

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: P634024

Luminaire Tested: GWS-SA2F-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634024
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-SA2F-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910.3 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

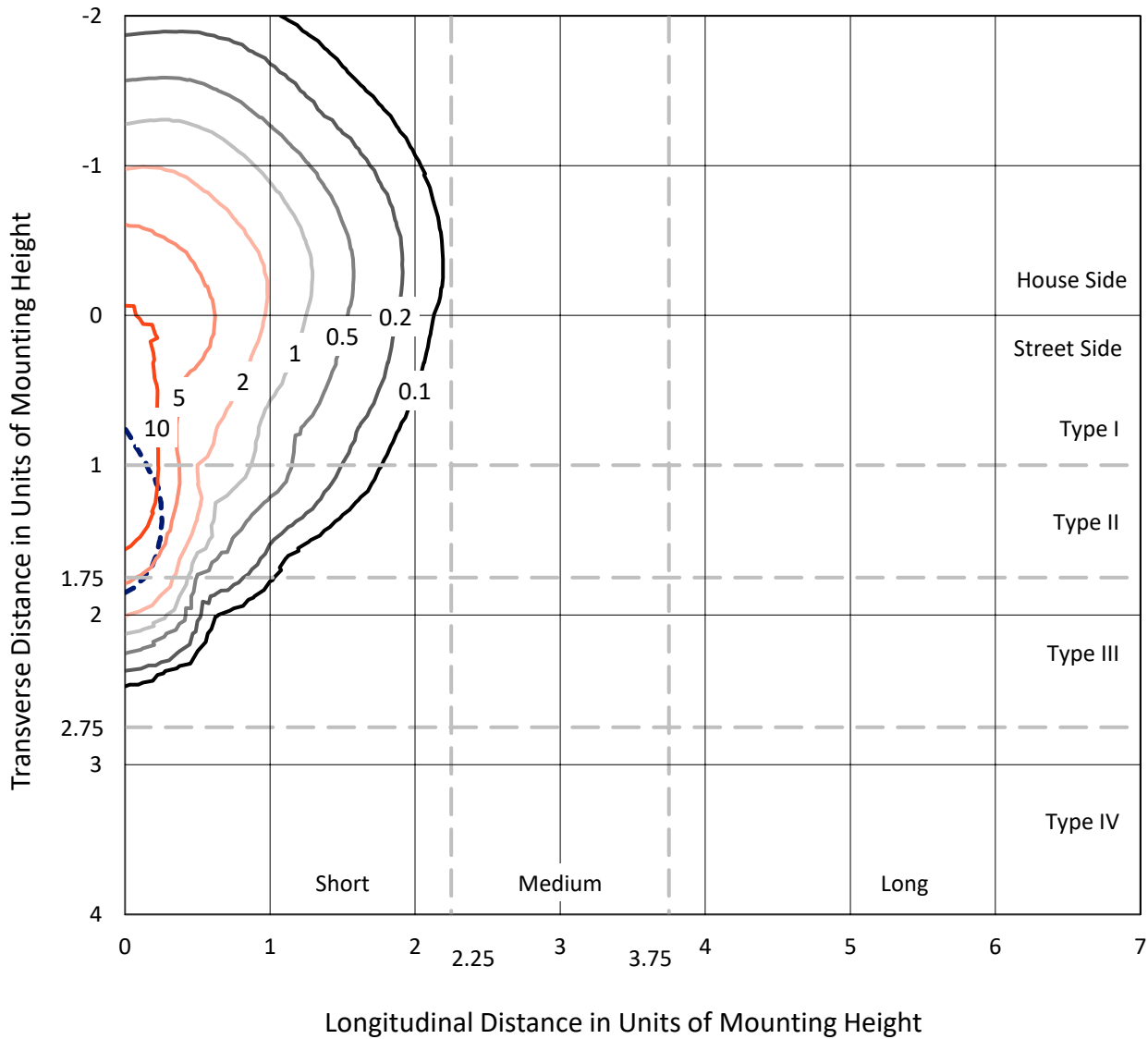
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

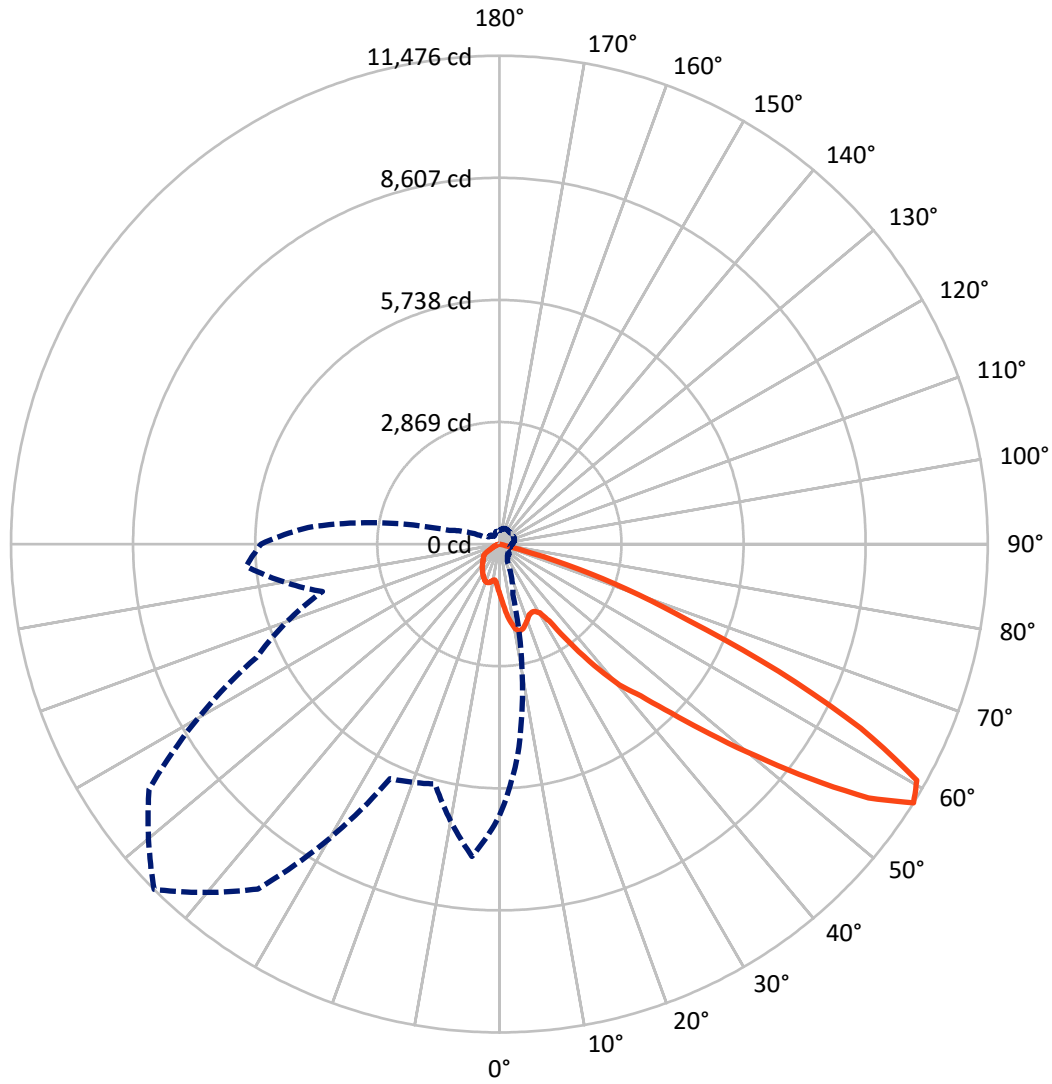
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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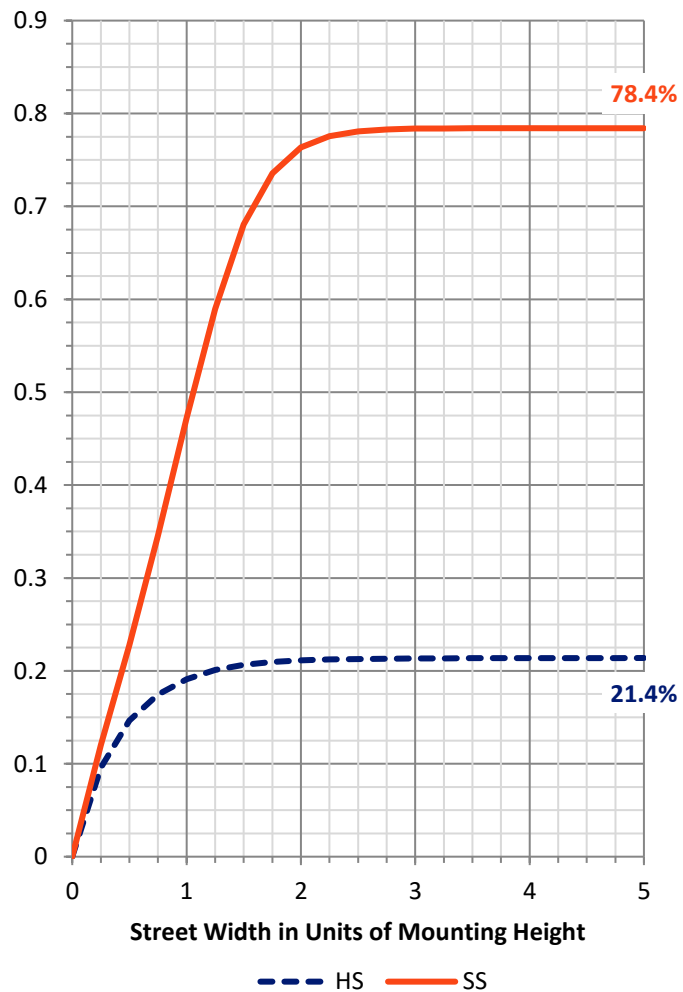
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.7	0.0	1488.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5421.6	0.0	5421.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	6910.3	0.0	6910.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.7
10°-20°	381.9	5.5
20°-30°	619.7	9.0
30°-40°	951.1	13.8
40°-50°	1519.0	22.0
50°-60°	2126.9	30.8
60°-70°	1090.5	15.8
70°-80°	105.0	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°	6910.3	100.0
0°-180°	6910.3	100.0

Coefficient of Utilization



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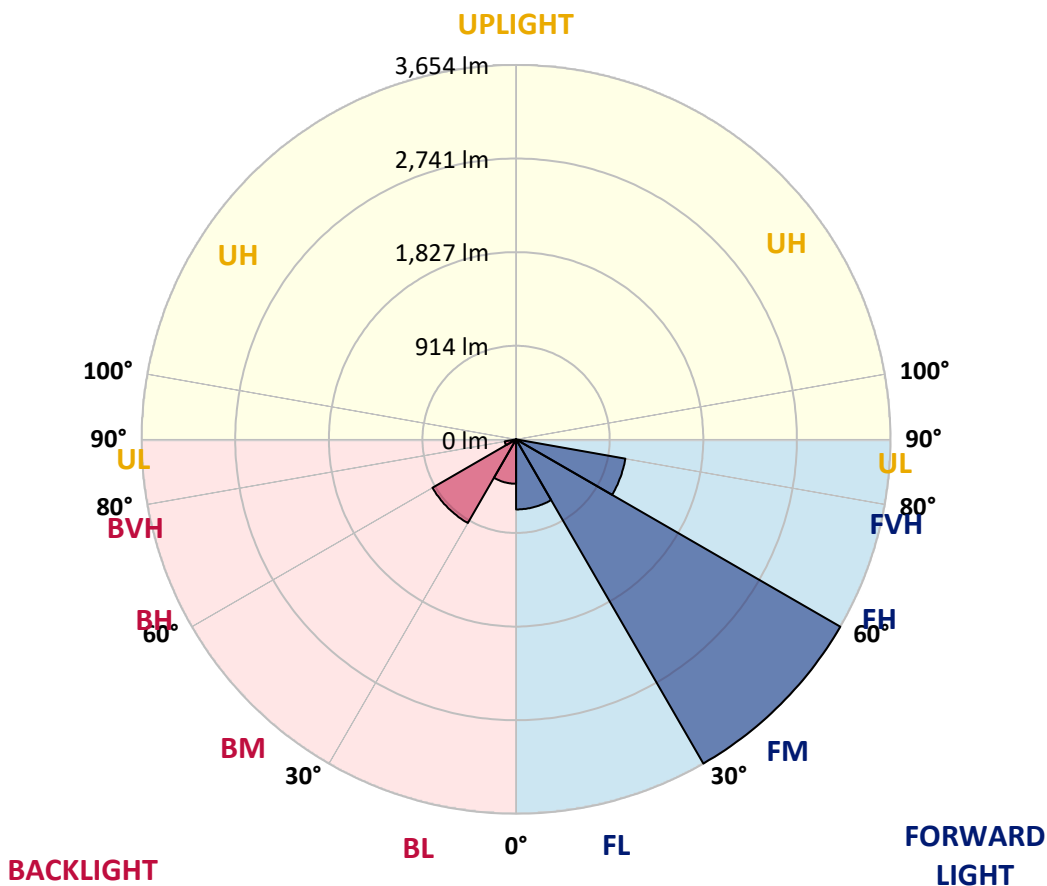
CATALOG NUMBER: GWS-SA2F-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.2	9.9			
FM (30°-60°)	3654.3	52.9			
FH (60°-80°)	1083.1	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	433.5	6.3	B1/500		
BM (30°-60°)	942.8	13.6	B1/1000		
BH (60°-80°)	112.4	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: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1304.4	1301.6	1292.4	1261.0	1241.6	1211.1	1188.9	1160.3	1128.9	1109.5	1090.1
5°	1443.0	1435.6	1410.7	1338.6	1283.2	1223.1	1175.1	1122.4	1066.1	1029.1	994.9
7.5°	1576.0	1564.9	1531.7	1409.7	1325.7	1239.8	1171.4	1094.7	1015.3	959.8	917.3
10°	1706.3	1681.3	1628.7	1479.0	1365.4	1261.9	1181.6	1093.8	1000.5	930.3	883.2
12.5°	1813.4	1795.0	1722.9	1544.6	1398.6	1266.5	1167.7	1086.4	1023.6	976.5	933.0
15°	1905.8	1885.5	1817.1	1603.7	1427.3	1248.1	1109.5	1038.4	1048.5	1067.0	1030.0
17.5°	1990.8	1969.6	1895.7	1652.7	1438.4	1202.8	1028.2	994.0	1050.4	1119.7	1105.8
20°	2078.6	2054.6	1964.0	1692.4	1434.7	1131.7	946.0	956.1	1035.6	1115.0	1122.4
22.5°	2181.1	2156.2	2050.9	1743.2	1431.9	1046.7	874.8	922.9	1007.9	1075.3	1088.2
25°	2316.9	2287.4	2171.9	1818.1	1439.3	969.1	824.0	890.6	960.8	1021.7	1029.1
27.5°	2496.1	2458.3	2311.4	1910.4	1455.0	908.1	801.9	846.2	900.7	955.2	961.7
30°	2729.9	2681.8	2471.2	1990.8	1447.6	865.6	787.1	801.9	834.2	878.5	879.5
32.5°	3003.3	2937.7	2650.4	2060.1	1383.9	834.2	766.8	756.6	764.0	798.2	804.6
35°	3324.8	3239.8	2848.1	2125.7	1267.5	773.2	729.8	695.6	692.9	709.5	725.2
37.5°	3693.4	3591.8	3097.5	2209.8	1129.8	709.5	675.3	641.1	626.3	634.7	658.7
40°	4033.4	3920.6	3358.0	2311.4	989.4	652.2	611.6	576.5	558.9	561.7	591.2
42.5°	4432.4	4316.0	3676.8	2444.4	873.0	613.4	545.0	509.0	485.9	498.9	533.0
45°	5038.5	4906.4	4141.4	2559.9	780.6	604.2	486.8	436.0	425.0	447.1	487.8
47.5°	5866.2	5704.5	4779.8	2630.1	702.1	612.5	446.2	376.9	379.7	404.6	445.3
50°	6687.5	6512.9	5517.9	2537.7	637.4	595.9	425.9	330.7	348.3	370.4	407.4
52.5°	7251.9	7024.7	5877.3	2270.7	578.3	533.0	424.0	287.3	320.6	328.0	359.4
55°	7274.1	6994.2	5693.4	1790.3	497.9	449.9	404.6	251.3	290.1	292.8	319.6
57.5°	6376.1	6123.0	4975.6	1229.6	442.5	329.8	322.4	219.9	238.3	261.4	278.1
60°	4850.9	4635.7	3721.1	563.5	336.3	209.7	220.8	189.4	178.3	212.5	229.1
62.5°	2971.0	2833.3	2231.9	249.4	214.3	111.8	134.0	150.6	134.0	146.9	160.7
65°	1179.7	1118.7	847.1	106.2	87.8	56.4	61.0	87.8	94.2	103.5	116.4
67.5°	205.1	194.0	142.3	47.1	36.0	34.2	29.6	40.6	57.3	63.7	73.9
70°	26.8	25.9	23.1	19.4	18.5	16.6	12.9	25.9	38.8	40.6	47.1
72.5°	6.5	5.5	5.5	4.6	5.5	1.8	1.8	13.9	27.7	28.6	33.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	17.6	19.4	23.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1074.4	1055.9	1049.4	1040.2	1028.2	1031.9	1015.3	1009.7	1018.0	1029.1	1026.4
5°	976.5	956.1	942.3	921.0	917.3	909.0	903.5	896.1	905.3	918.3	921.0
7.5°	898.9	881.3	867.5	861.0	856.4	852.7	841.6	836.0	836.0	841.6	846.2
10°	865.6	852.7	849.9	851.8	859.1	858.2	848.1	840.7	831.4	826.8	832.4
12.5°	911.8	890.6	886.9	887.8	897.0	896.1	885.0	875.8	873.9	875.8	893.3
15°	990.3	958.0	934.0	929.4	934.0	932.1	923.8	918.3	921.0	947.8	977.4
17.5°	1060.5	1010.6	967.2	950.6	949.7	946.9	938.6	936.7	950.6	1000.5	1043.9
20°	1080.9	1031.9	970.0	948.8	944.1	941.4	932.1	934.9	952.4	1012.5	1049.4
22.5°	1054.1	1007.0	942.3	921.0	917.3	916.4	907.2	910.9	925.7	978.3	1008.8
25°	1003.3	963.5	896.1	877.6	877.6	875.8	867.5	869.3	878.5	924.7	954.3
27.5°	941.4	903.5	847.1	828.7	831.4	834.2	824.0	821.3	828.7	872.1	889.6
30°	870.2	843.4	799.1	782.5	781.5	792.6	778.8	775.1	785.2	819.4	823.1
32.5°	800.9	788.0	756.6	743.7	744.6	746.4	739.0	739.0	748.3	766.8	765.8
35°	733.5	725.2	719.6	710.4	709.5	705.8	705.8	707.6	717.8	724.3	712.3
37.5°	668.8	677.2	683.6	674.4	667.0	667.0	667.0	675.3	684.5	681.8	661.4
40°	611.6	629.1	649.4	639.3	621.7	620.8	624.5	638.4	652.2	635.6	617.1
42.5°	562.6	584.8	613.4	607.9	588.5	585.7	588.5	606.0	617.1	595.9	575.5
45°	514.6	542.3	576.5	576.5	555.2	552.4	553.4	576.5	582.9	558.0	532.1
47.5°	473.9	504.4	540.4	540.4	522.9	517.3	522.0	546.0	550.6	515.5	491.5
50°	435.1	468.4	508.1	505.3	493.3	488.7	497.0	522.9	517.3	478.5	453.6
52.5°	386.2	421.3	475.8	478.5	472.1	473.0	483.2	499.8	484.1	437.0	415.7
55°	341.8	377.8	432.3	447.1	447.1	446.2	450.8	463.8	450.8	394.5	368.6
57.5°	293.8	324.3	369.5	373.2	376.0	365.8	372.3	389.8	383.4	335.3	320.6
60°	241.1	267.0	292.8	295.6	283.6	262.4	274.4	294.7	299.3	263.3	246.7
62.5°	170.9	195.8	226.3	226.3	214.3	193.1	208.8	226.3	219.9	182.9	172.8
65°	127.5	150.6	173.7	183.8	173.7	158.9	170.9	183.8	173.7	143.2	128.4
67.5°	82.2	97.9	111.8	120.1	121.9	120.1	125.6	121.9	109.9	89.6	81.3
70°	49.9	58.2	65.6	73.0	78.5	81.3	84.1	75.8	63.7	52.7	49.9
72.5°	36.0	43.4	49.9	55.4	61.9	63.7	63.7	58.2	47.1	37.0	34.2
75°	24.9	31.4	37.0	40.6	46.2	48.0	48.0	43.4	35.1	26.8	24.0
77.5°	0.9	6.5	6.5	5.5	7.4	9.2	9.2	11.1	10.2	7.4	6.5
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°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1031.9	1065.2	1074.4	1108.6	1139.1	1169.5	1206.5	1228.7	1261.9	1285.0	1298.0
5°	930.3	958.0	991.2	1042.1	1094.7	1152.9	1223.1	1284.1	1360.8	1417.1	1435.6
7.5°	856.4	892.4	931.2	994.9	1067.0	1144.6	1243.4	1343.2	1460.5	1537.2	1586.2
10°	842.5	879.5	931.2	994.0	1069.8	1158.5	1279.5	1408.8	1555.7	1649.0	1704.4
12.5°	909.0	948.8	970.9	999.6	1056.8	1155.7	1310.9	1475.3	1648.1	1749.7	1808.8
15°	1007.0	1042.1	1006.0	970.0	1007.0	1126.1	1328.4	1530.8	1729.4	1846.7	1907.7
17.5°	1074.4	1077.2	998.6	922.0	932.1	1072.5	1334.9	1586.2	1816.2	1939.1	2002.8
20°	1067.9	1045.8	966.3	881.3	849.9	1003.3	1327.5	1635.1	1904.0	2032.4	2095.2
22.5°	1018.0	992.2	924.7	841.6	780.6	921.0	1314.6	1679.5	1984.3	2130.3	2189.4
25°	958.0	930.3	874.8	801.9	736.3	841.6	1304.4	1740.5	2086.0	2257.8	2304.0
27.5°	887.8	863.8	816.6	764.0	717.8	781.5	1301.6	1820.8	2208.8	2413.0	2445.3
30°	819.4	797.2	760.3	729.8	710.4	746.4	1292.4	1906.7	2355.7	2591.3	2626.4
32.5°	753.8	731.7	708.6	703.9	704.9	733.5	1261.0	1991.7	2530.3	2850.0	2875.8
35°	697.5	671.6	662.4	673.5	693.8	711.3	1172.3	2061.9	2717.8	3131.7	3153.0
37.5°	643.9	618.0	617.1	643.9	666.1	677.2	1067.9	2131.2	2971.0	3418.1	3444.9
40°	594.9	569.1	578.3	610.6	628.2	633.7	941.4	2236.5	3238.9	3720.2	3705.4
42.5°	553.4	526.6	532.1	573.7	589.4	604.2	825.0	2324.3	3496.6	4006.6	4001.9
45°	512.7	492.4	488.7	534.0	547.8	606.9	740.0	2391.7	3828.3	4371.5	4378.9
47.5°	473.0	457.3	458.2	477.6	511.8	620.8	667.9	2436.1	4309.6	4949.8	4821.4
50°	437.0	425.0	435.1	412.9	488.7	603.2	606.0	2426.8	4847.2	5504.1	5246.3
52.5°	397.2	394.5	399.1	345.5	451.7	532.1	547.8	2304.0	5099.4	5882.8	5735.9
55°	356.6	355.7	318.7	276.2	377.8	425.0	469.3	1922.4	5091.1	6084.2	6262.5
57.5°	308.6	301.2	242.0	225.4	293.8	295.6	427.7	1259.2	4511.9	5602.0	5971.5
60°	233.7	228.2	177.4	182.9	205.1	189.4	340.9	627.3	3371.9	4364.1	4780.7
62.5°	161.7	154.3	132.1	141.3	132.1	108.1	208.8	310.4	2042.5	2755.7	3133.6
65°	118.2	109.9	90.5	77.6	61.9	61.9	79.4	119.2	790.8	1171.4	1412.5
67.5°	73.0	69.3	53.6	38.8	37.9	40.6	41.6	59.1	127.5	203.2	248.5
70°	47.1	43.4	36.0	24.9	23.1	24.0	24.9	27.7	32.3	35.1	42.5
72.5°	32.3	30.5	25.9	13.9	11.1	12.0	12.9	12.9	15.7	14.8	17.6
75°	23.1	21.2	18.5	6.5	3.7	4.6	5.5	4.6	5.5	3.7	4.6
77.5°	6.5	6.5	4.6	0.9	0.0	0.9	1.8	1.8	0.9	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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-SA2F-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1331.2	1352.5	1360.8	1348.8	1358.9	1342.3	1335.8	1310.9	1309.0	1304.4
5°	1510.4	1558.5	1587.1	1604.7	1584.3	1562.2	1528.9	1471.6	1454.1	1443.0
7.5°	1686.9	1761.7	1810.7	1833.8	1828.2	1783.0	1722.9	1626.8	1592.6	1576.0
10°	1840.2	1931.7	1990.8	2019.4	2007.4	1967.7	1881.8	1761.7	1716.4	1706.3
12.5°	1947.4	2031.5	2072.1	2097.0	2098.0	2082.3	2001.0	1880.0	1826.4	1813.4
15°	2014.8	2050.9	2051.8	2066.6	2092.4	2127.5	2089.7	1982.5	1925.2	1905.8
17.5°	2057.3	2017.6	1977.0	1980.6	2023.1	2116.4	2155.2	2073.0	2012.1	1990.8
20°	2087.8	1962.2	1886.4	1887.3	1930.8	2072.1	2200.5	2160.8	2098.0	2078.6
22.5°	2107.2	1913.2	1805.1	1802.4	1848.5	2019.4	2242.1	2265.2	2203.3	2181.1
25°	2146.9	1890.1	1756.2	1771.9	1812.5	2002.8	2298.4	2403.8	2346.5	2316.9
27.5°	2218.1	1913.2	1751.5	1787.6	1833.8	2051.8	2396.4	2588.5	2529.4	2496.1
30°	2340.9	2000.0	1822.7	1872.6	1928.0	2180.2	2560.8	2846.3	2761.3	2729.9
32.5°	2538.6	2180.2	2042.5	2149.7	2203.3	2390.8	2807.5	3135.4	3066.1	3003.3
35°	2811.2	2591.3	2575.6	2825.0	2812.1	2789.9	3110.5	3490.2	3385.8	3324.8
37.5°	3186.2	3252.7	3369.1	3616.7	3608.4	3439.3	3508.6	3825.5	3771.9	3693.4
40°	3654.6	3795.9	3993.6	4348.4	4237.5	4025.0	3997.3	4169.2	4125.7	4033.4
42.5°	3930.8	4174.7	4551.6	4870.3	4781.6	4410.3	4378.9	4628.3	4533.1	4432.4
45°	4059.2	4483.2	5222.3	5653.7	5384.9	4666.2	4654.2	5226.9	5173.3	5038.5
47.5°	4118.3	4794.6	6007.5	6660.7	6158.1	4890.6	4847.2	6095.3	6025.1	5866.2
50°	4183.9	5224.1	6953.5	7827.4	7092.1	5144.7	5176.1	6904.6	6875.0	6687.5
52.5°	4328.0	5678.7	8118.4	9161.4	8224.7	5542.9	5740.6	7667.6	7468.1	7251.9
55°	4544.2	6173.8	9330.5	10524.0	9380.4	6077.7	6351.2	8073.2	7513.3	7274.1
57.5°	4305.0	6297.6	10048.3	11475.6	9893.1	6079.6	5834.8	7370.2	6608.0	6376.1
60°	3416.2	5858.8	9772.1	11269.6	9456.1	5398.7	4467.5	5754.4	5006.1	4850.9
62.5°	2309.5	4913.7	8602.5	9530.9	8093.5	4246.8	2903.5	3742.4	3099.4	2971.0
65°	1265.6	3665.7	6950.7	7210.3	6334.6	2966.4	1493.8	1624.1	1237.0	1179.7
67.5°	349.2	2551.6	5114.2	4783.5	4444.4	1931.7	386.2	290.1	206.9	205.1
70°	87.8	1687.8	3064.3	3158.5	2725.2	1237.0	73.9	35.1	27.7	26.8
72.5°	37.0	726.1	1454.1	1671.2	1395.0	572.8	26.8	10.2	8.3	6.5
75°	4.6	58.2	123.8	187.5	128.4	61.9	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

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