

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: P527016

Luminaire Tested: **GALN-SA2A-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527016
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-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6237 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

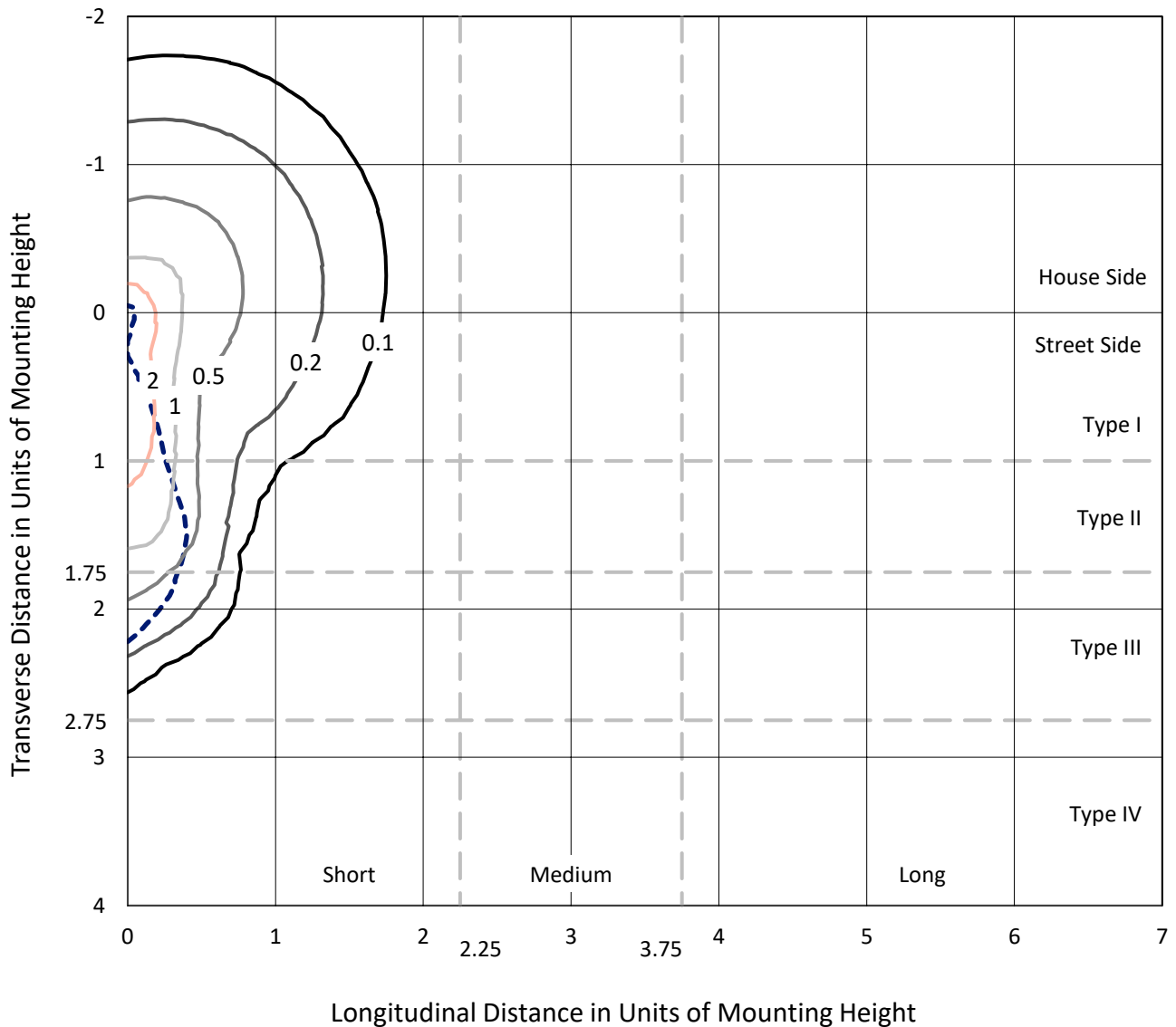
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

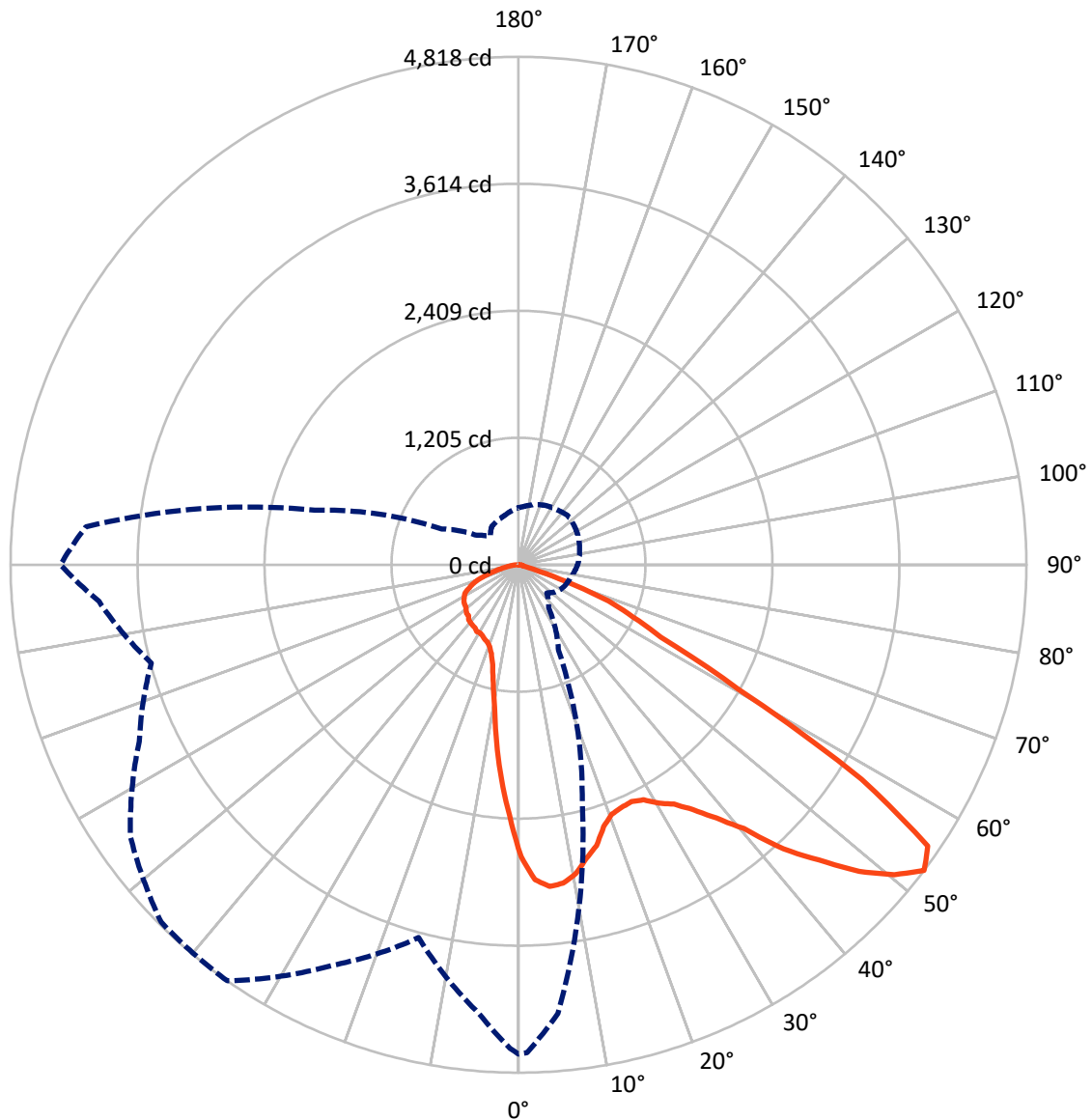
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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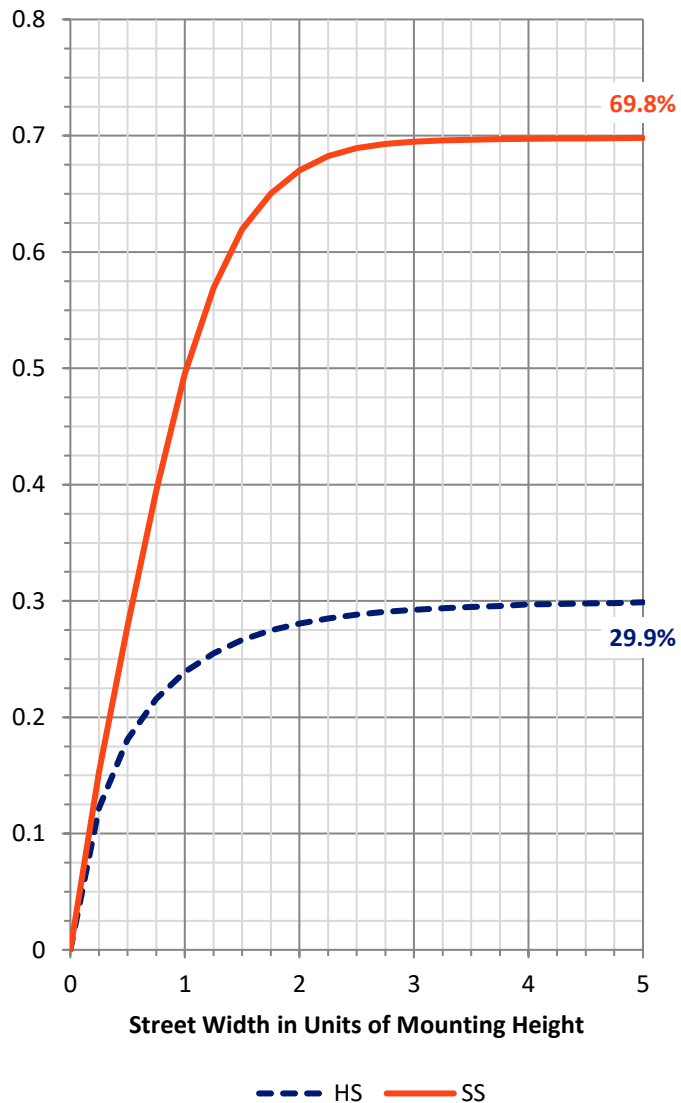
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1880.2	0.0	1880.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	4356.8	0.0	4356.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	6237.0	0.0	6237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	3.4
10°-20°	457.8	7.3
20°-30°	691.7	11.1
30°-40°	999.5	16.0
40°-50°	1330.2	21.3
50°-60°	1487.9	23.9
60°-70°	838.5	13.4
70°-80°	186.9	3.0
80°-90°	33.3	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°	6237.0	100.0
0°-180°	6237.0	100.0

Coefficient of Utilization

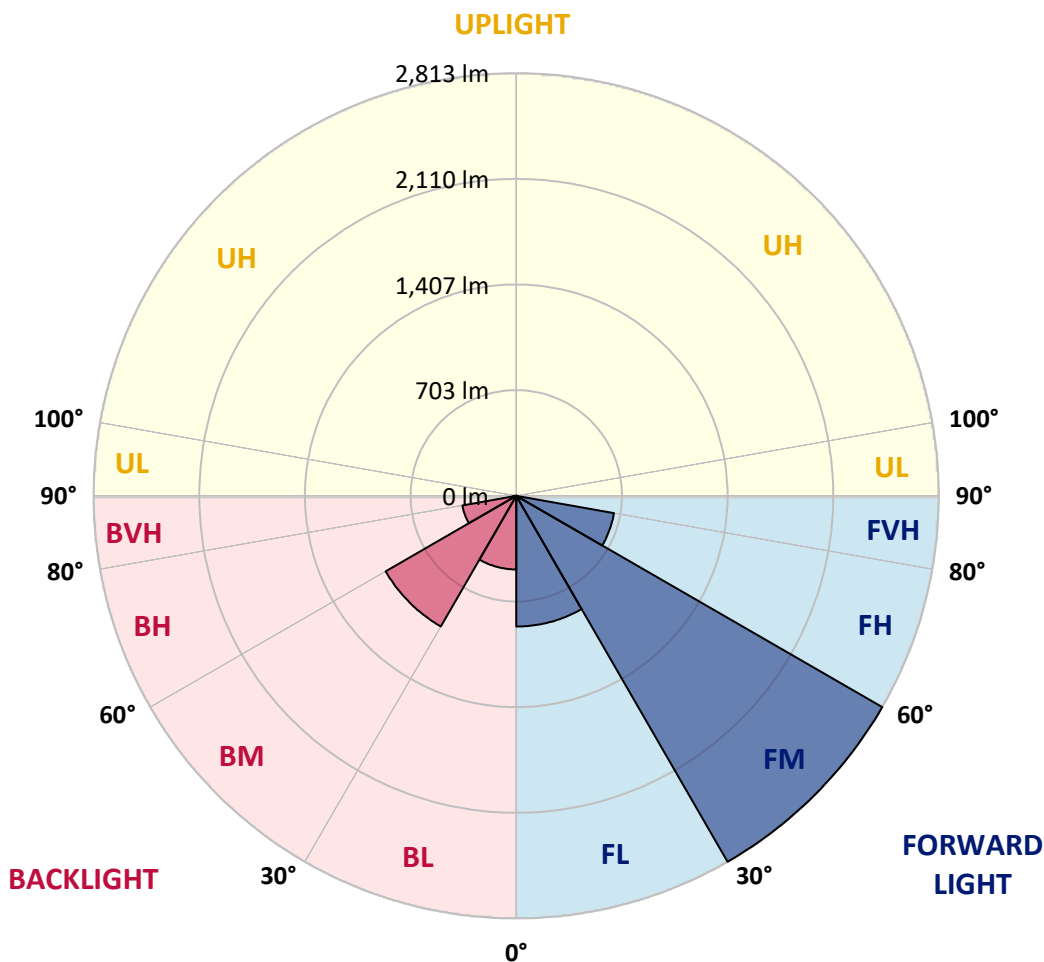


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.4	14.0			
FM (30°-60°)	2813.4	45.1			
FH (60°-80°)	661.0	10.6			G1/1800
FVH (80°-90°)	12.0	0.2			G1/100
BL (0°-30°)	490.3	7.9	B1/500		
BM (30°-60°)	1004.2	16.1	B2/2500		
BH (60°-80°)	364.4	5.8	B1/500		G1/500
BVH (80°-90°)	21.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0
2.5°	2814.1	2859.3	2810.5	2723.7	2662.3	2606.2	2547.4	2535.7	2458.9	2445.3	2389.2
5°	2654.1	2644.2	2584.5	2470.6	2345.0	2231.0	2147.0	2065.6	2010.5	1946.3	1941.8
7.5°	2459.8	2401.9	2367.6	2194.9	2039.4	1860.4	1783.6	1659.7	1620.9	1563.0	1533.2
10°	2286.2	2243.7	2163.2	1990.6	1773.6	1655.2	1572.9	1506.0	1460.8	1401.2	1326.2
12.5°	2200.3	2183.1	2092.7	1825.2	1664.2	1537.7	1479.8	1414.7	1337.9	1242.1	1205.0
15°	2215.7	2157.8	2089.1	1793.5	1571.1	1449.1	1356.9	1275.5	1177.0	1085.7	1032.4
17.5°	2330.5	2286.2	2148.8	1813.4	1535.9	1359.6	1192.4	1072.1	983.5	901.3	864.2
20°	2556.5	2492.3	2337.7	1838.7	1459.9	1234.9	1043.2	895.0	800.0	756.6	744.0
22.5°	2806.9	2768.9	2522.1	1895.7	1399.4	1119.1	885.0	736.8	701.5	689.7	713.2
25°	3111.5	3013.0	2808.7	1988.8	1352.4	1020.6	751.2	669.0	650.9	662.6	689.7
27.5°	3343.0	3316.7	3009.4	2076.5	1288.2	902.2	676.2	621.9	627.4	639.1	664.4
30°	3617.8	3484.9	3203.7	2137.0	1230.3	820.8	623.8	609.3	614.7	634.6	647.3
32.5°	3783.2	3733.5	3325.8	2228.3	1163.4	750.3	583.1	569.5	577.6	607.5	637.3
35°	3993.8	3895.3	3476.7	2251.8	1116.4	722.3	554.1	544.2	563.2	584.0	617.4
37.5°	4239.7	4171.9	3685.6	2235.6	1091.1	693.4	529.7	525.2	538.8	567.7	606.6
40°	4385.3	4364.5	3795.0	2245.5	1051.3	668.0	501.7	507.1	535.2	557.8	595.7
42.5°	4525.4	4389.8	3956.8	2241.9	1026.0	633.7	504.4	498.1	519.8	546.0	582.2
45°	4556.1	4421.4	3994.7	2216.6	995.3	600.2	483.6	486.3	512.6	545.1	568.6
47.5°	4536.2	4436.8	4065.2	2209.4	966.4	576.7	452.9	485.4	500.8	527.0	560.5
50°	4522.7	4517.2	4124.9	2243.7	927.5	539.7	415.8	473.7	489.1	515.3	551.4
52.5°	4642.0	4630.2	4274.1	2334.1	896.8	499.9	377.9	443.9	480.9	506.2	541.5
55°	4714.3	4662.8	4529.9	2445.3	845.2	447.5	351.7	406.8	461.0	483.6	519.8
57.5°	4240.6	4205.4	4097.8	2282.6	758.4	378.8	319.1	368.8	433.9	469.2	506.2
60°	3528.3	3473.1	3197.4	1940.0	559.6	294.7	299.2	339.0	426.7	440.2	483.6
62.5°	3326.7	3190.2	2815.0	1561.2	429.4	253.1	268.5	311.9	388.7	411.3	454.7
65°	2639.7	2538.4	2014.1	1127.3	287.5	219.7	245.0	281.1	335.4	379.7	419.5
67.5°	1652.5	1555.8	1074.8	533.4	200.7	188.0	218.8	256.7	301.0	340.8	385.1
70°	863.3	757.5	496.3	192.5	138.3	153.7	182.6	218.8	262.2	294.7	329.1
72.5°	321.8	261.3	161.8	83.2	95.8	117.5	148.3	174.5	205.2	245.0	264.0
75°	49.7	42.5	41.6	50.6	65.1	85.0	105.8	132.0	159.1	184.4	197.1
77.5°	23.5	22.6	25.3	33.4	43.4	60.6	76.8	102.2	123.8	140.1	147.4
80°	15.4	14.5	16.3	22.6	32.5	45.2	61.5	78.6	98.5	112.1	110.3
82.5°	9.0	9.9	9.9	15.4	22.6	32.5	44.3	59.7	73.2	85.0	77.7
85°	5.4	4.5	4.5	9.0	15.4	26.2	37.1	25.3	26.2	26.2	29.8
87.5°	1.8	1.8	1.8	0.9	1.8	1.8	2.7	4.5	5.4	6.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0
2.5°	2387.4	2415.5	2405.5	2370.3	2397.4	2401.9	2383.8	2446.2	2458.0	2439.0	2444.4
5°	1935.4	1942.7	1958.9	1993.3	2017.7	2046.6	2046.6	2048.4	2024.0	2085.5	2067.4
7.5°	1507.9	1512.4	1531.4	1604.6	1625.4	1680.5	1704.0	1687.8	1638.9	1618.1	1635.3
10°	1301.7	1275.5	1269.2	1278.2	1325.3	1348.8	1368.6	1363.2	1355.1	1338.8	1320.7
12.5°	1164.3	1145.4	1130.0	1108.3	1111.0	1133.6	1149.0	1136.3	1139.9	1143.5	1149.0
15°	1015.2	1001.6	993.5	960.9	957.3	972.7	978.1	985.3	998.9	999.8	993.5
17.5°	857.0	845.2	863.3	881.4	868.7	869.6	879.6	885.9	882.3	866.0	857.9
20°	748.5	761.2	779.2	796.4	810.0	818.1	821.7	811.8	800.0	766.6	765.7
22.5°	716.9	733.1	748.5	774.7	787.4	808.2	789.2	766.6	750.3	734.0	715.1
25°	693.4	706.9	737.7	747.6	772.0	789.2	775.6	753.0	725.0	701.5	687.0
27.5°	676.2	691.6	711.4	738.6	757.5	767.5	753.9	744.9	716.0	687.9	667.1
30°	665.3	681.6	717.8	740.4	756.6	764.8	741.3	730.4	709.6	686.1	668.0
32.5°	658.1	672.6	703.3	732.2	743.1	743.1	746.7	734.0	705.1	665.3	650.0
35°	634.6	654.5	679.8	713.2	733.1	744.9	726.8	712.3	693.4	652.7	624.7
37.5°	621.0	634.6	667.1	698.8	716.0	728.6	721.4	696.1	670.8	637.3	614.7
40°	606.6	628.3	657.2	687.0	706.0	718.7	713.2	683.4	652.7	621.0	605.7
42.5°	596.6	611.1	640.9	674.4	697.0	721.4	705.1	668.0	646.4	603.0	585.8
45°	588.5	612.0	643.6	657.2	680.7	706.0	677.1	654.5	629.2	597.5	583.1
47.5°	578.6	600.2	621.0	657.2	668.0	679.8	674.4	638.2	616.5	582.2	572.2
50°	574.9	583.1	621.0	640.9	656.3	668.0	653.6	626.5	605.7	570.4	548.7
52.5°	560.5	575.8	600.2	626.5	645.4	659.9	636.4	619.2	591.2	554.1	540.6
55°	542.4	551.4	594.8	621.9	631.9	641.8	632.8	604.8	575.8	537.9	524.3
57.5°	518.9	539.7	574.9	612.9	625.6	631.0	616.5	593.9	557.8	524.3	502.6
60°	494.5	516.2	555.1	585.8	598.4	618.3	596.6	583.1	541.5	504.4	480.9
62.5°	470.1	494.5	523.4	562.3	573.1	581.3	575.8	556.9	523.4	481.8	452.9
65°	441.1	459.2	495.4	515.3	522.5	541.5	522.5	515.3	485.4	445.7	421.3
67.5°	397.8	413.1	444.8	463.7	469.2	477.3	476.4	468.3	434.8	407.7	386.0
70°	348.0	361.6	381.5	404.1	406.8	416.7	407.7	405.9	384.2	347.1	335.4
72.5°	279.3	292.0	318.2	328.1	329.1	332.7	328.1	321.8	316.4	277.5	265.8
75°	214.2	221.5	234.1	243.2	243.2	247.7	245.0	238.7	224.2	199.8	188.0
77.5°	149.2	156.4	172.7	178.1	177.2	179.0	170.9	164.5	142.8	130.2	120.2
80°	108.5	113.0	121.1	124.8	125.7	128.4	118.4	113.0	100.3	85.9	81.4
82.5°	78.6	81.4	82.3	86.8	86.8	82.3	79.6	74.1	65.1	56.0	52.4
85°	32.5	33.4	34.4	39.8	40.7	48.8	45.2	42.5	37.1	31.6	28.9
87.5°	8.1	9.0	11.8	9.9	11.8	11.8	12.7	14.5	14.5	11.8	11.8
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°	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0
2.5°	2465.2	2472.4	2564.6	2576.4	2621.6	2667.7	2760.8	2827.7	2881.9	2917.2	2927.1
5°	2086.4	2132.5	2175.0	2243.7	2306.1	2394.7	2496.8	2623.4	2782.5	2863.8	2896.4
7.5°	1633.5	1687.8	1749.2	1816.1	1907.4	2066.5	2203.0	2349.5	2552.9	2636.9	2764.4
10°	1333.4	1394.0	1475.3	1526.8	1637.1	1789.0	1948.1	2117.1	2311.5	2432.6	2580.0
12.5°	1178.8	1228.5	1303.6	1412.0	1494.3	1592.8	1711.3	1924.6	2203.0	2317.8	2419.1
15°	1007.9	1063.1	1149.9	1270.1	1368.6	1486.2	1619.0	1851.4	2147.9	2325.1	2410.9
17.5°	866.9	906.7	998.0	1102.0	1215.0	1343.3	1534.1	1847.8	2205.7	2432.6	2572.8
20°	769.3	774.7	824.4	913.0	1066.7	1233.9	1481.6	1829.7	2391.1	2618.0	2795.1
22.5°	707.8	702.4	703.3	778.3	885.9	1126.4	1399.4	1891.1	2601.7	2912.7	3032.0
25°	677.1	662.6	653.6	669.9	767.5	998.9	1337.0	1972.5	2828.6	3155.8	3302.3
27.5°	660.8	635.5	617.4	620.1	691.6	934.7	1298.1	2007.8	3053.7	3494.8	3546.4
30°	654.5	622.8	596.6	587.6	634.6	845.2	1215.0	2068.3	3255.3	3681.0	3725.3
32.5°	631.9	593.0	567.7	559.6	578.6	766.6	1155.3	2111.7	3433.4	3883.5	3868.2
35°	605.7	573.1	541.5	526.1	539.7	716.0	1107.4	2090.9	3643.1	4040.8	4032.7
37.5°	603.0	560.5	534.3	508.9	508.0	653.6	1042.3	2110.8	3776.9	4322.9	4211.7
40°	579.5	552.3	518.0	497.2	485.4	621.9	979.0	2063.8	3973.0	4436.8	4327.4
42.5°	580.4	539.7	509.9	485.4	473.7	575.8	935.6	2051.2	4041.7	4622.1	4381.6
45°	565.9	526.1	500.8	471.9	465.6	540.6	894.0	1992.4	4162.9	4631.1	4313.8
47.5°	551.4	516.2	489.1	454.7	440.2	527.9	861.5	1943.6	4099.6	4546.2	4219.8
50°	541.5	500.8	475.5	451.1	410.4	506.2	819.0	1931.8	4011.0	4431.4	4045.4
52.5°	524.3	488.2	461.9	443.0	377.9	486.3	802.7	2000.5	4119.5	4345.5	3994.7
55°	508.0	471.0	437.5	400.5	350.7	433.9	757.5	2064.7	4277.7	4543.5	4224.3
57.5°	490.9	455.6	419.5	375.2	324.5	379.7	710.5	2076.5	3981.2	4199.0	4010.1
60°	468.3	423.1	395.9	338.1	296.5	314.6	563.2	1830.6	3088.0	3506.6	3512.9
62.5°	443.0	394.1	370.6	302.8	267.6	271.2	459.2	1538.6	2505.0	2902.7	3075.4
65°	409.5	362.5	334.5	280.2	246.8	235.0	336.3	1127.3	1902.9	2354.9	2551.1
67.5°	366.1	321.8	286.6	244.1	220.6	201.6	229.6	634.6	1123.7	1581.1	1640.7
70°	320.0	282.0	245.0	209.7	183.5	170.0	168.1	281.1	537.0	850.7	968.2
72.5°	252.2	225.1	195.3	169.0	151.9	132.0	120.2	116.6	181.7	346.2	478.2
75°	180.8	158.2	141.0	123.8	111.2	100.3	91.3	83.2	75.9	86.8	119.3
77.5°	113.9	105.8	92.2	87.7	80.5	77.7	74.1	69.6	64.2	60.6	60.6
80°	76.8	71.4	66.9	66.0	63.3	62.4	63.3	58.8	53.3	48.8	50.6
82.5°	51.5	50.6	49.7	48.8	49.7	50.6	52.4	51.5	47.0	44.3	45.2
85°	30.7	32.5	34.4	36.2	39.8	35.3	28.9	24.4	21.7	19.9	19.0
87.5°	11.8	16.3	14.5	13.6	14.5	13.6	12.7	11.8	9.9	9.0	9.0
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°	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0	2768.0
2.5°	2993.1	3011.2	3026.6	3022.9	2991.3	2948.8	2931.6	2844.0	2825.9	2814.1
5°	3033.8	3138.7	3161.3	3147.7	3065.4	2961.5	2860.2	2731.9	2656.8	2654.1
7.5°	2958.8	3088.0	3128.7	3159.4	3050.1	2869.3	2695.7	2503.1	2456.1	2459.8
10°	2768.0	2974.1	3074.5	3106.1	2980.5	2824.1	2583.6	2388.3	2288.0	2286.2
12.5°	2662.3	2824.1	2852.1	2896.4	2859.3	2701.1	2518.5	2299.8	2202.1	2200.3
15°	2568.2	2674.9	2683.0	2745.4	2765.3	2658.6	2535.7	2302.5	2223.8	2215.7
17.5°	2650.5	2576.4	2545.6	2553.8	2612.5	2651.4	2635.1	2456.1	2375.7	2330.5
20°	2705.6	2540.2	2447.1	2456.1	2525.7	2667.7	2783.4	2678.5	2551.1	2556.5
22.5°	2853.0	2545.6	2400.1	2390.2	2500.4	2752.7	2950.6	2959.7	2836.7	2806.9
25°	3073.6	2608.0	2385.6	2382.9	2488.7	2844.0	3145.9	3292.3	3166.7	3111.5
27.5°	3250.7	2705.6	2430.8	2439.9	2525.7	2918.1	3312.2	3506.6	3410.8	3343.0
30°	3406.2	2806.9	2494.1	2452.5	2625.2	2957.0	3383.6	3750.7	3673.8	3617.8
32.5°	3470.4	2950.6	2594.5	2525.7	2707.5	3004.0	3531.9	3987.5	3921.5	3783.2
35°	3578.9	3031.1	2648.7	2643.3	2851.2	3117.0	3601.5	4143.9	4116.8	3993.8
37.5°	3665.7	3112.4	2841.2	2781.6	3048.3	3306.8	3713.6	4359.9	4297.6	4239.7
40°	3732.6	3258.0	3021.1	3099.8	3290.5	3479.5	3816.6	4373.5	4553.4	4385.3
42.5°	3671.1	3388.2	3316.7	3504.8	3685.6	3676.5	3828.4	4478.4	4613.1	4525.4
45°	3655.7	3608.7	3784.1	3955.0	3996.5	3840.2	3744.3	4362.7	4595.0	4556.1
47.5°	3618.7	3825.7	4131.2	4409.7	4346.4	3949.5	3644.0	4341.9	4605.8	4536.2
50°	3606.0	3872.7	4388.0	4659.2	4621.2	4044.5	3597.0	4208.1	4529.0	4522.7
52.5°	3605.1	3969.4	4494.6	4794.8	4818.3	4194.5	3661.2	4275.9	4588.7	4642.0
55°	3645.8	3938.7	4481.1	4719.7	4710.7	4127.6	3668.4	4321.1	4661.9	4714.3
57.5°	3438.8	3528.3	3698.2	3887.2	3838.3	3418.9	3276.1	3994.7	4278.6	4240.6
60°	2969.6	2689.4	2497.7	2488.7	2393.8	2262.7	2681.2	3565.3	3565.3	3528.3
62.5°	2600.8	1765.5	1516.9	1446.4	1514.2	1665.2	2586.3	3467.7	3369.2	3326.7
65°	2274.4	1347.8	1096.5	1076.7	1194.2	1422.0	2338.6	2954.2	2780.7	2639.7
67.5°	1463.6	987.2	815.4	780.1	922.1	1044.1	1556.7	1817.0	1707.6	1652.5
70°	943.8	642.7	453.8	425.8	480.9	643.6	994.4	1059.5	900.4	863.3
72.5°	446.6	277.5	159.1	131.1	147.4	245.9	393.2	423.1	351.7	321.8
75°	141.9	102.2	65.1	56.0	53.3	63.3	90.4	69.6	50.6	49.7
77.5°	63.3	60.6	51.5	43.4	38.0	31.6	26.2	21.7	22.6	23.5
80°	52.4	47.9	42.5	38.0	31.6	24.4	19.0	14.5	14.5	15.4
82.5°	46.1	41.6	37.1	31.6	27.1	19.9	14.5	9.9	9.0	9.0
85°	19.9	23.5	25.3	27.1	21.7	16.3	9.9	6.3	5.4	5.4
87.5°	8.1	7.2	6.3	5.4	4.5	4.5	3.6	2.7	1.8	1.8
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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