

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: P632763

Luminaire Tested: GWS-SA2D-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632763  
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-SA2D-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

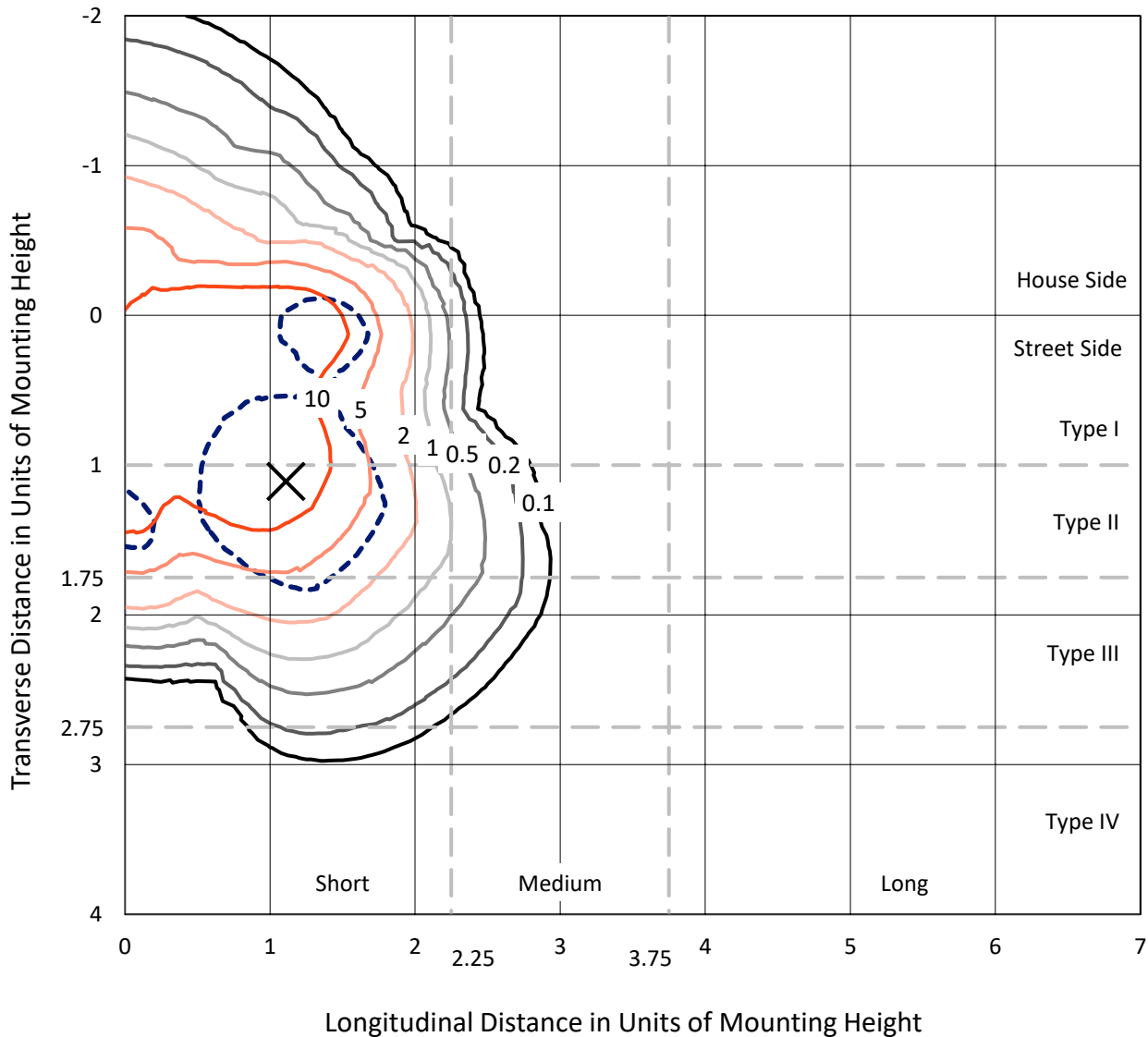
Lumens per Lamp: N/A  
Luminaire Lumens: 6143.8 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

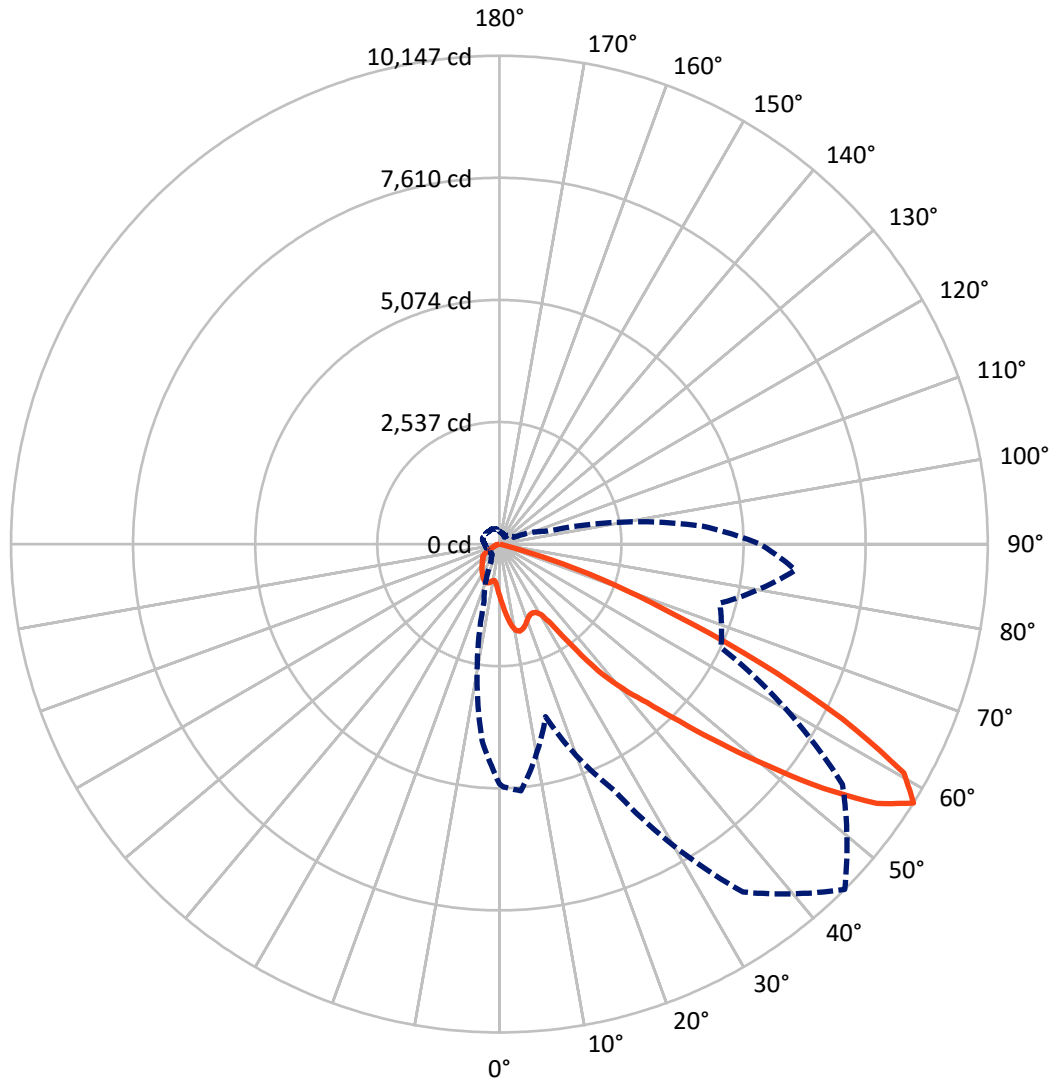
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.2 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
<b>House Side</b>	Lumens	1375.8	0.0	1375.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	4768.0	0.0	4768.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	6143.8	0.0	6143.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	1.7
10°-20°	343.7	5.6
20°-30°	558.2	9.1
30°-40°	862.6	14.0
40°-50°	1383.1	22.5
50°-60°	1890.4	30.8
60°-70°	915.6	14.9
70°-80°	83.8	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°	6143.8	100.0
0°-180°	6143.8	100.0

**Coefficient of Utilization**



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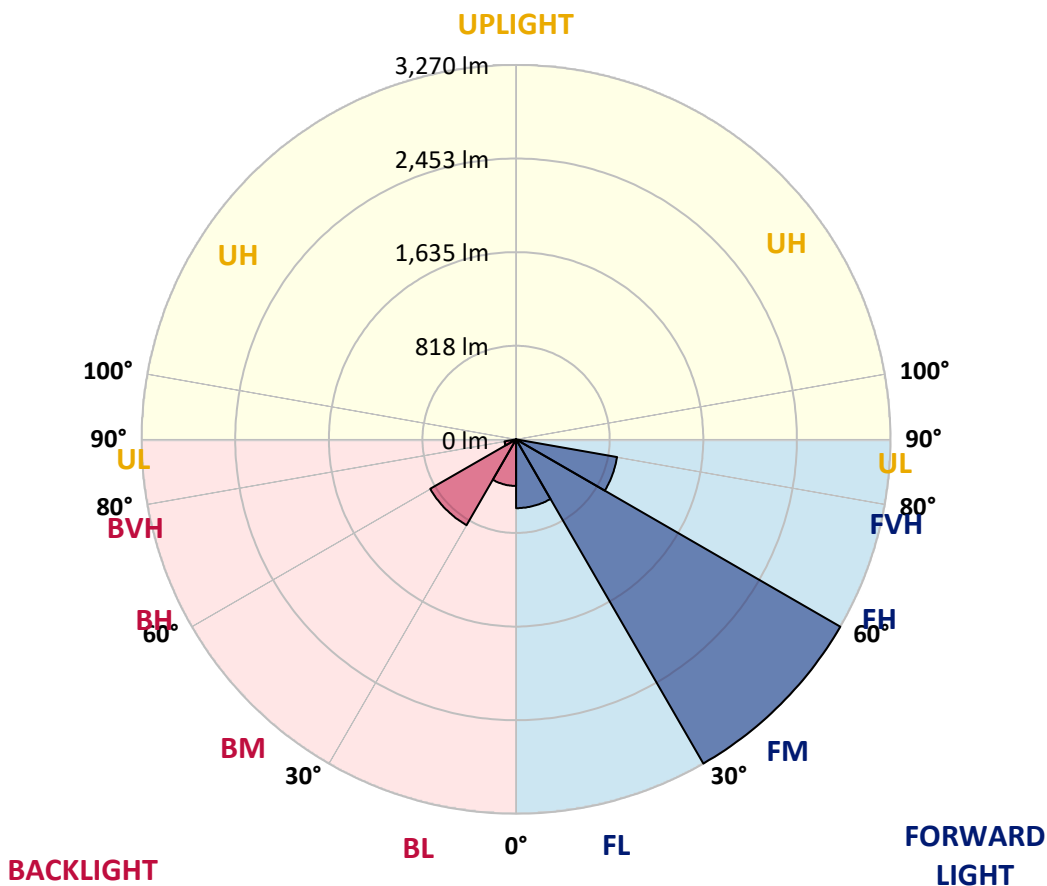
CATALOG NUMBER: GWS-SA2D-735-U-SLR-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.1	9.8			
FM (30°-60°)	3270.5	53.2			
FH (60°-80°)	896.3	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	407.1	6.6	B1/500		
BM (30°-60°)	865.6	14.1	B1/1000		
BH (60°-80°)	103.1	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°	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8
2.5°	1169.8	1177.3	1189.6	1216.1	1238.3	1253.2	1259.8	1258.2	1249.1	1242.5	1229.3
5°	1295.3	1295.3	1319.3	1379.5	1425.8	1454.6	1469.5	1460.4	1442.3	1413.4	1368.8
7.5°	1405.1	1409.2	1449.7	1535.6	1605.7	1647.0	1670.9	1666.0	1633.8	1578.5	1489.3
10°	1491.0	1495.9	1549.6	1654.4	1737.0	1779.1	1814.6	1817.9	1782.4	1708.9	1606.5
12.5°	1574.4	1579.3	1635.4	1736.2	1808.8	1826.1	1857.5	1869.9	1860.8	1808.8	1702.3
15°	1664.3	1675.9	1723.8	1798.9	1829.5	1808.8	1829.5	1851.7	1882.3	1877.3	1781.6
17.5°	1752.7	1760.9	1809.6	1836.1	1802.2	1748.5	1758.5	1784.9	1854.2	1921.9	1860.0
20°	1834.4	1846.0	1886.4	1851.7	1749.4	1666.0	1666.8	1701.5	1807.2	1949.2	1940.1
22.5°	1920.3	1937.6	1966.5	1869.1	1700.7	1600.8	1604.9	1636.3	1770.0	1974.8	2030.9
25°	2032.5	2049.1	2068.0	1912.0	1685.0	1568.6	1584.3	1613.2	1770.0	2018.5	2143.2
27.5°	2184.4	2196.0	2196.8	1992.1	1712.2	1573.5	1606.5	1639.6	1822.8	2106.0	2293.4
30°	2375.2	2393.3	2369.4	2116.7	1797.3	1639.6	1688.3	1729.6	1936.8	2253.8	2514.7
32.5°	2607.1	2632.7	2600.5	2301.7	1974.8	1867.4	1955.8	1979.7	2118.4	2467.6	2765.6
35°	2879.6	2901.0	2866.4	2557.6	2389.2	2409.0	2569.2	2538.6	2483.3	2731.0	3058.7
37.5°	3178.4	3198.2	3131.4	2945.6	3001.8	3087.6	3343.5	3238.7	3060.4	3070.3	3376.6
40°	3452.5	3474.0	3369.1	3367.5	3483.1	3639.9	3948.7	3804.2	3561.5	3514.4	3674.6
42.5°	3736.5	3751.4	3656.4	3592.0	3854.6	4177.4	4504.3	4309.4	3893.4	3842.2	4047.7
45°	4141.9	4173.2	4004.0	3702.7	4188.9	4795.7	5251.4	4870.8	4119.6	4078.3	4619.0
47.5°	4737.9	4761.0	4415.9	3772.0	4500.2	5566.0	6185.1	5599.0	4318.5	4224.4	5400.0
50°	5230.8	5246.5	4794.9	3848.0	4831.2	6396.5	7249.3	6462.5	4542.3	4466.3	6129.0
52.5°	5594.0	5653.5	5292.7	4004.0	5266.3	7373.1	8427.4	7485.4	4891.5	4933.6	6733.3
55°	5669.2	5750.1	5632.8	4099.8	5649.3	8367.9	9515.5	8400.9	5239.9	5287.7	6936.4
57.5°	4982.3	5046.7	5144.1	3713.4	5640.3	8823.6	10147.0	8704.8	5081.4	4742.0	6176.1
60°	3732.4	3777.0	3953.6	2838.3	5187.0	8420.8	9655.0	8188.0	4443.2	3618.5	4705.7
62.5°	2213.3	2233.2	2456.9	1838.5	4305.3	7251.8	8007.2	7065.2	3511.1	2433.8	2882.0
65°	849.5	841.3	1012.1	907.3	3166.0	5776.5	5955.6	5386.0	2409.0	1115.3	1098.8
67.5°	131.3	125.5	169.2	268.3	2283.5	4003.2	3929.7	3881.8	1509.1	260.1	227.0
70°	29.7	29.7	36.3	79.3	1395.2	2352.0	2517.1	2399.9	965.9	55.3	29.7
72.5°	14.0	14.0	17.3	33.8	505.2	969.2	1129.4	1112.0	313.7	18.2	10.7
75°	5.0	5.8	5.8	7.4	30.5	50.4	115.6	82.6	19.8	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	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°	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8
2.5°	1200.4	1194.6	1173.1	1144.2	1116.2	1091.4	1065.8	1035.3	1013.0	987.4	979.1
5°	1334.1	1297.8	1239.2	1178.1	1121.9	1074.1	1027.8	978.3	942.0	905.6	893.3
7.5°	1447.2	1393.6	1298.6	1207.0	1130.2	1062.5	995.6	927.9	875.1	832.2	819.0
10°	1548.8	1486.8	1359.7	1246.6	1150.0	1071.6	990.7	905.6	837.1	785.9	773.6
12.5°	1636.3	1564.4	1411.7	1276.3	1158.3	1068.3	989.9	922.2	860.2	801.6	785.9
15°	1709.7	1630.5	1455.5	1296.1	1145.9	1027.0	958.5	947.7	942.8	878.4	847.9
17.5°	1781.6	1692.4	1491.0	1305.2	1111.2	954.4	904.8	953.5	1005.5	963.4	924.6
20°	1856.7	1755.2	1527.3	1306.9	1053.4	872.6	864.4	941.1	1007.2	994.0	957.7
22.5°	1945.0	1833.6	1572.7	1306.0	980.8	803.3	834.6	917.2	970.9	970.0	941.1
25°	2073.0	1932.6	1633.8	1311.0	901.5	749.6	801.6	876.7	920.5	918.9	894.9
27.5°	2210.0	2050.7	1713.0	1323.4	833.8	718.2	762.8	821.4	859.4	857.8	837.1
30°	2402.4	2186.9	1789.0	1324.2	785.1	701.7	719.9	760.3	796.7	792.5	776.9
32.5°	2636.0	2340.5	1852.6	1277.1	754.6	686.0	675.3	696.0	724.0	718.2	714.1
35°	2918.4	2522.9	1907.1	1174.0	707.5	654.7	625.8	629.9	649.7	653.0	651.4
37.5°	3240.3	2740.0	1974.8	1037.7	643.9	609.3	570.5	567.2	578.7	589.5	597.7
40°	3558.2	2984.4	2066.4	899.9	586.2	551.5	514.3	506.1	511.0	530.0	547.3
42.5°	3915.7	3267.6	2165.5	781.8	546.5	487.9	452.4	436.7	450.8	481.3	501.9
45°	4430.8	3664.7	2262.0	687.7	530.0	431.8	383.9	382.2	397.9	437.5	460.7
47.5°	5154.0	4178.2	2325.6	614.2	529.2	388.0	331.1	341.0	359.1	397.9	424.3
50°	5859.0	4821.3	2255.4	558.1	511.9	359.1	291.4	311.2	329.4	363.2	390.5
52.5°	6284.2	5167.2	1982.2	505.2	458.2	345.9	252.6	287.3	290.6	321.1	350.0
55°	6239.6	4943.5	1518.2	423.5	378.9	326.9	212.2	259.2	260.9	284.0	308.8
57.5°	5415.7	4244.2	1042.7	343.4	284.8	270.0	175.0	218.8	234.5	248.5	266.7
60°	4036.2	3096.7	464.8	279.0	180.8	182.4	149.4	165.1	189.1	205.6	221.3
62.5°	2378.5	1781.6	189.1	167.6	99.9	114.8	120.5	120.5	135.4	147.8	157.7
65°	899.0	623.3	76.8	84.2	52.0	53.7	71.0	87.5	99.1	109.8	123.0
67.5°	157.7	109.0	39.6	31.4	30.5	27.2	36.3	57.0	63.6	71.8	77.6
70°	26.4	22.3	16.5	15.7	14.0	14.9	23.9	40.5	44.6	47.1	49.5
72.5°	7.4	6.6	5.0	4.1	3.3	4.1	14.9	31.4	33.0	34.7	37.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	22.3	23.9	24.8	27.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.6	8.3	6.6
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°	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8
2.5°	974.2	957.7	948.6	943.6	943.6	937.0	929.6	927.1	937.8	937.8	956.0
5°	877.6	864.4	849.5	840.4	826.4	828.9	820.6	819.8	830.5	835.5	854.5
7.5°	810.7	794.2	785.1	779.3	771.9	768.6	761.2	758.7	764.5	772.7	790.9
10°	766.1	763.6	762.8	766.9	766.9	762.8	756.2	752.1	753.7	769.4	790.1
12.5°	777.7	782.6	784.3	790.9	794.2	790.9	785.9	787.6	798.3	827.2	857.8
15°	828.0	823.9	822.3	825.6	828.0	824.7	823.1	835.5	872.6	913.9	948.6
17.5°	881.7	855.3	843.7	843.7	845.4	843.7	845.4	869.3	929.6	970.9	996.5
20°	908.9	860.2	842.1	837.9	841.3	842.1	847.9	875.1	941.1	970.0	975.8
22.5°	900.7	839.6	819.0	815.7	819.0	822.3	828.0	851.2	913.1	927.9	925.5
25°	859.4	799.1	782.6	782.6	790.1	789.2	791.7	808.2	859.4	868.5	864.4
27.5°	807.4	750.4	736.4	744.7	751.3	749.6	750.4	764.5	802.4	804.9	800.8
30°	754.6	705.0	691.8	701.7	710.8	709.2	710.0	724.0	748.0	745.5	739.7
32.5°	700.9	664.6	654.7	660.5	674.5	672.8	676.1	691.0	700.1	689.3	682.7
35°	651.4	632.4	625.0	628.3	639.0	641.5	647.2	657.1	657.1	643.9	632.4
37.5°	605.1	602.7	597.7	593.6	603.5	610.9	619.2	630.7	614.2	595.2	584.5
40°	562.2	572.9	566.3	555.6	561.4	572.1	588.6	597.7	577.9	558.9	540.7
42.5°	522.6	540.7	538.3	525.1	530.0	539.9	558.9	566.3	543.2	521.8	504.4
45°	484.6	510.2	511.9	495.3	500.3	510.2	532.5	535.0	505.2	482.1	469.7
47.5°	451.6	479.7	480.5	468.1	469.7	483.8	504.4	505.2	471.4	449.9	434.2
50°	420.2	452.4	454.9	444.2	445.8	462.3	479.7	476.4	440.0	417.7	403.7
52.5°	382.2	426.0	431.8	426.8	433.4	446.6	457.4	445.8	403.7	381.4	369.0
55°	341.0	397.9	410.3	407.0	414.4	425.2	427.6	420.2	367.4	345.1	333.5
57.5°	293.1	327.7	349.2	342.6	348.4	359.1	366.6	360.8	321.1	303.8	293.9
60°	242.7	265.8	270.8	260.1	255.1	274.1	291.4	284.0	250.1	239.4	227.9
62.5°	177.5	203.9	207.2	193.2	187.4	208.0	222.9	215.5	178.3	166.8	157.7
65°	142.0	166.8	173.4	160.2	156.9	172.5	181.6	163.5	137.0	124.7	114.8
67.5°	93.3	113.1	130.4	129.6	123.0	128.0	121.4	106.5	87.5	80.9	74.3
70°	57.8	69.3	80.1	84.2	83.4	81.7	72.6	61.9	56.1	53.7	50.4
72.5°	44.6	56.1	64.4	66.9	67.7	65.2	57.8	47.9	42.1	38.8	36.3
75°	33.0	42.1	48.7	52.0	53.7	52.0	44.6	38.0	32.2	29.7	27.2
77.5°	11.6	14.0	17.3	19.0	18.2	17.3	15.7	15.7	12.4	11.6	9.9
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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CATALOG NUMBER: GWS-SA2D-735-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8
2.5°	976.6	991.5	1018.7	1043.5	1069.9	1097.2	1126.9	1157.4	1171.5	1169.8
5°	883.4	915.6	960.1	1008.8	1063.3	1121.9	1187.2	1254.0	1282.9	1295.3
7.5°	824.7	870.1	928.8	990.7	1062.5	1145.9	1244.1	1349.0	1391.1	1405.1
10°	832.2	885.0	933.7	994.0	1070.8	1178.9	1301.1	1425.8	1475.3	1491.0
12.5°	892.4	904.0	917.2	966.7	1063.3	1203.7	1353.1	1501.7	1558.7	1574.4
15°	946.9	893.3	868.5	913.9	1036.9	1221.0	1405.9	1583.4	1646.2	1664.3
17.5°	949.4	868.5	813.2	848.7	994.0	1228.4	1457.9	1666.8	1735.3	1752.7
20°	918.9	841.3	770.3	771.1	935.4	1226.8	1500.9	1741.9	1818.7	1834.4
22.5°	874.3	809.1	735.6	710.0	872.6	1223.5	1547.9	1822.0	1905.4	1920.3
25°	824.7	767.8	702.6	663.8	809.9	1226.8	1614.0	1926.9	2018.5	2032.5
27.5°	771.1	722.4	677.0	645.6	757.0	1239.2	1693.2	2060.6	2169.6	2184.4
30°	714.9	678.6	660.5	641.5	724.0	1242.5	1779.1	2216.6	2354.5	2375.2
32.5°	659.6	639.8	640.6	643.9	692.6	1219.4	1857.5	2390.0	2574.1	2607.1
35°	608.4	602.7	619.2	635.7	647.2	1159.9	1926.0	2594.8	2845.7	2879.6
37.5°	564.7	569.6	590.3	606.8	597.7	1075.7	2016.9	2850.7	3149.5	3178.4
40°	522.6	535.0	558.9	566.3	559.7	977.5	2125.8	3097.5	3412.9	3452.5
42.5°	483.8	492.9	526.7	528.4	549.0	877.6	2230.7	3363.4	3715.9	3736.5
45°	452.4	450.8	485.4	496.2	563.0	766.9	2333.0	3717.5	4112.1	4141.9
47.5°	421.9	420.2	428.5	477.2	568.8	664.6	2434.6	4236.0	4686.7	4737.9
50°	393.0	395.4	369.9	468.1	537.4	586.2	2480.8	4715.6	5209.3	5230.8
52.5°	367.4	358.3	313.7	438.4	470.6	511.9	2349.6	4933.6	5532.9	5594.0
55°	331.1	280.7	258.4	355.8	371.5	446.6	1924.4	4807.3	5561.0	5669.2
57.5°	283.2	220.4	219.6	262.5	262.5	414.4	1232.6	4107.2	4792.4	4982.3
60°	217.9	170.9	181.6	182.4	168.4	302.2	691.8	2975.3	3543.3	3732.4
62.5°	155.2	130.4	137.0	109.0	96.6	151.1	331.9	1713.0	2186.9	2213.3
65°	104.0	88.3	71.8	60.3	59.4	64.4	137.0	619.2	752.9	849.5
67.5°	68.5	53.7	38.0	38.0	42.9	42.9	52.0	102.4	143.6	131.3
70°	44.6	37.2	23.9	23.1	28.1	28.1	26.4	28.1	29.7	29.7
72.5°	33.0	28.1	14.0	12.4	15.7	16.5	14.9	14.0	14.0	14.0
75°	24.8	19.8	8.3	5.8	7.4	9.9	8.3	5.8	5.8	5.0
77.5°	9.9	7.4	3.3	2.5	4.1	5.8	5.0	2.5	1.7	1.7
80°	0.8	1.7	1.7	1.7	2.5	3.3	4.1	1.7	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.7	2.5	3.3	1.7	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.7	2.5	1.7	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.5	1.7	0.8	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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