

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: P639799

Luminaire Tested: GWS-SA5C-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639799
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13061.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

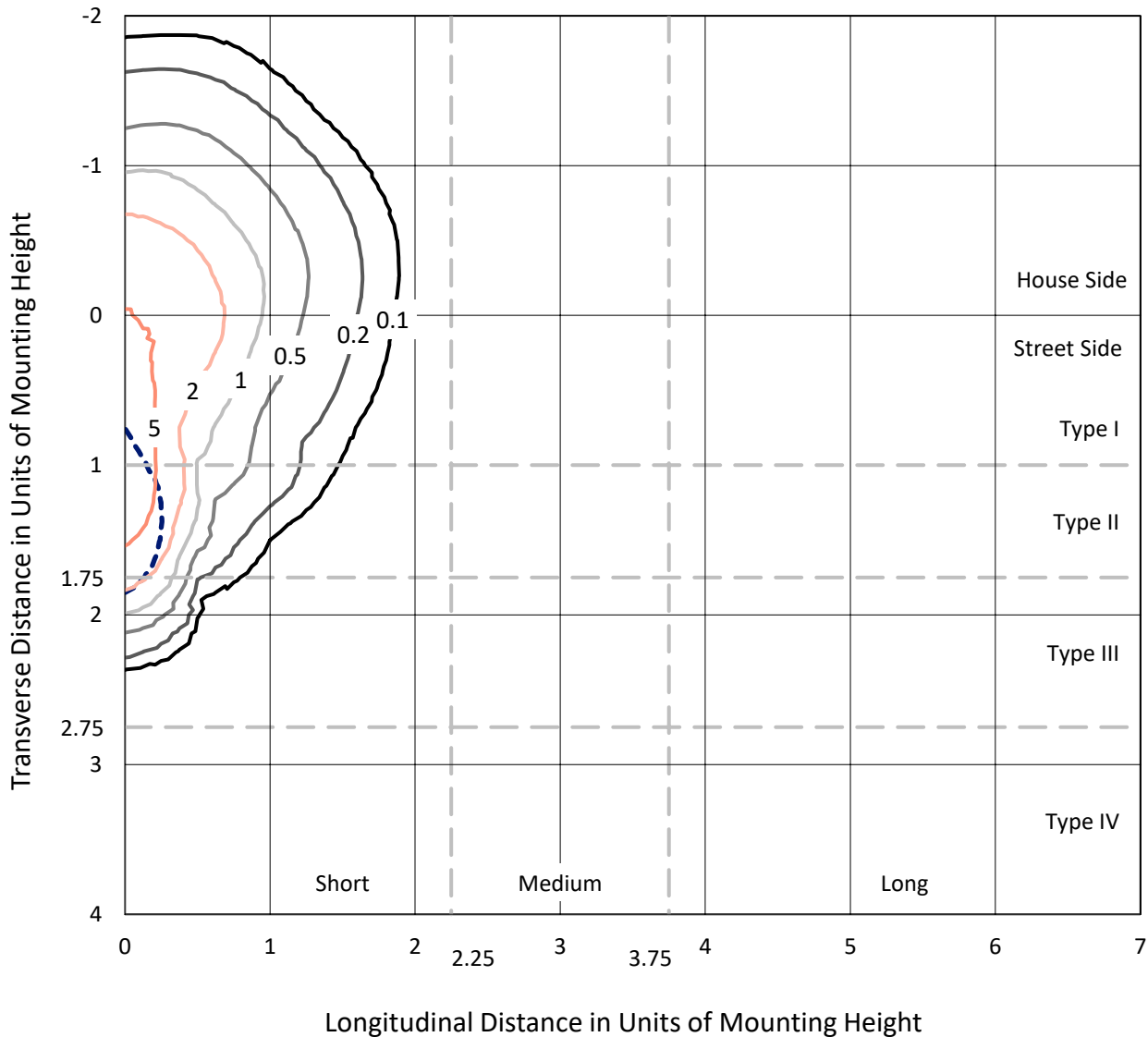
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

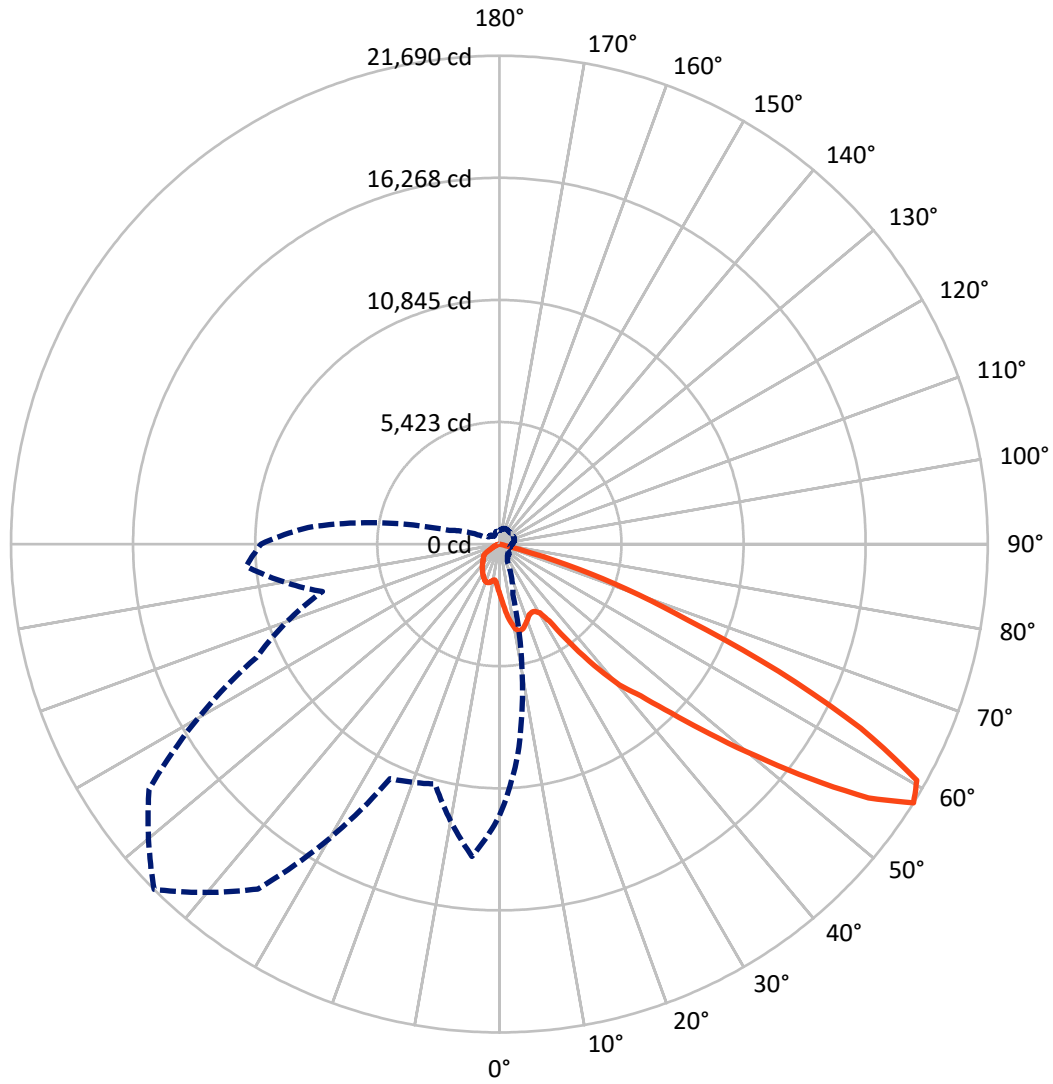
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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	2813.8	0.0	2813.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10247.5	0.0	10247.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	13061.3	0.0	13061.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.7
10°-20°	721.8	5.5
20°-30°	1171.4	9.0
30°-40°	1797.8	13.8
40°-50°	2871.2	22.0
50°-60°	4020.2	30.8
60°-70°	2061.2	15.8
70°-80°	198.5	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°	13061.3	100.0
0°-180°	13061.3	100.0

Coefficient of Utilization



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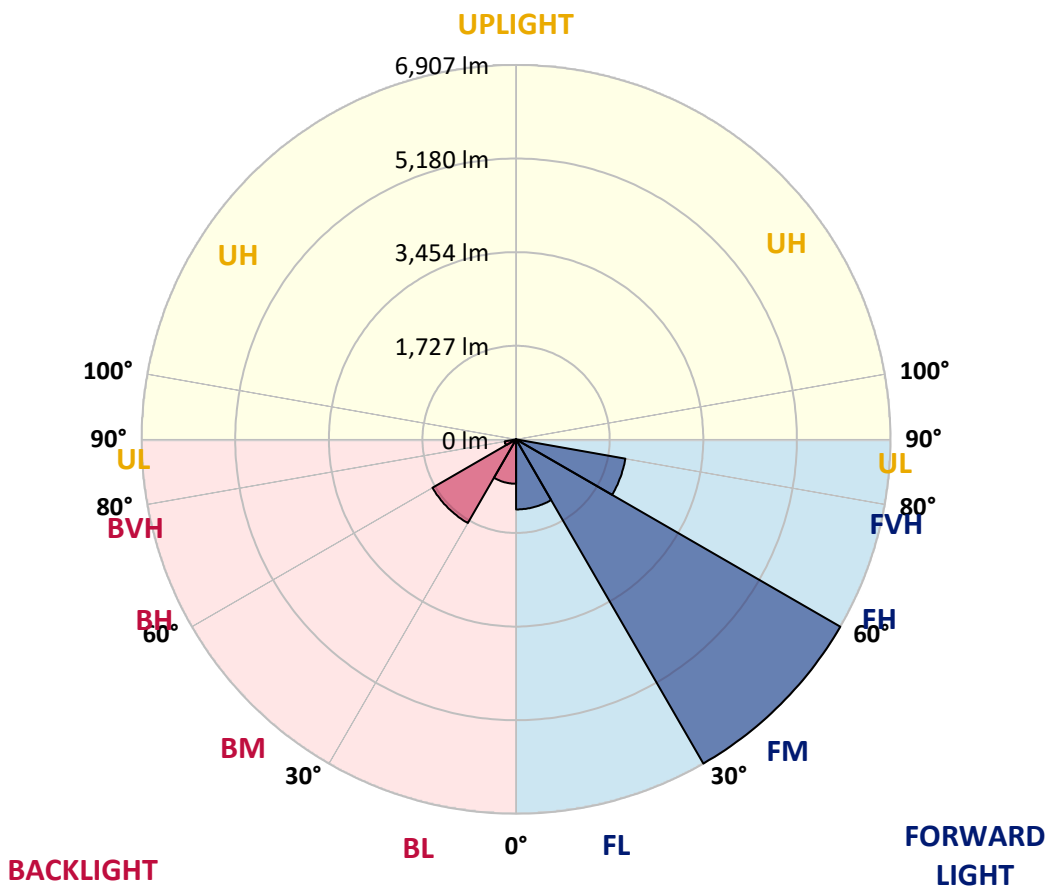
CATALOG NUMBER: GWS-SA5C-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.2	9.9			
FM (30°-60°)	6907.1	52.9			
FH (60°-80°)	2047.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	819.3	6.3	B2/1000		
BM (30°-60°)	1782.0	13.6	B2/2500		
BH (60°-80°)	212.5	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°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	2465.5	2460.3	2442.8	2383.4	2346.8	2289.2	2247.2	2193.1	2133.7	2097.1	2060.4
5°	2727.4	2713.5	2666.3	2530.1	2425.3	2311.9	2221.1	2121.5	2015.0	1945.2	1880.6
7.5°	2978.9	2957.9	2895.1	2664.6	2505.7	2343.3	2214.1	2069.1	1919.0	1814.2	1733.9
10°	3225.1	3177.9	3078.4	2795.5	2580.8	2385.2	2233.3	2067.4	1891.0	1758.3	1669.3
12.5°	3427.6	3392.7	3256.5	2919.5	2643.6	2393.9	2207.1	2053.4	1934.7	1845.6	1763.6
15°	3602.2	3563.8	3434.6	3031.3	2697.7	2359.0	2097.1	1962.6	1981.8	2016.8	1946.9
17.5°	3762.9	3722.7	3583.0	3123.8	2718.7	2273.4	1943.4	1878.8	1985.3	2116.3	2090.1
20°	3928.8	3883.4	3712.2	3198.9	2711.7	2139.0	1788.0	1807.2	1957.4	2107.6	2121.5
22.5°	4122.6	4075.4	3876.4	3294.9	2706.5	1978.3	1653.6	1744.4	1905.0	2032.5	2056.9
25°	4379.2	4323.4	4105.1	3436.3	2720.4	1831.7	1557.5	1683.3	1816.0	1931.2	1945.2
27.5°	4718.0	4646.4	4368.8	3611.0	2750.1	1716.4	1515.6	1599.4	1702.5	1805.5	1817.7
30°	5159.8	5069.0	4670.8	3762.9	2736.2	1636.1	1487.7	1515.6	1576.7	1660.6	1662.3
32.5°	5676.6	5552.6	5009.6	3893.8	2615.7	1576.7	1449.3	1430.1	1444.0	1508.6	1520.9
35°	6284.3	6123.6	5383.3	4017.8	2395.7	1461.5	1379.4	1314.8	1309.6	1341.0	1370.7
37.5°	6981.0	6788.9	5854.7	4176.7	2135.5	1341.0	1276.4	1211.8	1183.9	1199.6	1245.0
40°	7623.5	7410.5	6347.1	4368.8	1870.1	1232.8	1155.9	1089.6	1056.4	1061.6	1117.5
42.5°	8377.8	8157.8	6949.5	4620.2	1650.1	1159.4	1030.2	962.1	918.5	942.9	1007.5
45°	9523.3	9273.6	7827.8	4838.5	1475.5	1142.0	920.2	824.2	803.2	845.1	921.9
47.5°	11087.8	10782.2	9034.4	4971.2	1327.0	1157.7	843.4	712.4	717.7	764.8	841.6
50°	12640.1	12310.1	10429.5	4796.6	1204.8	1126.2	805.0	625.1	658.3	700.2	770.0
52.5°	13707.0	13277.4	11108.8	4291.9	1093.1	1007.5	801.5	543.0	605.9	619.9	679.2
55°	13748.9	13219.8	10761.3	3384.0	941.2	850.4	764.8	474.9	548.3	553.5	604.2
57.5°	12051.7	11573.2	9404.6	2324.1	836.4	623.4	609.4	415.6	450.5	494.1	525.6
60°	9168.8	8762.0	7033.3	1065.1	635.6	396.4	417.3	358.0	337.0	401.6	433.0
62.5°	5615.5	5355.3	4218.6	471.5	405.1	211.3	253.2	284.6	253.2	277.6	303.8
65°	2229.8	2114.5	1601.2	200.8	165.9	106.5	115.2	165.9	178.1	195.6	220.0
67.5°	387.6	366.7	268.9	89.1	68.1	64.6	55.9	76.8	108.3	120.5	139.7
70°	50.6	48.9	43.7	36.7	34.9	31.4	24.4	48.9	73.3	76.8	89.1
72.5°	12.2	10.5	10.5	8.7	10.5	3.5	3.5	26.2	52.4	54.1	62.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	33.2	36.7	43.7
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°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	2030.7	1995.8	1983.6	1966.1	1943.4	1950.4	1919.0	1908.5	1924.2	1945.2	1939.9
5°	1845.6	1807.2	1781.0	1740.9	1733.9	1718.2	1707.7	1693.7	1711.2	1735.6	1740.9
7.5°	1699.0	1665.8	1639.6	1627.4	1618.6	1611.7	1590.7	1580.2	1580.2	1590.7	1599.4
10°	1636.1	1611.7	1606.4	1609.9	1623.9	1622.1	1602.9	1589.0	1571.5	1562.8	1573.2
12.5°	1723.4	1683.3	1676.3	1678.0	1695.5	1693.7	1672.8	1655.3	1651.8	1655.3	1688.5
15°	1871.8	1810.7	1765.3	1756.6	1765.3	1761.8	1746.1	1735.6	1740.9	1791.5	1847.4
17.5°	2004.5	1910.2	1828.2	1796.7	1795.0	1789.8	1774.0	1770.6	1796.7	1891.0	1973.1
20°	2043.0	1950.4	1833.4	1793.3	1784.5	1779.3	1761.8	1767.1	1800.2	1913.7	1983.6
22.5°	1992.3	1903.3	1781.0	1740.9	1733.9	1732.1	1714.7	1721.7	1749.6	1849.1	1906.8
25°	1896.3	1821.2	1693.7	1658.8	1658.8	1655.3	1639.6	1643.1	1660.6	1747.9	1803.7
27.5°	1779.3	1707.7	1601.2	1566.3	1571.5	1576.7	1557.5	1552.3	1566.3	1648.3	1681.5
30°	1644.8	1594.2	1510.4	1479.0	1477.2	1498.2	1472.0	1465.0	1484.2	1548.8	1555.8
32.5°	1513.9	1489.4	1430.1	1405.6	1407.4	1410.9	1396.9	1396.9	1414.4	1449.3	1447.5
35°	1386.4	1370.7	1360.2	1342.8	1341.0	1334.0	1334.0	1337.5	1356.7	1369.0	1346.3
37.5°	1264.2	1279.9	1292.1	1274.7	1260.7	1260.7	1260.7	1276.4	1293.9	1288.6	1250.2
40°	1155.9	1189.1	1227.5	1208.3	1175.1	1173.4	1180.4	1206.6	1232.8	1201.3	1166.4
42.5°	1063.4	1105.3	1159.4	1148.9	1112.3	1107.0	1112.3	1145.4	1166.4	1126.2	1087.8
45°	972.6	1025.0	1089.6	1089.6	1049.4	1044.2	1045.9	1089.6	1101.8	1054.7	1005.8
47.5°	895.8	953.4	1021.5	1021.5	988.3	977.8	986.6	1032.0	1040.7	974.3	928.9
50°	822.4	885.3	960.4	955.1	932.4	923.7	939.4	988.3	977.8	904.5	857.3
52.5°	729.9	796.2	899.2	904.5	892.3	894.0	913.2	944.6	915.0	825.9	785.8
55°	646.1	714.2	817.2	845.1	845.1	843.4	852.1	876.5	852.1	745.6	696.7
57.5°	555.3	612.9	698.4	705.4	710.7	691.5	703.7	736.9	724.6	633.8	605.9
60°	455.7	504.6	553.5	558.8	536.1	495.9	518.6	557.0	565.7	497.6	466.2
62.5°	323.0	370.2	427.8	427.8	405.1	364.9	394.6	427.8	415.6	345.7	326.5
65°	241.0	284.6	328.3	347.5	328.3	300.3	323.0	347.5	328.3	270.6	242.7
67.5°	155.4	185.1	211.3	227.0	230.5	227.0	237.5	230.5	207.8	169.4	153.7
70°	94.3	110.0	124.0	137.9	148.4	153.7	158.9	143.2	120.5	99.5	94.3
72.5°	68.1	82.1	94.3	104.8	117.0	120.5	120.5	110.0	89.1	69.8	64.6
75°	47.1	59.4	69.8	76.8	87.3	90.8	90.8	82.1	66.4	50.6	45.4
77.5°	1.7	12.2	12.2	10.5	14.0	17.5	17.5	21.0	19.2	14.0	12.2
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°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	1950.4	2013.3	2030.7	2095.3	2153.0	2210.6	2280.4	2322.3	2385.2	2428.8	2453.3
5°	1758.3	1810.7	1873.6	1969.6	2069.1	2179.1	2311.9	2427.1	2572.0	2678.5	2713.5
7.5°	1618.6	1686.7	1760.1	1880.6	2016.8	2163.4	2350.3	2538.8	2760.6	2905.5	2998.1
10°	1592.5	1662.3	1760.1	1878.8	2022.0	2189.6	2418.4	2662.8	2940.5	3116.8	3221.6
12.5°	1718.2	1793.3	1835.2	1889.3	1997.6	2184.4	2477.7	2788.5	3115.1	3307.1	3418.9
15°	1903.3	1969.6	1901.5	1833.4	1903.3	2128.5	2510.9	2893.3	3268.7	3490.5	3605.7
17.5°	2030.7	2036.0	1887.5	1742.6	1761.8	2027.2	2523.1	2998.1	3432.9	3665.1	3785.6
20°	2018.5	1976.6	1826.4	1665.8	1606.4	1896.3	2509.2	3090.6	3598.7	3841.4	3960.2
22.5°	1924.2	1875.3	1747.9	1590.7	1475.5	1740.9	2484.7	3174.4	3750.6	4026.5	4138.3
25°	1810.7	1758.3	1653.6	1515.6	1391.7	1590.7	2465.5	3289.7	3942.7	4267.5	4354.8
27.5°	1678.0	1632.6	1543.6	1444.0	1356.7	1477.2	2460.3	3441.6	4175.0	4560.8	4622.0
30°	1548.8	1506.9	1437.1	1379.4	1342.8	1410.9	2442.8	3604.0	4452.6	4897.8	4964.2
32.5°	1424.8	1382.9	1339.3	1330.5	1332.3	1386.4	2383.4	3764.6	4782.6	5386.8	5435.6
35°	1318.3	1269.4	1252.0	1272.9	1311.3	1344.5	2215.8	3897.3	5137.1	5919.3	5959.5
37.5°	1217.0	1168.1	1166.4	1217.0	1258.9	1279.9	2018.5	4028.3	5615.5	6460.6	6511.3
40°	1124.5	1075.6	1093.1	1154.2	1187.4	1197.8	1779.3	4227.3	6121.9	7031.6	7003.7
42.5°	1045.9	995.3	1005.8	1084.3	1114.0	1142.0	1559.3	4393.2	6609.0	7572.9	7564.2
45°	969.1	930.7	923.7	1009.3	1035.4	1147.2	1398.6	4520.7	7235.9	8262.6	8276.6
47.5°	894.0	864.3	866.1	902.7	967.3	1173.4	1262.4	4604.5	8145.6	9355.7	9113.0
50°	825.9	803.2	822.4	780.5	923.7	1140.2	1145.4	4587.0	9161.8	10403.3	9916.2
52.5°	750.8	745.6	754.3	653.0	853.8	1005.8	1035.4	4354.8	9638.5	11119.2	10841.6
55°	674.0	672.3	602.4	522.1	714.2	803.2	887.0	3633.7	9622.8	11499.9	11836.9
57.5°	583.2	569.2	457.5	426.1	555.3	558.8	808.4	2380.0	8528.0	10588.4	11286.9
60°	441.8	431.3	335.3	345.7	387.6	358.0	644.3	1185.6	6373.3	8248.6	9036.1
62.5°	305.6	291.6	249.7	267.2	249.7	204.3	394.6	586.7	3860.7	5208.7	5922.8
65°	223.5	207.8	171.1	146.7	117.0	117.0	150.2	225.2	1494.7	2214.1	2669.8
67.5°	137.9	131.0	101.3	73.3	71.6	76.8	78.6	111.8	241.0	384.1	469.7
70°	89.1	82.1	68.1	47.1	43.7	45.4	47.1	52.4	61.1	66.4	80.3
72.5°	61.1	57.6	48.9	26.2	21.0	22.7	24.4	24.4	29.7	27.9	33.2
75°	43.7	40.2	34.9	12.2	7.0	8.7	10.5	8.7	10.5	7.0	8.7
77.5°	12.2	12.2	8.7	1.7	0.0	1.7	3.5	3.5	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-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	2516.1	2556.3	2572.0	2549.3	2568.5	2537.1	2524.9	2477.7	2474.2	2465.5
5°	2854.9	2945.7	2999.8	3033.0	2994.6	2952.7	2889.8	2781.6	2748.4	2727.4
7.5°	3188.4	3329.8	3422.4	3466.0	3455.6	3370.0	3256.5	3074.9	3010.3	2978.9
10°	3478.3	3651.1	3762.9	3817.0	3794.3	3719.2	3556.8	3329.8	3244.3	3225.1
12.5°	3680.8	3839.7	3916.5	3963.7	3965.4	3935.7	3782.1	3553.3	3452.1	3427.6
15°	3808.3	3876.4	3878.1	3906.1	3954.9	4021.3	3949.7	3747.2	3638.9	3602.2
17.5°	3888.6	3813.5	3736.7	3743.7	3824.0	4000.3	4073.7	3918.3	3803.0	3762.9
20°	3946.2	3708.7	3565.6	3567.3	3649.4	3916.5	4159.2	4084.2	3965.4	3928.8
22.5°	3982.9	3616.2	3411.9	3406.7	3494.0	3817.0	4237.8	4281.5	4164.5	4122.6
25°	4058.0	3572.5	3319.4	3349.0	3425.9	3785.6	4344.3	4543.4	4435.1	4379.2
27.5°	4192.4	3616.2	3310.6	3378.7	3466.0	3878.1	4529.4	4892.6	4780.9	4718.0
30°	4424.6	3780.3	3445.1	3539.4	3644.1	4120.8	4840.2	5379.8	5219.1	5159.8
32.5°	4798.3	4120.8	3860.7	4063.2	4164.5	4518.9	5306.4	5926.3	5795.3	5676.6
35°	5313.4	4897.8	4868.2	5339.6	5315.2	5273.3	5879.2	6596.8	6399.5	6284.3
37.5°	6022.3	6148.1	6368.1	6836.0	6820.3	6500.8	6631.7	7230.6	7129.4	6981.0
40°	6907.6	7174.8	7548.4	8218.9	8009.4	7607.8	7555.4	7880.2	7798.1	7623.5
42.5°	7429.7	7890.7	8603.1	9205.5	9037.9	8335.9	8276.6	8748.0	8568.2	8377.8
45°	7672.4	8473.9	9870.8	10686.2	10178.1	8819.6	8796.9	9879.5	9778.2	9523.3
47.5°	7784.2	9062.3	11355.0	12589.5	11639.6	9243.9	9161.8	11520.8	11388.1	11087.8
50°	7908.1	9874.3	13143.0	14794.8	13404.9	9724.1	9783.5	13050.4	12994.6	12640.1
52.5°	8180.5	10733.4	15344.8	17316.2	15545.6	10476.7	10850.3	14492.7	14115.6	13707.0
55°	8589.1	11669.3	17635.7	19891.7	17730.0	11487.7	12004.5	15259.3	14201.1	13748.9
57.5°	8136.9	11903.2	18992.5	21690.2	18699.1	11491.2	11028.4	13930.5	12489.9	12051.7
60°	6457.1	11073.8	18470.4	21300.8	17873.2	10204.3	8444.2	10876.5	9462.2	9168.8
62.5°	4365.3	9287.6	16259.8	18014.6	15297.7	8026.9	5488.0	7073.5	5858.2	5615.5
65°	2392.2	6928.6	13137.7	13628.4	11973.1	5606.8	2823.5	3069.7	2338.0	2229.8
67.5°	660.0	4822.8	9666.5	9041.4	8400.5	3651.1	729.9	548.3	391.1	387.6
70°	165.9	3190.1	5791.9	5970.0	5151.0	2338.0	139.7	66.4	52.4	50.6
72.5°	69.8	1372.4	2748.4	3158.7	2636.6	1082.6	50.6	19.2	15.7	12.2
75°	8.7	110.0	234.0	354.5	242.7	117.0	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)