

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: P636888

Luminaire Tested: GWS-SA4B-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7790.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

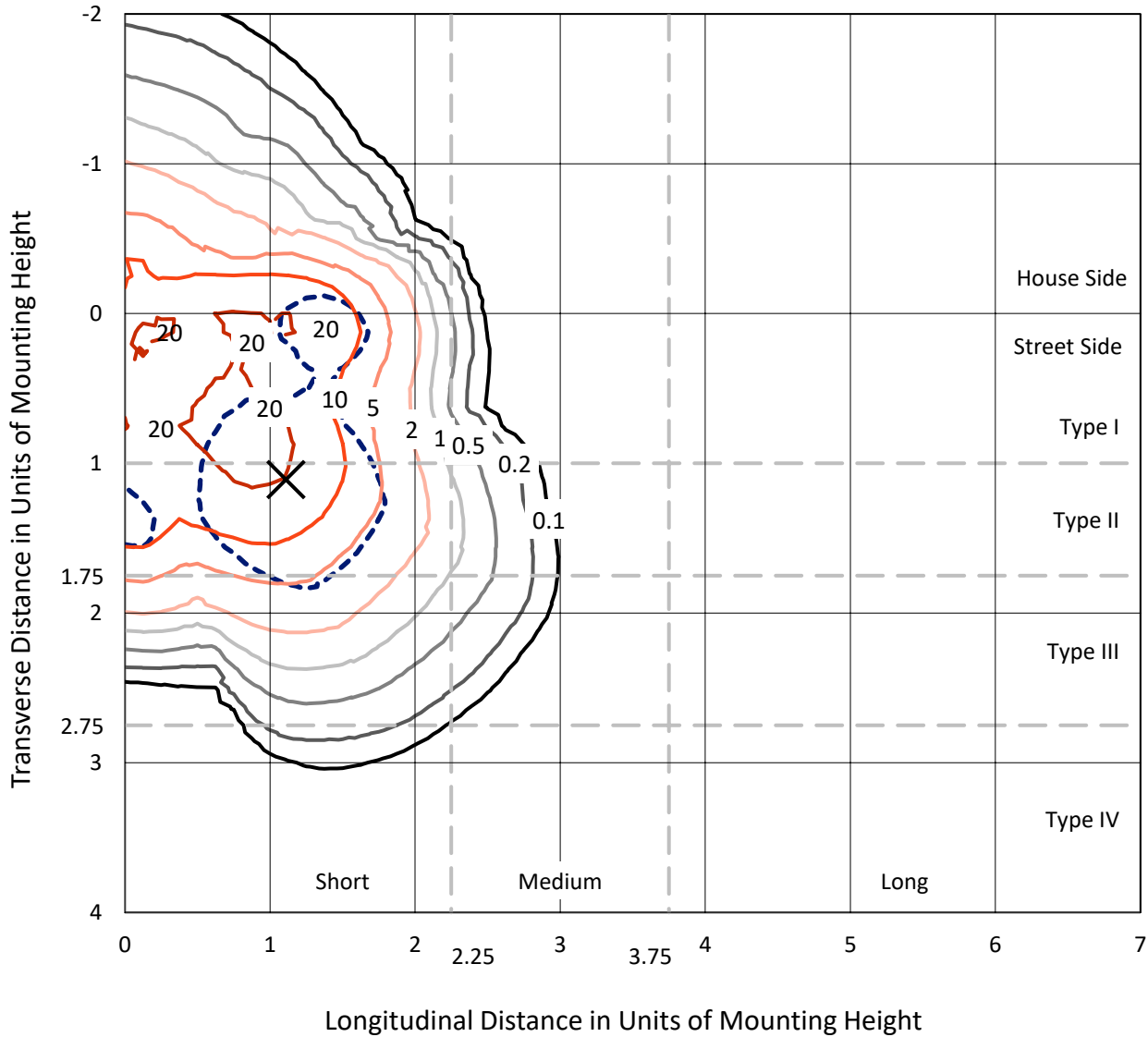
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

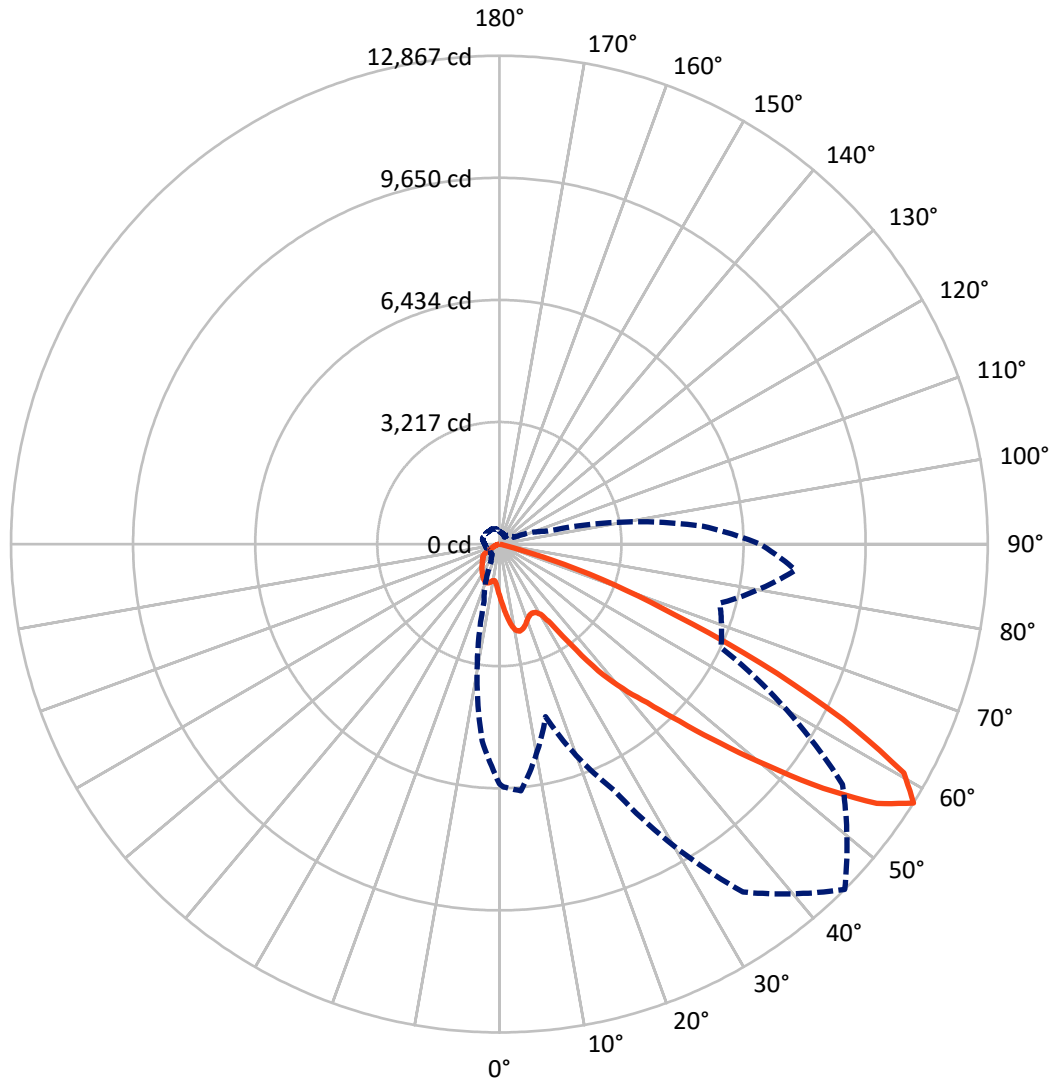
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.5	0.0	1744.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6046.2	0.0	6046.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	7790.7	0.0	7790.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.7
10°-20°	435.8	5.6
20°-30°	707.9	9.1
30°-40°	1093.8	14.0
40°-50°	1753.9	22.5
50°-60°	2397.1	30.8
60°-70°	1161.0	14.9
70°-80°	106.3	1.4
80°-90°	0.3	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°	7790.7	100.0
0°-180°	7790.7	100.0

Coefficient of Utilization



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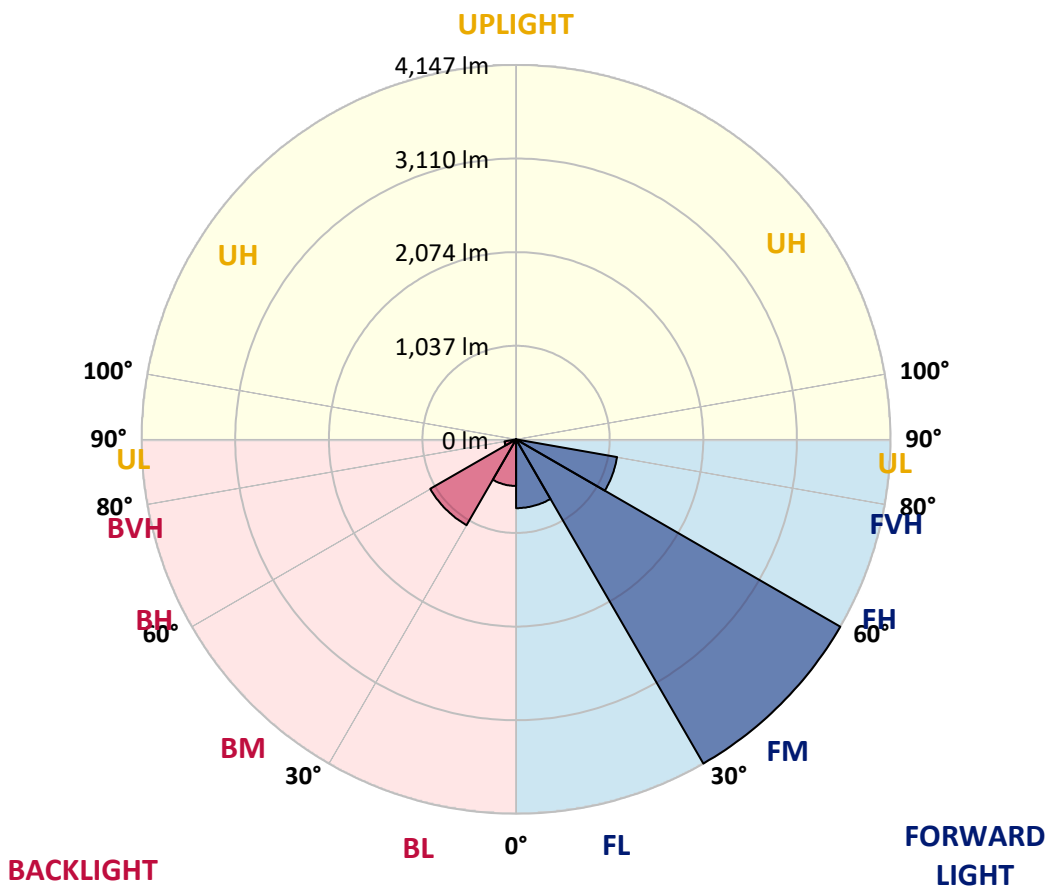
CATALOG NUMBER: GWS-SA4B-760-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.2	9.8			
FM (30°-60°)	4147.2	53.2			
FH (60°-80°)	1136.5	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	516.2	6.6	B2/1000		
BM (30°-60°)	1097.6	14.1	B2/2500		
BH (60°-80°)	130.8	1.7	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°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1483.4	1492.8	1508.5	1542.0	1570.3	1589.1	1597.5	1595.4	1583.9	1575.5	1558.8
5°	1642.5	1642.5	1672.9	1749.3	1807.9	1844.6	1863.4	1851.9	1828.9	1792.2	1735.7
7.5°	1781.8	1787.0	1838.3	1947.2	2036.2	2088.5	2118.9	2112.6	2071.7	2001.6	1888.5
10°	1890.6	1896.9	1965.0	2097.9	2202.6	2256.0	2301.0	2305.2	2260.2	2167.0	2037.2
12.5°	1996.4	2002.7	2073.8	2201.6	2293.7	2315.7	2355.4	2371.1	2359.6	2293.7	2158.6
15°	2110.5	2125.1	2185.9	2281.1	2319.9	2293.7	2319.9	2348.1	2386.9	2380.6	2259.1
17.5°	2222.5	2233.0	2294.7	2328.2	2285.3	2217.3	2229.8	2263.3	2351.3	2437.1	2358.6
20°	2326.1	2340.8	2392.1	2348.1	2218.3	2112.6	2113.6	2157.6	2291.6	2471.6	2460.1
22.5°	2435.0	2457.0	2493.6	2370.1	2156.5	2029.9	2035.1	2074.9	2244.5	2504.1	2575.3
25°	2577.4	2598.3	2622.4	2424.5	2136.7	1989.0	2008.9	2045.6	2244.5	2559.6	2717.7
27.5°	2770.0	2784.7	2785.7	2526.1	2171.2	1995.3	2037.2	2079.1	2311.5	2670.6	2908.2
30°	3011.8	3034.9	3004.5	2684.2	2279.0	2079.1	2140.8	2193.2	2455.9	2857.9	3188.8
32.5°	3306.0	3338.5	3297.6	2918.7	2504.1	2368.0	2480.0	2510.4	2686.3	3129.1	3507.0
35°	3651.5	3678.7	3634.7	3243.2	3029.6	3054.8	3257.8	3219.1	3149.0	3463.0	3878.6
37.5°	4030.4	4055.6	3970.8	3735.2	3806.4	3915.3	4239.8	4106.9	3880.7	3893.3	4281.7
40°	4378.0	4405.2	4272.3	4270.2	4416.7	4615.6	5007.2	4824.0	4516.2	4456.5	4659.6
42.5°	4738.1	4757.0	4636.6	4554.9	4887.8	5297.1	5711.7	5464.6	4937.0	4872.1	5132.8
45°	5252.1	5291.9	5077.3	4695.2	5311.8	6081.2	6659.1	6176.5	5223.9	5171.5	5857.2
47.5°	6008.0	6037.3	5599.7	4783.1	5706.5	7058.0	7843.1	7099.8	5476.1	5356.8	6847.5
50°	6632.9	6652.8	6080.2	4879.4	6126.3	8111.1	9192.5	8194.9	5759.9	5663.5	7771.9
52.5°	7093.6	7168.9	6711.5	5077.3	6678.0	9349.5	10686.4	9491.9	6202.7	6256.1	8538.2
55°	7188.8	7291.4	7142.8	5198.7	7163.7	10611.0	12066.2	10652.9	6644.5	6705.2	8795.8
57.5°	6317.8	6399.5	6523.0	4708.8	7152.2	11188.9	12867.0	11038.1	6443.5	6013.2	7831.6
60°	4732.9	4789.4	5013.4	3599.1	6577.5	10678.0	12243.1	10382.8	5634.2	4588.4	5967.1
62.5°	2806.6	2831.8	3115.5	2331.4	5459.4	9195.7	10153.5	8959.1	4452.3	3086.2	3654.6
65°	1077.2	1066.8	1283.5	1150.5	4014.7	7324.9	7552.1	6829.7	3054.8	1414.3	1393.4
67.5°	166.5	159.1	214.6	340.2	2895.6	5076.2	4983.1	4922.4	1913.7	329.8	287.9
70°	37.7	37.7	46.1	100.5	1769.2	2982.5	3191.9	3043.2	1224.8	70.1	37.7
72.5°	17.8	17.8	22.0	42.9	640.7	1229.0	1432.1	1410.1	397.8	23.0	13.6
75°	6.3	7.3	7.3	9.4	38.7	63.9	146.6	104.7	25.1	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	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°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1522.1	1514.8	1487.6	1451.0	1415.4	1384.0	1351.5	1312.8	1284.5	1252.1	1241.6
5°	1691.7	1645.7	1571.3	1493.9	1422.7	1362.0	1303.3	1240.5	1194.5	1148.4	1132.7
7.5°	1835.2	1767.1	1646.7	1530.5	1433.2	1347.3	1262.5	1176.7	1109.7	1055.2	1038.5
10°	1963.9	1885.4	1724.2	1580.8	1458.3	1358.8	1256.2	1148.4	1061.5	996.6	980.9
12.5°	2074.9	1983.8	1790.1	1618.5	1468.8	1354.6	1255.2	1169.3	1090.8	1016.5	996.6
15°	2168.1	2067.6	1845.6	1643.6	1453.0	1302.3	1215.4	1201.8	1195.5	1113.9	1075.1
17.5°	2259.1	2146.1	1890.6	1655.1	1409.1	1210.2	1147.4	1209.1	1275.1	1221.7	1172.5
20°	2354.4	2225.6	1936.7	1657.2	1335.8	1106.5	1096.1	1193.4	1277.2	1260.4	1214.4
22.5°	2466.4	2325.1	1994.3	1656.1	1243.7	1018.6	1058.4	1163.1	1231.1	1230.1	1193.4
25°	2628.7	2450.7	2071.7	1662.4	1143.2	950.6	1016.5	1111.8	1167.3	1165.2	1134.8
27.5°	2802.5	2600.4	2172.2	1678.1	1057.3	910.8	967.3	1041.6	1089.8	1087.7	1061.5
30°	3046.4	2773.1	2268.6	1679.2	995.6	889.8	912.9	964.2	1010.2	1005.0	985.1
32.5°	3342.6	2967.9	2349.2	1619.5	956.8	869.9	856.3	882.5	918.1	910.8	905.5
35°	3700.7	3199.2	2418.3	1488.6	897.2	830.2	793.5	798.8	823.9	828.1	826.0
37.5°	4108.9	3474.5	2504.1	1315.9	816.6	772.6	723.4	719.2	733.9	747.5	757.9
40°	4512.0	3784.4	2620.3	1141.1	743.3	699.3	652.2	641.7	648.0	672.1	694.1
42.5°	4965.3	4143.5	2745.9	991.4	693.0	618.7	573.7	553.8	571.6	610.3	636.5
45°	5618.5	4647.0	2868.4	872.0	672.1	547.5	486.8	484.7	504.6	554.8	584.2
47.5°	6535.6	5298.2	2949.0	778.9	671.0	492.0	419.8	432.4	455.4	504.6	538.1
50°	7429.6	6113.7	2860.0	707.7	649.1	455.4	369.5	394.7	417.7	460.6	495.2
52.5°	7968.7	6552.3	2513.5	640.7	581.0	438.6	320.3	364.3	368.5	407.2	443.9
55°	7912.2	6268.6	1925.2	537.0	480.5	414.6	269.0	328.7	330.8	360.1	391.5
57.5°	6867.4	5381.9	1322.2	435.5	361.2	342.3	221.9	277.4	297.3	315.1	338.1
60°	5118.1	3926.8	589.4	353.8	229.3	231.4	189.5	209.4	239.7	260.7	280.6
62.5°	3016.0	2259.1	239.7	212.5	126.7	145.5	152.8	152.8	171.7	187.4	200.0
65°	1140.0	790.4	97.4	106.8	66.0	68.0	90.0	111.0	125.6	139.2	156.0
67.5°	200.0	138.2	50.2	39.8	38.7	34.5	46.1	72.2	80.6	91.1	98.4
70°	33.5	28.3	20.9	19.9	17.8	18.8	30.4	51.3	56.5	59.7	62.8
72.5°	9.4	8.4	6.3	5.2	4.2	5.2	18.8	39.8	41.9	44.0	47.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	28.3	30.4	31.4	34.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	8.4	10.5	8.4
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°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1235.3	1214.4	1202.8	1196.6	1196.6	1188.2	1178.8	1175.6	1189.2	1189.2	1212.3
5°	1112.8	1096.1	1077.2	1065.7	1047.9	1051.1	1040.6	1039.5	1053.1	1059.4	1083.5
7.5°	1028.0	1007.1	995.6	988.2	978.8	974.6	965.2	962.1	969.4	979.9	1002.9
10°	971.5	968.3	967.3	972.5	972.5	967.3	958.9	953.7	955.8	975.7	1001.8
12.5°	986.1	992.4	994.5	1002.9	1007.1	1002.9	996.6	998.7	1012.3	1049.0	1087.7
15°	1050.0	1044.8	1042.7	1046.9	1050.0	1045.8	1043.7	1059.4	1106.5	1158.9	1202.8
17.5°	1118.1	1084.6	1069.9	1069.9	1072.0	1069.9	1072.0	1102.3	1178.8	1231.1	1263.6
20°	1152.6	1090.8	1067.8	1062.6	1066.8	1067.8	1075.1	1109.7	1193.4	1230.1	1237.4
22.5°	1142.1	1064.7	1038.5	1034.3	1038.5	1042.7	1050.0	1079.3	1157.8	1176.7	1173.5
25°	1089.8	1013.4	992.4	992.4	1001.8	1000.8	1003.9	1024.9	1089.8	1101.3	1096.1
27.5°	1023.8	951.6	933.8	944.3	952.6	950.6	951.6	969.4	1017.6	1020.7	1015.5
30°	956.8	894.0	877.3	889.8	901.4	899.3	900.3	918.1	948.5	945.3	938.0
32.5°	888.8	842.7	830.2	837.5	855.3	853.2	857.4	876.2	887.7	874.1	865.8
35°	826.0	801.9	792.5	796.7	810.3	813.4	820.7	833.3	833.3	816.6	801.9
37.5°	767.4	764.2	757.9	752.7	765.3	774.7	785.1	799.8	778.9	754.8	741.2
40°	712.9	726.5	718.1	704.5	711.9	725.5	746.4	757.9	732.8	708.7	685.7
42.5°	662.7	685.7	682.6	665.8	672.1	684.6	708.7	718.1	688.8	661.6	639.6
45°	614.5	647.0	649.1	628.1	634.4	647.0	675.2	678.4	640.7	611.4	595.7
47.5°	572.6	608.2	609.3	593.6	595.7	613.5	639.6	640.7	597.8	570.5	550.7
50°	532.9	573.7	576.8	563.2	565.3	586.2	608.2	604.0	558.0	529.7	511.9
52.5°	484.7	540.2	547.5	541.2	549.6	566.4	580.0	565.3	511.9	483.7	467.9
55°	432.4	504.6	520.3	516.1	525.5	539.1	542.3	532.9	465.9	437.6	422.9
57.5°	371.6	415.6	442.8	434.4	441.8	455.4	464.8	457.5	407.2	385.2	372.7
60°	307.8	337.1	343.4	329.8	323.5	347.6	369.5	360.1	317.2	303.6	288.9
62.5°	225.1	258.6	262.8	245.0	237.6	263.8	282.7	273.2	226.1	211.5	200.0
65°	180.1	211.5	219.8	203.1	198.9	218.8	230.3	207.3	173.8	158.1	145.5
67.5°	118.3	143.4	165.4	164.4	156.0	162.3	153.9	135.0	111.0	102.6	94.2
70°	73.3	87.9	101.5	106.8	105.7	103.6	92.1	78.5	71.2	68.0	63.9
72.5°	56.5	71.2	81.7	84.8	85.8	82.7	73.3	60.7	53.4	49.2	46.1
75°	41.9	53.4	61.8	66.0	68.0	66.0	56.5	48.2	40.8	37.7	34.5
77.5°	14.7	17.8	22.0	24.1	23.0	22.0	19.9	19.9	15.7	14.7	12.6
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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CATALOG NUMBER: GWS-SA4B-760-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1238.4	1257.3	1291.8	1323.2	1356.7	1391.3	1429.0	1467.7	1485.5	1483.4
5°	1120.1	1161.0	1217.5	1279.3	1348.4	1422.7	1505.4	1590.2	1626.8	1642.5
7.5°	1045.8	1103.4	1177.7	1256.2	1347.3	1453.0	1577.6	1710.6	1764.0	1781.8
10°	1055.2	1122.2	1184.0	1260.4	1357.8	1494.9	1649.9	1807.9	1870.7	1890.6
12.5°	1131.7	1146.3	1163.1	1225.9	1348.4	1526.3	1715.8	1904.2	1976.5	1996.4
15°	1200.8	1132.7	1101.3	1158.9	1314.9	1548.3	1782.8	2007.9	2087.4	2110.5
17.5°	1203.9	1101.3	1031.2	1076.2	1260.4	1557.7	1848.8	2113.6	2200.5	2222.5
20°	1165.2	1066.8	976.7	977.8	1186.1	1555.6	1903.2	2208.9	2306.2	2326.1
22.5°	1108.6	1025.9	932.8	900.3	1106.5	1551.5	1962.9	2310.4	2416.2	2435.0
25°	1045.8	973.6	890.9	841.7	1027.0	1555.6	2046.6	2443.4	2559.6	2577.4
27.5°	977.8	916.0	858.4	818.6	960.0	1571.3	2147.1	2613.0	2751.2	2770.0
30°	906.6	860.5	837.5	813.4	918.1	1575.5	2256.0	2810.8	2985.7	3011.8
32.5°	836.4	811.3	812.4	816.6	878.3	1546.2	2355.4	3030.7	3264.1	3306.0
35°	771.5	764.2	785.1	806.1	820.7	1470.8	2442.3	3290.3	3608.5	3651.5
37.5°	716.1	722.3	748.5	769.4	757.9	1364.1	2557.5	3614.8	3993.8	4030.4
40°	662.7	678.4	708.7	718.1	709.8	1239.5	2695.7	3927.8	4327.7	4378.0
42.5°	613.5	625.0	667.9	670.0	696.2	1112.8	2828.6	4264.9	4711.9	4738.1
45°	573.7	571.6	615.6	629.2	714.0	972.5	2958.4	4714.0	5214.4	5252.1
47.5°	534.9	532.9	543.3	605.1	721.3	842.7	3087.2	5371.5	5943.1	6008.0
50°	498.3	501.4	469.0	593.6	681.5	743.3	3145.8	5979.7	6605.7	6632.9
52.5°	465.9	454.3	397.8	555.9	596.7	649.1	2979.4	6256.1	7016.1	7093.6
55°	419.8	355.9	327.7	451.2	471.1	566.4	2440.2	6095.9	7051.7	7188.8
57.5°	359.1	279.5	278.5	332.9	332.9	525.5	1563.0	5208.2	6077.1	6317.8
60°	276.4	216.7	230.3	231.4	213.6	383.2	877.3	3772.9	4493.1	4732.9
62.5°	196.8	165.4	173.8	138.2	122.5	191.6	420.8	2172.2	2773.1	2806.6
65°	131.9	112.0	91.1	76.4	75.4	81.7	173.8	785.1	954.7	1077.2
67.5°	86.9	68.0	48.2	48.2	54.4	54.4	66.0	129.8	182.2	166.5
70°	56.5	47.1	30.4	29.3	35.6	35.6	33.5	35.6	37.7	37.7
72.5°	41.9	35.6	17.8	15.7	19.9	20.9	18.8	17.8	17.8	17.8
75°	31.4	25.1	10.5	7.3	9.4	12.6	10.5	7.3	7.3	6.3
77.5°	12.6	9.4	4.2	3.1	5.2	7.3	6.3	3.1	2.1	2.1
80°	1.0	2.1	2.1	2.1	3.1	4.2	5.2	2.1	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	2.1	3.1	4.2	2.1	1.0	1.0
85°	0.0	0.0	0.0	0.0	2.1	3.1	2.1	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	2.1	1.0	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

(END OF REPORT)