

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: P633749

Luminaire Tested: GWS-SA2F-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633749
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8579.7 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

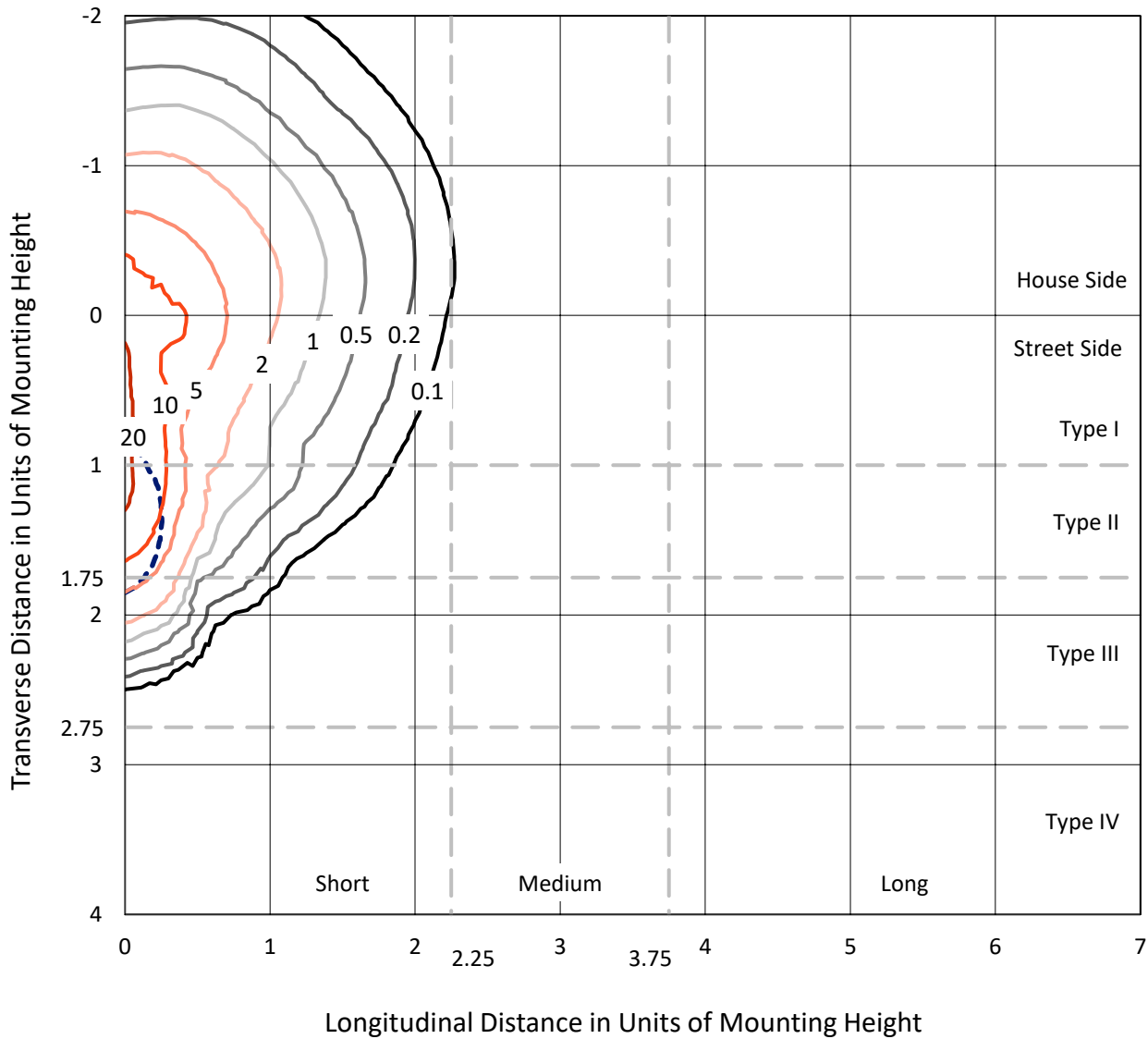
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

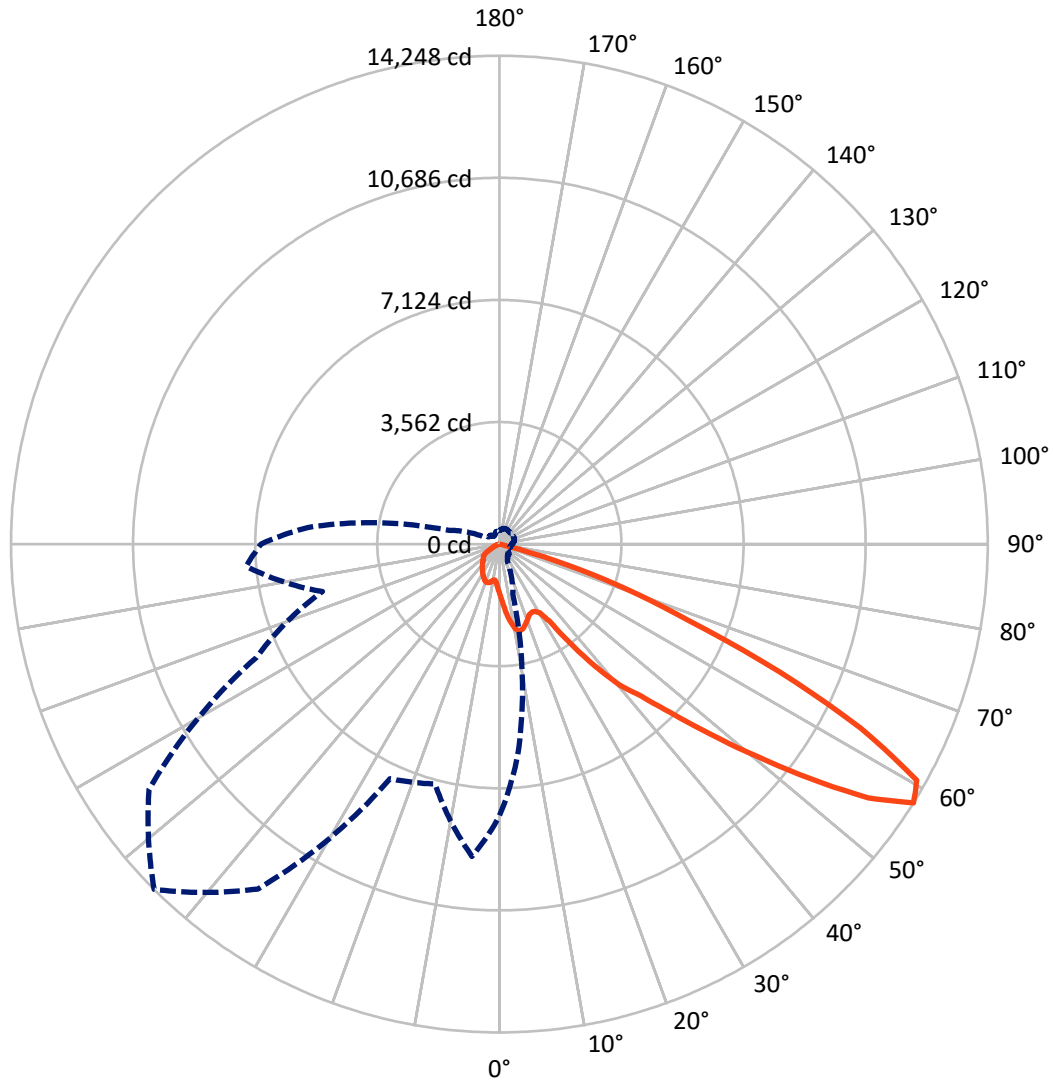
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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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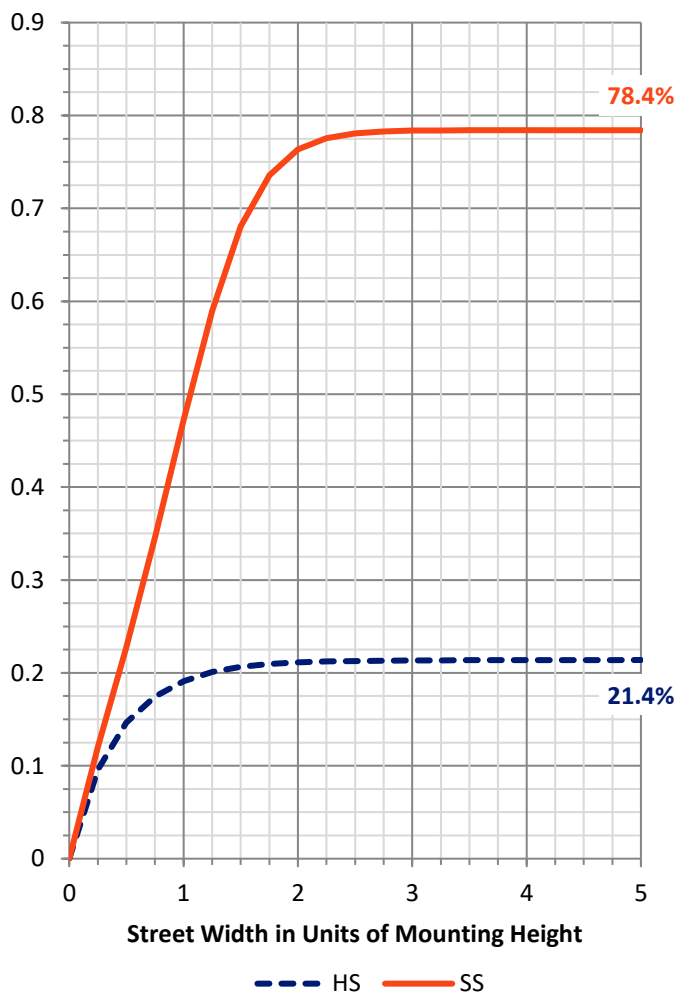
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.3	0.0	1848.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6731.3	0.0	6731.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	8579.7	0.0	8579.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	1.7
10°-20°	474.1	5.5
20°-30°	769.4	9.0
30°-40°	1180.9	13.8
40°-50°	1886.0	22.0
50°-60°	2640.8	30.8
60°-70°	1354.0	15.8
70°-80°	130.4	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°	8579.7	100.0
0°-180°	8579.7	100.0

Coefficient of Utilization



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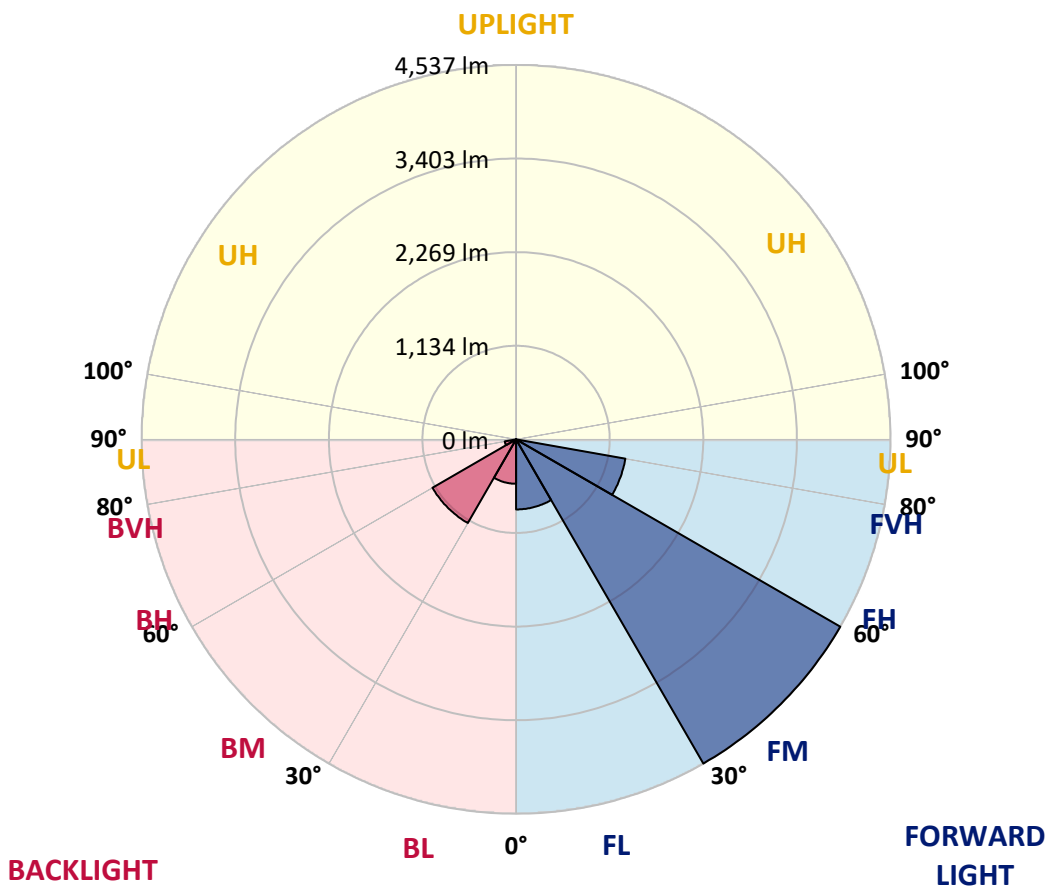
CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.4	9.9			
FM (30°-60°)	4537.2	52.9			
FH (60°-80°)	1344.7	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	538.2	6.3	B2/1000		
BM (30°-60°)	1170.5	13.6	B2/2500		
BH (60°-80°)	139.6	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: 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°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1619.5	1616.1	1604.6	1565.6	1541.5	1503.7	1476.2	1440.6	1401.6	1377.5	1353.4
5°	1791.6	1782.4	1751.4	1662.0	1593.2	1518.6	1459.0	1393.6	1323.6	1277.7	1235.3
7.5°	1956.8	1943.0	1901.7	1750.3	1645.9	1539.3	1454.4	1359.2	1260.5	1191.7	1139.0
10°	2118.5	2087.5	2022.1	1836.3	1695.2	1566.8	1467.0	1358.0	1242.2	1155.0	1096.5
12.5°	2251.5	2228.6	2139.1	1917.8	1736.5	1572.5	1449.8	1348.9	1270.9	1212.4	1158.5
15°	2366.2	2341.0	2256.1	1991.2	1772.1	1549.6	1377.5	1289.2	1301.8	1324.8	1278.9
17.5°	2471.8	2445.4	2353.6	2052.0	1785.9	1493.4	1276.6	1234.2	1304.1	1390.1	1372.9
20°	2580.7	2550.9	2438.5	2101.3	1781.3	1405.1	1174.5	1187.1	1285.8	1384.4	1393.6
22.5°	2708.0	2677.1	2546.3	2164.4	1777.8	1299.5	1086.2	1145.8	1251.4	1335.1	1351.1
25°	2876.6	2839.9	2696.6	2257.3	1787.0	1203.2	1023.1	1105.7	1192.9	1268.6	1277.7
27.5°	3099.2	3052.1	2869.8	2372.0	1806.5	1127.5	995.6	1050.6	1118.3	1186.0	1194.0
30°	3389.3	3329.7	3068.2	2471.8	1797.3	1074.7	977.2	995.6	1035.7	1090.8	1091.9
32.5°	3728.8	3647.4	3290.7	2557.8	1718.2	1035.7	952.0	939.4	948.6	991.0	999.0
35°	4128.0	4022.5	3536.2	2639.2	1573.7	960.0	906.1	863.7	860.2	880.9	900.4
37.5°	4585.6	4459.5	3845.8	2743.6	1402.8	880.9	838.4	796.0	777.7	788.0	817.8
40°	5007.7	4867.8	4169.3	2869.8	1228.4	809.8	759.3	715.7	693.9	697.4	734.1
42.5°	5503.2	5358.7	4565.0	3034.9	1083.9	761.6	676.7	632.0	603.3	619.4	661.8
45°	6255.7	6091.6	5141.9	3178.3	969.2	750.1	604.5	541.4	527.6	555.1	605.6
47.5°	7283.4	7082.6	5934.5	3265.5	871.7	760.5	554.0	468.0	471.4	502.4	552.8
50°	8303.0	8086.2	6850.9	3150.8	791.4	739.8	528.8	410.6	432.4	459.9	505.8
52.5°	9003.8	8721.7	7297.1	2819.3	718.0	661.8	526.5	356.7	398.0	407.2	446.2
55°	9031.4	8683.8	7068.9	2222.9	618.2	558.6	502.4	312.0	360.2	363.6	396.9
57.5°	7916.5	7602.2	6177.7	1526.6	549.4	409.5	400.3	273.0	295.9	324.6	345.2
60°	6022.8	5755.6	4620.1	699.7	417.5	260.4	274.1	235.1	221.4	263.8	284.5
62.5°	3688.7	3517.8	2771.1	309.7	266.1	138.8	166.3	187.0	166.3	182.4	199.6
65°	1464.7	1389.0	1051.8	131.9	109.0	70.0	75.7	109.0	117.0	128.5	144.5
67.5°	254.6	240.9	176.6	58.5	44.7	42.4	36.7	50.5	71.1	79.1	91.8
70°	33.3	32.1	28.7	24.1	22.9	20.6	16.1	32.1	48.2	50.5	58.5
72.5°	8.0	6.9	6.9	5.7	6.9	2.3	2.3	17.2	34.4	35.6	41.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	21.8	24.1	28.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1333.9	1311.0	1303.0	1291.5	1276.6	1281.2	1260.5	1253.7	1264.0	1277.7	1274.3
5°	1212.4	1187.1	1169.9	1143.5	1139.0	1128.6	1121.8	1112.6	1124.0	1140.1	1143.5
7.5°	1116.0	1094.2	1077.0	1069.0	1063.3	1058.7	1044.9	1038.0	1038.0	1044.9	1050.6
10°	1074.7	1058.7	1055.2	1057.5	1066.7	1065.5	1052.9	1043.8	1032.3	1026.6	1033.4
12.5°	1132.1	1105.7	1101.1	1102.3	1113.7	1112.6	1098.8	1087.3	1085.0	1087.3	1109.1
15°	1229.6	1189.4	1159.6	1153.9	1159.6	1157.3	1147.0	1140.1	1143.5	1176.8	1213.5
17.5°	1316.7	1254.8	1200.9	1180.2	1179.1	1175.7	1165.3	1163.0	1180.2	1242.2	1296.1
20°	1342.0	1281.2	1204.3	1178.0	1172.2	1168.8	1157.3	1160.7	1182.5	1257.1	1303.0
22.5°	1308.7	1250.2	1169.9	1143.5	1139.0	1137.8	1126.3	1130.9	1149.3	1214.7	1252.5
25°	1245.6	1196.3	1112.6	1089.6	1089.6	1087.3	1077.0	1079.3	1090.8	1148.1	1184.8
27.5°	1168.8	1121.8	1051.8	1028.8	1032.3	1035.7	1023.1	1019.7	1028.8	1082.8	1104.5
30°	1080.5	1047.2	992.1	971.5	970.3	984.1	966.9	962.3	974.9	1017.4	1022.0
32.5°	994.4	978.4	939.4	923.3	924.5	926.8	917.6	917.6	929.1	952.0	950.9
35°	910.7	900.4	893.5	882.0	880.9	876.3	876.3	878.6	891.2	899.2	884.3
37.5°	830.4	840.7	848.8	837.3	828.1	828.1	828.1	838.4	849.9	846.5	821.2
40°	759.3	781.1	806.3	793.7	771.9	770.8	775.4	792.6	809.8	789.1	766.2
42.5°	698.5	726.0	761.6	754.7	730.6	727.2	730.6	752.4	766.2	739.8	714.6
45°	638.9	673.3	715.7	715.7	689.3	685.9	687.0	715.7	723.7	692.8	660.7
47.5°	588.4	626.3	671.0	671.0	649.2	642.3	648.0	677.9	683.6	640.0	610.2
50°	540.2	581.5	630.8	627.4	612.5	606.8	617.1	649.2	642.3	594.1	563.2
52.5°	479.4	523.0	590.7	594.1	586.1	587.3	599.9	620.5	601.0	542.5	516.1
55°	424.4	469.1	536.8	555.1	555.1	554.0	559.7	575.8	559.7	489.8	457.6
57.5°	364.7	402.6	458.8	463.4	466.8	454.2	462.2	484.0	476.0	416.4	398.0
60°	299.4	331.5	363.6	367.0	352.1	325.7	340.7	365.9	371.6	326.9	306.2
62.5°	212.2	243.2	281.0	281.0	266.1	239.7	259.2	281.0	273.0	227.1	214.5
65°	158.3	187.0	215.6	228.3	215.6	197.3	212.2	228.3	215.6	177.8	159.4
67.5°	102.1	121.6	138.8	149.1	151.4	149.1	156.0	151.4	136.5	111.3	100.9
70°	61.9	72.3	81.4	90.6	97.5	100.9	104.4	94.1	79.1	65.4	61.9
72.5°	44.7	53.9	61.9	68.8	76.8	79.1	79.1	72.3	58.5	45.9	42.4
75°	31.0	39.0	45.9	50.5	57.3	59.6	59.6	53.9	43.6	33.3	29.8
77.5°	1.1	8.0	8.0	6.9	9.2	11.5	11.5	13.8	12.6	9.2	8.0
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°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1281.2	1322.5	1333.9	1376.4	1414.2	1452.1	1498.0	1525.5	1566.8	1595.5	1611.5
5°	1155.0	1189.4	1230.7	1293.8	1359.2	1431.4	1518.6	1594.3	1689.5	1759.5	1782.4
7.5°	1063.3	1108.0	1156.2	1235.3	1324.8	1421.1	1543.8	1667.7	1813.4	1908.6	1969.4
10°	1046.1	1091.9	1156.2	1234.2	1328.2	1438.3	1588.6	1749.2	1931.5	2047.4	2116.2
12.5°	1128.6	1178.0	1205.5	1241.0	1312.2	1434.9	1627.6	1831.7	2046.2	2172.4	2245.8
15°	1250.2	1293.8	1249.1	1204.3	1250.2	1398.2	1649.4	1900.6	2147.2	2292.8	2368.5
17.5°	1333.9	1337.4	1239.9	1144.7	1157.3	1331.6	1657.4	1969.4	2255.0	2407.5	2486.7
20°	1325.9	1298.4	1199.7	1094.2	1055.2	1245.6	1648.2	2030.2	2363.9	2523.4	2601.4
22.5°	1264.0	1231.9	1148.1	1044.9	969.2	1143.5	1632.2	2085.2	2463.7	2644.9	2718.4
25°	1189.4	1155.0	1086.2	995.6	914.1	1044.9	1619.5	2160.9	2589.9	2803.2	2860.6
27.5°	1102.3	1072.4	1013.9	948.6	891.2	970.3	1616.1	2260.7	2742.4	2995.9	3036.1
30°	1017.4	989.8	944.0	906.1	882.0	926.8	1604.6	2367.4	2924.8	3217.3	3260.9
32.5°	935.9	908.4	879.7	874.0	875.1	910.7	1565.6	2472.9	3141.6	3538.4	3570.6
35°	866.0	833.9	822.4	836.2	861.4	883.2	1455.5	2560.1	3374.4	3888.3	3914.7
37.5°	799.4	767.3	766.2	799.4	827.0	840.7	1325.9	2646.1	3688.7	4243.8	4277.1
40°	738.7	706.5	718.0	758.2	779.9	786.8	1168.8	2776.9	4021.3	4618.9	4600.6
42.5°	687.0	653.8	660.7	712.3	731.8	750.1	1024.3	2885.8	4341.3	4974.5	4968.7
45°	636.6	611.3	606.8	663.0	680.2	753.6	918.7	2969.5	4753.1	5427.5	5436.7
47.5°	587.3	567.8	568.9	593.0	635.4	770.8	829.3	3024.6	5350.7	6145.5	5986.1
50°	542.5	527.6	540.2	512.7	606.8	749.0	752.4	3013.1	6018.2	6833.7	6513.7
52.5°	493.2	489.8	495.5	429.0	560.9	660.7	680.2	2860.6	6331.4	7304.0	7121.6
55°	442.7	441.6	395.7	342.9	469.1	527.6	582.7	2386.9	6321.0	7554.0	7775.4
57.5°	383.1	373.9	300.5	279.9	364.7	367.0	531.1	1563.3	5601.9	6955.3	7414.1
60°	290.2	283.3	220.2	227.1	254.6	235.1	423.2	778.8	4186.5	5418.4	5935.6
62.5°	200.7	191.5	164.0	175.5	164.0	134.2	259.2	385.4	2536.0	3421.5	3890.6
65°	146.8	136.5	112.4	96.3	76.8	76.8	98.6	148.0	981.8	1454.4	1753.7
67.5°	90.6	86.0	66.5	48.2	47.0	50.5	51.6	73.4	158.3	252.3	308.5
70°	58.5	53.9	44.7	31.0	28.7	29.8	31.0	34.4	40.1	43.6	52.8
72.5°	40.1	37.9	32.1	17.2	13.8	14.9	16.1	16.1	19.5	18.4	21.8
75°	28.7	26.4	22.9	8.0	4.6	5.7	6.9	5.7	6.9	4.6	5.7
77.5°	8.0	8.0	5.7	1.1	0.0	1.1	2.3	2.3	1.1	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1652.8	1679.2	1689.5	1674.6	1687.2	1666.6	1658.5	1627.6	1625.3	1619.5
5°	1875.3	1935.0	1970.5	1992.3	1967.1	1939.6	1898.3	1827.1	1805.4	1791.6
7.5°	2094.4	2187.3	2248.1	2276.8	2269.9	2213.7	2139.1	2019.8	1977.4	1956.8
10°	2284.8	2398.3	2471.8	2507.3	2492.4	2443.1	2336.4	2187.3	2131.1	2118.5
12.5°	2417.8	2522.2	2572.7	2603.7	2604.8	2585.3	2484.4	2334.1	2267.6	2251.5
15°	2501.6	2546.3	2547.5	2565.8	2597.9	2641.5	2594.5	2461.4	2390.3	2366.2
17.5°	2554.3	2505.0	2454.5	2459.1	2511.9	2627.7	2675.9	2573.8	2498.1	2471.8
20°	2592.2	2436.2	2342.1	2343.3	2397.2	2572.7	2732.1	2682.8	2604.8	2580.7
22.5°	2616.3	2375.4	2241.2	2237.8	2295.1	2507.3	2783.7	2812.4	2735.6	2708.0
25°	2665.6	2346.7	2180.4	2199.9	2250.4	2486.7	2853.7	2984.5	2913.3	2876.6
27.5°	2753.9	2375.4	2174.7	2219.4	2276.8	2547.5	2975.3	3213.9	3140.4	3099.2
30°	2906.5	2483.2	2263.0	2324.9	2393.8	2706.9	3179.4	3533.9	3428.3	3389.3
32.5°	3151.9	2706.9	2536.0	2669.0	2735.6	2968.4	3485.7	3892.9	3806.8	3728.8
35°	3490.3	3217.3	3197.8	3507.5	3491.4	3463.9	3861.9	4333.3	4203.7	4128.0
37.5°	3956.0	4038.5	4183.1	4490.4	4480.1	4270.2	4356.2	4749.7	4683.1	4585.6
40°	4537.5	4713.0	4958.4	5398.9	5261.2	4997.4	4963.0	5176.3	5122.4	5007.7
42.5°	4880.4	5183.2	5651.2	6046.9	5936.8	5475.7	5436.7	5746.4	5628.3	5503.2
45°	5039.9	5566.3	6483.9	7019.5	6685.8	5793.4	5778.5	6489.6	6423.1	6255.7
47.5°	5113.3	5952.9	7458.8	8269.8	7645.8	6072.1	6018.2	7567.8	7480.6	7283.4
50°	5194.7	6486.2	8633.4	9718.4	8805.4	6387.6	6426.6	8572.6	8535.9	8303.0
52.5°	5373.6	7050.5	10079.7	11374.7	10211.6	6881.9	7127.4	9520.0	9272.2	9003.8
55°	5642.0	7665.3	11584.6	13066.5	11646.5	7546.0	7885.5	10023.5	9328.4	9031.4
57.5°	5345.0	7819.0	12475.8	14247.8	12283.1	7548.3	7244.4	9150.6	8204.4	7916.5
60°	4241.6	7274.2	12132.8	13992.1	11740.5	6703.0	5546.8	7144.6	6215.5	6022.8
62.5°	2867.5	6100.8	10680.7	11833.4	10048.7	5272.7	3605.0	4646.4	3848.1	3688.7
65°	1571.4	4551.2	8629.9	8952.2	7864.9	3683.0	1854.7	2016.4	1535.8	1464.7
67.5°	433.6	3168.0	6349.7	5939.1	5518.1	2398.3	479.4	360.2	256.9	254.6
70°	109.0	2095.5	3804.5	3921.5	3383.6	1535.8	91.8	43.6	34.4	33.3
72.5°	45.9	901.5	1805.4	2074.9	1731.9	711.1	33.3	12.6	10.3	8.0
75°	5.7	72.3	153.7	232.8	159.4	76.8	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

(END OF REPORT)