

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: P639744

Luminaire Tested: GWS-SA5C-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639744
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-SA5C-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12768.7 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

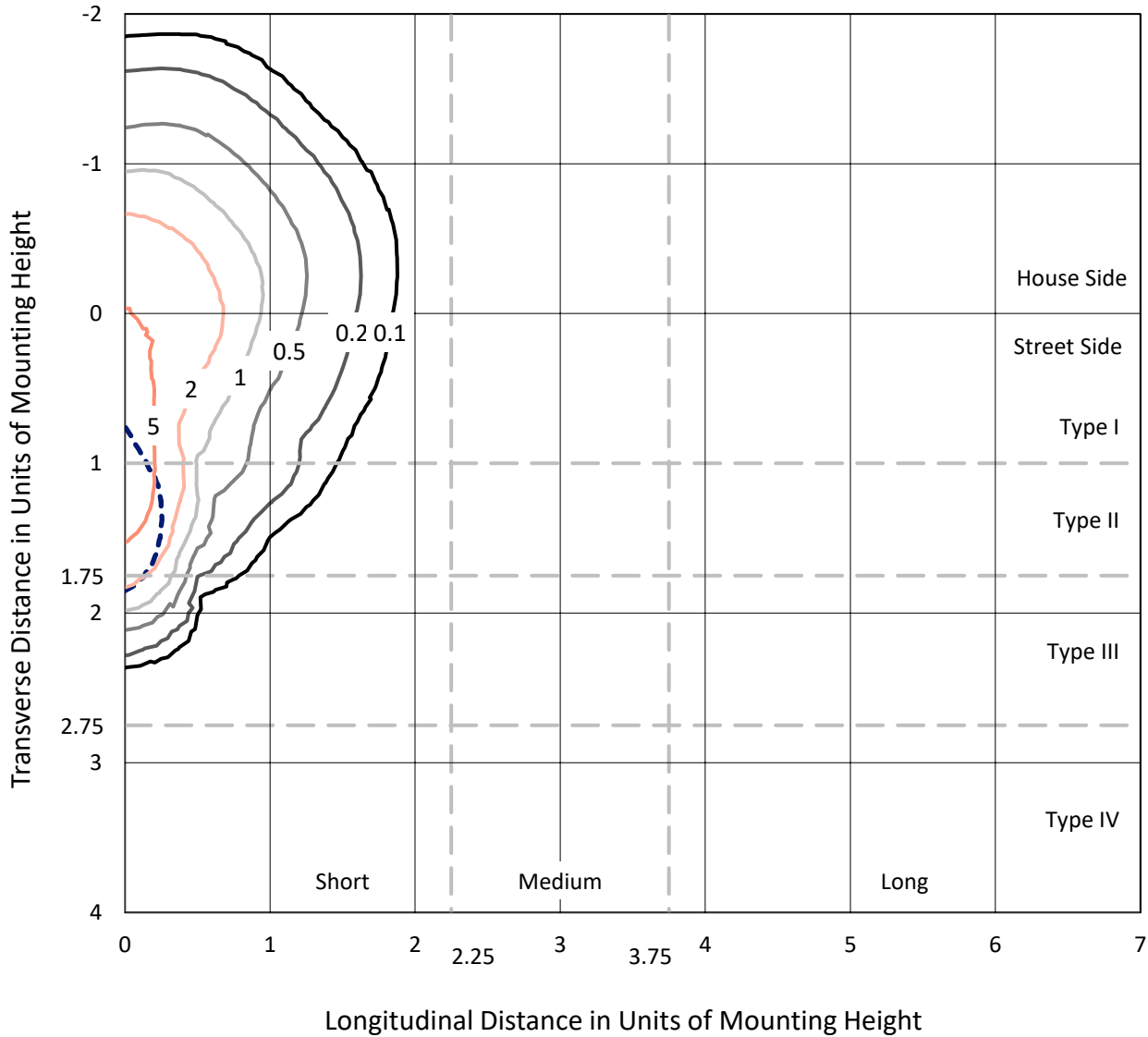
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

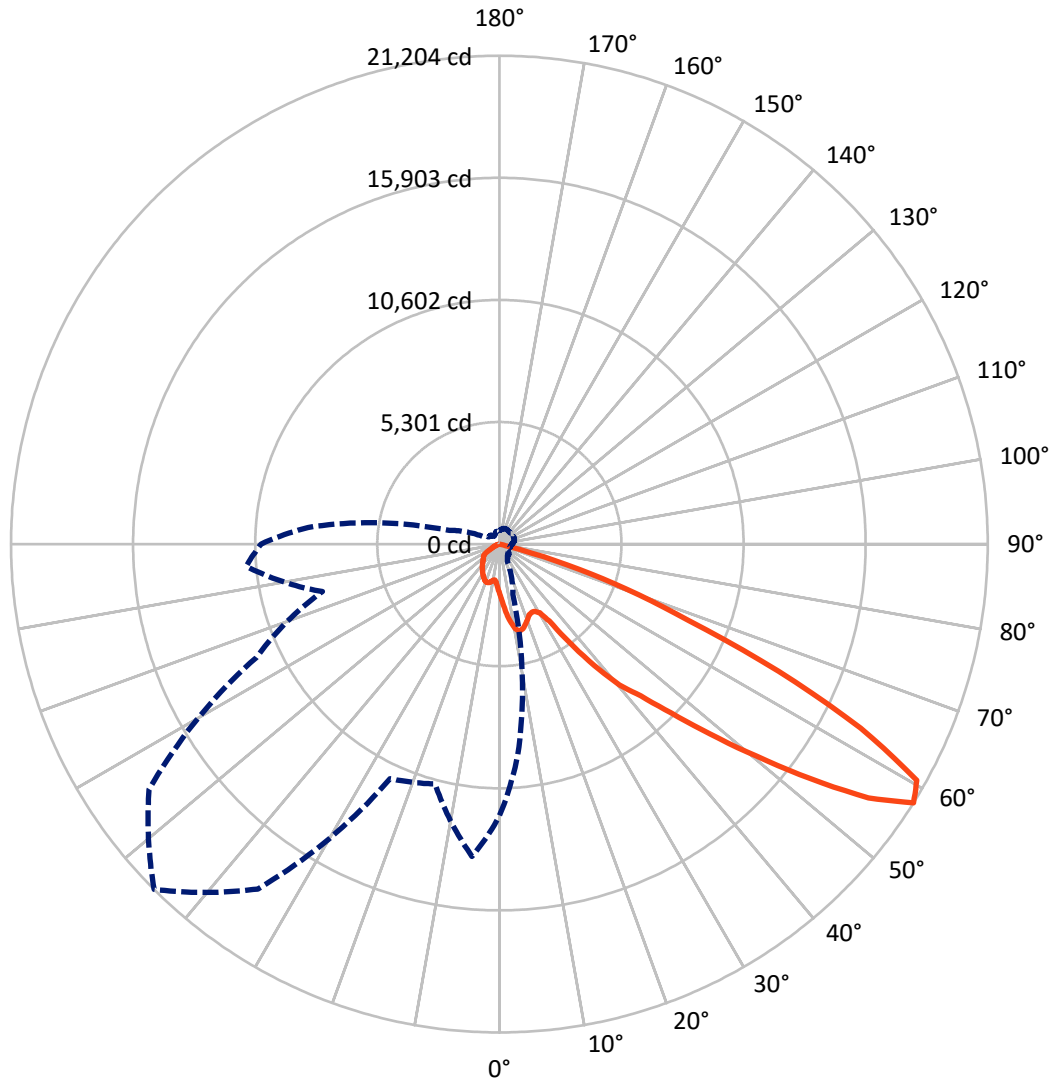
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	2750.8	0.0	2750.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10017.9	0.0	10017.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	12768.7	0.0	12768.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.7
10°-20°	705.6	5.5
20°-30°	1145.1	9.0
30°-40°	1757.5	13.8
40°-50°	2806.8	22.0
50°-60°	3930.1	30.8
60°-70°	2015.1	15.8
70°-80°	194.0	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°	12768.7	100.0
0°-180°	12768.7	100.0

Coefficient of Utilization



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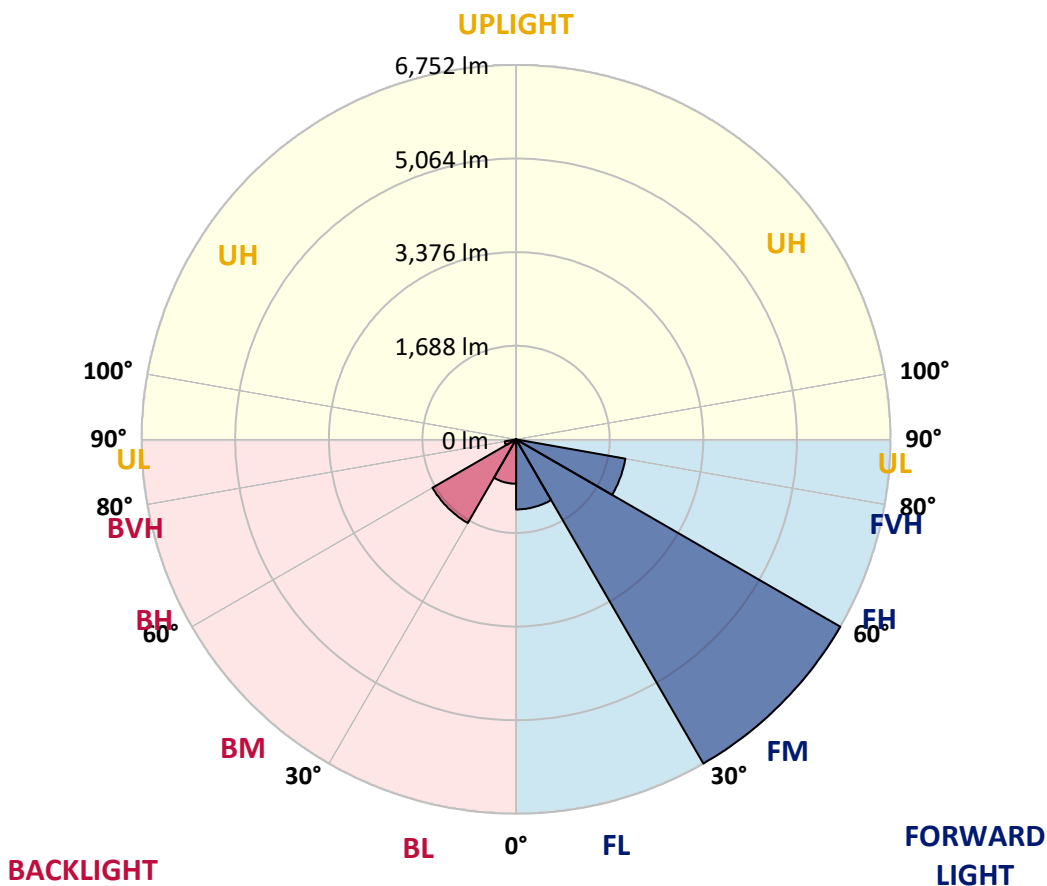
CATALOG NUMBER: GWS-SA5C-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.2	9.9			
FM (30°-60°)	6752.4	52.9			
FH (60°-80°)	2001.3	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	801.0	6.3	B2/1000		
BM (30°-60°)	1742.1	13.6	B2/2500		
BH (60°-80°)	207.8	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°	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6
2.5°	2410.3	2405.2	2388.1	2330.0	2294.2	2237.9	2196.9	2144.0	2085.9	2050.1	2014.3
5°	2666.3	2652.7	2606.6	2473.4	2371.0	2260.1	2171.3	2074.0	1969.9	1901.6	1838.4
7.5°	2912.1	2891.7	2830.2	2604.9	2449.5	2290.8	2164.5	2022.8	1876.0	1773.6	1695.0
10°	3152.8	3106.7	3009.4	2732.9	2522.9	2331.8	2183.2	2021.1	1848.7	1718.9	1631.9
12.5°	3350.8	3316.7	3183.5	2854.1	2584.4	2340.3	2157.6	2007.4	1891.4	1804.3	1724.1
15°	3521.5	3484.0	3357.7	2963.3	2637.3	2306.2	2050.1	1918.7	1937.4	1971.6	1903.3
17.5°	3678.6	3639.3	3502.8	3053.8	2657.8	2222.5	1899.9	1836.7	1940.9	2068.9	2043.3
20°	3840.7	3796.4	3629.1	3127.2	2651.0	2091.1	1748.0	1766.7	1913.5	2060.3	2074.0
22.5°	4030.2	3984.1	3789.5	3221.1	2645.8	1934.0	1616.5	1705.3	1862.3	1986.9	2010.8
25°	4281.1	4226.5	4013.1	3359.4	2659.5	1790.6	1522.6	1645.5	1775.3	1887.9	1901.6
27.5°	4612.3	4542.3	4270.9	3530.1	2688.5	1678.0	1481.7	1563.6	1664.3	1765.0	1777.0
30°	5044.2	4955.4	4566.2	3678.6	2674.9	1599.5	1454.4	1481.7	1541.4	1623.4	1625.1
32.5°	5549.4	5428.2	4897.4	3806.6	2557.1	1541.4	1416.8	1398.0	1411.7	1474.8	1486.8
35°	6143.5	5986.4	5262.7	3927.8	2342.0	1428.8	1348.5	1285.4	1280.2	1311.0	1340.0
37.5°	6824.6	6636.8	5723.6	4083.1	2087.7	1311.0	1247.8	1184.7	1157.3	1172.7	1217.1
40°	7452.7	7244.5	6204.9	4270.9	1828.2	1205.1	1130.0	1065.2	1032.7	1037.9	1092.5
42.5°	8190.2	7975.1	6793.8	4516.7	1613.1	1133.4	1007.1	940.6	897.9	921.8	984.9
45°	9310.0	9065.9	7652.5	4730.1	1442.4	1116.4	899.6	805.7	785.2	826.2	901.3
47.5°	10839.4	10540.7	8832.0	4859.8	1297.3	1131.7	824.5	696.5	701.6	747.7	822.8
50°	12356.9	12034.3	10195.9	4689.1	1177.8	1101.0	786.9	611.1	643.5	684.5	752.8
52.5°	13399.9	12980.0	10859.9	4195.8	1068.6	984.9	783.5	530.9	592.3	606.0	664.0
55°	13440.9	12923.7	10520.2	3308.2	920.1	831.3	747.7	464.3	536.0	541.1	590.6
57.5°	11781.7	11314.0	9193.9	2272.0	817.7	609.4	595.7	406.3	440.4	483.1	513.8
60°	8963.4	8565.7	6875.8	1041.3	621.3	387.5	408.0	349.9	329.5	392.6	423.3
62.5°	5489.7	5235.4	4124.1	460.9	396.0	206.5	247.5	278.2	247.5	271.4	297.0
65°	2179.8	2067.2	1565.3	196.3	162.2	104.1	112.7	162.2	174.1	191.2	215.1
67.5°	379.0	358.5	262.9	87.1	66.6	63.2	54.6	75.1	105.8	117.8	136.6
70°	49.5	47.8	42.7	35.8	34.1	30.7	23.9	47.8	71.7	75.1	87.1
72.5°	11.9	10.2	10.2	8.5	10.2	3.4	3.4	25.6	51.2	52.9	61.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	32.4	35.8	42.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6
2.5°	1985.2	1951.1	1939.1	1922.1	1899.9	1906.7	1876.0	1865.7	1881.1	1901.6	1896.5
5°	1804.3	1766.7	1741.1	1701.9	1695.0	1679.7	1669.4	1655.8	1672.9	1696.8	1701.9
7.5°	1660.9	1628.5	1602.9	1590.9	1582.4	1575.6	1555.1	1544.8	1544.8	1555.1	1563.6
10°	1599.5	1575.6	1570.4	1573.8	1587.5	1585.8	1567.0	1553.4	1536.3	1527.8	1538.0
12.5°	1684.8	1645.5	1638.7	1640.4	1657.5	1655.8	1635.3	1618.2	1614.8	1618.2	1650.7
15°	1829.9	1770.2	1725.8	1717.2	1725.8	1722.4	1707.0	1696.8	1701.9	1751.4	1806.0
17.5°	1959.6	1867.5	1787.2	1756.5	1754.8	1749.7	1734.3	1730.9	1756.5	1848.7	1928.9
20°	1997.2	1906.7	1792.3	1753.1	1744.5	1739.4	1722.4	1727.5	1759.9	1870.9	1939.1
22.5°	1947.7	1860.6	1741.1	1701.9	1695.0	1693.3	1676.3	1683.1	1710.4	1807.7	1864.0
25°	1853.8	1780.4	1655.8	1621.6	1621.6	1618.2	1602.9	1606.3	1623.4	1708.7	1763.3
27.5°	1739.4	1669.4	1565.3	1531.2	1536.3	1541.4	1522.6	1517.5	1531.2	1611.4	1643.8
30°	1608.0	1558.5	1476.6	1445.8	1444.1	1464.6	1439.0	1432.2	1450.9	1514.1	1520.9
32.5°	1480.0	1456.1	1398.0	1374.1	1375.8	1379.3	1365.6	1365.6	1382.7	1416.8	1415.1
35°	1355.4	1340.0	1329.7	1312.7	1311.0	1304.1	1304.1	1307.6	1326.3	1338.3	1316.1
37.5°	1235.9	1251.2	1263.2	1246.1	1232.5	1232.5	1232.5	1247.8	1264.9	1259.8	1222.2
40°	1130.0	1162.5	1200.0	1181.2	1148.8	1147.1	1153.9	1179.5	1205.1	1174.4	1140.3
42.5°	1039.6	1080.5	1133.4	1123.2	1087.4	1082.2	1087.4	1119.8	1140.3	1101.0	1063.5
45°	950.8	1002.0	1065.2	1065.2	1025.9	1020.8	1022.5	1065.2	1077.1	1031.0	983.2
47.5°	875.7	932.0	998.6	998.6	966.2	955.9	964.5	1008.8	1017.4	952.5	908.1
50°	804.0	865.4	938.8	933.7	911.5	903.0	918.4	966.2	955.9	884.2	838.1
52.5°	713.5	778.4	879.1	884.2	872.3	874.0	892.8	923.5	894.5	807.4	768.1
55°	631.6	698.2	798.9	826.2	826.2	824.5	833.0	856.9	833.0	728.9	681.1
57.5°	542.8	599.2	682.8	689.6	694.7	676.0	687.9	720.4	708.4	619.6	592.3
60°	445.5	493.3	541.1	546.2	524.0	484.8	507.0	544.5	553.1	486.5	455.8
62.5°	315.8	361.9	418.2	418.2	396.0	356.8	385.8	418.2	406.3	338.0	319.2
65°	235.6	278.2	320.9	339.7	320.9	293.6	315.8	339.7	320.9	264.6	237.3
67.5°	151.9	180.9	206.5	221.9	225.3	221.9	232.2	225.3	203.1	165.6	150.2
70°	92.2	107.5	121.2	134.9	145.1	150.2	155.3	140.0	117.8	97.3	92.2
72.5°	66.6	80.2	92.2	102.4	114.4	117.8	117.8	107.5	87.1	68.3	63.2
75°	46.1	58.0	68.3	75.1	85.3	88.8	88.8	80.2	64.9	49.5	44.4
77.5°	1.7	11.9	11.9	10.2	13.7	17.1	17.1	20.5	18.8	13.7	11.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6
2.5°	1906.7	1968.2	1985.2	2048.4	2104.7	2161.1	2229.3	2270.3	2331.8	2374.4	2398.3
5°	1718.9	1770.2	1831.6	1925.5	2022.8	2130.3	2260.1	2372.7	2514.4	2618.5	2652.7
7.5°	1582.4	1649.0	1720.7	1838.4	1971.6	2115.0	2297.6	2482.0	2698.8	2840.4	2930.9
10°	1556.8	1625.1	1720.7	1836.7	1976.7	2140.6	2364.2	2603.2	2874.6	3047.0	3149.4
12.5°	1679.7	1753.1	1794.1	1847.0	1952.8	2135.5	2422.2	2726.1	3045.3	3233.0	3342.3
15°	1860.6	1925.5	1858.9	1792.3	1860.6	2080.8	2454.7	2828.5	3195.5	3412.3	3524.9
17.5°	1985.2	1990.4	1845.3	1703.6	1722.4	1981.8	2466.6	2930.9	3356.0	3583.0	3700.8
20°	1973.3	1932.3	1785.5	1628.5	1570.4	1853.8	2453.0	3021.4	3518.1	3755.4	3871.5
22.5°	1881.1	1833.3	1708.7	1555.1	1442.4	1701.9	2429.1	3103.3	3666.6	3936.3	4045.6
25°	1770.2	1718.9	1616.5	1481.7	1360.5	1555.1	2410.3	3216.0	3854.4	4171.9	4257.2
27.5°	1640.4	1596.0	1509.0	1411.7	1326.3	1444.1	2405.2	3364.5	4081.4	4458.7	4518.4
30°	1514.1	1473.1	1404.9	1348.5	1312.7	1379.3	2388.1	3523.2	4352.8	4788.1	4853.0
32.5°	1392.9	1351.9	1309.3	1300.7	1302.4	1355.4	2330.0	3680.3	4675.5	5266.1	5313.9
35°	1288.8	1241.0	1223.9	1244.4	1282.0	1314.4	2166.2	3810.0	5022.0	5786.7	5826.0
37.5°	1189.8	1142.0	1140.3	1189.8	1230.7	1251.2	1973.3	3938.0	5489.7	6315.9	6365.4
40°	1099.3	1051.5	1068.6	1128.3	1160.8	1171.0	1739.4	4132.6	5984.7	6874.1	6846.8
42.5°	1022.5	973.0	983.2	1060.0	1089.1	1116.4	1524.3	4294.8	6461.0	7403.2	7394.7
45°	947.4	909.8	903.0	986.6	1012.2	1121.5	1367.3	4419.4	7073.8	8077.5	8091.2
47.5°	874.0	845.0	846.7	882.5	945.7	1147.1	1234.2	4501.3	7963.1	9146.1	8908.8
50°	807.4	785.2	804.0	763.0	903.0	1114.7	1119.8	4484.3	8956.6	10170.3	9694.0
52.5°	734.0	728.9	737.4	638.4	834.7	983.2	1012.2	4257.2	9422.6	10870.1	10598.7
55°	658.9	657.2	588.9	510.4	698.2	785.2	867.2	3552.3	9407.3	11242.3	11571.7
57.5°	570.1	556.5	447.2	416.5	542.8	546.2	790.3	2326.6	8337.0	10351.2	11034.0
60°	431.9	421.6	327.7	338.0	379.0	349.9	629.9	1159.0	6230.5	8063.8	8833.7
62.5°	298.7	285.1	244.1	261.2	244.1	199.7	385.8	573.6	3774.2	5092.0	5790.1
65°	218.5	203.1	167.3	143.4	114.4	114.4	146.8	220.2	1461.2	2164.5	2610.0
67.5°	134.9	128.0	99.0	71.7	70.0	75.1	76.8	109.2	235.6	375.5	459.2
70°	87.1	80.2	66.6	46.1	42.7	44.4	46.1	51.2	59.7	64.9	78.5
72.5°	59.7	56.3	47.8	25.6	20.5	22.2	23.9	23.9	29.0	27.3	32.4
75°	42.7	39.3	34.1	11.9	6.8	8.5	10.2	8.5	10.2	6.8	8.5
77.5°	11.9	11.9	8.5	1.7	0.0	1.7	3.4	3.4	1.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	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-SA5C-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6	2169.6
2.5°	2459.8	2499.0	2514.4	2492.2	2511.0	2480.3	2468.3	2422.2	2418.8	2410.3
5°	2790.9	2879.7	2932.6	2965.1	2927.5	2886.5	2825.1	2719.2	2686.8	2666.3
7.5°	3117.0	3255.2	3345.7	3388.4	3378.1	3294.5	3183.5	3006.0	2942.9	2912.1
10°	3400.3	3569.3	3678.6	3731.5	3709.3	3635.9	3477.1	3255.2	3171.6	3152.8
12.5°	3598.3	3753.7	3828.8	3874.9	3876.6	3847.6	3697.4	3473.7	3374.7	3350.8
15°	3723.0	3789.5	3791.2	3818.5	3866.3	3931.2	3861.2	3663.2	3557.4	3521.5
17.5°	3801.5	3728.1	3653.0	3659.8	3738.3	3910.7	3982.4	3830.5	3717.8	3678.6
20°	3857.8	3625.7	3485.7	3487.4	3567.6	3828.8	4066.1	3992.7	3876.6	3840.7
22.5°	3893.7	3535.2	3335.5	3330.3	3415.7	3731.5	4142.9	4185.6	4071.2	4030.2
25°	3967.1	3492.5	3245.0	3274.0	3349.1	3700.8	4247.0	4441.6	4335.8	4281.1
27.5°	4098.5	3535.2	3236.5	3303.0	3388.4	3791.2	4427.9	4783.0	4673.8	4612.3
30°	4325.5	3695.6	3367.9	3460.1	3562.5	4028.5	4731.8	5259.3	5102.2	5044.2
32.5°	4690.8	4028.5	3774.2	3972.2	4071.2	4417.7	5187.6	5793.5	5665.5	5549.4
35°	5194.4	4788.1	4759.1	5220.0	5196.1	5155.1	5747.5	6449.0	6256.1	6143.5
37.5°	5887.4	6010.3	6225.4	6682.9	6667.5	6355.1	6483.2	7068.7	6969.7	6824.6
40°	6752.9	7014.0	7379.3	8034.8	7830.0	7437.4	7386.2	7703.7	7623.4	7452.7
42.5°	7263.3	7713.9	8410.4	8999.3	8835.4	8149.2	8091.2	8552.0	8376.2	8190.2
45°	7500.5	8284.0	9649.6	10446.8	9950.1	8622.0	8599.8	9658.2	9559.2	9310.0
47.5°	7609.8	8859.3	11100.6	12307.4	11378.8	9036.8	8956.6	11262.8	11133.0	10839.4
50°	7731.0	9653.1	12848.6	14463.4	13104.6	9506.3	9564.3	12758.1	12703.5	12356.9
52.5°	7997.3	10492.9	15001.1	16928.3	15197.4	10242.0	10607.3	14168.1	13799.4	13399.9
55°	8396.7	11407.9	17240.7	19446.1	17332.8	11230.3	11735.6	14917.4	13883.0	13440.9
57.5°	7954.6	11636.6	18567.0	21204.3	18280.2	11233.7	10781.4	13618.4	12210.1	11781.7
60°	6312.5	10825.8	18056.6	20823.6	17472.8	9975.7	8255.0	10632.9	9250.2	8963.4
62.5°	4267.5	9079.5	15895.5	17611.1	14955.0	7847.1	5365.1	6915.0	5727.0	5489.7
65°	2338.6	6773.4	12843.4	13323.1	11704.9	5481.2	2760.2	3000.9	2285.7	2179.8
67.5°	645.2	4714.7	9449.9	8838.8	8212.4	3569.3	713.5	536.0	382.4	379.0
70°	162.2	3118.7	5662.1	5836.2	5035.6	2285.7	136.6	64.9	51.2	49.5
72.5°	68.3	1341.7	2686.8	3088.0	2577.6	1058.3	49.5	18.8	15.4	11.9
75°	8.5	107.5	228.7	346.5	237.3	114.4	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)