

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: P647449

Luminaire Tested: **GALN-SA5D-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647449
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-SA5D-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 22591.9 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

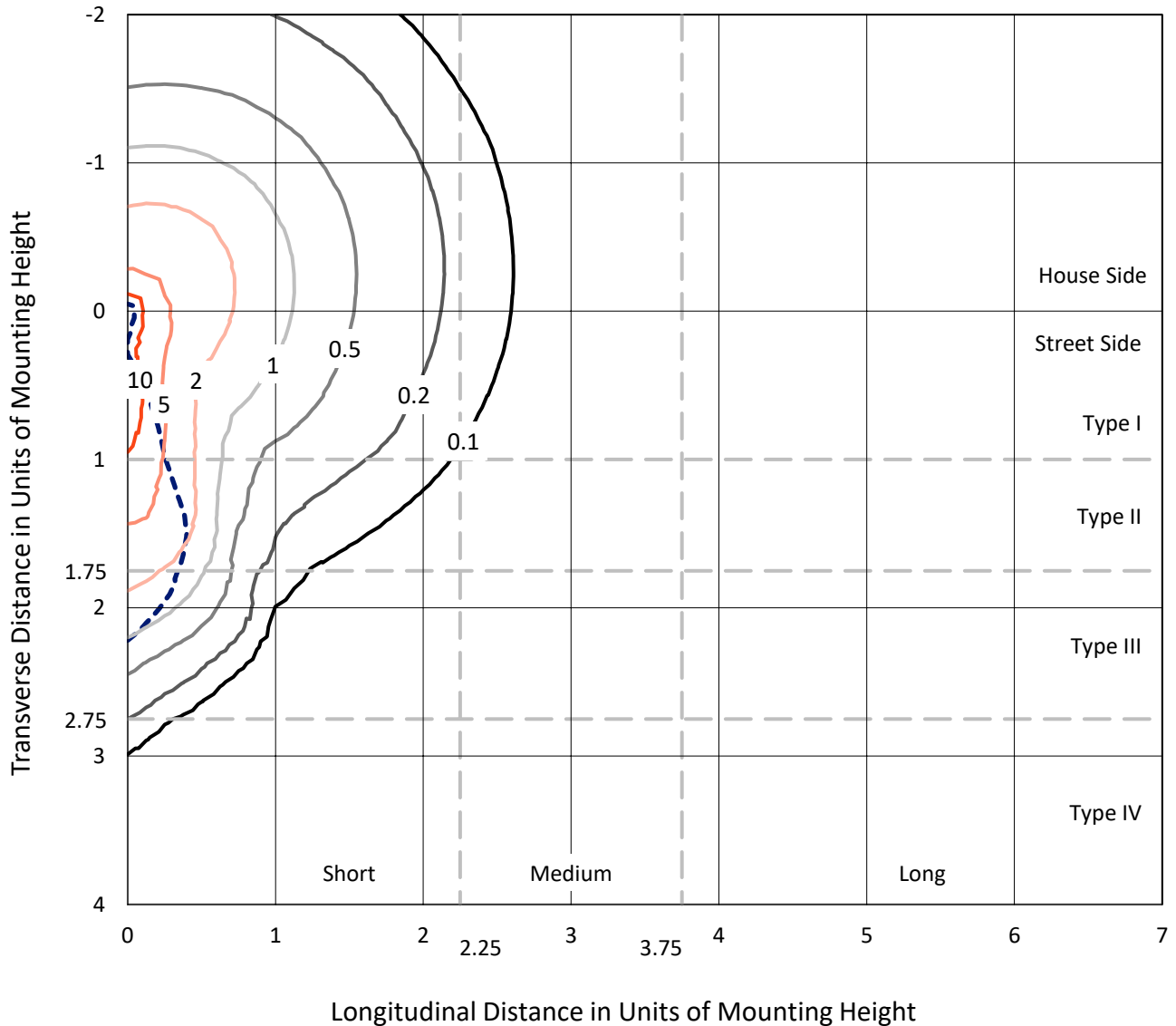
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

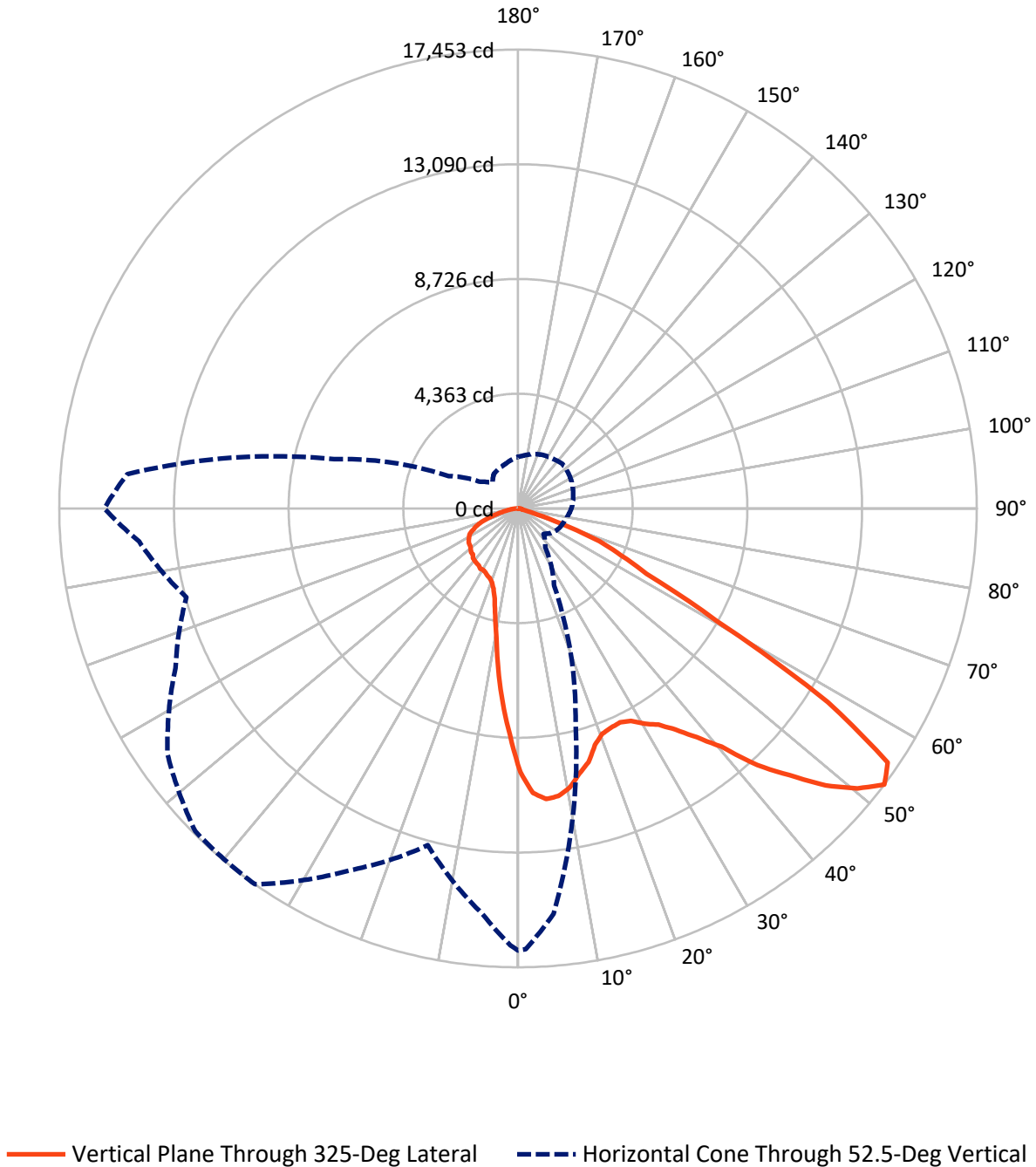
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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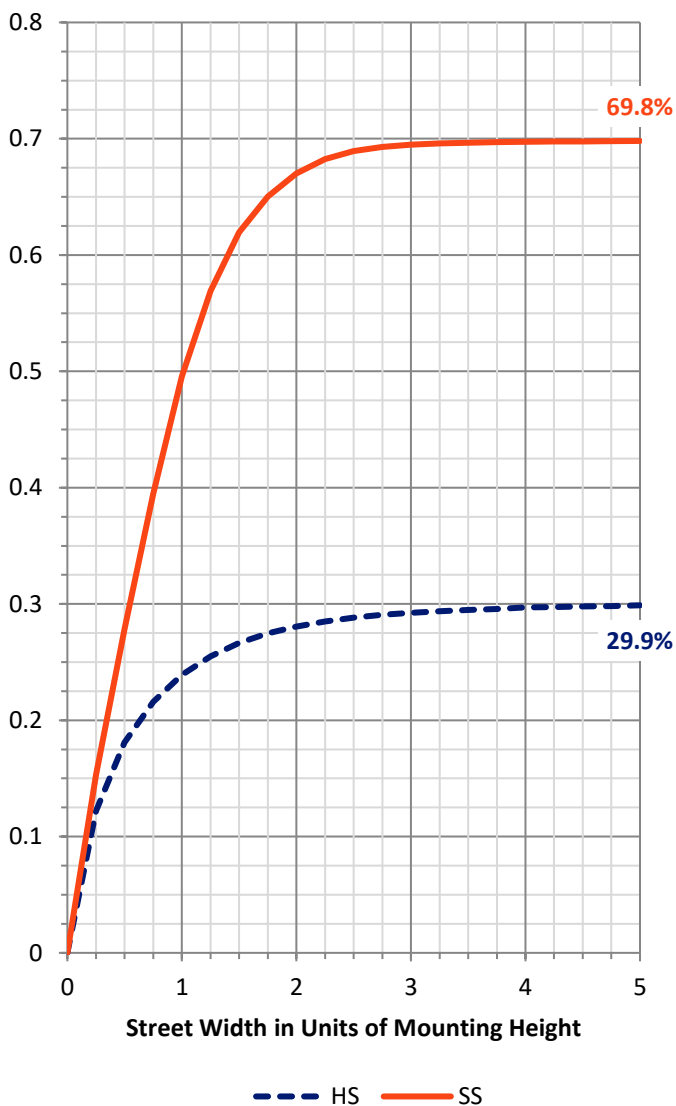
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6810.5	0.0	6810.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15781.4	0.0	15781.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	22591.9	0.0	22591.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.9	3.4
10°-20°	1658.3	7.3
20°-30°	2505.5	11.1
30°-40°	3620.5	16.0
40°-50°	4818.3	21.3
50°-60°	5389.4	23.9
60°-70°	3037.4	13.4
70°-80°	677.1	3.0
80°-90°	120.6	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°	22591.9	100.0
0°-180°	22591.9	100.0

Coefficient of Utilization



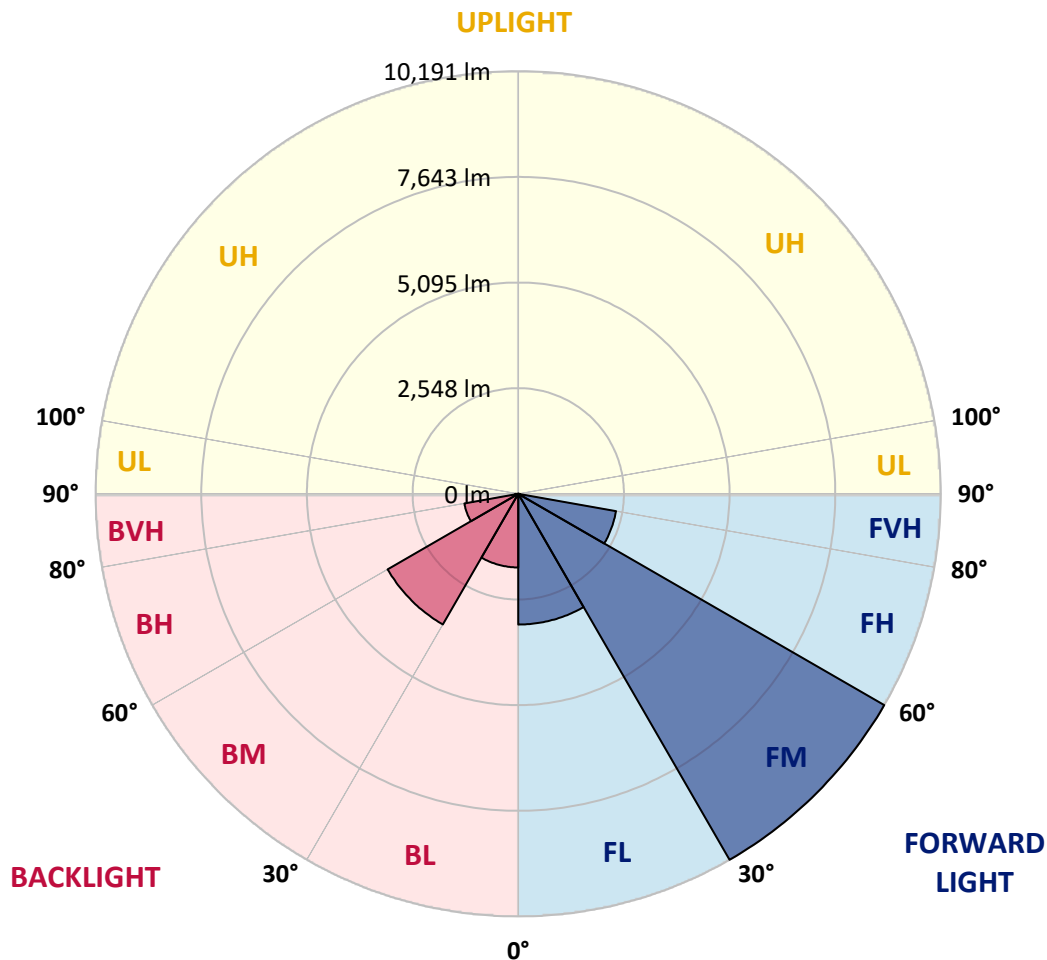
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3152.6	14.0			
FM (30°-60°)	10190.7	45.1			
FH (60°-80°)	2394.4	10.6			G2/5000
FVH (80°-90°)	43.7	0.2			G1/100
BL (0°-30°)	1776.0	7.9	B3/2500		
BM (30°-60°)	3637.5	16.1	B3/5000		
BH (60°-80°)	1320.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	76.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4
2.5°	10193.4	10357.1	10180.3	9866.0	9643.3	9440.3	9227.4	9184.9	8906.5	8857.5	8654.4
5°	9613.8	9577.8	9361.7	8949.1	8494.0	8081.4	7776.8	7482.2	7282.4	7049.9	7033.5
7.5°	8909.8	8700.2	8575.8	7950.4	7387.2	6738.9	6460.5	6012.0	5871.1	5661.6	5553.5
10°	8281.2	8127.2	7835.8	7210.4	6424.5	5995.6	5697.6	5455.2	5291.5	5075.4	4803.6
12.5°	7970.1	7907.8	7580.4	6611.2	6028.3	5569.9	5360.3	5124.6	4846.2	4499.1	4364.8
15°	8025.8	7816.1	7567.3	6496.6	5691.0	5249.0	4915.0	4620.2	4263.4	3932.6	3739.5
17.5°	8441.6	8281.2	7783.4	6568.6	5563.3	4924.8	4319.0	3883.5	3562.6	3264.6	3130.4
20°	9260.2	9027.7	8467.8	6660.3	5288.3	4472.9	3778.8	3241.7	2897.9	2740.7	2694.9
22.5°	10167.3	10029.7	9135.7	6866.6	5068.9	4053.8	3205.7	2668.7	2541.0	2498.4	2583.6
25°	11270.7	10913.8	10173.8	7203.8	4898.6	3696.9	2721.1	2423.1	2357.6	2400.2	2498.4
27.5°	12109.0	12014.0	10900.7	7521.4	4666.1	3267.9	2449.3	2252.8	2272.5	2315.0	2406.7
30°	13104.4	12623.1	11604.7	7740.8	4456.5	2973.2	2259.3	2207.0	2226.6	2298.7	2344.5
32.5°	13703.7	13523.6	12046.8	8071.6	4214.3	2717.8	2112.1	2062.9	2092.4	2200.5	2308.5
35°	14466.6	14109.7	12593.6	8156.7	4044.0	2616.3	2007.2	1971.2	2040.0	2115.3	2236.5
37.5°	15357.3	15111.7	13350.0	8097.8	3952.3	2511.6	1918.8	1902.5	1951.5	2056.4	2197.2
40°	15884.5	15809.2	13746.2	8133.8	3808.2	2419.9	1817.3	1837.0	1938.5	2020.4	2157.9
42.5°	16392.0	15900.9	14332.3	8120.6	3716.5	2295.4	1827.1	1804.3	1882.8	1977.8	2108.8
45°	16503.3	16015.4	14469.8	8029.0	3605.2	2174.2	1751.8	1761.7	1856.6	1974.5	2059.6
47.5°	16431.3	16071.1	14725.3	8002.8	3500.4	2089.1	1640.5	1758.4	1814.1	1909.0	2030.2
50°	16382.2	16362.5	14941.4	8127.2	3359.6	1954.8	1506.3	1715.8	1771.5	1866.4	1997.4
52.5°	16814.4	16771.9	15481.7	8454.7	3248.3	1810.8	1368.8	1607.7	1742.0	1833.7	1961.4
55°	17076.4	16889.7	16408.4	8857.5	3061.6	1620.9	1273.8	1473.5	1670.0	1751.8	1882.8
57.5°	15360.5	15232.8	14843.2	8268.0	2747.3	1372.0	1155.9	1336.0	1571.7	1699.4	1833.7
60°	12780.3	12580.5	11581.8	7027.0	2026.9	1067.5	1083.8	1227.9	1545.6	1594.7	1751.8
62.5°	12050.1	11555.6	10196.7	5655.0	1555.4	916.8	972.5	1129.7	1408.0	1489.9	1647.0
65°	9561.4	9194.7	7295.5	4083.3	1041.3	795.7	887.4	1018.4	1214.8	1375.3	1519.3
67.5°	5985.7	5635.3	3893.3	1932.0	726.9	681.1	792.4	930.0	1090.4	1234.5	1394.9
70°	3127.1	2744.0	1797.7	697.5	501.0	556.6	661.5	792.4	949.6	1067.5	1191.9
72.5°	1165.7	946.3	586.2	301.2	347.1	425.7	537.0	632.0	743.3	887.4	956.1
75°	180.1	153.9	150.6	183.4	235.8	307.8	383.1	478.1	576.3	668.0	713.9
77.5°	85.1	81.8	91.7	121.1	157.1	219.4	278.4	370.0	448.6	507.5	533.8
80°	55.7	52.4	59.0	81.8	117.9	163.7	222.7	284.9	356.9	406.1	399.5
82.5°	32.7	36.0	36.0	55.7	81.8	117.9	160.4	216.1	265.2	307.8	281.6
85°	19.7	16.4	16.4	32.7	55.7	95.0	134.3	91.7	95.0	95.0	108.1
87.5°	6.6	6.6	6.6	3.3	6.6	6.6	9.8	16.4	19.7	22.9	29.4
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°	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4
2.5°	8647.8	8749.4	8713.4	8585.7	8683.9	8700.2	8634.8	8860.7	8903.3	8834.5	8854.2
5°	7010.7	7036.8	7095.8	7220.2	7308.6	7413.4	7413.4	7419.9	7331.5	7554.2	7488.7
7.5°	5461.8	5478.2	5546.9	5812.2	5887.5	6087.2	6172.4	6113.4	5936.6	5861.3	5923.6
10°	4715.2	4620.2	4597.4	4630.1	4800.3	4885.5	4957.6	4937.9	4908.4	4849.5	4784.0
12.5°	4217.6	4148.7	4093.1	4014.5	4024.3	4106.2	4161.9	4116.0	4129.1	4142.2	4161.9
15°	3677.2	3628.1	3598.7	3480.7	3467.7	3523.3	3543.0	3569.1	3618.3	3621.5	3598.7
17.5°	3104.2	3061.6	3127.1	3192.6	3146.8	3150.0	3186.0	3209.0	3195.9	3136.9	3107.5
20°	2711.3	2757.1	2822.6	2884.8	2933.9	2963.4	2976.5	2940.5	2897.9	2776.8	2773.5
22.5°	2596.7	2655.6	2711.3	2806.2	2852.1	2927.4	2858.6	2776.8	2717.8	2658.8	2590.1
25°	2511.6	2560.6	2672.0	2708.0	2796.4	2858.6	2809.5	2727.7	2626.1	2541.0	2488.6
27.5°	2449.3	2505.0	2577.0	2675.3	2744.0	2780.0	2730.9	2698.1	2593.4	2491.9	2416.6
30°	2410.0	2469.0	2600.0	2681.8	2740.7	2770.2	2685.1	2645.8	2570.4	2485.3	2419.9
32.5°	2383.8	2436.2	2547.6	2652.3	2691.6	2691.6	2704.7	2658.8	2554.1	2410.0	2354.3
35°	2298.7	2370.7	2462.4	2583.6	2655.6	2698.1	2632.7	2580.3	2511.6	2364.2	2262.6
37.5°	2249.6	2298.7	2416.6	2531.1	2593.4	2639.3	2613.0	2521.3	2429.6	2308.5	2226.6
40°	2197.2	2275.8	2380.6	2488.6	2557.4	2603.2	2583.6	2475.5	2364.2	2249.6	2193.9
42.5°	2161.2	2213.5	2321.6	2442.7	2524.6	2613.0	2554.1	2419.9	2341.2	2184.1	2121.9
45°	2131.7	2216.8	2331.5	2380.6	2465.7	2557.4	2452.6	2370.7	2279.0	2164.4	2112.1
47.5°	2095.6	2174.2	2249.6	2380.6	2419.9	2462.4	2442.7	2311.8	2233.2	2108.8	2072.8
50°	2082.5	2112.1	2249.6	2321.6	2377.3	2419.9	2367.5	2269.2	2193.9	2066.2	1987.6
52.5°	2030.2	2085.8	2174.2	2269.2	2338.0	2390.3	2305.2	2243.0	2141.5	2007.2	1958.1
55°	1964.7	1997.4	2154.6	2252.8	2288.9	2324.9	2292.2	2190.6	2085.8	1948.3	1899.2
57.5°	1879.5	1954.8	2082.5	2220.1	2265.9	2285.6	2233.2	2151.3	2020.4	1899.2	1820.6
60°	1791.1	1869.7	2010.5	2121.9	2167.7	2239.8	2161.2	2112.1	1961.4	1827.1	1742.0
62.5°	1702.7	1791.1	1896.0	2036.7	2076.0	2105.5	2085.8	2017.1	1896.0	1745.3	1640.5
65°	1597.9	1663.4	1794.4	1866.4	1892.7	1961.4	1892.7	1866.4	1758.4	1614.3	1525.9
67.5°	1440.8	1496.5	1611.0	1679.8	1699.4	1728.9	1725.7	1696.2	1575.0	1476.8	1398.2
70°	1260.7	1309.8	1381.8	1463.7	1473.5	1509.5	1476.8	1470.2	1391.6	1257.4	1214.8
72.5°	1011.8	1057.7	1152.6	1188.6	1191.9	1205.0	1188.6	1165.7	1146.1	1005.3	962.7
75°	776.0	802.3	848.1	880.8	880.8	897.2	887.4	864.4	812.0	723.6	681.1
77.5°	540.3	566.5	625.5	645.0	641.8	648.3	618.9	595.9	517.3	471.5	435.5
80°	392.9	409.3	438.8	451.9	455.2	464.9	428.9	409.3	363.5	311.1	294.7
82.5°	284.9	294.7	298.0	314.4	314.4	298.0	288.1	268.5	235.8	203.0	190.0
85°	117.9	121.1	124.4	144.1	147.4	176.8	163.7	153.9	134.3	114.6	104.8
87.5°	29.4	32.7	42.6	36.0	42.6	42.6	45.8	52.4	52.4	42.6	42.6
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°	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4
2.5°	8929.5	8955.6	9289.7	9332.3	9496.0	9662.9	10000.2	10242.5	10439.0	10566.7	10602.8
5°	7557.4	7724.5	7878.4	8127.2	8353.2	8674.1	9044.1	9502.5	10078.8	10373.5	10491.4
7.5°	5917.0	6113.4	6336.1	6578.4	6909.1	7485.4	7979.9	8510.3	9247.1	9551.7	10013.3
10°	4829.9	5049.3	5343.9	5530.6	5930.1	6480.2	7056.5	7668.8	8372.9	8811.6	9345.3
12.5°	4269.9	4450.0	4721.8	5114.7	5412.7	5769.6	6198.5	6971.4	7979.9	8395.7	8762.5
15°	3651.1	3850.8	4165.1	4600.6	4957.6	5383.2	5864.6	6706.1	7780.1	8421.9	8733.0
17.5°	3140.2	3284.3	3615.0	3991.6	4400.9	4865.9	5556.8	6693.0	7989.7	8811.6	9319.1
20°	2786.5	2806.2	2986.3	3307.2	3863.9	4469.7	5366.8	6627.5	8661.0	9482.8	10124.7
22.5°	2563.9	2544.3	2547.6	2819.3	3209.0	4080.0	5068.9	6850.2	9424.0	10550.4	10982.6
25°	2452.6	2400.2	2367.5	2426.4	2780.0	3618.3	4842.9	7144.9	10245.8	11431.2	11961.7
27.5°	2393.6	2301.9	2236.5	2246.3	2505.0	3385.8	4702.1	7272.6	11061.1	12659.1	12845.7
30°	2370.7	2256.1	2161.2	2128.4	2298.7	3061.6	4400.9	7492.0	11791.4	13333.6	13494.1
32.5°	2288.9	2148.1	2056.4	2026.9	2095.6	2776.8	4184.7	7649.1	12436.5	14067.1	14011.5
35°	2193.9	2076.0	1961.4	1905.7	1954.8	2593.4	4011.2	7573.9	13196.1	14636.9	14607.4
37.5°	2184.1	2030.2	1935.2	1843.5	1840.3	2367.5	3775.5	7645.9	13680.7	15658.5	15255.7
40°	2098.9	2000.7	1876.3	1801.0	1758.4	2252.8	3546.3	7475.6	14391.3	16071.1	15674.9
42.5°	2102.2	1954.8	1846.8	1758.4	1715.8	2085.8	3389.1	7429.8	14640.1	16742.3	15871.3
45°	2049.8	1905.7	1814.1	1709.3	1686.3	1958.1	3238.5	7216.9	15078.9	16775.1	15625.8
47.5°	1997.4	1869.7	1771.5	1647.0	1594.7	1912.3	3120.6	7040.1	14849.8	16467.3	15285.3
50°	1961.4	1814.1	1722.4	1634.0	1486.6	1833.7	2966.6	6997.5	14528.8	16051.4	14653.2
52.5°	1899.2	1768.2	1673.3	1604.5	1368.8	1761.7	2907.7	7246.4	14921.8	15740.3	14469.8
55°	1840.3	1706.0	1584.9	1450.6	1270.5	1571.7	2744.0	7478.9	15494.8	16457.5	15301.6
57.5°	1778.0	1650.3	1519.3	1358.9	1175.5	1375.3	2573.7	7521.4	14420.7	15209.9	14525.5
60°	1696.2	1532.5	1434.2	1224.7	1074.0	1139.5	2040.0	6630.8	11185.5	12701.7	12724.6
62.5°	1604.5	1427.6	1342.5	1097.0	969.3	982.4	1663.4	5573.2	9073.6	10514.3	11139.7
65°	1483.3	1313.1	1211.5	1015.1	894.0	851.4	1218.1	4083.3	6892.7	8530.0	9240.6
67.5°	1326.2	1165.7	1038.0	884.1	799.0	730.2	831.7	2298.7	4070.2	5727.0	5943.1
70°	1159.2	1021.7	887.4	759.7	664.7	615.6	609.0	1018.4	1945.1	3081.3	3507.0
72.5°	913.6	815.3	707.3	612.3	550.1	478.1	435.5	422.4	658.2	1254.1	1732.2
75°	654.9	573.0	510.8	448.6	402.8	363.5	330.7	301.2	275.1	314.4	432.2
77.5°	412.6	383.1	334.0	317.6	291.4	281.6	268.5	252.1	232.5	219.4	219.4
80°	278.4	258.7	242.3	239.0	229.2	226.0	229.2	212.8	193.2	176.8	183.4
82.5°	186.7	183.4	180.1	176.8	180.1	183.4	190.0	186.7	170.3	160.4	163.7
85°	111.3	117.9	124.4	131.0	144.1	127.7	104.8	88.4	78.6	72.0	68.7
87.5°	42.6	59.0	52.4	49.1	52.4	49.1	45.8	42.6	36.0	32.7	32.7
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°	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4	10026.4
2.5°	10841.7	10907.3	10962.9	10949.8	10835.2	10681.3	10619.1	10301.5	10236.0	10193.4
5°	10989.1	11368.9	11450.8	11401.7	11103.7	10727.2	10360.4	9895.5	9623.7	9613.8
7.5°	10717.3	11185.5	11332.9	11444.2	11048.1	10393.2	9764.5	9067.0	8896.8	8909.8
10°	10026.4	10773.0	11136.5	11251.1	10795.9	10229.4	9358.4	8651.1	8287.7	8281.2
12.5°	9643.3	10229.4	10331.0	10491.4	10357.1	9784.1	9122.7	8330.3	7976.6	7970.1
15°	9302.7	9689.2	9718.6	9944.6	10016.6	9630.2	9184.9	8340.0	8055.2	8025.8
17.5°	9600.8	9332.3	9220.9	9250.4	9463.2	9604.0	9545.1	8896.8	8605.3	8441.6
20°	9800.5	9201.3	8864.0	8896.8	9148.9	9662.9	10082.1	9702.2	9240.6	9260.2
22.5°	10334.2	9220.9	8693.7	8657.7	9057.2	9970.7	10687.9	10720.6	10275.3	10167.3
25°	11133.2	9446.8	8641.3	8631.5	9014.6	10301.5	11395.2	11925.6	11470.5	11270.7
27.5°	11775.0	9800.5	8805.1	8837.8	9148.9	10570.0	11997.7	12701.7	12354.6	12109.0
30°	12338.2	10167.3	9034.3	8883.6	9509.1	10710.8	12256.3	13585.8	13307.5	13104.4
32.5°	12570.7	10687.9	9397.7	9148.9	9807.0	10881.0	12793.4	14443.7	14204.6	13703.7
35°	12963.7	10979.3	9594.2	9574.5	10327.7	11290.4	13045.5	15010.2	14911.9	14466.6
37.5°	13278.0	11274.0	10291.7	10075.6	11041.5	11978.0	13451.5	15792.8	15566.8	15357.3
40°	13520.3	11801.2	10943.3	11228.1	11919.1	12603.4	13824.8	15841.9	16493.5	15884.5
42.5°	13297.6	12272.7	12014.0	12695.1	13350.0	13317.3	13867.4	16221.7	16709.6	16392.0
45°	13241.9	13071.7	13707.0	14325.8	14476.4	13909.9	13562.8	15802.6	16644.2	16503.3
47.5°	13107.7	13857.5	14964.3	15972.9	15743.6	14306.2	13199.4	15727.3	16683.4	16431.3
50°	13061.8	14027.8	15894.3	16876.6	16739.1	14650.0	13029.1	15242.7	16405.1	16382.2
52.5°	13058.6	14378.2	16280.7	17367.8	17452.9	15193.6	13261.6	15488.2	16621.2	16814.4
55°	13205.9	14266.9	16231.5	17096.0	17063.3	14951.2	13287.8	15651.9	16886.4	17076.4
57.5°	12456.0	12780.3	13395.9	14080.2	13903.4	12384.0	11866.7	14469.8	15498.1	15360.5
60°	10756.6	9741.5	9047.3	9014.6	8670.8	8196.0	9712.1	12914.5	12914.5	12780.3
62.5°	9420.7	6395.1	5494.5	5239.1	5484.8	6031.6	9368.3	12560.9	12203.9	12050.1
65°	8238.6	4882.2	3971.9	3899.9	4325.6	5150.7	8471.0	10700.9	10072.3	9561.4
67.5°	5301.4	3575.7	2953.6	2825.8	3340.0	3782.0	5638.6	6581.7	6185.5	5985.7
70°	3418.6	2328.2	1643.8	1542.3	1742.0	2331.5	3601.9	3837.6	3261.4	3127.1
72.5°	1617.6	1005.3	576.3	474.8	533.8	890.7	1424.4	1532.5	1273.8	1165.7
75°	514.1	370.0	235.8	203.0	193.2	229.2	327.5	252.1	183.4	180.1
77.5°	229.2	219.4	186.7	157.1	137.5	114.6	95.0	78.6	81.8	85.1
80°	190.0	173.5	153.9	137.5	114.6	88.4	68.7	52.4	52.4	55.7
82.5°	167.0	150.6	134.3	114.6	98.3	72.0	52.4	36.0	32.7	32.7
85°	72.0	85.1	91.7	98.3	78.6	59.0	36.0	22.9	19.7	19.7
87.5°	29.4	26.2	22.9	19.7	16.4	16.4	13.1	9.8	6.6	6.6
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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