

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: P636774

Luminaire Tested: GWS-SA4B-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636774
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-SA4B-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.4 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

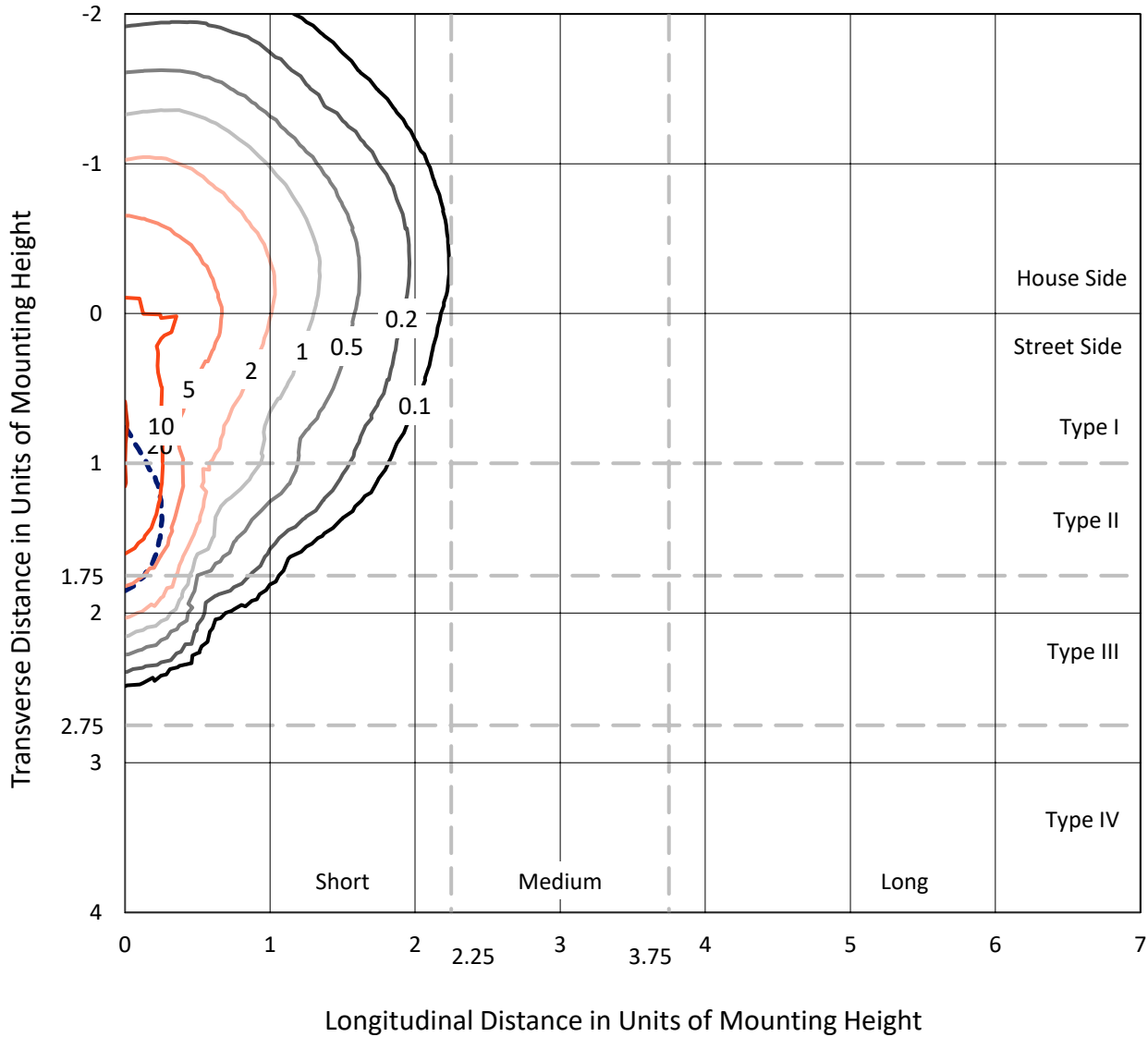
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

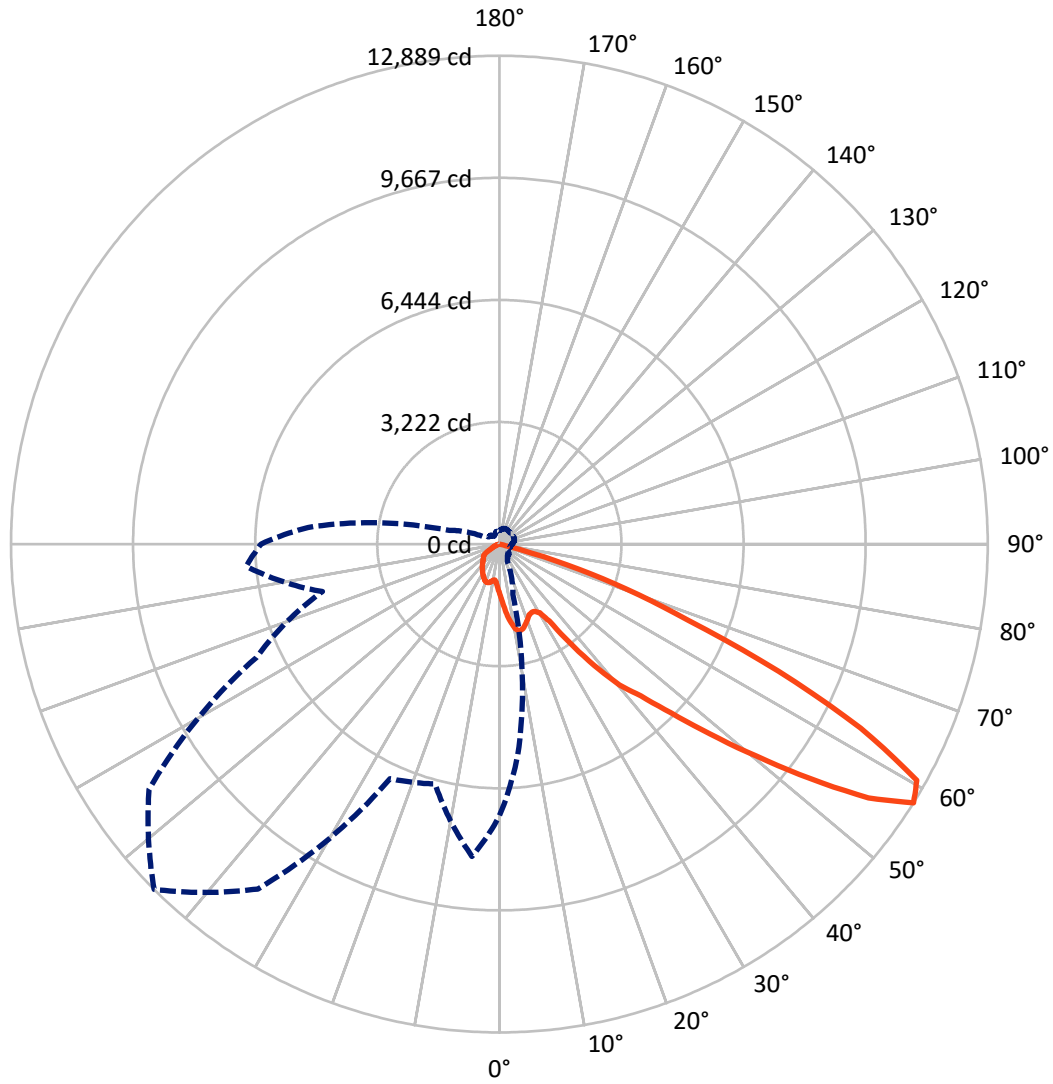
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 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	1672.1	0.0	1672.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6089.3	0.0	6089.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	7761.4	0.0	7761.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.7
10°-20°	428.9	5.5
20°-30°	696.1	9.0
30°-40°	1068.3	13.8
40°-50°	1706.1	22.0
50°-60°	2388.9	30.8
60°-70°	1224.8	15.8
70°-80°	117.9	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°	7761.4	100.0
0°-180°	7761.4	100.0

Coefficient of Utilization



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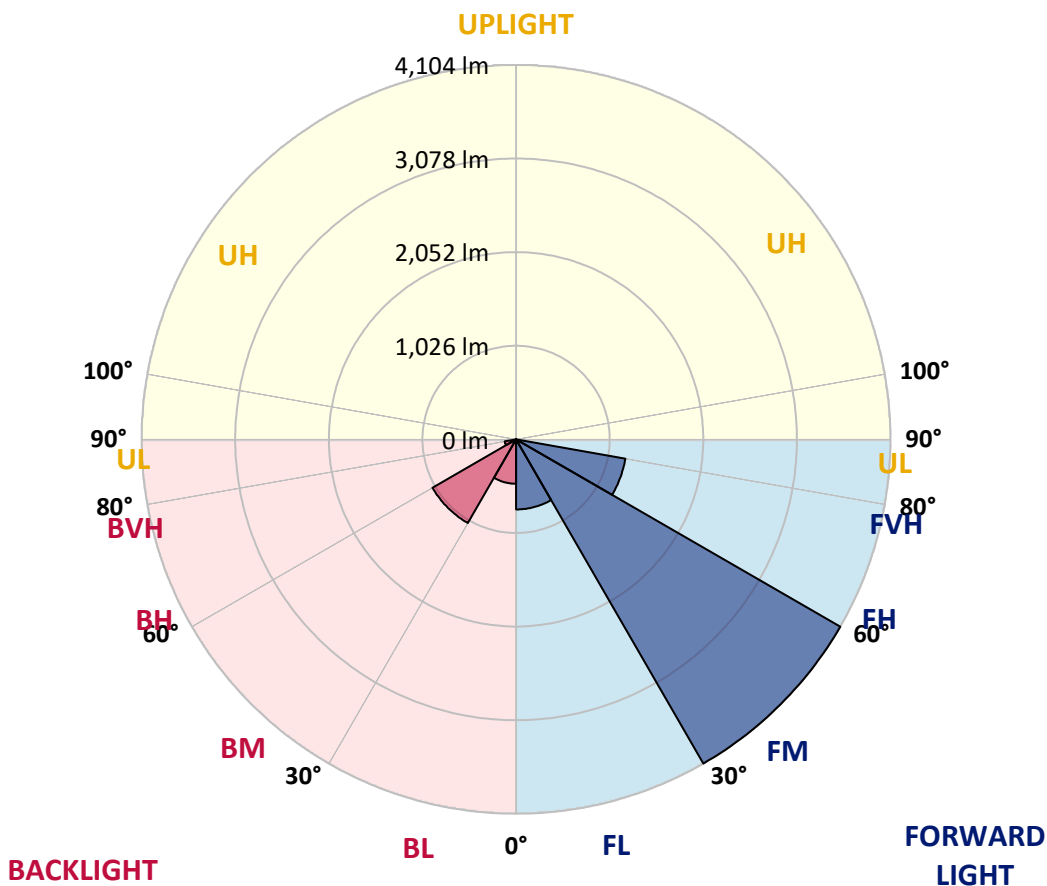
CATALOG NUMBER: GWS-SA4B-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.4	9.9			
FM (30°-60°)	4104.4	52.9			
FH (60°-80°)	1216.5	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	486.9	6.3	B1/500		
BM (30°-60°)	1058.9	13.6	B2/2500		
BH (60°-80°)	126.3	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: 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°	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8
2.5°	1465.1	1462.0	1451.6	1416.3	1394.5	1360.3	1335.4	1303.2	1267.9	1246.1	1224.4
5°	1620.7	1612.4	1584.4	1503.5	1441.2	1373.8	1319.8	1260.7	1197.4	1155.9	1117.5
7.5°	1770.1	1757.7	1720.3	1583.4	1488.9	1392.4	1315.7	1229.5	1140.3	1078.1	1030.3
10°	1916.4	1888.4	1829.3	1661.2	1533.6	1417.3	1327.1	1228.5	1123.7	1044.9	991.9
12.5°	2036.8	2016.0	1935.1	1734.9	1570.9	1422.5	1311.5	1220.2	1149.6	1096.7	1048.0
15°	2140.5	2117.7	2040.9	1801.3	1603.1	1401.8	1246.1	1166.3	1177.7	1198.4	1156.9
17.5°	2236.0	2212.1	2129.1	1856.2	1615.5	1350.9	1154.8	1116.4	1179.7	1257.6	1242.0
20°	2334.6	2307.6	2205.9	1900.9	1611.4	1271.0	1062.5	1073.9	1163.1	1252.4	1260.7
22.5°	2449.7	2421.7	2303.4	1957.9	1608.3	1175.6	982.6	1036.6	1132.0	1207.8	1222.3
25°	2602.3	2569.1	2439.4	2042.0	1616.6	1088.4	925.5	1000.2	1079.1	1147.6	1155.9
27.5°	2803.6	2761.0	2596.1	2145.7	1634.2	1020.0	900.6	950.4	1011.7	1072.9	1080.1
30°	3066.1	3012.1	2775.6	2236.0	1625.9	972.2	884.0	900.6	936.9	986.7	987.8
32.5°	3373.2	3299.5	2976.8	2313.8	1554.3	936.9	861.2	849.8	858.1	896.5	903.7
35°	3734.3	3638.8	3198.9	2387.5	1423.6	868.5	819.7	781.3	778.2	796.9	814.5
37.5°	4148.3	4034.1	3479.0	2481.9	1269.0	796.9	758.5	720.1	703.5	712.8	739.8
40°	4530.1	4403.5	3771.6	2596.1	1111.3	732.5	686.9	647.5	627.7	630.9	664.1
42.5°	4978.4	4847.6	4129.6	2745.5	980.5	689.0	612.2	571.7	545.8	560.3	598.7
45°	5659.0	5510.6	4651.5	2875.2	876.8	678.6	546.8	489.7	477.3	502.2	547.8
47.5°	6588.7	6407.1	5368.5	2954.0	788.6	687.9	501.2	423.3	426.4	454.5	500.1
50°	7511.1	7315.0	6197.5	2850.3	715.9	669.2	478.3	371.5	391.2	416.1	457.6
52.5°	8145.1	7889.8	6601.1	2550.4	649.5	598.7	476.3	322.7	360.0	368.3	403.6
55°	8170.0	7855.6	6394.7	2010.8	559.3	505.3	454.5	282.2	325.8	328.9	359.0
57.5°	7161.4	6877.1	5588.5	1381.0	497.0	370.4	362.1	246.9	267.7	293.6	312.3
60°	5448.4	5206.6	4179.4	632.9	377.7	235.5	248.0	212.7	200.3	238.6	257.3
62.5°	3336.9	3182.3	2506.8	280.1	240.7	125.5	150.5	169.1	150.5	165.0	180.5
65°	1325.0	1256.5	951.5	119.3	98.6	63.3	68.5	98.6	105.8	116.2	130.7
67.5°	230.3	217.9	159.8	52.9	40.5	38.4	33.2	45.7	64.3	71.6	83.0
70°	30.1	29.1	25.9	21.8	20.8	18.7	14.5	29.1	43.6	45.7	52.9
72.5°	7.3	6.2	6.2	5.2	6.2	2.1	2.1	15.6	31.1	32.2	37.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	19.7	21.8	25.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8
2.5°	1206.7	1186.0	1178.7	1168.3	1154.8	1159.0	1140.3	1134.1	1143.4	1155.9	1152.8
5°	1096.7	1073.9	1058.3	1034.5	1030.3	1021.0	1014.8	1006.5	1016.8	1031.4	1034.5
7.5°	1009.6	989.9	974.3	967.0	961.8	957.7	945.2	939.0	939.0	945.2	950.4
10°	972.2	957.7	954.6	956.7	965.0	963.9	952.5	944.2	933.8	928.6	934.9
12.5°	1024.1	1000.2	996.1	997.1	1007.5	1006.5	994.0	983.6	981.6	983.6	1003.3
15°	1112.3	1076.0	1049.0	1043.8	1049.0	1046.9	1037.6	1031.4	1034.5	1064.6	1097.8
17.5°	1191.2	1135.1	1086.4	1067.7	1066.6	1063.5	1054.2	1052.1	1067.7	1123.7	1172.5
20°	1214.0	1159.0	1089.5	1065.6	1060.4	1057.3	1046.9	1050.0	1069.8	1137.2	1178.7
22.5°	1183.9	1131.0	1058.3	1034.5	1030.3	1029.3	1018.9	1023.1	1039.7	1098.8	1133.0
25°	1126.8	1082.2	1006.5	985.7	985.7	983.6	974.3	976.4	986.7	1038.6	1071.8
27.5°	1057.3	1014.8	951.5	930.7	933.8	936.9	925.5	922.4	930.7	979.5	999.2
30°	977.4	947.3	897.5	878.8	877.8	890.3	874.7	870.5	882.0	920.3	924.5
32.5°	899.6	885.1	849.8	835.3	836.3	838.4	830.1	830.1	840.4	861.2	860.2
35°	823.8	814.5	808.3	797.9	796.9	792.7	792.7	794.8	806.2	813.5	800.0
37.5°	751.2	760.6	767.8	757.4	749.1	749.1	749.1	758.5	768.9	765.7	742.9
40°	686.9	706.6	729.4	718.0	698.3	697.3	701.4	717.0	732.5	713.9	693.1
42.5°	631.9	656.8	689.0	682.7	660.9	657.8	660.9	680.7	693.1	669.2	646.4
45°	577.9	609.1	647.5	647.5	623.6	620.5	621.5	647.5	654.7	626.7	597.7
47.5°	532.3	566.5	607.0	607.0	587.3	581.1	586.2	613.2	618.4	579.0	552.0
50°	488.7	526.1	570.7	567.6	554.1	548.9	558.2	587.3	581.1	537.5	509.5
52.5°	433.7	473.1	534.4	537.5	530.2	531.2	542.7	561.3	543.7	490.8	466.9
55°	383.9	424.4	485.6	502.2	502.2	501.2	506.3	520.9	506.3	443.1	414.0
57.5°	330.0	364.2	415.0	419.2	422.3	410.9	418.1	437.9	430.6	376.6	360.0
60°	270.8	299.9	328.9	332.0	318.5	294.7	308.2	331.0	336.2	295.7	277.0
62.5°	192.0	220.0	254.2	254.2	240.7	216.9	234.5	254.2	246.9	205.4	194.0
65°	143.2	169.1	195.1	206.5	195.1	178.5	192.0	206.5	195.1	160.8	144.2
67.5°	92.3	110.0	125.5	134.9	137.0	134.9	141.1	137.0	123.5	100.6	91.3
70°	56.0	65.4	73.7	82.0	88.2	91.3	94.4	85.1	71.6	59.1	56.0
72.5°	40.5	48.8	56.0	62.3	69.5	71.6	71.6	65.4	52.9	41.5	38.4
75°	28.0	35.3	41.5	45.7	51.9	54.0	54.0	48.8	39.4	30.1	27.0
77.5°	1.0	7.3	7.3	6.2	8.3	10.4	10.4	12.5	11.4	8.3	7.3
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°	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8
2.5°	1159.0	1196.3	1206.7	1245.1	1279.3	1313.6	1355.1	1380.0	1417.3	1443.3	1457.8
5°	1044.9	1076.0	1113.3	1170.4	1229.5	1294.9	1373.8	1442.3	1528.4	1591.7	1612.4
7.5°	961.8	1002.3	1045.9	1117.5	1198.4	1285.6	1396.6	1508.7	1640.4	1726.5	1781.5
10°	946.3	987.8	1045.9	1116.4	1201.5	1301.1	1437.1	1582.3	1747.3	1852.1	1914.4
12.5°	1021.0	1065.6	1090.5	1122.7	1187.0	1298.0	1472.3	1657.0	1851.1	1965.2	2031.6
15°	1131.0	1170.4	1129.9	1089.5	1131.0	1264.8	1492.1	1719.3	1942.4	2074.1	2142.6
17.5°	1206.7	1209.8	1121.6	1035.5	1046.9	1204.6	1499.3	1781.5	2039.9	2177.9	2249.5
20°	1199.5	1174.6	1085.3	989.9	954.6	1126.8	1491.0	1836.5	2138.5	2282.7	2353.3
22.5°	1143.4	1114.4	1038.6	945.2	876.8	1034.5	1476.5	1886.3	2228.7	2392.7	2459.1
25°	1076.0	1044.9	982.6	900.6	827.0	945.2	1465.1	1954.8	2342.9	2535.9	2587.7
27.5°	997.1	970.1	917.2	858.1	806.2	877.8	1462.0	2045.1	2480.9	2710.2	2746.5
30°	920.3	895.4	853.9	819.7	797.9	838.4	1451.6	2141.6	2645.9	2910.4	2949.9
32.5°	846.7	821.8	795.8	790.6	791.7	823.8	1416.3	2237.0	2842.0	3201.0	3230.0
35°	783.4	754.3	744.0	756.4	779.2	798.9	1316.7	2315.9	3052.6	3517.4	3541.3
37.5°	723.2	694.1	693.1	723.2	748.1	760.6	1199.5	2393.7	3336.9	3839.1	3869.2
40°	668.2	639.2	649.5	685.8	705.6	711.8	1057.3	2512.0	3637.8	4178.4	4161.8
42.5°	621.5	591.4	597.7	644.3	662.0	678.6	926.6	2610.6	3927.3	4500.0	4494.8
45°	575.9	553.0	548.9	599.7	615.3	681.7	831.1	2686.3	4299.8	4909.9	4918.2
47.5°	531.2	513.6	514.6	536.4	574.8	697.3	750.2	2736.1	4840.4	5559.4	5415.2
50°	490.8	477.3	488.7	463.8	548.9	677.5	680.7	2725.7	5444.2	6182.0	5892.5
52.5°	446.2	443.1	448.2	388.1	507.4	597.7	615.3	2587.7	5727.5	6607.4	6442.4
55°	400.5	399.5	358.0	310.2	424.4	477.3	527.1	2159.2	5718.2	6833.6	7033.8
57.5°	346.6	338.3	271.8	253.2	330.0	332.0	480.4	1414.2	5067.6	6291.9	6707.0
60°	262.5	256.3	199.2	205.4	230.3	212.7	382.9	704.5	3787.2	4901.6	5369.5
62.5°	181.6	173.3	148.4	158.8	148.4	121.4	234.5	348.6	2294.1	3095.1	3519.5
65°	132.8	123.5	101.7	87.2	69.5	69.5	89.2	133.8	888.2	1315.7	1586.5
67.5°	82.0	77.8	60.2	43.6	42.5	45.7	46.7	66.4	143.2	228.3	279.1
70°	52.9	48.8	40.5	28.0	25.9	27.0	28.0	31.1	36.3	39.4	47.7
72.5°	36.3	34.2	29.1	15.6	12.5	13.5	14.5	14.5	17.6	16.6	19.7
75°	25.9	23.9	20.8	7.3	4.2	5.2	6.2	5.2	6.2	4.2	5.2
77.5°	7.3	7.3	5.2	1.0	0.0	1.0	2.1	2.1	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8
2.5°	1495.2	1519.0	1528.4	1514.9	1526.3	1507.6	1500.4	1472.3	1470.3	1465.1
5°	1696.5	1750.4	1782.6	1802.3	1779.5	1754.6	1717.2	1652.9	1633.2	1620.7
7.5°	1894.6	1978.7	2033.7	2059.6	2053.4	2002.5	1935.1	1827.2	1788.8	1770.1
10°	2066.9	2169.6	2236.0	2268.2	2254.7	2210.1	2113.6	1978.7	1927.8	1916.4
12.5°	2187.2	2281.7	2327.3	2355.3	2356.4	2338.7	2247.4	2111.5	2051.3	2036.8
15°	2263.0	2303.4	2304.5	2321.1	2350.1	2389.6	2347.0	2226.7	2162.3	2140.5
17.5°	2310.7	2266.1	2220.4	2224.6	2272.3	2377.1	2420.7	2328.4	2259.9	2236.0
20°	2345.0	2203.8	2118.8	2119.8	2168.6	2327.3	2471.5	2426.9	2356.4	2334.6
22.5°	2366.7	2148.8	2027.5	2024.3	2076.2	2268.2	2518.2	2544.2	2474.7	2449.7
25°	2411.4	2122.9	1972.5	1990.1	2035.8	2249.5	2581.5	2699.8	2635.5	2602.3
27.5°	2491.3	2148.8	1967.3	2007.7	2059.6	2304.5	2691.5	2907.3	2840.9	2803.6
30°	2629.3	2246.4	2047.2	2103.2	2165.5	2448.7	2876.2	3196.8	3101.4	3066.1
32.5°	2851.3	2448.7	2294.1	2414.5	2474.7	2685.3	3153.2	3521.6	3443.8	3373.2
35°	3157.4	2910.4	2892.8	3173.0	3158.4	3133.5	3493.6	3920.0	3802.8	3734.3
37.5°	3578.6	3653.4	3784.1	4062.2	4052.8	3862.9	3940.8	4296.7	4236.5	4148.3
40°	4104.7	4263.5	4485.5	4883.9	4759.4	4520.8	4489.7	4682.6	4633.9	4530.1
42.5°	4414.9	4688.9	5112.2	5470.2	5370.6	4953.5	4918.2	5198.3	5091.5	4978.4
45°	4559.2	5035.4	5865.5	6350.1	6048.1	5240.9	5227.4	5870.7	5810.5	5659.0
47.5°	4625.6	5385.1	6747.4	7481.0	6916.6	5493.0	5444.2	6846.0	6767.2	6588.7
50°	4699.2	5867.6	7809.9	8791.5	7965.6	5778.3	5813.6	7754.9	7721.7	7511.1
52.5°	4861.1	6378.1	9118.3	10289.8	9237.7	6225.5	6447.6	8612.0	8387.9	8145.1
55°	5103.9	6934.2	10479.7	11820.2	10535.7	6826.3	7133.4	9067.5	8438.7	8170.0
57.5°	4835.2	7073.3	11285.9	12888.9	11111.6	6828.4	6553.4	8277.9	7421.9	7161.4
60°	3837.0	6580.4	10975.6	12657.6	10620.8	6063.7	5017.8	6463.1	5622.7	5448.4
62.5°	2594.0	5518.9	9662.0	10704.8	9090.3	4769.8	3261.1	4203.3	3481.1	3336.9
65°	1421.5	4117.2	7806.8	8098.4	7114.8	3331.7	1677.8	1824.1	1389.3	1325.0
67.5°	392.2	2865.8	5744.1	5372.6	4991.8	2169.6	433.7	325.8	232.4	230.3
70°	98.6	1895.7	3441.7	3547.5	3060.9	1389.3	83.0	39.4	31.1	30.1
72.5°	41.5	815.5	1633.2	1877.0	1566.8	643.3	30.1	11.4	9.3	7.3
75°	5.2	65.4	139.0	210.6	144.2	69.5	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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