

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639029

Luminaire Tested: GWS-SA5B-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7013.1 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

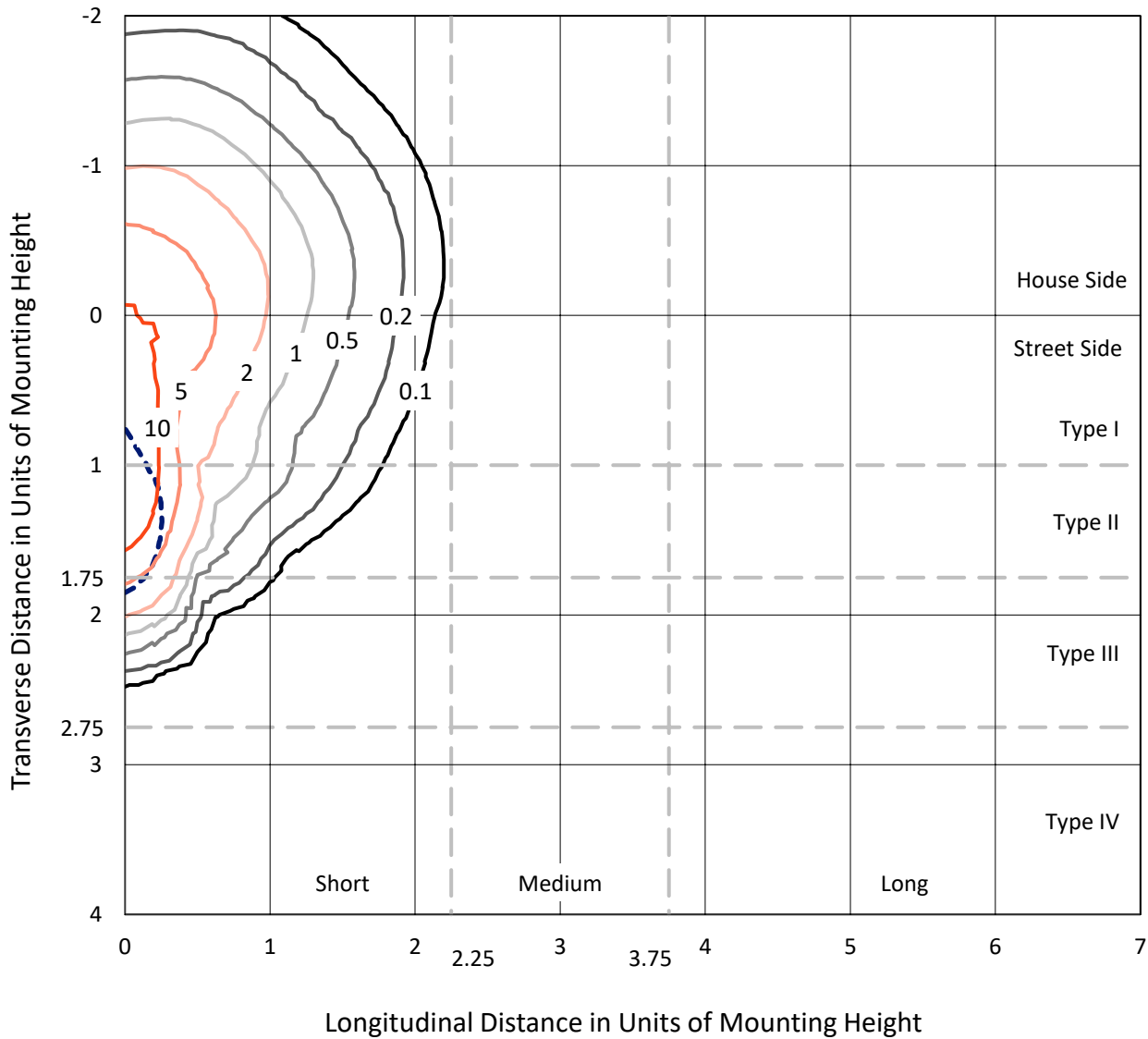
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

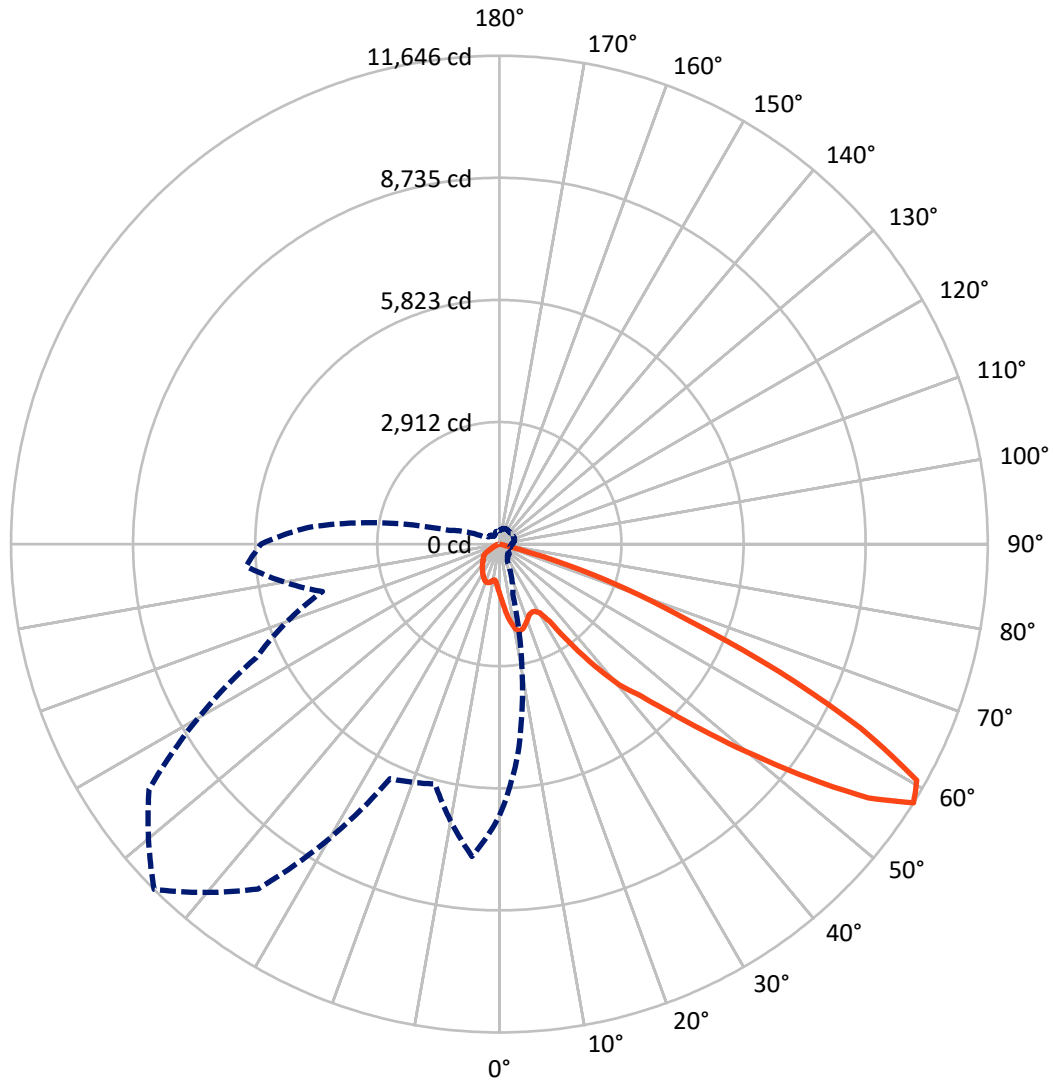
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1510.9	0.0	1510.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5502.2	0.0	5502.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	7013.1	0.0	7013.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.7
10°-20°	387.5	5.5
20°-30°	628.9	9.0
30°-40°	965.3	13.8
40°-50°	1541.6	22.0
50°-60°	2158.6	30.8
60°-70°	1106.8	15.8
70°-80°	106.6	1.5
80°-90°	0.0	0.0
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°	7013.1	100.0
0°-180°	7013.1	100.0

Coefficient of Utilization



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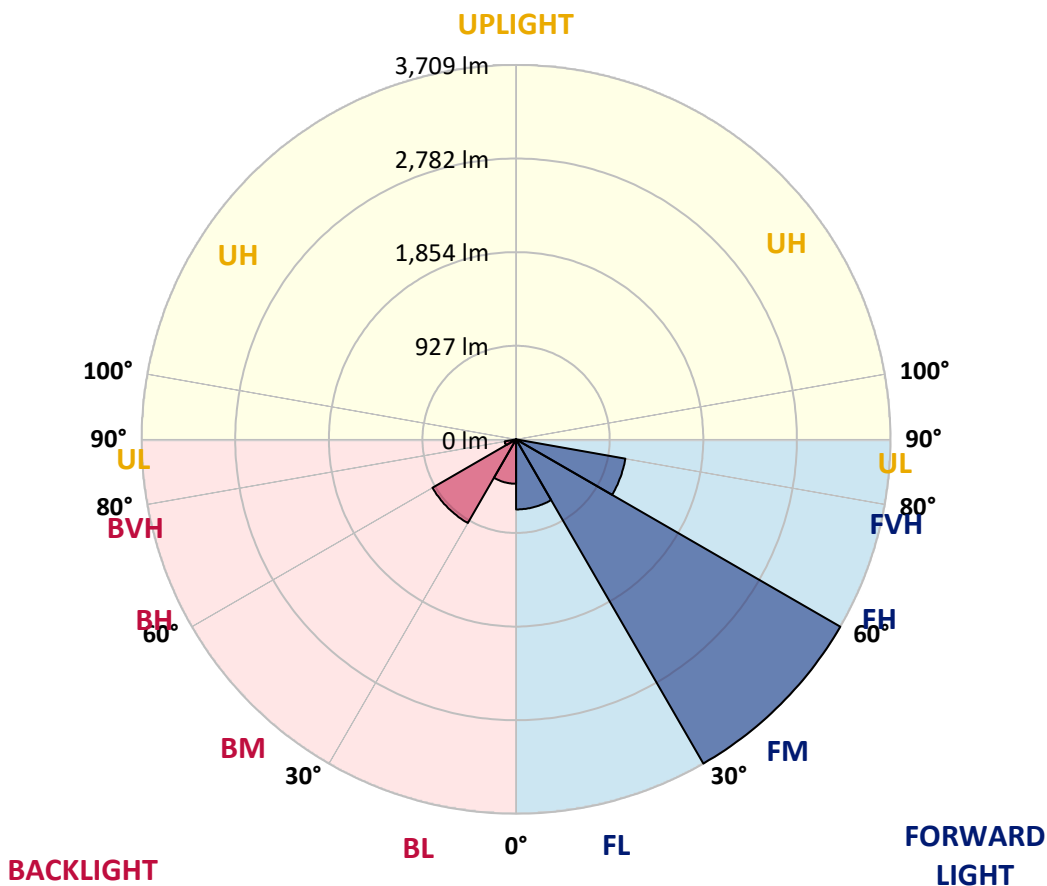
CATALOG NUMBER: GWS-SA5B-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.3	9.9			
FM (30°-60°)	3708.7	52.9			
FH (60°-80°)	1099.2	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	439.9	6.3	B1/500		
BM (30°-60°)	956.8	13.6	B1/1000		
BH (60°-80°)	114.1	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6
2.5°	1323.8	1321.0	1311.6	1279.8	1260.1	1229.1	1206.6	1177.6	1145.7	1126.0	1106.3
5°	1464.5	1457.0	1431.6	1358.5	1302.3	1241.3	1192.6	1139.1	1081.9	1044.4	1009.7
7.5°	1599.5	1588.2	1554.5	1430.7	1345.4	1258.2	1188.8	1111.0	1030.4	974.1	931.0
10°	1731.7	1706.3	1652.9	1501.0	1385.7	1280.7	1199.1	1110.1	1015.4	944.1	896.3
12.5°	1840.4	1821.7	1748.5	1567.6	1419.5	1285.4	1185.1	1102.6	1038.8	991.0	946.9
15°	1934.2	1913.5	1844.2	1627.6	1448.5	1266.6	1126.0	1053.8	1064.1	1082.9	1045.4
17.5°	2020.4	1998.9	1923.9	1677.3	1459.8	1220.7	1043.5	1008.8	1066.0	1136.3	1122.3
20°	2109.5	2085.1	1993.2	1717.6	1456.0	1148.5	960.1	970.4	1051.0	1131.6	1139.1
22.5°	2213.6	2188.2	2081.4	1769.2	1453.2	1062.2	887.9	936.6	1022.9	1091.3	1104.4
25°	2351.4	2321.4	2204.2	1845.1	1460.7	983.5	836.3	903.8	975.1	1036.9	1044.4
27.5°	2533.3	2494.8	2345.8	1938.9	1476.6	921.6	813.8	858.8	914.1	969.4	976.0
30°	2770.5	2721.7	2508.0	2020.4	1469.1	878.5	798.8	813.8	846.6	891.6	892.6
32.5°	3048.0	2981.4	2689.8	2090.7	1404.5	846.6	778.2	767.9	775.4	810.0	816.6
35°	3374.3	3288.0	2890.5	2157.3	1286.3	784.7	740.7	706.0	703.2	720.0	736.0
37.5°	3748.3	3645.2	3143.6	2242.6	1146.6	720.0	685.4	650.7	635.7	644.1	668.5
40°	4093.4	3979.0	3408.0	2345.8	1004.1	661.9	620.7	585.0	567.2	570.0	600.0
42.5°	4498.4	4380.2	3731.5	2480.8	886.0	622.5	553.2	516.6	493.2	506.3	541.0
45°	5113.4	4979.3	4203.0	2598.0	792.2	613.2	494.1	442.5	431.3	453.8	495.0
47.5°	5953.5	5789.4	4850.9	2669.2	712.5	621.6	452.8	382.5	385.3	410.6	451.9
50°	6786.9	6609.7	5600.0	2575.5	646.9	604.7	432.2	335.6	353.5	376.0	413.5
52.5°	7359.8	7129.2	5964.7	2304.5	586.9	541.0	430.3	291.6	325.3	332.8	364.7
55°	7382.3	7098.2	5778.1	1817.0	505.3	456.6	410.6	255.0	294.4	297.2	324.4
57.5°	6471.0	6214.1	5049.7	1247.9	449.1	334.7	327.2	223.1	241.9	265.3	282.2
60°	4923.1	4704.6	3776.5	571.9	341.3	212.8	224.1	192.2	180.9	215.6	232.5
62.5°	3015.2	2875.5	2265.1	253.1	217.5	113.4	135.9	152.8	135.9	149.1	163.1
65°	1197.3	1135.4	859.7	107.8	89.1	57.2	61.9	89.1	95.6	105.0	118.1
67.5°	208.1	196.9	144.4	47.8	36.6	34.7	30.0	41.3	58.1	64.7	75.0
70°	27.2	26.3	23.4	19.7	18.8	16.9	13.1	26.3	39.4	41.3	47.8
72.5°	6.6	5.6	5.6	4.7	5.6	1.9	1.9	14.1	28.1	29.1	33.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	17.8	19.7	23.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6
2.5°	1090.4	1071.6	1065.1	1055.7	1043.5	1047.2	1030.4	1024.7	1033.2	1044.4	1041.6
5°	991.0	970.4	956.3	934.7	931.0	922.6	916.9	909.4	918.8	931.9	934.7
7.5°	912.2	894.4	880.4	873.8	869.1	865.4	854.1	848.5	848.5	854.1	858.8
10°	878.5	865.4	862.5	864.4	871.9	871.0	860.7	853.2	843.8	839.1	844.7
12.5°	925.4	903.8	900.1	901.0	910.4	909.4	898.2	888.8	886.9	888.8	906.6
15°	1005.1	972.2	947.9	943.2	947.9	946.0	937.6	931.9	934.7	961.9	991.9
17.5°	1076.3	1025.7	981.6	964.7	963.8	961.0	952.6	950.7	964.7	1015.4	1059.4
20°	1096.9	1047.2	984.4	962.9	958.2	955.4	946.0	948.8	966.6	1027.6	1065.1
22.5°	1069.7	1021.9	956.3	934.7	931.0	930.1	920.7	924.4	939.4	992.9	1023.8
25°	1018.2	977.9	909.4	890.7	890.7	888.8	880.4	882.2	891.6	938.5	968.5
27.5°	955.4	916.9	859.7	841.0	843.8	846.6	836.3	833.5	841.0	885.0	902.9
30°	883.2	856.0	811.0	794.1	793.2	804.4	790.4	786.6	796.9	831.6	835.4
32.5°	812.9	799.7	767.9	754.7	755.7	757.5	750.0	750.0	759.4	778.2	777.2
35°	744.4	736.0	730.4	721.0	720.0	716.3	716.3	718.2	728.5	735.0	722.9
37.5°	678.8	687.2	693.8	684.4	676.9	676.9	676.9	685.4	694.7	691.9	671.3
40°	620.7	638.5	659.1	648.8	631.0	630.0	633.8	647.8	661.9	645.0	626.3
42.5°	571.0	593.5	622.5	616.9	597.2	594.4	597.2	615.0	626.3	604.7	584.1
45°	522.2	550.3	585.0	585.0	563.5	560.7	561.6	585.0	591.6	566.3	540.0
47.5°	481.0	511.9	548.5	548.5	530.7	525.0	529.7	554.1	558.8	523.2	498.8
50°	441.6	475.3	515.7	512.8	500.7	496.0	504.4	530.7	525.0	485.7	460.3
52.5°	391.9	427.5	482.8	485.7	479.1	480.0	490.3	507.2	491.3	443.5	421.9
55°	346.9	383.5	438.8	453.8	453.8	452.8	457.5	470.7	457.5	400.3	374.1
57.5°	298.1	329.1	375.0	378.8	381.6	371.3	377.8	395.6	389.1	340.3	325.3
60°	244.7	271.0	297.2	300.0	287.8	266.3	278.5	299.1	303.8	267.2	250.3
62.5°	173.4	198.8	229.7	229.7	217.5	195.9	211.9	229.7	223.1	185.6	175.3
65°	129.4	152.8	176.3	186.6	176.3	161.3	173.4	186.6	176.3	145.3	130.3
67.5°	83.4	99.4	113.4	121.9	123.8	121.9	127.5	123.8	111.6	90.9	82.5
70°	50.6	59.1	66.6	74.1	79.7	82.5	85.3	76.9	64.7	53.4	50.6
72.5°	36.6	44.1	50.6	56.3	62.8	64.7	64.7	59.1	47.8	37.5	34.7
75°	25.3	31.9	37.5	41.3	46.9	48.8	48.8	44.1	35.6	27.2	24.4
77.5°	0.9	6.6	6.6	5.6	7.5	9.4	9.4	11.3	10.3	7.5	6.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6
2.5°	1047.2	1081.0	1090.4	1125.1	1156.0	1186.9	1224.4	1246.9	1280.7	1304.1	1317.3
5°	944.1	972.2	1006.0	1057.6	1111.0	1170.1	1241.3	1303.2	1381.0	1438.2	1457.0
7.5°	869.1	905.7	945.1	1009.7	1082.9	1161.6	1261.9	1363.2	1482.3	1560.1	1609.8
10°	855.0	892.6	945.1	1008.8	1085.7	1175.7	1298.5	1429.8	1578.8	1673.5	1729.8
12.5°	922.6	962.9	985.4	1014.4	1072.6	1172.9	1330.4	1497.3	1672.6	1775.7	1835.7
15°	1021.9	1057.6	1021.0	984.4	1021.9	1142.9	1348.2	1553.5	1755.1	1874.2	1936.0
17.5°	1090.4	1093.2	1013.5	935.7	946.0	1088.5	1354.8	1609.8	1843.2	1967.9	2032.6
20°	1083.8	1061.3	980.7	894.4	862.5	1018.2	1347.3	1659.5	1932.3	2062.6	2126.4
22.5°	1033.2	1006.9	938.5	854.1	792.2	934.7	1334.1	1704.5	2013.9	2162.0	2222.0
25°	972.2	944.1	887.9	813.8	747.2	854.1	1323.8	1766.3	2117.0	2291.4	2338.3
27.5°	901.0	876.6	828.8	775.4	728.5	793.2	1321.0	1847.9	2241.7	2448.9	2481.7
30°	831.6	809.1	771.6	740.7	721.0	757.5	1311.6	1935.1	2390.8	2629.8	2665.5
32.5°	765.0	742.5	719.1	714.4	715.4	744.4	1279.8	2021.4	2568.0	2892.4	2918.6
35°	707.9	681.6	672.2	683.5	704.1	721.9	1189.8	2092.6	2758.3	3178.3	3199.9
37.5°	653.5	627.2	626.3	653.5	676.0	687.2	1083.8	2162.9	3015.2	3468.9	3496.1
40°	603.8	577.5	586.9	619.7	637.5	643.2	955.4	2269.8	3287.1	3775.5	3760.5
42.5°	561.6	534.4	540.0	582.2	598.2	613.2	837.2	2358.9	3548.6	4066.2	4061.5
45°	520.3	499.7	496.0	541.9	556.0	616.0	751.0	2427.3	3885.2	4436.5	4444.0
47.5°	480.0	464.1	465.0	484.7	519.4	630.0	677.9	2472.3	4373.7	5023.4	4893.1
50°	443.5	431.3	441.6	419.1	496.0	612.2	615.0	2463.0	4919.3	5585.9	5324.4
52.5°	403.1	400.3	405.0	350.6	458.5	540.0	556.0	2338.3	5175.3	5970.3	5821.3
55°	361.9	361.0	323.5	280.3	383.5	431.3	476.3	1951.0	5166.9	6174.7	6355.7
57.5°	313.1	305.6	245.6	228.8	298.1	300.0	434.1	1277.9	4579.0	5685.3	6060.3
60°	237.2	231.6	180.0	185.6	208.1	192.2	346.0	636.6	3422.1	4429.0	4851.8
62.5°	164.1	156.6	134.1	143.4	134.1	109.7	211.9	315.0	2072.9	2796.7	3180.2
65°	120.0	111.6	91.9	78.8	62.8	62.8	80.6	120.9	802.5	1188.8	1433.5
67.5°	74.1	70.3	54.4	39.4	38.4	41.3	42.2	60.0	129.4	206.3	252.2
70°	47.8	44.1	36.6	25.3	23.4	24.4	25.3	28.1	32.8	35.6	43.1
72.5°	32.8	30.9	26.3	14.1	11.3	12.2	13.1	13.1	15.9	15.0	17.8
75°	23.4	21.6	18.8	6.6	3.8	4.7	5.6	4.7	5.6	3.8	4.7
77.5°	6.6	6.6	4.7	0.9	0.0	0.9	1.9	1.9	0.9	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6
2.5°	1351.0	1372.6	1381.0	1368.8	1379.1	1362.3	1355.7	1330.4	1328.5	1323.8
5°	1532.9	1581.7	1610.7	1628.5	1607.9	1585.4	1551.6	1493.5	1475.7	1464.5
7.5°	1712.0	1787.9	1837.6	1861.0	1855.4	1809.5	1748.5	1651.0	1616.3	1599.5
10°	1867.6	1960.4	2020.4	2049.5	2037.3	1997.0	1909.8	1787.9	1742.0	1731.7
12.5°	1976.4	2061.7	2102.9	2128.2	2129.2	2113.2	2030.7	1907.9	1853.5	1840.4
15°	2044.8	2081.4	2082.3	2097.3	2123.6	2159.2	2120.7	2012.0	1953.9	1934.2
17.5°	2087.9	2047.6	2006.4	2010.1	2053.2	2147.9	2187.3	2103.9	2042.0	2020.4
20°	2118.9	1991.4	1914.5	1915.4	1959.5	2102.9	2233.3	2192.9	2129.2	2109.5
22.5°	2138.6	1941.7	1832.0	1829.2	1876.0	2049.5	2275.4	2298.9	2236.1	2213.6
25°	2178.9	1918.2	1782.3	1798.2	1839.5	2032.6	2332.6	2439.5	2381.4	2351.4
27.5°	2251.1	1941.7	1777.6	1814.2	1861.0	2082.3	2432.0	2627.0	2567.0	2533.3
30°	2375.8	2029.8	1849.8	1900.4	1956.7	2212.6	2598.9	2888.6	2802.3	2770.5
32.5°	2576.4	2212.6	2072.9	2181.7	2236.1	2426.4	2849.2	3182.1	3111.7	3048.0
35°	2853.0	2629.8	2613.9	2867.0	2853.9	2831.4	3156.7	3542.1	3436.1	3374.3
37.5°	3233.6	3301.1	3419.3	3670.5	3662.1	3490.5	3560.8	3882.4	3828.0	3748.3
40°	3709.0	3852.4	4053.0	4413.1	4300.6	4084.9	4056.8	4231.2	4187.1	4093.4
42.5°	3989.3	4236.8	4619.3	4942.8	4852.8	4475.9	4444.0	4697.1	4600.6	4498.4
45°	4119.6	4549.9	5300.0	5737.8	5465.0	4735.6	4723.4	5304.7	5250.3	5113.4
47.5°	4179.6	4865.9	6096.9	6759.8	6249.7	4963.4	4919.3	6186.0	6114.7	5953.5
50°	4246.2	5301.9	7057.0	7943.9	7197.6	5221.2	5253.1	7007.3	6977.3	6786.9
52.5°	4392.4	5763.1	8239.2	9297.7	8347.0	5625.3	5826.0	7781.7	7579.2	7359.8
55°	4611.8	6265.7	9469.3	10680.6	9519.9	6168.2	6445.7	8193.3	7625.1	7382.3
57.5°	4369.0	6391.3	10197.8	11646.3	10040.3	6170.0	5921.6	7479.8	6706.3	6471.0
60°	3467.1	5946.0	9917.4	11437.2	9596.8	5479.1	4534.0	5840.0	5080.6	4923.1
62.5°	2343.9	4986.8	8730.5	9672.7	8213.9	4309.9	2946.7	3798.0	3145.5	3015.2
65°	1284.4	3720.2	7054.1	7317.6	6428.8	3010.5	1516.0	1648.2	1255.4	1197.3
67.5°	354.4	2589.5	5190.3	4854.6	4510.6	1960.4	391.9	294.4	210.0	208.1
70°	89.1	1712.9	3109.9	3205.5	2765.8	1255.4	75.0	35.6	28.1	27.2
72.5°	37.5	736.9	1475.7	1696.0	1415.7	581.3	27.2	10.3	8.4	6.6
75°	4.7	59.1	125.6	190.3	130.3	62.8	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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