

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: P634028

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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: 6875.2 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

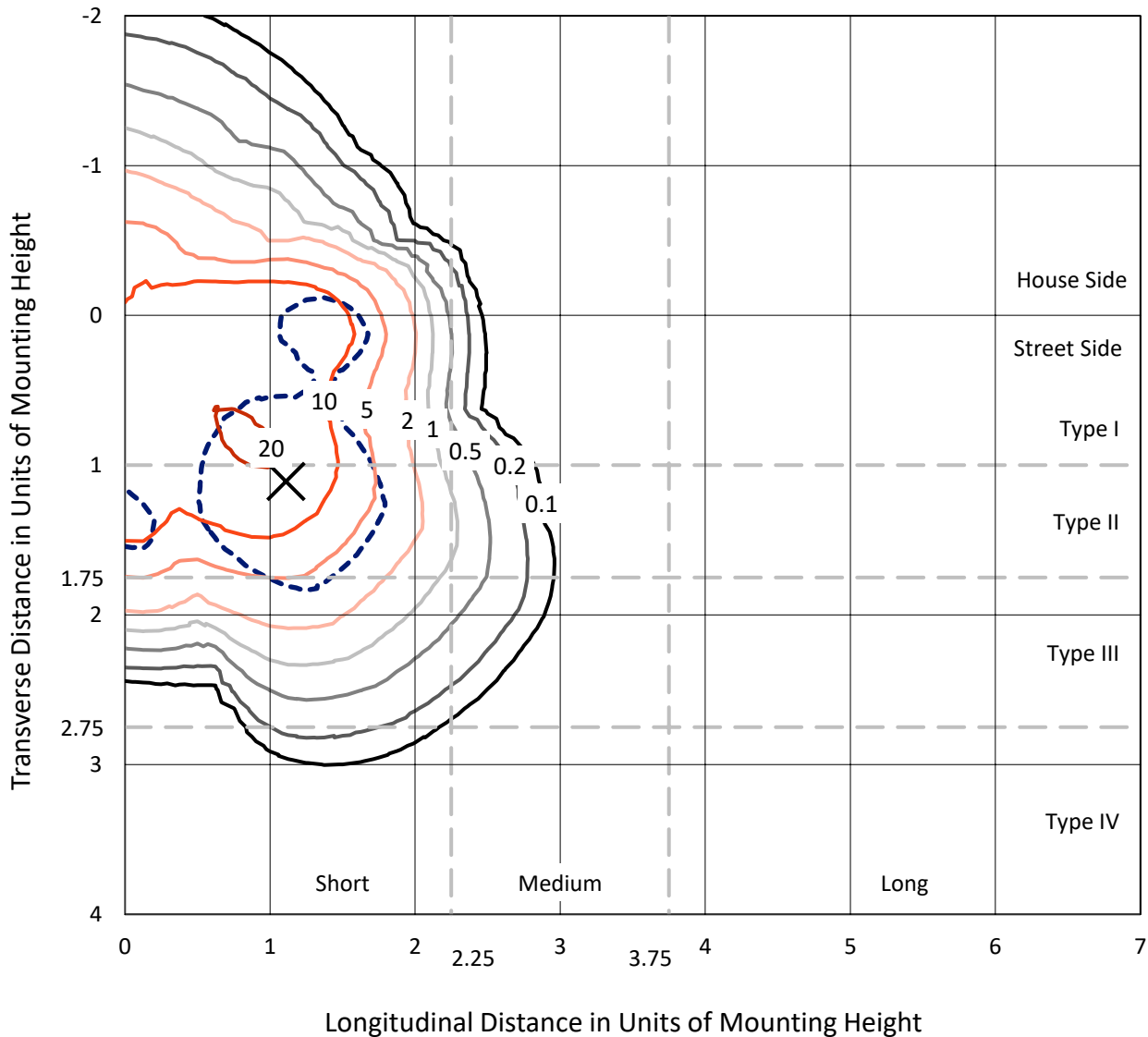
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634028
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

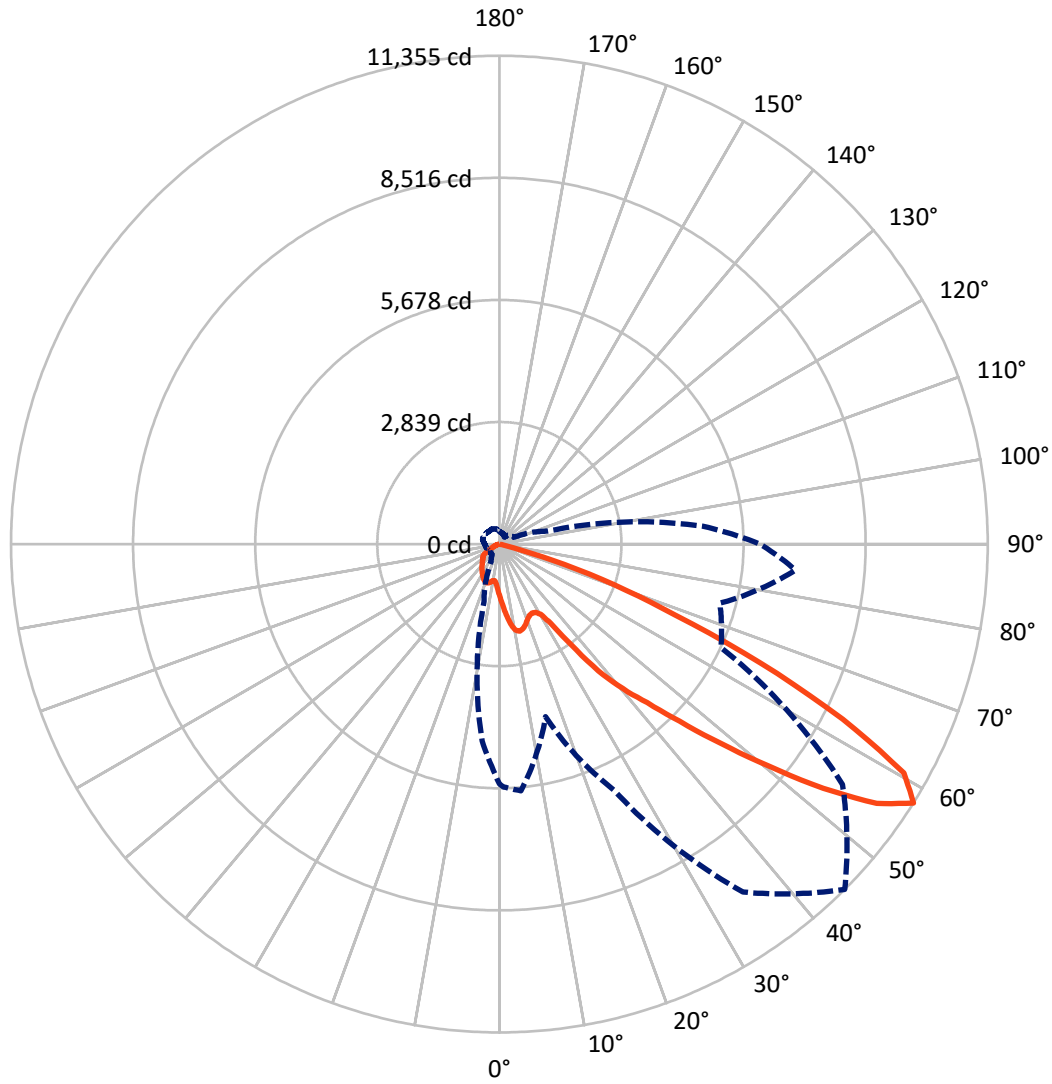
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Short - N/A

REPORT NUMBER: P634028
CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P634028

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.5	0.0	1539.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	5335.7	0.0	5335.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	6875.2	0.0	6875.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.7
10°-20°	384.6	5.6
20°-30°	624.7	9.1
30°-40°	965.3	14.0
40°-50°	1547.8	22.5
50°-60°	2115.4	30.8
60°-70°	1024.5	14.9
70°-80°	93.8	1.4
80°-90°	0.3	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°	6875.2	100.0
0°-180°	6875.2	100.0

Coefficient of Utilization



REPORT NUMBER: P634028

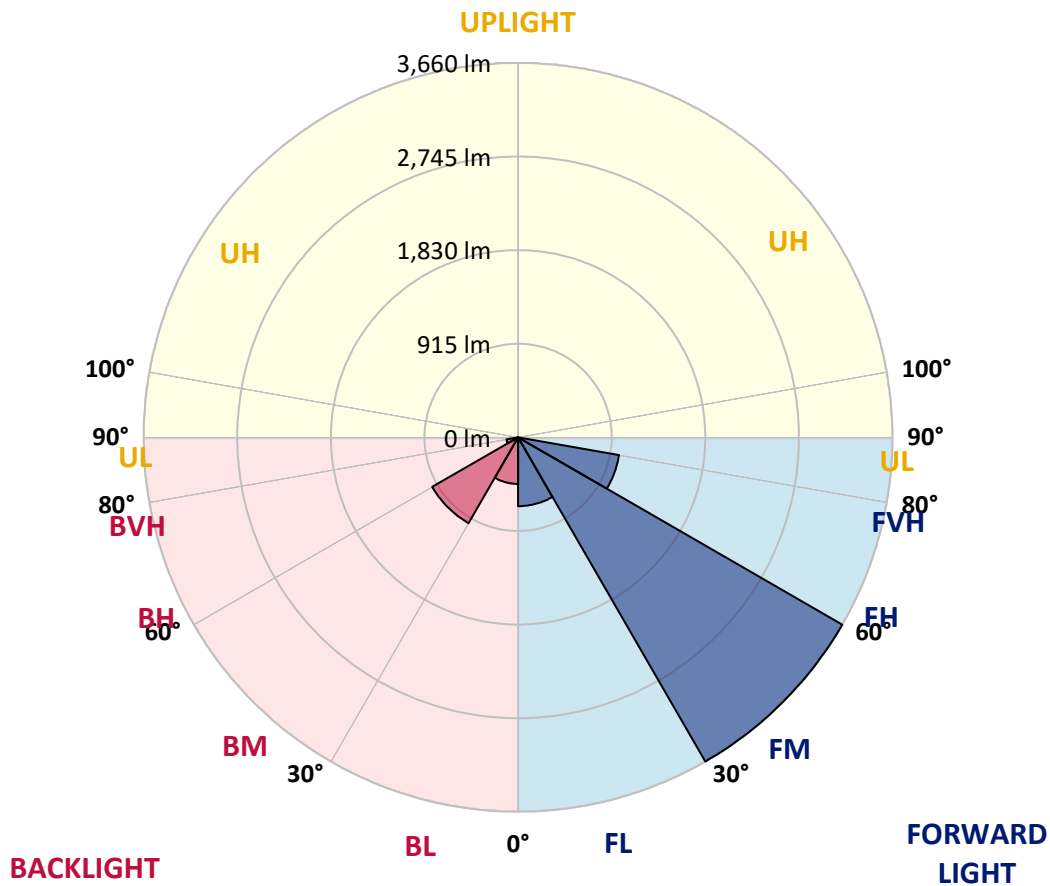
CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.6	9.8			
FM (30°-60°)	3659.8	53.2			
FH (60°-80°)	1003.0	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	455.5	6.6	B1/500		
BM (30°-60°)	968.6	14.1	B1/1000		
BH (60°-80°)	115.4	1.7	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





REPORT NUMBER: P634028

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1309.1	1317.4	1331.3	1360.8	1385.8	1402.4	1409.8	1407.9	1397.8	1390.4	1375.6
5°	1449.5	1449.5	1476.3	1543.7	1595.5	1627.8	1644.4	1634.3	1614.0	1581.6	1531.7
7.5°	1572.4	1577.0	1622.3	1718.4	1796.9	1843.1	1869.9	1864.3	1828.3	1766.4	1666.6
10°	1668.5	1674.0	1734.1	1851.4	1943.8	1990.9	2030.6	2034.3	1994.6	1912.4	1797.8
12.5°	1761.8	1767.3	1830.1	1942.8	2024.1	2043.5	2078.7	2092.5	2082.3	2024.1	1905.0
15°	1862.5	1875.4	1929.0	2013.1	2047.2	2024.1	2047.2	2072.2	2106.4	2100.8	1993.7
17.5°	1961.3	1970.6	2025.1	2054.6	2016.8	1956.7	1967.8	1997.4	2075.0	2150.7	2081.4
20°	2052.8	2065.7	2111.0	2072.2	1957.6	1864.3	1865.2	1904.0	2022.3	2181.2	2171.0
22.5°	2148.9	2168.3	2200.6	2091.6	1903.1	1791.3	1796.0	1831.1	1980.7	2209.8	2272.7
25°	2274.5	2293.0	2314.2	2139.6	1885.6	1755.3	1772.9	1805.2	1980.7	2258.8	2398.3
27.5°	2444.5	2457.4	2458.4	2229.2	1916.1	1760.8	1797.8	1834.8	2039.9	2356.7	2566.4
30°	2657.9	2678.2	2651.4	2368.7	2011.2	1834.8	1889.3	1935.5	2167.3	2522.1	2814.0
32.5°	2917.5	2946.1	2910.1	2575.7	2209.8	2089.7	2188.6	2215.4	2370.6	2761.4	3094.9
35°	3222.4	3246.4	3207.6	2862.1	2673.6	2695.8	2875.0	2840.8	2778.9	3056.1	3422.8
37.5°	3556.8	3579.0	3504.1	3296.3	3359.1	3455.2	3741.6	3624.2	3424.7	3435.8	3778.5
40°	3863.5	3887.5	3770.2	3768.4	3897.7	4073.2	4418.8	4257.1	3985.5	3932.8	4112.0
42.5°	4181.3	4198.0	4091.7	4019.7	4313.4	4674.7	5040.5	4822.5	4356.9	4299.6	4529.6
45°	4634.9	4670.0	4480.7	4143.4	4687.6	5366.6	5876.6	5450.7	4610.0	4563.8	5168.9
47.5°	5302.0	5327.8	4941.7	4221.1	5035.9	6228.6	6921.5	6265.5	4832.6	4727.3	6042.9
50°	5853.5	5871.0	5365.7	4306.0	5406.3	7158.0	8112.3	7231.9	5083.0	4998.0	6858.6
52.5°	6260.0	6326.5	5922.8	4480.7	5893.2	8250.9	9430.6	8376.5	5473.8	5520.9	7534.9
55°	6344.0	6434.6	6303.4	4587.8	6321.9	9364.1	10648.2	9401.1	5863.6	5917.2	7762.2
57.5°	5575.4	5647.5	5756.5	4155.5	6311.7	9874.1	11355.0	9741.0	5686.3	5306.6	6911.3
60°	4176.7	4226.6	4424.3	3176.2	5804.5	9423.2	10804.4	9162.7	4972.1	4049.2	5265.9
62.5°	2476.8	2499.0	2749.4	2057.4	4817.9	8115.1	8960.4	7906.3	3929.1	2723.5	3225.1
65°	950.6	941.4	1132.6	1015.3	3542.9	6464.1	6664.6	6027.2	2695.8	1248.1	1229.6
67.5°	146.9	140.4	189.4	300.2	2555.4	4479.7	4397.5	4343.9	1688.8	291.0	254.1
70°	33.3	33.3	40.6	88.7	1561.3	2632.0	2816.8	2685.6	1080.9	61.9	33.3
72.5°	15.7	15.7	19.4	37.9	565.4	1084.6	1263.8	1244.4	351.1	20.3	12.0
75°	5.5	6.5	6.5	8.3	34.2	56.4	129.3	92.4	22.2	0.0	0.0
77.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	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: P634028

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1343.3	1336.8	1312.8	1280.5	1249.0	1221.3	1192.7	1158.5	1133.6	1104.9	1095.7
5°	1492.9	1452.3	1386.7	1318.3	1255.5	1201.9	1150.2	1094.8	1054.1	1013.5	999.6
7.5°	1619.5	1559.5	1453.2	1350.7	1264.7	1189.0	1114.2	1038.4	979.3	931.2	916.5
10°	1733.1	1663.8	1521.6	1395.0	1286.9	1199.2	1108.6	1013.5	936.8	879.5	865.6
12.5°	1831.1	1750.7	1579.8	1428.3	1296.2	1195.5	1107.7	1031.9	962.6	897.1	879.5
15°	1913.3	1824.6	1628.7	1450.4	1282.3	1149.3	1072.6	1060.6	1055.0	983.0	948.8
17.5°	1993.7	1893.9	1668.5	1460.6	1243.5	1068.0	1012.5	1067.0	1125.2	1078.1	1034.7
20°	2077.7	1964.1	1709.1	1462.4	1178.8	976.5	967.3	1053.2	1127.1	1112.3	1071.7
22.5°	2176.6	2051.9	1759.9	1461.5	1097.5	898.9	934.0	1026.4	1086.4	1085.5	1053.2
25°	2319.8	2162.7	1828.3	1467.1	1008.8	838.9	897.1	981.1	1030.1	1028.2	1001.4
27.5°	2473.1	2294.8	1917.0	1480.9	933.1	803.7	853.6	919.2	961.7	959.9	936.8
30°	2688.4	2447.3	2002.0	1481.8	878.6	785.3	805.6	850.9	891.5	886.9	869.3
32.5°	2949.8	2619.1	2073.1	1429.2	844.4	767.7	755.7	778.8	810.2	803.7	799.1
35°	3265.8	2823.3	2134.1	1313.7	791.7	732.6	700.3	704.9	727.1	730.8	728.9
37.5°	3626.1	3066.2	2209.8	1161.3	720.6	681.8	638.4	634.7	647.6	659.6	668.9
40°	3981.8	3339.7	2312.4	1007.0	655.9	617.1	575.6	566.3	571.9	593.1	612.5
42.5°	4381.8	3656.6	2423.2	874.9	611.6	546.0	506.3	488.7	504.4	538.6	561.7
45°	4958.3	4101.0	2531.3	769.6	593.1	483.2	429.6	427.7	445.3	489.6	515.5
47.5°	5767.6	4675.6	2602.5	687.3	592.2	434.2	370.5	381.5	401.9	445.3	474.9
50°	6556.5	5395.3	2523.9	624.5	572.8	401.9	326.1	348.3	368.6	406.5	437.0
52.5°	7032.3	5782.4	2218.2	565.4	512.7	387.1	282.7	321.5	325.2	359.4	391.7
55°	6982.4	5532.0	1699.0	473.9	424.0	365.8	237.4	290.1	291.9	317.8	345.5
57.5°	6060.4	4749.5	1166.8	384.3	318.7	302.1	195.9	244.8	262.4	278.1	298.4
60°	4516.7	3465.3	520.1	312.3	202.3	204.2	167.2	184.8	211.6	230.0	247.6
62.5°	2661.6	1993.7	211.6	187.5	111.8	128.4	134.9	134.9	151.5	165.4	176.5
65°	1006.1	697.5	85.9	94.2	58.2	60.0	79.5	97.9	110.9	122.9	137.7
67.5°	176.5	121.9	44.3	35.1	34.2	30.5	40.6	63.7	71.1	80.4	86.8
70°	29.6	24.9	18.5	17.6	15.7	16.6	26.8	45.3	49.9	52.7	55.4
72.5°	8.3	7.4	5.5	4.6	3.7	4.6	16.6	35.1	37.0	38.8	41.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	24.9	26.8	27.7	30.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	7.4	9.2	7.4
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



REPORT NUMBER: P634028
 CATALOG NUMBER: GWS-SA2F-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1090.1	1071.7	1061.5	1056.0	1056.0	1048.6	1040.3	1037.5	1049.5	1049.5	1069.8
5°	982.0	967.3	950.6	940.5	924.8	927.5	918.3	917.4	929.4	934.9	956.2
7.5°	907.2	888.7	878.6	872.1	863.8	860.1	851.8	849.0	855.5	864.7	885.0
10°	857.3	854.6	853.6	858.3	858.3	853.6	846.2	841.6	843.5	861.0	884.1
12.5°	870.3	875.8	877.7	885.0	888.7	885.0	879.5	881.3	893.4	925.7	959.9
15°	926.6	922.0	920.2	923.8	926.6	922.9	921.1	934.9	976.5	1022.7	1061.5
17.5°	986.7	957.1	944.2	944.2	946.0	944.2	946.0	972.8	1040.3	1086.4	1115.1
20°	1017.2	962.6	942.3	937.7	941.4	942.3	948.8	979.3	1053.2	1085.5	1092.0
22.5°	1007.9	939.6	916.5	912.8	916.5	920.2	926.6	952.5	1021.8	1038.4	1035.6
25°	961.7	894.3	875.8	875.8	884.1	883.2	886.0	904.4	961.7	971.9	967.3
27.5°	903.5	839.8	824.1	833.3	840.7	838.9	839.8	855.5	898.0	900.7	896.1
30°	844.4	789.0	774.2	785.3	795.4	793.6	794.5	810.2	837.0	834.2	827.8
32.5°	784.3	743.7	732.6	739.1	754.8	752.9	756.6	773.3	783.4	771.4	764.0
35°	728.9	707.7	699.4	703.0	715.1	717.8	724.3	735.4	735.4	720.6	707.7
37.5°	677.2	674.4	668.9	664.2	675.3	683.6	692.9	705.8	687.3	666.1	654.1
40°	629.1	641.1	633.8	621.7	628.2	640.2	658.7	668.9	646.7	625.4	605.1
42.5°	584.8	605.1	602.3	587.6	593.1	604.2	625.4	633.8	607.9	583.9	564.5
45°	542.3	570.9	572.8	554.3	559.9	570.9	595.9	598.7	565.4	539.5	525.7
47.5°	505.3	536.8	537.7	523.8	525.7	541.4	564.5	565.4	527.5	503.5	485.9
50°	470.2	506.3	509.0	497.0	498.9	517.4	536.8	533.1	492.4	467.5	451.8
52.5°	427.7	476.7	483.2	477.6	485.0	499.8	511.8	498.9	451.8	426.8	413.0
55°	381.5	445.3	459.2	455.5	463.8	475.8	478.6	470.2	411.1	386.2	373.2
57.5°	328.0	366.8	390.8	383.4	389.9	401.9	410.2	403.7	359.4	340.0	328.9
60°	271.6	297.5	303.0	291.0	285.5	306.7	326.1	317.8	279.9	267.9	255.0
62.5°	198.6	228.2	231.9	216.2	209.7	232.8	249.4	241.1	199.6	186.6	176.5
65°	158.9	186.6	194.0	179.2	175.5	193.1	203.2	182.9	153.4	139.5	128.4
67.5°	104.4	126.6	146.0	145.0	137.7	143.2	135.8	119.2	97.9	90.5	83.1
70°	64.7	77.6	89.6	94.2	93.3	91.5	81.3	69.3	62.8	60.0	56.4
72.5°	49.9	62.8	72.1	74.8	75.8	73.0	64.7	53.6	47.1	43.4	40.6
75°	37.0	47.1	54.5	58.2	60.0	58.2	49.9	42.5	36.0	33.3	30.5
77.5°	12.9	15.7	19.4	21.2	20.3	19.4	17.6	17.6	13.9	12.9	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



REPORT NUMBER: P634028

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1092.9	1109.5	1140.0	1167.7	1197.3	1227.8	1261.0	1295.2	1310.9	1309.1
5°	988.5	1024.5	1074.4	1128.9	1189.9	1255.5	1328.5	1403.3	1435.7	1449.5
7.5°	922.9	973.7	1039.3	1108.6	1189.0	1282.3	1392.2	1509.6	1556.7	1572.4
10°	931.2	990.4	1044.9	1112.3	1198.2	1319.3	1456.0	1595.5	1650.9	1668.5
12.5°	998.7	1011.6	1026.4	1081.8	1189.9	1347.0	1514.2	1680.5	1744.2	1761.8
15°	1059.7	999.6	971.9	1022.7	1160.4	1366.4	1573.3	1771.9	1842.1	1862.5
17.5°	1062.4	971.9	910.0	949.7	1112.3	1374.7	1631.5	1865.2	1941.9	1961.3
20°	1028.2	941.4	861.9	862.9	1046.7	1372.8	1679.6	1949.3	2035.2	2052.8
22.5°	978.4	905.4	823.1	794.5	976.5	1369.1	1732.2	2038.9	2132.2	2148.9
25°	922.9	859.2	786.2	742.8	906.3	1372.8	1806.1	2156.3	2258.8	2274.5
27.5°	862.9	808.4	757.6	722.4	847.2	1386.7	1894.8	2305.9	2427.9	2444.5
30°	800.1	759.4	739.1	717.8	810.2	1390.4	1990.9	2480.5	2634.8	2657.9
32.5°	738.2	716.0	716.9	720.6	775.1	1364.5	2078.7	2674.5	2880.6	2917.5
35°	680.9	674.4	692.9	711.4	724.3	1298.0	2155.3	2903.6	3184.5	3222.4
37.5°	631.9	637.5	660.5	679.0	668.9	1203.8	2257.0	3190.0	3524.5	3556.8
40°	584.8	598.7	625.4	633.8	626.4	1093.8	2378.9	3466.3	3819.2	3863.5
42.5°	541.4	551.5	589.4	591.3	614.4	982.0	2496.2	3763.7	4158.2	4181.3
45°	506.3	504.4	543.2	555.2	630.1	858.3	2610.8	4160.1	4601.7	4634.9
47.5°	472.1	470.2	479.5	534.0	636.5	743.7	2724.4	4740.3	5244.7	5302.0
50°	439.8	442.5	413.9	523.8	601.4	655.9	2776.2	5277.0	5829.5	5853.5
52.5°	411.1	400.9	351.1	490.6	526.6	572.8	2629.3	5520.9	6191.6	6260.0
55°	370.5	314.1	289.2	398.2	415.7	499.8	2153.5	5379.6	6223.0	6344.0
57.5°	316.9	246.7	245.7	293.8	293.8	463.8	1379.3	4596.1	5362.9	5575.4
60°	243.9	191.2	203.2	204.2	188.5	338.1	774.2	3329.5	3965.1	4176.7
62.5°	173.7	146.0	153.4	121.9	108.1	169.1	371.4	1917.0	2447.3	2476.8
65°	116.4	98.9	80.4	67.4	66.5	72.1	153.4	692.9	842.5	950.6
67.5°	76.7	60.0	42.5	42.5	48.0	48.0	58.2	114.6	160.7	146.9
70°	49.9	41.6	26.8	25.9	31.4	31.4	29.6	31.4	33.3	33.3
72.5°	37.0	31.4	15.7	13.9	17.6	18.5	16.6	15.7	15.7	15.7
75°	27.7	22.2	9.2	6.5	8.3	11.1	9.2	6.5	6.5	5.5
77.5°	11.1	8.3	3.7	2.8	4.6	6.5	5.5	2.8	1.8	1.8
80°	0.9	1.8	1.8	1.8	2.8	3.7	4.6	1.8	0.9	0.9
82.5°	0.0	0.9	0.9	0.9	1.8	2.8	3.7	1.8	0.9	0.9
85°	0.0	0.0	0.0	0.0	1.8	2.8	1.8	0.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.9	2.8	1.8	0.9	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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