

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: P632820

Luminaire Tested: GWS-SA2D-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7246.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

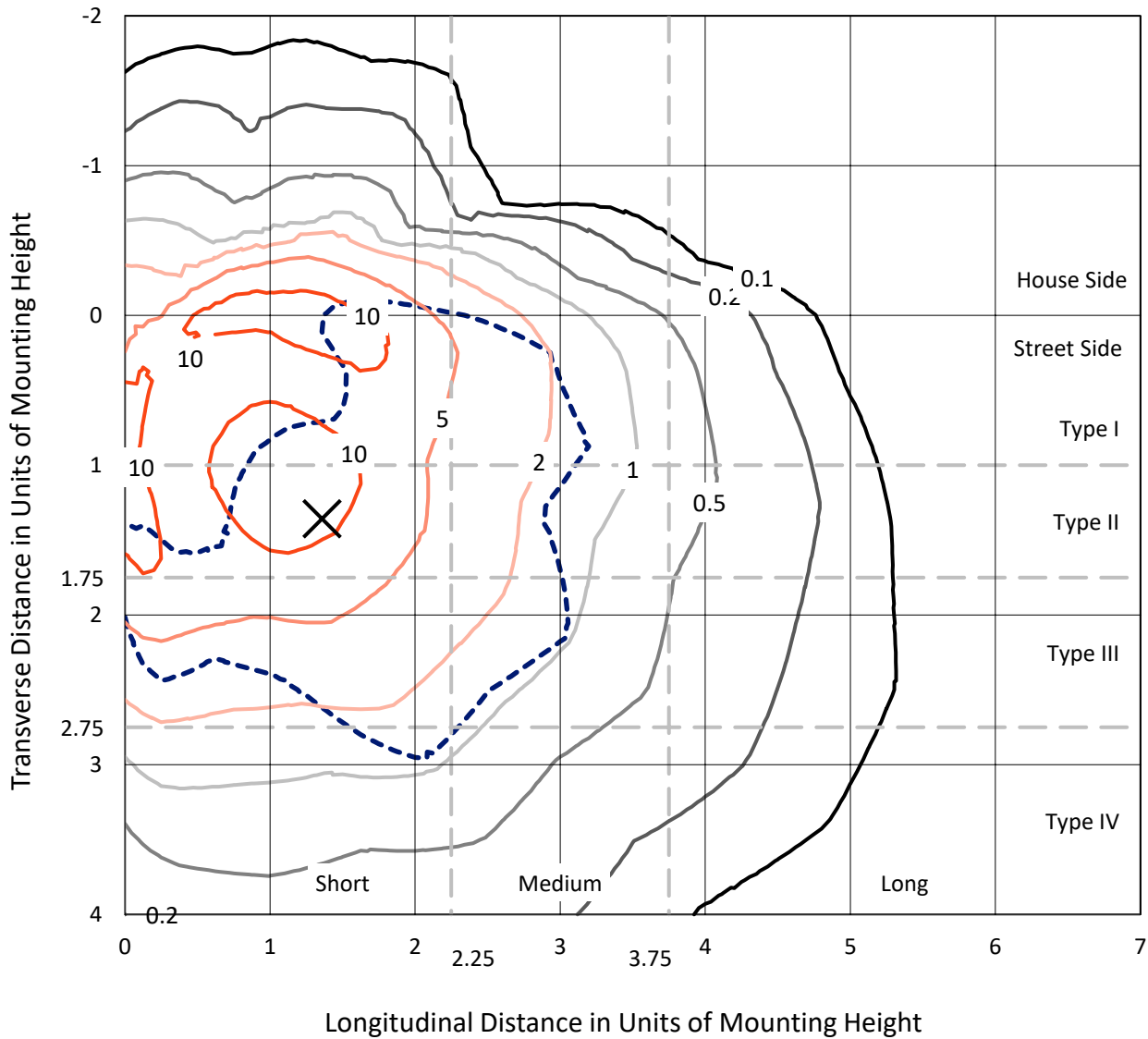
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

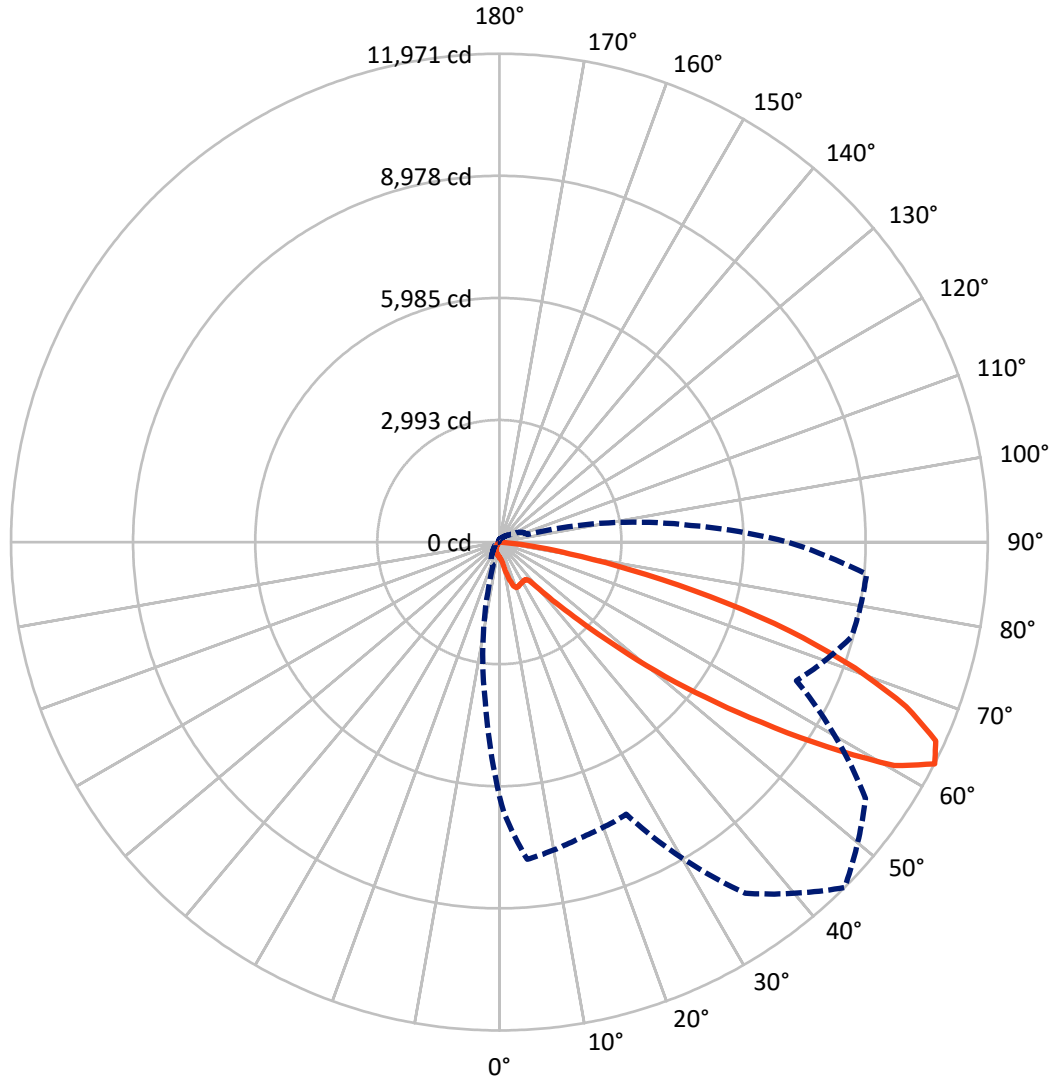
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.2	0.0	894.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6351.9	0.0	6351.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	7246.1	0.0	7246.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	0.5
10°-20°	126.3	1.7
20°-30°	274.6	3.8
30°-40°	450.8	6.2
40°-50°	828.6	11.4
50°-60°	1779.5	24.6
60°-70°	2390.2	33.0
70°-80°	1244.6	17.2
80°-90°	118.0	1.6
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°	7246.1	100.0
0°-180°	7246.1	100.0

Coefficient of Utilization



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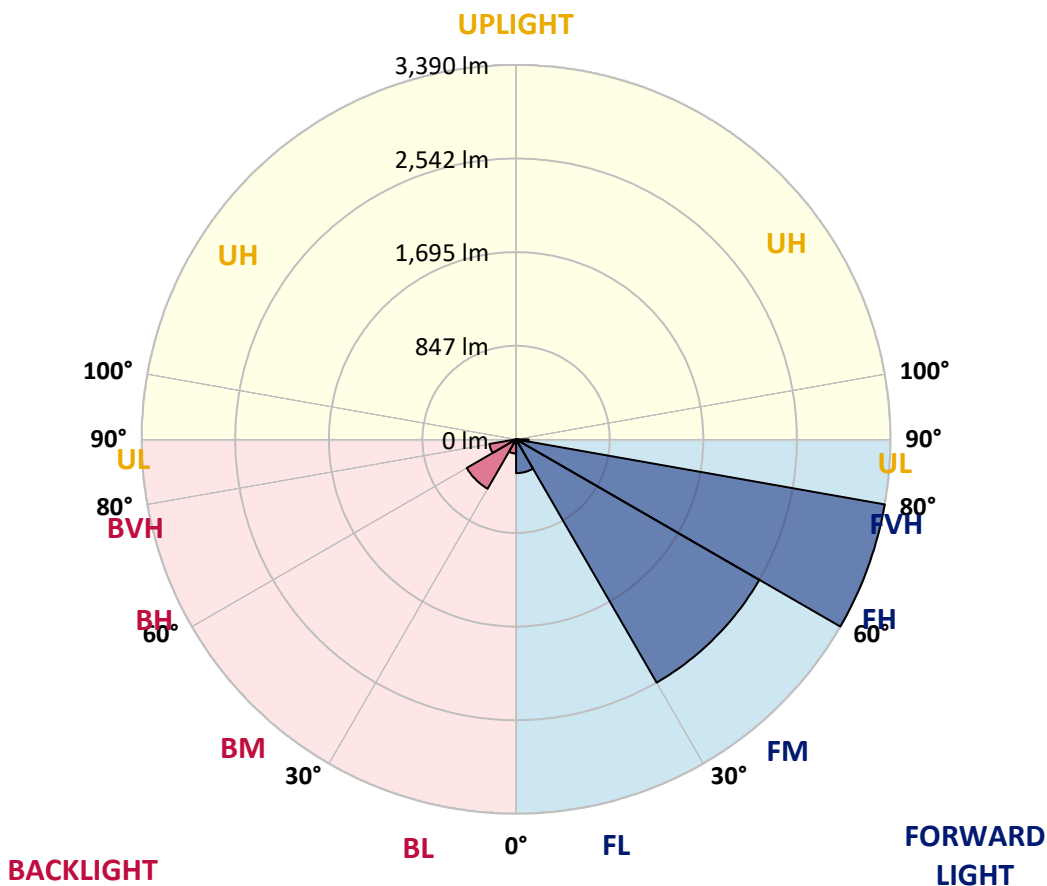
CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.1	4.2			
FM (30°-60°)	2543.3	35.1			
FH (60°-80°)	3389.8	46.8			G2/5000
FVH (80°-90°)	112.7	1.6			G2/225
BL (0°-30°)	128.3	1.8	B1/500		
BM (30°-60°)	515.6	7.1	B1/1000		
BH (60°-80°)	245.0	3.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6
2.5°	384.2	385.9	387.5	393.4	397.6	400.9	401.8	399.2	393.4	387.5	379.2
5°	372.5	374.1	380.0	395.9	411.8	424.4	428.5	426.0	411.8	393.4	374.1
7.5°	371.6	375.0	389.2	422.7	457.0	482.9	489.6	483.8	457.0	420.2	380.8
10°	401.8	407.6	428.5	488.8	551.6	597.6	616.0	590.9	548.2	481.3	416.8
12.5°	480.4	490.5	530.7	618.5	715.6	776.7	801.8	770.9	703.9	606.8	504.7
15°	604.3	619.4	679.6	811.0	925.7	980.1	988.5	970.9	893.1	785.9	648.7
17.5°	779.2	801.0	894.7	1028.7	1111.5	1130.8	1128.3	1109.8	1052.9	979.3	849.5
20°	988.5	1014.4	1106.5	1217.0	1225.4	1202.8	1190.2	1179.3	1160.1	1147.5	1046.2
22.5°	1199.4	1231.2	1327.5	1355.1	1279.8	1214.5	1183.5	1191.9	1220.3	1282.3	1241.3
25°	1409.5	1439.6	1530.0	1455.5	1304.9	1196.1	1156.7	1176.8	1244.6	1378.5	1431.3
27.5°	1654.7	1677.3	1730.9	1524.2	1309.1	1181.0	1142.5	1173.5	1256.3	1438.8	1639.7
30°	1910.0	1923.4	1897.5	1542.6	1294.8	1158.4	1128.3	1173.5	1276.4	1479.0	1796.2
32.5°	2097.5	2100.0	2015.5	1544.2	1287.3	1140.0	1114.9	1168.4	1295.7	1512.4	1947.7
35°	2290.8	2278.3	2128.5	1569.4	1307.4	1146.7	1124.9	1182.7	1325.8	1551.8	2080.8
37.5°	2486.7	2464.1	2254.9	1610.4	1359.3	1219.5	1206.1	1255.5	1374.3	1606.2	2227.2
40°	2687.6	2656.6	2386.3	1672.3	1474.8	1467.2	1513.3	1507.4	1507.4	1675.7	2377.9
42.5°	2932.8	2896.8	2580.4	1847.2	1744.3	1912.5	2038.1	1960.2	1816.3	1835.5	2573.7
45°	3256.7	3225.8	2916.9	2182.0	2167.0	2553.7	2722.7	2568.7	2210.5	2204.6	2901.0
47.5°	3774.8	3769.0	3453.4	2570.4	2684.2	3369.7	3696.1	3399.9	2660.0	2595.5	3520.4
50°	4503.0	4485.4	4122.2	3025.7	3299.4	4380.8	4963.4	4469.5	3203.2	3051.7	4349.8
52.5°	5323.3	5341.7	5058.8	3522.9	3953.1	5505.7	6316.8	5694.9	3793.2	3631.7	5393.6
55°	6095.8	6201.3	6126.8	4104.6	4591.7	6747.8	7803.3	7039.1	4523.9	4390.8	6563.7
57.5°	6700.1	6997.2	7519.5	4950.0	5342.5	8200.8	9463.0	8496.3	5376.8	5623.7	8156.5
60°	6733.6	7127.0	8339.8	6718.5	6308.4	9447.1	11120.3	9920.0	6717.7	7717.0	9404.4
62.5°	6228.9	6650.7	7805.8	7522.0	7360.5	10507.6	11970.6	10957.9	8036.8	8943.2	9034.5
65°	5651.4	6077.4	7209.8	6610.5	7238.3	10462.4	11754.7	10982.1	8156.5	8109.6	8372.4
67.5°	4778.4	5160.9	6186.2	5851.4	6671.6	9957.7	10757.0	10290.0	7514.5	7584.8	7702.0
70°	3487.7	3856.0	4807.7	4824.4	5826.3	9047.9	9242.9	9178.4	6920.2	6994.7	6659.9
72.5°	2519.3	2829.9	3651.0	3956.5	4651.2	7587.3	7452.6	7701.1	5937.6	6229.7	5349.2
75°	1811.2	2043.9	2678.4	3441.7	3686.9	5634.6	5335.0	5964.4	4764.1	5364.3	4021.7
77.5°	734.9	816.9	1053.8	2318.5	2423.1	3790.7	3265.9	4332.3	3396.5	3524.6	1949.3
80°	30.1	33.5	43.5	1196.9	1661.4	2132.7	1747.6	2316.0	2243.1	1419.5	460.3
82.5°	3.3	3.3	7.5	344.8	727.3	1176.8	823.6	1334.2	1135.8	601.8	209.2
85°	0.8	0.8	1.7	39.3	170.7	188.3	111.3	409.3	528.1	246.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.5	8.4	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°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6
2.5°	379.2	375.0	369.9	364.9	362.4	355.7	353.2	351.5	349.9	350.7	350.7
5°	366.6	357.4	346.5	335.6	329.8	323.1	319.7	318.1	318.9	322.2	322.2
7.5°	364.9	347.4	323.9	309.7	303.0	298.0	294.6	292.9	293.8	298.0	299.6
10°	392.5	361.6	319.7	295.5	287.9	282.9	279.6	277.0	275.4	278.7	279.6
12.5°	452.0	409.3	339.8	293.8	280.4	273.7	271.2	266.2	263.7	265.3	266.2
15°	575.0	501.4	380.0	300.5	273.7	266.2	262.0	257.8	253.6	252.8	253.6
17.5°	735.7	630.3	441.1	316.4	268.7	259.5	253.6	247.7	241.9	241.1	240.2
20°	934.9	788.4	526.5	341.5	264.5	253.6	245.2	236.9	229.3	226.8	226.8
22.5°	1116.5	979.3	636.1	372.5	258.6	245.2	235.2	225.2	216.8	212.6	211.8
25°	1338.3	1181.8	767.5	408.5	250.3	234.4	223.5	213.4	205.1	200.0	198.4
27.5°	1561.8	1395.3	916.5	455.3	240.2	223.5	213.4	204.2	195.0	189.2	187.5
30°	1778.6	1625.4	1083.9	513.9	232.7	212.6	204.2	195.0	186.6	177.4	174.9
32.5°	2011.3	1860.6	1271.4	579.2	226.8	205.1	195.9	187.5	176.6	168.2	164.1
35°	2235.6	2103.4	1478.1	642.8	221.0	198.4	188.3	180.0	168.2	159.0	153.2
37.5°	2461.6	2350.3	1694.1	681.3	212.6	189.2	180.0	173.3	159.9	149.0	142.3
40°	2701.0	2605.6	1927.6	665.4	205.1	179.1	174.1	166.6	151.5	138.9	130.6
42.5°	2963.8	2849.1	2165.3	604.3	198.4	170.7	165.7	158.2	144.0	128.9	118.0
45°	3294.4	3116.1	2360.3	512.2	201.7	162.4	152.3	150.7	137.3	118.0	104.6
47.5°	3862.7	3526.2	2511.8	452.8	224.3	153.2	141.5	145.6	131.4	107.1	92.1
50°	4732.3	4205.9	2653.3	448.6	258.6	149.0	131.4	142.3	125.5	96.3	81.2
52.5°	5561.0	4896.4	2743.7	485.5	288.8	159.9	121.4	138.1	121.4	88.7	73.7
55°	6353.6	5294.8	2582.1	512.2	317.2	192.5	113.8	131.4	116.3	84.5	71.1
57.5°	7208.2	5472.2	2033.0	566.6	337.3	220.1	115.5	121.4	109.6	82.0	70.3
60°	7463.4	5245.4	1227.0	637.8	326.4	228.5	128.1	108.0	100.4	77.0	67.8
62.5°	7066.7	4707.2	724.0	580.9	317.2	215.9	146.5	99.6	91.2	70.3	62.8
65°	6473.3	3976.5	472.1	490.5	336.5	192.5	155.7	95.4	82.9	63.6	55.2
67.5°	5795.3	3203.2	330.6	289.6	310.5	173.3	131.4	94.6	74.5	53.6	45.2
70°	4881.3	2398.8	232.7	191.7	258.6	154.0	102.1	92.1	65.3	43.5	35.2
72.5°	3771.5	1501.6	173.3	123.9	184.1	125.5	81.2	77.8	52.7	36.0	26.8
75°	2781.3	856.2	122.2	89.6	121.4	95.4	60.3	55.2	45.2	34.3	24.3
77.5°	1452.2	428.5	76.2	68.6	69.5	59.4	43.5	40.2	41.8	34.3	22.6
80°	278.7	85.4	46.0	50.2	37.7	37.7	31.8	33.5	36.8	27.6	19.3
82.5°	116.3	18.4	25.1	28.5	23.4	25.9	25.9	26.8	25.9	20.1	14.2
85°	0.0	0.0	10.9	11.7	15.9	15.9	13.4	13.4	13.4	11.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.8	2.5	5.0	5.9	6.7	5.0	3.3
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°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6
2.5°	349.9	348.2	350.7	352.4	354.0	354.0	352.4	350.7	348.2	350.7	348.2
5°	323.1	325.6	329.8	331.4	333.1	329.8	328.1	323.1	318.9	319.7	318.1
7.5°	302.2	304.7	309.7	313.0	313.0	311.4	306.3	301.3	294.6	294.6	293.8
10°	282.9	286.3	292.1	296.3	298.0	296.3	291.3	284.6	278.7	278.7	276.2
12.5°	267.0	271.2	277.9	283.7	285.4	283.7	278.7	272.0	265.3	265.3	263.7
15°	253.6	258.6	266.2	272.9	275.4	272.9	267.0	258.6	251.9	252.8	250.3
17.5°	241.1	245.2	255.3	262.8	265.3	262.8	255.3	244.4	237.7	239.4	237.7
20°	226.8	231.8	241.9	250.3	252.8	250.3	241.9	230.2	223.5	223.5	224.3
22.5°	211.8	216.8	226.8	232.7	236.0	233.5	225.2	214.3	207.6	207.6	208.4
25°	198.4	200.9	208.4	214.3	215.1	212.6	205.9	197.5	192.5	195.0	195.9
27.5°	185.8	185.8	189.2	192.5	191.7	189.2	186.6	180.0	179.1	181.6	184.1
30°	172.4	168.2	166.6	164.1	163.2	162.4	164.9	164.9	166.6	169.9	172.4
32.5°	160.7	152.3	144.8	137.3	133.1	136.4	143.1	149.0	154.8	159.9	162.4
35°	147.3	133.9	121.4	111.3	104.6	109.6	120.5	131.4	141.5	148.1	152.3
37.5°	133.9	114.7	99.6	87.0	82.0	86.2	97.9	113.0	128.1	136.4	142.3
40°	119.7	95.4	77.8	67.8	62.8	67.0	78.7	93.7	113.8	124.7	132.2
42.5°	105.5	78.7	62.8	52.7	50.2	52.7	61.9	77.0	98.8	112.2	122.2
45°	91.2	65.3	50.2	42.7	40.2	42.7	50.2	62.8	84.5	99.6	111.3
47.5°	78.7	55.2	41.8	35.2	33.5	36.0	41.8	52.7	71.1	86.2	99.6
50°	68.6	48.5	36.0	30.1	28.5	31.0	36.0	44.4	60.3	73.7	87.9
52.5°	61.9	45.2	31.8	25.9	25.1	26.8	31.0	37.7	51.1	62.8	76.2
55°	60.3	45.2	29.3	23.4	22.6	24.3	27.6	32.6	44.4	54.4	66.1
57.5°	61.9	48.5	27.6	20.1	19.3	20.9	24.3	28.5	38.5	46.9	57.8
60°	61.9	49.4	24.3	15.9	15.1	16.7	20.1	25.1	34.3	41.0	50.2
62.5°	56.1	45.2	20.1	12.6	10.9	12.6	16.7	20.9	30.1	36.8	44.4
65°	48.5	38.5	16.7	9.2	7.5	9.2	13.4	17.6	25.9	31.8	40.2
67.5°	39.3	29.3	12.6	6.7	5.0	6.7	10.0	14.2	21.8	27.6	36.0
70°	29.3	20.9	10.0	5.9	5.0	5.9	9.2	13.4	19.3	25.1	33.5
72.5°	21.8	14.2	8.4	5.9	4.2	5.9	8.4	12.6	18.4	24.3	31.8
75°	18.4	11.7	7.5	5.0	4.2	5.0	7.5	11.7	16.7	22.6	30.1
77.5°	17.6	10.9	6.7	4.2	3.3	4.2	6.7	10.0	15.1	20.9	29.3
80°	15.1	9.2	5.9	3.3	2.5	3.3	5.9	8.4	11.7	15.9	22.6
82.5°	11.7	7.5	4.2	1.7	0.8	1.7	4.2	5.0	7.5	9.2	13.4
85°	7.5	4.2	1.7	0.0	0.0	0.0	1.7	3.3	3.3	4.2	6.7
87.5°	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5
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-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6
2.5°	353.2	354.0	355.7	358.2	364.1	369.1	374.1	380.8	384.2	384.2
5°	319.7	320.6	321.4	324.8	333.1	339.8	350.7	364.1	370.8	372.5
7.5°	293.8	295.5	297.1	299.6	308.0	317.2	331.4	356.6	369.1	371.6
10°	278.7	281.2	284.6	289.6	297.1	307.2	331.4	376.6	397.6	401.8
12.5°	267.0	271.2	274.5	280.4	289.6	305.5	354.0	433.6	470.4	480.4
15°	255.3	260.3	265.3	271.2	281.2	311.4	397.6	535.7	596.8	604.3
17.5°	243.6	249.4	256.1	262.8	275.4	325.6	466.2	677.1	762.5	779.2
20°	230.2	237.7	246.9	255.3	269.5	348.2	561.6	845.4	952.5	988.5
22.5°	215.9	225.2	236.0	246.9	262.8	375.8	677.1	1026.1	1176.0	1199.4
25°	204.2	213.4	223.5	234.4	251.9	409.3	816.9	1250.5	1386.9	1409.5
27.5°	193.3	202.6	211.8	221.8	241.1	452.8	985.1	1489.0	1631.3	1654.7
30°	181.6	192.5	201.7	211.8	231.0	506.4	1179.3	1753.5	1888.2	1910.0
32.5°	171.6	182.5	191.7	201.7	223.5	565.0	1383.5	1987.9	2097.5	2097.5
35°	163.2	174.9	181.6	195.0	217.6	602.6	1576.9	2211.3	2294.2	2290.8
37.5°	154.0	168.2	173.3	182.5	210.1	606.8	1758.5	2447.4	2508.5	2486.7
40°	144.8	159.9	167.4	172.4	201.7	572.5	1957.7	2664.1	2716.0	2687.6
42.5°	136.4	148.1	159.0	164.9	196.7	512.2	2117.6	2896.0	2957.9	2932.8
45°	128.1	138.1	144.8	155.7	200.0	470.4	2254.9	3166.3	3275.1	3256.7
47.5°	119.7	128.1	132.2	149.0	222.6	451.1	2338.6	3584.8	3789.9	3774.8
50°	110.5	120.5	120.5	147.3	256.1	457.8	2411.4	4190.8	4508.0	4503.0
52.5°	101.3	112.2	110.5	159.9	282.1	488.8	2494.2	4725.6	5277.2	5323.3
55°	92.1	102.1	103.8	185.0	297.1	515.6	2173.7	4950.8	5934.3	6095.8
57.5°	82.0	87.9	108.0	204.2	292.1	593.4	1489.0	4991.8	6353.6	6700.1
60°	71.1	76.2	122.2	200.0	276.2	548.2	937.4	4623.5	6294.2	6733.6
62.5°	61.9	70.3	128.9	176.6	281.2	475.4	597.6	3940.5	5727.5	6228.9
65°	54.4	67.8	117.2	159.9	284.6	322.2	403.4	3205.7	5174.3	5651.4
67.5°	48.5	75.3	96.3	142.3	244.4	226.8	277.0	2490.9	4350.7	4778.4
70°	44.4	77.0	78.7	122.2	189.2	145.6	182.5	1676.5	2998.9	3487.7
72.5°	40.2	56.9	59.4	97.9	122.2	88.7	118.0	959.2	2186.2	2519.3
75°	38.5	38.5	41.0	63.6	67.8	64.4	76.2	572.5	1567.7	1811.2
77.5°	36.0	29.3	25.9	41.0	36.8	46.0	45.2	254.4	679.6	734.9
80°	28.5	20.9	17.6	25.9	25.1	31.0	26.8	20.9	31.0	30.1
82.5°	17.6	13.4	12.6	15.9	14.2	15.9	12.6	3.3	3.3	3.3
85°	8.4	7.5	6.7	6.7	7.5	6.7	5.0	1.7	0.8	0.8
87.5°	4.2	4.2	3.3	2.5	3.3	3.3	2.5	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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