

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: P632759

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632759
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-SA2D-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: 6175.2 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

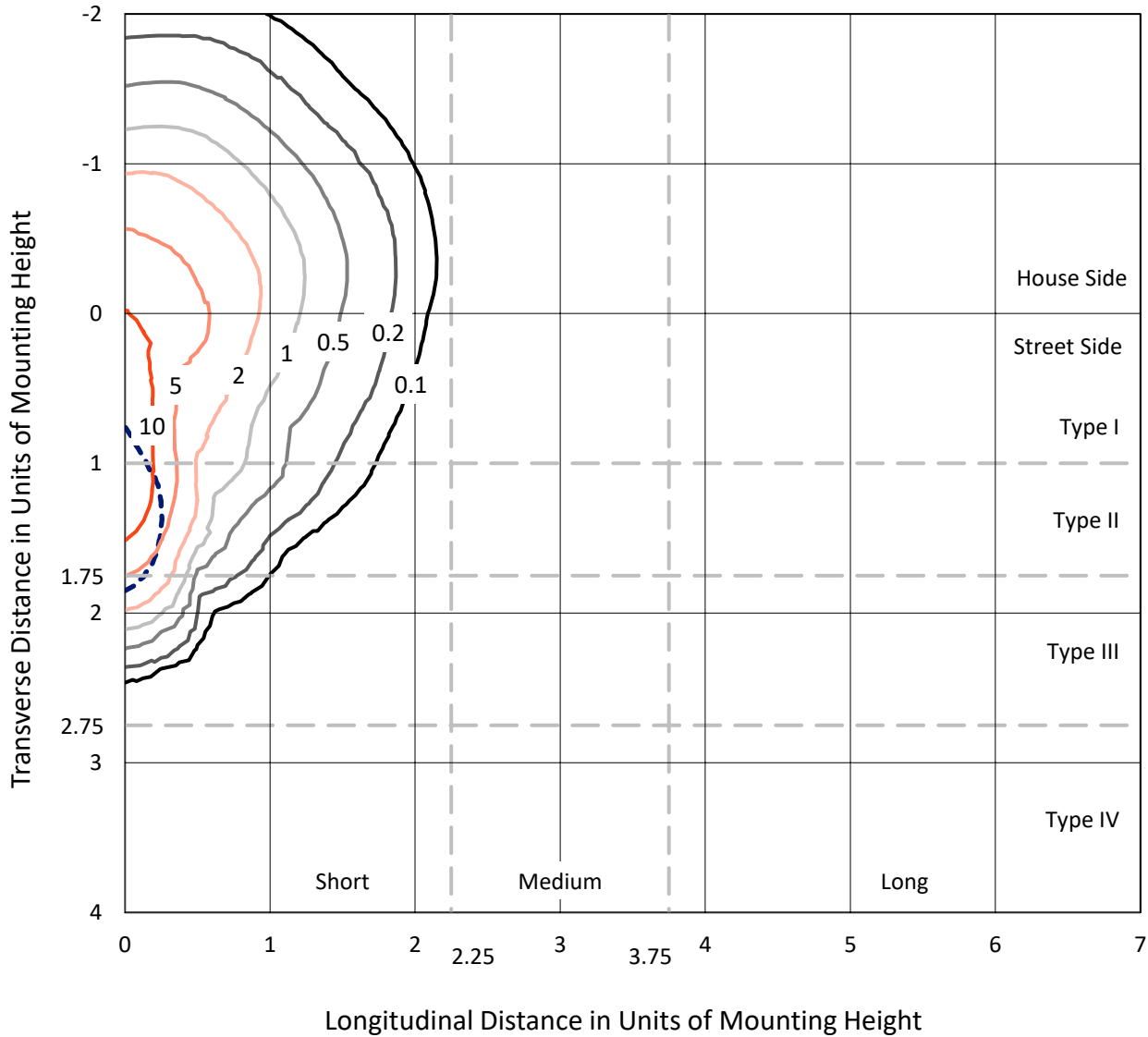
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

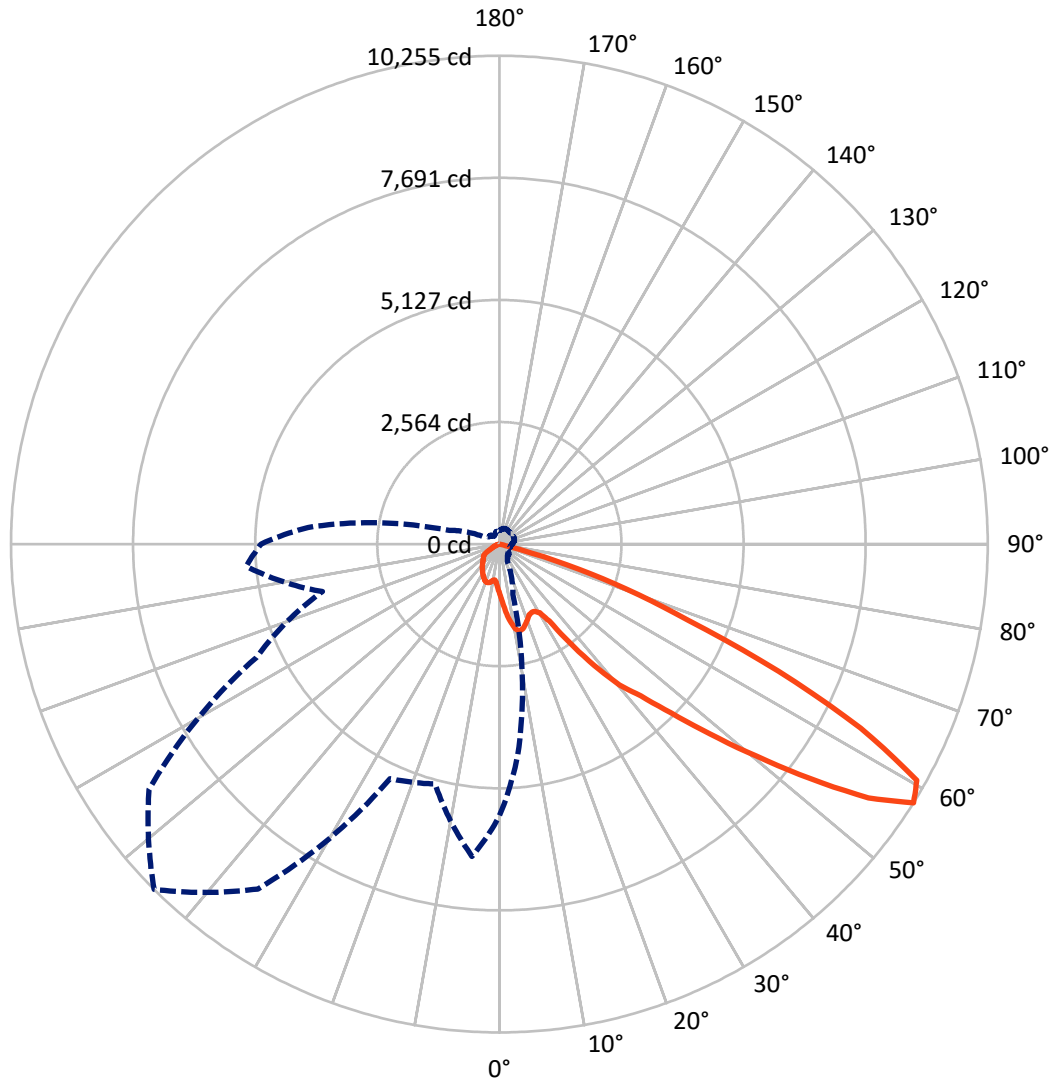
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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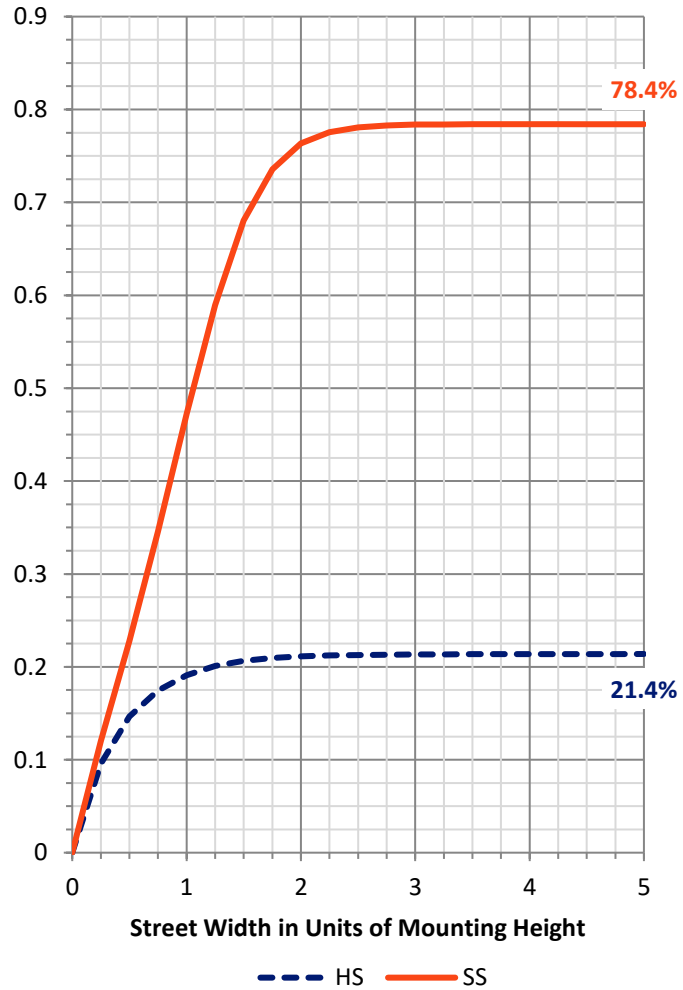
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.3	0.0	1330.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4844.9	0.0	4844.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	6175.2	0.0	6175.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.7
10°-20°	341.2	5.5
20°-30°	553.8	9.0
30°-40°	850.0	13.8
40°-50°	1357.4	22.0
50°-60°	1900.7	30.8
60°-70°	974.5	15.8
70°-80°	93.8	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°	6175.2	100.0
0°-180°	6175.2	100.0

Coefficient of Utilization



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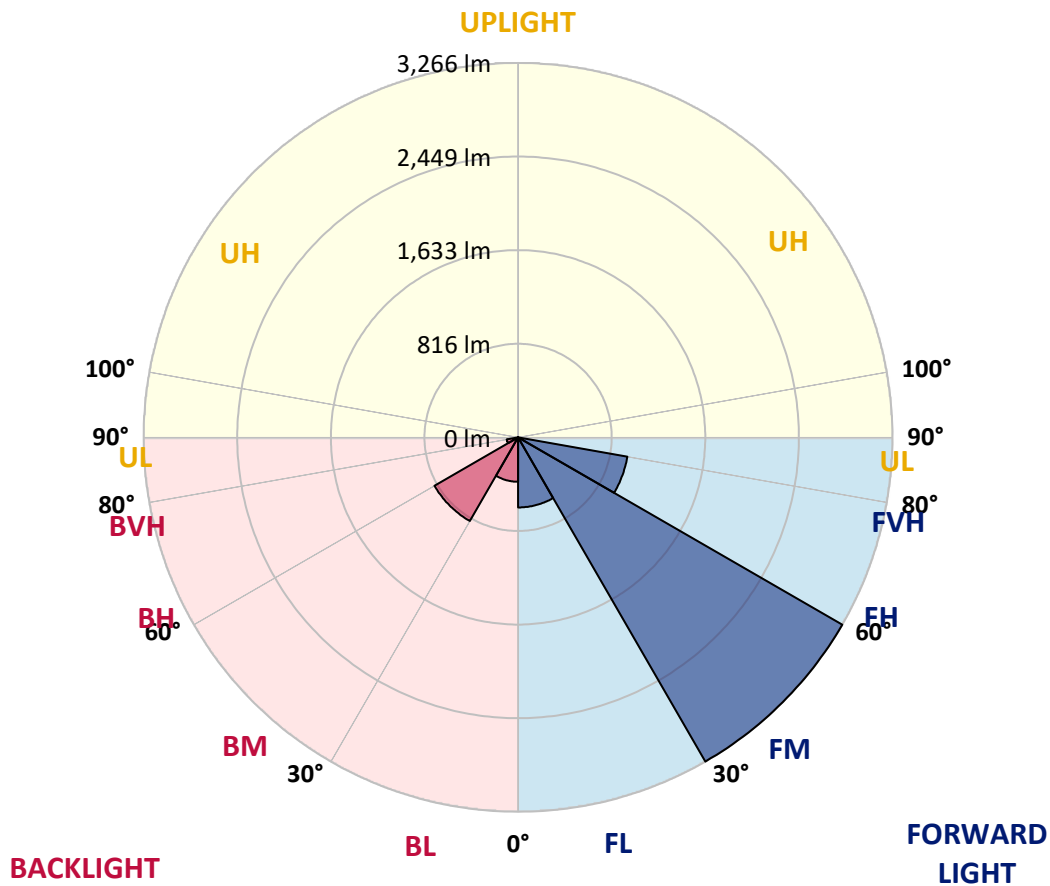
CATALOG NUMBER: GWS-SA2D-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.4	9.9			
FM (30°-60°)	3265.6	52.9			
FH (60°-80°)	967.9	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	387.4	6.3	B1/500		
BM (30°-60°)	842.5	13.6	B1/1000		
BH (60°-80°)	100.5	1.6	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°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1165.7	1163.2	1154.9	1126.9	1109.5	1082.3	1062.5	1036.9	1008.8	991.5	974.1
5°	1289.5	1282.9	1260.6	1196.2	1146.7	1093.0	1050.1	1003.0	952.7	919.6	889.1
7.5°	1408.4	1398.5	1368.7	1259.8	1184.6	1107.9	1046.8	978.3	907.3	857.7	819.8
10°	1524.8	1502.5	1455.4	1321.7	1220.1	1127.7	1055.9	977.4	894.1	831.3	789.2
12.5°	1620.5	1604.0	1539.6	1380.3	1249.9	1131.8	1043.5	970.8	914.7	872.6	833.8
15°	1703.1	1684.9	1623.8	1433.1	1275.5	1115.3	991.5	927.9	937.0	953.5	920.5
17.5°	1779.0	1760.0	1694.0	1476.9	1285.4	1074.8	918.8	888.3	938.6	1000.6	988.2
20°	1857.5	1836.0	1755.1	1512.4	1282.1	1011.3	845.4	854.4	925.4	996.4	1003.0
22.5°	1949.1	1926.8	1832.7	1557.8	1279.6	935.3	781.8	824.7	900.7	960.9	972.5
25°	2070.4	2044.0	1940.8	1624.7	1286.2	866.0	736.4	795.8	858.6	913.0	919.6
27.5°	2230.6	2196.8	2065.5	1707.2	1300.2	811.5	716.6	756.2	804.9	853.6	859.4
30°	2439.5	2396.5	2208.3	1779.0	1293.6	773.5	703.4	716.6	745.5	785.1	785.9
32.5°	2683.8	2625.2	2368.5	1840.9	1236.7	745.5	685.2	676.1	682.7	713.3	719.0
35°	2971.1	2895.2	2545.1	1899.6	1132.6	691.0	652.2	621.6	619.2	634.0	648.0
37.5°	3300.5	3209.7	2768.0	1974.7	1009.6	634.0	603.5	572.9	559.7	567.1	588.6
40°	3604.3	3503.6	3000.8	2065.5	884.2	582.8	546.5	515.1	499.5	501.9	528.3
42.5°	3960.9	3856.9	3285.6	2184.4	780.1	548.2	487.1	454.9	434.2	445.8	476.3
45°	4502.5	4384.4	3700.9	2287.6	697.6	539.9	435.1	389.7	379.7	399.6	435.9
47.5°	5242.2	5097.7	4271.3	2350.3	627.4	547.3	398.7	336.8	339.3	361.6	397.9
50°	5976.1	5820.0	4930.9	2267.8	569.6	532.5	380.6	295.5	311.2	331.0	364.1
52.5°	6480.5	6277.4	5252.1	2029.2	516.8	476.3	378.9	256.7	286.5	293.1	321.1
55°	6500.3	6250.1	5087.8	1599.9	445.0	402.0	361.6	224.5	259.2	261.7	285.6
57.5°	5697.9	5471.7	4446.3	1098.8	395.4	294.7	288.1	196.5	213.0	233.6	248.5
60°	4334.9	4142.5	3325.3	503.6	300.5	187.4	197.3	169.2	159.3	189.9	204.7
62.5°	2654.9	2531.9	1994.5	222.9	191.5	99.9	119.7	134.6	119.7	131.3	143.6
65°	1054.2	999.7	757.0	94.9	78.4	50.4	54.5	78.4	84.2	92.5	104.0
67.5°	183.3	173.4	127.1	42.1	32.2	30.5	26.4	36.3	51.2	57.0	66.0
70°	23.9	23.1	20.6	17.3	16.5	14.9	11.6	23.1	34.7	36.3	42.1
72.5°	5.8	5.0	5.0	4.1	5.0	1.7	1.7	12.4	24.8	25.6	29.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	15.7	17.3	20.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	960.1	943.6	937.8	929.6	918.8	922.1	907.3	902.3	909.7	919.6	917.2
5°	872.6	854.4	842.0	823.1	819.8	812.3	807.4	800.8	809.0	820.6	823.1
7.5°	803.2	787.6	775.2	769.4	765.3	762.0	752.1	747.1	747.1	752.1	756.2
10°	773.5	762.0	759.5	761.1	767.7	766.9	757.8	751.2	743.0	738.9	743.8
12.5°	814.8	795.8	792.5	793.3	801.6	800.8	790.9	782.6	781.0	782.6	798.3
15°	885.0	856.1	834.6	830.5	834.6	833.0	825.5	820.6	823.1	847.0	873.4
17.5°	947.7	903.1	864.3	849.5	848.7	846.2	838.7	837.1	849.5	894.1	932.9
20°	965.9	922.1	866.8	847.8	843.7	841.2	833.0	835.4	851.1	904.8	937.8
22.5°	941.9	899.8	842.0	823.1	819.8	818.9	810.7	814.0	827.2	874.2	901.5
25°	896.5	861.0	800.8	784.3	784.3	782.6	775.2	776.8	785.1	826.4	852.8
27.5°	841.2	807.4	757.0	740.5	743.0	745.5	736.4	733.9	740.5	779.3	795.0
30°	777.7	753.7	714.1	699.2	698.4	708.3	695.9	692.6	701.7	732.3	735.6
32.5°	715.7	704.2	676.1	664.6	665.4	667.0	660.4	660.4	668.7	685.2	684.4
35°	655.5	648.0	643.1	634.8	634.0	630.7	630.7	632.4	641.4	647.2	636.5
37.5°	597.7	605.1	610.9	602.6	596.0	596.0	596.0	603.5	611.7	609.2	591.1
40°	546.5	562.2	580.4	571.3	555.6	554.8	558.1	570.4	582.8	568.0	551.5
42.5°	502.8	522.6	548.2	543.2	525.9	523.4	525.9	541.6	551.5	532.5	514.3
45°	459.8	484.6	515.1	515.1	496.1	493.7	494.5	515.1	520.9	498.6	475.5
47.5°	423.5	450.7	482.9	482.9	467.3	462.3	466.4	487.9	492.0	460.6	439.2
50°	388.8	418.5	454.0	451.6	440.8	436.7	444.1	467.3	462.3	427.6	405.3
52.5°	345.1	376.4	425.2	427.6	421.8	422.7	431.8	446.6	432.6	390.5	371.5
55°	305.4	337.6	386.4	399.6	399.6	398.7	402.9	414.4	402.9	352.5	329.4
57.5°	262.5	289.8	330.2	333.5	336.0	326.9	332.7	348.4	342.6	299.7	286.5
60°	215.5	238.6	261.7	264.2	253.4	234.5	245.2	263.3	267.5	235.3	220.4
62.5°	152.7	175.0	202.3	202.3	191.5	172.5	186.6	202.3	196.5	163.5	154.4
65°	113.9	134.6	155.2	164.3	155.2	142.0	152.7	164.3	155.2	128.0	114.7
67.5°	73.5	87.5	99.9	107.3	109.0	107.3	112.3	109.0	98.2	80.1	72.6
70°	44.6	52.0	58.6	65.2	70.2	72.6	75.1	67.7	57.0	47.1	44.6
72.5°	32.2	38.8	44.6	49.5	55.3	57.0	57.0	52.0	42.1	33.0	30.5
75°	22.3	28.1	33.0	36.3	41.3	42.9	42.9	38.8	31.4	23.9	21.5
77.5°	0.8	5.8	5.8	5.0	6.6	8.3	8.3	9.9	9.1	6.6	5.8
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°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	922.1	951.8	960.1	990.6	1017.9	1045.1	1078.2	1098.0	1127.7	1148.3	1159.9
5°	831.3	856.1	885.8	931.2	978.3	1030.3	1093.0	1147.5	1216.0	1266.4	1282.9
7.5°	765.3	797.5	832.1	889.1	953.5	1022.8	1111.2	1200.3	1305.2	1373.7	1417.4
10°	752.9	785.9	832.1	888.3	956.0	1035.2	1143.4	1258.9	1390.2	1473.6	1523.1
12.5°	812.3	847.8	867.6	893.2	944.4	1032.7	1171.4	1318.4	1472.8	1563.6	1616.4
15°	899.8	931.2	899.0	866.8	899.8	1006.3	1187.1	1367.9	1545.4	1650.2	1704.7
17.5°	960.1	962.6	892.4	823.9	833.0	958.4	1192.9	1417.4	1623.0	1732.8	1789.8
20°	954.3	934.5	863.5	787.6	759.5	896.5	1186.3	1461.2	1701.4	1816.2	1872.3
22.5°	909.7	886.6	826.4	752.1	697.6	823.1	1174.7	1500.8	1773.3	1903.7	1956.5
25°	856.1	831.3	781.8	716.6	658.0	752.1	1165.7	1555.3	1864.1	2017.6	2058.9
27.5°	793.3	771.9	729.8	682.7	641.4	698.4	1163.2	1627.1	1973.9	2156.3	2185.2
30°	732.3	712.4	679.4	652.2	634.8	667.0	1154.9	1703.9	2105.1	2315.6	2347.0
32.5°	673.6	653.8	633.2	629.1	629.9	655.5	1126.9	1779.9	2261.1	2546.8	2569.9
35°	623.3	600.2	591.9	601.8	620.0	635.7	1047.6	1842.6	2428.7	2798.6	2817.6
37.5°	575.4	552.3	551.5	575.4	595.2	605.1	954.3	1904.5	2654.9	3054.5	3078.4
40°	531.6	508.5	516.8	545.7	561.4	566.3	841.2	1998.6	2894.3	3324.4	3311.2
42.5°	494.5	470.6	475.5	512.7	526.7	539.9	737.2	2077.1	3124.7	3580.4	3576.2
45°	458.2	440.0	436.7	477.2	489.5	542.4	661.3	2137.3	3421.0	3906.4	3913.0
47.5°	422.7	408.6	409.5	426.8	457.3	554.8	596.9	2176.9	3851.1	4423.2	4308.5
50°	390.5	379.7	388.8	369.0	436.7	539.1	541.6	2168.7	4331.6	4918.6	4688.2
52.5°	355.0	352.5	356.6	308.8	403.7	475.5	489.5	2058.9	4557.0	5257.0	5125.8
55°	318.7	317.8	284.8	246.8	337.6	379.7	419.4	1717.9	4549.5	5437.0	5596.3
57.5°	275.7	269.1	216.3	201.4	262.5	264.2	382.2	1125.2	4031.9	5006.1	5336.3
60°	208.9	203.9	158.5	163.5	183.3	169.2	304.6	560.5	3013.2	3899.8	4272.2
62.5°	144.5	137.9	118.1	126.3	118.1	96.6	186.6	277.4	1825.3	2462.6	2800.2
65°	105.7	98.2	80.9	69.3	55.3	55.3	71.0	106.5	706.7	1046.8	1262.2
67.5°	65.2	61.9	47.9	34.7	33.8	36.3	37.1	52.8	113.9	181.6	222.1
70°	42.1	38.8	32.2	22.3	20.6	21.5	22.3	24.8	28.9	31.4	38.0
72.5°	28.9	27.2	23.1	12.4	9.9	10.7	11.6	11.6	14.0	13.2	15.7
75°	20.6	19.0	16.5	5.8	3.3	4.1	5.0	4.1	5.0	3.3	4.1
77.5°	5.8	5.8	4.1	0.8	0.0	0.8	1.7	1.7	0.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1189.6	1208.6	1216.0	1205.3	1214.4	1199.5	1193.7	1171.4	1169.8	1165.7
5°	1349.8	1392.7	1418.3	1434.0	1415.8	1396.0	1366.3	1315.1	1299.4	1289.5
7.5°	1507.4	1574.3	1618.1	1638.7	1633.7	1593.3	1539.6	1453.8	1423.2	1408.4
10°	1644.5	1726.2	1779.0	1804.6	1793.9	1758.4	1681.6	1574.3	1533.8	1524.8
12.5°	1740.2	1815.4	1851.7	1874.0	1874.8	1860.8	1788.1	1680.0	1632.1	1620.5
15°	1800.5	1832.7	1833.5	1846.7	1869.8	1901.2	1867.4	1771.6	1720.4	1703.1
17.5°	1838.5	1803.0	1766.6	1770.0	1807.9	1891.3	1926.0	1852.5	1798.0	1779.0
20°	1865.7	1753.4	1685.7	1686.6	1725.4	1851.7	1966.4	1930.9	1874.8	1857.5
22.5°	1883.1	1709.7	1613.1	1610.6	1651.9	1804.6	2003.6	2024.2	1968.9	1949.1
25°	1918.5	1689.0	1569.3	1583.4	1619.7	1789.8	2053.9	2148.0	2096.9	2070.4
27.5°	1982.1	1709.7	1565.2	1597.4	1638.7	1833.5	2141.4	2313.2	2260.3	2230.6
30°	2091.9	1787.3	1628.8	1673.4	1722.9	1948.3	2288.4	2543.5	2467.5	2439.5
32.5°	2268.6	1948.3	1825.3	1921.0	1968.9	2136.5	2508.8	2801.9	2740.0	2683.8
35°	2512.1	2315.6	2301.6	2524.5	2512.9	2493.1	2779.6	3118.9	3025.6	2971.1
37.5°	2847.3	2906.7	3010.7	3232.0	3224.5	3073.5	3135.4	3418.6	3370.7	3300.5
40°	3265.8	3392.1	3568.8	3885.8	3786.7	3596.9	3572.1	3725.7	3686.8	3604.3
42.5°	3512.7	3730.6	4067.4	4352.2	4273.0	3941.1	3913.0	4135.9	4050.9	3960.9
45°	3627.4	4006.3	4666.8	5052.3	4812.1	4169.8	4159.1	4670.9	4623.0	4502.5
47.5°	3680.2	4284.5	5368.5	5952.1	5503.0	4370.4	4331.6	5446.9	5384.2	5242.2
50°	3738.9	4668.4	6213.8	6994.8	6337.7	4597.4	4625.5	6170.1	6143.6	5976.1
52.5°	3867.6	5074.6	7254.8	8186.9	7349.8	4953.2	5129.9	6852.0	6673.6	6480.5
55°	4060.8	5517.1	8337.9	9404.5	8382.5	5431.2	5675.6	7214.4	6714.1	6500.3
57.5°	3847.0	5627.7	8979.4	10254.8	8840.7	5432.9	5214.1	6586.1	5905.1	5697.9
60°	3052.8	5235.6	8732.5	10070.7	8450.2	4824.4	3992.3	5142.3	4473.6	4334.9
62.5°	2063.8	4391.0	7687.4	8517.1	7232.5	3795.0	2594.7	3344.3	2769.7	2654.9
65°	1131.0	3275.7	6211.3	6443.3	5660.7	2650.8	1334.9	1451.3	1105.4	1054.2
67.5°	312.1	2280.1	4570.2	4274.6	3971.7	1726.2	345.1	259.2	184.9	183.3
70°	78.4	1508.3	2738.3	2822.5	2435.3	1105.4	66.0	31.4	24.8	23.9
72.5°	33.0	648.9	1299.4	1493.4	1246.6	511.8	23.9	9.1	7.4	5.8
75°	4.1	52.0	110.6	167.6	114.7	55.3	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

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