

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: P526990

Luminaire Tested: **GALN-SA2A-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5728 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

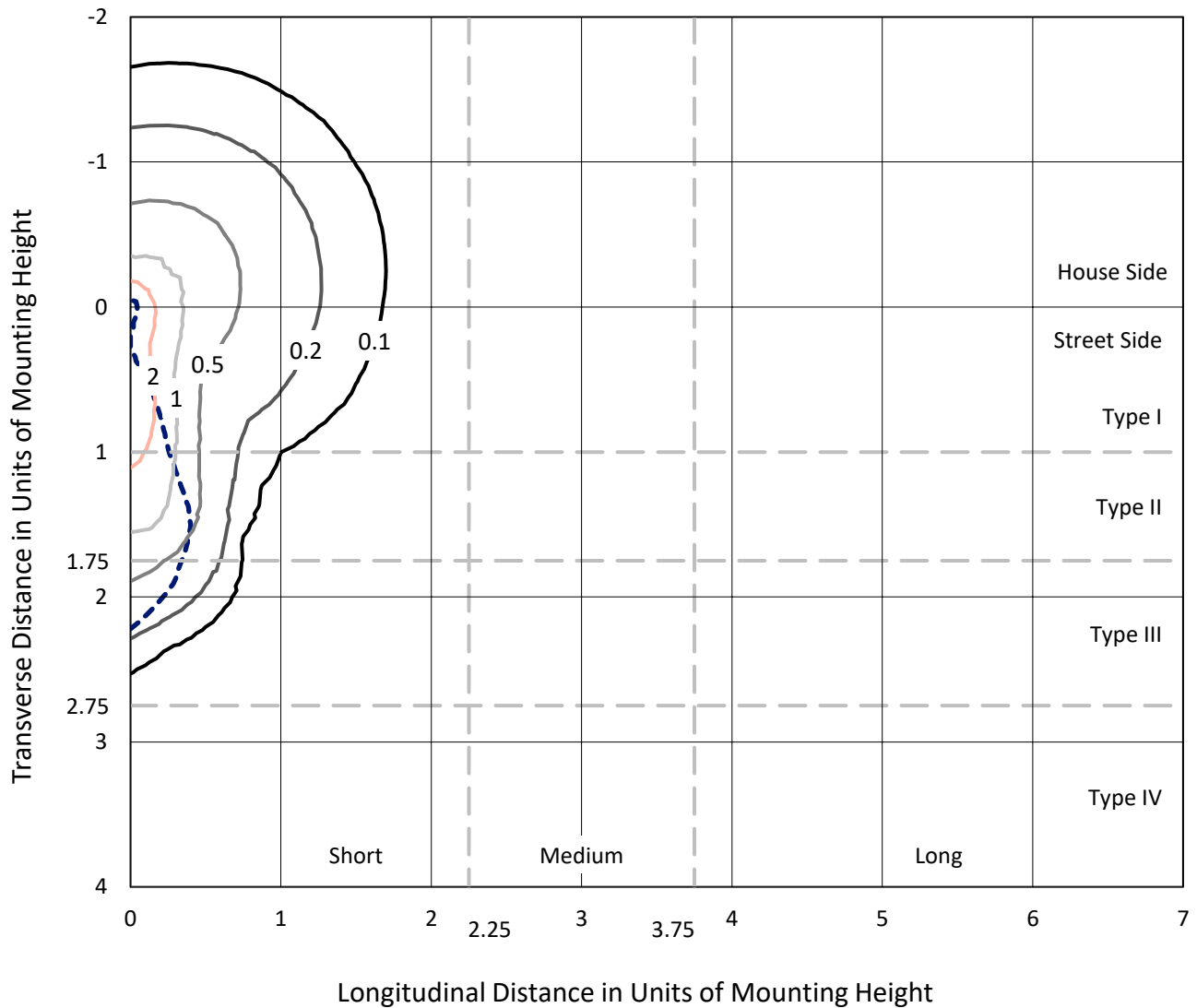
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

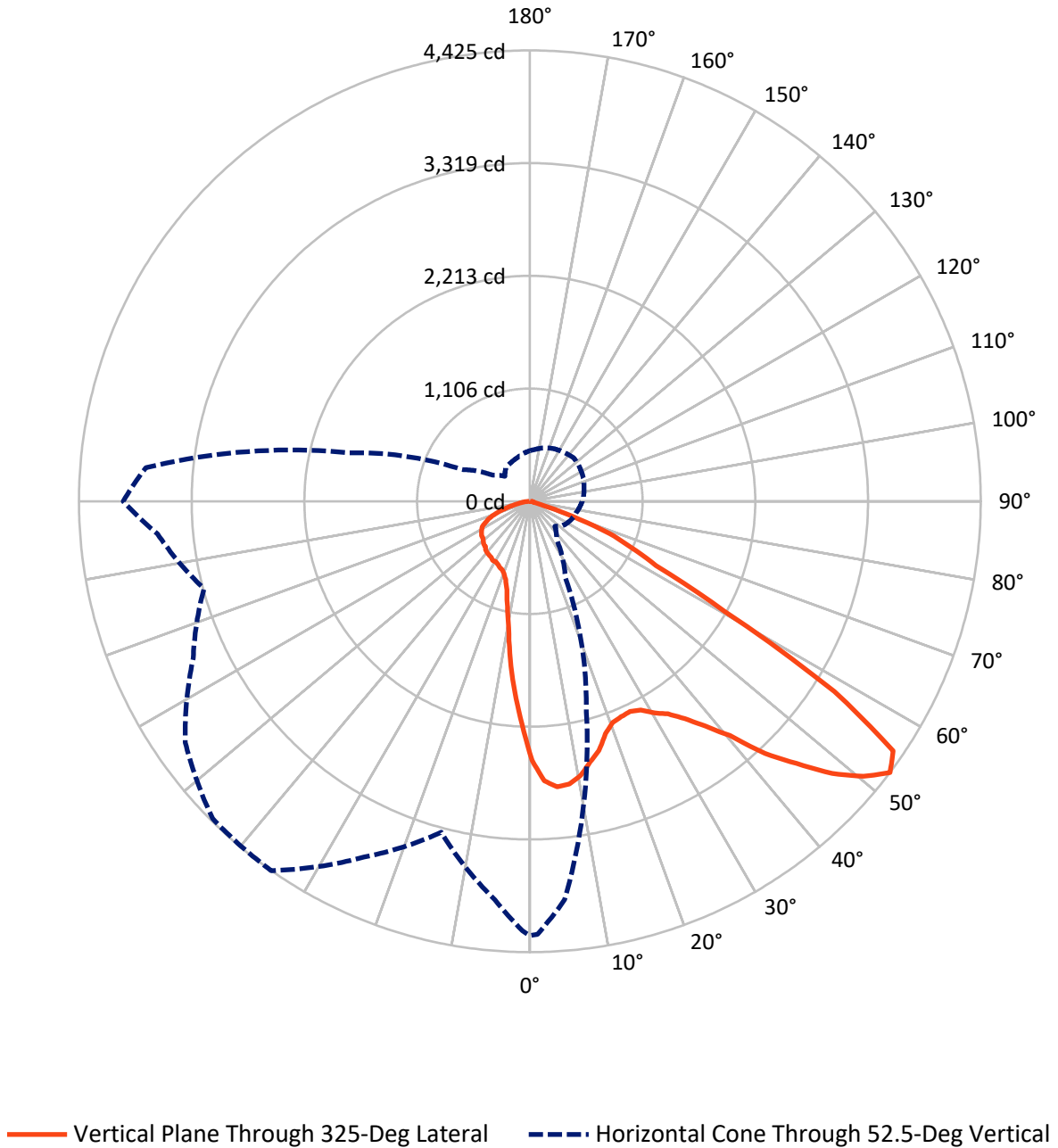
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.7	0.0	1726.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	4001.2	0.0	4001.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	5728.0	0.0	5728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	3.4
10°-20°	420.4	7.3
20°-30°	635.2	11.1
30°-40°	918.0	16.0
40°-50°	1221.6	21.3
50°-60°	1366.4	23.9
60°-70°	770.1	13.4
70°-80°	171.7	3.0
80°-90°	30.6	0.5
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°	5728.0	100.0
0°-180°	5728.0	100.0

Coefficient of Utilization



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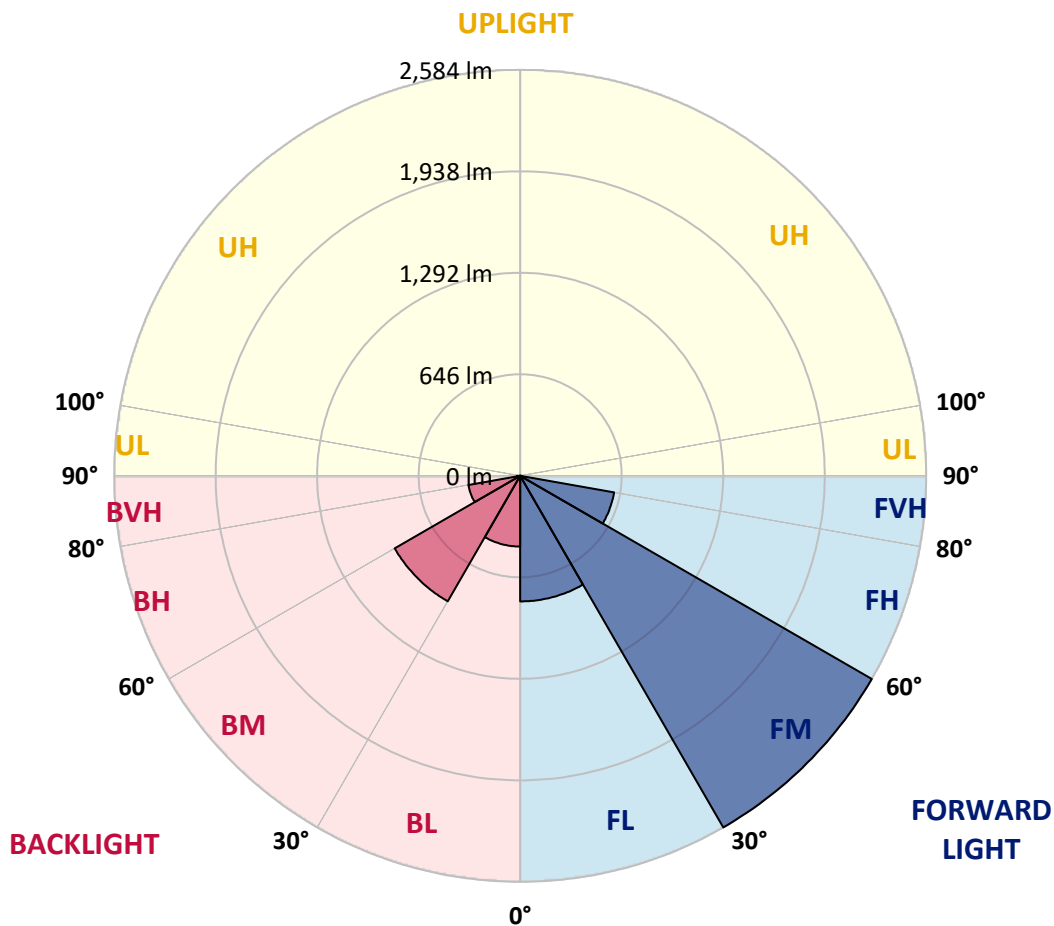
CATALOG NUMBER: GALN-SA2A-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.3	14.0			
FM (30°-60°)	2583.8	45.1			
FH (60°-80°)	607.1	10.6			G0/660
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	450.3	7.9	B1/500		
BM (30°-60°)	922.3	16.1	B1/1000		
BH (60°-80°)	334.7	5.8	B1/500		G1/500
BVH (80°-90°)	19.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2584.5	2626.0	2581.1	2501.4	2445.0	2393.5	2339.5	2328.8	2258.2	2245.7	2194.3
5°	2437.5	2428.4	2373.6	2269.0	2153.6	2049.0	1971.8	1897.0	1846.4	1787.5	1783.3
7.5°	2259.0	2205.9	2174.3	2015.8	1873.0	1708.6	1638.0	1524.3	1488.6	1435.4	1408.0
10°	2099.6	2060.6	1986.7	1828.1	1628.9	1520.1	1444.6	1383.1	1341.6	1286.8	1217.9
12.5°	2020.7	2005.0	1922.0	1676.2	1528.4	1412.2	1359.1	1299.3	1228.7	1140.7	1106.7
15°	2034.9	1981.7	1918.6	1647.1	1442.9	1330.8	1246.2	1171.4	1080.9	997.1	948.1
17.5°	2140.3	2099.6	1973.4	1665.4	1410.5	1248.6	1095.1	984.6	903.3	827.7	793.7
20°	2347.9	2288.9	2146.9	1688.7	1340.8	1134.1	958.1	821.9	734.7	694.9	683.3
22.5°	2577.8	2543.0	2316.3	1741.0	1285.2	1027.8	812.8	676.6	644.2	633.5	655.0
25°	2857.6	2767.1	2579.5	1826.5	1242.0	937.3	689.9	614.4	597.8	608.5	633.5
27.5°	3070.1	3046.1	2763.8	1907.0	1183.1	828.6	621.0	571.2	576.2	587.0	610.2
30°	3322.5	3200.5	2942.3	1962.6	1129.9	753.8	572.8	559.6	564.5	582.8	594.4
32.5°	3474.5	3428.8	3054.4	2046.5	1068.5	689.1	535.5	523.0	530.5	557.9	585.3
35°	3667.9	3577.4	3193.0	2068.1	1025.3	663.3	508.9	499.8	517.2	536.3	567.0
37.5°	3893.7	3831.4	3384.8	2053.1	1002.1	636.8	486.5	482.4	494.8	521.4	557.1
40°	4027.4	4008.3	3485.2	2062.3	965.5	613.5	460.8	465.8	491.5	512.2	547.1
42.5°	4156.1	4031.5	3633.9	2058.9	942.3	582.0	463.3	457.4	477.4	501.5	534.7
45°	4184.3	4060.6	3668.7	2035.7	914.1	551.3	444.2	446.7	470.7	500.6	522.2
47.5°	4166.0	4074.7	3733.5	2029.0	887.5	529.7	415.9	445.8	459.9	484.0	514.7
50°	4153.6	4148.6	3788.3	2060.6	851.8	495.6	381.9	435.0	449.1	473.2	506.4
52.5°	4263.2	4252.4	3925.3	2143.6	823.6	459.1	347.0	407.6	441.7	464.9	497.3
55°	4329.6	4282.3	4160.2	2245.7	776.3	411.0	323.0	373.6	423.4	444.2	477.4
57.5°	3894.5	3862.2	3763.4	2096.3	696.6	347.9	293.1	338.7	398.5	430.9	464.9
60°	3240.3	3189.7	2936.5	1781.6	513.9	270.7	274.8	311.3	391.9	404.3	444.2
62.5°	3055.2	2929.8	2585.3	1433.8	394.4	232.5	246.6	286.4	357.0	377.7	417.6
65°	2424.2	2331.2	1849.7	1035.3	264.0	201.7	225.0	258.2	308.0	348.7	385.2
67.5°	1517.6	1428.8	987.1	489.8	184.3	172.7	200.9	235.8	276.5	313.0	353.7
70°	792.9	695.7	455.8	176.8	127.0	141.1	167.7	200.9	240.8	270.7	302.2
72.5°	295.6	239.9	148.6	76.4	88.0	107.9	136.2	160.2	188.5	225.0	242.4
75°	45.7	39.0	38.2	46.5	59.8	78.0	97.1	121.2	146.1	169.4	181.0
77.5°	21.6	20.8	23.2	30.7	39.9	55.6	70.6	93.8	113.7	128.7	135.3
80°	14.1	13.3	14.9	20.8	29.9	41.5	56.5	72.2	90.5	102.9	101.3
82.5°	8.3	9.1	9.1	14.1	20.8	29.9	40.7	54.8	67.2	78.0	71.4
85°	5.0	4.2	4.2	8.3	14.1	24.1	34.0	23.2	24.1	24.1	27.4
87.5°	1.7	1.7	1.7	0.8	1.7	1.7	2.5	4.2	5.0	5.8	7.5
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°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2192.6	2218.3	2209.2	2176.8	2201.7	2205.9	2189.3	2246.6	2257.4	2239.9	2244.9
5°	1777.5	1784.1	1799.1	1830.6	1853.0	1879.6	1879.6	1881.3	1858.9	1915.3	1898.7
7.5°	1384.8	1389.0	1406.4	1473.6	1492.7	1543.4	1565.0	1550.0	1505.2	1486.1	1501.9
10°	1195.5	1171.4	1165.6	1173.9	1217.1	1238.7	1256.9	1252.0	1244.5	1229.5	1212.9
12.5°	1069.3	1051.9	1037.8	1017.8	1020.3	1041.1	1055.2	1043.6	1046.9	1050.2	1055.2
15°	932.3	919.9	912.4	882.5	879.2	893.3	898.3	904.9	917.4	918.2	912.4
17.5°	787.0	776.3	792.9	809.5	797.8	798.7	807.8	813.6	810.3	795.3	787.9
20°	687.4	699.0	715.6	731.4	743.9	751.3	754.7	745.5	734.7	704.0	703.2
22.5°	658.4	673.3	687.4	711.5	723.1	742.2	724.8	704.0	689.1	674.1	656.7
25°	636.8	649.2	677.5	686.6	709.0	724.8	712.3	691.6	665.8	644.2	631.0
27.5°	621.0	635.1	653.4	678.3	695.7	704.9	692.4	684.1	657.5	631.8	612.7
30°	611.0	626.0	659.2	679.9	694.9	702.4	680.8	670.8	651.7	630.1	613.5
32.5°	604.4	617.7	645.9	672.5	682.4	682.4	685.8	674.1	647.6	611.0	596.9
35°	582.8	601.1	624.3	655.0	673.3	684.1	667.5	654.2	636.8	599.4	573.7
37.5°	570.4	582.8	612.7	641.8	657.5	669.2	662.5	639.3	616.0	585.3	564.5
40°	557.1	577.0	603.6	631.0	648.4	660.0	655.0	627.6	599.4	570.4	556.2
42.5°	547.9	561.2	588.6	619.3	640.1	662.5	647.6	613.5	593.6	553.8	538.0
45°	540.5	562.1	591.1	603.6	625.2	648.4	621.8	601.1	577.8	548.8	535.5
47.5°	531.3	551.3	570.4	603.6	613.5	624.3	619.3	586.1	566.2	534.7	525.5
50°	528.0	535.5	570.4	588.6	602.7	613.5	600.2	575.3	556.2	523.9	503.9
52.5°	514.7	528.8	551.3	575.3	592.8	606.1	584.5	568.7	543.0	508.9	496.5
55°	498.1	506.4	546.3	571.2	580.3	589.5	581.2	555.4	528.8	494.0	481.5
57.5°	476.5	495.6	528.0	562.9	574.5	579.5	566.2	545.5	512.2	481.5	461.6
60°	454.1	474.1	509.8	538.0	549.6	567.9	547.9	535.5	497.3	463.3	441.7
62.5°	431.7	454.1	480.7	516.4	526.4	533.8	528.8	511.4	480.7	442.5	415.9
65°	405.1	421.7	455.0	473.2	479.9	497.3	479.9	473.2	445.8	409.3	386.9
67.5°	365.3	379.4	408.5	425.9	430.9	438.4	437.5	430.1	399.3	374.4	354.5
70°	319.6	332.1	350.4	371.1	373.6	382.7	374.4	372.8	352.8	318.8	308.0
72.5°	256.5	268.2	292.2	301.4	302.2	305.5	301.4	295.6	290.6	254.9	244.1
75°	196.8	203.4	215.0	223.3	223.3	227.5	225.0	219.2	205.9	183.5	172.7
77.5°	137.0	143.6	158.6	163.6	162.7	164.4	156.9	151.1	131.2	119.6	110.4
80°	99.6	103.8	111.2	114.6	115.4	117.9	108.8	103.8	92.2	78.9	74.7
82.5°	72.2	74.7	75.5	79.7	79.7	75.5	73.1	68.1	59.8	51.5	48.2
85°	29.9	30.7	31.5	36.5	37.4	44.8	41.5	39.0	34.0	29.1	26.6
87.5°	7.5	8.3	10.8	9.1	10.8	10.8	11.6	13.3	13.3	10.8	10.8
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°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2264.0	2270.6	2355.3	2366.1	2407.6	2450.0	2535.5	2596.9	2646.7	2679.1	2688.2
5°	1916.1	1958.5	1997.5	2060.6	2117.9	2199.2	2293.1	2409.3	2555.4	2630.1	2660.0
7.5°	1500.2	1550.0	1606.5	1667.9	1751.8	1897.9	2023.2	2157.7	2344.5	2421.7	2538.8
10°	1224.6	1280.2	1354.9	1402.2	1503.5	1643.0	1789.1	1944.4	2122.9	2234.1	2369.4
12.5°	1082.6	1128.3	1197.2	1296.8	1372.3	1462.8	1571.6	1767.5	2023.2	2128.7	2221.7
15°	925.7	976.3	1056.0	1166.5	1256.9	1364.9	1486.9	1700.3	1972.6	2135.3	2214.2
17.5°	796.2	832.7	916.6	1012.0	1115.8	1233.7	1408.9	1697.0	2025.7	2234.1	2362.8
20°	706.5	711.5	757.2	838.5	979.7	1133.2	1360.7	1680.4	2195.9	2404.3	2567.0
22.5°	650.1	645.1	645.9	714.8	813.6	1034.4	1285.2	1736.8	2389.4	2675.0	2784.5
25°	621.8	608.5	600.2	615.2	704.9	917.4	1227.9	1811.5	2597.7	2898.3	3032.8
27.5°	606.9	583.6	567.0	569.5	635.1	858.4	1192.2	1843.9	2804.5	3209.6	3256.9
30°	601.1	572.0	547.9	539.6	582.8	776.3	1115.8	1899.5	2989.6	3380.6	3421.3
32.5°	580.3	544.6	521.4	513.9	531.3	704.0	1061.0	1939.4	3153.2	3566.6	3552.5
35°	556.2	526.4	497.3	483.2	495.6	657.5	1017.0	1920.3	3345.8	3711.1	3703.6
37.5°	553.8	514.7	490.7	467.4	466.6	600.2	957.2	1938.6	3468.6	3970.1	3868.0
40°	532.2	507.3	475.7	456.6	445.8	571.2	899.1	1895.4	3648.8	4074.7	3974.2
42.5°	533.0	495.6	468.2	445.8	435.0	528.8	859.3	1883.8	3711.9	4244.9	4024.1
45°	519.7	483.2	459.9	433.4	427.6	496.5	821.1	1829.8	3823.1	4253.2	3961.8
47.5°	506.4	474.1	449.1	417.6	404.3	484.8	791.2	1785.0	3765.0	4175.2	3875.4
50°	497.3	459.9	436.7	414.3	376.9	464.9	752.2	1774.2	3683.7	4069.7	3715.2
52.5°	481.5	448.3	424.2	406.8	347.0	446.7	737.2	1837.3	3783.3	3990.8	3668.7
55°	466.6	432.5	401.8	367.8	322.1	398.5	695.7	1896.2	3928.6	4172.7	3879.6
57.5°	450.8	418.4	385.2	344.5	298.0	348.7	652.5	1907.0	3656.3	3856.4	3682.8
60°	430.1	388.5	363.6	310.5	272.3	288.9	517.2	1681.2	2836.0	3220.4	3226.2
62.5°	406.8	362.0	340.4	278.1	245.7	249.1	421.7	1413.0	2300.5	2665.8	2824.4
65°	376.1	332.9	307.2	257.4	226.6	215.9	308.8	1035.3	1747.6	2162.7	2342.9
67.5°	336.2	295.6	263.2	224.2	202.6	185.1	210.9	582.8	1032.0	1452.0	1506.8
70°	293.9	259.0	225.0	192.6	168.5	156.1	154.4	258.2	493.1	781.2	889.2
72.5°	231.6	206.7	179.3	155.3	139.5	121.2	110.4	107.1	166.9	318.0	439.2
75°	166.0	145.3	129.5	113.7	102.1	92.2	83.9	76.4	69.7	79.7	109.6
77.5°	104.6	97.1	84.7	80.5	73.9	71.4	68.1	63.9	58.9	55.6	55.6
80°	70.6	65.6	61.4	60.6	58.1	57.3	58.1	54.0	49.0	44.8	46.5
82.5°	47.3	46.5	45.7	44.8	45.7	46.5	48.2	47.3	43.2	40.7	41.5
85°	28.2	29.9	31.5	33.2	36.5	32.4	26.6	22.4	19.9	18.3	17.4
87.5°	10.8	14.9	13.3	12.5	13.3	12.5	11.6	10.8	9.1	8.3	8.3
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°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2748.8	2765.4	2779.6	2776.2	2747.2	2708.2	2692.4	2611.9	2595.3	2584.5
5°	2786.2	2882.5	2903.3	2890.8	2815.3	2719.8	2626.8	2508.9	2440.0	2437.5
7.5°	2717.3	2836.0	2873.4	2901.6	2801.1	2635.1	2475.7	2298.9	2255.7	2259.0
10°	2542.1	2731.4	2823.6	2852.6	2737.2	2593.6	2372.8	2193.4	2101.3	2099.6
12.5°	2445.0	2593.6	2619.3	2660.0	2626.0	2480.7	2313.0	2112.1	2022.4	2020.7
15°	2358.6	2456.6	2464.1	2521.4	2539.6	2441.7	2328.8	2114.6	2042.3	2034.9
17.5°	2434.2	2366.1	2337.9	2345.4	2399.3	2435.0	2420.1	2255.7	2181.8	2140.3
20°	2484.8	2332.9	2247.4	2255.7	2319.6	2450.0	2556.2	2459.9	2342.9	2347.9
22.5°	2620.2	2337.9	2204.2	2195.1	2296.4	2528.0	2709.8	2718.1	2605.2	2577.8
25°	2822.7	2395.2	2190.9	2188.4	2285.6	2611.9	2889.2	3023.6	2908.2	2857.6
27.5°	2985.5	2484.8	2232.5	2240.8	2319.6	2679.9	3041.9	3220.4	3132.4	3070.1
30°	3128.3	2577.8	2290.6	2252.4	2410.9	2715.6	3107.5	3444.6	3374.0	3322.5
32.5°	3187.2	2709.8	2382.7	2319.6	2486.5	2758.8	3243.7	3662.1	3601.5	3474.5
35°	3286.8	2783.7	2432.5	2427.6	2618.5	2862.6	3307.6	3805.7	3780.8	3667.9
37.5°	3366.5	2858.4	2609.4	2554.6	2799.5	3036.9	3410.5	4004.1	3946.8	3893.7
40°	3428.0	2992.1	2774.6	2846.8	3022.0	3195.5	3505.2	4016.6	4181.8	4027.4
42.5°	3371.5	3111.6	3046.1	3218.7	3384.8	3376.5	3516.0	4112.9	4236.6	4156.1
45°	3357.4	3314.2	3475.3	3632.2	3670.4	3526.8	3438.8	4006.6	4220.0	4184.3
47.5°	3323.4	3513.5	3794.1	4049.8	3991.7	3627.2	3346.6	3987.5	4230.0	4166.0
50°	3311.7	3556.6	4029.9	4278.9	4244.1	3714.4	3303.4	3864.7	4159.4	4153.6
52.5°	3310.9	3645.5	4127.8	4403.5	4425.1	3852.2	3362.4	3926.9	4214.2	4263.2
55°	3348.3	3617.3	4115.4	4334.6	4326.3	3790.8	3369.0	3968.4	4281.4	4329.6
57.5°	3158.1	3240.3	3396.4	3569.9	3525.1	3139.9	3008.7	3668.7	3929.4	3894.5
60°	2727.3	2469.9	2293.9	2285.6	2198.4	2078.0	2462.4	3274.4	3274.4	3240.3
62.5°	2388.5	1621.4	1393.1	1328.3	1390.6	1529.3	2375.2	3184.7	3094.2	3055.2
65°	2088.8	1237.9	1007.1	988.8	1096.7	1305.9	2147.8	2713.1	2553.7	2424.2
67.5°	1344.1	906.6	748.9	716.5	846.8	958.9	1429.6	1668.7	1568.3	1517.6
70°	866.7	590.3	416.8	391.0	441.7	591.1	913.2	973.0	826.9	792.9
72.5°	410.1	254.9	146.1	120.4	135.3	225.8	361.1	388.5	323.0	295.6
75°	130.3	93.8	59.8	51.5	49.0	58.1	83.0	63.9	46.5	45.7
77.5°	58.1	55.6	47.3	39.9	34.9	29.1	24.1	19.9	20.8	21.6
80°	48.2	44.0	39.0	34.9	29.1	22.4	17.4	13.3	13.3	14.1
82.5°	42.3	38.2	34.0	29.1	24.9	18.3	13.3	9.1	8.3	8.3
85°	18.3	21.6	23.2	24.9	19.9	14.9	9.1	5.8	5.0	5.0
87.5°	7.5	6.6	5.8	5.0	4.2	4.2	3.3	2.5	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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