

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: P451189

Luminaire Tested: **GALN-SA2A-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7927 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

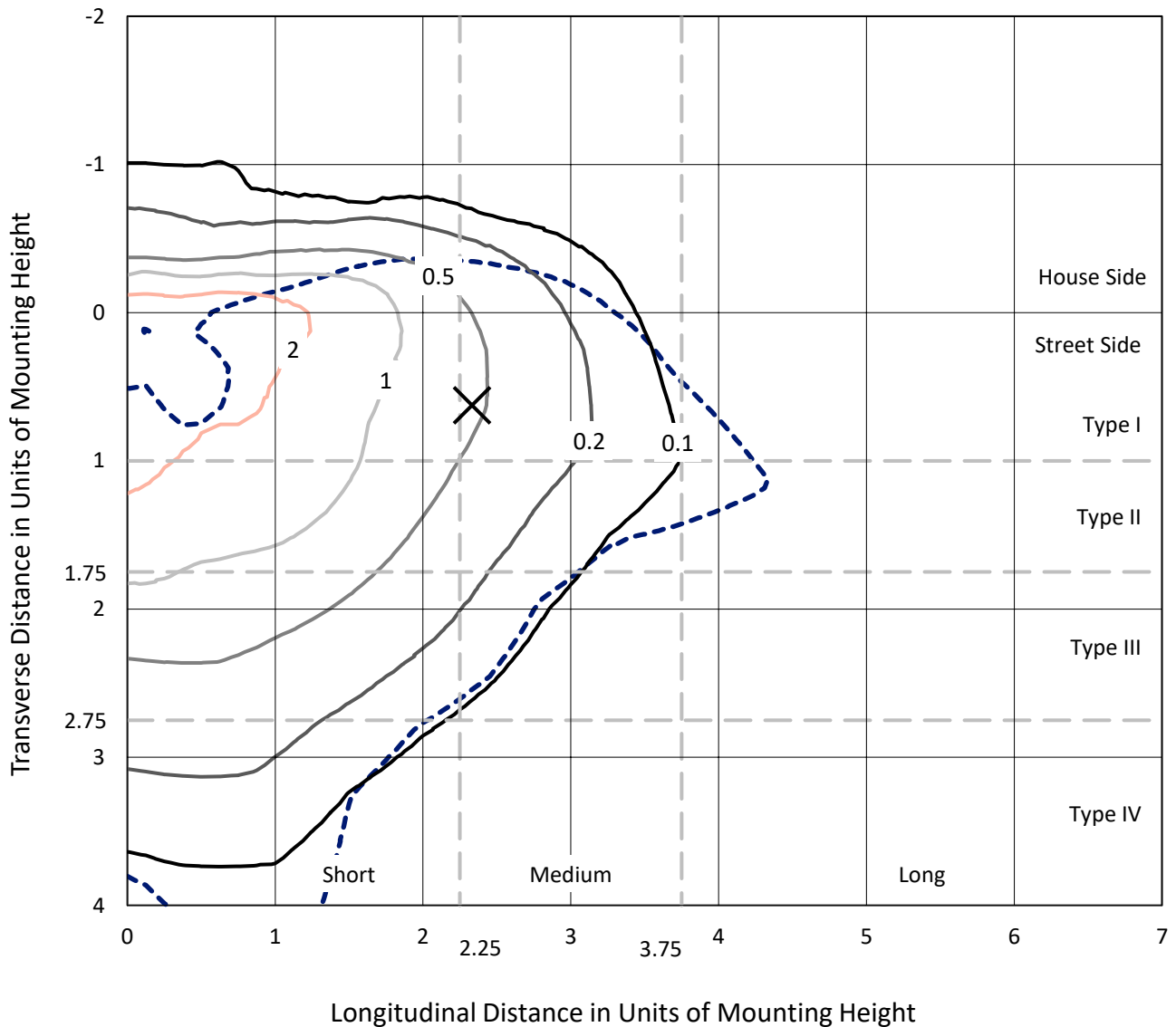
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

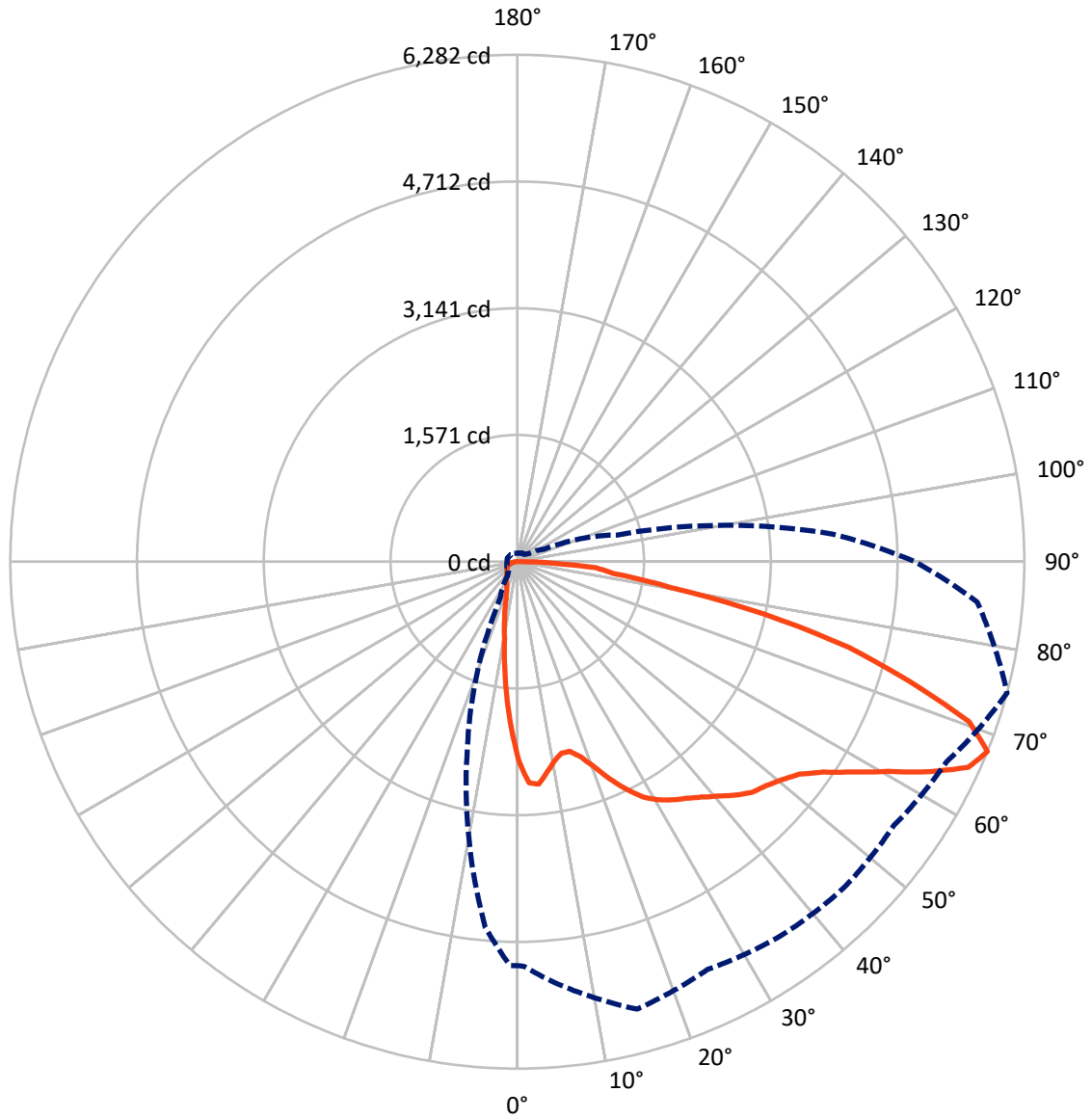
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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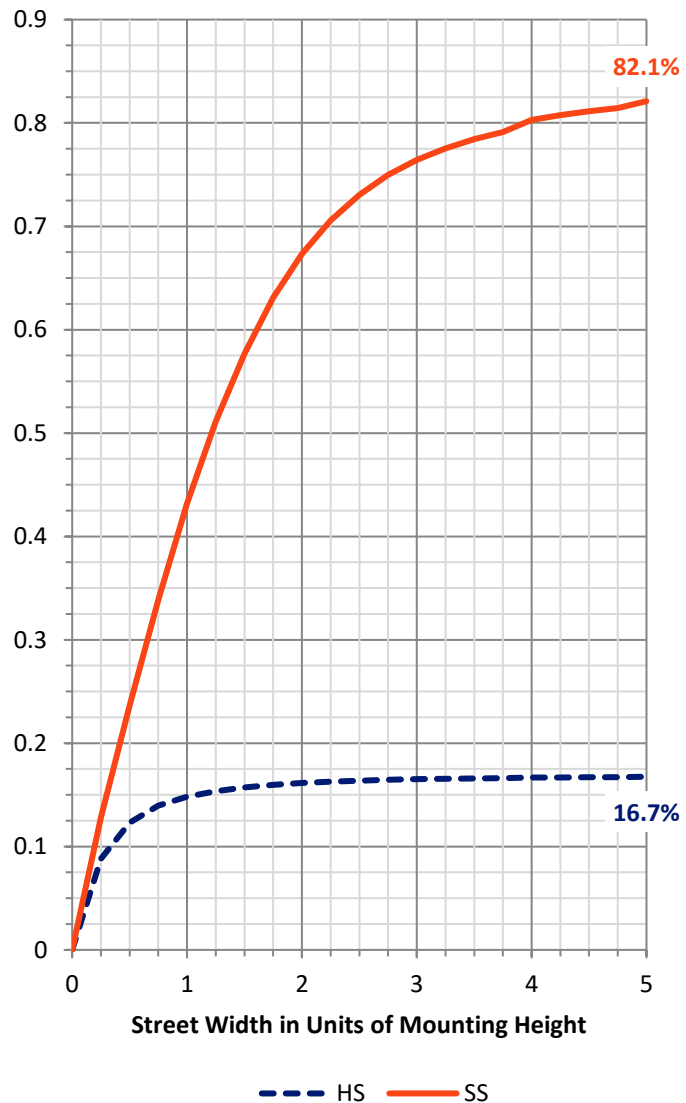
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.8	0.0	1339.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6587.2	0.0	6587.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	7927.0	0.0	7927.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.4
10°-20°	391.8	4.9
20°-30°	563.7	7.1
30°-40°	811.9	10.2
40°-50°	1140.5	14.4
50°-60°	1590.7	20.1
60°-70°	1891.2	23.9
70°-80°	1113.8	14.1
80°-90°	235.5	3.0
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°	7927.0	100.0
0°-180°	7927.0	100.0



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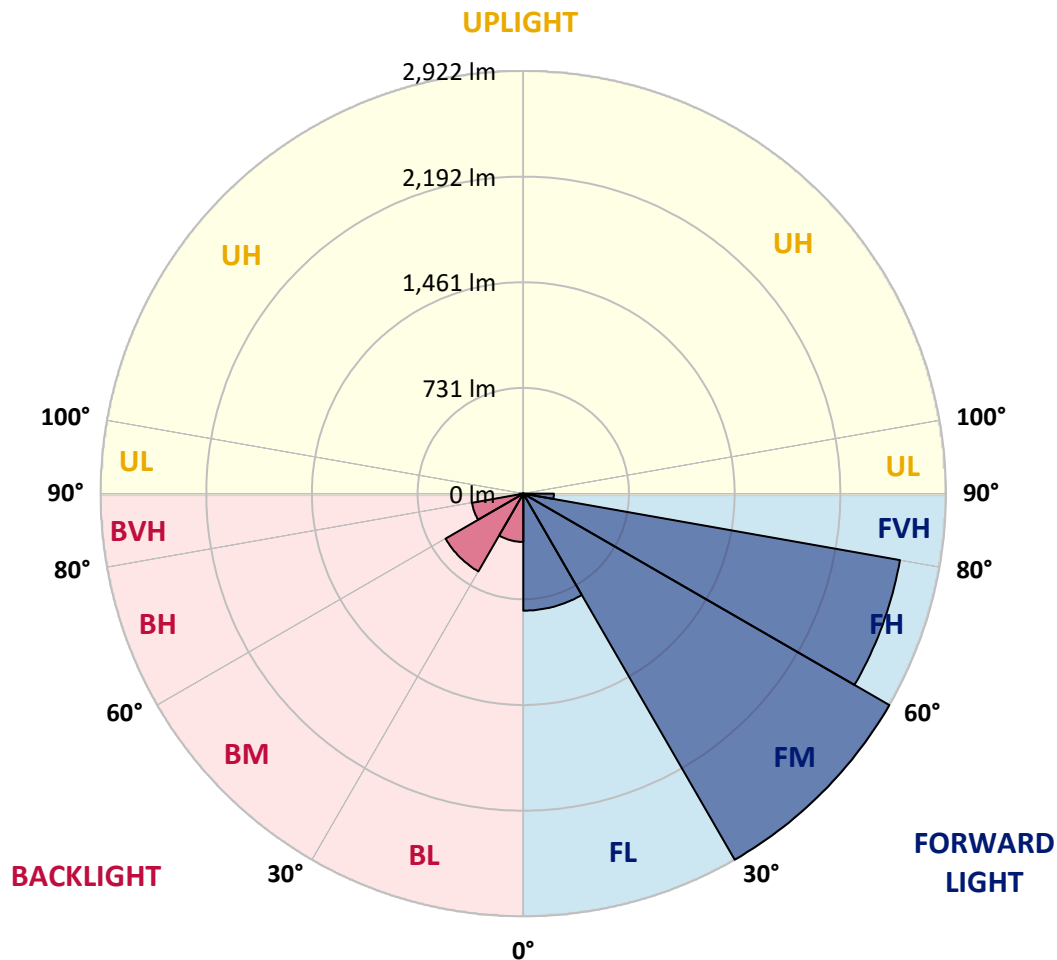
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.1	10.2			
FM (30°-60°)	2922.4	36.9			
FH (60°-80°)	2644.5	33.4			G2/5000
FVH (80°-90°)	211.2	2.7			G2/225
BL (0°-30°)	334.2	4.2	B1/500		
BM (30°-60°)	620.7	7.8	B1/1000		
BH (60°-80°)	360.5	4.5	B1/500		G1/500
BVH (80°-90°)	24.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2670.3	2673.8	2696.7	2763.3	2809.0	2825.8	2837.5	2815.6	2794.3	2742.4	2664.2
5°	2662.1	2683.0	2742.4	2891.9	3009.8	3060.7	3075.9	3010.3	2902.1	2768.9	2608.7
7.5°	2506.6	2534.5	2626.0	2876.6	3084.5	3203.5	3187.7	3069.3	2874.1	2636.7	2413.0
10°	2322.1	2353.1	2463.4	2766.3	3034.2	3197.9	3197.9	3053.5	2794.3	2512.2	2254.4
12.5°	2175.7	2208.2	2334.3	2653.0	2929.5	3084.5	3110.5	2986.4	2736.8	2433.4	2150.2
15°	2127.4	2158.9	2294.6	2584.3	2818.7	2913.2	2921.9	2881.2	2708.9	2439.0	2145.7
17.5°	2187.3	2228.0	2365.3	2604.7	2717.0	2722.6	2729.2	2761.2	2711.9	2541.1	2238.2
20°	2360.7	2404.4	2547.7	2670.3	2628.1	2570.1	2573.7	2656.0	2748.0	2709.9	2459.3
22.5°	2610.8	2648.9	2795.8	2785.6	2590.4	2471.0	2446.1	2561.0	2801.4	2920.4	2694.7
25°	2880.7	2925.4	3094.2	2957.0	2601.1	2412.0	2396.3	2505.0	2856.8	3117.1	2966.6
27.5°	3189.8	3233.5	3366.7	3129.8	2657.0	2407.4	2388.6	2500.0	2906.6	3299.1	3226.4
30°	3419.5	3459.7	3550.2	3275.2	2725.7	2437.9	2414.6	2540.1	2949.3	3423.6	3479.5
32.5°	3600.0	3641.7	3691.0	3365.7	2816.1	2493.4	2450.1	2613.3	3005.2	3518.7	3667.1
35°	3788.1	3837.4	3833.8	3446.0	2900.5	2557.4	2515.2	2719.1	3093.2	3601.5	3905.0
37.5°	4026.5	4046.3	4020.9	3518.1	3001.7	2672.8	2649.4	2876.1	3218.2	3701.7	4183.0
40°	4268.4	4308.1	4177.5	3605.6	3124.7	2889.9	2887.3	3108.4	3366.7	3819.1	4452.5
42.5°	4475.8	4509.4	4323.9	3681.8	3273.6	3154.7	3174.0	3420.0	3561.4	3955.3	4669.0
45°	4631.9	4661.9	4459.1	3755.5	3469.9	3460.7	3574.6	3754.0	3806.9	4077.8	4796.1
47.5°	4764.6	4793.5	4553.1	3867.4	3712.3	3826.2	4024.4	4102.2	4016.8	4148.0	4938.4
50°	4876.4	4885.0	4617.7	4000.6	4013.3	4274.0	4466.2	4516.5	4224.2	4248.6	5061.9
52.5°	4992.8	4981.6	4729.0	4168.3	4338.6	4699.0	4838.8	4891.1	4423.0	4372.7	5241.9
55°	5253.6	5264.3	4978.6	4379.8	4667.5	5116.3	5300.4	5250.0	4643.1	4600.9	5470.6
57.5°	5568.8	5559.6	5329.8	4710.7	5002.5	5504.7	5642.0	5561.1	4936.9	4914.5	5702.4
60°	5691.3	5703.5	5623.7	5066.5	5332.9	5844.8	5985.1	5859.5	5289.2	5279.0	5877.3
62.5°	5568.2	5636.9	5690.8	5383.2	5614.5	6094.9	6234.2	6090.8	5656.7	5730.4	5999.8
65°	5323.2	5338.0	5521.5	5651.6	5750.2	6136.0	6208.7	6132.5	5963.7	6141.6	5994.2
67.5°	5005.0	5017.7	5232.7	5739.6	5575.4	5668.4	5719.2	5696.9	5868.7	6282.4	5718.2
70°	4702.0	4691.9	4919.1	5515.4	4853.5	4712.2	4754.4	4684.3	5064.0	5938.3	5176.8
72.5°	4112.4	4149.0	4393.0	4892.2	3843.0	3613.2	3705.2	3523.7	3894.8	5085.8	4201.9
75°	3221.3	3229.9	3637.1	4105.8	2899.0	2536.6	2661.1	2585.4	2983.4	4242.5	2901.5
77.5°	2230.6	2211.2	2648.9	3135.9	2067.4	1856.9	1859.0	1822.9	2083.1	3123.7	1971.3
80°	1416.7	1387.2	1658.2	1937.2	1420.8	1519.9	1470.1	1468.6	1356.2	1927.1	1192.0
82.5°	765.5	798.1	1047.7	1214.4	1019.2	1174.7	1076.6	1045.1	930.8	1206.3	762.5
85°	348.7	379.2	558.7	826.0	774.2	782.8	523.1	617.1	770.1	979.6	407.2
87.5°	34.1	43.7	115.4	389.9	264.3	208.4	77.8	150.0	193.7	348.2	32.5
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°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2632.1	2605.7	2515.7	2441.5	2362.7	2302.7	2224.5	2172.1	2136.0	2081.6	2075.0
5°	2511.1	2446.6	2290.0	2130.4	1992.7	1889.0	1783.7	1687.1	1630.2	1612.4	1589.5
7.5°	2307.3	2198.5	1997.2	1814.2	1656.1	1501.6	1382.7	1298.3	1241.8	1208.8	1169.2
10°	2139.6	2013.5	1768.5	1544.3	1414.2	1318.1	1213.4	1122.9	1053.3	993.8	961.3
12.5°	2026.7	1884.4	1608.9	1426.9	1326.2	1224.1	1101.6	999.9	897.2	829.6	800.6
15°	1992.7	1842.2	1559.6	1368.4	1224.1	1090.4	953.1	820.4	718.8	654.7	633.4
17.5°	2076.0	1894.0	1559.0	1290.6	1104.1	944.5	768.6	644.1	539.8	492.1	476.8
20°	2231.6	1993.7	1563.6	1213.9	974.0	749.3	559.2	457.0	407.2	386.8	379.2
22.5°	2448.6	2145.7	1577.3	1138.2	831.6	575.4	418.9	367.0	349.2	345.7	344.1
25°	2716.0	2333.7	1623.6	1070.0	711.7	439.2	350.2	326.9	316.7	313.1	312.6
27.5°	2962.0	2576.7	1679.5	1011.6	595.8	378.7	316.7	296.9	286.7	286.2	287.2
30°	3184.2	2780.1	1726.3	946.0	507.8	336.5	294.8	275.0	265.3	264.8	267.9
32.5°	3376.3	2947.3	1760.9	881.4	459.0	310.6	275.0	253.7	245.5	244.0	245.5
35°	3581.7	3114.0	1745.1	831.1	431.1	289.2	260.3	239.4	229.8	225.2	225.2
37.5°	3816.0	3285.8	1718.2	789.4	418.4	271.4	247.6	227.2	217.6	213.0	212.5
40°	4071.7	3457.7	1681.0	752.3	405.6	260.8	238.9	217.6	205.9	201.3	200.3
42.5°	4297.4	3604.6	1650.5	727.9	384.8	262.8	231.3	210.4	195.7	189.6	189.1
45°	4493.6	3752.5	1645.0	713.7	367.5	259.8	229.3	204.9	187.6	181.0	179.9
47.5°	4647.2	3906.5	1677.0	705.6	348.7	243.5	242.5	201.3	180.5	173.3	172.3
50°	4834.2	4125.1	1750.2	688.8	331.4	228.2	256.2	200.8	174.9	165.7	163.2
52.5°	5083.3	4409.8	1849.3	658.8	306.5	214.0	244.5	200.8	168.3	159.1	156.1
55°	5460.0	4772.7	1946.4	616.6	271.4	195.2	220.6	194.7	158.6	150.5	148.4
57.5°	5709.6	5038.1	2008.4	558.1	227.7	181.5	190.1	185.0	148.9	140.3	140.3
60°	5722.3	5109.2	1978.9	484.4	200.3	168.8	165.2	186.6	140.3	131.1	130.1
62.5°	5575.9	4934.9	1825.4	418.4	185.5	155.0	149.4	163.7	131.7	122.5	121.0
65°	5347.1	4490.1	1559.0	386.8	177.4	142.8	134.7	134.2	122.5	113.9	111.8
67.5°	4926.7	3923.8	1281.0	368.5	173.3	129.1	121.5	118.9	111.8	104.7	103.7
70°	4307.1	3286.4	1027.3	360.9	171.3	114.9	108.8	105.7	99.6	94.0	93.5
72.5°	3350.9	2665.7	847.9	355.8	170.3	101.7	95.1	91.0	87.4	82.3	82.3
75°	2406.9	1961.1	647.1	320.8	157.6	87.4	80.3	77.8	72.7	68.6	69.6
77.5°	1517.4	1320.6	426.0	235.9	122.0	70.1	64.0	62.5	58.5	52.9	56.4
80°	1024.8	928.7	248.6	148.4	76.8	51.3	49.3	48.8	44.2	38.1	38.6
82.5°	697.4	684.2	129.1	84.4	44.2	30.0	29.0	30.0	24.9	20.3	20.3
85°	272.5	372.1	61.0	33.0	14.2	4.6	6.6	7.1	4.1	2.0	2.5
87.5°	5.1	38.1	1.5	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°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2064.8	2060.3	2067.9	2035.4	2042.0	2054.2	2060.3	2063.8	2114.1	2102.5	2134.5
5°	1610.9	1606.3	1635.8	1639.9	1655.1	1652.1	1666.8	1670.4	1688.7	1695.3	1740.0
7.5°	1171.7	1191.5	1225.1	1242.4	1268.3	1276.4	1268.8	1287.6	1249.5	1276.9	1285.1
10°	941.4	917.5	903.3	943.0	948.0	985.7	970.4	958.2	980.6	981.6	1002.9
12.5°	783.8	732.5	698.4	709.6	721.8	738.1	740.6	765.0	781.3	796.6	809.3
15°	614.6	596.8	565.8	550.5	567.8	574.4	590.2	610.5	627.8	632.4	649.6
17.5°	471.7	474.8	469.7	460.5	471.2	476.3	477.3	477.8	482.4	479.4	504.8
20°	379.7	390.4	403.1	405.1	408.7	411.2	406.7	389.4	389.9	400.6	408.7
22.5°	343.6	345.7	359.9	364.5	375.7	371.1	357.9	349.7	348.7	351.3	355.3
25°	315.2	318.2	328.4	335.5	344.1	336.0	326.3	318.7	317.7	320.2	324.3
27.5°	289.7	294.3	303.5	310.6	318.7	311.1	301.9	295.3	294.8	294.3	296.9
30°	269.4	274.5	281.1	289.2	294.8	288.2	279.6	276.0	275.5	274.5	275.5
32.5°	249.1	257.2	263.8	267.9	273.5	268.4	261.8	259.8	256.2	253.1	251.6
35°	226.2	234.8	245.0	250.1	255.7	250.6	246.0	237.4	231.3	230.8	231.8
37.5°	213.0	216.5	224.7	233.3	238.9	236.4	227.7	219.1	217.6	217.6	218.6
40°	201.3	202.8	206.4	217.6	227.7	220.1	209.4	206.9	206.9	206.4	206.9
42.5°	189.6	191.1	191.1	199.8	216.0	203.8	195.7	195.7	195.7	196.2	197.7
45°	178.9	179.4	178.9	185.0	200.3	190.1	184.5	186.0	187.1	188.1	189.1
47.5°	169.8	170.3	169.8	174.9	182.5	178.4	175.4	177.4	179.4	181.0	182.0
50°	161.6	161.1	162.2	165.2	168.8	169.8	167.7	170.8	171.8	173.8	176.4
52.5°	154.5	154.0	155.0	156.6	161.6	161.6	161.6	164.2	166.2	168.3	171.8
55°	146.4	146.9	148.4	150.5	157.1	156.1	156.6	158.6	160.6	163.7	165.7
57.5°	138.8	139.8	141.8	144.9	151.5	151.0	151.5	152.5	155.0	156.6	158.6
60°	130.1	132.2	134.7	136.7	143.3	142.8	145.4	147.4	148.9	148.9	150.0
62.5°	121.5	124.5	127.1	128.6	135.7	136.2	139.8	141.3	142.3	141.3	142.8
65°	112.8	117.4	118.4	120.5	127.6	128.1	132.2	135.7	134.7	133.7	136.2
67.5°	104.2	109.8	109.3	111.8	118.9	120.0	123.5	129.6	127.6	126.6	128.6
70°	94.5	98.6	99.1	100.6	110.3	108.8	114.4	120.0	118.4	118.9	118.9
72.5°	83.9	87.4	87.4	90.5	100.6	98.1	102.7	108.8	108.8	108.3	108.3
75°	71.2	73.2	75.2	79.8	90.5	87.4	90.5	96.1	97.1	96.1	96.1
77.5°	57.4	60.5	61.5	67.6	75.2	74.7	77.8	80.3	82.3	81.3	81.3
80°	40.7	43.7	47.8	54.4	59.0	60.5	62.0	64.0	65.1	65.1	66.1
82.5°	22.9	27.4	31.0	37.6	39.6	47.3	46.8	48.3	46.8	41.2	45.7
85°	5.1	9.7	13.7	17.3	19.8	27.4	29.0	32.5	26.9	24.9	24.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.1	8.1	11.2	9.7	8.1	8.1
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°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2161.4	2205.6	2259.0	2351.0	2415.6	2485.2	2555.4	2630.1	2649.9	2670.3
5°	1752.2	1839.1	1886.4	2009.9	2139.6	2304.3	2439.0	2586.4	2647.9	2662.1
7.5°	1327.2	1386.2	1510.2	1635.3	1795.9	1968.8	2175.1	2404.9	2476.6	2506.6
10°	1052.2	1132.6	1241.3	1375.5	1516.3	1702.4	1935.2	2203.6	2305.3	2322.1
12.5°	895.7	985.1	1103.6	1245.4	1378.6	1518.9	1753.7	2030.8	2139.6	2175.7
15°	716.2	824.5	961.3	1110.7	1255.6	1409.1	1647.0	1959.6	2085.2	2127.4
17.5°	562.7	650.2	798.1	960.2	1132.1	1326.2	1624.6	1993.7	2148.2	2187.3
20°	430.6	493.1	617.6	788.9	990.2	1244.4	1630.2	2122.3	2307.3	2360.7
22.5°	372.1	404.1	479.9	643.0	868.2	1173.2	1653.1	2298.7	2521.8	2610.8
25°	337.0	353.8	396.5	503.2	751.8	1104.1	1705.4	2536.1	2821.7	2880.7
27.5°	307.0	319.2	345.7	422.4	646.1	1040.0	1766.4	2799.4	3101.8	3189.8
30°	278.6	294.8	319.7	375.1	578.5	981.6	1843.2	3012.9	3337.7	3419.5
32.5°	256.7	273.0	295.8	342.1	521.0	920.1	1889.0	3200.4	3530.3	3600.0
35°	238.9	252.6	276.5	315.7	477.3	873.3	1879.8	3349.4	3716.9	3788.1
37.5°	226.2	237.9	261.8	290.8	444.3	824.5	1875.2	3546.1	3944.1	4026.5
40°	214.5	226.7	248.6	274.5	411.2	767.1	1877.8	3741.3	4186.1	4268.4
42.5°	205.4	219.1	236.9	269.9	377.2	720.8	1877.8	3911.1	4396.5	4475.8
45°	197.7	212.5	229.8	269.4	350.2	685.7	1865.1	4057.0	4564.3	4631.9
47.5°	191.1	207.4	232.3	260.3	343.6	660.3	1853.9	4173.9	4701.0	4764.6
50°	186.6	205.9	247.0	249.6	345.7	652.7	1907.8	4321.3	4821.5	4876.4
52.5°	183.0	206.4	246.5	233.8	342.1	657.8	2020.1	4551.6	4988.7	4992.8
55°	175.9	205.9	233.8	216.0	327.4	666.4	2164.5	4886.1	5250.5	5253.6
57.5°	168.8	200.3	217.1	200.8	297.4	666.4	2338.3	5202.8	5566.2	5568.8
60°	161.6	208.4	190.6	187.6	258.2	654.2	2521.8	5342.0	5665.3	5691.3
62.5°	154.5	209.9	170.3	175.9	229.8	624.7	2658.6	5188.0	5531.1	5568.2
65°	146.4	169.3	157.1	163.7	215.0	575.4	2615.4	4905.9	5279.0	5323.2
67.5°	136.7	143.3	142.8	151.0	209.9	502.7	2387.6	4549.0	5007.6	5005.0
70°	125.0	128.6	130.1	138.8	200.3	446.3	1989.6	4086.0	4645.1	4702.0
72.5°	112.8	115.9	117.4	125.0	190.6	414.3	1544.3	3448.0	4023.4	4112.4
75°	99.6	101.7	103.7	110.3	180.5	367.0	1100.0	2632.1	3081.5	3221.3
77.5°	85.9	85.9	88.4	95.1	152.0	303.0	738.1	1846.3	2087.7	2230.6
80°	69.6	70.1	69.1	76.2	111.8	207.4	419.4	1233.2	1389.3	1416.7
82.5°	53.4	51.8	52.4	55.9	83.4	141.3	223.7	766.1	780.8	765.5
85°	33.5	33.5	32.5	36.6	53.4	73.7	122.0	469.2	366.5	348.7
87.5°	13.7	11.2	12.7	14.7	25.4	30.0	47.8	96.6	37.1	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)