

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: P527247

Luminaire Tested: **GALN-SA2B-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527247
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-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 5761 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

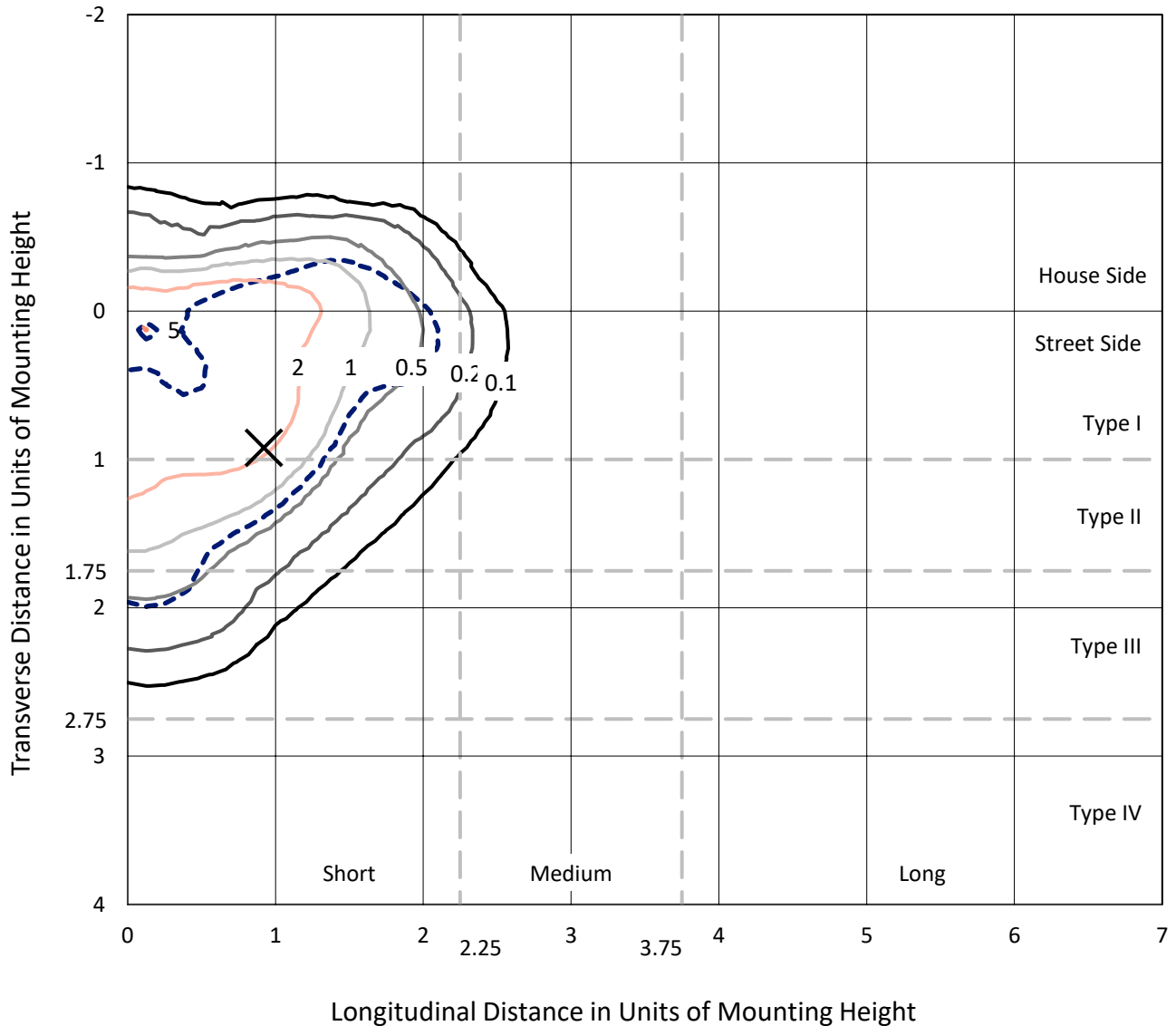
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

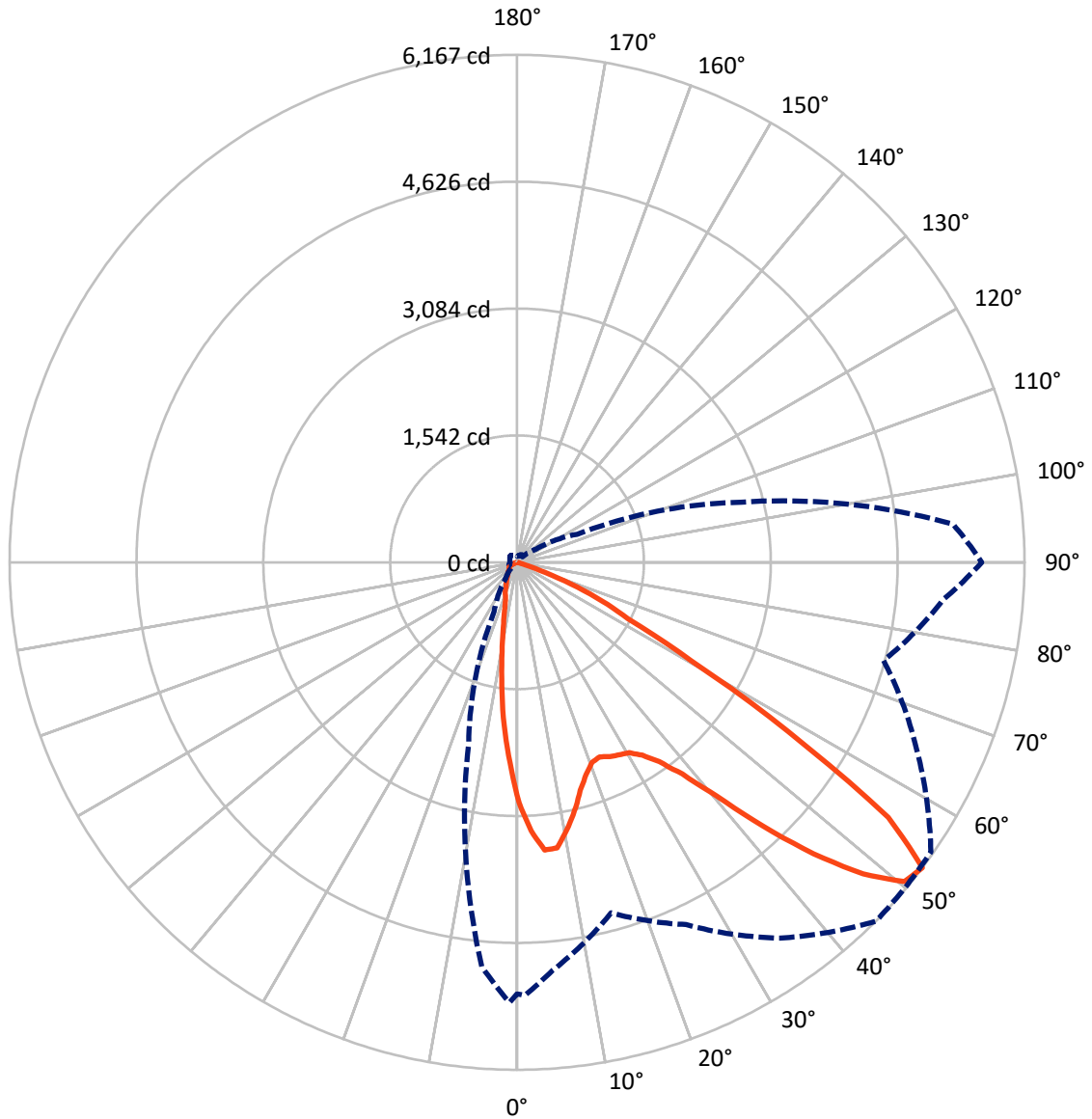
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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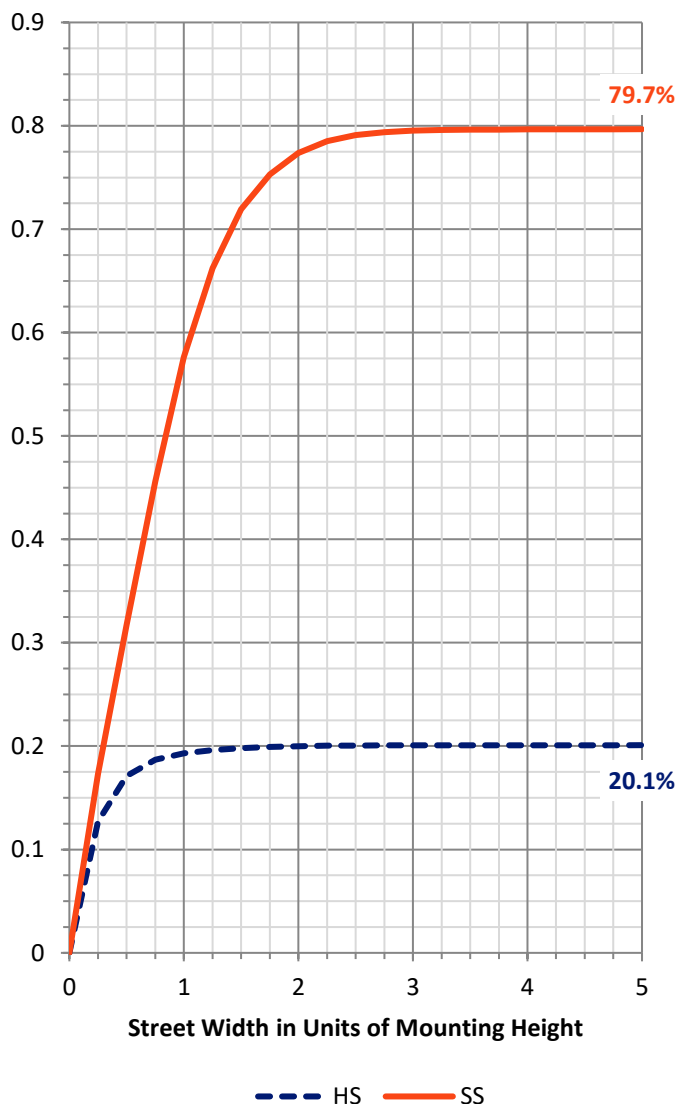
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.2	0.0	1169.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4591.8	0.0	4591.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	5761.0	0.0	5761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	3.7
10°-20°	420.3	7.3
20°-30°	639.6	11.1
30°-40°	956.0	16.6
40°-50°	1361.4	23.6
50°-60°	1463.5	25.4
60°-70°	648.5	11.3
70°-80°	52.5	0.9
80°-90°	6.1	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°	5761.0	100.0
0°-180°	5761.0	100.0

Coefficient of Utilization



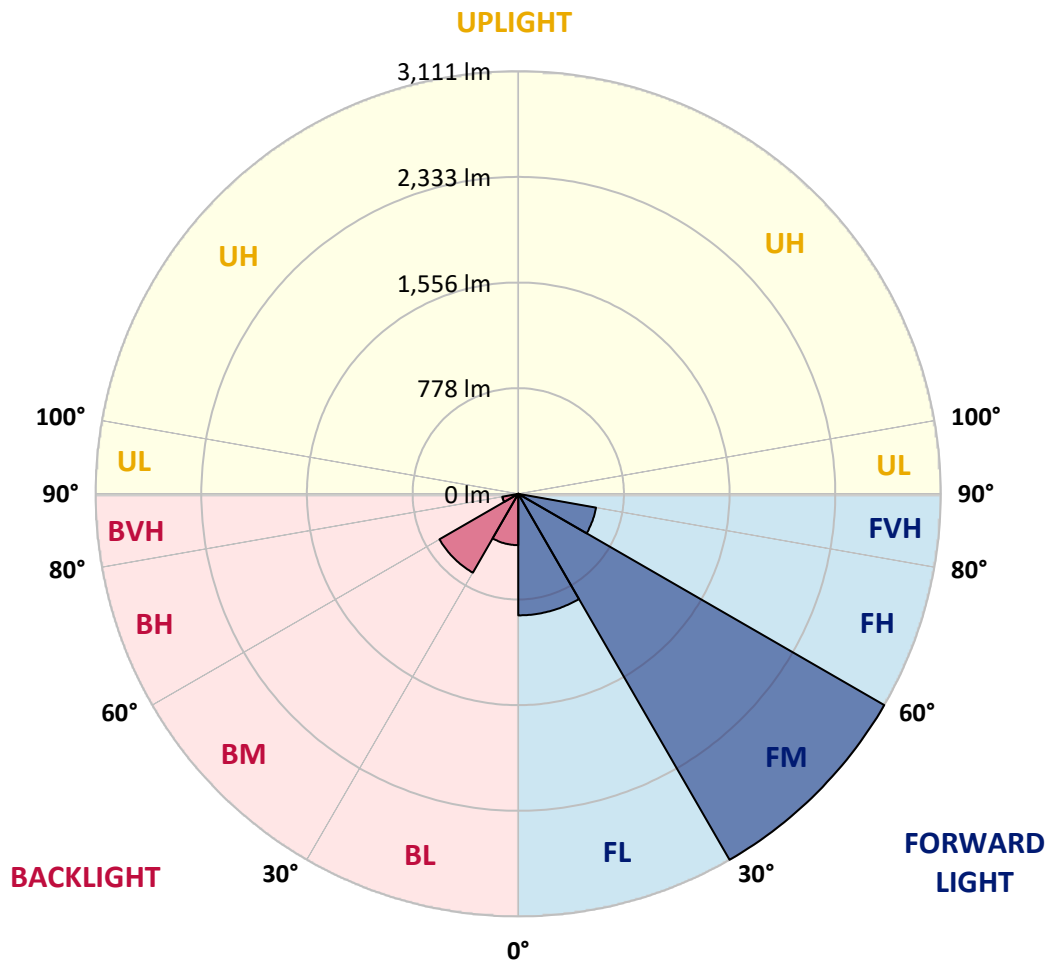
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.8	15.5			
FM (30°-60°)	3111.1	54.0			
FH (60°-80°)	581.4	10.1			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	378.2	6.6	B1/500		
BM (30°-60°)	669.8	11.6	B1/1000		
BH (60°-80°)	119.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	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°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	3091.1	3100.1	3150.0	3212.3	3245.2	3319.9	3267.8	3281.4	3253.1	3153.4	3075.2
5°	2997.0	2995.9	3059.3	3213.4	3359.6	3508.0	3512.6	3433.2	3293.9	3140.9	2922.2
7.5°	2713.7	2757.9	2823.6	3069.5	3340.3	3451.4	3504.6	3411.7	3197.6	2978.9	2742.1
10°	2499.6	2522.2	2633.3	2930.2	3128.4	3276.9	3309.7	3256.5	3092.2	2819.1	2554.0
12.5°	2376.1	2387.4	2517.7	2767.0	2976.6	3086.5	3102.4	3127.3	3009.5	2753.4	2435.0
15°	2377.2	2386.3	2561.9	2770.4	2853.1	2823.6	2875.8	2874.6	2925.6	2740.9	2534.7
17.5°	2548.3	2558.5	2717.1	2820.3	2784.0	2714.9	2711.5	2763.6	2871.2	2896.2	2685.4
20°	2842.9	2866.7	2983.4	2977.7	2773.8	2634.4	2595.9	2635.6	2886.0	3027.6	2989.1
22.5°	3239.5	3272.4	3353.9	3197.6	2820.3	2580.0	2567.6	2644.6	2983.4	3321.1	3333.5
25°	3699.5	3755.0	3794.7	3594.1	2985.7	2674.1	2615.2	2747.7	3114.9	3639.5	3772.0
27.5°	4004.3	4062.1	4053.0	3766.4	3096.7	2699.0	2649.2	2772.7	3229.3	3715.4	4000.9
30°	4242.3	4277.4	4340.9	3859.3	3207.8	2769.3	2684.3	2878.0	3266.7	3846.8	4277.4
32.5°	4519.9	4543.7	4548.2	4023.6	3378.9	2857.6	2793.1	3009.5	3432.1	3972.6	4522.1
35°	4799.8	4834.9	4761.2	4226.4	3484.2	3021.9	2974.3	3237.2	3564.7	4102.9	4791.8
37.5°	5103.4	5121.5	4951.6	4310.3	3634.9	3289.3	3263.3	3483.1	3794.7	4338.6	5091.0
40°	5358.4	5375.4	5154.4	4413.4	3793.6	3663.3	3730.1	3952.2	4107.4	4491.6	5240.5
42.5°	5500.0	5539.7	5222.4	4356.7	4112.0	4087.0	4383.9	4462.1	4470.0	4534.6	5374.2
45°	5538.5	5520.4	5110.2	4403.2	4390.7	4783.9	5053.6	5156.7	4830.3	4613.9	5408.2
47.5°	5360.6	5384.4	4944.8	4362.4	4756.7	5311.9	5660.9	5852.4	5098.9	4544.8	5324.4
50°	5216.7	5186.1	4891.5	4332.9	4855.3	5561.2	6099.4	6142.5	5345.9	4629.8	5232.6
52.5°	5245.1	5264.3	4976.5	4411.1	4857.5	5575.9	6167.4	6137.9	5353.8	4610.5	5199.7
55°	5305.1	5220.1	4940.3	4238.9	4532.3	5164.6	5473.9	5428.6	4941.4	4405.4	5119.3
57.5°	4577.7	4709.1	4542.5	3784.5	3719.9	3891.0	3885.4	4024.7	3685.9	3791.3	4660.4
60°	3715.4	3738.0	3800.4	3237.2	2574.4	2515.5	2433.9	2345.5	2480.3	3241.8	4238.9
62.5°	3267.8	3240.6	3462.7	2944.9	1817.5	1521.7	1508.1	1562.5	1913.8	3092.2	3976.0
65°	2374.9	2408.9	2569.8	2285.4	1364.2	1161.4	1141.0	1301.9	1548.9	2478.1	3034.4
67.5°	1450.3	1516.1	1530.8	1409.6	925.7	735.4	705.9	852.1	1118.4	1603.3	1778.9
70°	669.7	749.0	823.8	769.4	535.9	302.5	285.5	358.1	564.3	922.3	943.9
72.5°	202.8	204.0	285.5	298.0	173.4	68.0	60.1	79.3	191.5	304.8	320.7
75°	14.7	15.9	38.5	44.2	32.9	17.0	18.1	21.5	40.8	68.0	51.0
77.5°	1.1	1.1	1.1	5.7	10.2	11.3	14.7	17.0	21.5	24.9	22.7
80°	1.1	0.0	1.1	4.5	7.9	11.3	13.6	15.9	17.0	19.3	17.0
82.5°	0.0	0.0	0.0	3.4	7.9	11.3	12.5	17.0	19.3	22.7	19.3
85°	0.0	0.0	0.0	3.4	7.9	12.5	11.3	5.7	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°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	3088.8	3044.6	2943.8	2892.8	2772.7	2755.7	2637.8	2618.6	2578.9	2557.4	2505.3
5°	2825.9	2772.7	2608.4	2470.1	2309.2	2197.1	2110.9	2032.8	1987.4	1945.5	1964.8
7.5°	2611.8	2456.5	2274.1	2043.0	1857.1	1737.0	1605.6	1497.9	1434.5	1391.4	1401.6
10°	2387.4	2286.6	2032.8	1773.3	1548.9	1463.9	1360.8	1278.1	1188.6	1111.6	1075.3
12.5°	2317.2	2167.6	1849.2	1585.2	1415.2	1332.5	1214.7	1119.5	1005.0	911.0	878.1
15°	2329.6	2185.7	1799.3	1517.2	1316.6	1173.9	1033.4	915.5	789.8	724.0	690.0
17.5°	2532.4	2283.2	1832.2	1445.8	1179.5	981.3	807.9	658.3	564.3	496.3	481.6
20°	2781.7	2493.9	1902.5	1393.7	1067.4	780.7	590.3	461.2	383.0	371.7	368.3
22.5°	3146.6	2838.4	2053.2	1358.6	930.3	608.5	404.5	335.4	313.9	311.6	312.7
25°	3656.5	3270.1	2217.4	1329.1	827.2	469.1	330.9	284.4	277.6	274.2	279.9
27.5°	3877.4	3530.7	2304.7	1265.7	733.1	422.6	326.3	282.1	262.9	257.2	260.6
30°	4150.5	3704.1	2441.8	1156.9	594.9	347.9	304.8	307.1	298.0	269.7	260.6
32.5°	4513.1	3920.5	2510.9	1079.8	531.4	287.8	223.2	205.1	228.9	233.4	241.3
35°	4745.4	4140.3	2546.0	1034.5	498.6	245.9	189.2	172.2	166.6	167.7	172.2
37.5°	5177.1	4437.2	2590.2	986.9	473.6	214.2	171.1	155.2	147.3	147.3	151.8
40°	5435.4	4672.8	2650.3	960.9	448.7	194.9	155.2	141.6	134.8	134.8	137.1
42.5°	5500.0	4789.6	2629.9	951.8	420.4	190.4	141.6	131.4	123.5	122.4	121.2
45°	5615.6	4967.4	2633.3	941.6	390.9	173.4	133.7	122.4	111.0	109.9	108.8
47.5°	5742.5	5095.5	2640.1	901.9	362.6	145.0	139.4	113.3	99.7	97.4	97.4
50°	5633.7	5197.5	2699.0	862.3	326.3	117.8	137.1	106.5	88.4	85.0	86.1
52.5°	5647.3	5317.6	2823.6	806.8	281.0	94.0	111.0	100.8	80.4	74.8	75.9
55°	5429.7	5190.7	2840.6	747.8	219.8	72.5	85.0	88.4	68.0	65.7	65.7
57.5°	4674.0	4395.2	2506.4	606.2	145.0	60.1	61.2	77.0	58.9	56.7	57.8
60°	3999.8	3528.4	2016.9	400.0	90.6	47.6	44.2	78.2	52.1	51.0	54.4
62.5°	3646.3	2899.6	1529.7	248.1	62.3	36.3	30.6	63.5	45.3	45.3	49.9
65°	2634.4	1947.8	889.5	130.3	44.2	28.3	22.7	36.3	37.4	38.5	40.8
67.5°	1631.6	983.5	375.1	63.5	29.5	19.3	14.7	22.7	24.9	24.9	27.2
70°	805.6	392.0	124.6	36.3	22.7	15.9	10.2	12.5	12.5	11.3	12.5
72.5°	249.3	117.8	31.7	22.7	15.9	10.2	5.7	4.5	2.3	0.0	1.1
75°	28.3	22.7	20.4	15.9	10.2	4.5	1.1	0.0	0.0	0.0	0.0
77.5°	17.0	19.3	19.3	15.9	10.2	3.4	0.0	0.0	0.0	0.0	0.0
80°	13.6	14.7	15.9	14.7	9.1	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.0	19.3	21.5	19.3	12.5	5.7	2.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.4	1.1	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°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	2483.7	2458.8	2493.9	2441.8	2440.7	2441.8	2427.1	2413.5	2435.0	2492.8	2498.5
5°	1895.7	1948.9	1965.9	2021.4	1990.8	1945.5	1954.6	1924.0	1998.8	2031.6	2005.6
7.5°	1380.1	1376.7	1491.1	1497.9	1512.7	1513.8	1511.5	1451.5	1390.3	1403.9	1444.7
10°	1070.8	1013.0	1068.5	1062.8	1099.1	1088.9	1103.6	1039.0	1060.6	1060.6	1086.6
12.5°	872.5	811.3	801.1	786.4	801.1	806.8	812.4	800.0	836.2	853.2	871.3
15°	666.3	632.3	623.2	594.9	599.4	615.3	628.9	634.5	623.2	649.3	651.5
17.5°	483.8	482.7	488.4	487.2	482.7	479.3	478.2	463.4	458.9	461.2	470.2
20°	367.1	376.2	395.4	414.7	424.9	412.4	395.4	370.5	360.3	362.6	363.7
22.5°	313.9	327.5	353.5	375.1	385.2	362.6	332.0	310.5	305.9	304.8	303.7
25°	284.4	300.3	319.5	326.3	325.2	311.6	288.9	279.9	277.6	275.3	265.1
27.5°	268.5	274.2	277.6	285.5	288.9	279.9	274.2	260.6	258.3	258.3	251.5
30°	259.5	256.1	260.6	254.9	259.5	252.7	253.8	253.8	248.1	250.4	250.4
32.5°	241.3	242.5	242.5	231.1	234.5	226.6	234.5	241.3	242.5	243.6	252.7
35°	176.8	197.2	207.4	207.4	210.8	205.1	204.0	196.0	185.8	175.6	171.1
37.5°	155.2	163.2	176.8	184.7	190.4	185.8	175.6	163.2	157.5	153.0	148.4
40°	138.2	145.0	154.1	163.2	174.5	168.8	153.0	147.3	140.5	140.5	136.0
42.5°	124.6	128.0	133.7	147.3	159.8	148.4	137.1	132.6	129.2	128.0	126.9
45°	112.2	113.3	119.0	130.3	145.0	133.7	122.4	116.7	117.8	119.0	117.8
47.5°	100.8	103.1	106.5	120.1	129.2	123.5	111.0	107.6	107.6	107.6	108.8
50°	87.2	92.9	99.7	111.0	117.8	114.4	104.2	99.7	97.4	97.4	98.6
52.5°	78.2	82.7	91.8	105.4	114.4	108.8	98.6	91.8	87.2	86.1	88.4
55°	68.0	75.9	90.6	100.8	113.3	107.6	96.3	88.4	80.4	79.3	79.3
57.5°	61.2	73.7	87.2	99.7	109.9	105.4	96.3	86.1	75.9	74.8	74.8
60°	57.8	71.4	85.0	96.3	109.9	103.1	95.2	83.8	72.5	72.5	71.4
62.5°	54.4	66.9	80.4	91.8	105.4	99.7	91.8	80.4	69.1	69.1	66.9
65°	45.3	57.8	66.9	77.0	91.8	86.1	78.2	70.3	61.2	58.9	60.1
67.5°	31.7	39.7	48.7	58.9	68.0	65.7	62.3	56.7	48.7	47.6	46.5
70°	15.9	21.5	29.5	39.7	47.6	45.3	43.1	38.5	34.0	32.9	32.9
72.5°	2.3	6.8	12.5	18.1	24.9	26.1	24.9	23.8	22.7	21.5	22.7
75°	0.0	0.0	0.0	4.5	10.2	12.5	14.7	17.0	17.0	14.7	18.1
77.5°	0.0	0.0	0.0	0.0	1.1	5.7	11.3	14.7	18.1	15.9	21.5
80°	0.0	0.0	0.0	0.0	1.1	6.8	11.3	15.9	18.1	15.9	22.7
82.5°	0.0	0.0	0.0	0.0	1.1	7.9	11.3	14.7	17.0	15.9	20.4
85°	0.0	0.0	0.0	0.0	3.4	6.8	4.5	2.3	1.1	1.1	3.4
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°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	2530.2	2610.6	2696.7	2729.6	2831.6	2908.6	2960.8	3072.9	3089.9	3091.1
5°	2032.8	2073.5	2220.8	2290.0	2441.8	2559.6	2685.4	2866.7	2987.9	2997.0
7.5°	1444.7	1558.0	1620.3	1800.5	1987.4	2172.1	2359.1	2569.8	2710.3	2713.7
10°	1162.5	1236.2	1347.2	1482.1	1639.6	1827.7	2076.9	2321.7	2464.5	2499.6
12.5°	935.9	1065.1	1192.0	1331.4	1451.5	1593.1	1861.7	2188.0	2305.8	2376.1
15°	720.6	838.5	988.1	1151.2	1287.2	1476.4	1782.3	2155.1	2353.4	2377.2
17.5°	531.4	636.8	775.0	929.1	1133.1	1401.6	1795.9	2321.7	2508.7	2548.3
20°	381.8	443.0	551.8	730.8	990.3	1314.4	1809.5	2490.5	2774.9	2842.9
22.5°	302.5	327.5	398.8	557.5	830.6	1222.6	1905.9	2813.5	3140.9	3239.5
25°	262.9	276.5	310.5	439.6	729.7	1213.5	2059.9	3201.0	3628.1	3699.5
27.5°	253.8	256.1	285.5	403.4	675.3	1153.5	2118.9	3476.3	3931.8	4004.3
30°	267.4	303.7	305.9	341.1	574.5	1034.5	2149.5	3742.6	4189.0	4242.3
32.5°	231.1	219.8	227.8	264.0	505.4	965.4	2207.3	3974.9	4482.5	4519.9
35°	160.9	168.8	187.0	228.9	441.9	892.9	2222.0	4230.9	4761.2	4799.8
37.5°	148.4	153.0	167.7	194.9	388.6	852.1	2201.6	4417.9	5050.2	5103.4
40°	138.2	143.9	151.8	176.8	349.0	806.8	2173.3	4586.7	5226.9	5358.4
42.5°	130.3	134.8	141.6	168.8	315.0	761.4	2133.6	4824.7	5385.6	5500.0
45°	121.2	128.0	136.0	164.3	295.7	730.8	2104.1	4809.9	5477.3	5538.5
47.5°	112.2	123.5	132.6	153.0	290.1	716.1	2116.6	4754.4	5402.6	5360.6
50°	103.1	117.8	133.7	126.9	276.5	686.6	2131.3	4830.3	5224.7	5216.7
52.5°	95.2	112.2	124.6	104.2	245.9	658.3	2274.1	4930.1	5350.4	5245.1
55°	83.8	100.8	99.7	83.8	199.4	636.8	2386.3	4932.3	5265.4	5305.1
57.5°	75.9	89.5	78.2	70.3	147.3	532.6	2203.9	4135.8	4507.4	4577.7
60°	70.3	87.2	58.9	55.5	96.3	384.1	1924.0	3203.2	3582.8	3715.4
62.5°	64.6	82.7	46.5	45.3	66.9	273.1	1581.8	2680.9	3087.7	3267.8
65°	56.7	58.9	37.4	35.1	47.6	147.3	963.1	1845.8	2308.1	2374.9
67.5°	46.5	45.3	30.6	28.3	31.7	71.4	424.9	924.6	1338.2	1450.3
70°	37.4	37.4	26.1	22.7	22.7	32.9	111.0	368.3	605.1	669.7
72.5°	27.2	28.3	20.4	18.1	17.0	15.9	18.1	73.7	158.6	202.8
75°	23.8	24.9	20.4	15.9	12.5	10.2	7.9	6.8	9.1	14.7
77.5°	26.1	26.1	21.5	14.7	11.3	7.9	4.5	2.3	2.3	1.1
80°	32.9	34.0	28.3	19.3	13.6	9.1	5.7	2.3	1.1	1.1
82.5°	35.1	38.5	31.7	23.8	17.0	10.2	5.7	1.1	0.0	0.0
85°	9.1	14.7	24.9	21.5	17.0	10.2	5.7	1.1	0.0	0.0
87.5°	0.0	1.1	3.4	3.4	4.5	4.5	3.4	1.1	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)