

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: P636389

Luminaire Tested: GWS-SA3F-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636389
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-SA3F-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13227.5 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

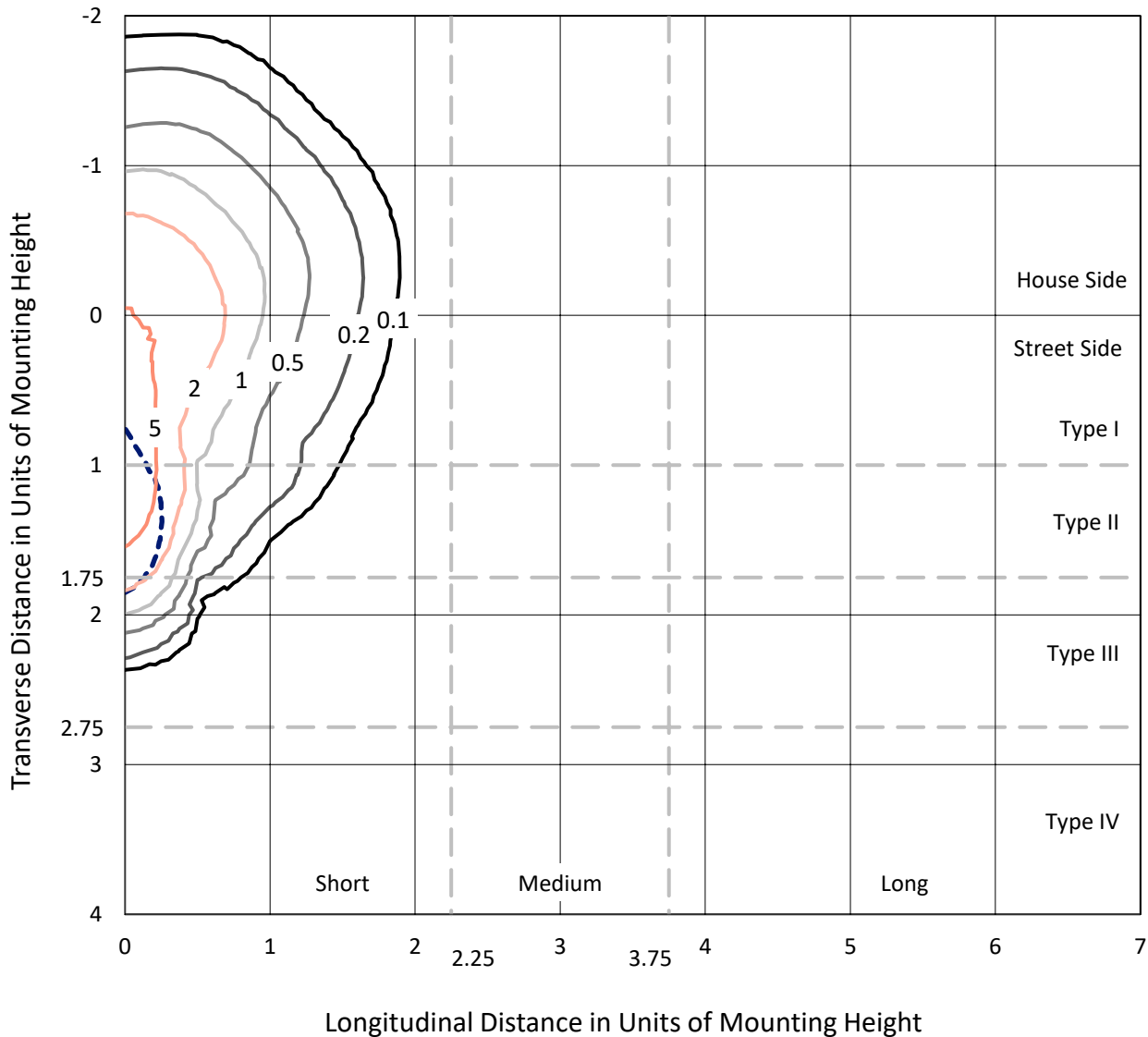
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

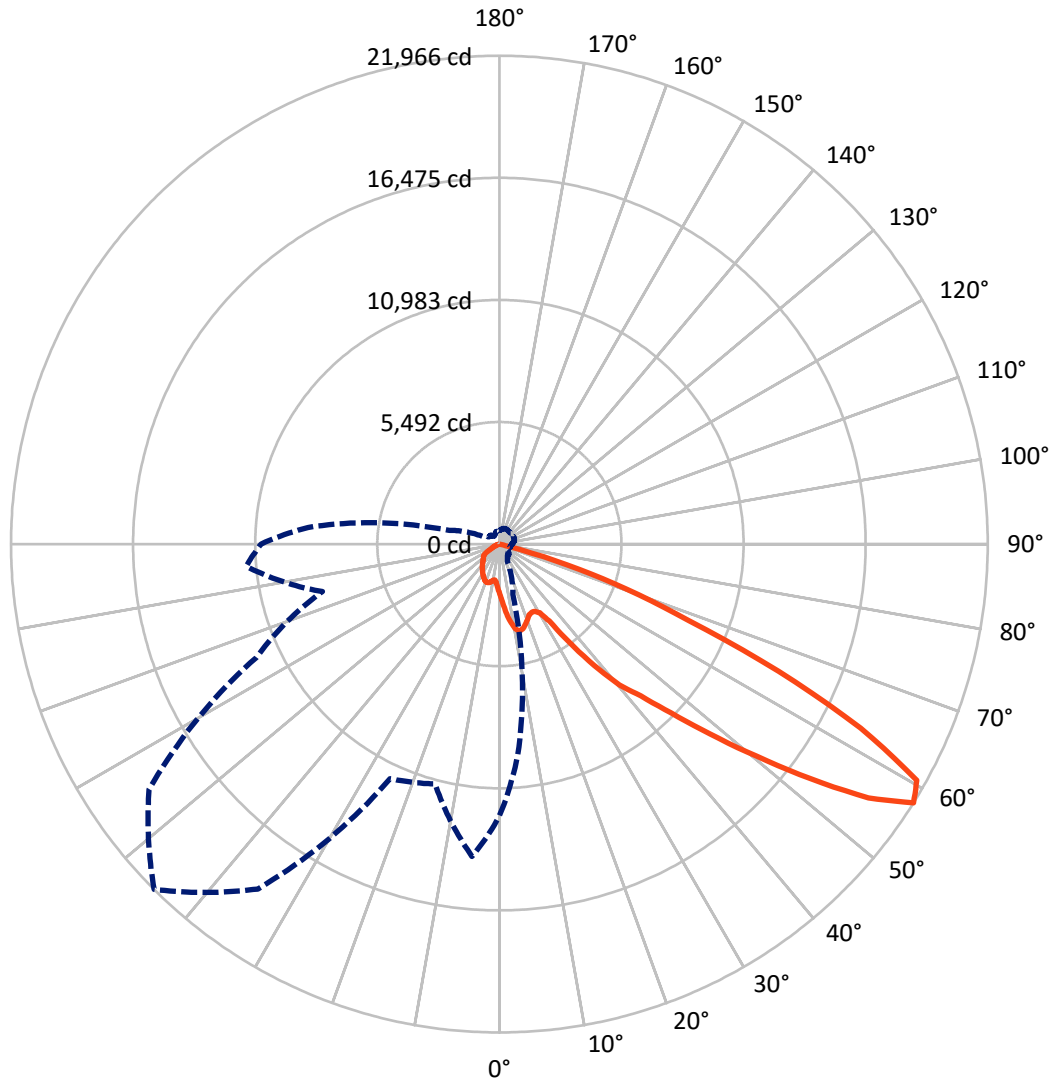
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	2849.6	0.0	2849.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10377.8	0.0	10377.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	13227.5	0.0	13227.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	1.7
10°-20°	731.0	5.5
20°-30°	1186.3	9.0
30°-40°	1820.6	13.8
40°-50°	2907.7	22.0
50°-60°	4071.3	30.8
60°-70°	2087.5	15.8
70°-80°	201.0	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°	13227.5	100.0
0°-180°	13227.5	100.0

Coefficient of Utilization



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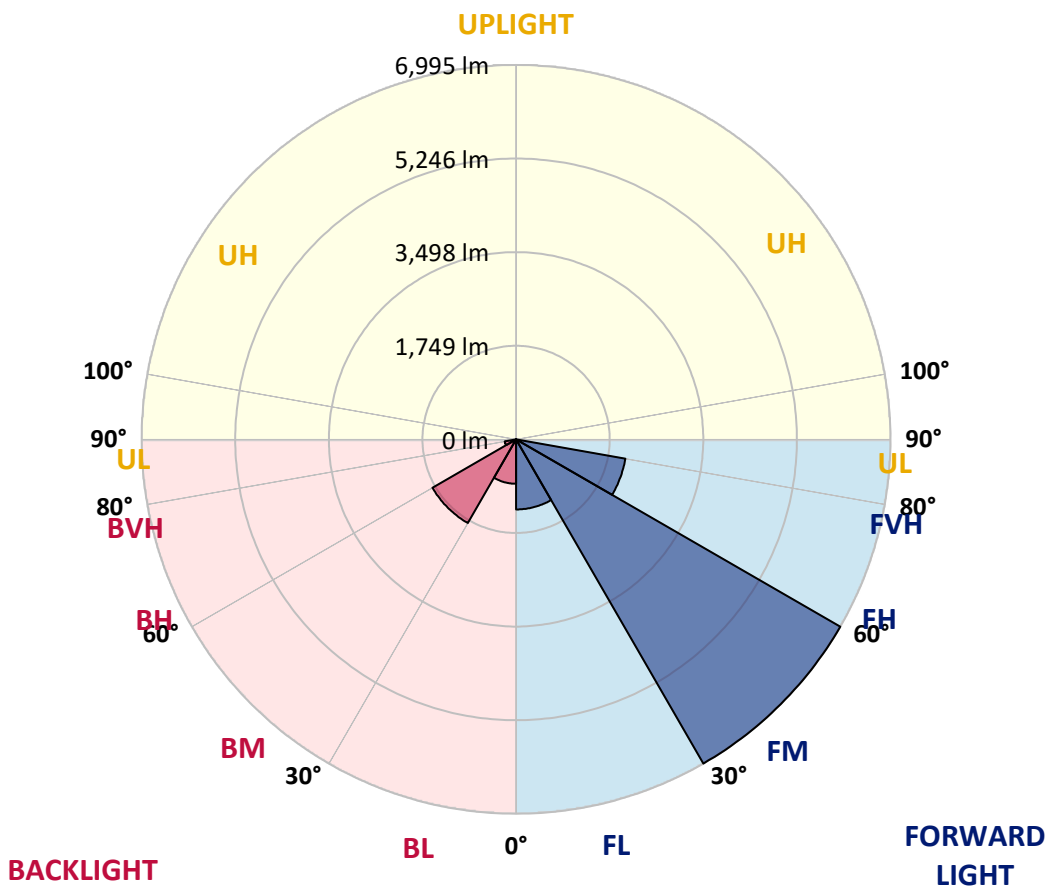
CATALOG NUMBER: GWS-SA3F-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.6	9.9			
FM (30°-60°)	6995.0	52.9			
FH (60°-80°)	2073.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	829.8	6.3	B2/1000		
BM (30°-60°)	1804.6	13.6	B2/2500		
BH (60°-80°)	215.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2496.9	2491.6	2473.9	2413.8	2376.6	2318.3	2275.8	2221.0	2160.9	2123.8	2086.6
5°	2762.1	2748.0	2700.2	2562.3	2456.2	2341.3	2249.3	2148.5	2040.7	1969.9	1904.5
7.5°	3016.8	2995.6	2931.9	2698.5	2537.6	2373.1	2242.2	2095.5	1943.4	1837.3	1756.0
10°	3266.1	3218.4	3117.6	2831.1	2613.6	2415.5	2261.7	2093.7	1915.1	1780.7	1690.5
12.5°	3471.2	3435.9	3297.9	2956.6	2677.3	2424.4	2235.2	2079.6	1959.3	1869.1	1786.0
15°	3648.1	3609.2	3478.3	3069.8	2732.1	2389.0	2123.8	1987.6	2007.1	2042.4	1971.7
17.5°	3810.8	3770.1	3628.6	3163.5	2753.3	2302.4	1968.2	1902.7	2010.6	2143.2	2116.7
20°	3978.7	3932.8	3759.5	3239.6	2746.2	2166.2	1810.8	1830.2	1982.3	2134.4	2148.5
22.5°	4175.0	4127.3	3925.7	3336.8	2740.9	2003.5	1674.6	1766.6	1929.2	2058.3	2083.1
25°	4435.0	4378.4	4157.3	3480.1	2755.1	1855.0	1577.4	1704.7	1839.1	1955.8	1969.9
27.5°	4778.0	4705.5	4424.4	3656.9	2785.1	1738.3	1534.9	1619.8	1724.1	1828.5	1840.8
30°	5225.4	5133.5	4730.3	3810.8	2771.0	1656.9	1506.6	1534.9	1596.8	1681.7	1683.5
32.5°	5748.8	5623.3	5073.3	3943.4	2649.0	1596.8	1467.7	1448.3	1462.4	1527.8	1540.2
35°	6364.2	6201.5	5451.8	4068.9	2426.1	1480.1	1397.0	1331.6	1326.2	1358.1	1388.1
37.5°	7069.8	6875.3	5929.2	4229.8	2162.7	1358.1	1292.6	1227.2	1198.9	1214.8	1260.8
40°	7720.5	7504.8	6427.9	4424.4	1893.9	1248.4	1170.6	1103.4	1069.8	1075.1	1131.7
42.5°	8484.5	8261.6	7038.0	4679.0	1671.1	1174.2	1043.3	974.4	930.1	954.9	1020.3
45°	9644.5	9391.6	7927.4	4900.0	1494.2	1156.5	931.9	834.7	813.4	855.9	933.7
47.5°	11228.9	10919.4	9149.3	5034.4	1343.9	1172.4	854.1	721.5	726.8	774.5	852.3
50°	12800.9	12466.7	10562.2	4857.6	1220.1	1140.6	815.2	633.1	666.7	709.1	779.8
52.5°	13881.4	13446.4	11250.1	4346.6	1107.0	1020.3	811.7	550.0	613.6	627.8	687.9
55°	13923.8	13388.0	10898.2	3427.0	953.1	861.2	774.5	481.0	555.3	560.6	611.8
57.5°	12205.0	11720.5	9524.2	2353.6	847.0	631.3	617.1	420.9	456.2	500.4	532.3
60°	9285.5	8873.5	7122.8	1078.7	643.7	401.4	422.6	362.5	341.3	406.7	438.5
62.5°	5687.0	5423.5	4272.3	477.4	410.3	214.0	256.4	288.2	256.4	281.2	307.7
65°	2258.2	2141.4	1621.6	203.4	168.0	107.9	116.7	168.0	180.4	198.1	222.8
67.5°	392.6	371.3	272.3	90.2	69.0	65.4	56.6	77.8	109.6	122.0	141.5
70°	51.3	49.5	44.2	37.1	35.4	31.8	24.8	49.5	74.3	77.8	90.2
72.5°	12.4	10.6	10.6	8.8	10.6	3.5	3.5	26.5	53.0	54.8	63.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	33.6	37.1	44.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2056.6	2021.2	2008.8	1991.1	1968.2	1975.2	1943.4	1932.8	1948.7	1969.9	1964.6
5°	1869.1	1830.2	1803.7	1763.0	1756.0	1740.0	1729.4	1715.3	1733.0	1757.7	1763.0
7.5°	1720.6	1687.0	1660.5	1648.1	1639.2	1632.2	1610.9	1600.3	1600.3	1610.9	1619.8
10°	1656.9	1632.2	1626.9	1630.4	1644.5	1642.8	1623.3	1609.2	1591.5	1582.7	1593.3
12.5°	1745.3	1704.7	1697.6	1699.4	1717.0	1715.3	1694.1	1676.4	1672.8	1676.4	1710.0
15°	1895.7	1833.8	1787.8	1778.9	1787.8	1784.2	1768.3	1757.7	1763.0	1814.3	1870.9
17.5°	2030.0	1934.6	1851.4	1819.6	1817.8	1812.5	1796.6	1793.1	1819.6	1915.1	1998.2
20°	2068.9	1975.2	1856.7	1816.1	1807.2	1801.9	1784.2	1789.6	1823.1	1938.1	2008.8
22.5°	2017.7	1927.5	1803.7	1763.0	1756.0	1754.2	1736.5	1743.6	1771.9	1872.7	1931.0
25°	1920.4	1844.4	1715.3	1679.9	1679.9	1676.4	1660.5	1664.0	1681.7	1770.1	1826.7
27.5°	1801.9	1729.4	1621.6	1586.2	1591.5	1596.8	1577.4	1572.0	1586.2	1669.3	1702.9
30°	1665.8	1614.5	1529.6	1497.8	1496.0	1517.2	1490.7	1483.6	1503.1	1568.5	1575.6
32.5°	1533.1	1508.4	1448.3	1423.5	1425.3	1428.8	1414.7	1414.7	1432.3	1467.7	1465.9
35°	1404.1	1388.1	1377.5	1359.8	1358.1	1351.0	1351.0	1354.5	1374.0	1386.4	1363.4
37.5°	1280.3	1296.2	1308.6	1290.9	1276.7	1276.7	1276.7	1292.6	1310.3	1305.0	1266.1
40°	1170.6	1204.2	1243.1	1223.7	1190.1	1188.3	1195.4	1221.9	1248.4	1216.6	1181.2
42.5°	1076.9	1119.4	1174.2	1163.6	1126.4	1121.1	1126.4	1160.0	1181.2	1140.6	1101.7
45°	985.0	1038.0	1103.4	1103.4	1062.8	1057.5	1059.2	1103.4	1115.8	1068.1	1018.6
47.5°	907.2	965.5	1034.5	1034.5	1000.9	990.3	999.1	1045.1	1053.9	986.7	940.8
50°	832.9	896.5	972.6	967.3	944.3	935.4	951.4	1000.9	990.3	916.0	868.3
52.5°	739.2	806.4	910.7	916.0	903.6	905.4	924.8	956.7	926.6	836.4	795.7
55°	654.3	723.2	827.6	855.9	855.9	854.1	862.9	887.7	862.9	755.1	705.6
57.5°	562.3	620.7	707.3	714.4	719.7	700.3	712.6	746.2	733.9	641.9	613.6
60°	461.5	511.0	560.6	565.9	542.9	502.2	525.2	564.1	572.9	504.0	472.1
62.5°	327.1	374.9	433.2	433.2	410.3	369.6	399.6	433.2	420.9	350.1	330.7
65°	244.0	288.2	332.4	351.9	332.4	304.2	327.1	351.9	332.4	274.1	245.8
67.5°	157.4	187.4	214.0	229.9	233.4	229.9	240.5	233.4	210.4	171.5	155.6
70°	95.5	111.4	125.6	139.7	150.3	155.6	160.9	145.0	122.0	100.8	95.5
72.5°	69.0	83.1	95.5	106.1	118.5	122.0	122.0	111.4	90.2	70.7	65.4
75°	47.7	60.1	70.7	77.8	88.4	92.0	92.0	83.1	67.2	51.3	46.0
77.5°	1.8	12.4	12.4	10.6	14.1	17.7	17.7	21.2	19.5	14.1	12.4
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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	1975.2	2038.9	2056.6	2122.0	2180.4	2238.7	2309.4	2351.9	2415.5	2459.7	2484.5
5°	1780.7	1833.8	1897.4	1994.7	2095.5	2206.9	2341.3	2458.0	2604.8	2712.6	2748.0
7.5°	1639.2	1708.2	1782.5	1904.5	2042.4	2191.0	2380.2	2571.2	2795.7	2942.5	3036.2
10°	1612.7	1683.5	1782.5	1902.7	2047.7	2217.5	2449.1	2696.7	2977.9	3156.5	3262.6
12.5°	1740.0	1816.1	1858.5	1913.3	2023.0	2212.2	2509.3	2824.0	3154.7	3349.2	3462.4
15°	1927.5	1994.7	1925.7	1856.7	1927.5	2155.6	2542.9	2930.1	3310.3	3534.9	3651.6
17.5°	2056.6	2061.9	1911.6	1764.8	1784.2	2053.0	2555.2	3036.2	3476.5	3711.7	3833.7
20°	2044.2	2001.8	1849.7	1687.0	1626.9	1920.4	2541.1	3129.9	3644.5	3890.3	4010.6
22.5°	1948.7	1899.2	1770.1	1610.9	1494.2	1763.0	2516.3	3214.8	3798.4	4077.8	4190.9
25°	1833.8	1780.7	1674.6	1534.9	1409.4	1610.9	2496.9	3331.5	3992.9	4321.8	4410.2
27.5°	1699.4	1653.4	1563.2	1462.4	1374.0	1496.0	2491.6	3485.4	4228.1	4618.9	4680.8
30°	1568.5	1526.1	1455.3	1397.0	1359.8	1428.8	2473.9	3649.8	4509.2	4960.2	5027.4
32.5°	1443.0	1400.5	1356.3	1347.5	1349.2	1404.1	2413.8	3812.5	4843.5	5455.3	5504.8
35°	1335.1	1285.6	1267.9	1289.1	1328.0	1361.6	2244.0	3946.9	5202.4	5994.6	6035.3
37.5°	1232.5	1183.0	1181.2	1232.5	1275.0	1296.2	2044.2	4079.5	5687.0	6542.8	6594.1
40°	1138.8	1089.3	1107.0	1168.9	1202.5	1213.1	1801.9	4281.1	6199.8	7121.1	7092.8
42.5°	1059.2	1007.9	1018.6	1098.1	1128.2	1156.5	1579.1	4449.1	6693.1	7669.2	7660.4
45°	981.4	942.5	935.4	1022.1	1048.6	1161.8	1416.4	4578.2	7328.0	8367.7	8381.9
47.5°	905.4	875.3	877.1	914.2	979.7	1188.3	1278.5	4663.1	8249.3	9474.7	9228.9
50°	836.4	813.4	832.9	790.4	935.4	1154.7	1160.0	4645.4	9278.4	10535.7	10042.3
52.5°	760.4	755.1	763.9	661.4	864.7	1018.6	1048.6	4410.2	9761.2	11260.7	10979.6
55°	682.6	680.8	610.1	528.7	723.2	813.4	898.3	3679.9	9745.3	11646.2	11987.5
57.5°	590.6	576.5	463.3	431.5	562.3	565.9	818.7	2410.2	8636.5	10723.2	11430.5
60°	447.4	436.8	339.5	350.1	392.6	362.5	652.5	1200.7	6454.4	8353.6	9151.1
62.5°	309.5	295.3	252.9	270.6	252.9	206.9	399.6	594.2	3909.8	5274.9	5998.2
65°	226.3	210.4	173.3	148.5	118.5	118.5	152.1	228.1	1513.7	2242.2	2703.8
67.5°	139.7	132.6	102.6	74.3	72.5	77.8	79.6	113.2	244.0	389.0	475.7
70°	90.2	83.1	69.0	47.7	44.2	46.0	47.7	53.0	61.9	67.2	81.3
72.5°	61.9	58.4	49.5	26.5	21.2	23.0	24.8	24.8	30.1	28.3	33.6
75°	44.2	40.7	35.4	12.4	7.1	8.8	10.6	8.8	10.6	7.1	8.8
77.5°	12.4	12.4	8.8	1.8	0.0	1.8	3.5	3.5	1.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	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-SA3F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2548.2	2588.8	2604.8	2581.8	2601.2	2569.4	2557.0	2509.3	2505.7	2496.9
5°	2891.2	2983.2	3038.0	3071.6	3032.7	2990.2	2926.6	2817.0	2783.4	2762.1
7.5°	3229.0	3372.2	3465.9	3510.1	3499.5	3412.9	3297.9	3114.0	3048.6	3016.8
10°	3522.5	3697.6	3810.8	3865.6	3842.6	3766.5	3602.1	3372.2	3285.6	3266.1
12.5°	3727.6	3888.6	3966.4	4014.1	4015.9	3985.8	3830.2	3598.6	3496.0	3471.2
15°	3856.7	3925.7	3927.5	3955.8	4005.3	4072.5	4000.0	3794.8	3685.2	3648.1
17.5°	3938.1	3862.0	3784.2	3791.3	3872.6	4051.2	4125.5	3968.1	3851.4	3810.8
20°	3996.4	3755.9	3610.9	3612.7	3695.8	3966.4	4212.2	4136.1	4015.9	3978.7
22.5°	4033.6	3662.2	3455.3	3450.0	3538.4	3865.6	4291.7	4335.9	4217.5	4175.0
25°	4109.6	3618.0	3361.6	3391.7	3469.5	3833.7	4399.6	4601.2	4491.6	4435.0
27.5°	4245.8	3662.2	3352.8	3421.7	3510.1	3927.5	4587.0	4954.9	4841.7	4778.0
30°	4480.9	3828.4	3488.9	3584.4	3690.5	4173.3	4901.8	5448.2	5285.5	5225.4
32.5°	4859.4	4173.3	3909.8	4114.9	4217.5	4576.4	5374.0	6001.7	5869.1	5748.8
35°	5381.0	4960.2	4930.1	5407.6	5382.8	5340.4	5954.0	6680.8	6480.9	6364.2
37.5°	6099.0	6226.3	6449.1	6923.0	6907.1	6583.5	6716.1	7322.7	7220.1	7069.8
40°	6995.5	7266.1	7644.5	8323.5	8111.3	7704.6	7651.6	7980.5	7897.4	7720.5
42.5°	7524.2	7991.1	8712.6	9322.6	9152.9	8442.0	8381.9	8859.3	8677.2	8484.5
45°	7770.0	8581.7	9996.4	10822.2	10307.6	8931.8	8908.8	10005.2	9902.7	9644.5
47.5°	7883.2	9177.6	11499.5	12749.7	11787.7	9361.5	9278.4	11667.4	11533.1	11228.9
50°	8008.8	9999.9	13310.2	14983.1	13575.5	9847.8	9908.0	13216.5	13159.9	12800.9
52.5°	8284.6	10869.9	15540.1	17536.5	15743.4	10610.0	10988.4	14677.1	14295.2	13881.4
55°	8698.4	11817.8	17860.1	20144.8	17955.6	11633.8	12157.3	15453.4	14381.8	13923.8
57.5°	8240.4	12054.7	19234.1	21966.2	18937.1	11637.4	11168.8	14107.7	12648.9	12205.0
60°	6539.3	11214.8	18705.4	21571.9	18100.6	10334.1	8551.6	11014.9	9582.6	9285.5
62.5°	4420.8	9405.8	16466.7	18243.9	15492.3	8129.0	5557.9	7163.5	5932.7	5687.0
65°	2422.6	7016.7	13304.9	13801.8	12125.4	5678.1	2859.4	3108.7	2367.8	2258.2
67.5°	668.4	4884.1	9789.5	9156.4	8507.4	3697.6	739.2	555.3	396.1	392.6
70°	168.0	3230.7	5865.6	6045.9	5216.6	2367.8	141.5	67.2	53.0	51.3
72.5°	70.7	1389.9	2783.4	3198.9	2670.2	1096.4	51.3	19.5	15.9	12.4
75°	8.8	111.4	237.0	359.0	245.8	118.5	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

(END OF REPORT)