

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: P640514

Luminaire Tested: GWS-SA5E-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640514
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14827.7 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

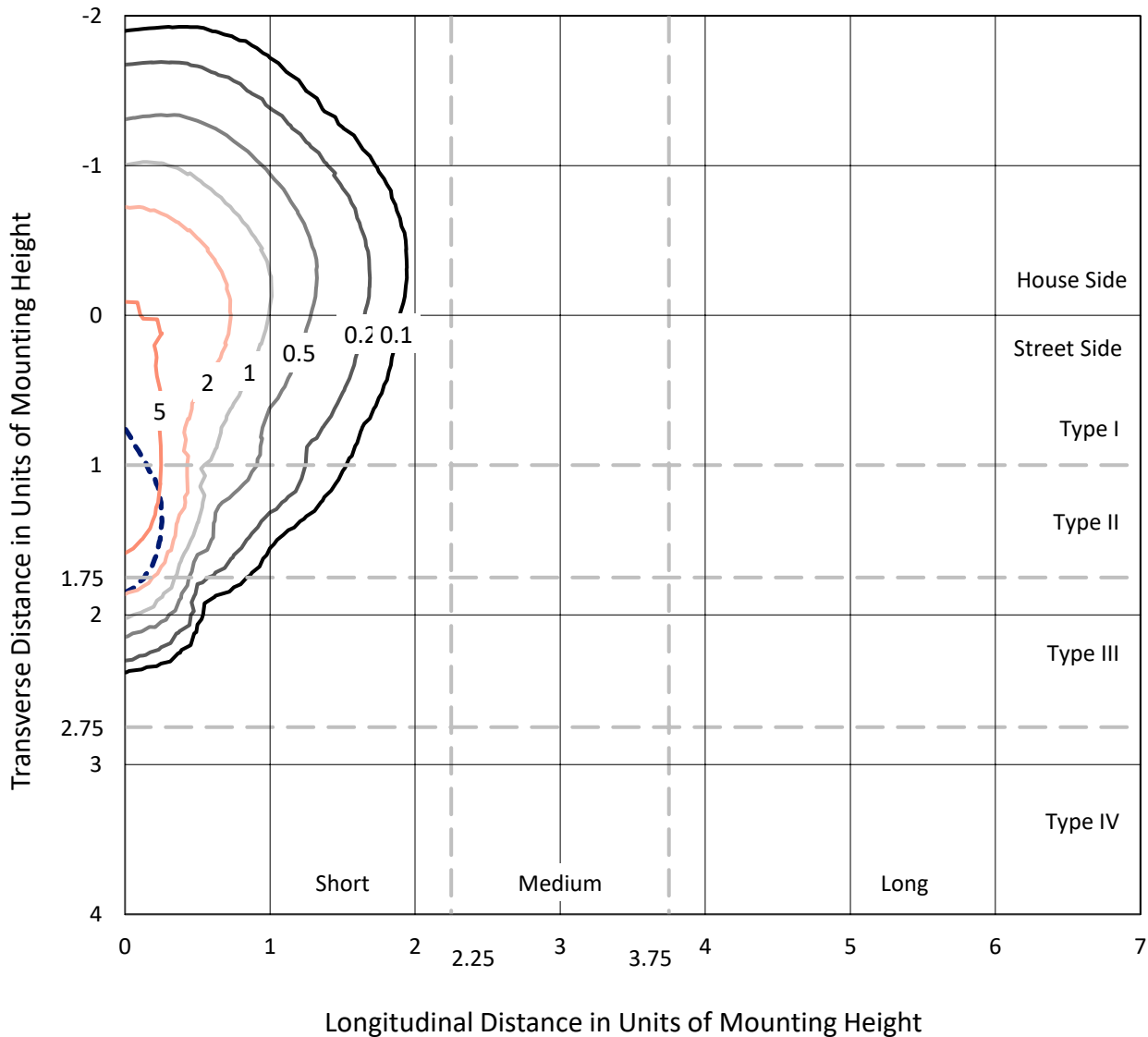
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

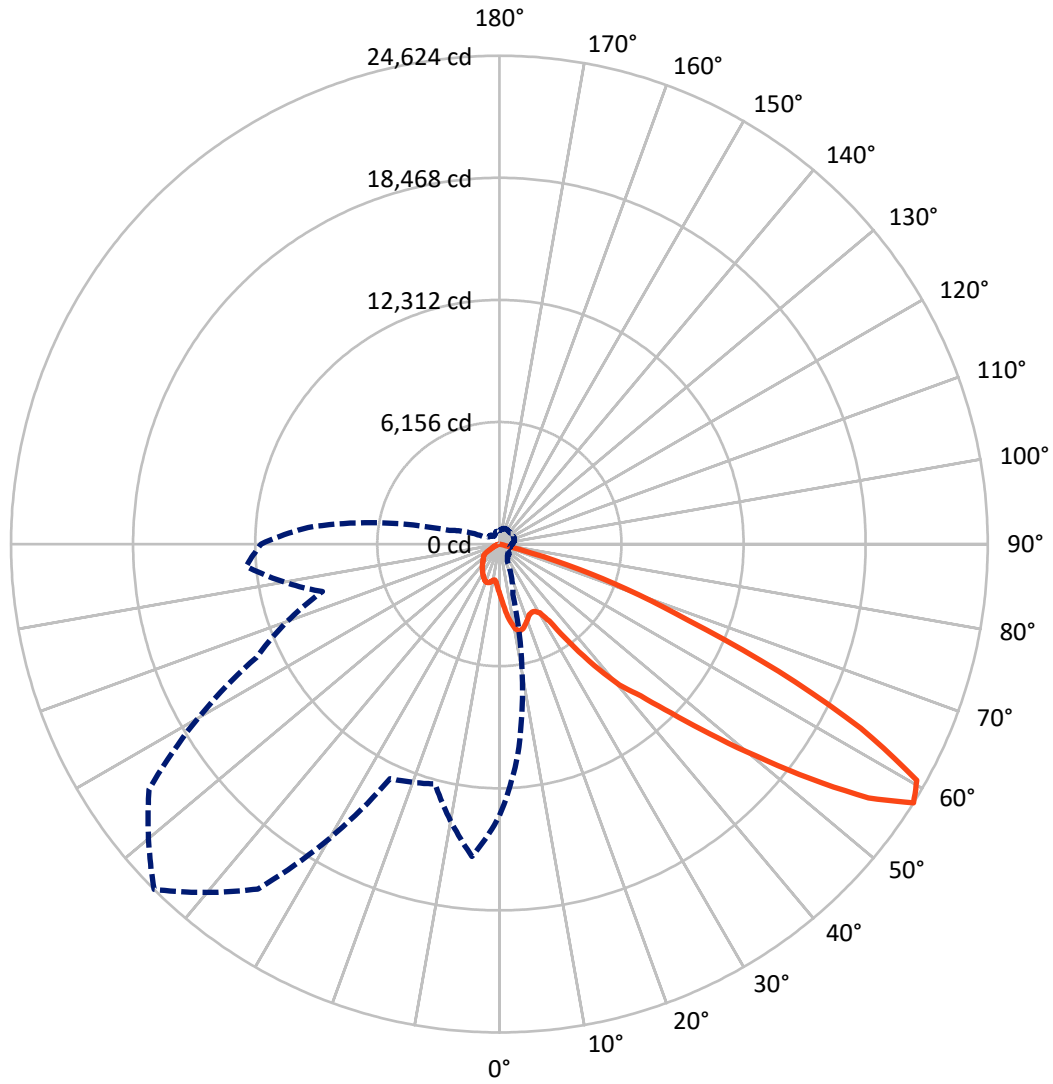
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	3194.4	0.0	3194.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11633.3	0.0	11633.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	14827.7	0.0	14827.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	1.7
10°-20°	819.4	5.5
20°-30°	1329.8	9.0
30°-40°	2040.9	13.8
40°-50°	3259.5	22.0
50°-60°	4563.8	30.8
60°-70°	2340.0	15.8
70°-80°	225.3	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°	14827.7	100.0
0°-180°	14827.7	100.0

Coefficient of Utilization



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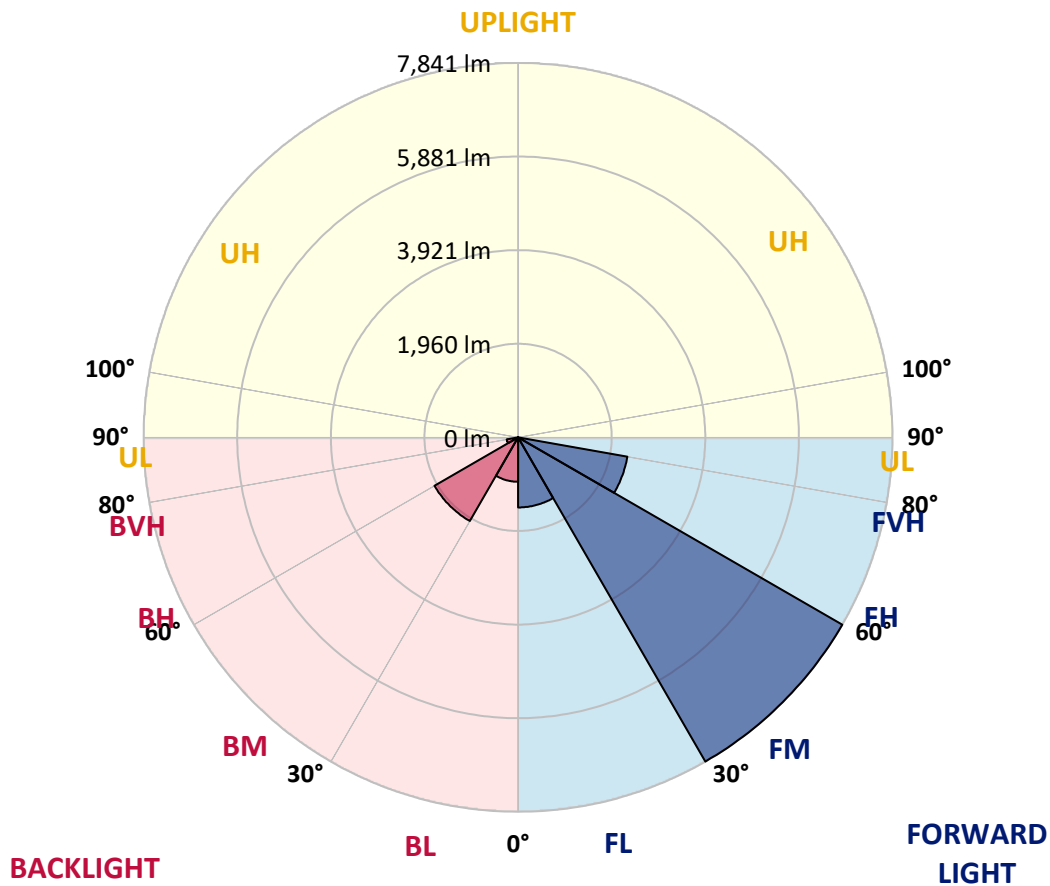
CATALOG NUMBER: GWS-SA5E-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.0	9.9			
FM (30°-60°)	7841.2	52.9			
FH (60°-80°)	2324.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	930.1	6.3	B2/1000		
BM (30°-60°)	2023.0	13.6	B2/2500		
BH (60°-80°)	241.3	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°	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4
2.5°	2798.9	2793.0	2773.2	2705.8	2664.2	2598.7	2551.2	2489.7	2422.3	2380.7	2339.1
5°	3096.3	3080.4	3026.9	2872.3	2753.4	2624.5	2521.4	2408.4	2287.5	2208.2	2134.9
7.5°	3381.7	3357.9	3286.6	3024.9	2844.5	2660.2	2513.5	2349.0	2178.5	2059.6	1968.4
10°	3661.2	3607.7	3494.7	3173.6	2929.8	2707.8	2535.3	2347.0	2146.8	1996.1	1895.0
12.5°	3891.2	3851.5	3696.9	3314.3	3001.1	2717.7	2505.6	2331.1	2196.3	2095.2	2002.1
15°	4089.4	4045.8	3899.1	3441.2	3062.6	2678.0	2380.7	2228.1	2249.9	2289.5	2210.2
17.5°	4271.8	4226.2	4067.6	3546.3	3086.4	2580.9	2206.2	2132.9	2253.8	2402.5	2372.8
20°	4460.1	4408.5	4214.3	3631.5	3078.4	2428.3	2029.8	2051.6	2222.1	2392.6	2408.4
22.5°	4680.1	4626.6	4400.6	3740.5	3072.5	2245.9	1877.2	1980.3	2162.6	2307.3	2335.1
25°	4971.5	4908.1	4660.3	3901.1	3088.4	2079.4	1768.2	1910.9	2061.5	2192.4	2208.2
27.5°	5356.1	5274.8	4959.6	4099.3	3122.1	1948.6	1720.6	1815.7	1932.7	2049.7	2063.5
30°	5857.6	5754.5	5302.5	4271.8	3106.2	1857.4	1688.9	1720.6	1790.0	1885.1	1887.1
32.5°	6444.3	6303.6	5687.1	4420.4	2969.4	1790.0	1645.3	1623.5	1639.3	1712.7	1726.5
35°	7134.1	6951.8	6111.3	4561.2	2719.7	1659.1	1566.0	1492.6	1486.7	1522.4	1556.1
37.5°	7925.1	7707.0	6646.5	4741.6	2424.3	1522.4	1449.0	1375.7	1344.0	1361.8	1413.3
40°	8654.5	8412.7	7205.5	4959.6	2123.0	1399.5	1312.3	1236.9	1199.3	1205.2	1268.6
42.5°	9510.9	9261.1	7889.4	5245.0	1873.2	1316.2	1169.5	1092.2	1042.7	1070.4	1143.8
45°	10811.2	10527.8	8886.4	5492.8	1675.0	1296.4	1044.6	935.6	911.8	959.4	1046.6
47.5°	12587.3	12240.4	10256.2	5643.5	1506.5	1314.2	957.4	808.8	814.7	868.2	955.4
50°	14349.5	13974.9	11840.0	5445.3	1367.8	1278.6	913.8	709.6	747.3	794.9	874.2
52.5°	15560.7	15073.1	12611.1	4872.4	1240.9	1143.8	909.9	616.5	687.8	703.7	771.1
55°	15608.3	15007.7	12216.6	3841.6	1068.4	965.4	868.2	539.2	622.4	628.4	685.9
57.5°	13681.5	13138.4	10676.4	2638.4	949.5	707.7	691.8	471.8	511.4	561.0	596.7
60°	10408.8	9947.0	7984.5	1209.2	721.5	450.0	473.8	406.4	382.6	455.9	491.6
62.5°	6374.9	6079.6	4789.1	535.2	459.9	239.9	287.4	323.1	287.4	315.2	344.9
65°	2531.3	2400.5	1817.7	228.0	188.3	120.9	130.8	188.3	202.2	222.0	249.8
67.5°	440.1	416.3	305.3	101.1	77.3	73.3	63.4	87.2	122.9	136.8	158.6
70°	57.5	55.5	49.6	41.6	39.6	35.7	27.8	55.5	83.3	87.2	101.1
72.5°	13.9	11.9	11.9	9.9	11.9	4.0	4.0	29.7	59.5	61.4	71.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	37.7	41.6	49.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4
2.5°	2305.4	2265.7	2251.8	2232.0	2206.2	2214.2	2178.5	2166.6	2184.4	2208.2	2202.3
5°	2095.2	2051.6	2021.9	1976.3	1968.4	1950.5	1938.6	1922.8	1942.6	1970.4	1976.3
7.5°	1928.7	1891.1	1861.3	1847.5	1837.6	1829.6	1805.8	1793.9	1793.9	1805.8	1815.7
10°	1857.4	1829.6	1823.7	1827.6	1843.5	1841.5	1819.7	1803.9	1784.0	1774.1	1786.0
12.5°	1956.5	1910.9	1903.0	1904.9	1924.8	1922.8	1899.0	1879.2	1875.2	1879.2	1916.8
15°	2125.0	2055.6	2004.1	1994.1	2004.1	2000.1	1982.3	1970.4	1976.3	2033.8	2097.2
17.5°	2275.6	2168.6	2075.4	2039.7	2037.8	2031.8	2014.0	2010.0	2039.7	2146.8	2239.9
20°	2319.2	2214.2	2081.4	2035.8	2025.9	2019.9	2000.1	2006.0	2043.7	2172.6	2251.8
22.5°	2261.8	2160.7	2021.9	1976.3	1968.4	1966.4	1946.6	1954.5	1986.2	2099.2	2164.6
25°	2152.7	2067.5	1922.8	1883.1	1883.1	1879.2	1861.3	1865.3	1885.1	1984.2	2047.7
27.5°	2019.9	1938.6	1817.7	1778.1	1784.0	1790.0	1768.2	1762.2	1778.1	1871.2	1908.9
30°	1867.3	1809.8	1714.7	1679.0	1677.0	1700.8	1671.0	1663.1	1684.9	1758.3	1766.2
32.5°	1718.6	1690.9	1623.5	1595.7	1597.7	1601.7	1585.8	1585.8	1605.6	1645.3	1643.3
35°	1573.9	1556.1	1544.2	1524.4	1522.4	1514.4	1514.4	1518.4	1540.2	1554.1	1528.3
37.5°	1435.2	1453.0	1466.9	1447.0	1431.2	1431.2	1431.2	1449.0	1468.9	1462.9	1419.3
40°	1312.3	1349.9	1393.5	1371.7	1334.1	1332.1	1340.0	1369.7	1399.5	1363.8	1324.1
42.5°	1207.2	1254.8	1316.2	1304.3	1262.7	1256.7	1262.7	1300.4	1324.1	1278.6	1234.9
45°	1104.1	1163.6	1236.9	1236.9	1191.3	1185.4	1187.4	1236.9	1250.8	1197.3	1141.8
47.5°	1016.9	1082.3	1159.6	1159.6	1122.0	1110.1	1120.0	1171.5	1181.4	1106.1	1054.6
50°	933.6	1005.0	1090.2	1084.3	1058.5	1048.6	1066.5	1122.0	1110.1	1026.8	973.3
52.5°	828.6	903.9	1020.9	1026.8	1012.9	1014.9	1036.7	1072.4	1038.7	937.6	892.0
55°	733.4	810.7	927.7	959.4	959.4	957.4	967.3	995.1	967.3	846.4	790.9
57.5°	630.4	695.8	792.9	800.8	806.8	785.0	798.8	836.5	822.6	719.6	687.8
60°	517.4	572.9	628.4	634.3	608.6	563.0	588.7	632.3	642.3	564.9	529.3
62.5°	366.7	420.2	485.7	485.7	459.9	414.3	448.0	485.7	471.8	392.5	370.7
65°	273.6	323.1	372.7	394.5	372.7	340.9	366.7	394.5	372.7	307.2	275.5
67.5°	176.4	210.1	239.9	257.7	261.7	257.7	269.6	261.7	235.9	192.3	174.4
70°	107.0	124.9	140.7	156.6	168.5	174.4	180.4	162.5	136.8	113.0	107.0
72.5°	77.3	93.2	107.0	118.9	132.8	136.8	136.8	124.9	101.1	79.3	73.3
75°	53.5	67.4	79.3	87.2	99.1	103.1	103.1	93.2	75.3	57.5	51.5
77.5°	2.0	13.9	13.9	11.9	15.9	19.8	19.8	23.8	21.8	15.9	13.9
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°	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4
2.5°	2214.2	2285.5	2305.4	2378.7	2444.1	2509.5	2588.8	2636.4	2707.8	2757.3	2785.1
5°	1996.1	2055.6	2127.0	2236.0	2349.0	2473.9	2624.5	2755.3	2919.9	3040.8	3080.4
7.5°	1837.6	1914.9	1998.1	2134.9	2289.5	2456.0	2668.1	2882.2	3133.9	3298.5	3403.5
10°	1807.8	1887.1	1998.1	2132.9	2295.5	2485.7	2745.4	3022.9	3338.1	3538.3	3657.3
12.5°	1950.5	2035.8	2083.3	2144.8	2267.7	2479.8	2812.8	3165.7	3536.3	3754.4	3881.3
15°	2160.7	2236.0	2158.7	2081.4	2160.7	2416.4	2850.5	3284.6	3710.8	3962.5	4093.4
17.5°	2305.4	2311.3	2142.8	1978.3	2000.1	2301.4	2864.4	3403.5	3897.1	4160.8	4297.5
20°	2291.5	2243.9	2073.4	1891.1	1823.7	2152.7	2848.5	3508.6	4085.4	4361.0	4495.8
22.5°	2184.4	2128.9	1984.2	1805.8	1675.0	1976.3	2820.7	3603.7	4257.9	4571.1	4697.9
25°	2055.6	1996.1	1877.2	1720.6	1579.9	1805.8	2798.9	3734.6	4475.9	4844.6	4943.7
27.5°	1904.9	1853.4	1752.3	1639.3	1540.2	1677.0	2793.0	3907.0	4739.6	5177.6	5247.0
30°	1758.3	1710.7	1631.4	1566.0	1524.4	1601.7	2773.2	4091.4	5054.7	5560.2	5635.6
32.5°	1617.5	1569.9	1520.4	1510.5	1512.5	1573.9	2705.8	4273.7	5429.4	6115.3	6170.8
35°	1496.6	1441.1	1421.3	1445.1	1488.7	1526.3	2515.5	4424.4	5831.8	6719.8	6765.4
37.5°	1381.6	1326.1	1324.1	1381.6	1429.2	1453.0	2291.5	4573.1	6374.9	7334.3	7391.8
40°	1276.6	1221.1	1240.9	1310.3	1347.9	1359.8	2019.9	4799.0	6949.8	7982.5	7950.8
42.5°	1187.4	1129.9	1141.8	1231.0	1264.7	1296.4	1770.2	4987.4	7502.8	8597.0	8587.1
45°	1100.2	1056.5	1048.6	1145.7	1175.5	1302.3	1587.8	5132.1	8214.5	9380.0	9395.9
47.5°	1014.9	981.2	983.2	1024.8	1098.2	1332.1	1433.2	5227.2	9247.2	10620.9	10345.4
50°	937.6	911.8	933.6	886.1	1048.6	1294.4	1300.4	5207.4	10400.9	11810.3	11257.2
52.5°	852.4	846.4	856.3	741.4	969.3	1141.8	1175.5	4943.7	10942.0	12623.0	12307.8
55°	765.2	763.2	683.9	592.7	810.7	911.8	1007.0	4125.1	10924.2	13055.1	13437.7
57.5°	662.1	646.2	519.4	483.7	630.4	634.3	917.8	2701.8	9681.3	12020.4	12813.3
60°	501.5	489.6	380.6	392.5	440.1	406.4	731.5	1346.0	7235.2	9364.2	10258.2
62.5°	346.9	331.0	283.5	303.3	283.5	231.9	448.0	666.0	4382.8	5913.1	6723.8
65°	253.7	235.9	194.3	166.5	132.8	132.8	170.5	255.7	1696.8	2513.5	3030.9
67.5°	156.6	148.7	115.0	83.3	81.3	87.2	89.2	126.9	273.6	436.1	533.2
70°	101.1	93.2	77.3	53.5	49.6	51.5	53.5	59.5	69.4	75.3	91.2
72.5°	69.4	65.4	55.5	29.7	23.8	25.8	27.8	27.8	33.7	31.7	37.7
75°	49.6	45.6	39.6	13.9	7.9	9.9	11.9	9.9	11.9	7.9	9.9
77.5°	13.9	13.9	9.9	2.0	0.0	2.0	4.0	4.0	2.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	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



REPORT NUMBER: P640514

CATALOG NUMBER: GWS-SA5E-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4	2519.4
2.5°	2856.4	2902.0	2919.9	2894.1	2915.9	2880.2	2866.3	2812.8	2808.9	2798.9
5°	3241.0	3344.1	3405.5	3443.2	3399.6	3352.0	3280.6	3157.7	3120.1	3096.3
7.5°	3619.6	3780.2	3885.2	3934.8	3922.9	3825.8	3696.9	3490.8	3417.4	3381.7
10°	3948.7	4144.9	4271.8	4333.2	4307.4	4222.2	4037.9	3780.2	3683.0	3661.2
12.5°	4178.6	4359.0	4446.2	4499.7	4501.7	4468.0	4293.6	4033.9	3918.9	3891.2
15°	4323.3	4400.6	4402.6	4434.3	4489.8	4565.1	4483.9	4253.9	4131.0	4089.4
17.5°	4414.5	4329.2	4242.0	4250.0	4341.1	4541.3	4624.6	4448.2	4317.4	4271.8
20°	4479.9	4210.3	4047.8	4049.7	4142.9	4446.2	4721.7	4636.5	4501.7	4460.1
22.5°	4521.5	4105.2	3873.3	3867.4	3966.5	4333.2	4810.9	4860.5	4727.7	4680.1
25°	4606.8	4055.7	3768.3	3802.0	3889.2	4297.5	4931.9	5157.8	5034.9	4971.5
27.5°	4759.4	4105.2	3758.4	3835.7	3934.8	4402.6	5142.0	5554.3	5427.4	5356.1
30°	5023.0	4291.6	3911.0	4018.0	4137.0	4678.1	5494.8	6107.3	5925.0	5857.6
32.5°	5447.2	4678.1	4382.8	4612.7	4727.7	5130.1	6024.1	6727.8	6579.1	6444.3
35°	6032.0	5560.2	5526.5	6061.7	6034.0	5986.4	6674.3	7489.0	7265.0	7134.1
37.5°	6836.8	6979.5	7229.3	7760.5	7742.7	7379.9	7528.6	8208.5	8093.5	7925.1
40°	7841.8	8145.1	8569.3	9330.5	9092.6	8636.7	8577.2	8945.9	8852.8	8654.5
42.5°	8434.5	8957.8	9766.6	10450.4	10260.2	9463.3	9395.9	9931.1	9726.9	9510.9
45°	8710.0	9619.9	11205.7	12131.4	11554.6	10012.4	9986.6	11215.6	11100.6	10811.2
47.5°	8836.9	10287.9	12890.6	14292.1	13213.7	10494.1	10400.9	13078.9	12928.3	12587.3
50°	8977.6	11209.7	14920.4	16795.6	15217.8	11039.2	11106.6	14815.4	14751.9	14349.5
52.5°	9286.9	12184.9	17420.1	19658.0	17648.0	11893.5	12317.7	16452.7	16024.5	15560.7
55°	9750.7	13247.4	20020.8	22581.8	20127.8	13041.3	13628.0	17322.9	16121.7	15608.3
57.5°	9237.3	13513.0	21561.0	24623.6	21228.0	13045.2	12519.9	15814.4	14179.1	13681.5
60°	7330.4	12571.5	20968.3	24181.5	20290.4	11584.3	9586.2	12347.5	10741.8	10408.8
62.5°	4955.6	10543.6	18458.8	20450.9	17366.5	9112.4	6230.2	8030.1	6650.5	6374.9
65°	2715.7	7865.6	14914.5	15471.5	13592.3	6365.0	3205.3	3484.8	2654.2	2531.3
67.5°	749.3	5475.0	10973.8	10264.1	9536.6	4144.9	828.6	622.4	444.0	440.1
70°	188.3	3621.6	6575.1	6777.3	5847.7	2654.2	158.6	75.3	59.5	57.5
72.5°	79.3	1558.1	3120.1	3585.9	2993.2	1229.0	57.5	21.8	17.8	13.9
75°	9.9	124.9	265.6	402.4	275.5	132.8	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)