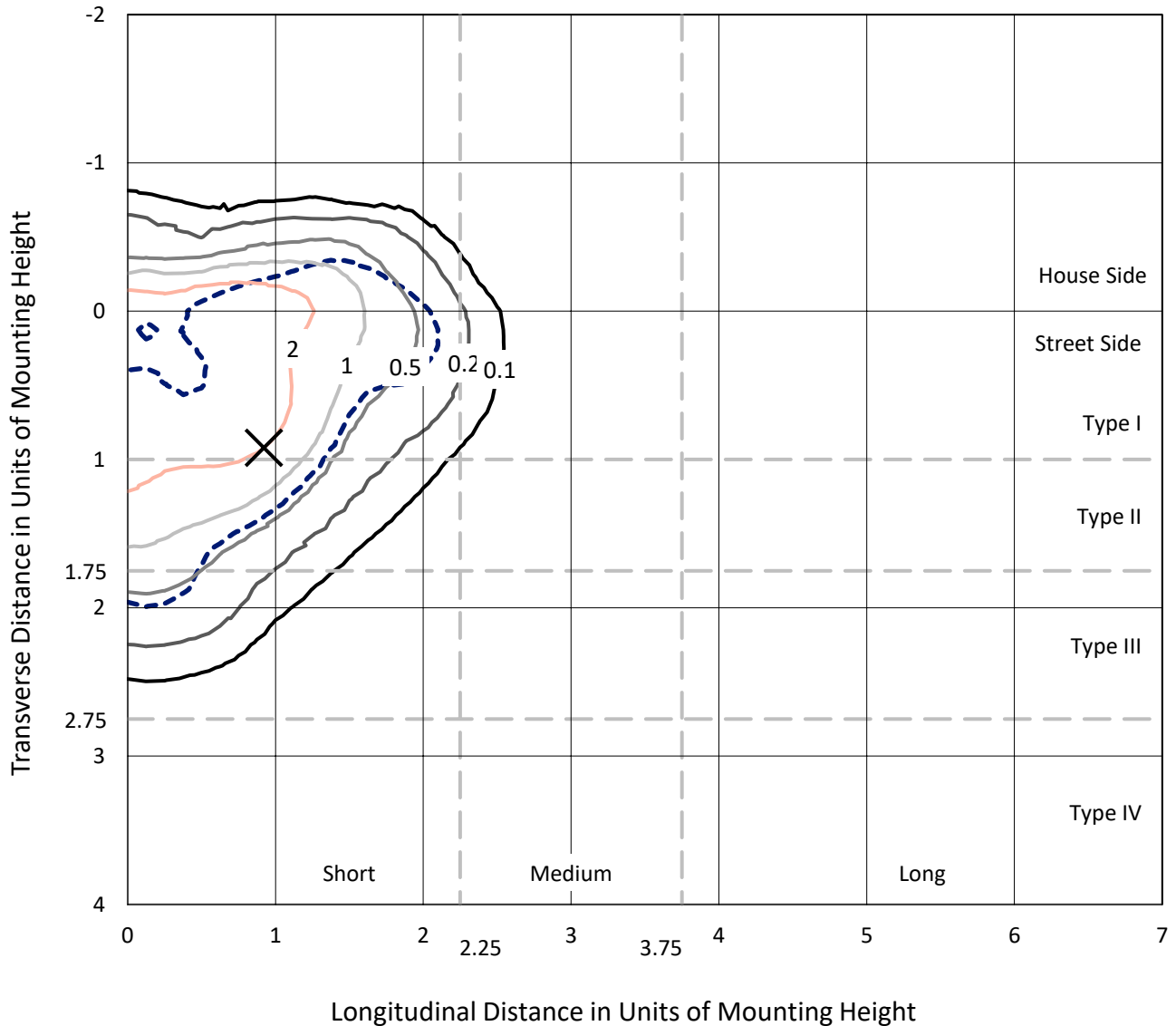
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

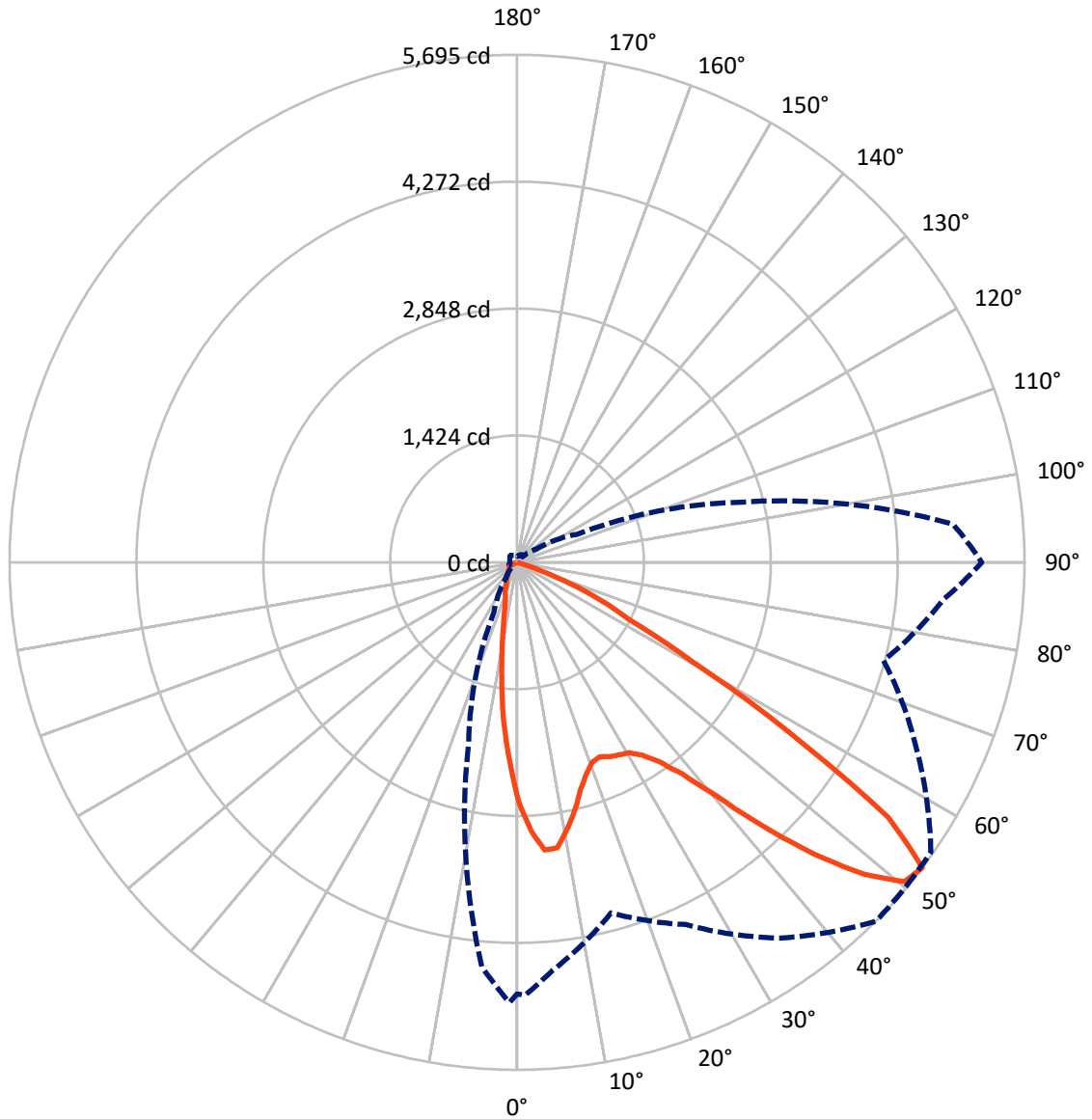
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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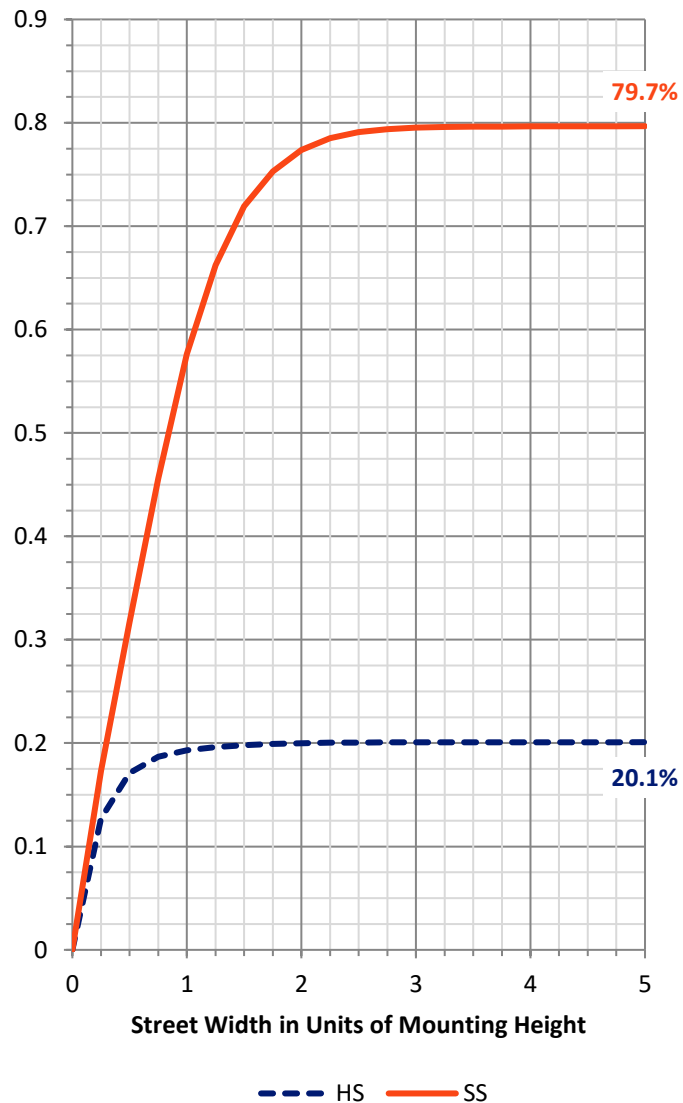
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.7	0.0	1079.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4240.4	0.0	4240.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	5320.1	0.0	5320.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.7
10°-20°	388.1	7.3
20°-30°	590.7	11.1
30°-40°	882.9	16.6
40°-50°	1257.3	23.6
50°-60°	1351.5	25.4
60°-70°	598.9	11.3
70°-80°	48.4	0.9
80°-90°	5.6	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°	5320.1	100.0
0°-180°	5320.1	100.0

Coefficient of Utilization



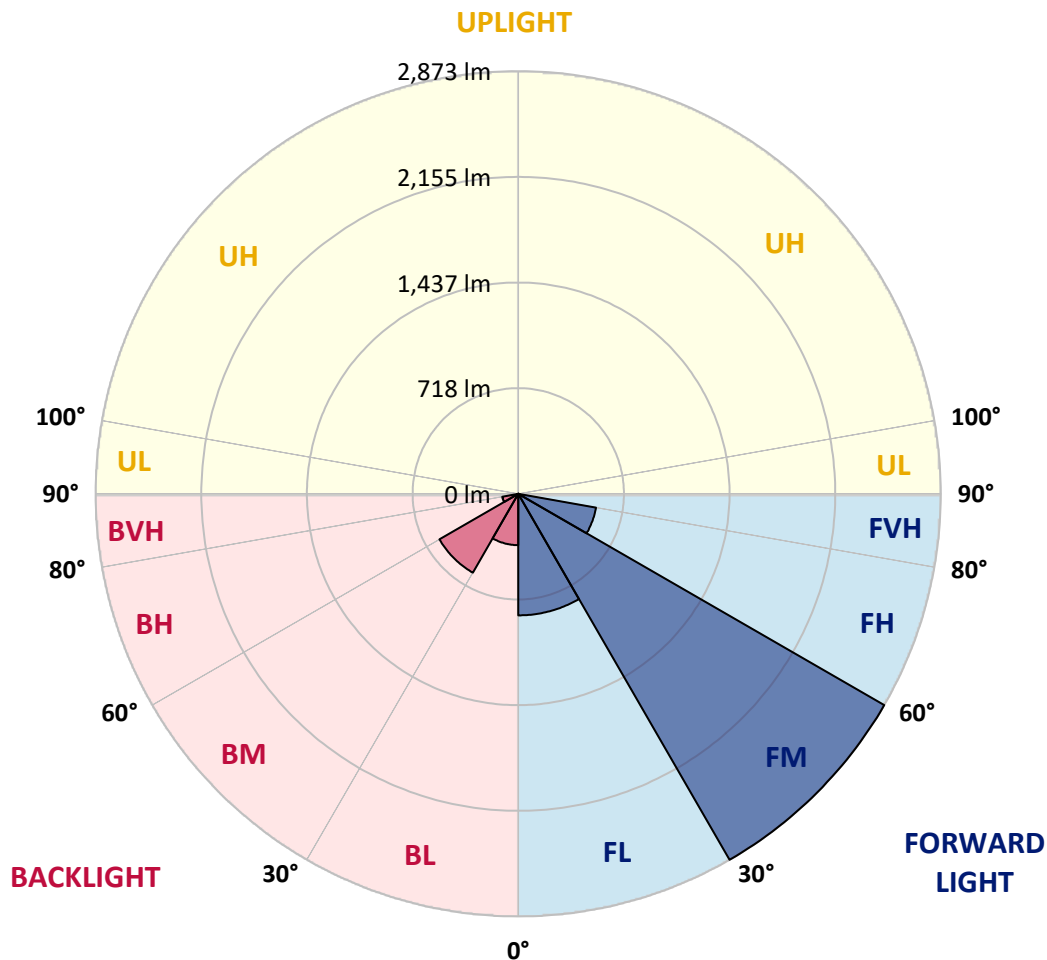
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.3	15.5			
FM (30°-60°)	2873.1	54.0			
FH (60°-80°)	536.9	10.1			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	349.2	6.6	B1/500		
BM (30°-60°)	618.6	11.6	B1/1000		
BH (60°-80°)	110.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	2854.5	2862.9	2908.9	2966.5	2996.8	3065.9	3017.8	3030.3	3004.1	2912.0	2839.9
5°	2767.6	2766.6	2825.3	2967.6	3102.5	3239.6	3243.8	3170.6	3041.8	2900.6	2698.6
7.5°	2506.1	2546.9	2607.6	2834.7	3084.7	3187.3	3236.4	3150.6	2952.9	2750.9	2532.3
10°	2308.3	2329.2	2431.8	2705.9	2889.1	3026.2	3056.4	3007.3	2855.6	2603.4	2358.6
12.5°	2194.3	2204.8	2325.0	2555.3	2748.8	2850.3	2865.0	2888.0	2779.2	2542.7	2248.7
15°	2195.3	2203.7	2365.9	2558.4	2634.8	2607.6	2655.7	2654.7	2701.8	2531.2	2340.8
17.5°	2353.3	2362.7	2509.2	2604.4	2570.9	2507.1	2504.0	2552.1	2651.5	2674.5	2479.9
20°	2625.3	2647.4	2755.1	2749.9	2561.5	2432.8	2397.3	2433.9	2665.1	2795.9	2760.3
22.5°	2991.6	3022.0	3097.3	2952.9	2604.4	2382.6	2371.1	2442.3	2755.1	3067.0	3078.5
25°	3416.4	3467.7	3504.4	3319.1	2757.2	2469.4	2415.0	2537.5	2876.5	3361.0	3483.4
27.5°	3697.9	3751.3	3742.9	3478.2	2859.7	2492.5	2446.5	2560.5	2982.2	3431.1	3694.8
30°	3917.6	3950.1	4008.7	3564.0	2962.3	2557.4	2478.8	2657.8	3016.8	3552.5	3950.1
32.5°	4174.1	4196.0	4200.2	3715.7	3120.3	2639.0	2579.3	2779.2	3169.5	3668.6	4176.1
35°	4432.5	4464.9	4396.9	3903.0	3217.6	2790.7	2746.8	2989.5	3291.9	3789.0	4425.2
37.5°	4712.9	4729.6	4572.7	3980.5	3356.8	3037.6	3013.6	3216.6	3504.4	4006.6	4701.4
40°	4948.4	4964.0	4760.0	4075.7	3503.3	3382.9	3444.7	3649.8	3793.2	4147.9	4839.5
42.5°	5079.1	5115.7	4822.8	4023.3	3797.3	3774.3	4048.5	4120.6	4128.0	4187.6	4963.0
45°	5114.7	5098.0	4719.2	4066.2	4054.7	4417.9	4666.9	4762.1	4460.7	4260.8	4994.4
47.5°	4950.5	4972.4	4566.4	4028.6	4392.7	4905.5	5227.7	5404.5	4708.7	4197.0	4916.9
50°	4817.5	4789.3	4517.3	4001.4	4483.7	5135.7	5632.7	5672.5	4936.8	4275.5	4832.2
52.5°	4843.7	4861.5	4595.7	4073.6	4485.8	5149.3	5695.4	5668.3	4944.2	4257.7	4801.9
55°	4899.2	4820.7	4562.3	3914.5	4185.5	4769.4	5055.1	5013.2	4563.3	4068.3	4727.5
57.5°	4227.4	4348.7	4194.9	3494.9	3435.2	3593.3	3588.0	3716.7	3403.9	3501.2	4303.7
60°	3431.1	3452.1	3509.6	2989.5	2377.3	2322.9	2247.7	2166.0	2290.5	2993.7	3914.5
62.5°	3017.8	2992.6	3197.7	2719.5	1678.4	1405.3	1392.7	1443.0	1767.4	2855.6	3671.7
65°	2193.2	2224.6	2373.2	2110.6	1259.8	1072.5	1053.7	1202.3	1430.4	2288.4	2802.2
67.5°	1339.4	1400.1	1413.6	1301.7	854.9	679.1	651.9	786.8	1032.7	1480.7	1642.8
70°	618.4	691.6	760.7	710.5	494.9	279.4	263.7	330.7	521.1	851.8	871.6
72.5°	187.3	188.4	263.7	275.2	160.1	62.8	55.4	73.3	176.9	281.5	296.1
75°	13.6	14.6	35.6	40.8	30.4	15.7	16.7	19.8	37.7	62.8	47.1
77.5°	1.0	1.0	1.0	5.2	9.4	10.4	13.6	15.7	19.8	23.0	20.9
80°	1.0	0.0	1.0	4.2	7.3	10.4	12.5	14.6	15.7	17.8	15.7
82.5°	0.0	0.0	0.0	3.1	7.3	10.4	11.5	15.7	17.8	20.9	17.8
85°	0.0	0.0	0.0	3.1	7.3	11.5	10.4	5.2	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°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	2852.4	2811.6	2718.5	2671.4	2560.5	2544.8	2436.0	2418.2	2381.5	2361.7	2313.6
5°	2609.7	2560.5	2408.8	2281.1	2132.5	2028.9	1949.4	1877.2	1835.3	1796.6	1814.5
7.5°	2411.9	2268.5	2100.1	1886.6	1715.1	1604.1	1482.7	1383.3	1324.7	1285.0	1294.4
10°	2204.8	2111.6	1877.2	1637.6	1430.4	1351.9	1256.7	1180.3	1097.7	1026.5	993.1
12.5°	2139.8	2001.7	1707.7	1463.9	1306.9	1230.6	1121.7	1033.8	928.1	841.3	811.0
15°	2151.4	2018.5	1661.6	1401.1	1215.9	1084.0	954.3	845.5	729.3	668.7	637.2
17.5°	2338.7	2108.5	1692.0	1335.2	1089.3	906.2	746.1	608.0	521.1	458.3	444.7
20°	2568.8	2303.1	1756.8	1287.1	985.7	721.0	545.1	425.9	353.6	343.2	340.1
22.5°	2905.8	2621.1	1896.0	1254.6	859.1	561.9	373.6	309.7	289.8	287.8	288.8
25°	3376.7	3019.9	2047.8	1227.4	763.9	433.2	305.5	262.6	256.3	253.2	258.4
27.5°	3580.7	3260.6	2128.3	1168.8	677.0	390.3	301.3	260.5	242.8	237.5	240.7
30°	3832.9	3420.6	2255.0	1068.3	549.3	321.3	281.5	283.6	275.2	249.0	240.7
32.5°	4167.7	3620.5	2318.8	997.2	490.7	265.8	206.1	189.4	211.3	215.5	222.9
35°	4382.3	3823.4	2351.2	955.4	460.4	227.1	174.8	159.0	153.8	154.8	159.0
37.5°	4780.9	4097.6	2392.1	911.4	437.4	197.8	158.0	143.4	136.0	136.0	140.2
40°	5019.5	4315.3	2447.5	887.3	414.4	180.0	143.4	130.8	124.6	124.6	126.6
42.5°	5079.1	4423.1	2428.6	878.9	388.2	175.8	130.8	121.4	114.0	113.0	111.9
45°	5185.9	4587.3	2431.8	869.5	361.0	160.1	123.5	113.0	102.5	101.5	100.4
47.5°	5303.1	4705.6	2438.1	832.9	334.8	134.0	128.7	104.6	92.1	90.0	90.0
50°	5202.6	4799.8	2492.5	796.3	301.3	108.8	126.6	98.4	81.6	78.5	79.6
52.5°	5215.1	4910.7	2607.6	745.0	259.5	86.9	102.5	93.1	74.3	69.0	70.1
55°	5014.3	4793.4	2623.2	690.6	203.0	66.9	78.5	81.6	62.8	60.7	60.7
57.5°	4316.3	4058.9	2314.6	559.9	134.0	55.4	56.5	71.1	54.4	52.3	53.4
60°	3693.8	3258.5	1862.6	369.4	83.7	44.0	40.8	72.2	48.1	47.1	50.2
62.5°	3367.3	2677.7	1412.6	229.2	57.5	33.5	28.3	58.6	41.9	41.9	46.0
65°	2432.8	1798.7	821.4	120.3	40.8	26.2	20.9	33.5	34.6	35.6	37.7
67.5°	1506.8	908.3	346.3	58.6	27.2	17.8	13.6	20.9	23.0	23.0	25.1
70°	743.9	362.1	115.1	33.5	20.9	14.6	9.4	11.5	11.5	10.4	11.5
72.5°	230.2	108.8	29.3	20.9	14.6	9.4	5.2	4.2	2.1	0.0	1.0
75°	26.2	20.9	18.8	14.6	9.4	4.2	1.0	0.0	0.0	0.0	0.0
77.5°	15.7	17.8	17.8	14.6	9.4	3.1	0.0	0.0	0.0	0.0	0.0
80°	12.5	13.6	14.6	13.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.7	17.8	19.8	17.8	11.5	5.2	2.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.1	1.0	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°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	2293.7	2270.6	2303.1	2255.0	2253.9	2255.0	2241.3	2228.8	2248.7	2302.1	2307.3
5°	1750.6	1799.7	1815.5	1866.8	1838.5	1796.6	1805.0	1776.8	1845.8	1876.2	1852.1
7.5°	1274.5	1271.3	1377.1	1383.3	1396.9	1398.0	1395.9	1340.4	1283.9	1296.5	1334.2
10°	988.8	935.4	986.7	981.5	1015.0	1005.6	1019.2	959.5	979.4	979.4	1003.5
12.5°	805.7	749.2	739.8	726.2	739.8	745.0	750.3	738.7	772.2	787.9	804.7
15°	615.3	583.9	575.5	549.3	553.5	568.2	580.7	586.0	575.5	599.5	601.7
17.5°	446.8	445.7	451.0	449.9	445.7	442.6	441.6	428.0	423.8	425.9	434.2
20°	339.0	347.4	365.2	383.0	392.4	380.9	365.2	342.2	332.8	334.8	335.9
22.5°	289.8	302.4	326.5	346.3	355.7	334.8	306.6	286.7	282.5	281.5	280.4
25°	262.6	277.3	295.1	301.3	300.3	287.8	266.8	258.4	256.3	254.2	244.8
27.5°	248.0	253.2	256.3	263.7	266.8	258.4	253.2	240.7	238.6	238.6	232.3
30°	239.6	236.5	240.7	235.4	239.6	233.4	234.4	234.4	229.2	231.3	231.3
32.5°	222.9	224.0	224.0	213.4	216.6	209.2	216.6	222.9	224.0	225.0	233.4
35°	163.2	182.1	191.5	191.5	194.6	189.4	188.4	181.0	171.6	162.2	158.0
37.5°	143.4	150.7	163.2	170.6	175.8	171.6	162.2	150.7	145.4	141.3	137.1
40°	127.7	134.0	142.3	150.7	161.1	155.9	141.3	136.0	129.8	129.8	125.6
42.5°	115.1	118.2	123.5	136.0	147.5	137.1	126.6	122.4	119.3	118.2	117.2
45°	103.6	104.6	109.8	120.3	134.0	123.5	113.0	107.8	108.8	109.8	108.8
47.5°	93.1	95.2	98.4	110.9	119.3	114.0	102.5	99.4	99.4	99.4	100.4
50°	80.6	85.8	92.1	102.5	108.8	105.7	96.3	92.1	90.0	90.0	91.0
52.5°	72.2	76.4	84.8	97.3	105.7	100.4	91.0	84.8	80.6	79.6	81.6
55°	62.8	70.1	83.7	93.1	104.6	99.4	89.0	81.6	74.3	73.3	73.3
57.5°	56.5	68.0	80.6	92.1	101.5	97.3	89.0	79.6	70.1	69.0	69.0
60°	53.4	65.9	78.5	89.0	101.5	95.2	87.9	77.5	66.9	66.9	65.9
62.5°	50.2	61.7	74.3	84.8	97.3	92.1	84.8	74.3	63.8	63.8	61.7
65°	41.9	53.4	61.7	71.1	84.8	79.6	72.2	64.8	56.5	54.4	55.4
67.5°	29.3	36.6	45.0	54.4	62.8	60.7	57.5	52.3	45.0	44.0	42.9
70°	14.6	19.8	27.2	36.6	44.0	41.9	39.8	35.6	31.4	30.4	30.4
72.5°	2.1	6.3	11.5	16.7	23.0	24.1	23.0	22.0	20.9	19.8	20.9
75°	0.0	0.0	0.0	4.2	9.4	11.5	13.6	15.7	15.7	13.6	16.7
77.5°	0.0	0.0	0.0	0.0	1.0	5.2	10.4	13.6	16.7	14.6	19.8
80°	0.0	0.0	0.0	0.0	1.0	6.3	10.4	14.6	16.7	14.6	20.9
82.5°	0.0	0.0	0.0	0.0	1.0	7.3	10.4	13.6	15.7	14.6	18.8
85°	0.0	0.0	0.0	0.0	3.1	6.3	4.2	2.1	1.0	1.0	3.1
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°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	2336.6	2410.9	2490.4	2520.7	2614.9	2686.1	2734.2	2837.8	2853.5	2854.5
5°	1877.2	1914.9	2050.9	2114.8	2255.0	2363.8	2479.9	2647.4	2759.3	2767.6
7.5°	1334.2	1438.8	1496.3	1662.7	1835.3	2006.0	2178.5	2373.2	2503.0	2506.1
10°	1073.6	1141.6	1244.2	1368.6	1514.1	1687.8	1918.0	2144.0	2275.9	2308.3
12.5°	864.3	983.6	1100.8	1229.5	1340.4	1471.2	1719.2	2020.6	2129.4	2194.3
15°	665.5	774.3	912.5	1063.1	1188.7	1363.4	1645.9	1990.2	2173.3	2195.3
17.5°	490.7	588.0	715.7	858.1	1046.4	1294.4	1658.5	2144.0	2316.7	2353.3
20°	352.6	409.1	509.6	674.9	914.5	1213.8	1671.1	2300.0	2562.6	2625.3
22.5°	279.4	302.4	368.4	514.9	767.0	1129.0	1760.0	2598.2	2900.6	2991.6
25°	242.8	255.3	286.7	406.0	673.9	1120.7	1902.3	2956.0	3350.5	3416.4
27.5°	234.4	236.5	263.7	372.5	623.6	1065.2	1956.8	3210.3	3630.9	3697.9
30°	246.9	280.4	282.5	315.0	530.5	955.4	1985.0	3456.2	3868.4	3917.6
32.5°	213.4	203.0	210.3	243.8	466.7	891.5	2038.3	3670.7	4139.5	4174.1
35°	148.6	155.9	172.7	211.3	408.1	824.5	2052.0	3907.2	4396.9	4432.5
37.5°	137.1	141.3	154.8	180.0	358.9	786.8	2033.1	4079.9	4663.7	4712.9
40°	127.7	132.9	140.2	163.2	322.3	745.0	2007.0	4235.8	4826.9	4948.4
42.5°	120.3	124.6	130.8	155.9	290.9	703.2	1970.3	4455.5	4973.4	5079.1
45°	111.9	118.2	125.6	151.7	273.1	674.9	1943.1	4441.9	5058.2	5114.7
47.5°	103.6	114.0	122.4	141.3	267.9	661.3	1954.7	4390.6	4989.1	4950.5
50°	95.2	108.8	123.5	117.2	255.3	634.1	1968.3	4460.7	4824.9	4817.5
52.5°	87.9	103.6	115.1	96.3	227.1	608.0	2100.1	4552.8	4941.0	4843.7
55°	77.5	93.1	92.1	77.5	184.2	588.0	2203.7	4554.9	4862.5	4899.2
57.5°	70.1	82.7	72.2	64.8	136.0	491.8	2035.2	3819.3	4162.5	4227.4
60°	64.8	80.6	54.4	51.3	89.0	354.7	1776.8	2958.1	3308.7	3431.1
62.5°	59.6	76.4	42.9	41.9	61.7	252.2	1460.7	2475.7	2851.4	3017.8
65°	52.3	54.4	34.6	32.5	44.0	136.0	889.4	1704.5	2131.5	2193.2
67.5°	42.9	41.9	28.3	26.2	29.3	65.9	392.4	853.9	1235.8	1339.4
70°	34.6	34.6	24.1	20.9	20.9	30.4	102.5	340.1	558.8	618.4
72.5°	25.1	26.2	18.8	16.7	15.7	14.6	16.7	68.0	146.5	187.3
75°	22.0	23.0	18.8	14.6	11.5	9.4	7.3	6.3	8.4	13.6
77.5°	24.1	24.1	19.8	13.6	10.4	7.3	4.2	2.1	2.1	1.0
80°	30.4	31.4	26.2	17.8	12.5	8.4	5.2	2.1	1.0	1.0
82.5°	32.5	35.6	29.3	22.0	15.7	9.4	5.2	1.0	0.0	0.0
85°	8.4	13.6	23.0	19.8	15.7	9.4	5.2	1.0	0.0	0.0
87.5°	0.0	1.0	3.1	3.1	4.2	4.2	3.1	1.0	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)