

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: P631388

Luminaire Tested: GWS-SA1F-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631388
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-SA1F-750-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4597.6 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

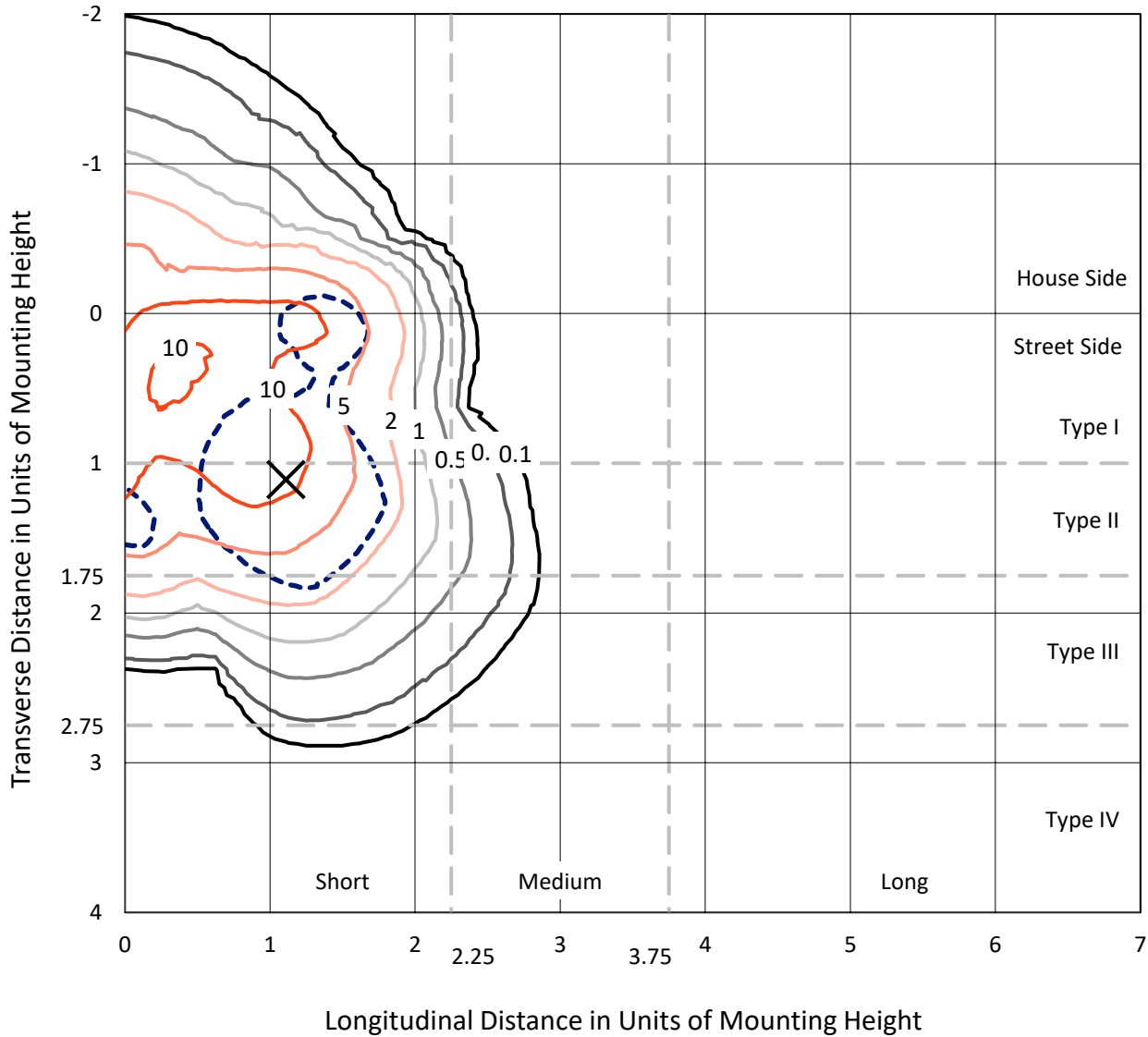
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

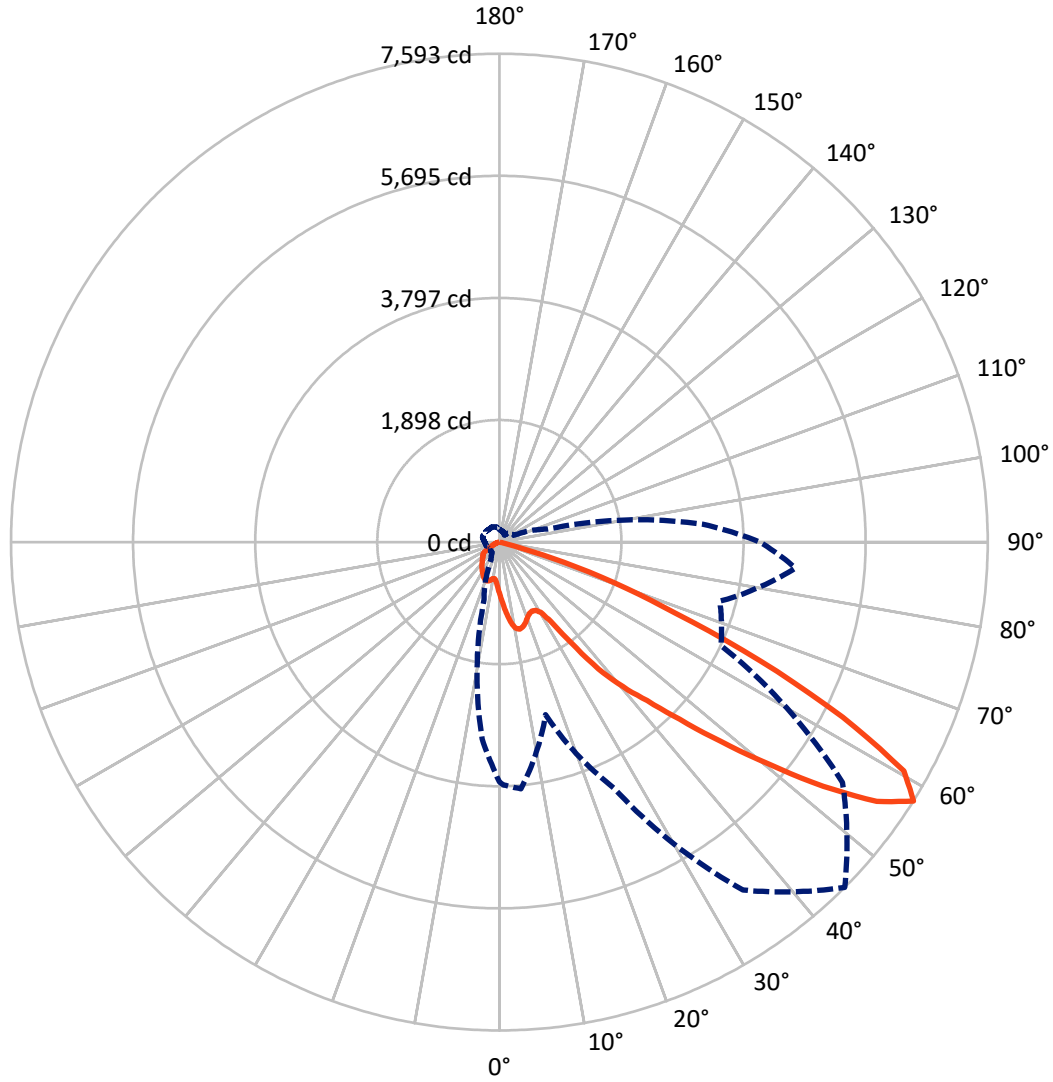
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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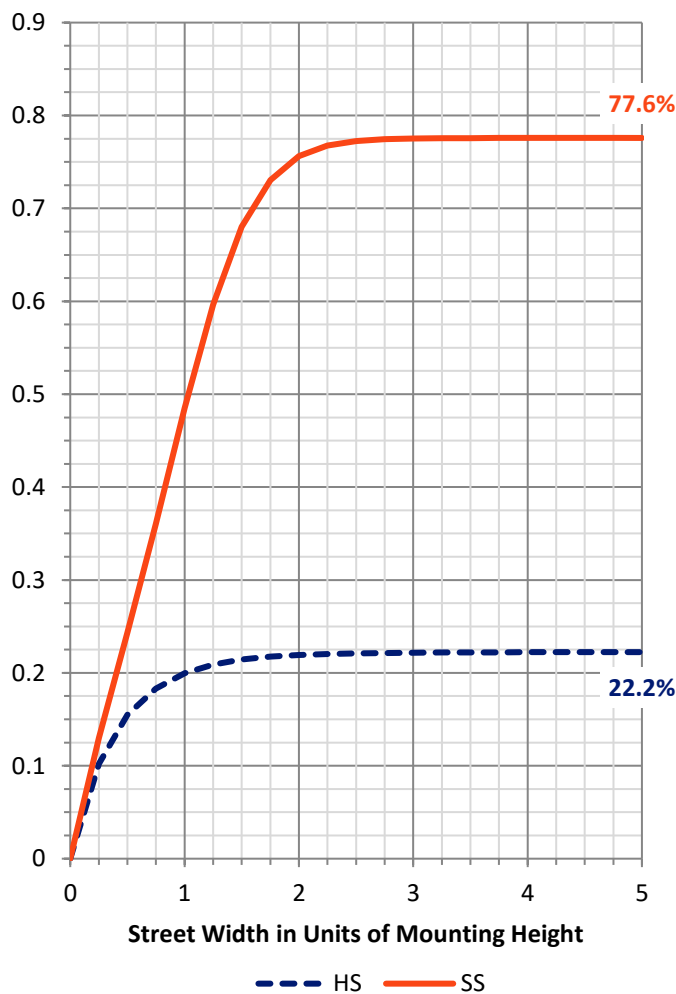
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.5	0.0	1029.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	3568.1	0.0	3568.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	4597.6	0.0	4597.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.7
10°-20°	257.2	5.6
20°-30°	417.8	9.1
30°-40°	645.5	14.0
40°-50°	1035.0	22.5
50°-60°	1414.6	30.8
60°-70°	685.1	14.9
70°-80°	62.7	1.4
80°-90°	0.2	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°	4597.6	100.0
0°-180°	4597.6	100.0

Coefficient of Utilization



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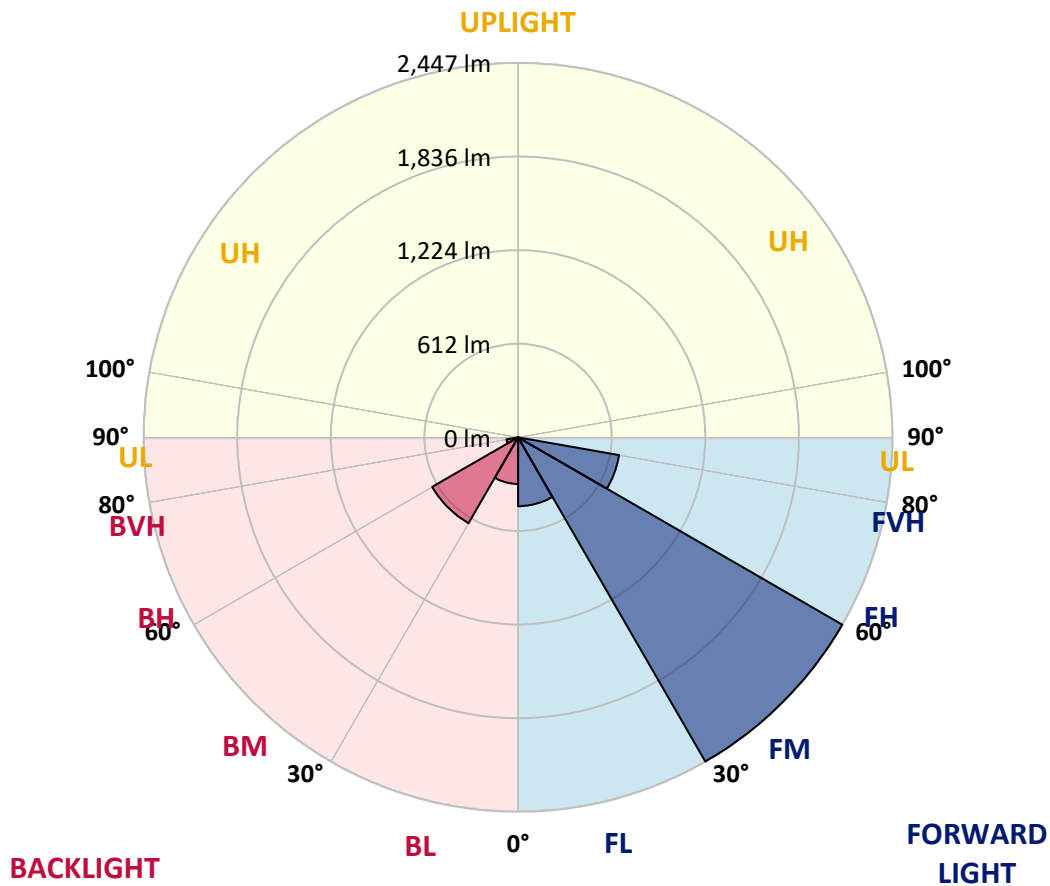
CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.8	9.8			
FM (30°-60°)	2447.4	53.2			
FH (60°-80°)	670.7	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	304.6	6.6	B1/500		
BM (30°-60°)	647.7	14.1	B1/1000		
BH (60°-80°)	77.2	1.7	B0/110		G0/110
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°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	875.4	881.0	890.2	910.0	926.7	937.8	942.8	941.5	934.7	929.8	919.9
5°	969.3	969.3	987.2	1032.3	1066.9	1088.6	1099.7	1092.9	1079.3	1057.7	1024.3
7.5°	1051.5	1054.6	1084.9	1149.1	1201.6	1232.5	1250.4	1246.7	1222.6	1181.2	1114.5
10°	1115.7	1119.4	1159.6	1238.1	1299.8	1331.4	1357.9	1360.4	1333.8	1278.8	1202.2
12.5°	1178.1	1181.8	1223.9	1299.2	1353.6	1366.6	1390.0	1399.3	1392.5	1353.6	1273.9
15°	1245.5	1254.1	1290.0	1346.2	1369.0	1353.6	1369.0	1385.7	1408.6	1404.9	1333.2
17.5°	1311.6	1317.8	1354.2	1374.0	1348.6	1308.5	1315.9	1335.7	1387.6	1438.2	1391.9
20°	1372.7	1381.4	1411.7	1385.7	1309.1	1246.7	1247.3	1273.3	1352.4	1458.6	1451.8
22.5°	1437.0	1450.0	1471.6	1398.7	1272.7	1197.9	1201.0	1224.5	1324.6	1477.8	1519.8
25°	1521.0	1533.4	1547.6	1430.8	1260.9	1173.8	1185.6	1207.2	1324.6	1510.5	1603.8
27.5°	1634.7	1643.3	1644.0	1490.7	1281.3	1177.5	1202.2	1226.9	1364.1	1576.0	1716.2
30°	1777.4	1791.0	1773.1	1584.0	1344.9	1226.9	1263.4	1294.3	1449.4	1686.6	1881.8
32.5°	1951.0	1970.2	1946.1	1722.4	1477.8	1397.5	1463.6	1481.5	1585.3	1846.6	2069.6
35°	2154.9	2170.9	2145.0	1913.9	1787.9	1802.7	1922.6	1899.7	1858.3	2043.7	2288.9
37.5°	2378.5	2393.3	2343.3	2204.3	2246.3	2310.6	2502.1	2423.6	2290.2	2297.6	2526.8
40°	2583.6	2599.7	2521.2	2520.0	2606.5	2723.9	2954.9	2846.8	2665.2	2630.0	2749.8
42.5°	2796.1	2807.3	2736.2	2688.0	2884.5	3126.0	3370.7	3224.9	2913.5	2875.2	3029.1
45°	3099.5	3123.0	2996.3	2770.8	3134.7	3588.8	3929.8	3645.0	3082.8	3051.9	3456.6
47.5°	3545.5	3562.8	3304.6	2822.7	3367.6	4165.2	4628.5	4189.9	3231.7	3161.3	4041.0
50°	3914.4	3926.1	3588.2	2879.5	3615.3	4786.7	5424.9	4836.1	3399.1	3342.3	4586.5
52.5°	4186.2	4230.7	3960.7	2996.3	3940.9	5517.5	6306.5	5601.6	3660.4	3692.0	5038.7
55°	4242.4	4303.0	4215.2	3068.0	4227.6	6262.0	7120.7	6286.7	3921.2	3957.0	5190.7
57.5°	3728.4	3776.6	3849.5	2778.8	4220.8	6603.0	7593.3	6514.0	3802.5	3548.6	4621.7
60°	2793.1	2826.4	2958.6	2124.0	3881.6	6301.5	7225.1	6127.3	3325.0	2707.8	3521.4
62.5°	1656.3	1671.1	1838.6	1375.8	3221.8	5426.7	5992.0	5287.1	2627.5	1821.3	2156.7
65°	635.7	629.5	757.4	679.0	2369.2	4322.7	4456.8	4030.5	1802.7	834.6	822.3
67.5°	98.2	93.9	126.6	200.8	1708.8	2995.7	2940.7	2904.9	1129.3	194.6	169.9
70°	22.2	22.2	27.2	59.3	1044.1	1760.1	1883.7	1795.9	722.8	41.4	22.2
72.5°	10.5	10.5	13.0	25.3	378.1	725.3	845.1	832.2	234.8	13.6	8.0
75°	3.7	4.3	4.3	5.6	22.9	37.7	86.5	61.8	14.8	0.0	0.0
77.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	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°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	898.3	894.0	877.9	856.3	835.3	816.7	797.6	774.7	758.0	738.9	732.7
5°	998.4	971.2	927.3	881.6	839.6	803.8	769.2	732.1	704.9	677.7	668.5
7.5°	1083.0	1042.8	971.8	903.2	845.8	795.1	745.1	694.4	654.9	622.7	612.9
10°	1159.0	1112.7	1017.5	932.9	860.6	801.9	741.4	677.7	626.4	588.1	578.9
12.5°	1224.5	1170.7	1056.4	955.1	866.8	799.4	740.7	690.1	643.7	599.9	588.1
15°	1279.5	1220.1	1089.2	969.9	857.5	768.5	717.3	709.2	705.5	657.3	634.5
17.5°	1333.2	1266.5	1115.7	976.7	831.6	714.2	677.1	713.6	752.5	721.0	691.9
20°	1389.4	1313.4	1142.9	978.0	788.3	653.0	646.8	704.3	753.7	743.8	716.6
22.5°	1455.5	1372.1	1176.9	977.4	733.9	601.1	624.6	686.4	726.5	725.9	704.3
25°	1551.3	1446.3	1222.6	981.1	674.6	561.0	599.9	656.1	688.8	687.6	669.7
27.5°	1653.8	1534.6	1281.9	990.3	624.0	537.5	570.8	614.7	643.1	641.9	626.4
30°	1797.8	1636.5	1338.8	990.9	587.5	525.1	538.7	569.0	596.2	593.1	581.3
32.5°	1972.6	1751.5	1386.3	955.7	564.7	513.4	505.4	520.8	541.8	537.5	534.4
35°	2183.9	1888.0	1427.1	878.5	529.5	489.9	468.3	471.4	486.2	488.7	487.4
37.5°	2424.9	2050.5	1477.8	776.6	481.9	455.9	426.9	424.4	433.1	441.1	447.3
40°	2662.7	2233.3	1546.3	673.4	438.6	412.7	384.9	378.7	382.4	396.6	409.6
42.5°	2930.2	2445.2	1620.5	585.1	409.0	365.1	338.6	326.8	337.3	360.2	375.6
45°	3315.7	2742.4	1692.8	514.6	396.6	323.1	287.3	286.0	297.8	327.4	344.7
47.5°	3856.9	3126.7	1740.3	459.6	396.0	290.4	247.7	255.1	268.7	297.8	317.5
50°	4384.5	3607.9	1687.8	417.6	383.0	268.7	218.1	232.9	246.5	271.8	292.2
52.5°	4702.7	3866.8	1483.3	378.1	342.9	258.9	189.0	215.0	217.5	240.3	261.9
55°	4669.3	3699.4	1136.1	316.9	283.6	244.6	158.8	194.0	195.2	212.5	231.1
57.5°	4052.7	3176.1	780.3	257.0	213.1	202.0	131.0	163.7	175.5	186.0	199.5
60°	3020.4	2317.4	347.8	208.8	135.3	136.5	111.8	123.6	141.5	153.8	165.6
62.5°	1779.9	1333.2	141.5	125.4	74.8	85.9	90.2	90.2	101.3	110.6	118.0
65°	672.8	466.4	57.5	63.0	38.9	40.2	53.1	65.5	74.1	82.2	92.1
67.5°	118.0	81.5	29.7	23.5	22.9	20.4	27.2	42.6	47.6	53.7	58.1
70°	19.8	16.7	12.4	11.7	10.5	11.1	17.9	30.3	33.4	35.2	37.1
72.5°	5.6	4.9	3.7	3.1	2.5	3.1	11.1	23.5	24.7	25.9	27.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	16.7	17.9	18.5	20.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.9	6.2	4.9
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°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	729.0	716.6	709.8	706.1	706.1	701.2	695.6	693.8	701.8	701.8	715.4
5°	656.7	646.8	635.7	628.9	618.4	620.3	614.1	613.5	621.5	625.2	639.4
7.5°	606.7	594.3	587.5	583.2	577.6	575.2	569.6	567.8	572.1	578.3	591.8
10°	573.3	571.5	570.8	573.9	573.9	570.8	565.9	562.8	564.0	575.8	591.2
12.5°	582.0	585.7	586.9	591.8	594.3	591.8	588.1	589.4	597.4	619.0	641.9
15°	619.6	616.6	615.3	617.8	619.6	617.2	615.9	625.2	653.0	683.9	709.8
17.5°	659.8	640.0	631.4	631.4	632.6	631.4	632.6	650.5	695.6	726.5	745.7
20°	680.2	643.7	630.2	627.1	629.5	630.2	634.5	654.9	704.3	725.9	730.2
22.5°	674.0	628.3	612.9	610.4	612.9	615.3	619.6	636.9	683.3	694.4	692.5
25°	643.1	598.0	585.7	585.7	591.2	590.6	592.5	604.8	643.1	649.9	646.8
27.5°	604.2	561.6	551.1	557.3	562.2	561.0	561.6	572.1	600.5	602.4	599.3
30°	564.7	527.6	517.7	525.1	531.9	530.7	531.3	541.8	559.7	557.9	553.5
32.5°	524.5	497.3	489.9	494.2	504.7	503.5	506.0	517.1	523.9	515.9	510.9
35°	487.4	473.2	467.7	470.1	478.2	480.0	484.4	491.8	491.8	481.9	473.2
37.5°	452.8	451.0	447.3	444.2	451.6	457.2	463.3	472.0	459.6	445.4	437.4
40°	420.7	428.8	423.8	415.8	420.1	428.1	440.5	447.3	432.5	418.2	404.7
42.5°	391.1	404.7	402.8	392.9	396.6	404.0	418.2	423.8	406.5	390.4	377.5
45°	362.6	381.8	383.0	370.7	374.4	381.8	398.5	400.3	378.1	360.8	351.5
47.5°	337.9	358.9	359.6	350.3	351.5	362.0	377.5	378.1	352.8	336.7	325.0
50°	314.5	338.6	340.4	332.4	333.6	346.0	358.9	356.5	329.3	312.6	302.1
52.5°	286.0	318.8	323.1	319.4	324.3	334.2	342.3	333.6	302.1	285.4	276.2
55°	255.1	297.8	307.0	304.6	310.1	318.2	320.0	314.5	274.9	258.2	249.6
57.5°	219.3	245.3	261.3	256.4	260.7	268.7	274.3	270.0	240.3	227.3	219.9
60°	181.6	198.9	202.6	194.6	190.9	205.1	218.1	212.5	187.2	179.2	170.5
62.5°	132.8	152.6	155.1	144.6	140.2	155.7	166.8	161.2	133.4	124.8	118.0
65°	106.3	124.8	129.7	119.9	117.4	129.1	135.9	122.3	102.6	93.3	85.9
67.5°	69.8	84.6	97.6	97.0	92.1	95.8	90.8	79.7	65.5	60.5	55.6
70°	43.2	51.9	59.9	63.0	62.4	61.2	54.4	46.3	42.0	40.2	37.7
72.5°	33.4	42.0	48.2	50.0	50.7	48.8	43.2	35.8	31.5	29.0	27.2
75°	24.7	31.5	36.4	38.9	40.2	38.9	33.4	28.4	24.1	22.2	20.4
77.5°	8.6	10.5	13.0	14.2	13.6	13.0	11.7	11.7	9.3	8.6	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



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 CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	730.9	742.0	762.4	780.9	800.7	821.1	843.3	866.2	876.7	875.4
5°	661.0	685.1	718.5	754.9	795.7	839.6	888.4	938.4	960.1	969.3
7.5°	617.2	651.2	695.0	741.4	795.1	857.5	931.0	1009.5	1041.0	1051.5
10°	622.7	662.3	698.7	743.8	801.3	882.2	973.6	1066.9	1104.0	1115.7
12.5°	667.8	676.5	686.4	723.4	795.7	900.7	1012.6	1123.8	1166.4	1178.1
15°	708.6	668.5	649.9	683.9	776.0	913.7	1052.1	1184.9	1231.9	1245.5
17.5°	710.5	649.9	608.5	635.1	743.8	919.3	1091.0	1247.3	1298.6	1311.6
20°	687.6	629.5	576.4	577.0	700.0	918.0	1123.2	1303.6	1361.0	1372.7
22.5°	654.2	605.4	550.5	531.3	653.0	915.6	1158.4	1363.5	1425.9	1437.0
25°	617.2	574.6	525.7	496.7	606.1	918.0	1207.8	1441.9	1510.5	1521.0
27.5°	577.0	540.6	506.6	483.1	566.5	927.3	1267.1	1542.0	1623.6	1634.7
30°	535.0	507.8	494.2	480.0	541.8	929.8	1331.4	1658.8	1762.0	1777.4
32.5°	493.6	478.8	479.4	481.9	518.3	912.5	1390.0	1788.5	1926.3	1951.0
35°	455.3	451.0	463.3	475.7	484.4	868.0	1441.3	1941.7	2129.5	2154.9
37.5°	422.6	426.3	441.7	454.1	447.3	805.0	1509.3	2133.3	2356.9	2378.5
40°	391.1	400.3	418.2	423.8	418.9	731.5	1590.8	2318.0	2554.0	2583.6
42.5°	362.0	368.8	394.2	395.4	410.8	656.7	1669.3	2516.9	2780.7	2796.1
45°	338.6	337.3	363.3	371.3	421.3	573.9	1745.9	2781.9	3077.2	3099.5
47.5°	315.7	314.5	320.6	357.1	425.7	497.3	1821.9	3169.9	3507.2	3545.5
50°	294.1	295.9	276.8	350.3	402.2	438.6	1856.5	3528.9	3898.3	3914.4
52.5°	274.9	268.1	234.8	328.0	352.1	383.0	1758.2	3692.0	4140.5	4186.2
55°	247.7	210.1	193.4	266.3	278.0	334.2	1440.1	3597.4	4161.5	4242.4
57.5°	211.9	165.0	164.3	196.5	196.5	310.1	922.4	3073.5	3586.3	3728.4
60°	163.1	127.9	135.9	136.5	126.0	226.1	517.7	2226.5	2651.6	2793.1
62.5°	116.1	97.6	102.6	81.5	72.3	113.1	248.4	1281.9	1636.5	1656.3
65°	77.8	66.1	53.7	45.1	44.5	48.2	102.6	463.3	563.4	635.7
67.5°	51.3	40.2	28.4	28.4	32.1	32.1	38.9	76.6	107.5	98.2
70°	33.4	27.8	17.9	17.3	21.0	21.0	19.8	21.0	22.2	22.2
72.5°	24.7	21.0	10.5	9.3	11.7	12.4	11.1	10.5	10.5	10.5
75°	18.5	14.8	6.2	4.3	5.6	7.4	6.2	4.3	4.3	3.7
77.5°	7.4	5.6	2.5	1.9	3.1	4.3	3.7	1.9	1.2	1.2
80°	0.6	1.2	1.2	1.2	1.9	2.5	3.1	1.2	0.6	0.6
82.5°	0.0	0.6	0.6	0.6	1.2	1.9	2.5	1.2	0.6	0.6
85°	0.0	0.0	0.0	0.0	1.2	1.9	1.2	0.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.9	1.2	0.6	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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