

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: P640019

Luminaire Tested: GWS-SA5D-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640019
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-SA5D-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: 11865.5 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

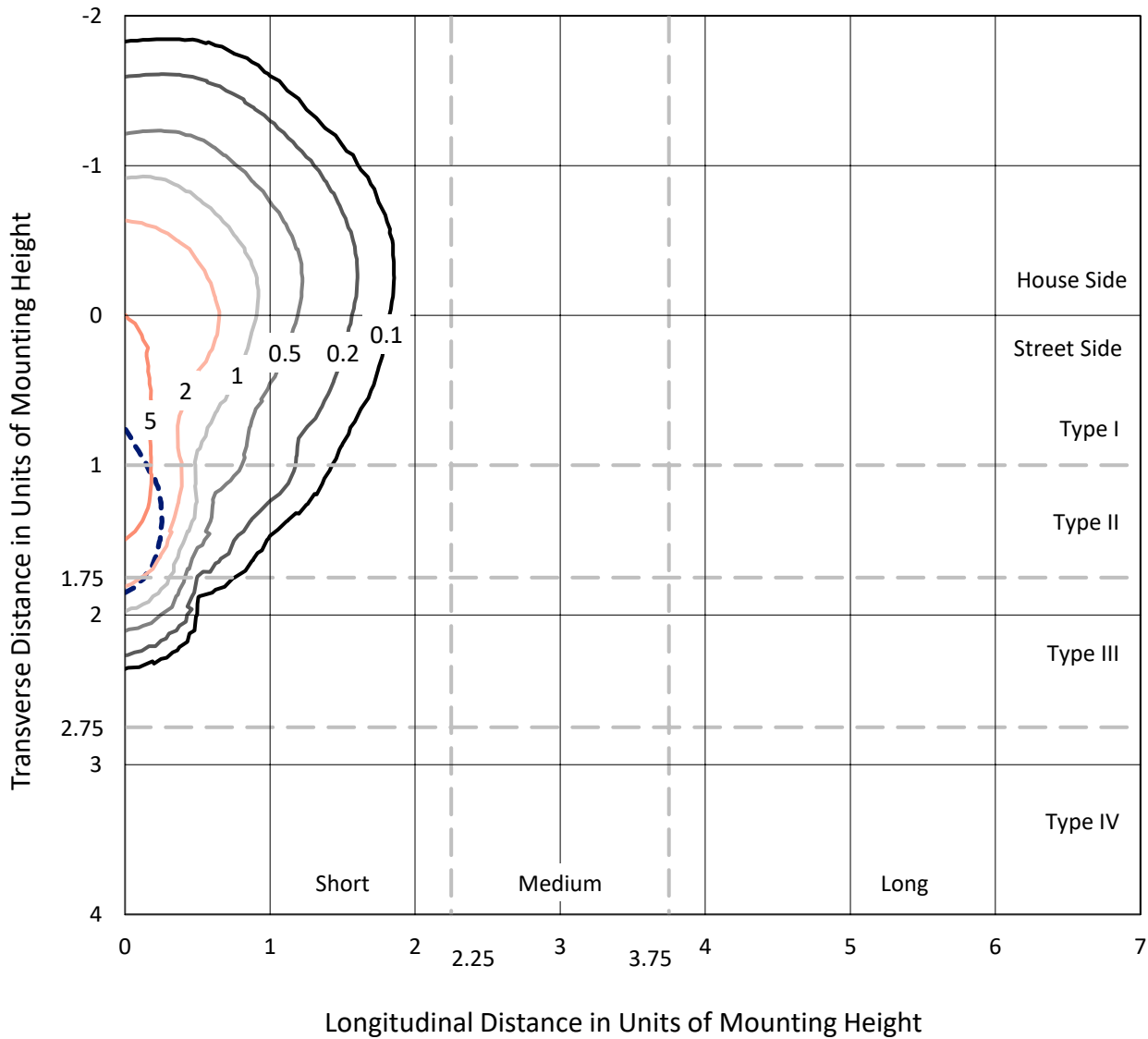
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

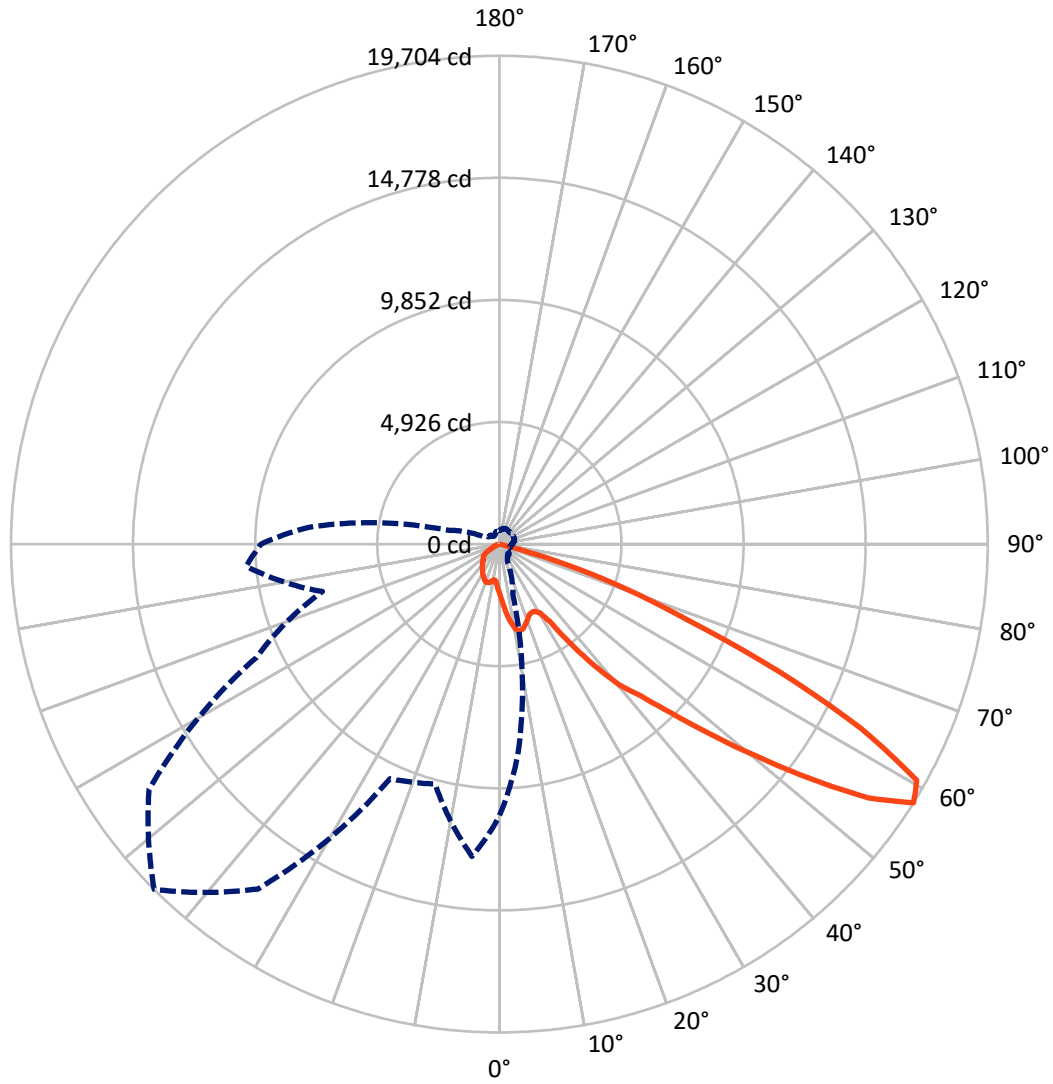
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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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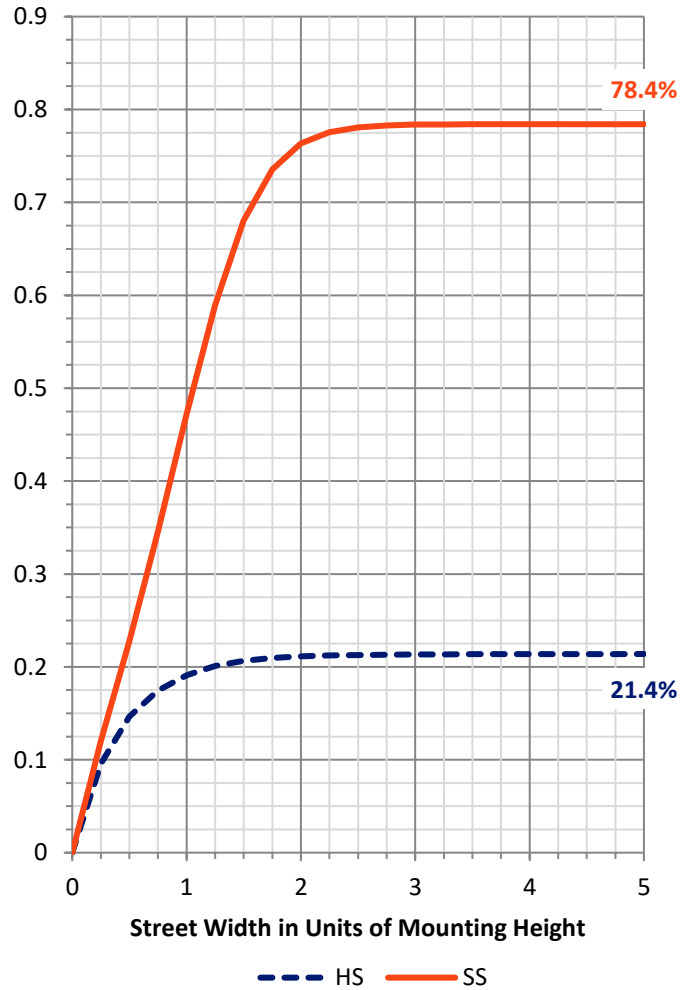
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.2	0.0	2556.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9309.3	0.0	9309.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	11865.5	0.0	11865.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.7
10°-20°	655.7	5.5
20°-30°	1064.1	9.0
30°-40°	1633.2	13.8
40°-50°	2608.3	22.0
50°-60°	3652.1	30.8
60°-70°	1872.5	15.8
70°-80°	180.3	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°	11865.5	100.0
0°-180°	11865.5	100.0

Coefficient of Utilization



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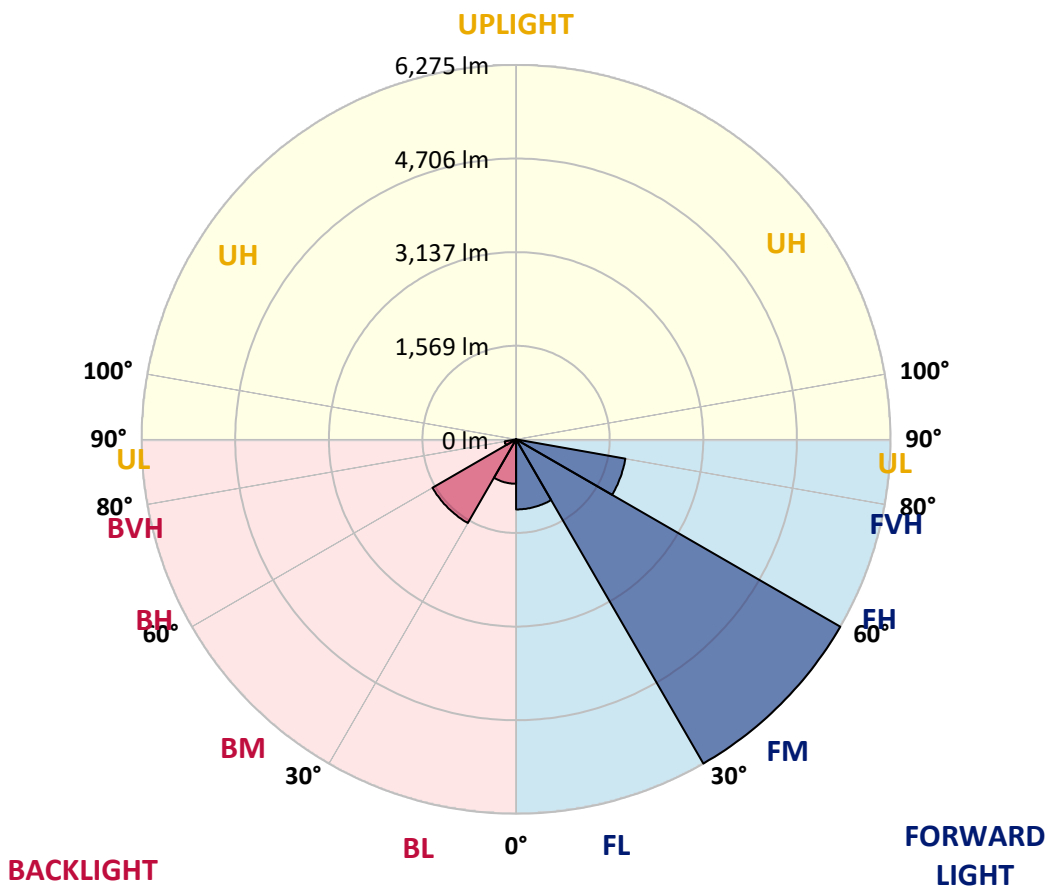
CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.8	9.9			
FM (30°-60°)	6274.8	52.9			
FH (60°-80°)	1859.8	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	744.3	6.3	B2/1000		
BM (30°-60°)	1618.8	13.6	B2/2500		
BH (60°-80°)	193.1	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°	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1
2.5°	2239.8	2235.0	2219.2	2165.2	2131.9	2079.6	2041.5	1992.3	1938.4	1905.1	1871.8
5°	2477.7	2465.0	2422.2	2298.5	2203.3	2100.2	2017.7	1927.3	1830.5	1767.1	1708.4
7.5°	2706.1	2687.1	2630.0	2420.6	2276.3	2128.7	2011.4	1879.7	1743.3	1648.1	1575.1
10°	2929.8	2887.0	2796.6	2539.6	2344.5	2166.8	2028.8	1878.1	1717.9	1597.4	1516.5
12.5°	3113.8	3082.1	2958.4	2652.2	2401.6	2174.7	2005.0	1865.4	1757.6	1676.7	1602.1
15°	3272.4	3237.5	3120.2	2753.7	2450.8	2143.0	1905.1	1782.9	1800.4	1832.1	1768.7
17.5°	3418.4	3381.9	3255.0	2837.8	2469.8	2065.3	1765.5	1706.8	1803.6	1922.5	1898.7
20°	3569.1	3527.8	3372.4	2906.0	2463.4	1943.2	1624.3	1641.8	1778.2	1914.6	1927.3
22.5°	3745.1	3702.3	3521.5	2993.3	2458.7	1797.2	1502.2	1584.7	1730.6	1846.4	1868.6
25°	3978.3	3927.6	3729.3	3121.7	2471.4	1664.0	1414.9	1529.1	1649.7	1754.4	1767.1
27.5°	4286.0	4221.0	3968.8	3280.4	2498.3	1559.3	1376.9	1453.0	1546.6	1640.2	1651.3
30°	4687.4	4604.9	4243.2	3418.4	2485.7	1486.3	1351.5	1376.9	1432.4	1508.5	1510.1
32.5°	5156.9	5044.3	4551.0	3537.3	2376.2	1432.4	1316.6	1299.1	1311.8	1370.5	1381.6
35°	5708.9	5563.0	4890.4	3650.0	2176.3	1327.7	1253.1	1194.4	1189.7	1218.2	1245.2
37.5°	6341.8	6167.3	5318.7	3794.3	1940.0	1218.2	1159.5	1100.9	1075.5	1089.8	1131.0
40°	6925.6	6732.0	5766.0	3968.8	1698.9	1119.9	1050.1	989.8	959.7	964.4	1015.2
42.5°	7610.8	7411.0	6313.3	4197.2	1499.0	1053.3	935.9	874.0	834.4	856.6	915.3
45°	8651.4	8424.6	7111.2	4395.5	1340.4	1037.4	836.0	748.7	729.7	767.7	837.5
47.5°	10072.7	9795.1	8207.3	4516.1	1205.6	1051.7	766.2	647.2	651.9	694.8	764.6
50°	11482.9	11183.1	9474.7	4357.4	1094.5	1023.1	731.3	567.9	598.0	636.1	699.5
52.5°	12452.1	12061.8	10091.7	3899.0	993.0	915.3	728.1	493.3	550.4	563.1	617.1
55°	12490.1	12009.5	9776.1	3074.2	855.0	772.5	694.8	431.5	498.1	502.8	548.8
57.5°	10948.3	10513.7	8543.5	2111.3	759.8	566.3	553.6	377.5	409.3	448.9	477.5
60°	8329.4	7959.8	6389.4	967.6	577.4	360.1	379.1	325.2	306.1	364.8	393.4
62.5°	5101.4	4865.0	3832.4	428.3	368.0	191.9	230.0	258.6	230.0	252.2	276.0
65°	2025.6	1920.9	1454.6	182.4	150.7	96.8	104.7	150.7	161.8	177.7	199.9
67.5°	352.1	333.1	244.3	80.9	61.9	58.7	50.8	69.8	98.3	109.5	126.9
70°	46.0	44.4	39.7	33.3	31.7	28.6	22.2	44.4	66.6	69.8	80.9
72.5°	11.1	9.5	9.5	7.9	9.5	3.2	3.2	23.8	47.6	49.2	57.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	30.1	33.3	39.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1
2.5°	1844.8	1813.1	1802.0	1786.1	1765.5	1771.8	1743.3	1733.8	1748.0	1767.1	1762.3
5°	1676.7	1641.8	1618.0	1581.5	1575.1	1560.9	1551.4	1538.7	1554.5	1576.7	1581.5
7.5°	1543.4	1513.3	1489.5	1478.4	1470.5	1464.1	1445.1	1435.6	1435.6	1445.1	1453.0
10°	1486.3	1464.1	1459.4	1462.5	1475.2	1473.6	1456.2	1443.5	1427.6	1419.7	1429.2
12.5°	1565.6	1529.1	1522.8	1524.4	1540.2	1538.7	1519.6	1503.8	1500.6	1503.8	1533.9
15°	1700.5	1644.9	1603.7	1595.8	1603.7	1600.5	1586.3	1576.7	1581.5	1627.5	1678.3
17.5°	1821.0	1735.4	1660.8	1632.3	1630.7	1625.9	1611.6	1608.5	1632.3	1717.9	1792.5
20°	1855.9	1771.8	1665.6	1629.1	1621.1	1616.4	1600.5	1605.3	1635.4	1738.5	1802.0
22.5°	1809.9	1729.0	1618.0	1581.5	1575.1	1573.6	1557.7	1564.0	1589.4	1679.8	1732.2
25°	1722.7	1654.5	1538.7	1506.9	1506.9	1503.8	1489.5	1492.7	1508.5	1587.8	1638.6
27.5°	1616.4	1551.4	1454.6	1422.9	1427.6	1432.4	1414.9	1410.2	1422.9	1497.4	1527.6
30°	1494.2	1448.2	1372.1	1343.6	1342.0	1361.0	1337.2	1330.9	1348.3	1407.0	1413.3
32.5°	1375.3	1353.1	1299.1	1276.9	1278.5	1281.7	1269.0	1269.0	1284.9	1316.6	1315.0
35°	1259.5	1245.2	1235.7	1219.8	1218.2	1211.9	1211.9	1215.1	1232.5	1243.6	1223.0
37.5°	1148.4	1162.7	1173.8	1158.0	1145.3	1145.3	1145.3	1159.5	1175.4	1170.7	1135.8
40°	1050.1	1080.2	1115.1	1097.7	1067.5	1066.0	1072.3	1096.1	1119.9	1091.3	1059.6
42.5°	966.0	1004.1	1053.3	1043.8	1010.4	1005.7	1010.4	1040.6	1059.6	1023.1	988.2
45°	883.5	931.1	989.8	989.8	953.3	948.6	950.2	989.8	1000.9	958.1	913.7
47.5°	813.7	866.1	928.0	928.0	897.8	888.3	896.2	937.5	945.4	885.1	843.9
50°	747.1	804.2	872.4	867.7	847.1	839.1	853.4	897.8	888.3	821.7	778.8
52.5°	663.1	723.3	816.9	821.7	810.6	812.2	829.6	858.2	831.2	750.3	713.8
55°	586.9	648.8	742.4	767.7	767.7	766.2	774.1	796.3	774.1	677.3	632.9
57.5°	504.4	556.8	634.5	640.8	645.6	628.2	639.3	669.4	658.3	575.8	550.4
60°	414.0	458.4	502.8	507.6	487.0	450.5	471.1	506.0	513.9	452.1	423.5
62.5°	293.5	336.3	388.6	388.6	368.0	331.5	358.5	388.6	377.5	314.1	296.6
65°	218.9	258.6	298.2	315.7	298.2	272.8	293.5	315.7	298.2	245.9	220.5
67.5°	141.2	168.1	191.9	206.2	209.4	206.2	215.7	209.4	188.8	153.9	139.6
70°	85.7	99.9	112.6	125.3	134.8	139.6	144.3	130.1	109.5	90.4	85.7
72.5°	61.9	74.6	85.7	95.2	106.3	109.5	109.5	99.9	80.9	63.5	58.7
75°	42.8	53.9	63.5	69.8	79.3	82.5	82.5	74.6	60.3	46.0	41.2
77.5°	1.6	11.1	11.1	9.5	12.7	15.9	15.9	19.0	17.4	12.7	11.1
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-SA5D-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1
2.5°	1771.8	1828.9	1844.8	1903.5	1955.8	2008.2	2071.6	2109.7	2166.8	2206.5	2228.7
5°	1597.4	1644.9	1702.0	1789.3	1879.7	1979.6	2100.2	2204.9	2336.5	2433.3	2465.0
7.5°	1470.5	1532.3	1598.9	1708.4	1832.1	1965.4	2135.1	2306.4	2507.9	2639.5	2723.6
10°	1446.7	1510.1	1598.9	1706.8	1836.9	1989.2	2197.0	2419.0	2671.2	2831.5	2926.6
12.5°	1560.9	1629.1	1667.1	1716.3	1814.7	1984.4	2250.9	2533.2	2829.9	3004.4	3105.9
15°	1729.0	1789.3	1727.4	1665.6	1729.0	1933.6	2281.0	2628.4	2969.5	3170.9	3275.6
17.5°	1844.8	1849.6	1714.7	1583.1	1600.5	1841.6	2292.1	2723.6	3118.6	3329.5	3439.0
20°	1833.7	1795.6	1659.2	1513.3	1459.4	1722.7	2279.4	2807.7	3269.3	3489.8	3597.6
22.5°	1748.0	1703.6	1587.8	1445.1	1340.4	1581.5	2257.2	2883.8	3407.3	3657.9	3759.4
25°	1644.9	1597.4	1502.2	1376.9	1264.2	1445.1	2239.8	2988.5	3581.8	3876.8	3956.1
27.5°	1524.4	1483.1	1402.2	1311.8	1232.5	1342.0	2235.0	3126.5	3792.7	4143.3	4198.8
30°	1407.0	1368.9	1305.5	1253.1	1219.8	1281.7	2219.2	3274.0	4044.9	4449.4	4509.7
32.5°	1294.4	1256.3	1216.7	1208.7	1210.3	1259.5	2165.2	3420.0	4344.7	4893.6	4938.0
35°	1197.6	1153.2	1137.3	1156.4	1191.3	1221.4	2013.0	3540.5	4666.7	5377.4	5413.9
37.5°	1105.6	1061.2	1059.6	1105.6	1143.7	1162.7	1833.7	3659.5	5101.4	5869.1	5915.1
40°	1021.5	977.1	993.0	1048.5	1078.7	1088.2	1616.4	3840.3	5561.4	6387.8	6362.5
42.5°	950.2	904.2	913.7	985.1	1012.0	1037.4	1416.5	3991.0	6004.0	6879.6	6871.6
45°	880.4	845.5	839.1	916.9	940.6	1042.2	1270.6	4106.8	6573.4	7506.1	7518.8
47.5°	812.2	785.2	786.8	820.1	878.8	1066.0	1146.9	4182.9	7399.9	8499.1	8278.6
50°	750.3	729.7	747.1	709.1	839.1	1035.8	1040.6	4167.1	8323.1	9450.9	9008.3
52.5°	682.1	677.3	685.3	593.3	775.7	913.7	940.6	3956.1	8756.1	10101.2	9849.0
55°	612.3	610.7	547.3	474.3	648.8	729.7	805.8	3301.0	8741.8	10447.0	10753.2
57.5°	529.8	517.1	415.6	387.0	504.4	507.6	734.4	2162.1	7747.2	9619.0	10253.5
60°	401.3	391.8	304.6	314.1	352.1	325.2	585.3	1077.1	5789.8	7493.4	8208.8
62.5°	277.6	264.9	226.8	242.7	226.8	185.6	358.5	533.0	3507.2	4731.8	5380.6
65°	203.0	188.8	155.5	133.2	106.3	106.3	136.4	204.6	1357.8	2011.4	2425.4
67.5°	125.3	119.0	92.0	66.6	65.0	69.8	71.4	101.5	218.9	349.0	426.7
70°	80.9	74.6	61.9	42.8	39.7	41.2	42.8	47.6	55.5	60.3	73.0
72.5°	55.5	52.3	44.4	23.8	19.0	20.6	22.2	22.2	27.0	25.4	30.1
75°	39.7	36.5	31.7	11.1	6.3	7.9	9.5	7.9	9.5	6.3	7.9
77.5°	11.1	11.1	7.9	1.6	0.0	1.6	3.2	3.2	1.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	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: P640019

CATALOG NUMBER: GWS-SA5D-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1	2016.1
2.5°	2285.8	2322.3	2336.5	2315.9	2333.4	2304.8	2293.7	2250.9	2247.7	2239.8
5°	2593.5	2676.0	2725.2	2755.3	2720.4	2682.3	2625.2	2526.9	2496.8	2477.7
7.5°	2896.5	3025.0	3109.1	3148.7	3139.2	3061.5	2958.4	2793.4	2734.7	2706.1
10°	3159.8	3316.8	3418.4	3467.5	3446.9	3378.7	3231.2	3025.0	2947.3	2929.8
12.5°	3343.8	3488.2	3558.0	3600.8	3602.4	3575.4	3435.8	3228.0	3136.0	3113.8
15°	3459.6	3521.5	3523.1	3548.4	3592.9	3653.1	3588.1	3404.1	3305.7	3272.4
17.5°	3532.6	3464.4	3394.6	3400.9	3473.9	3634.1	3700.7	3559.5	3454.9	3418.4
20°	3584.9	3369.2	3239.1	3240.7	3315.3	3558.0	3778.4	3710.2	3602.4	3569.1
22.5°	3618.2	3285.1	3099.5	3094.8	3174.1	3467.5	3849.8	3889.5	3783.2	3745.1
25°	3686.4	3245.5	3015.5	3042.4	3112.2	3439.0	3946.6	4127.4	4029.1	3978.3
27.5°	3808.6	3285.1	3007.5	3069.4	3148.7	3523.1	4114.7	4444.7	4343.2	4286.0
30°	4019.6	3434.2	3129.7	3215.3	3310.5	3743.6	4397.1	4887.2	4741.3	4687.4
32.5°	4359.0	3743.6	3507.2	3691.2	3783.2	4105.2	4820.6	5383.7	5264.8	5156.9
35°	4827.0	4449.4	4422.5	4850.8	4828.5	4790.5	5340.9	5992.9	5813.6	5708.9
37.5°	5471.0	5585.2	5785.1	6210.2	6195.9	5905.6	6024.6	6568.7	6476.7	6341.8
40°	6275.2	6517.9	6857.4	7466.5	7276.1	6911.3	6863.7	7158.7	7084.2	6925.6
42.5°	6749.5	7168.3	7815.5	8362.7	8210.4	7572.8	7518.8	7947.1	7783.7	7610.8
45°	6970.0	7698.1	8967.1	9707.9	9246.3	8012.2	7991.5	8975.0	8883.0	8651.4
47.5°	7071.5	8232.6	10315.4	11436.9	10573.9	8397.6	8323.1	10466.1	10345.5	10072.7
50°	7184.1	8970.2	11939.7	13440.3	12177.6	8833.8	8887.8	11855.6	11804.9	11482.9
52.5°	7431.6	9750.7	13940.0	15730.8	14122.4	9517.5	9857.0	13165.9	12823.2	12452.1
55°	7802.8	10600.9	16021.1	18070.6	16106.8	10435.9	10905.5	13862.2	12901.0	12490.1
57.5°	7391.9	10813.5	17253.6	19704.4	16987.2	10439.1	10018.8	12655.1	11346.4	10948.3
60°	5866.0	10060.0	16779.4	19350.7	16236.9	9270.0	7671.1	9880.8	8595.9	8329.4
62.5°	3965.6	8437.3	14771.2	16365.3	13897.1	7292.0	4985.6	6425.9	5321.9	5101.4
65°	2173.2	6294.2	11934.9	12380.7	10876.9	5093.5	2565.0	2788.6	2124.0	2025.6
67.5°	599.6	4381.2	8781.5	8213.6	7631.5	3316.8	663.1	498.1	355.3	352.1
70°	150.7	2898.1	5261.6	5423.4	4679.4	2124.0	126.9	60.3	47.6	46.0
72.5°	63.5	1246.8	2496.8	2869.5	2395.2	983.5	46.0	17.4	14.3	11.1
75°	7.9	99.9	212.6	322.0	220.5	106.3	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)