

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: P639198

Luminaire Tested: GWS-SA5B-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639198
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-SA5B-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9342.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

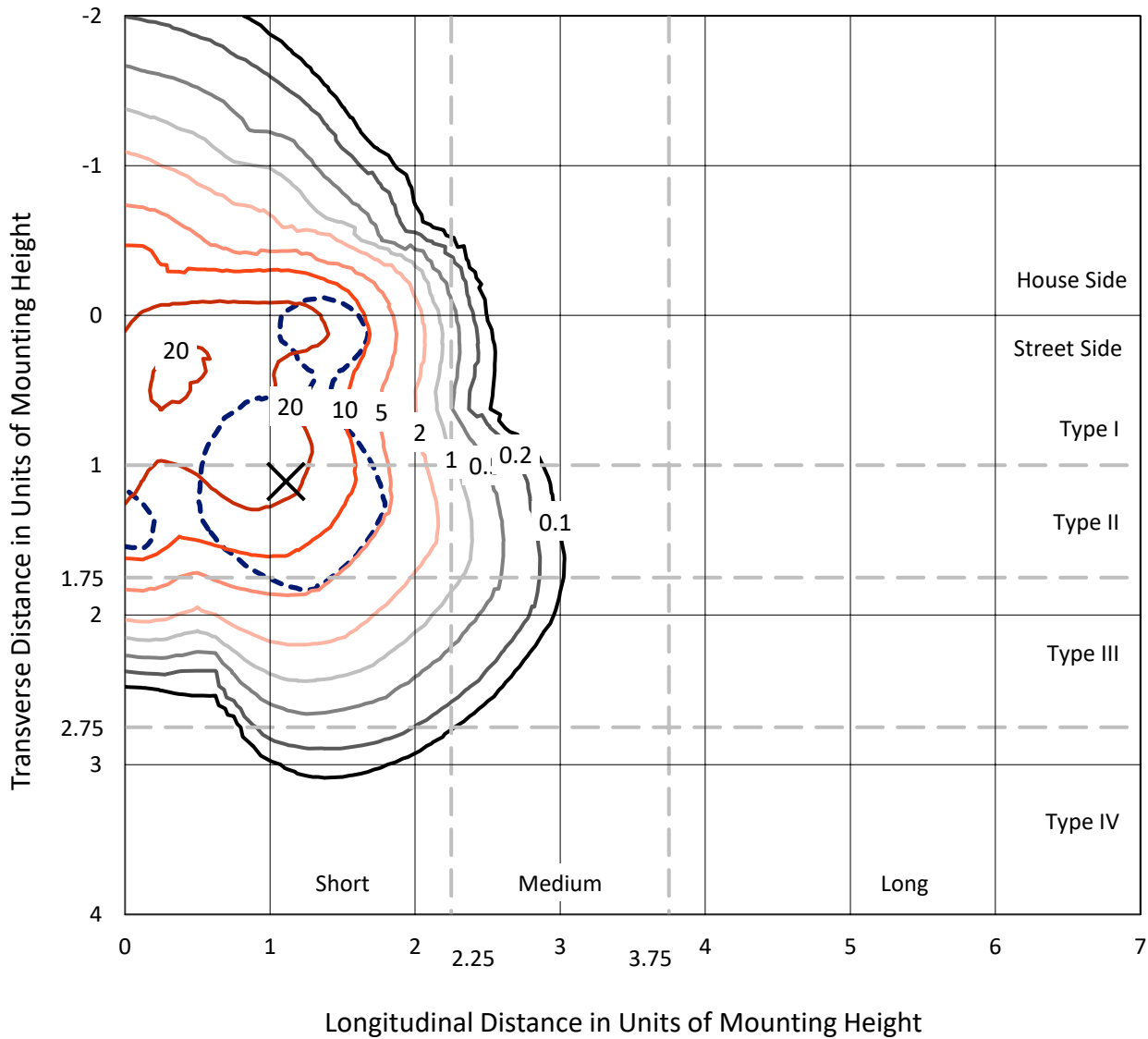
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

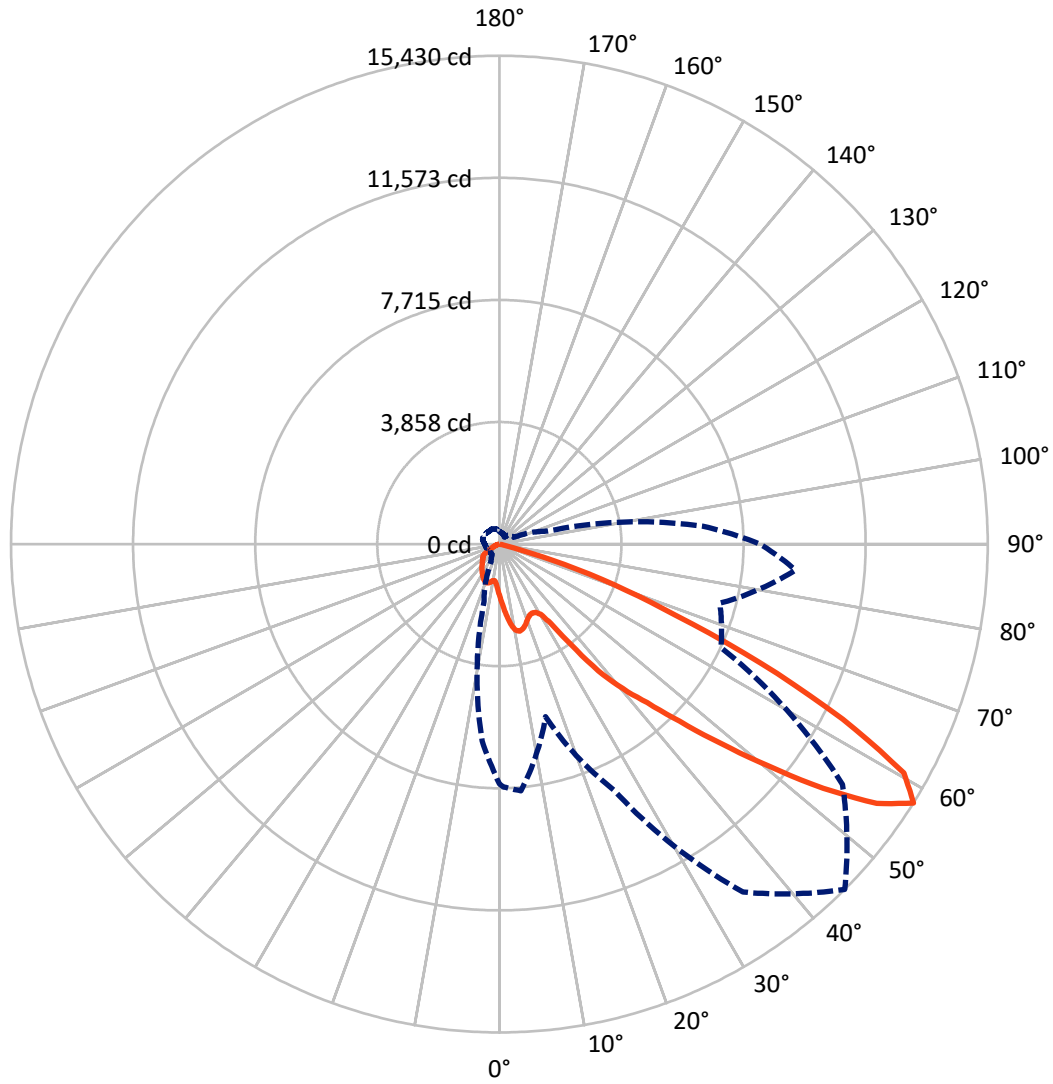
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.3 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	2092.1	0.0	2092.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7250.7	0.0	7250.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	9342.8	0.0	9342.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.7
10°-20°	522.6	5.6
20°-30°	848.9	9.1
30°-40°	1311.7	14.0
40°-50°	2103.3	22.5
50°-60°	2874.6	30.8
60°-70°	1392.3	14.9
70°-80°	127.5	1.4
80°-90°	0.4	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°	9342.8	100.0
0°-180°	9342.8	100.0

Coefficient of Utilization



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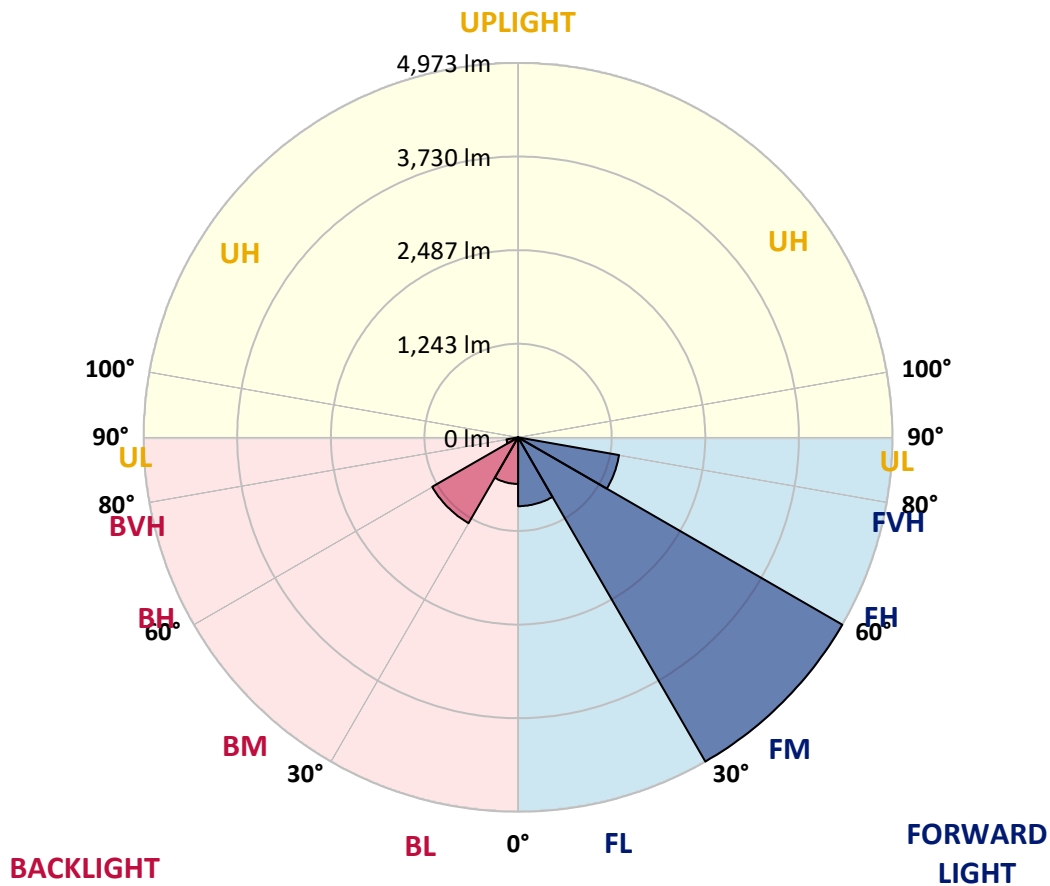
CATALOG NUMBER: GWS-SA5B-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.0	9.8			
FM (30°-60°)	4973.4	53.2			
FH (60°-80°)	1362.9	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	619.0	6.6	B2/1000		
BM (30°-60°)	1316.3	14.1	B2/2500		
BH (60°-80°)	156.8	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°	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1
2.5°	1778.9	1790.2	1809.1	1849.2	1883.1	1905.7	1915.8	1913.3	1899.5	1889.4	1869.3
5°	1969.8	1969.8	2006.2	2097.8	2168.1	2212.1	2234.7	2220.8	2193.2	2149.3	2081.5
7.5°	2136.7	2143.0	2204.5	2335.1	2441.8	2504.6	2541.0	2533.4	2484.5	2400.4	2264.8
10°	2267.3	2274.8	2356.4	2515.9	2641.4	2705.4	2759.4	2764.4	2710.5	2598.7	2443.1
12.5°	2394.1	2401.6	2487.0	2640.2	2750.6	2777.0	2824.7	2843.5	2829.7	2750.6	2588.7
15°	2530.9	2548.5	2621.3	2735.6	2782.0	2750.6	2782.0	2815.9	2862.4	2854.8	2709.2
17.5°	2665.3	2677.8	2751.9	2792.1	2740.6	2659.0	2674.1	2714.2	2819.7	2922.6	2828.5
20°	2789.6	2807.1	2868.6	2815.9	2660.2	2533.4	2534.7	2587.4	2748.1	2964.1	2950.3
22.5°	2920.1	2946.5	2990.4	2842.3	2586.2	2434.3	2440.5	2488.3	2691.6	3003.0	3088.3
25°	3090.9	3116.0	3144.8	2907.6	2562.3	2385.3	2409.2	2453.1	2691.6	3069.5	3259.1
27.5°	3321.9	3339.4	3340.7	3029.3	2603.8	2392.8	2443.1	2493.3	2772.0	3202.6	3487.6
30°	3611.9	3639.5	3603.1	3218.9	2733.1	2493.3	2567.3	2630.1	2945.2	3427.3	3824.0
32.5°	3964.6	4003.6	3954.6	3500.1	3003.0	2839.8	2974.1	3010.5	3221.4	3752.5	4205.7
35°	4378.9	4411.6	4358.8	3889.3	3633.2	3663.3	3906.9	3860.4	3776.3	4152.9	4651.4
37.5°	4833.4	4863.5	4761.8	4479.4	4564.7	4695.3	5084.5	4925.0	4653.9	4668.9	5134.7
40°	5250.2	5282.8	5123.4	5120.9	5296.6	5535.2	6004.7	5785.0	5415.9	5344.3	5587.9
42.5°	5682.1	5704.7	5560.3	5462.4	5861.6	6352.5	6849.6	6553.3	5920.6	5842.8	6155.4
45°	6298.5	6346.2	6088.8	5630.6	6370.0	7292.8	7985.8	7407.0	6264.6	6201.8	7024.1
47.5°	7204.9	7240.0	6715.3	5736.0	6843.3	8464.1	9405.7	8514.3	6567.1	6424.0	8211.7
50°	7954.4	7978.2	7291.5	5851.5	7346.8	9727.0	11023.9	9827.5	6907.4	6791.9	9320.3
52.5°	8506.8	8597.2	8048.5	6088.8	8008.4	11212.2	12815.4	11382.9	7438.4	7502.4	10239.3
55°	8621.0	8744.0	8565.8	6234.4	8590.9	12725.0	14470.0	12775.2	7968.2	8041.0	10548.1
57.5°	7576.5	7674.4	7822.6	5646.9	8577.1	13418.0	15430.4	13237.2	7727.1	7211.2	9391.8
60°	5675.8	5743.6	6012.2	4316.2	7887.8	12805.3	14682.2	12451.3	6756.7	5502.5	7155.9
62.5°	3365.8	3395.9	3736.1	2795.8	6547.0	11027.7	12176.4	10743.9	5339.3	3701.0	4382.7
65°	1291.8	1279.3	1539.2	1379.7	4814.6	8784.2	9056.6	8190.4	3663.3	1696.1	1671.0
67.5°	199.6	190.8	257.4	408.0	3472.5	6087.6	5975.8	5903.0	2294.9	395.5	345.2
70°	45.2	45.2	55.2	120.5	2121.7	3576.7	3827.8	3649.5	1468.8	84.1	45.2
72.5°	21.3	21.3	26.4	51.5	768.3	1473.9	1717.4	1691.1	477.1	27.6	16.3
75°	7.5	8.8	8.8	11.3	46.5	76.6	175.8	125.5	30.1	0.0	0.0
77.5°	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	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°	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1
2.5°	1825.4	1816.6	1784.0	1740.0	1697.3	1659.7	1620.8	1574.3	1540.4	1501.5	1488.9
5°	2028.8	1973.5	1884.4	1791.5	1706.1	1633.3	1563.0	1487.7	1432.4	1377.2	1358.4
7.5°	2200.8	2119.2	1974.8	1835.4	1718.7	1615.7	1514.0	1411.1	1330.8	1265.5	1245.4
10°	2355.2	2261.0	2067.7	1895.7	1748.8	1629.5	1506.5	1377.2	1273.0	1195.2	1176.3
12.5°	2488.3	2379.0	2146.8	1940.9	1761.4	1624.5	1505.3	1402.3	1308.2	1219.0	1195.2
15°	2600.0	2479.5	2213.3	1971.0	1742.5	1561.8	1457.5	1441.2	1433.7	1335.8	1289.3
17.5°	2709.2	2573.6	2267.3	1984.8	1689.8	1451.3	1375.9	1450.0	1529.1	1465.1	1406.1
20°	2823.5	2669.0	2322.5	1987.3	1601.9	1327.0	1314.4	1431.2	1531.6	1511.5	1456.3
22.5°	2957.8	2788.3	2391.6	1986.1	1491.4	1221.5	1269.2	1394.8	1476.4	1475.1	1431.2
25°	3152.4	2939.0	2484.5	1993.6	1370.9	1139.9	1219.0	1333.3	1399.8	1397.3	1360.9
27.5°	3360.8	3118.5	2605.0	2012.4	1268.0	1092.2	1160.0	1249.1	1306.9	1304.4	1273.0
30°	3653.3	3325.6	2720.5	2013.7	1193.9	1067.1	1094.7	1156.2	1211.5	1205.2	1181.4
32.5°	4008.6	3559.1	2817.2	1942.1	1147.5	1043.3	1026.9	1058.3	1101.0	1092.2	1085.9
35°	4437.9	3836.6	2900.0	1785.2	1075.9	995.6	951.6	957.9	988.0	993.0	990.5
37.5°	4927.5	4166.8	3003.0	1578.1	979.2	926.5	867.5	862.5	880.1	896.4	908.9
40°	5410.9	4538.4	3142.3	1368.4	891.4	838.6	782.1	769.6	777.1	806.0	832.3
42.5°	5954.5	4969.0	3293.0	1188.9	831.1	742.0	688.0	664.1	685.5	731.9	763.3
45°	6737.9	5572.8	3439.9	1045.8	806.0	656.6	583.8	581.3	605.1	665.4	700.5
47.5°	7837.6	6353.7	3536.5	934.0	804.7	590.1	503.4	518.5	546.1	605.1	645.3
50°	8909.8	7331.7	3429.8	848.7	778.4	546.1	443.2	473.3	500.9	552.4	593.8
52.5°	9556.3	7857.7	3014.3	768.3	696.8	526.0	384.2	436.9	441.9	488.4	532.3
55°	9488.5	7517.5	2308.7	644.0	576.2	497.1	322.6	394.2	396.7	431.9	469.5
57.5°	8235.6	6454.1	1585.6	522.3	433.1	410.5	266.2	332.7	356.5	377.9	405.5
60°	6137.8	4709.1	706.8	424.3	274.9	277.4	227.2	251.1	287.5	312.6	336.5
62.5°	3616.9	2709.2	287.5	254.9	151.9	174.5	183.3	183.3	205.9	224.7	239.8
65°	1367.2	947.8	116.8	128.1	79.1	81.6	108.0	133.1	150.7	167.0	187.1
67.5°	239.8	165.7	60.3	47.7	46.5	41.4	55.2	86.6	96.7	109.2	118.0
70°	40.2	33.9	25.1	23.9	21.3	22.6	36.4	61.5	67.8	71.6	75.3
72.5°	11.3	10.0	7.5	6.3	5.0	6.3	22.6	47.7	50.2	52.7	56.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	33.9	36.4	37.7	41.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	10.0	12.6	10.0
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°	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1
2.5°	1481.4	1456.3	1442.5	1435.0	1435.0	1424.9	1413.6	1409.8	1426.2	1426.2	1453.8
5°	1334.5	1314.4	1291.8	1278.0	1256.7	1260.4	1247.9	1246.6	1263.0	1270.5	1299.4
7.5°	1232.8	1207.7	1193.9	1185.1	1173.8	1168.8	1157.5	1153.7	1162.5	1175.1	1202.7
10°	1165.0	1161.3	1160.0	1166.3	1166.3	1160.0	1150.0	1143.7	1146.2	1170.1	1201.4
12.5°	1182.6	1190.1	1192.7	1202.7	1207.7	1202.7	1195.2	1197.7	1214.0	1257.9	1304.4
15°	1259.2	1252.9	1250.4	1255.4	1259.2	1254.2	1251.7	1270.5	1327.0	1389.8	1442.5
17.5°	1340.8	1300.6	1283.0	1283.0	1285.6	1283.0	1285.6	1322.0	1413.6	1476.4	1515.3
20°	1382.2	1308.2	1280.5	1274.3	1279.3	1280.5	1289.3	1330.8	1431.2	1475.1	1483.9
22.5°	1369.7	1276.8	1245.4	1240.4	1245.4	1250.4	1259.2	1294.3	1388.5	1411.1	1407.3
25°	1306.9	1215.3	1190.1	1190.1	1201.4	1200.2	1204.0	1229.1	1306.9	1320.7	1314.4
27.5°	1227.8	1141.2	1119.8	1132.4	1142.4	1139.9	1141.2	1162.5	1220.3	1224.0	1217.8
30°	1147.5	1072.1	1052.0	1067.1	1080.9	1078.4	1079.7	1101.0	1137.4	1133.6	1124.9
32.5°	1065.9	1010.6	995.6	1004.3	1025.7	1023.2	1028.2	1050.8	1064.6	1048.3	1038.2
35°	990.5	961.7	950.4	955.4	971.7	975.5	984.3	999.3	999.3	979.2	961.7
37.5°	920.2	916.5	908.9	902.7	917.7	929.0	941.6	959.1	934.0	905.2	888.8
40°	854.9	871.3	861.2	844.9	853.7	870.0	895.1	908.9	878.8	849.9	822.3
42.5°	794.7	822.3	818.5	798.5	806.0	821.0	849.9	861.2	826.1	793.4	767.1
45°	736.9	775.9	778.4	753.3	760.8	775.9	809.7	813.5	768.3	733.2	714.3
47.5°	686.7	729.4	730.7	711.8	714.3	735.7	767.1	768.3	716.8	684.2	660.4
50°	639.0	688.0	691.7	675.4	677.9	703.0	729.4	724.4	669.1	635.2	613.9
52.5°	581.3	647.8	656.6	649.1	659.1	679.2	695.5	677.9	613.9	580.0	561.2
55°	518.5	605.1	623.9	618.9	630.2	646.5	650.3	639.0	558.7	524.8	507.2
57.5°	445.7	498.4	531.0	521.0	529.8	546.1	557.4	548.6	488.4	462.0	446.9
60°	369.1	404.2	411.8	395.5	387.9	416.8	443.2	431.9	380.4	364.1	346.5
62.5°	269.9	310.1	315.1	293.8	285.0	316.4	339.0	327.7	271.2	253.6	239.8
65°	215.9	253.6	263.6	243.6	238.5	262.4	276.2	248.6	208.4	189.6	174.5
67.5°	141.9	172.0	198.4	197.1	187.1	194.6	184.5	161.9	133.1	123.0	113.0
70°	87.9	105.5	121.8	128.1	126.8	124.3	110.5	94.2	85.4	81.6	76.6
72.5°	67.8	85.4	97.9	101.7	102.9	99.2	87.9	72.8	64.0	59.0	55.2
75°	50.2	64.0	74.1	79.1	81.6	79.1	67.8	57.7	49.0	45.2	41.4
77.5°	17.6	21.3	26.4	28.9	27.6	26.4	23.9	23.9	18.8	17.6	15.1
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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CATALOG NUMBER: GWS-SA5B-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1	1642.1
2.5°	1485.2	1507.8	1549.2	1586.9	1627.0	1668.5	1713.7	1760.1	1781.4	1778.9
5°	1343.3	1392.3	1460.1	1534.1	1617.0	1706.1	1805.3	1907.0	1950.9	1969.8
7.5°	1254.2	1323.2	1412.4	1506.5	1615.7	1742.5	1891.9	2051.4	2115.4	2136.7
10°	1265.5	1345.8	1419.9	1511.5	1628.3	1792.7	1978.6	2168.1	2243.4	2267.3
12.5°	1357.1	1374.7	1394.8	1470.1	1617.0	1830.4	2057.6	2283.6	2370.2	2394.1
15°	1440.0	1358.4	1320.7	1389.8	1576.8	1856.8	2138.0	2407.9	2503.3	2530.9
17.5°	1443.7	1320.7	1236.6	1290.6	1511.5	1868.1	2217.1	2534.7	2638.9	2665.3
20°	1397.3	1279.3	1171.3	1172.6	1422.4	1865.6	2282.4	2648.9	2765.7	2789.6
22.5°	1329.5	1230.3	1118.6	1079.7	1327.0	1860.5	2353.9	2770.7	2897.5	2920.1
25°	1254.2	1167.5	1068.4	1009.4	1231.6	1865.6	2454.4	2930.2	3069.5	3090.9
27.5°	1172.6	1098.5	1029.4	981.7	1151.2	1884.4	2574.9	3133.5	3299.3	3321.9
30°	1087.2	1032.0	1004.3	975.5	1101.0	1889.4	2705.4	3370.8	3580.5	3611.9
32.5°	1003.1	973.0	974.2	979.2	1053.3	1854.3	2824.7	3634.5	3914.4	3964.6
35°	925.2	916.5	941.6	966.7	984.3	1763.9	2928.9	3945.8	4327.5	4378.9
37.5°	858.7	866.2	897.6	922.7	908.9	1635.8	3067.0	4335.0	4789.5	4833.4
40°	794.7	813.5	849.9	861.2	851.2	1486.4	3232.7	4710.4	5189.9	5250.2
42.5°	735.7	749.5	801.0	803.5	834.9	1334.5	3392.2	5114.6	5650.7	5682.1
45°	688.0	685.5	738.2	754.5	856.2	1166.3	3547.8	5653.2	6253.3	6298.5
47.5°	641.5	639.0	651.6	725.6	865.0	1010.6	3702.3	6441.6	7127.1	7204.9
50°	597.6	601.3	562.4	711.8	817.3	891.4	3772.6	7171.0	7921.7	7954.4
52.5°	558.7	544.9	477.1	666.6	715.6	778.4	3572.9	7502.4	8413.9	8506.8
55°	503.4	426.8	392.9	541.1	564.9	679.2	2926.4	7310.3	8456.6	8621.0
57.5°	430.6	335.2	333.9	399.2	399.2	630.2	1874.4	6245.7	7287.7	7576.5
60°	331.4	259.9	276.2	277.4	256.1	459.5	1052.0	4524.6	5388.3	5675.8
62.5°	236.0	198.4	208.4	165.7	146.9	229.7	504.7	2605.0	3325.6	3365.8
65°	158.2	134.3	109.2	91.6	90.4	97.9	208.4	941.6	1144.9	1291.8
67.5°	104.2	81.6	57.7	57.7	65.3	65.3	79.1	155.7	218.4	199.6
70°	67.8	56.5	36.4	35.2	42.7	42.7	40.2	42.7	45.2	45.2
72.5°	50.2	42.7	21.3	18.8	23.9	25.1	22.6	21.3	21.3	21.3
75°	37.7	30.1	12.6	8.8	11.3	15.1	12.6	8.8	8.8	7.5
77.5°	15.1	11.3	5.0	3.8	6.3	8.8	7.5	3.8	2.5	2.5
80°	1.3	2.5	2.5	2.5	3.8	5.0	6.3	2.5	1.3	1.3
82.5°	0.0	1.3	1.3	1.3	2.5	3.8	5.0	2.5	1.3	1.3
85°	0.0	0.0	0.0	0.0	2.5	3.8	2.5	1.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.3	3.8	2.5	1.3	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)