

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: P651739

Luminaire Tested: **GALN-SA2A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651739
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-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 5760 lumens
Efficiency: N/A
Efficacy: 91.4 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

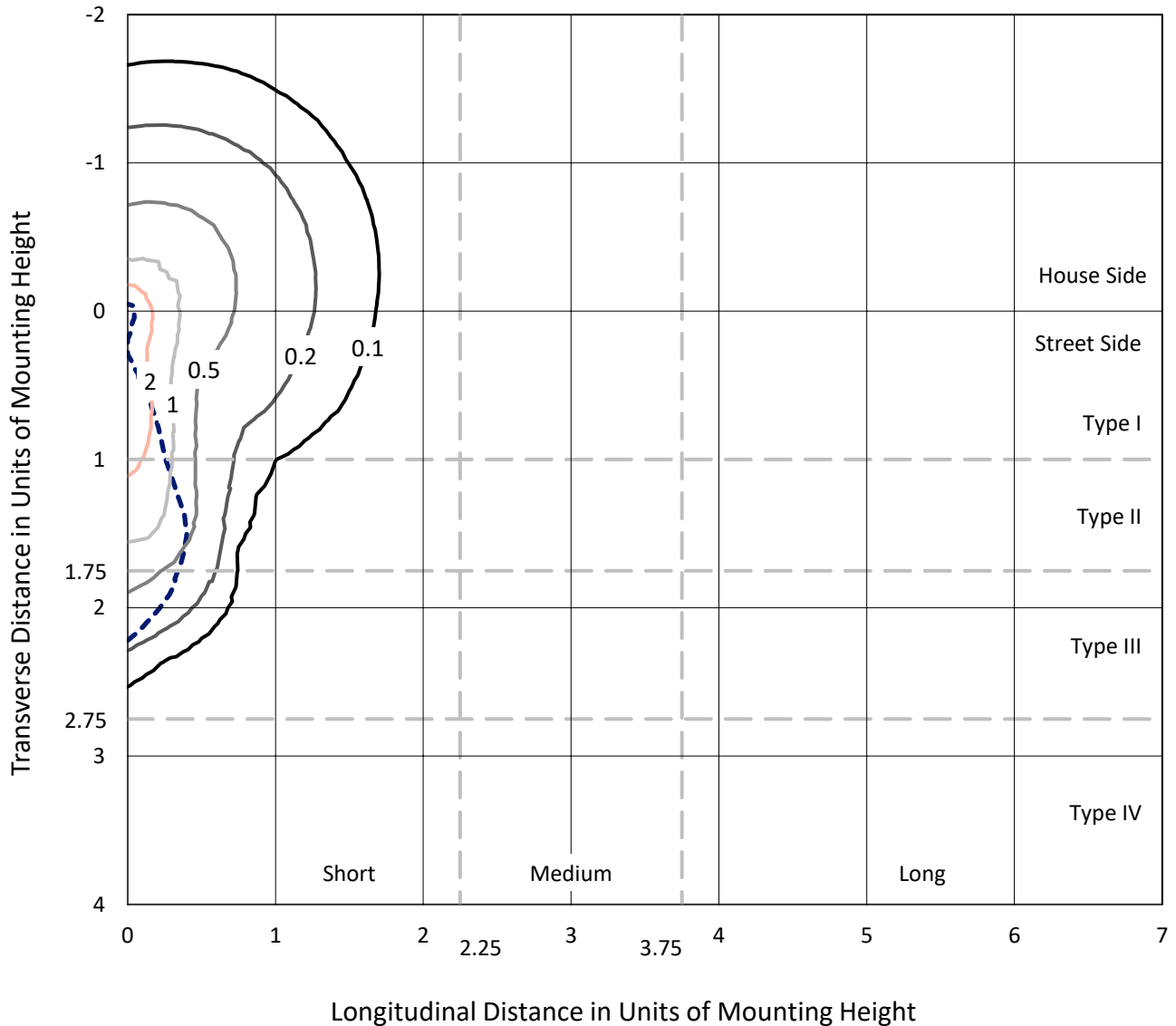




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Iso-Footcandle Lines of Horizontal Illumination

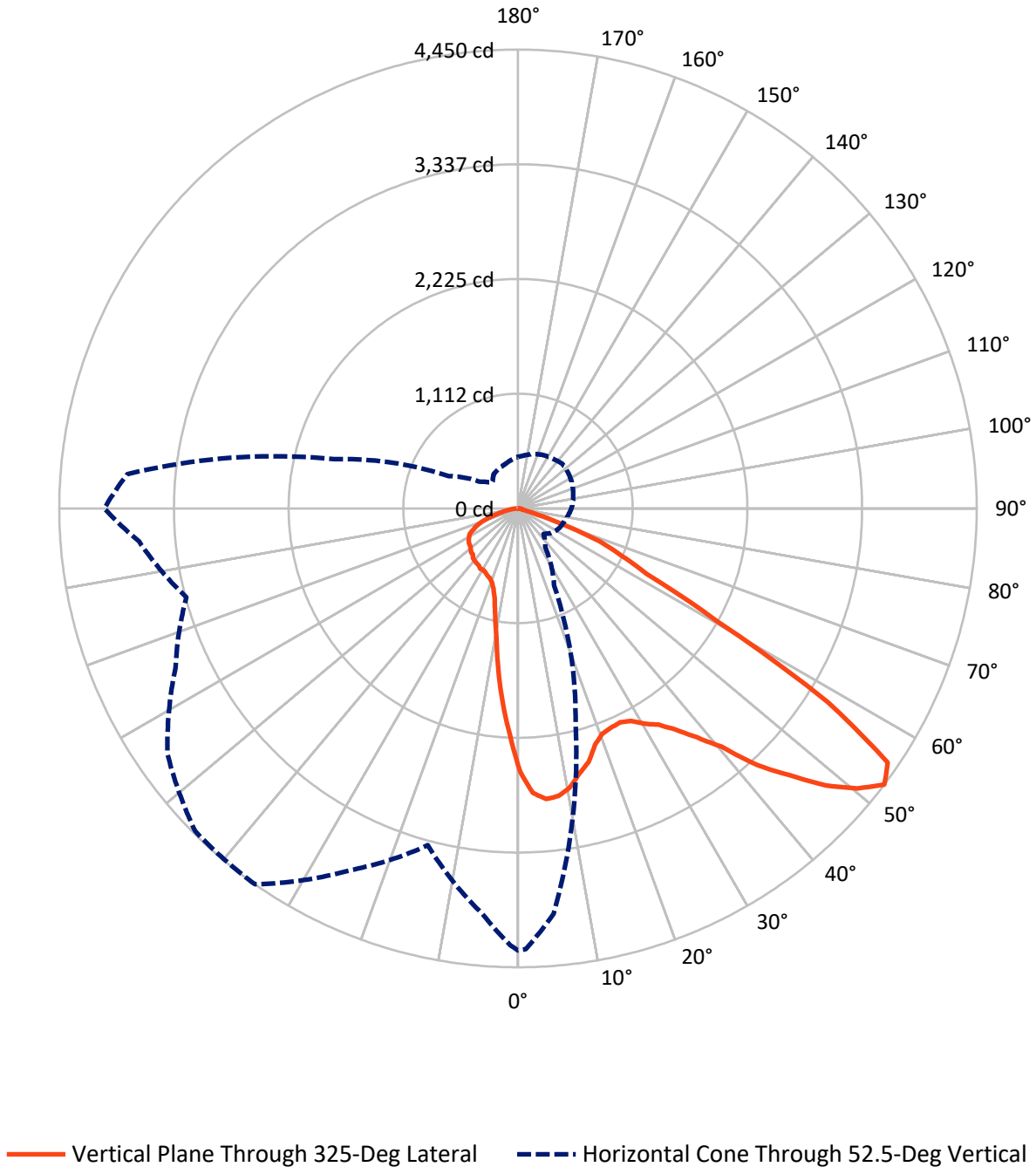
× Max cd
 - - - 1/2 Max cd



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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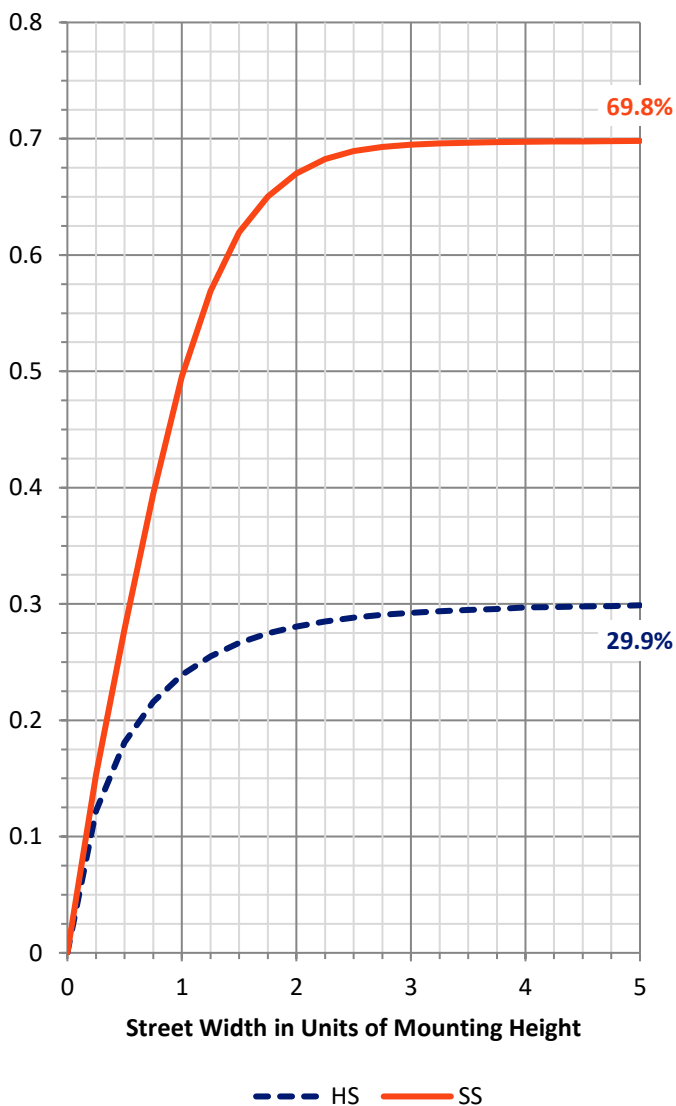
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.4	0.0	1736.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	4023.6	0.0	4023.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	5760.0	0.0	5760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	3.4
10°-20°	422.8	7.3
20°-30°	638.8	11.1
30°-40°	923.1	16.0
40°-50°	1228.5	21.3
50°-60°	1374.1	23.9
60°-70°	774.4	13.4
70°-80°	172.6	3.0
80°-90°	30.7	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°	5760.0	100.0
0°-180°	5760.0	100.0

Coefficient of Utilization



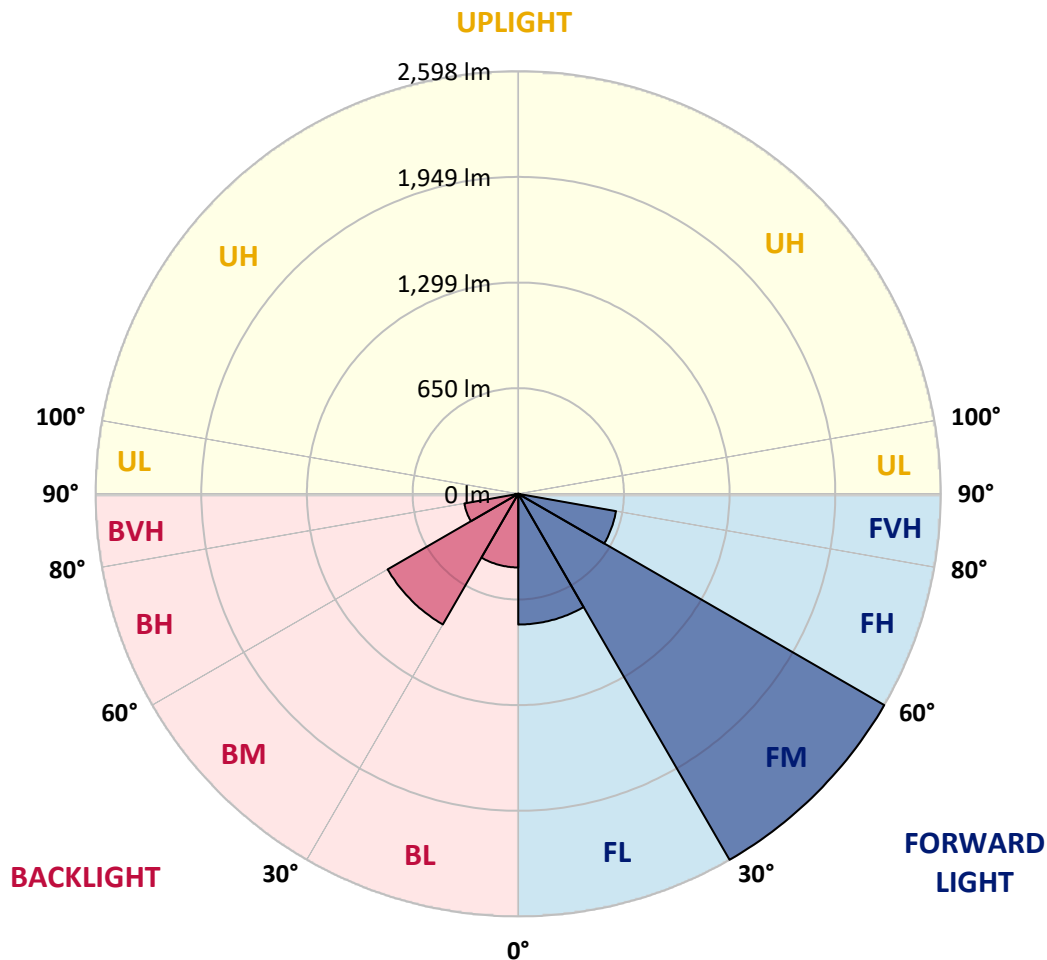
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.8	14.0			
FM (30°-60°)	2598.2	45.1			
FH (60°-80°)	610.5	10.6			G0/660
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	452.8	7.9	B1/500		
BM (30°-60°)	927.4	16.1	B1/1000		
BH (60°-80°)	336.6	5.8	B1/500		G1/500
BVH (80°-90°)	19.6	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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2598.9	2640.7	2595.6	2515.4	2458.7	2406.9	2352.6	2341.8	2270.8	2258.3	2206.5
5°	2451.1	2441.9	2386.8	2281.6	2165.6	2060.4	1982.7	1907.6	1856.8	1797.5	1793.3
7.5°	2271.6	2218.2	2186.5	2027.1	1883.4	1718.2	1647.2	1532.8	1496.9	1443.5	1415.9
10°	2111.3	2072.1	1997.8	1838.3	1638.0	1528.6	1452.7	1390.8	1349.1	1294.0	1224.7
12.5°	2032.0	2016.2	1932.7	1685.5	1536.9	1420.1	1366.6	1306.6	1235.6	1147.1	1112.9
15°	2046.2	1992.8	1929.3	1656.3	1451.0	1338.3	1253.1	1178.0	1087.0	1002.6	953.4
17.5°	2152.3	2111.3	1984.4	1674.7	1418.4	1255.6	1101.2	990.1	908.4	832.3	798.1
20°	2360.9	2301.7	2158.9	1698.1	1348.3	1140.4	963.4	826.5	738.8	698.8	687.1
22.5°	2592.2	2557.1	2329.2	1750.7	1292.4	1033.6	817.3	680.4	647.8	637.0	658.7
25°	2873.6	2782.5	2593.9	1836.7	1249.0	942.6	693.7	617.8	601.1	611.9	637.0
27.5°	3087.3	3063.1	2779.3	1917.6	1189.7	833.2	624.4	574.4	579.4	590.2	613.6
30°	3341.1	3218.3	2958.7	1973.6	1136.3	758.1	576.1	562.7	567.7	586.1	597.8
32.5°	3493.9	3447.9	3071.4	2057.9	1074.5	692.9	538.5	526.0	533.4	561.0	588.5
35°	3688.4	3597.4	3210.9	2079.6	1031.1	667.1	511.7	502.6	520.1	539.3	570.2
37.5°	3915.4	3852.9	3403.7	2064.6	1007.7	640.3	489.2	485.1	497.5	524.3	560.2
40°	4049.9	4030.7	3504.7	2073.8	970.9	617.0	463.3	468.4	494.3	515.1	550.2
42.5°	4179.3	4054.0	3654.1	2070.5	947.6	585.3	465.8	460.0	480.0	504.3	537.7
45°	4207.7	4083.3	3689.2	2047.1	919.2	554.3	446.7	449.2	473.4	503.4	525.1
47.5°	4189.3	4097.4	3754.3	2040.4	892.5	532.6	418.2	448.3	462.6	486.7	517.6
50°	4176.7	4171.8	3809.5	2072.1	856.6	498.4	384.0	437.5	451.6	475.8	509.2
52.5°	4287.0	4276.1	3947.2	2155.6	828.2	461.7	348.9	409.9	444.1	467.5	500.1
55°	4353.8	4306.2	4183.5	2258.3	780.6	413.3	324.8	375.7	425.8	446.7	480.0
57.5°	3916.3	3883.7	3784.4	2108.1	700.5	349.8	294.7	340.6	400.7	433.3	467.5
60°	3258.5	3207.5	2952.9	1791.6	516.8	272.1	276.4	313.1	394.1	406.5	446.7
62.5°	3072.3	2946.2	2599.7	1441.8	396.5	233.8	247.9	288.0	359.0	379.9	419.9
65°	2437.8	2344.3	1860.0	1041.1	265.5	202.8	226.2	259.6	309.7	350.6	387.4
67.5°	1526.1	1436.8	992.6	492.6	185.4	173.7	202.0	237.1	278.0	314.7	355.7
70°	797.3	699.6	458.3	177.8	127.7	142.0	168.6	202.0	242.1	272.1	303.9
72.5°	297.2	241.3	149.4	76.8	88.5	108.6	136.9	161.1	189.5	226.2	243.8
75°	45.9	39.3	38.4	46.8	60.1	78.5	97.6	121.9	146.9	170.3	182.0
77.5°	21.7	20.9	23.4	30.9	40.0	55.9	71.0	94.4	114.4	129.4	136.1
80°	14.2	13.4	15.1	20.9	30.0	41.7	56.8	72.7	91.0	103.5	101.8
82.5°	8.3	9.2	9.2	14.2	20.9	30.0	40.9	55.1	67.6	78.5	71.8
85°	5.0	4.2	4.2	8.3	14.2	24.2	34.2	23.4	24.2	24.2	27.6
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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2204.8	2230.8	2221.6	2189.0	2214.0	2218.2	2201.5	2259.1	2269.9	2252.5	2257.4
5°	1787.5	1794.1	1809.2	1840.9	1863.4	1890.1	1890.1	1891.7	1869.2	1926.0	1909.3
7.5°	1392.5	1396.7	1414.2	1481.8	1501.1	1552.0	1573.7	1558.7	1513.6	1494.4	1510.3
10°	1202.2	1178.0	1172.1	1180.5	1223.9	1245.6	1263.9	1259.0	1251.4	1236.4	1219.7
12.5°	1075.3	1057.7	1043.6	1023.5	1026.0	1046.9	1061.1	1049.4	1052.8	1056.1	1061.1
15°	937.5	925.0	917.5	887.4	884.1	898.3	903.3	910.0	922.5	923.3	917.5
17.5°	791.5	780.6	797.3	814.0	802.3	803.2	812.3	818.1	814.8	799.8	792.3
20°	691.3	702.9	719.6	735.5	748.1	755.6	758.9	749.7	738.8	708.0	707.1
22.5°	662.0	677.1	691.3	715.4	727.1	746.4	728.8	708.0	692.9	677.9	660.4
25°	640.3	652.9	681.2	690.5	713.0	728.8	716.3	695.4	669.5	647.8	634.5
27.5°	624.4	638.7	657.0	682.1	699.6	708.8	696.3	687.9	661.2	635.3	616.1
30°	614.4	629.5	662.9	683.7	698.8	706.3	684.6	674.6	655.4	633.7	617.0
32.5°	607.8	621.2	649.5	676.2	686.3	686.3	689.6	677.9	651.2	614.4	600.2
35°	586.1	604.4	627.8	658.7	677.1	687.9	671.2	657.8	640.3	602.7	576.9
37.5°	573.6	586.1	616.1	645.4	661.2	672.9	666.2	642.9	619.5	588.5	567.7
40°	560.2	580.2	606.9	634.5	652.0	663.7	658.7	631.2	602.7	573.6	559.3
42.5°	551.0	564.4	591.9	622.8	643.7	666.2	651.2	617.0	596.9	556.8	541.0
45°	543.5	565.2	594.4	606.9	628.6	652.0	625.3	604.4	581.0	551.9	538.5
47.5°	534.3	554.3	573.6	606.9	617.0	627.8	622.8	589.4	569.4	537.7	528.5
50°	531.0	538.5	573.6	591.9	606.1	617.0	603.6	578.5	559.3	526.8	506.8
52.5°	517.6	531.8	554.3	578.5	596.1	609.5	587.8	571.9	546.0	511.7	499.2
55°	500.9	509.2	549.3	574.4	583.6	592.7	584.4	558.5	531.8	496.8	484.2
57.5°	479.2	498.4	531.0	566.0	577.7	582.7	569.4	548.5	515.1	484.2	464.1
60°	456.7	476.7	512.6	541.0	552.7	571.0	551.0	538.5	500.1	465.8	444.1
62.5°	434.1	456.7	483.4	519.3	529.3	536.8	531.8	514.3	483.4	445.0	418.2
65°	407.4	424.1	457.5	475.8	482.6	500.1	482.6	475.8	448.3	411.6	389.0
67.5°	367.3	381.6	410.7	428.3	433.3	440.8	439.9	432.4	401.6	376.5	356.5
70°	321.4	334.0	352.3	373.2	375.7	384.8	376.5	374.8	354.8	320.6	309.7
72.5°	257.9	269.6	293.8	303.0	303.9	307.2	303.0	297.2	292.2	256.3	245.5
75°	197.9	204.5	216.2	224.5	224.5	228.8	226.2	220.4	207.1	184.5	173.7
77.5°	137.8	144.4	159.5	164.5	163.7	165.3	157.8	152.0	131.9	120.2	111.0
80°	100.2	104.4	111.9	115.2	116.1	118.6	109.3	104.4	92.7	79.3	75.1
82.5°	72.7	75.1	75.9	80.1	80.1	75.9	73.5	68.5	60.1	51.7	48.4
85°	30.0	30.9	31.7	36.8	37.6	45.1	41.7	39.3	34.2	29.2	26.7
87.5°	7.5	8.3	10.8	9.2	10.8	10.8	11.7	13.4	13.4	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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2276.7	2283.3	2368.5	2379.4	2421.1	2463.6	2549.7	2611.4	2661.5	2694.1	2703.2
5°	1926.8	1969.5	2008.6	2072.1	2129.7	2211.5	2305.9	2422.8	2569.7	2644.9	2674.9
7.5°	1508.6	1558.7	1615.5	1677.2	1761.6	1908.5	2034.5	2169.8	2357.7	2435.3	2553.0
10°	1231.4	1287.3	1362.5	1410.1	1511.9	1652.1	1799.2	1955.2	2134.7	2246.6	2382.6
12.5°	1088.7	1134.6	1203.9	1304.1	1380.0	1471.0	1580.4	1777.4	2034.5	2140.6	2234.0
15°	930.9	981.8	1061.9	1172.9	1263.9	1372.5	1495.2	1709.8	1983.6	2147.2	2226.5
17.5°	800.6	837.4	921.7	1017.7	1122.1	1240.6	1416.7	1706.5	2037.1	2246.6	2376.0
20°	710.5	715.4	761.4	843.2	985.1	1139.6	1368.3	1689.7	2208.2	2417.7	2581.4
22.5°	653.7	648.7	649.5	718.8	818.1	1040.2	1292.4	1746.5	2402.7	2689.9	2800.1
25°	625.3	611.9	603.6	618.6	708.8	922.5	1234.8	1821.7	2612.2	2914.5	3049.7
27.5°	610.3	586.9	570.2	572.7	638.7	863.2	1198.8	1854.2	2820.1	3227.6	3275.1
30°	604.4	575.2	551.0	542.7	586.1	780.6	1122.1	1910.2	3006.3	3399.5	3440.4
32.5°	583.6	547.7	524.3	516.8	534.3	708.0	1067.0	1950.2	3170.8	3586.5	3572.3
35°	559.3	529.3	500.1	485.8	498.4	661.2	1022.7	1931.0	3364.5	3731.8	3724.3
37.5°	556.8	517.6	493.4	470.0	469.2	603.6	962.6	1949.4	3488.0	3992.3	3889.6
40°	535.1	510.1	478.4	459.2	448.3	574.4	904.2	1906.0	3669.2	4097.4	3996.4
42.5°	536.0	498.4	470.9	448.3	437.5	531.8	864.0	1894.3	3732.6	4268.6	4046.6
45°	522.6	485.8	462.6	435.8	429.9	499.2	825.7	1840.0	3844.5	4277.0	3983.9
47.5°	509.2	476.7	451.6	419.9	406.5	487.5	795.6	1794.9	3786.1	4198.5	3897.1
50°	500.1	462.6	439.2	416.6	379.0	467.5	756.4	1784.1	3704.3	4092.5	3736.0
52.5°	484.2	450.9	426.6	409.1	348.9	449.2	741.3	1847.5	3804.4	4013.2	3689.2
55°	469.2	435.0	404.1	369.9	324.0	400.7	699.6	1906.8	3950.5	4196.0	3901.3
57.5°	453.3	420.8	387.4	346.5	299.7	350.6	656.2	1917.6	3676.7	3877.9	3703.4
60°	432.4	390.7	365.7	312.3	273.8	290.6	620.1	1690.6	2851.8	3238.4	3244.2
62.5°	409.1	364.0	342.3	279.7	247.1	250.4	424.1	1421.0	2313.4	2680.7	2840.1
65°	378.2	334.8	308.9	258.8	227.9	217.1	310.6	1041.1	1757.4	2174.8	2356.0
67.5°	338.1	297.2	264.7	225.4	203.7	186.2	212.0	586.1	1037.7	1460.1	1515.2
70°	295.5	260.5	226.2	193.7	169.5	156.9	155.2	259.6	495.9	785.6	894.2
72.5°	233.0	207.9	180.3	156.1	140.3	121.9	111.0	107.7	167.8	319.7	441.6
75°	166.9	146.1	130.3	114.4	102.7	92.7	84.4	76.8	70.1	80.1	110.2
77.5°	105.2	97.6	85.2	81.0	74.3	71.8	68.5	64.3	59.3	55.9	55.9
80°	71.0	65.9	61.8	61.0	58.4	57.6	58.4	54.2	49.3	45.1	46.8
82.5°	47.6	46.8	45.9	45.1	45.9	46.8	48.4	47.6	43.4	40.9	41.7
85°	28.4	30.0	31.7	33.4	36.8	32.5	26.7	22.5	20.0	18.3	17.5
87.5°	10.8	15.1	13.4	12.5	13.4	12.5	11.7	10.8	9.2	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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2764.2	2780.9	2795.1	2791.8	2762.5	2723.3	2707.4	2626.4	2609.8	2598.9
5°	2801.8	2898.6	2919.5	2907.0	2831.0	2735.0	2641.5	2522.9	2453.6	2451.1
7.5°	2732.5	2851.8	2889.4	2917.8	2816.8	2649.8	2489.5	2311.7	2268.3	2271.6
10°	2556.3	2746.7	2839.4	2868.6	2752.5	2608.1	2386.0	2205.7	2113.0	2111.3
12.5°	2458.7	2608.1	2633.9	2674.9	2640.7	2494.6	2325.9	2123.9	2033.7	2032.0
15°	2371.8	2470.4	2477.8	2535.4	2553.9	2455.3	2341.8	2126.4	2053.7	2046.2
17.5°	2447.8	2379.4	2350.9	2358.5	2412.7	2448.7	2433.6	2268.3	2194.0	2152.3
20°	2498.7	2346.0	2259.9	2268.3	2332.6	2463.6	2570.5	2473.7	2356.0	2360.9
22.5°	2634.8	2350.9	2216.5	2207.4	2309.2	2542.2	2725.0	2733.3	2619.8	2592.2
25°	2838.5	2408.5	2203.2	2200.6	2298.4	2626.4	2905.3	3040.6	2924.5	2873.6
27.5°	3002.1	2498.7	2245.0	2253.3	2332.6	2694.9	3058.9	3238.4	3149.9	3087.3
30°	3145.8	2592.2	2303.3	2265.0	2424.4	2730.8	3124.9	3463.8	3392.8	3341.1
32.5°	3205.1	2725.0	2396.0	2332.6	2500.4	2774.2	3261.8	3682.6	3621.6	3493.9
35°	3305.2	2799.3	2446.1	2441.1	2633.2	2878.6	3326.1	3827.0	3801.9	3688.4
37.5°	3385.4	2874.4	2623.9	2568.8	2815.2	3053.9	3429.6	4026.5	3968.9	3915.4
40°	3447.1	3008.8	2790.1	2862.7	3038.9	3213.4	3524.8	4039.1	4205.2	4049.9
42.5°	3390.3	3129.0	3063.1	3236.8	3403.7	3395.4	3535.6	4135.9	4260.3	4179.3
45°	3376.2	3332.7	3494.7	3652.5	3690.9	3546.5	3457.9	4029.0	4243.6	4207.7
47.5°	3342.0	3533.1	3815.3	4072.5	4014.0	3647.5	3365.3	4009.8	4253.6	4189.3
50°	3330.3	3576.5	4052.4	4302.8	4267.8	3735.1	3321.9	3886.3	4182.6	4176.7
52.5°	3329.4	3665.8	4150.9	4428.0	4449.8	3873.7	3381.2	3948.8	4237.7	4287.0
55°	3366.9	3637.5	4138.4	4358.8	4350.4	3811.9	3387.9	3990.6	4305.3	4353.8
57.5°	3175.8	3258.5	3415.4	3589.9	3544.8	3157.5	3025.5	3689.2	3951.4	3916.3
60°	2742.5	2483.7	2306.7	2298.4	2210.7	2089.6	2476.2	3292.7	3292.7	3258.5
62.5°	2401.9	1630.4	1400.9	1335.8	1398.4	1537.8	2388.5	3202.5	3111.5	3072.3
65°	2100.5	1244.8	1012.6	994.3	1102.8	1313.2	2159.8	2728.3	2568.0	2437.8
67.5°	1351.7	911.6	753.0	720.5	851.5	964.3	1437.6	1678.0	1577.0	1526.1
70°	871.6	593.6	419.1	393.3	444.1	594.4	918.4	978.4	831.5	797.3
72.5°	412.4	256.3	146.9	121.0	136.1	227.1	363.1	390.7	324.8	297.2
75°	131.1	94.4	60.1	51.7	49.3	58.4	83.5	64.3	46.8	45.9
77.5°	58.4	55.9	47.6	40.0	35.1	29.2	24.2	20.0	20.9	21.7
80°	48.4	44.2	39.3	35.1	29.2	22.5	17.5	13.4	13.4	14.2
82.5°	42.6	38.4	34.2	29.2	25.1	18.3	13.4	9.2	8.3	8.3
85°	18.3	21.7	23.4	25.1	20.0	15.1	9.2	5.8	5.0	5.0
87.5°	7.5	6.6	5.8	5.0	4.2	4.2	3.4	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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