

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: P630289

Luminaire Tested: GWS-SA1D-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4679.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

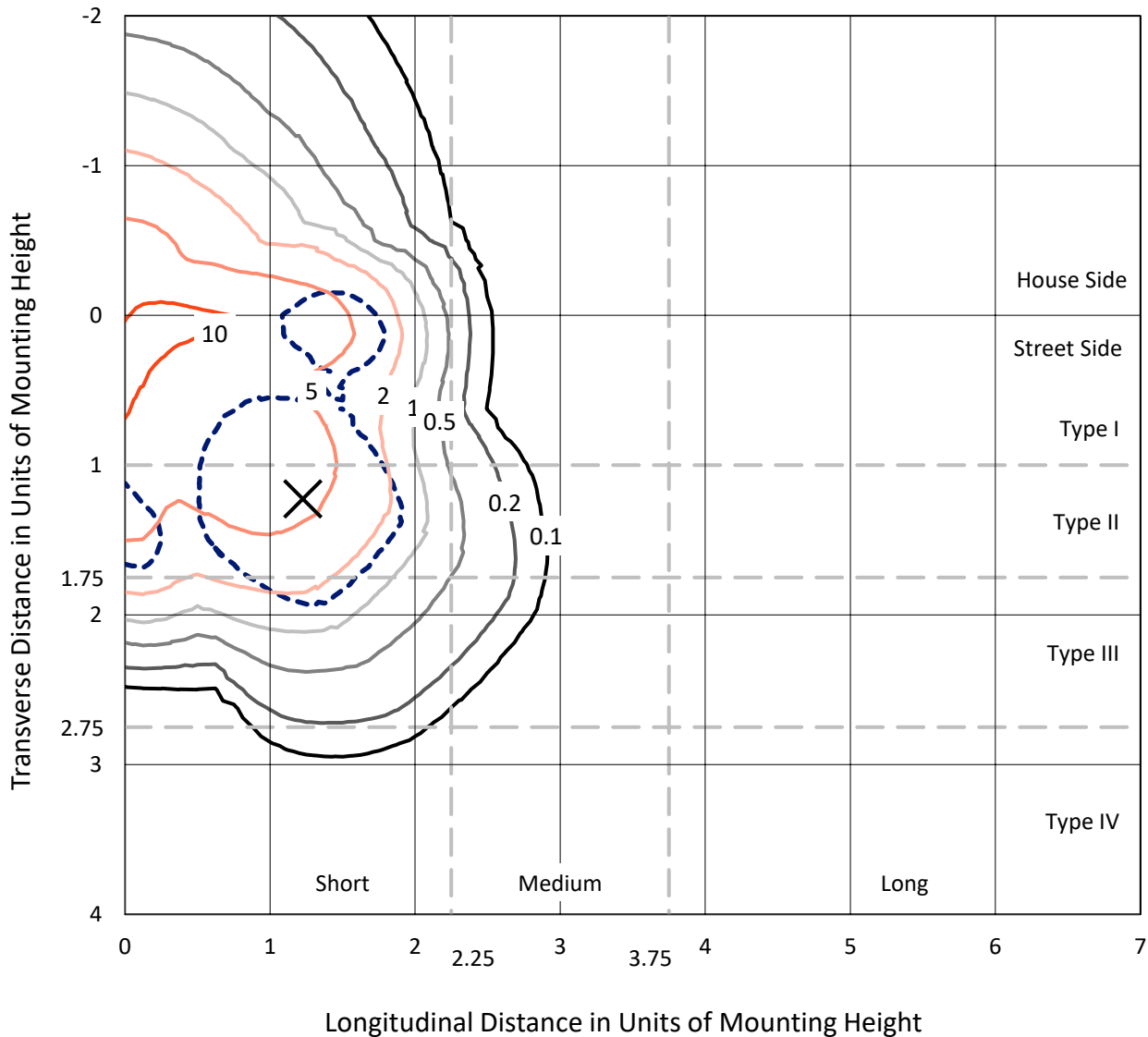
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

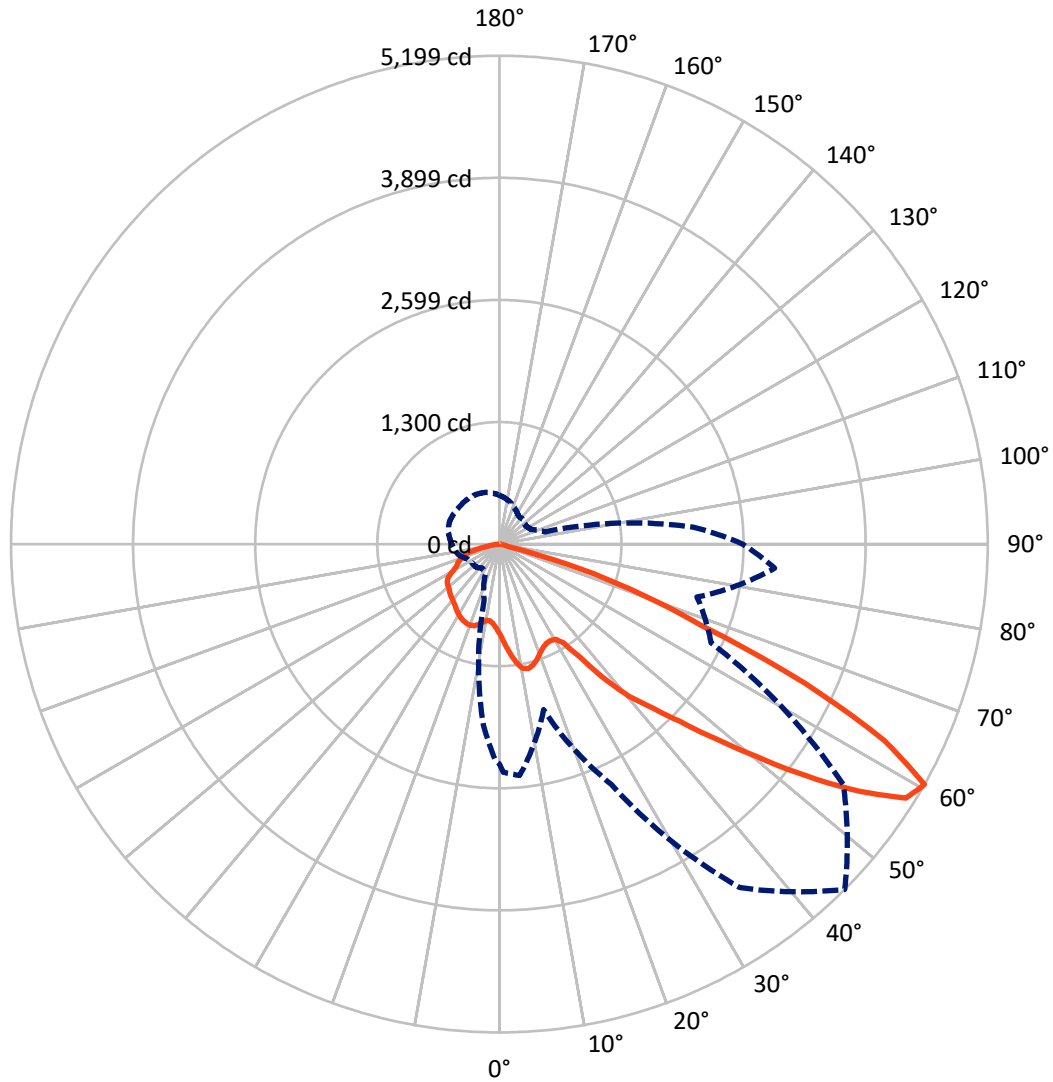
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.2	0.0	1640.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3039.0	0.0	3039.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	4679.2	0.0	4679.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	2.0
10°-20°	296.4	6.3
20°-30°	481.4	10.3
30°-40°	678.9	14.5
40°-50°	938.3	20.1
50°-60°	1207.8	25.8
60°-70°	765.3	16.4
70°-80°	196.4	4.2
80°-90°	21.0	0.4
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°	4679.2	100.0
0°-180°	4679.2	100.0

Coefficient of Utilization



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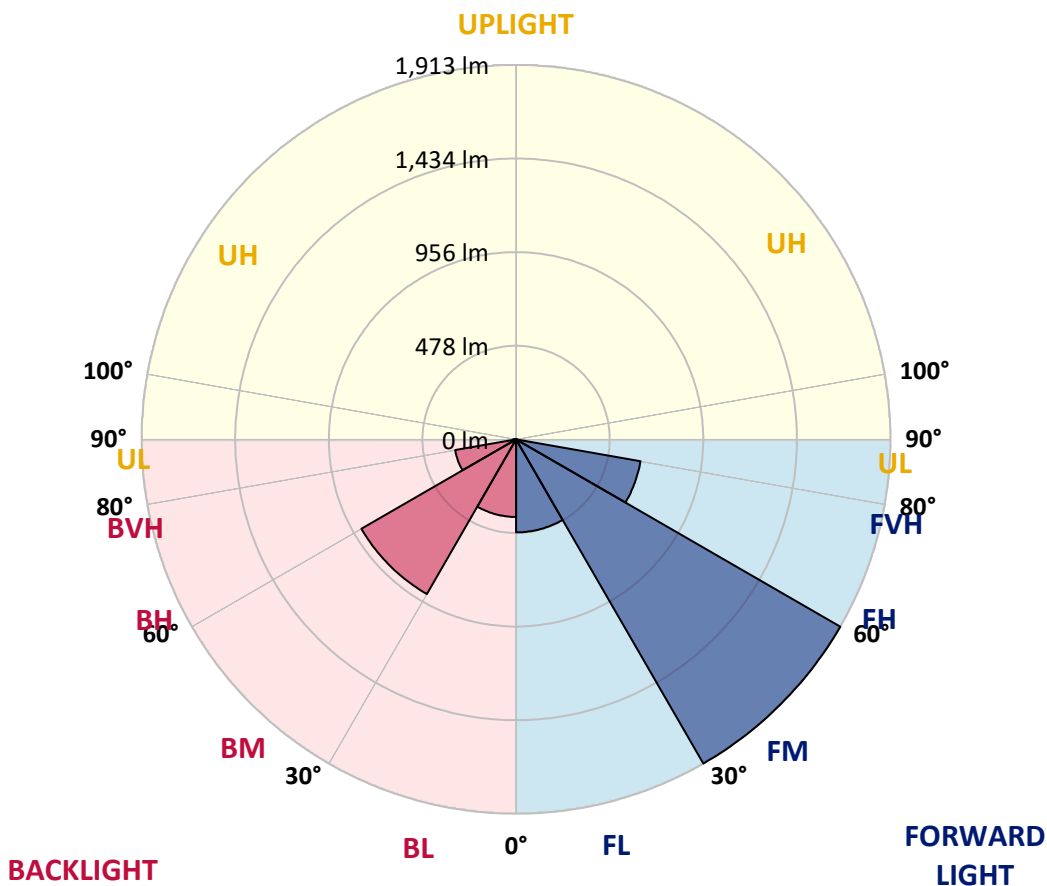
CATALOG NUMBER: GWS-SA1D-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.1	10.2			
FM (30°-60°)	1912.6	40.9			
FH (60°-80°)	645.6	13.8			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	396.4	8.5	B1/500		
BM (30°-60°)	912.4	19.5	B1/1000		
BH (60°-80°)	316.1	6.8	B1/500		G1/500
BVH (80°-90°)	15.3	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°	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2
2.5°	1005.4	1012.3	1016.6	1024.7	1039.3	1047.4	1056.4	1046.6	1049.1	1047.9	1032.0
5°	1065.0	1073.1	1084.3	1108.3	1135.3	1150.3	1164.5	1162.3	1149.0	1126.7	1110.9
7.5°	1120.7	1130.2	1149.5	1188.5	1228.4	1251.5	1268.7	1257.5	1246.4	1211.2	1171.3
10°	1164.5	1170.0	1196.2	1248.5	1294.8	1321.0	1342.0	1339.4	1324.0	1284.5	1230.9
12.5°	1205.6	1209.5	1237.8	1290.1	1331.7	1343.3	1360.4	1366.0	1360.8	1331.3	1278.5
15°	1249.8	1257.1	1283.2	1323.1	1342.0	1330.0	1336.0	1351.4	1366.0	1366.0	1317.5
17.5°	1290.9	1297.4	1324.0	1341.1	1323.1	1291.4	1293.1	1312.8	1347.5	1384.0	1353.1
20°	1327.4	1333.4	1359.5	1343.3	1286.2	1239.9	1238.6	1262.7	1318.8	1395.6	1391.3
22.5°	1367.3	1375.8	1397.7	1345.0	1251.9	1193.2	1192.8	1217.6	1293.5	1407.1	1435.0
25°	1423.9	1437.2	1448.3	1360.0	1233.5	1162.8	1168.3	1191.9	1285.4	1426.0	1499.7
27.5°	1507.9	1518.6	1517.8	1391.3	1232.6	1150.3	1161.9	1189.3	1300.0	1459.4	1567.9
30°	1598.8	1604.4	1595.4	1435.0	1252.4	1158.0	1175.2	1207.8	1336.8	1514.8	1668.2
32.5°	1699.5	1706.4	1689.3	1500.6	1298.2	1215.1	1252.8	1268.7	1388.7	1594.5	1774.6
35°	1815.3	1828.6	1793.0	1587.2	1433.3	1423.0	1477.9	1457.3	1498.9	1688.8	1888.2
37.5°	1937.1	1937.5	1886.5	1715.4	1698.3	1715.8	1825.6	1761.3	1732.6	1793.9	2004.0
40°	2040.4	2037.8	1959.4	1888.2	1928.9	1998.8	2131.3	2032.7	1957.2	1934.9	2100.0
42.5°	2143.7	2134.3	2055.0	1997.9	2088.0	2231.6	2381.2	2260.3	2101.3	2063.1	2194.7
45°	2275.8	2272.8	2177.2	2041.7	2231.6	2492.3	2690.8	2494.9	2186.6	2137.7	2352.5
47.5°	2488.9	2474.3	2296.4	2038.3	2366.2	2839.6	3090.4	2790.3	2246.2	2139.4	2607.2
50°	2697.2	2679.2	2438.7	2037.8	2505.2	3199.7	3562.0	3149.1	2307.1	2149.7	2866.2
52.5°	2907.7	2907.7	2672.4	2086.3	2650.9	3601.9	4106.9	3596.3	2410.8	2284.3	3184.7
55°	3032.9	3066.4	2935.2	2168.2	2821.6	4075.2	4645.9	4079.1	2571.2	2527.4	3478.8
57.5°	2873.9	2936.5	2917.6	2111.1	2922.3	4422.9	5102.9	4445.2	2650.5	2556.2	3434.7
60°	2341.8	2428.8	2472.1	1823.0	2822.9	4463.2	5198.5	4469.2	2486.7	2176.7	2942.0
62.5°	1556.8	1628.4	1694.4	1302.5	2443.8	4015.2	4597.9	4016.5	2076.8	1624.5	2038.3
65°	763.6	816.8	887.9	770.0	1909.2	3354.9	3584.7	3245.6	1502.3	909.4	1039.7
67.5°	199.8	214.8	224.7	298.8	1367.7	2410.4	2337.9	2374.0	965.1	297.1	271.8
70°	103.8	104.6	104.2	123.5	924.4	1531.9	1611.2	1490.7	673.6	124.3	107.2
72.5°	74.2	74.6	73.3	83.2	446.3	877.6	909.4	899.5	352.9	73.7	73.3
75°	48.4	48.9	48.0	48.9	67.3	99.9	92.2	96.9	58.7	46.7	46.7
77.5°	28.7	29.2	28.7	29.6	28.7	28.7	26.6	26.6	25.3	25.3	25.7
80°	19.3	19.3	18.9	19.7	18.0	18.0	17.1	16.7	15.4	15.0	15.0
82.5°	11.6	12.0	11.6	11.6	10.7	10.7	9.9	9.4	8.1	8.1	7.7
85°	6.0	6.0	5.6	5.6	4.7	4.3	3.4	3.4	2.6	2.1	2.1
87.5°	0.9	0.9	0.4	0.4	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°	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2
2.5°	1027.7	1019.1	1006.3	993.8	982.3	970.2	956.5	942.4	930.4	917.9	911.5
5°	1089.9	1072.3	1038.8	1009.3	982.7	960.8	937.2	917.1	898.2	882.8	875.1
7.5°	1146.0	1118.6	1068.0	1021.3	985.3	955.2	922.7	892.6	867.3	848.5	841.2
10°	1197.9	1165.3	1098.9	1039.7	997.7	964.2	924.4	883.6	850.2	825.3	819.3
12.5°	1239.9	1202.6	1123.3	1054.7	1005.0	969.0	933.8	898.6	865.6	833.5	828.3
15°	1277.2	1233.1	1141.7	1064.1	1002.4	956.5	926.9	922.7	922.7	886.2	875.9
17.5°	1309.4	1260.9	1156.8	1068.4	986.1	919.7	901.6	939.0	981.0	954.8	931.7
20°	1346.3	1287.5	1169.2	1068.4	956.1	872.9	871.2	934.7	996.8	997.3	972.8
22.5°	1383.6	1318.4	1183.8	1064.6	914.9	818.9	850.6	917.5	972.8	996.4	979.7
25°	1444.0	1361.3	1206.9	1061.6	866.9	782.0	832.2	894.8	941.5	966.4	955.7
27.5°	1520.8	1417.9	1242.1	1066.3	819.3	760.2	812.5	865.2	907.7	929.5	921.8
30°	1606.5	1483.0	1279.8	1074.4	785.0	749.0	788.9	831.3	869.1	890.9	887.5
32.5°	1715.8	1553.8	1312.4	1063.3	765.7	743.4	764.0	794.5	830.9	844.6	847.6
35°	1846.6	1631.8	1337.3	1019.6	748.2	737.4	737.0	755.9	781.6	803.5	805.6
37.5°	1967.1	1723.1	1364.7	944.5	716.4	722.4	705.3	716.4	741.7	763.6	772.2
40°	2086.3	1815.7	1402.9	848.9	674.8	689.0	668.8	676.6	696.7	725.4	739.2
42.5°	2202.0	1899.3	1443.2	751.2	633.3	642.3	627.3	635.0	656.0	692.0	707.4
45°	2328.1	2012.5	1474.5	659.0	597.2	593.4	581.4	592.5	624.3	663.7	682.1
47.5°	2566.5	2190.9	1495.0	597.7	577.9	550.1	536.4	560.4	596.4	636.3	658.6
50°	2857.6	2449.0	1489.0	558.7	561.2	505.5	500.8	532.5	571.1	612.7	637.1
52.5°	3088.2	2702.4	1420.9	521.4	528.6	477.2	463.5	509.8	546.6	589.1	614.4
55°	3264.5	2787.7	1211.6	477.2	475.5	456.6	427.9	486.2	522.2	561.7	589.1
57.5°	3120.8	2597.8	898.2	416.3	406.0	415.9	388.0	446.3	492.2	531.2	555.7
60°	2590.0	2071.3	500.3	368.7	339.6	363.6	359.3	404.3	459.6	500.8	521.8
62.5°	1758.3	1379.3	296.7	291.5	275.3	309.6	332.3	361.9	416.3	449.8	469.5
65°	876.4	670.1	197.2	218.2	220.4	254.7	297.5	330.1	375.6	409.9	429.6
67.5°	254.2	208.4	150.1	166.8	189.9	217.4	251.7	290.3	334.4	375.2	398.3
70°	109.8	111.0	119.2	138.9	161.6	189.9	224.2	262.0	299.3	330.6	348.1
72.5°	77.6	80.6	89.6	109.8	131.2	158.2	192.5	228.9	256.0	287.7	306.1
75°	49.7	51.9	59.2	74.6	90.5	116.6	149.2	182.6	210.5	233.2	250.8
77.5°	27.4	27.9	33.9	42.9	53.6	70.3	94.3	120.5	141.1	153.9	169.8
80°	15.9	15.9	18.9	24.4	30.9	41.2	54.5	67.3	79.7	87.9	95.6
82.5°	8.6	8.6	9.9	13.3	16.7	22.7	30.4	36.9	44.6	48.9	54.0
85°	2.6	2.6	3.4	4.7	6.0	8.6	12.0	15.4	18.9	21.9	24.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2
2.5°	910.2	904.2	900.8	896.5	897.8	893.9	891.8	893.1	885.4	893.1	900.8
5°	872.1	863.5	856.6	851.1	848.5	843.3	840.3	840.3	835.6	843.3	852.8
7.5°	838.6	831.8	828.3	824.9	821.0	816.3	811.2	809.5	806.5	814.6	822.8
10°	816.3	817.2	819.3	824.0	823.2	820.2	812.5	808.2	808.2	817.6	830.0
12.5°	826.6	835.6	840.8	849.3	851.1	848.5	840.8	837.3	845.9	860.1	880.6
15°	866.5	872.5	876.8	883.6	883.2	881.1	875.1	877.6	905.9	933.4	951.8
17.5°	909.8	902.9	902.1	906.4	907.7	905.1	901.6	913.2	960.0	985.7	995.1
20°	941.1	917.5	912.4	914.1	917.5	916.2	916.2	935.1	983.5	995.5	983.5
22.5°	950.5	917.1	909.4	909.8	914.5	914.9	917.1	936.8	965.1	965.5	947.1
25°	935.5	903.4	897.8	898.6	904.2	903.8	904.7	915.8	928.2	923.1	909.4
27.5°	907.2	879.4	877.6	882.4	889.6	885.8	883.2	886.2	892.2	885.8	873.8
30°	875.1	851.5	852.3	861.3	869.1	862.6	856.2	857.9	858.3	851.5	837.8
32.5°	841.2	823.6	826.6	836.1	845.1	838.2	831.3	830.5	822.3	814.2	800.9
35°	807.3	800.5	804.3	812.0	819.8	814.2	809.9	807.3	789.7	777.7	766.6
37.5°	776.5	781.6	788.5	793.2	795.7	795.3	792.7	786.7	763.6	749.4	734.9
40°	749.0	764.9	772.2	774.3	778.2	777.3	776.9	768.3	737.9	722.9	706.1
42.5°	724.1	746.4	758.9	761.0	763.2	763.6	762.3	749.9	715.1	697.6	681.7
45°	700.1	729.3	745.2	743.0	746.0	746.0	747.3	731.0	692.9	674.8	658.1
47.5°	679.1	713.4	728.0	725.4	727.2	728.4	729.7	710.9	668.4	651.3	634.1
50°	659.8	696.3	708.7	709.6	709.6	712.6	712.1	693.7	647.8	629.4	612.2
52.5°	639.3	678.7	692.0	697.6	699.3	700.6	694.6	673.1	626.8	604.5	588.7
55°	615.2	660.7	672.7	680.0	683.4	682.6	674.4	652.5	605.4	583.1	565.1
57.5°	578.8	622.1	639.3	642.7	648.3	644.8	635.4	617.0	571.1	548.8	530.4
60°	538.9	570.2	583.9	587.0	582.7	583.9	582.7	565.1	525.2	507.6	488.8
62.5°	486.6	514.5	529.1	532.9	525.6	530.4	528.6	506.8	466.9	448.5	431.7
65°	447.2	477.6	494.8	496.9	494.8	496.9	490.9	464.3	426.6	407.7	390.6
67.5°	416.3	447.6	465.6	471.6	469.5	469.0	459.6	428.7	389.7	369.1	347.3
70°	363.1	390.6	413.7	428.3	428.3	420.2	402.2	373.4	342.1	324.6	307.4
72.5°	321.6	356.3	379.0	394.0	397.0	392.3	367.0	336.6	300.5	283.0	265.0
75°	265.0	298.8	323.3	343.0	346.9	341.7	312.6	282.5	249.1	232.0	213.9
77.5°	177.1	197.2	216.9	235.0	231.1	234.5	214.8	192.1	171.5	158.6	150.5
80°	99.9	113.2	119.2	129.1	129.1	129.1	116.2	105.5	93.9	86.6	78.5
82.5°	56.6	65.2	67.7	75.9	78.0	78.5	69.9	63.0	55.7	51.9	46.3
85°	26.2	30.9	31.3	36.0	37.7	41.2	37.3	32.6	28.3	26.6	23.2
87.5°	0.9	2.6	3.4	6.4	8.6	9.9	10.7	10.7	9.0	8.1	6.9
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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CATALOG NUMBER: GWS-SA1D-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2	961.2
2.5°	910.2	920.5	932.5	941.1	956.5	969.4	982.7	997.3	1008.0	1005.4
5°	864.3	881.5	903.4	923.5	952.2	981.4	1013.6	1046.6	1065.9	1065.0
7.5°	838.6	863.1	889.6	916.7	950.5	992.5	1041.8	1093.3	1119.5	1120.7
10°	852.3	878.5	896.5	919.2	954.8	1007.5	1066.7	1128.5	1158.5	1164.5
12.5°	895.6	893.5	892.2	908.5	951.4	1018.3	1090.7	1164.5	1198.3	1205.6
15°	936.8	892.6	866.1	877.2	935.9	1025.1	1114.3	1203.9	1242.1	1249.8
17.5°	944.5	877.6	828.3	836.1	911.5	1027.3	1137.0	1242.5	1283.7	1290.9
20°	923.1	858.3	800.9	790.2	880.6	1021.7	1151.2	1274.7	1319.7	1327.4
22.5°	896.1	841.2	780.3	752.4	842.9	1016.1	1167.0	1308.5	1360.4	1367.3
25°	867.8	819.3	761.0	718.6	800.0	1012.7	1193.6	1353.1	1415.7	1423.9
27.5°	837.8	792.7	744.3	702.3	760.6	1017.0	1231.4	1425.1	1496.3	1507.9
30°	805.6	766.2	733.6	696.7	733.6	1020.8	1272.9	1498.9	1582.5	1598.8
32.5°	772.2	741.7	722.4	699.3	716.9	1011.8	1309.4	1581.6	1685.4	1699.5
35°	738.7	716.9	708.3	704.0	694.6	978.8	1339.0	1665.2	1802.9	1815.3
37.5°	707.4	691.1	688.6	693.3	660.3	924.8	1373.3	1771.6	1918.2	1937.1
40°	678.3	663.3	662.8	662.0	622.5	851.1	1419.6	1879.6	2031.8	2040.4
42.5°	651.3	632.4	635.8	625.5	591.7	771.3	1463.3	1971.8	2137.7	2143.7
45°	627.3	602.4	606.2	593.4	577.1	687.7	1501.9	2080.7	2271.9	2275.8
47.5°	604.1	577.5	566.8	565.9	574.5	610.5	1539.6	2290.4	2482.0	2488.9
50°	582.7	553.9	523.5	542.4	558.7	552.7	1586.8	2515.0	2698.9	2697.2
52.5°	562.1	524.4	481.1	517.5	517.5	509.8	1573.5	2651.4	2878.2	2907.7
55°	538.5	476.8	436.9	475.9	457.0	471.2	1338.1	2695.9	2990.9	3032.9
57.5°	491.8	418.0	383.3	404.3	376.0	436.9	961.2	2474.7	2799.3	2873.9
60°	446.8	374.7	352.0	348.1	311.3	356.3	623.0	1937.5	2304.1	2341.8
62.5°	394.0	337.4	318.1	288.5	250.4	259.4	377.3	1275.1	1548.2	1556.8
65°	354.1	305.7	268.8	233.7	204.9	188.2	222.9	614.8	773.9	763.6
67.5°	304.0	262.0	226.8	201.5	177.9	156.9	148.3	182.6	206.7	199.8
70°	270.5	230.2	196.4	172.4	150.5	129.5	114.5	107.6	105.5	103.8
72.5°	233.2	198.1	162.9	139.8	119.2	99.9	86.2	78.0	75.9	74.2
75°	186.1	153.1	120.9	99.0	81.0	67.3	58.3	51.4	50.2	48.4
77.5°	123.0	98.2	72.0	58.7	48.0	40.7	34.7	30.4	29.6	28.7
80°	67.7	56.6	44.2	35.6	28.7	24.9	22.7	20.2	19.7	19.3
82.5°	40.3	33.9	25.3	20.2	16.7	15.0	13.7	12.4	12.0	11.6
85°	20.2	15.9	11.1	9.4	8.6	7.7	7.7	6.4	6.0	6.0
87.5°	5.1	4.3	2.6	2.1	2.1	2.1	1.7	1.3	1.3	0.9
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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