

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: P636778

Luminaire Tested: GWS-SA4B-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636778
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-SA4B-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7722 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

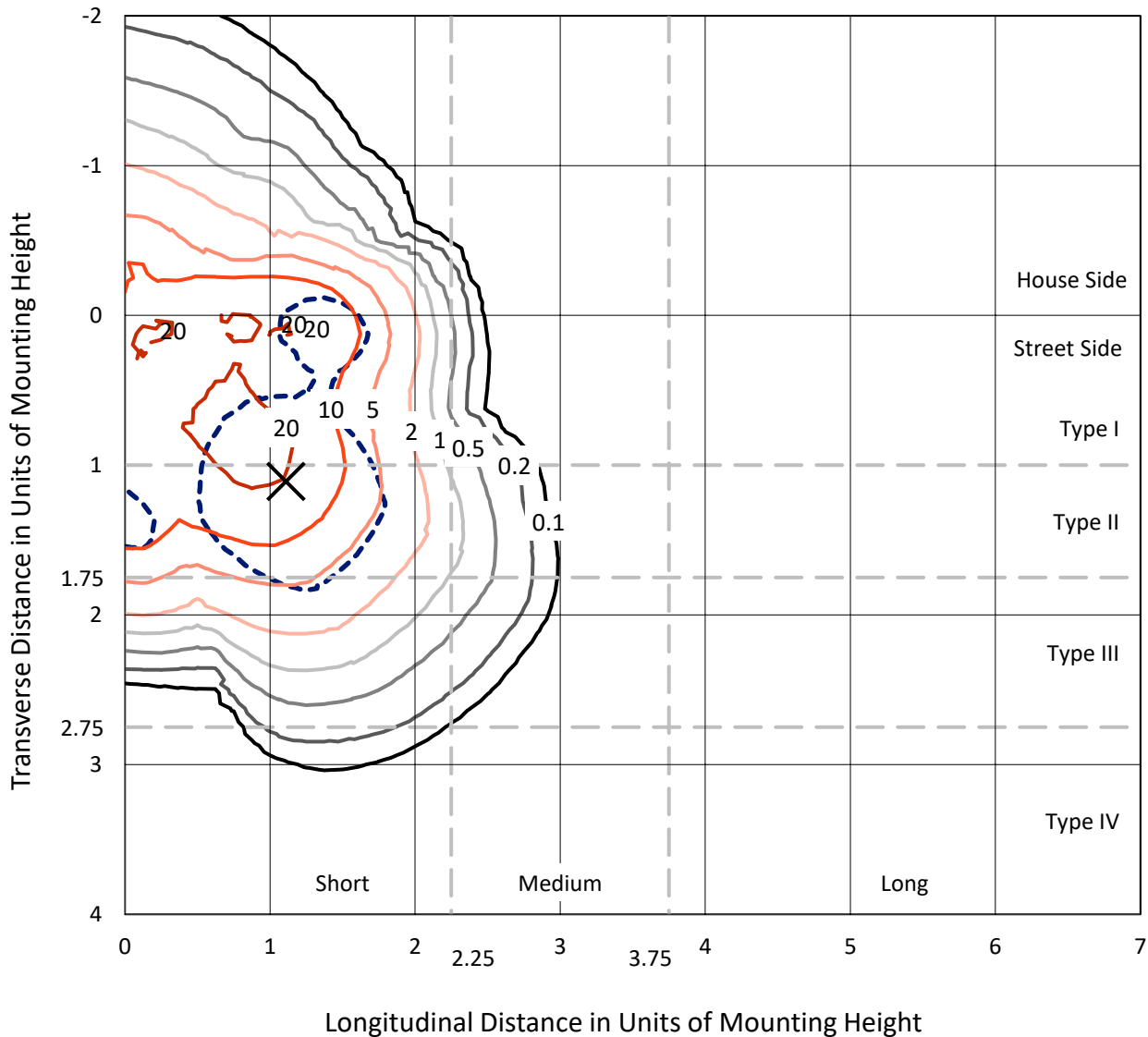
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

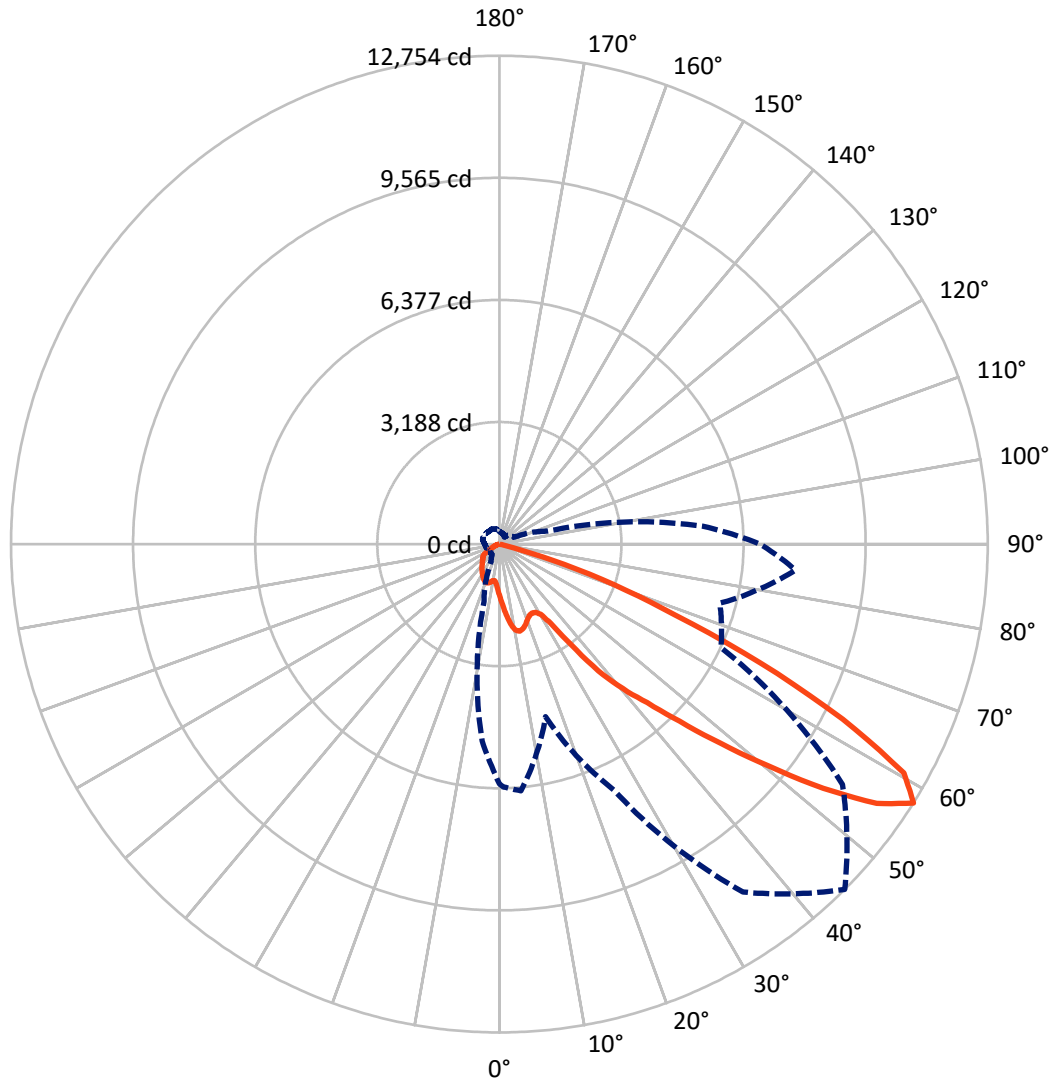
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.2 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	1729.2	0.0	1729.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	5992.8	0.0	5992.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	7722.0	0.0	7722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.7
10°-20°	431.9	5.6
20°-30°	701.6	9.1
30°-40°	1084.1	14.0
40°-50°	1738.4	22.5
50°-60°	2375.9	30.8
60°-70°	1150.7	14.9
70°-80°	105.4	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°	7722.0	100.0
0°-180°	7722.0	100.0

Coefficient of Utilization



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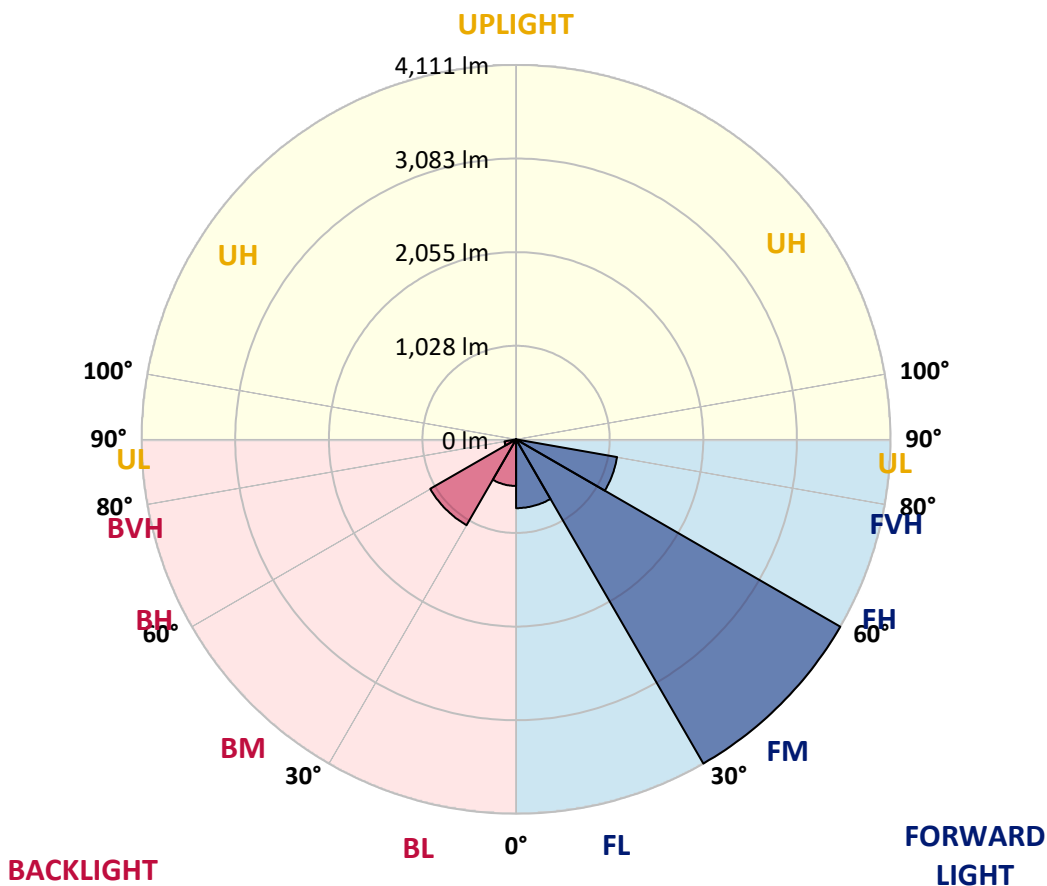
CATALOG NUMBER: GWS-SA4B-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.4	9.8			
FM (30°-60°)	4110.6	53.2			
FH (60°-80°)	1126.5	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	511.6	6.6	B2/1000		
BM (30°-60°)	1087.9	14.1	B2/2500		
BH (60°-80°)	129.6	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: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1470.3	1479.7	1495.2	1528.4	1556.4	1575.1	1583.4	1581.4	1569.9	1561.6	1545.0
5°	1628.0	1628.0	1658.1	1733.9	1792.0	1828.3	1847.0	1835.6	1812.7	1776.4	1720.4
7.5°	1766.1	1771.2	1822.1	1930.0	2018.2	2070.1	2100.2	2093.9	2053.5	1984.0	1871.9
10°	1874.0	1880.2	1947.6	2079.4	2183.2	2236.1	2280.7	2284.9	2240.3	2147.9	2019.2
12.5°	1978.8	1985.0	2055.6	2182.1	2273.5	2295.2	2334.7	2350.2	2338.8	2273.5	2139.6
15°	2091.9	2106.4	2166.6	2261.0	2299.4	2273.5	2299.4	2327.4	2365.8	2359.6	2239.2
17.5°	2202.9	2213.3	2274.5	2307.7	2265.2	2197.7	2210.2	2243.4	2330.5	2415.6	2337.8
20°	2305.6	2320.1	2371.0	2327.4	2198.7	2093.9	2095.0	2138.6	2271.4	2449.9	2438.4
22.5°	2413.5	2435.3	2471.6	2349.2	2137.5	2012.0	2017.2	2056.6	2224.7	2482.0	2552.6
25°	2554.7	2575.4	2599.3	2403.2	2117.8	1971.5	1991.2	2027.5	2224.7	2537.0	2693.7
27.5°	2745.6	2760.1	2761.1	2503.8	2152.1	1977.7	2019.2	2060.7	2291.1	2647.0	2882.5
30°	2985.3	3008.1	2978.0	2660.5	2258.9	2060.7	2122.0	2173.8	2434.3	2832.7	3160.6
32.5°	3276.8	3309.0	3268.5	2892.9	2482.0	2347.1	2458.2	2488.2	2662.6	3101.5	3476.1
35°	3619.3	3646.2	3602.7	3214.6	3002.9	3027.8	3229.1	3190.7	3121.2	3432.5	3844.4
37.5°	3994.9	4019.8	3935.7	3702.3	3772.8	3880.7	4202.4	4070.6	3846.5	3859.0	4243.9
40°	4339.4	4366.4	4234.6	4232.5	4377.8	4574.9	4963.0	4781.4	4476.4	4417.2	4618.5
42.5°	4696.3	4715.0	4595.7	4514.7	4844.7	5250.4	5661.3	5416.4	4893.5	4829.1	5087.5
45°	5205.8	5245.2	5032.5	4653.8	5265.0	6027.6	6600.4	6122.0	5177.8	5125.9	5805.6
47.5°	5955.0	5984.0	5550.3	4740.9	5656.1	6995.7	7773.9	7037.2	5427.9	5309.6	6787.2
50°	6574.4	6594.2	6026.6	4836.4	6072.2	8039.6	9111.5	8122.6	5709.1	5613.6	7703.4
52.5°	7031.0	7105.7	6652.3	5032.5	6619.1	9267.1	10592.2	9408.2	6148.0	6200.9	8462.9
55°	7125.4	7227.1	7079.8	5152.9	7100.5	10517.5	11959.8	10559.0	6585.9	6646.0	8718.2
57.5°	6262.1	6343.1	6465.5	4667.3	7089.1	11090.2	12753.6	10940.8	6386.6	5960.2	7762.5
60°	4691.1	4747.2	4969.2	3567.4	6519.5	10583.9	12135.1	10291.2	5584.5	4547.9	5914.5
62.5°	2781.9	2806.8	3088.0	2310.8	5411.3	9114.6	10064.0	8880.1	4413.1	3058.9	3622.4
65°	1067.7	1057.3	1272.1	1140.4	3979.3	7260.3	7485.5	6769.5	3027.8	1401.8	1381.1
67.5°	165.0	157.7	212.7	337.2	2870.1	5031.5	4939.1	4879.0	1896.8	326.9	285.3
70°	37.4	37.4	45.7	99.6	1753.6	2956.2	3163.7	3016.4	1214.0	69.5	37.4
72.5°	17.6	17.6	21.8	42.5	635.0	1218.2	1419.5	1397.7	394.3	22.8	13.5
75°	6.2	7.3	7.3	9.3	38.4	63.3	145.3	103.8	24.9	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	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°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1508.7	1501.5	1474.5	1438.2	1402.9	1371.8	1339.6	1301.2	1273.2	1241.0	1230.6
5°	1676.8	1631.2	1557.5	1480.7	1410.1	1350.0	1291.9	1229.6	1183.9	1138.3	1122.7
7.5°	1819.0	1751.5	1632.2	1517.0	1420.5	1335.4	1251.4	1166.3	1099.9	1045.9	1029.3
10°	1946.6	1868.8	1709.0	1566.8	1445.4	1346.8	1245.2	1138.3	1052.2	987.8	972.3
12.5°	2056.6	1966.3	1774.4	1604.2	1455.8	1342.7	1244.1	1159.0	1081.2	1007.5	987.8
15°	2148.9	2049.3	1829.3	1629.1	1440.2	1290.8	1204.7	1191.2	1185.0	1104.0	1065.6
17.5°	2239.2	2127.1	1874.0	1640.5	1396.7	1199.5	1137.2	1198.5	1263.8	1210.9	1162.1
20°	2333.6	2206.0	1919.6	1642.6	1324.0	1096.8	1086.4	1182.9	1265.9	1249.3	1203.7
22.5°	2444.7	2304.6	1976.7	1641.5	1232.7	1009.6	1049.0	1152.8	1220.3	1219.2	1182.9
25°	2605.5	2429.1	2053.5	1647.8	1133.1	942.2	1007.5	1102.0	1157.0	1154.9	1124.8
27.5°	2777.7	2577.5	2153.1	1663.3	1048.0	902.7	958.8	1032.4	1080.2	1078.1	1052.2
30°	3019.5	2748.7	2248.6	1664.4	986.8	882.0	904.8	955.7	1001.3	996.1	976.4
32.5°	3313.2	2941.7	2328.4	1605.2	948.4	862.3	848.8	874.7	910.0	902.7	897.6
35°	3668.0	3171.0	2396.9	1475.5	889.3	822.8	786.5	791.7	816.6	820.8	818.7
37.5°	4072.7	3443.9	2482.0	1304.3	809.4	765.8	717.0	712.9	727.4	740.9	751.2
40°	4472.2	3751.0	2597.2	1131.0	736.7	693.1	646.4	636.1	642.3	666.2	688.0
42.5°	4921.5	4107.0	2721.7	982.6	686.9	613.2	568.6	548.9	566.5	604.9	630.9
45°	5569.0	4606.1	2843.1	864.3	666.2	542.7	482.5	480.4	500.1	549.9	579.0
47.5°	6477.9	5251.5	2923.0	772.0	665.1	487.7	416.1	428.5	451.4	500.1	533.3
50°	7364.1	6059.8	2834.8	701.4	643.3	451.4	366.3	391.2	414.0	456.6	490.8
52.5°	7898.5	6494.5	2491.4	635.0	575.9	434.8	317.5	361.1	365.2	403.6	440.0
55°	7842.4	6213.3	1908.2	532.3	476.3	410.9	266.7	325.8	327.9	356.9	388.1
57.5°	6806.9	5334.5	1310.5	431.7	358.0	339.3	220.0	275.0	294.7	312.3	335.2
60°	5073.0	3892.2	584.2	350.7	227.2	229.3	187.8	207.5	237.6	258.4	278.1
62.5°	2989.4	2239.2	237.6	210.6	125.6	144.2	151.5	151.5	170.2	185.7	198.2
65°	1130.0	783.4	96.5	105.8	65.4	67.4	89.2	110.0	124.5	138.0	154.6
67.5°	198.2	137.0	49.8	39.4	38.4	34.2	45.7	71.6	79.9	90.3	97.5
70°	33.2	28.0	20.8	19.7	17.6	18.7	30.1	50.8	56.0	59.1	62.3
72.5°	9.3	8.3	6.2	5.2	4.2	5.2	18.7	39.4	41.5	43.6	46.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	28.0	30.1	31.1	34.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	8.3	10.4	8.3
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°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1224.4	1203.7	1192.2	1186.0	1186.0	1177.7	1168.4	1165.3	1178.8	1178.8	1201.6
5°	1103.0	1086.4	1067.7	1056.3	1038.7	1041.8	1031.4	1030.4	1043.9	1050.1	1074.0
7.5°	1019.0	998.2	986.8	979.5	970.2	966.0	956.7	953.6	960.8	971.2	994.1
10°	962.9	959.8	958.8	964.0	964.0	958.8	950.5	945.3	947.4	967.1	993.0
12.5°	977.5	983.7	985.8	994.1	998.2	994.1	987.8	989.9	1003.4	1039.7	1078.1
15°	1040.7	1035.6	1033.5	1037.6	1040.7	1036.6	1034.5	1050.1	1096.8	1148.7	1192.2
17.5°	1108.2	1075.0	1060.5	1060.5	1062.5	1060.5	1062.5	1092.6	1168.4	1220.3	1252.4
20°	1142.4	1081.2	1058.4	1053.2	1057.3	1058.4	1065.6	1099.9	1182.9	1219.2	1226.5
22.5°	1132.1	1055.3	1029.3	1025.2	1029.3	1033.5	1040.7	1069.8	1147.6	1166.3	1163.2
25°	1080.2	1004.4	983.7	983.7	993.0	992.0	995.1	1015.8	1080.2	1091.6	1086.4
27.5°	1014.8	943.2	925.6	935.9	944.2	942.2	943.2	960.8	1008.6	1011.7	1006.5
30°	948.4	886.1	869.5	882.0	893.4	891.3	892.4	910.0	940.1	937.0	929.7
32.5°	881.0	835.3	822.8	830.1	847.7	845.7	849.8	868.5	879.9	866.4	858.1
35°	818.7	794.8	785.5	789.6	803.1	806.2	813.5	826.0	826.0	809.4	794.8
37.5°	760.6	757.5	751.2	746.1	758.5	767.8	778.2	792.8	772.0	748.1	734.6
40°	706.6	720.1	711.8	698.3	705.6	719.1	739.8	751.2	726.3	702.5	679.6
42.5°	656.8	679.6	676.5	659.9	666.2	678.6	702.5	711.8	682.8	655.8	634.0
45°	609.1	641.3	643.3	622.6	628.8	641.3	669.3	672.4	635.0	606.0	590.4
47.5°	567.6	602.9	603.9	588.3	590.4	608.1	634.0	635.0	592.5	565.5	545.8
50°	528.2	568.6	571.7	558.2	560.3	581.1	602.9	598.7	553.1	525.0	507.4
52.5°	480.4	535.4	542.7	536.5	544.8	561.4	574.8	560.3	507.4	479.4	463.8
55°	428.5	500.1	515.7	511.6	520.9	534.4	537.5	528.2	461.7	433.7	419.2
57.5°	368.4	411.9	438.9	430.6	437.9	451.4	460.7	453.4	403.6	381.8	369.4
60°	305.1	334.1	340.3	326.9	320.6	344.5	366.3	356.9	314.4	300.9	286.4
62.5°	223.1	256.3	260.4	242.8	235.5	261.5	280.2	270.8	224.1	209.6	198.2
65°	178.5	209.6	217.9	201.3	197.2	216.9	228.3	205.5	172.2	156.7	144.2
67.5°	117.3	142.2	163.9	162.9	154.6	160.8	152.5	133.9	110.0	101.7	93.4
70°	72.6	87.2	100.7	105.8	104.8	102.7	91.3	77.8	70.6	67.4	63.3
72.5°	56.0	70.6	80.9	84.0	85.1	82.0	72.6	60.2	52.9	48.8	45.7
75°	41.5	52.9	61.2	65.4	67.4	65.4	56.0	47.7	40.5	37.4	34.2
77.5°	14.5	17.6	21.8	23.9	22.8	21.8	19.7	19.7	15.6	14.5	12.5
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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CATALOG NUMBER: GWS-SA4B-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1227.5	1246.2	1280.4	1311.6	1344.8	1379.0	1416.4	1454.8	1472.4	1470.3
5°	1110.3	1150.7	1206.8	1268.0	1336.5	1410.1	1492.1	1576.2	1612.5	1628.0
7.5°	1036.6	1093.7	1167.3	1245.2	1335.4	1440.2	1563.7	1695.5	1748.4	1766.1
10°	1045.9	1112.3	1173.6	1249.3	1345.8	1481.7	1635.3	1792.0	1854.3	1874.0
12.5°	1121.7	1136.2	1152.8	1215.1	1336.5	1512.9	1700.7	1887.5	1959.1	1978.8
15°	1190.2	1122.7	1091.6	1148.7	1303.3	1534.7	1767.1	1990.2	2069.0	2091.9
17.5°	1193.3	1091.6	1022.1	1066.7	1249.3	1544.0	1832.5	2095.0	2181.1	2202.9
20°	1154.9	1057.3	968.1	969.1	1175.6	1541.9	1886.4	2189.4	2285.9	2305.6
22.5°	1098.9	1016.9	924.5	892.4	1096.8	1537.8	1945.6	2290.1	2394.9	2413.5
25°	1036.6	965.0	883.0	834.3	1017.9	1541.9	2028.6	2421.8	2537.0	2554.7
27.5°	969.1	907.9	850.9	811.4	951.5	1557.5	2128.2	2589.9	2726.9	2745.6
30°	898.6	852.9	830.1	806.2	910.0	1561.6	2236.1	2786.0	2959.3	2985.3
32.5°	829.1	804.2	805.2	809.4	870.6	1532.6	2334.7	3003.9	3235.3	3276.8
35°	764.7	757.5	778.2	799.0	813.5	1457.9	2420.8	3261.3	3576.7	3619.3
37.5°	709.7	716.0	741.9	762.7	751.2	1352.0	2534.9	3582.9	3958.6	3994.9
40°	656.8	672.4	702.5	711.8	703.5	1228.6	2671.9	3893.2	4289.6	4339.4
42.5°	608.1	619.5	662.0	664.1	690.0	1103.0	2803.7	4227.3	4670.4	4696.3
45°	568.6	566.5	610.1	623.6	707.7	964.0	2932.4	4672.5	5168.5	5205.8
47.5°	530.2	528.2	538.5	599.8	714.9	835.3	3060.0	5324.1	5890.6	5955.0
50°	493.9	497.0	464.9	588.3	675.5	736.7	3118.1	5927.0	6547.5	6574.4
52.5°	461.7	450.3	394.3	551.0	591.5	643.3	2953.1	6200.9	6954.2	7031.0
55°	416.1	352.8	324.8	447.2	466.9	561.4	2418.7	6042.1	6989.5	7125.4
57.5°	355.9	277.0	276.0	330.0	330.0	520.9	1549.2	5162.2	6023.5	6262.1
60°	273.9	214.8	228.3	229.3	211.7	379.8	869.5	3739.6	4453.5	4691.1
62.5°	195.1	163.9	172.2	137.0	121.4	189.9	417.1	2153.1	2748.7	2781.9
65°	130.7	111.0	90.3	75.7	74.7	80.9	172.2	778.2	946.3	1067.7
67.5°	86.1	67.4	47.7	47.7	54.0	54.0	65.4	128.7	180.5	165.0
70°	56.0	46.7	30.1	29.1	35.3	35.3	33.2	35.3	37.4	37.4
72.5°	41.5	35.3	17.6	15.6	19.7	20.8	18.7	17.6	17.6	17.6
75°	31.1	24.9	10.4	7.3	9.3	12.5	10.4	7.3	7.3	6.2
77.5°	12.5	9.3	4.2	3.1	5.2	7.3	6.2	3.1	2.1	2.1
80°	1.0	2.1	2.1	2.1	3.1	4.2	5.2	2.1	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	2.1	3.1	4.2	2.1	1.0	1.0
85°	0.0	0.0	0.0	0.0	2.1	3.1	2.1	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	2.1	1.0	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)