

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: P631773

Luminaire Tested: GWS-SA2B-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631773  
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-SA2B-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**

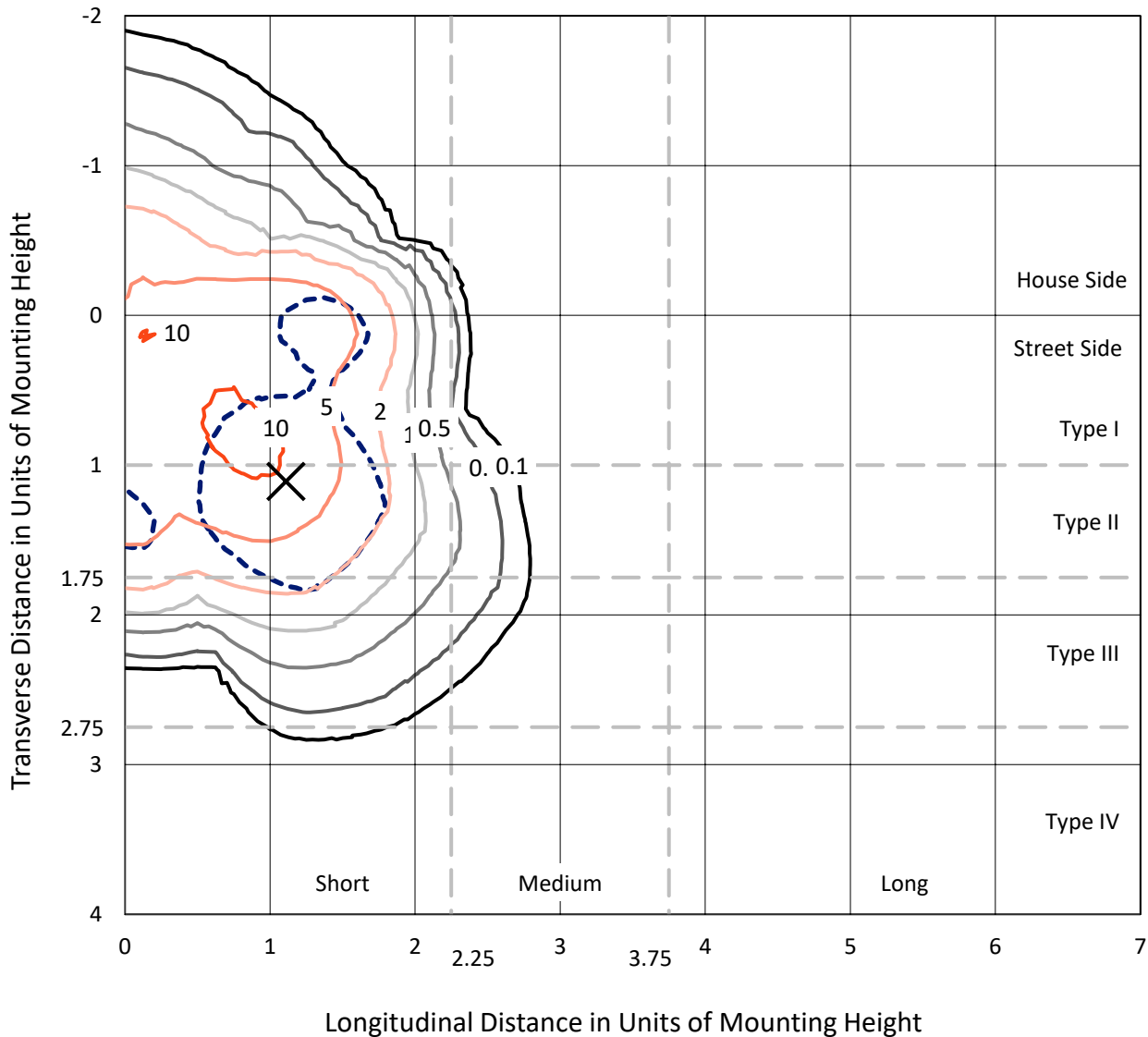
Lumens per Lamp: N/A  
Luminaire Lumens: 3631.3 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

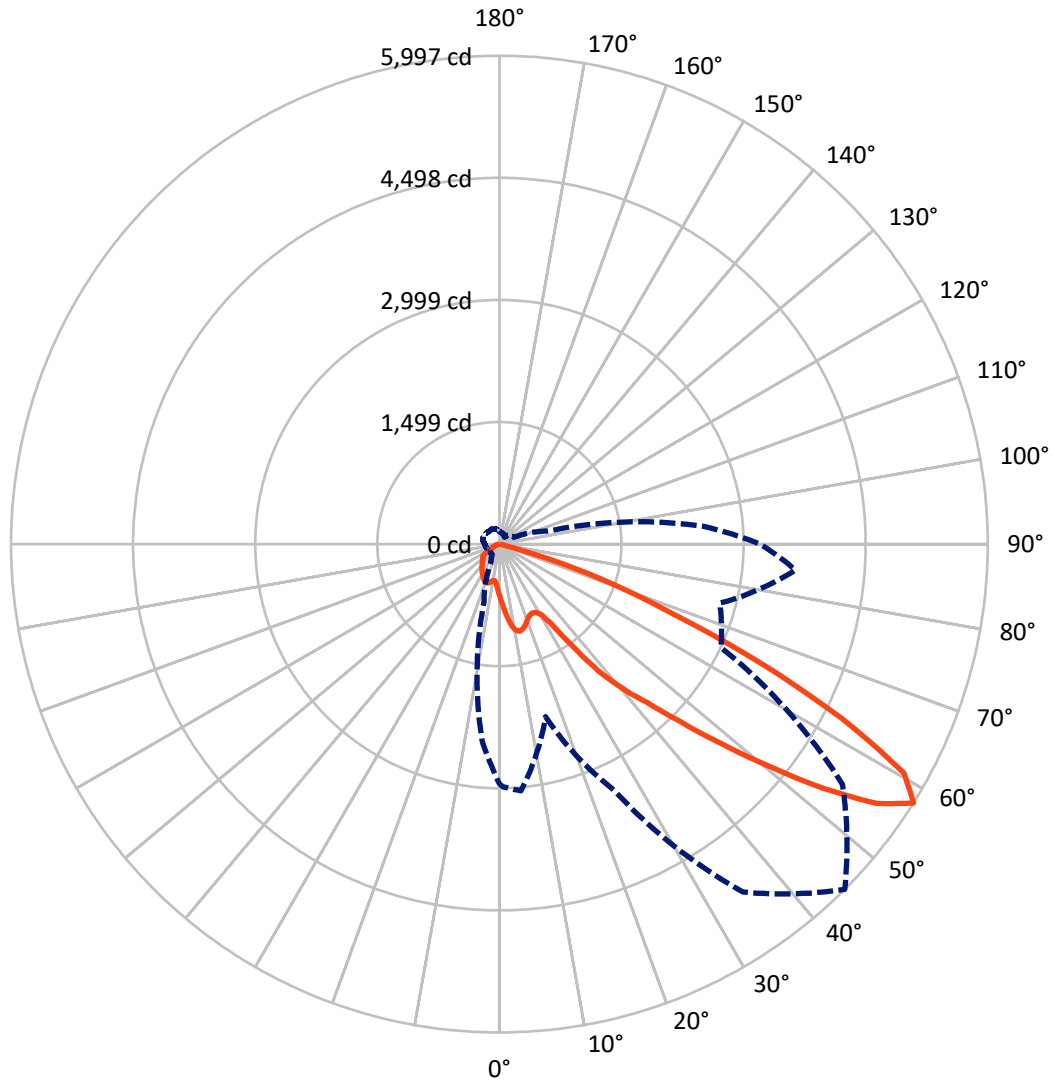
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 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
<b>House Side</b>	Lumens	813.1	0.0	813.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	2818.2	0.0	2818.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	3631.3	0.0	3631.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	1.7
10°-20°	203.1	5.6
20°-30°	330.0	9.1
30°-40°	509.8	14.0
40°-50°	817.5	22.5
50°-60°	1117.3	30.8
60°-70°	541.1	14.9
70°-80°	49.5	1.4
80°-90°	0.1	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°	3631.3	100.0
0°-180°	3631.3	100.0

**Coefficient of Utilization**



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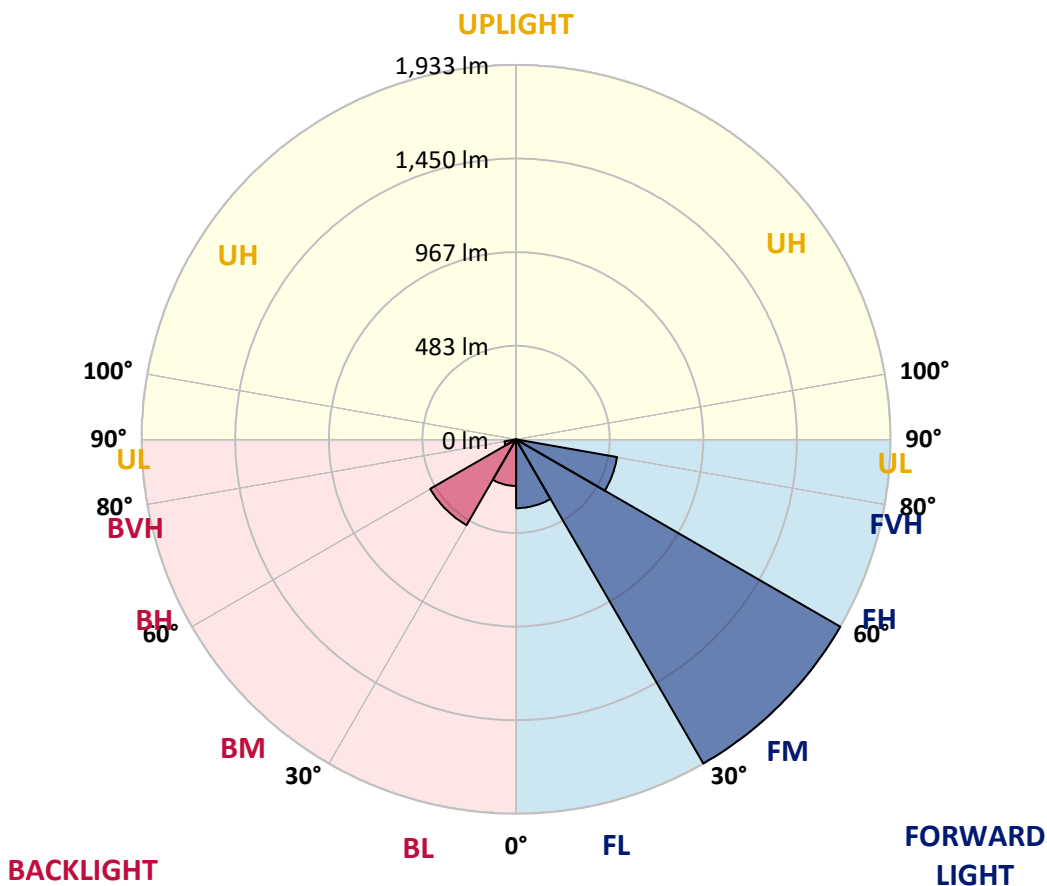
CATALOG NUMBER: GWS-SA2B-735-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	9.8			
FM (30°-60°)	1933.0	53.2			
FH (60°-80°)	529.7	14.6			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	240.6	6.6	B1/500		
BM (30°-60°)	511.6	14.1	B1/1000		
BH (60°-80°)	60.9	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-G0**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	691.4	695.8	703.1	718.8	731.9	740.7	744.6	743.6	738.3	734.4	726.6
5°	765.6	765.6	779.7	815.4	842.7	859.8	868.6	863.2	852.5	835.4	809.0
7.5°	830.5	832.9	856.8	907.6	949.1	973.5	987.6	984.7	965.7	933.0	880.3
10°	881.2	884.2	915.9	977.9	1026.6	1051.5	1072.5	1074.5	1053.5	1010.1	949.6
12.5°	930.5	933.5	966.6	1026.2	1069.1	1079.3	1097.9	1105.2	1099.8	1069.1	1006.2
15°	983.7	990.5	1018.8	1063.2	1081.3	1069.1	1081.3	1094.5	1112.5	1109.6	1053.0
17.5°	1035.9	1040.8	1069.6	1085.2	1065.2	1033.5	1039.3	1055.0	1095.9	1136.0	1099.4
20°	1084.2	1091.1	1115.0	1094.5	1034.0	984.7	985.2	1005.7	1068.1	1152.1	1146.7
22.5°	1135.0	1145.2	1162.3	1104.7	1005.2	946.1	948.6	967.1	1046.2	1167.2	1200.4
25°	1201.3	1211.1	1222.3	1130.1	995.9	927.1	936.4	953.5	1046.2	1193.0	1266.7
27.5°	1291.1	1297.9	1298.4	1177.4	1012.0	930.0	949.6	969.1	1077.4	1244.8	1355.5
30°	1403.8	1414.6	1400.4	1251.1	1062.3	969.1	997.9	1022.3	1144.7	1332.1	1486.3
32.5°	1540.9	1556.1	1537.0	1360.4	1167.2	1103.7	1156.0	1170.1	1252.1	1458.5	1634.6
35°	1702.0	1714.7	1694.2	1511.7	1412.1	1423.8	1518.5	1500.4	1467.8	1614.1	1807.9
37.5°	1878.6	1890.3	1850.8	1741.0	1774.2	1824.9	1976.2	1914.2	1808.8	1814.7	1995.7
40°	2040.6	2053.3	1991.3	1990.4	2058.7	2151.4	2333.9	2248.5	2105.0	2077.2	2171.9
42.5°	2208.5	2217.2	2161.1	2123.1	2278.2	2469.0	2662.3	2547.1	2301.2	2270.9	2392.4
45°	2448.1	2466.6	2366.6	2188.5	2475.9	2834.5	3103.9	2878.9	2434.9	2410.5	2730.1
47.5°	2800.4	2814.0	2610.1	2229.4	2659.8	3289.8	3655.7	3309.3	2552.5	2496.8	3191.7
50°	3091.7	3100.9	2834.0	2274.3	2855.5	3780.6	4284.7	3819.7	2684.7	2639.8	3622.5
52.5°	3306.4	3341.5	3128.3	2366.6	3112.6	4357.9	4981.0	4424.3	2891.1	2916.0	3979.7
55°	3350.8	3398.6	3329.3	2423.2	3339.0	4945.9	5624.1	4965.4	3097.0	3125.3	4099.8
57.5°	2944.8	2982.8	3040.4	2194.8	3333.7	5215.2	5997.4	5145.0	3003.3	2802.8	3650.4
60°	2206.0	2232.4	2336.8	1677.6	3065.8	4977.1	5706.6	4839.5	2626.2	2138.7	2781.3
62.5°	1308.2	1319.9	1452.1	1086.7	2544.7	4286.2	4732.6	4175.9	2075.3	1438.5	1703.4
65°	502.1	497.2	598.2	536.3	1871.3	3414.2	3520.1	3183.4	1423.8	659.2	649.5
67.5°	77.6	74.2	100.0	158.6	1349.7	2366.1	2322.6	2294.3	892.0	153.7	134.2
70°	17.6	17.6	21.5	46.8	824.6	1390.2	1487.8	1418.5	570.9	32.7	17.6
72.5°	8.3	8.3	10.2	20.0	298.6	572.9	667.5	657.3	185.4	10.7	6.3
75°	2.9	3.4	3.4	4.4	18.1	29.8	68.3	48.8	11.7	0.0	0.0
77.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	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	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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	709.5	706.1	693.4	676.3	659.7	645.1	629.9	611.9	598.7	583.6	578.7
5°	788.5	767.1	732.4	696.3	663.1	634.8	607.5	578.2	556.8	535.3	528.0
7.5°	855.4	823.7	767.5	713.4	668.0	628.0	588.5	548.5	517.2	491.9	484.0
10°	915.4	878.8	803.7	736.8	679.7	633.4	585.5	535.3	494.8	464.5	457.2
12.5°	967.1	924.7	834.4	754.4	684.6	631.4	585.1	545.0	508.4	473.8	464.5
15°	1010.5	963.7	860.3	766.1	677.3	607.0	566.5	560.2	557.2	519.2	501.1
17.5°	1053.0	1000.3	881.2	771.5	656.8	564.1	534.8	563.6	594.3	569.4	546.5
20°	1097.4	1037.4	902.7	772.4	622.6	515.8	510.9	556.3	595.3	587.5	566.0
22.5°	1149.6	1083.7	929.5	771.9	579.7	474.8	493.3	542.1	573.8	573.3	556.3
25°	1225.2	1142.3	965.7	774.9	532.8	443.1	473.8	518.2	544.1	543.1	528.9
27.5°	1306.2	1212.1	1012.5	782.2	492.8	424.5	450.9	485.5	508.0	507.0	494.8
30°	1419.9	1292.6	1057.4	782.7	464.0	414.8	425.5	449.4	470.9	468.4	459.2
32.5°	1558.0	1383.3	1095.0	754.9	446.0	405.5	399.1	411.3	427.9	424.5	422.1
35°	1724.9	1491.2	1127.2	693.9	418.2	386.9	369.9	372.3	384.0	386.0	385.0
37.5°	1915.2	1619.5	1167.2	613.4	380.6	360.1	337.2	335.2	342.1	348.4	353.3
40°	2103.1	1763.9	1221.3	531.9	346.4	326.0	304.0	299.1	302.0	313.3	323.5
42.5°	2314.4	1931.3	1279.9	462.1	323.0	288.4	267.4	258.1	266.4	284.5	296.7
45°	2618.8	2166.0	1337.0	406.5	313.3	255.2	226.9	225.9	235.2	258.6	272.3
47.5°	3046.3	2469.5	1374.6	363.0	312.8	229.3	195.7	201.5	212.3	235.2	250.8
50°	3463.0	2849.6	1333.1	329.9	302.5	212.3	172.2	184.0	194.7	214.7	230.8
52.5°	3714.3	3054.1	1171.6	298.6	270.8	204.5	149.3	169.8	171.8	189.8	206.9
55°	3687.9	2921.9	897.3	250.3	224.0	193.2	125.4	153.2	154.2	167.9	182.5
57.5°	3201.0	2508.6	616.3	203.0	168.3	159.6	103.4	129.3	138.6	146.9	157.6
60°	2385.6	1830.3	274.7	164.9	106.9	107.8	88.3	97.6	111.7	121.5	130.8
62.5°	1405.8	1053.0	111.7	99.1	59.0	67.8	71.2	71.2	80.0	87.3	93.2
65°	531.4	368.4	45.4	49.8	30.7	31.7	42.0	51.7	58.6	64.9	72.7
67.5°	93.2	64.4	23.4	18.5	18.1	16.1	21.5	33.7	37.6	42.5	45.9
70°	15.6	13.2	9.8	9.3	8.3	8.8	14.2	23.9	26.3	27.8	29.3
72.5°	4.4	3.9	2.9	2.4	2.0	2.4	8.8	18.5	19.5	20.5	22.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.2	14.2	14.6	16.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.9	4.9	3.9
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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	575.8	566.0	560.7	557.7	557.7	553.8	549.4	548.0	554.3	554.3	565.0
5°	518.7	510.9	502.1	496.7	488.4	489.9	485.0	484.5	490.9	493.8	505.0
7.5°	479.2	469.4	464.0	460.6	456.2	454.3	449.9	448.4	451.8	456.7	467.5
10°	452.8	451.4	450.9	453.3	453.3	450.9	447.0	444.5	445.5	454.8	467.0
12.5°	459.6	462.6	463.6	467.5	469.4	467.5	464.5	465.5	471.8	488.9	507.0
15°	489.4	487.0	486.0	488.0	489.4	487.5	486.5	493.8	515.8	540.2	560.7
17.5°	521.1	505.5	498.7	498.7	499.7	498.7	499.7	513.8	549.4	573.8	589.0
20°	537.2	508.4	497.7	495.3	497.2	497.7	501.1	517.2	556.3	573.3	576.8
22.5°	532.4	496.2	484.0	482.1	484.0	486.0	489.4	503.1	539.7	548.5	547.0
25°	508.0	472.3	462.6	462.6	467.0	466.5	467.9	477.7	508.0	513.3	510.9
27.5°	477.2	443.5	435.3	440.1	444.0	443.1	443.5	451.8	474.3	475.8	473.3
30°	446.0	416.7	408.9	414.8	420.1	419.1	419.6	427.9	442.1	440.6	437.2
32.5°	414.3	392.8	386.9	390.4	398.7	397.7	399.6	408.4	413.8	407.4	403.5
35°	385.0	373.8	369.4	371.3	377.7	379.1	382.6	388.4	388.4	380.6	373.8
37.5°	357.7	356.2	353.3	350.8	356.7	361.1	366.0	372.8	363.0	351.8	345.5
40°	332.3	338.6	334.7	328.4	331.8	338.2	347.9	353.3	341.6	330.3	319.6
42.5°	308.9	319.6	318.1	310.3	313.3	319.1	330.3	334.7	321.1	308.4	298.1
45°	286.4	301.6	302.5	292.8	295.7	301.6	314.7	316.2	298.6	285.0	277.6
47.5°	266.9	283.5	284.0	276.7	277.6	285.9	298.1	298.6	278.6	265.9	256.7
50°	248.4	267.4	268.9	262.5	263.5	273.3	283.5	281.5	260.1	246.9	238.6
52.5°	225.9	251.8	255.2	252.3	256.2	264.0	270.3	263.5	238.6	225.4	218.1
55°	201.5	235.2	242.5	240.6	245.0	251.3	252.8	248.4	217.1	204.0	197.1
57.5°	173.2	193.7	206.4	202.5	205.9	212.3	216.7	213.2	189.8	179.6	173.7
60°	143.5	157.1	160.0	153.7	150.8	162.0	172.2	167.9	147.8	141.5	134.7
62.5°	104.9	120.5	122.5	114.2	110.8	123.0	131.7	127.4	105.4	98.6	93.2
65°	83.9	98.6	102.5	94.7	92.7	102.0	107.3	96.6	81.0	73.7	67.8
67.5°	55.1	66.8	77.1	76.6	72.7	75.6	71.7	62.9	51.7	47.8	43.9
70°	34.2	41.0	47.3	49.8	49.3	48.3	42.9	36.6	33.2	31.7	29.8
72.5°	26.3	33.2	38.1	39.5	40.0	38.5	34.2	28.3	24.9	22.9	21.5
75°	19.5	24.9	28.8	30.7	31.7	30.7	26.3	22.4	19.0	17.6	16.1
77.5°	6.8	8.3	10.2	11.2	10.7	10.2	9.3	9.3	7.3	6.8	5.9
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-SA2B-735-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	577.2	586.0	602.1	616.8	632.4	648.5	666.1	684.1	692.4	691.4
5°	522.1	541.1	567.5	596.3	628.5	663.1	701.7	741.2	758.3	765.6
7.5°	487.5	514.3	548.9	585.5	628.0	677.3	735.3	797.3	822.2	830.5
10°	491.9	523.1	551.9	587.5	632.9	696.8	769.0	842.7	872.0	881.2
12.5°	527.5	534.3	542.1	571.4	628.5	711.4	799.8	887.6	921.3	930.5
15°	559.7	528.0	513.3	540.2	612.9	721.7	831.0	935.9	973.0	983.7
17.5°	561.1	513.3	480.6	501.6	587.5	726.1	861.7	985.2	1025.7	1035.9
20°	543.1	497.2	455.3	455.7	552.8	725.1	887.1	1029.6	1075.0	1084.2
22.5°	516.7	478.2	434.8	419.6	515.8	723.1	914.9	1076.9	1126.2	1135.0
25°	487.5	453.8	415.2	392.3	478.7	725.1	953.9	1138.9	1193.0	1201.3
27.5°	455.7	427.0	400.1	381.6	447.5	732.4	1000.8	1217.9	1282.3	1291.1
30°	422.6	401.1	390.4	379.1	427.9	734.4	1051.5	1310.1	1391.6	1403.8
32.5°	389.9	378.2	378.7	380.6	409.4	720.7	1097.9	1412.6	1521.4	1540.9
35°	359.6	356.2	366.0	375.7	382.6	685.6	1138.4	1533.6	1682.0	1702.0
37.5°	333.8	336.7	348.9	358.6	353.3	635.8	1192.1	1684.9	1861.5	1878.6
40°	308.9	316.2	330.3	334.7	330.8	577.7	1256.5	1830.8	2017.2	2040.6
42.5°	285.9	291.3	311.3	312.3	324.5	518.7	1318.4	1987.9	2196.3	2208.5
45°	267.4	266.4	286.9	293.3	332.8	453.3	1378.9	2197.2	2430.5	2448.1
47.5°	249.3	248.4	253.2	282.0	336.2	392.8	1439.0	2503.7	2770.1	2800.4
50°	232.3	233.7	218.6	276.7	317.7	346.4	1466.3	2787.2	3079.0	3091.7
52.5°	217.1	211.8	185.4	259.1	278.1	302.5	1388.7	2916.0	3270.2	3306.4
55°	195.7	165.9	152.7	210.3	219.6	264.0	1137.4	2841.3	3286.8	3350.8
57.5°	167.4	130.3	129.8	155.2	155.2	245.0	728.5	2427.6	2832.6	2944.8
60°	128.8	101.0	107.3	107.8	99.5	178.6	408.9	1758.6	2094.3	2206.0
62.5°	91.7	77.1	81.0	64.4	57.1	89.3	196.2	1012.5	1292.6	1308.2
65°	61.5	52.2	42.5	35.6	35.1	38.1	81.0	366.0	445.0	502.1
67.5°	40.5	31.7	22.4	22.4	25.4	25.4	30.7	60.5	84.9	77.6
70°	26.3	22.0	14.2	13.7	16.6	16.6	15.6	16.6	17.6	17.6
72.5°	19.5	16.6	8.3	7.3	9.3	9.8	8.8	8.3	8.3	8.3
75°	14.6	11.7	4.9	3.4	4.4	5.9	4.9	3.4	3.4	2.9
77.5°	5.9	4.4	2.0	1.5	2.4	3.4	2.9	1.5	1.0	1.0
80°	0.5	1.0	1.0	1.0	1.5	2.0	2.4	1.0	0.5	0.5
82.5°	0.0	0.5	0.5	0.5	1.0	1.5	2.0	1.0	0.5	0.5
85°	0.0	0.0	0.0	0.0	1.0	1.5	1.0	0.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.5	1.0	0.5	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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