

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: P632705

Luminaire Tested: GWS-SA2D-730-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8276.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.1
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

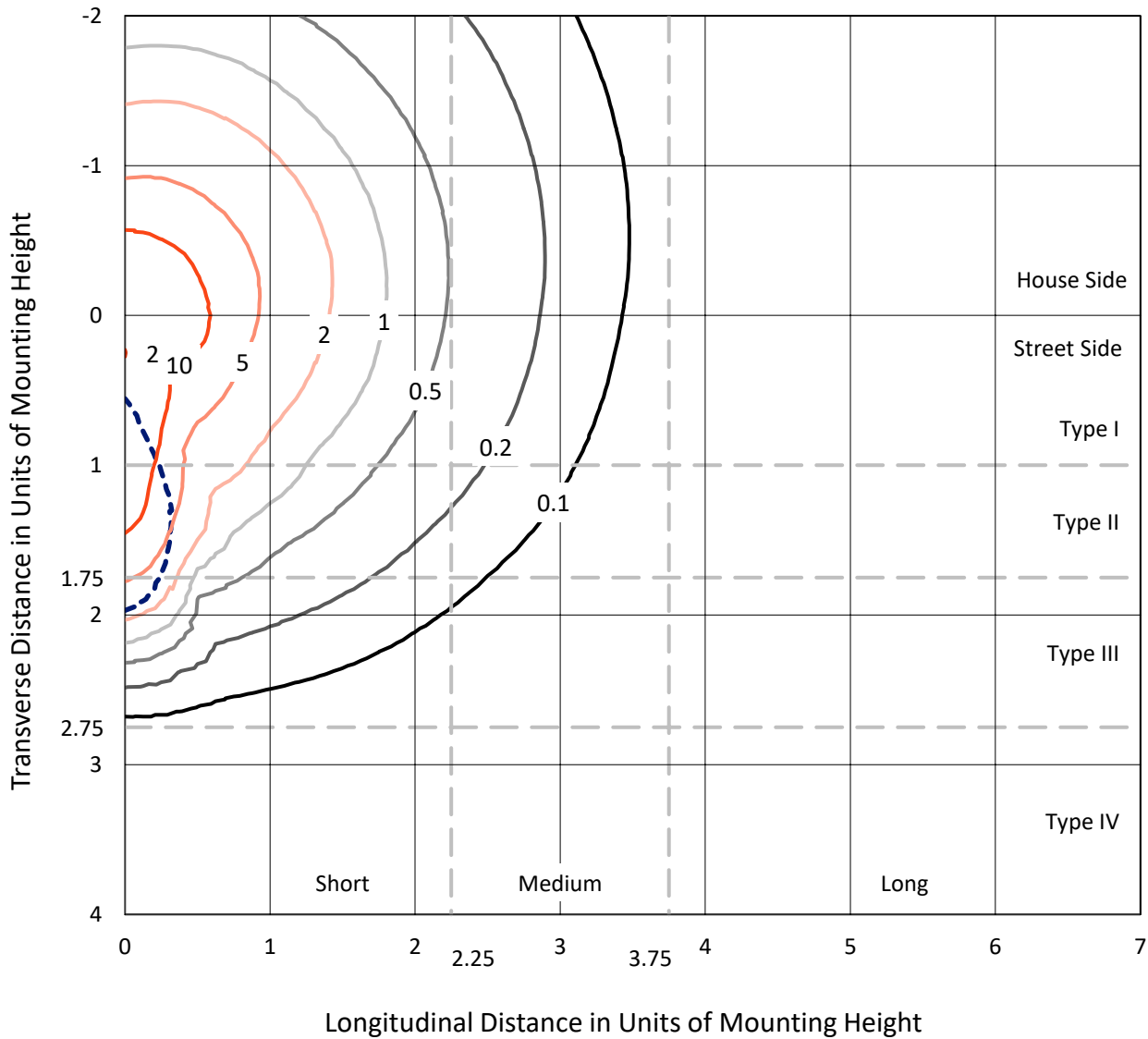


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Iso-Footcandle Lines of Horizontal Illumination

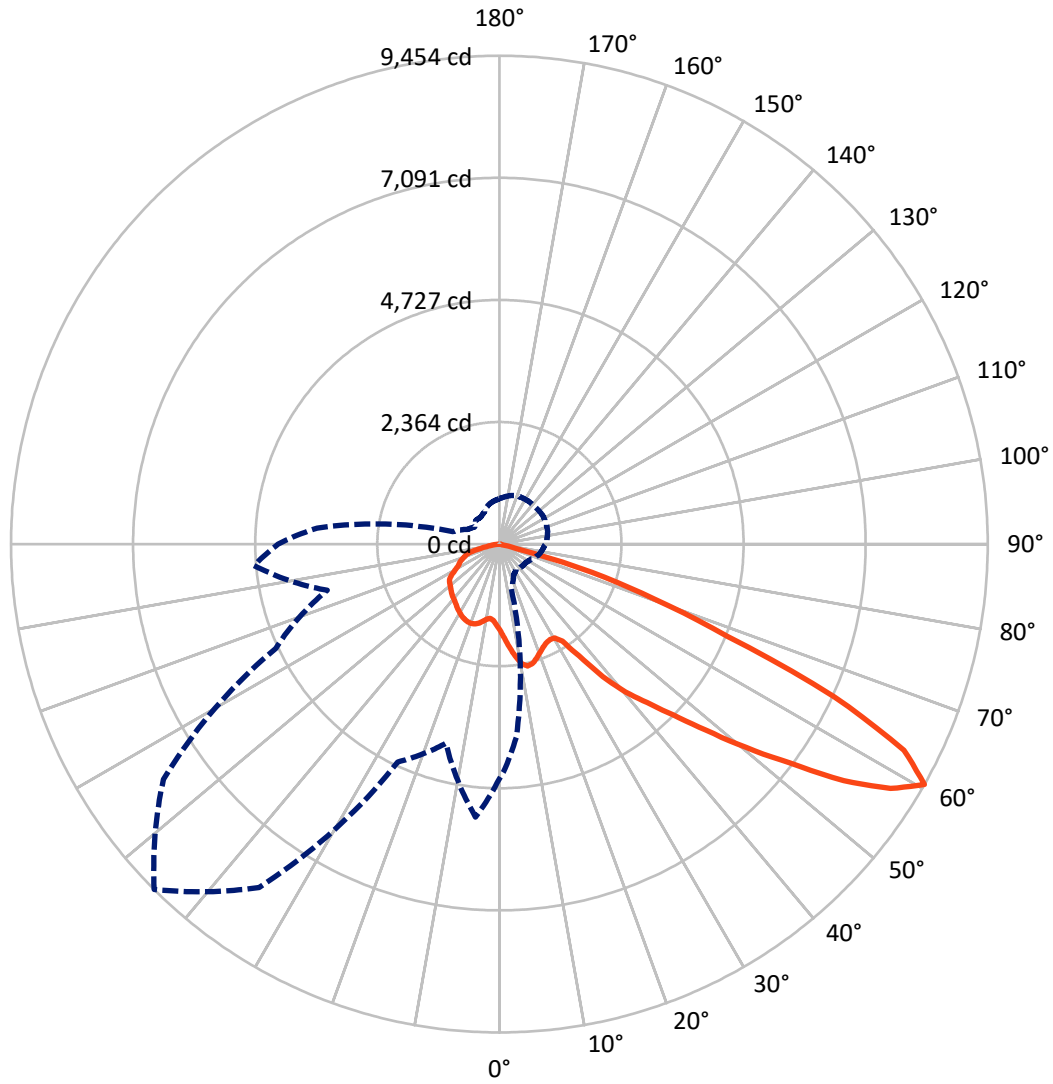
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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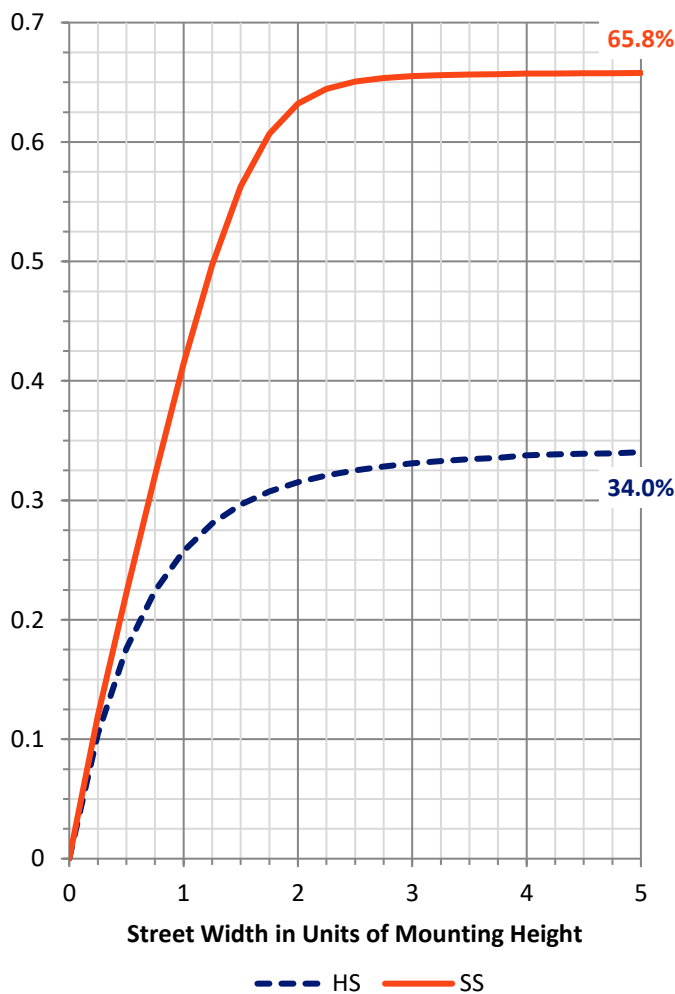
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2831.2	0.0	2831.2
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	5444.9	0.0	5444.9
	% Fixture	65.8	0.0	65.8
Total	Lumens	8276.1	0.0	8276.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	2.0
10°-20°	523.1	6.3
20°-30°	851.9	10.3
30°-40°	1196.7	14.5
40°-50°	1637.6	19.8
50°-60°	2100.9	25.4
60°-70°	1414.7	17.1
70°-80°	353.7	4.3
80°-90°	34.5	0.4
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°	8276.1	100.0
0°-180°	8276.1	100.0

Coefficient of Utilization



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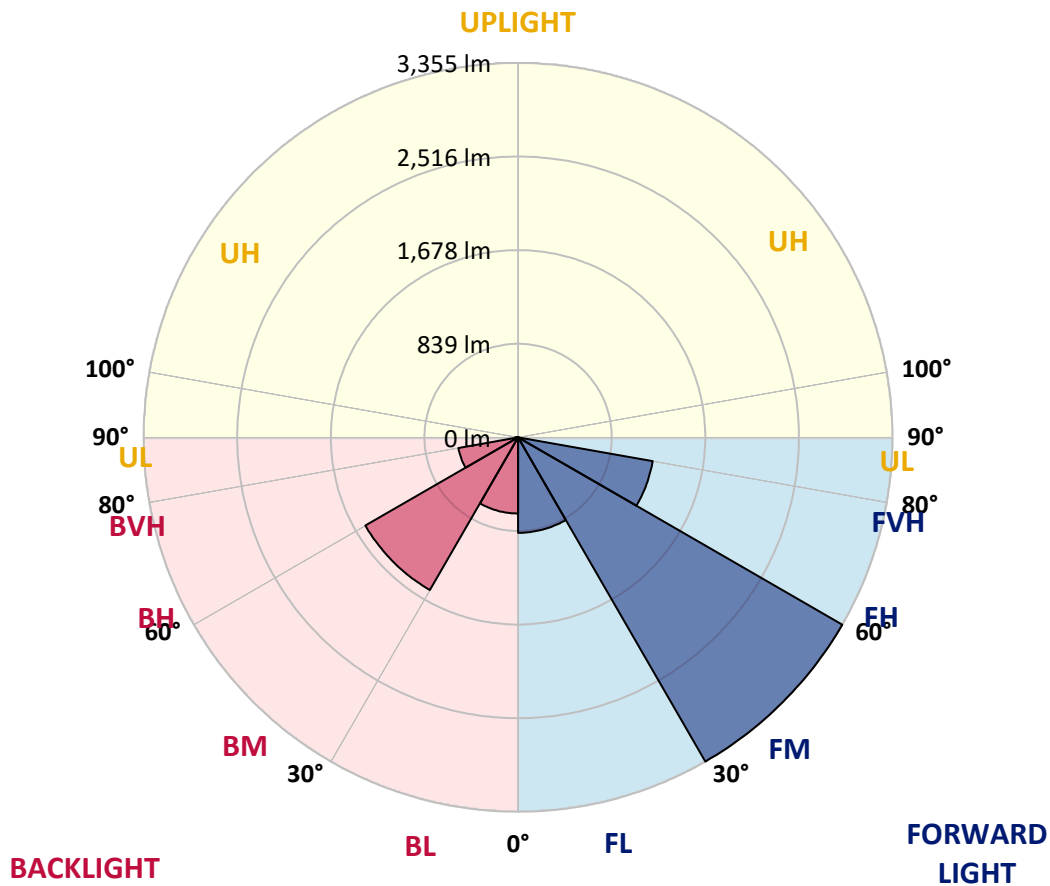
CATALOG NUMBER: GWS-SA2D-730-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.6	10.3			
FM (30°-60°)	3355.2	40.5			
FH (60°-80°)	1225.2	14.8			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	682.5	8.2	B2/1000		
BM (30°-60°)	1580.0	19.1	B2/2500		
BH (60°-80°)	543.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	25.5	0.3			G1/100
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°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1766.0	1762.2	1758.4	1728.7	1721.0	1699.7	1684.4	1665.4	1638.0	1622.7	1609.8
5°	1876.5	1870.4	1849.8	1788.9	1749.2	1705.8	1670.0	1630.3	1588.4	1561.0	1539.6
7.5°	1980.9	1979.4	1944.4	1843.7	1779.7	1717.2	1668.4	1610.5	1550.3	1509.1	1481.7
10°	2077.7	2066.3	2024.4	1893.3	1809.4	1737.8	1685.2	1621.2	1551.1	1495.4	1458.8
12.5°	2163.1	2148.6	2090.7	1939.0	1835.4	1746.9	1689.8	1637.2	1590.7	1544.2	1502.3
15°	2233.2	2215.7	2157.0	1981.7	1858.2	1741.6	1661.6	1620.4	1636.4	1657.0	1610.5
17.5°	2298.8	2280.5	2208.8	2013.0	1865.1	1708.8	1592.2	1574.7	1655.5	1749.2	1727.9
20°	2353.7	2333.1	2250.0	2028.2	1852.9	1646.3	1502.3	1532.8	1639.5	1751.5	1785.8
22.5°	2413.1	2396.3	2296.5	2050.3	1837.6	1560.2	1426.8	1501.5	1612.0	1710.4	1762.2
25°	2508.4	2487.8	2368.9	2089.2	1830.0	1479.4	1372.7	1471.0	1573.9	1663.1	1703.5
27.5°	2646.3	2608.2	2468.0	2157.0	1838.4	1403.2	1338.4	1433.7	1529.7	1605.9	1638.7
30°	2796.5	2750.8	2577.7	2227.1	1850.6	1356.7	1320.1	1391.0	1461.9	1538.1	1573.9
32.5°	2974.1	2933.7	2695.1	2279.7	1824.7	1335.4	1306.4	1344.5	1400.9	1461.9	1491.6
35°	3186.0	3113.6	2823.2	2322.4	1740.8	1304.1	1294.2	1293.4	1323.2	1382.6	1416.2
37.5°	3413.9	3336.1	2980.9	2368.1	1610.5	1254.6	1265.2	1233.2	1260.7	1307.9	1346.0
40°	3600.6	3519.0	3140.2	2430.6	1447.4	1176.8	1201.2	1166.9	1183.7	1232.5	1275.1
42.5°	3783.5	3696.6	3288.9	2501.5	1289.6	1100.6	1112.8	1099.8	1105.2	1156.2	1215.7
45°	4023.6	3926.1	3471.8	2551.8	1147.9	1040.4	1029.0	1006.9	1035.1	1101.4	1164.6
47.5°	4424.5	4307.9	3771.3	2584.6	1045.0	1006.1	953.5	940.5	975.6	1049.5	1115.1
50°	4893.3	4792.7	4250.0	2583.1	968.0	977.1	880.3	868.9	926.8	1001.5	1070.9
52.5°	5277.4	5175.3	4659.3	2506.9	904.7	915.4	837.6	805.6	884.9	954.3	1023.6
55°	5587.6	5472.5	4847.5	2188.3	824.7	817.1	791.2	732.5	832.3	907.0	971.8
57.5°	5420.7	5283.5	4619.6	1663.9	742.4	694.4	711.1	667.7	760.7	854.4	916.9
60°	4545.0	4421.5	3753.0	885.7	653.2	580.0	615.1	621.9	682.2	791.2	855.2
62.5°	3121.9	3032.0	2543.4	537.3	515.2	465.7	520.6	570.1	615.1	707.3	763.0
65°	1527.4	1500.8	1272.1	344.5	360.5	376.5	431.4	491.6	557.9	638.7	697.4
67.5°	420.7	423.8	385.7	269.1	284.3	328.5	371.9	420.0	486.3	561.0	620.4
70°	185.2	188.3	194.4	207.3	236.3	276.7	321.6	371.2	432.2	494.7	551.8
72.5°	128.8	131.9	141.0	157.8	183.7	221.8	264.5	311.7	375.0	427.6	474.8
75°	79.3	81.6	89.9	104.4	122.0	150.9	192.8	236.3	291.9	339.9	381.9
77.5°	41.9	40.4	45.7	55.6	70.9	86.1	114.3	141.8	181.4	220.3	255.3
80°	22.9	22.1	25.2	30.5	35.1	47.3	66.3	84.6	107.5	129.6	148.6
82.5°	9.9	9.1	9.9	13.0	16.0	22.9	33.5	46.5	59.5	74.7	86.9
85°	0.0	0.0	0.0	0.8	3.8	6.1	11.4	16.8	24.4	33.5	41.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.9
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°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1602.1	1583.1	1581.5	1566.3	1567.8	1568.6	1553.3	1547.3	1552.6	1558.7	1555.6
5°	1532.0	1512.2	1503.8	1489.3	1487.8	1480.9	1474.8	1467.2	1472.6	1477.9	1480.9
7.5°	1471.0	1458.1	1452.7	1448.9	1450.5	1447.4	1435.2	1428.3	1427.6	1429.9	1432.9
10°	1451.2	1440.5	1447.4	1458.1	1465.7	1471.0	1458.1	1446.6	1436.0	1431.4	1431.4
12.5°	1493.9	1480.2	1493.9	1505.3	1520.6	1524.4	1509.9	1497.7	1493.9	1498.5	1507.6
15°	1588.4	1556.4	1555.6	1562.5	1574.7	1580.8	1567.1	1561.0	1561.0	1589.9	1612.8
17.5°	1682.9	1630.3	1608.2	1604.4	1612.0	1614.3	1602.9	1597.6	1611.3	1667.7	1710.4
20°	1749.2	1685.2	1637.2	1628.0	1630.3	1631.1	1621.9	1618.1	1638.0	1706.5	1742.4
22.5°	1742.4	1695.1	1636.4	1625.0	1628.8	1627.3	1618.9	1617.4	1633.4	1692.8	1709.6
25°	1695.1	1658.5	1609.0	1601.4	1607.5	1606.7	1598.3	1594.5	1601.4	1641.0	1642.5
27.5°	1641.0	1609.0	1566.3	1564.0	1573.9	1579.3	1564.8	1553.3	1551.1	1577.7	1571.6
30°	1576.2	1552.6	1518.3	1519.8	1538.1	1541.2	1523.6	1506.9	1502.3	1516.8	1508.4
32.5°	1499.2	1491.6	1473.3	1477.1	1494.7	1500.8	1482.5	1464.9	1459.6	1464.2	1446.6
35°	1433.7	1430.6	1432.2	1439.0	1454.3	1458.8	1443.6	1429.9	1422.3	1406.2	1383.4
37.5°	1365.8	1374.2	1396.3	1409.3	1417.7	1416.2	1407.8	1397.9	1385.7	1355.9	1327.7
40°	1302.6	1323.9	1363.6	1378.0	1381.1	1381.9	1375.8	1367.4	1352.1	1312.5	1280.5
42.5°	1253.8	1277.4	1330.0	1352.1	1353.7	1355.2	1349.1	1342.2	1320.9	1268.3	1237.0
45°	1202.7	1234.0	1295.7	1322.4	1320.9	1320.1	1314.8	1311.7	1286.6	1225.6	1191.3
47.5°	1159.3	1195.9	1262.2	1285.1	1284.3	1283.5	1279.7	1279.7	1254.6	1188.3	1149.4
50°	1116.6	1158.5	1227.9	1246.9	1248.5	1246.9	1245.4	1247.7	1218.0	1147.1	1109.0
52.5°	1070.1	1117.4	1189.8	1207.3	1216.5	1220.3	1220.3	1214.9	1179.9	1105.9	1064.0
55°	1019.1	1064.0	1147.9	1171.5	1179.1	1186.0	1186.0	1175.3	1142.5	1067.8	1022.9
57.5°	955.8	995.4	1061.7	1085.4	1103.7	1108.2	1108.2	1090.7	1064.0	992.4	955.8
60°	887.2	921.5	966.5	991.6	1005.3	996.2	1003.0	998.5	977.1	910.8	880.3
62.5°	795.7	830.8	880.3	906.2	912.3	903.2	912.3	911.6	882.6	823.2	786.6
65°	730.2	764.5	813.3	846.8	856.7	854.4	860.5	851.4	815.5	759.1	724.1
67.5°	652.4	689.0	745.4	782.8	803.4	805.6	814.0	795.0	758.4	696.6	652.4
70°	578.5	609.8	653.2	688.3	717.2	731.7	733.2	705.8	660.1	609.0	577.0
72.5°	500.8	532.8	585.4	623.5	660.1	676.8	676.8	643.3	593.7	537.3	503.0
75°	406.2	436.0	484.0	525.2	567.1	588.4	587.7	558.7	503.8	450.5	414.6
77.5°	275.2	297.3	327.7	359.0	365.1	381.9	390.2	353.7	323.2	294.2	262.2
80°	160.1	173.8	190.5	208.1	211.9	217.2	203.5	189.8	173.8	154.7	140.2
82.5°	93.7	102.9	111.3	125.0	127.3	128.8	116.6	110.5	97.6	86.1	77.0
85°	45.7	48.8	56.4	63.3	60.2	58.7	53.4	47.3	41.9	37.3	32.8
87.5°	9.1	9.1	13.7	13.0	10.7	9.1	5.3	6.9	1.5	1.5	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°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1565.5	1578.5	1594.5	1615.8	1640.2	1666.2	1691.3	1710.4	1729.4	1757.6	1753.0
5°	1485.5	1507.6	1532.8	1565.5	1605.2	1650.1	1700.5	1750.8	1804.9	1850.6	1870.4
7.5°	1439.0	1463.4	1493.1	1535.8	1586.9	1641.8	1712.6	1794.2	1881.9	1942.1	1979.4
10°	1439.0	1470.3	1509.1	1550.3	1595.3	1651.7	1739.3	1841.5	1954.3	2033.5	2077.0
12.5°	1522.1	1553.3	1561.7	1560.2	1585.4	1647.9	1760.7	1891.0	2025.9	2109.7	2163.1
15°	1651.7	1662.3	1599.1	1541.2	1545.0	1620.4	1770.6	1930.6	2087.6	2188.3	2246.2
17.5°	1738.6	1710.4	1597.6	1496.2	1474.8	1573.9	1770.6	1968.7	2153.2	2266.8	2320.9
20°	1745.4	1675.3	1558.7	1452.7	1397.9	1512.2	1758.4	1997.7	2216.5	2342.2	2400.1
22.5°	1685.2	1615.8	1517.5	1415.4	1334.6	1437.5	1738.6	2019.8	2270.6	2413.1	2484.7
25°	1616.6	1558.7	1475.6	1377.3	1291.2	1362.0	1720.3	2057.2	2346.0	2509.1	2581.5
27.5°	1549.5	1500.8	1425.3	1345.3	1266.8	1296.5	1708.8	2112.0	2436.0	2645.6	2708.1
30°	1484.0	1439.8	1371.2	1314.8	1253.8	1253.8	1698.9	2175.3	2554.9	2798.8	2861.3
32.5°	1417.7	1375.8	1320.1	1285.1	1246.2	1237.0	1671.5	2234.7	2677.6	2966.5	3030.5
35°	1355.9	1314.0	1271.3	1256.9	1242.4	1224.1	1603.7	2281.2	2797.2	3162.3	3217.2
37.5°	1298.0	1257.6	1225.6	1221.8	1223.3	1189.0	1496.9	2320.1	2946.6	3362.8	3391.8
40°	1247.7	1202.7	1177.6	1176.8	1184.4	1132.6	1362.0	2375.8	3117.4	3532.8	3520.6
42.5°	1202.7	1155.5	1125.0	1131.9	1127.3	1076.2	1230.2	2426.8	3266.0	3692.1	3667.7
45°	1158.5	1112.8	1070.1	1080.0	1074.7	1041.2	1118.1	2464.2	3430.6	3883.4	3886.4
47.5°	1115.8	1070.9	1028.2	1016.0	1015.2	1030.5	1032.0	2476.4	3698.9	4191.3	4121.9
50°	1076.2	1031.2	987.0	945.9	961.9	1009.1	968.0	2467.2	4100.6	4531.2	4337.6
52.5°	1035.1	992.4	943.6	869.7	911.6	958.1	910.8	2434.4	4346.0	4831.5	4715.7
55°	987.8	947.4	881.1	791.2	842.2	852.1	852.1	2117.4	4450.4	5128.8	5200.4
57.5°	924.5	871.2	766.0	693.6	739.3	701.2	789.6	1481.7	4278.2	5035.0	5313.2
60°	852.9	795.7	684.4	632.6	646.3	579.3	673.0	929.1	3545.7	4284.3	4766.0
62.5°	758.4	705.8	613.6	573.2	545.0	472.6	541.9	587.7	2430.6	3181.4	3509.9
65°	695.1	637.2	554.9	501.5	443.6	380.3	359.8	385.7	1307.2	1780.5	2002.3
67.5°	620.4	563.3	485.5	418.4	371.9	326.2	290.4	281.2	448.2	593.0	641.8
70°	549.5	494.7	429.9	367.4	320.9	275.9	240.9	215.7	207.3	205.8	202.7
72.5°	477.1	426.1	371.9	314.0	263.0	221.8	190.5	161.6	149.4	145.6	141.8
75°	391.0	350.6	296.5	234.0	192.8	154.7	130.3	111.3	100.6	96.8	92.2
77.5°	251.5	233.2	186.0	150.9	116.6	92.2	79.3	67.1	60.2	58.7	54.9
80°	134.1	125.0	102.9	86.9	69.4	56.4	49.5	42.7	38.9	37.3	35.8
82.5°	74.7	67.8	57.2	50.3	40.4	34.3	30.5	27.4	25.2	24.4	23.6
85°	33.5	29.0	22.9	21.3	19.1	17.5	16.8	15.2	14.5	13.7	13.0
87.5°	1.5	3.0	3.8	3.0	3.0	4.6	5.3	5.3	4.6	4.6	3.8
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: P632705

CATALOG NUMBER: GWS-SA2D-730-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1781.2	1804.1	1806.4	1814.0	1804.1	1801.8	1785.8	1776.7	1768.3	1766.0
5°	1920.0	1965.7	1984.0	1996.9	1984.7	1978.7	1943.6	1907.0	1886.4	1876.5
7.5°	2062.5	2131.1	2166.9	2182.9	2184.4	2157.0	2096.8	2028.2	1993.9	1980.9
10°	2189.8	2274.4	2321.6	2352.1	2341.5	2307.9	2225.6	2132.6	2089.2	2077.7
12.5°	2284.3	2365.1	2401.7	2421.5	2420.7	2402.4	2324.7	2224.1	2174.5	2163.1
15°	2345.3	2393.3	2395.6	2400.1	2413.1	2437.5	2397.1	2304.1	2249.2	2233.2
17.5°	2393.3	2374.2	2338.4	2326.2	2355.2	2423.0	2447.4	2371.9	2312.5	2298.8
20°	2423.8	2327.7	2264.5	2240.8	2274.4	2384.9	2477.9	2432.9	2371.2	2353.7
22.5°	2447.4	2284.3	2182.2	2166.2	2201.2	2343.7	2509.1	2505.3	2437.5	2413.1
25°	2484.7	2255.3	2124.2	2112.8	2145.6	2323.9	2551.1	2603.6	2543.4	2508.4
27.5°	2543.4	2252.3	2094.5	2090.7	2135.7	2341.5	2611.3	2747.7	2672.2	2646.3
30°	2625.0	2281.2	2101.4	2109.0	2163.9	2404.7	2705.0	2912.3	2836.9	2796.5
32.5°	2742.4	2359.0	2205.8	2238.6	2279.0	2506.1	2842.2	3090.7	3033.5	2974.1
35°	2897.1	2572.4	2514.5	2654.0	2615.8	2727.9	3007.6	3307.2	3237.8	3186.0
37.5°	3103.6	3009.9	3063.3	3255.3	3163.1	3147.1	3209.6	3503.8	3465.7	3413.9
40°	3393.3	3412.3	3510.7	3762.9	3629.6	3526.7	3457.3	3651.7	3664.6	3600.6
42.5°	3585.4	3673.0	3910.0	4196.6	4012.9	3766.8	3664.6	3840.7	3841.4	3783.5
45°	3657.0	3886.4	4381.8	4711.9	4404.7	3903.9	3779.0	4097.5	4089.9	4023.6
47.5°	3631.1	4066.3	4871.9	5376.5	4907.8	4001.5	3762.9	4463.4	4525.1	4424.5
50°	3577.0	4246.9	5444.3	6190.5	5525.1	4105.2	3738.6	4868.9	4971.0	4893.3
52.5°	3631.8	4448.2	6121.2	7032.0	6299.5	4270.6	3903.2	5389.5	5371.2	5277.4
55°	3805.6	4686.0	6943.6	8089.1	7150.1	4550.3	4326.2	5885.6	5699.7	5587.6
57.5°	3797.2	4855.9	7664.6	8925.3	7890.2	4779.7	4473.3	5938.2	5562.5	5420.7
60°	3446.6	4778.2	7939.0	9454.2	8113.5	4653.2	3989.3	5304.1	4693.6	4545.0
62.5°	2572.4	4240.1	7407.0	8791.9	7481.7	4019.0	3000.0	3807.2	3372.7	3121.9
65°	1645.6	3317.1	6227.1	7122.7	6166.9	3073.9	1786.6	2041.2	1599.1	1527.4
67.5°	700.5	2341.5	4840.7	4760.7	4613.6	1991.6	689.8	574.7	428.4	420.7
70°	231.7	1593.0	2984.0	3175.3	2755.3	1371.9	227.9	192.8	192.1	185.2
72.5°	151.7	855.2	1679.9	1870.4	1772.9	789.6	138.0	128.8	131.9	128.8
75°	90.7	186.0	282.8	367.4	282.8	132.6	83.1	81.6	83.1	79.3
77.5°	53.4	51.8	50.3	50.3	49.5	45.7	41.9	40.4	41.2	41.9
80°	34.3	32.8	31.2	30.5	26.7	25.2	23.6	22.1	22.1	22.9
82.5°	22.1	20.6	19.1	16.8	13.7	11.4	10.7	9.1	9.1	9.9
85°	11.4	9.1	6.9	5.3	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	2.3	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)