

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: P633260

Luminaire Tested: GWS-SA2E-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633260
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-SA2E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8931 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

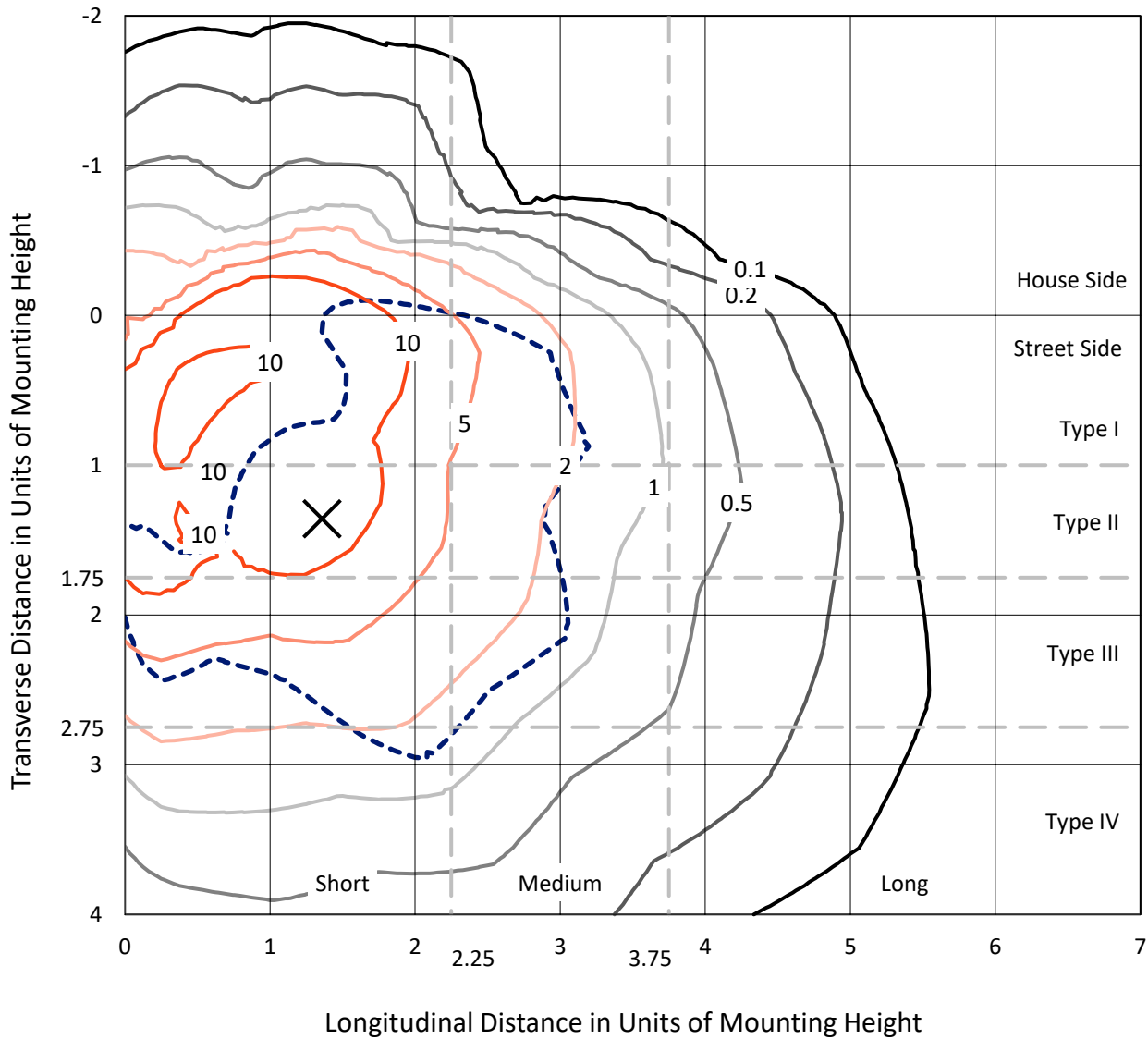
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

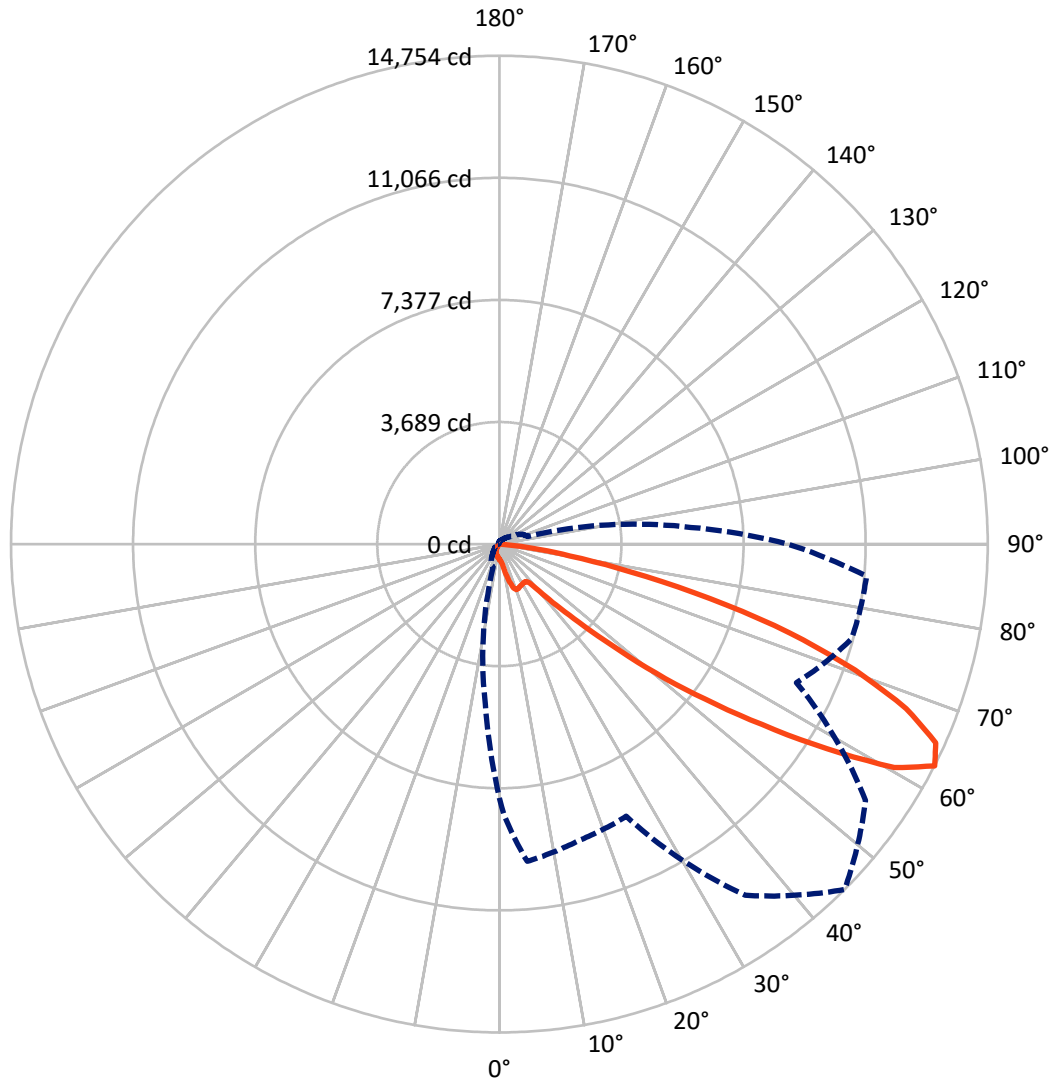
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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	1102.1	0.0	1102.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7828.9	0.0	7828.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	8931.0	0.0	8931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	0.5
10°-20°	155.7	1.7
20°-30°	338.5	3.8
30°-40°	555.6	6.2
40°-50°	1021.3	11.4
50°-60°	2193.3	24.6
60°-70°	2946.0	33.0
70°-80°	1534.0	17.2
80°-90°	145.5	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°	8931.0	100.0
0°-180°	8931.0	100.0

Coefficient of Utilization

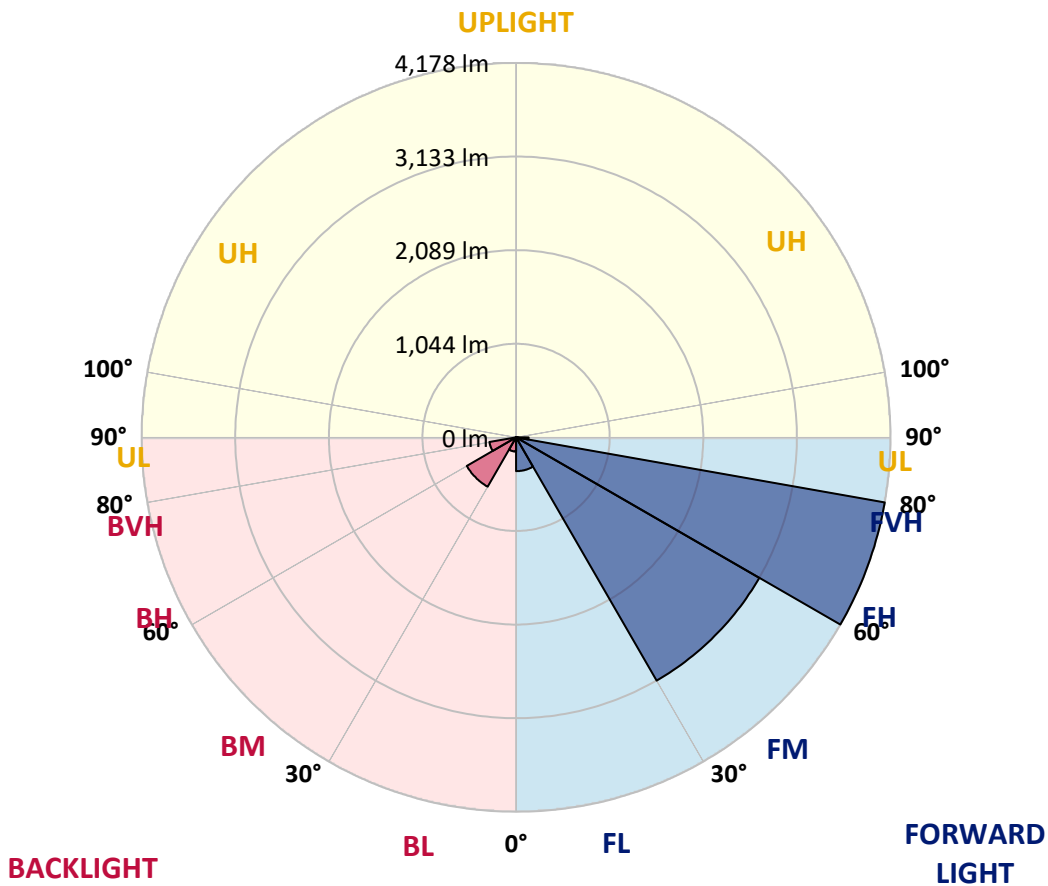


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.3	4.2			
FM (30°-60°)	3134.7	35.1			
FH (60°-80°)	4178.0	46.8			G2/5000
FVH (80°-90°)	139.0	1.6			G2/225
BL (0°-30°)	158.1	1.8	B1/500		
BM (30°-60°)	635.5	7.1	B1/1000		
BH (60°-80°)	302.0	3.4	B1/500		G1/500
BVH (80°-90°)	6.5	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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	473.5	475.6	477.6	484.9	490.0	494.1	495.2	492.1	484.9	477.6	467.3
5°	459.1	461.1	468.4	488.0	507.6	523.0	528.2	525.1	507.6	484.9	461.1
7.5°	458.0	462.2	479.7	521.0	563.3	595.2	603.5	596.3	563.3	517.9	469.4
10°	495.2	502.4	528.2	602.5	679.8	736.6	759.3	728.3	675.7	593.2	513.7
12.5°	592.1	604.5	654.0	762.4	882.0	957.3	988.3	950.1	867.6	747.9	622.1
15°	744.8	763.4	837.7	999.6	1141.0	1208.0	1218.3	1196.7	1100.7	968.7	799.5
17.5°	960.4	987.3	1102.8	1267.9	1370.0	1393.7	1390.6	1367.9	1297.8	1207.0	1047.1
20°	1218.3	1250.3	1363.8	1500.0	1510.3	1482.4	1467.0	1453.5	1429.8	1414.3	1289.5
22.5°	1478.3	1517.5	1636.1	1670.2	1577.3	1496.9	1458.7	1469.0	1504.1	1580.4	1529.9
25°	1737.2	1774.4	1885.8	1794.0	1608.3	1474.2	1425.7	1450.4	1534.0	1699.1	1764.1
27.5°	2039.5	2067.3	2133.4	1878.6	1613.4	1455.6	1408.1	1446.3	1548.4	1773.3	2020.9
30°	2354.1	2370.6	2338.7	1901.3	1595.9	1427.7	1390.6	1446.3	1573.2	1822.9	2213.8
32.5°	2585.2	2588.3	2484.1	1903.3	1586.6	1405.1	1374.1	1440.1	1596.9	1864.1	2400.6
35°	2823.5	2808.0	2623.4	1934.3	1611.4	1413.3	1386.5	1457.7	1634.1	1912.6	2564.6
37.5°	3064.9	3037.1	2779.2	1984.8	1675.3	1503.1	1486.6	1547.4	1693.9	1979.7	2745.1
40°	3312.5	3274.3	2941.1	2061.2	1817.7	1808.4	1865.2	1857.9	1857.9	2065.3	2930.8
42.5°	3614.8	3570.4	3180.5	2276.8	2149.9	2357.2	2512.0	2416.0	2238.6	2262.3	3172.2
45°	4014.0	3975.8	3595.2	2689.4	2670.8	3147.4	3355.8	3166.0	2724.5	2717.3	3575.6
47.5°	4652.6	4645.3	4256.4	3168.1	3308.4	4153.3	4555.6	4190.4	3278.5	3199.0	4339.0
50°	5550.1	5528.4	5080.7	3729.3	4066.6	5399.5	6117.5	5508.8	3948.0	3761.3	5361.3
52.5°	6561.0	6583.7	6235.1	4342.1	4872.3	6785.9	7785.6	7019.1	4675.3	4476.2	6647.7
55°	7513.2	7643.2	7551.4	5059.0	5659.4	8316.8	9617.7	8675.9	5575.9	5411.8	8089.9
57.5°	8258.0	8624.3	9268.0	6100.9	6584.8	10107.7	11663.4	10471.9	6627.1	6931.4	10053.1
60°	8299.3	8784.2	10279.0	8280.7	7775.3	11643.8	13706.0	12226.7	8279.7	9511.5	11591.2
62.5°	7677.3	8197.2	9620.8	9271.1	9072.0	12950.8	14754.1	13505.9	9905.5	11022.8	11135.2
65°	6965.4	7490.5	8886.3	8147.7	8921.4	12895.1	14487.9	13535.8	10053.1	9995.3	10319.2
67.5°	5889.5	6360.9	7624.6	7212.0	8223.0	12273.1	13258.3	12682.6	9261.8	9348.5	9492.9
70°	4298.7	4752.6	5925.6	5946.2	7181.0	11151.7	11392.1	11312.6	8529.4	8621.2	8208.5
72.5°	3105.1	3487.9	4499.9	4876.4	5732.7	9351.6	9185.5	9491.9	7318.3	7678.3	6593.0
75°	2232.4	2519.2	3301.2	4242.0	4544.2	6944.8	6575.5	7351.3	5871.9	6611.6	4956.9
77.5°	905.8	1006.9	1298.8	2857.6	2986.5	4672.2	4025.3	5339.6	4186.3	4344.1	2402.6
80°	37.1	41.3	53.6	1475.2	2047.7	2628.5	2154.0	2854.5	2764.7	1749.6	567.4
82.5°	4.1	4.1	9.3	425.0	896.5	1450.4	1015.1	1644.4	1399.9	741.7	257.9
85°	1.0	1.0	2.1	48.5	210.4	232.1	137.2	504.5	650.9	303.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.3	10.3	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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	467.3	462.2	456.0	449.8	446.7	438.4	435.3	433.3	431.2	432.2	432.2
5°	451.8	440.5	427.1	413.7	406.5	398.2	394.1	392.0	393.0	397.2	397.2
7.5°	449.8	428.1	399.2	381.7	373.4	367.3	363.1	361.1	362.1	367.3	369.3
10°	483.8	445.7	394.1	364.2	354.9	348.7	344.6	341.5	339.4	343.5	344.6
12.5°	557.1	504.5	418.8	362.1	345.6	337.3	334.2	328.1	325.0	327.0	328.1
15°	708.7	617.9	468.4	370.3	337.3	328.1	322.9	317.7	312.6	311.5	312.6
17.5°	906.8	776.8	543.7	389.9	331.1	319.8	312.6	305.4	298.1	297.1	296.1
20°	1152.3	971.8	648.9	420.9	326.0	312.6	302.3	291.9	282.7	279.6	279.6
22.5°	1376.2	1207.0	784.0	459.1	318.8	302.3	289.9	277.5	267.2	262.0	261.0
25°	1649.5	1456.6	946.0	503.4	308.5	288.9	275.4	263.1	252.7	246.6	244.5
27.5°	1925.0	1719.7	1129.6	561.2	296.1	275.4	263.1	251.7	240.4	233.1	231.1
30°	2192.2	2003.4	1335.9	633.4	286.8	262.0	251.7	240.4	230.0	218.7	215.6
32.5°	2479.0	2293.3	1567.0	713.9	279.6	252.7	241.4	231.1	217.7	207.4	202.2
35°	2755.4	2592.4	1821.8	792.3	272.3	244.5	232.1	221.8	207.4	196.0	188.8
37.5°	3034.0	2896.8	2088.0	839.7	262.0	233.1	221.8	213.5	197.0	183.6	175.4
40°	3329.0	3211.4	2375.8	820.1	252.7	220.8	214.6	205.3	186.7	171.2	160.9
42.5°	3652.9	3511.6	2668.8	744.8	244.5	210.4	204.3	195.0	177.4	158.9	145.5
45°	4060.4	3840.7	2909.1	631.3	248.6	200.1	187.8	185.7	169.2	145.5	129.0
47.5°	4760.9	4346.2	3095.9	558.1	276.5	188.8	174.3	179.5	162.0	132.0	113.5
50°	5832.7	5183.8	3270.2	552.9	318.8	183.6	162.0	175.4	154.7	118.6	100.1
52.5°	6854.0	6034.9	3381.6	598.3	355.9	197.0	149.6	170.2	149.6	109.4	90.8
55°	7831.0	6526.0	3182.5	631.3	391.0	237.3	140.3	162.0	143.4	104.2	87.7
57.5°	8884.2	6744.7	2505.8	698.4	415.7	271.3	142.4	149.6	135.1	101.1	86.7
60°	9198.9	6465.1	1512.3	786.1	402.3	281.6	157.8	133.1	123.8	94.9	83.6
62.5°	8709.9	5801.8	892.3	715.9	391.0	266.2	180.5	122.8	112.4	86.7	77.4
65°	7978.5	4901.2	581.8	604.5	414.7	237.3	191.9	117.6	102.1	78.4	68.1
67.5°	7142.9	3948.0	407.5	356.9	382.7	213.5	162.0	116.6	91.8	66.0	55.7
70°	6016.4	2956.6	286.8	236.2	318.8	189.8	125.9	113.5	80.5	53.6	43.3
72.5°	4648.4	1850.7	213.5	152.7	227.0	154.7	100.1	95.9	65.0	44.4	33.0
75°	3428.0	1055.3	150.6	110.4	149.6	117.6	74.3	68.1	55.7	42.3	29.9
77.5°	1789.8	528.2	93.9	84.6	85.6	73.2	53.6	49.5	51.6	42.3	27.9
80°	343.5	105.2	56.7	61.9	46.4	46.4	39.2	41.3	45.4	34.0	23.7
82.5°	143.4	22.7	30.9	35.1	28.9	32.0	32.0	33.0	32.0	24.8	17.5
85°	0.0	0.0	13.4	14.4	19.6	19.6	16.5	16.5	16.5	14.4	10.3
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.2	7.2	8.3	6.2	4.1
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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	431.2	429.2	432.2	434.3	436.4	436.4	434.3	432.2	429.2	432.2	429.2
5°	398.2	401.3	406.5	408.5	410.6	406.5	404.4	398.2	393.0	394.1	392.0
7.5°	372.4	375.5	381.7	385.8	385.8	383.8	377.6	371.4	363.1	363.1	362.1
10°	348.7	352.8	360.0	365.2	367.3	365.2	359.0	350.7	343.5	343.5	340.4
12.5°	329.1	334.2	342.5	349.7	351.8	349.7	343.5	335.3	327.0	327.0	325.0
15°	312.6	318.8	328.1	336.3	339.4	336.3	329.1	318.8	310.5	311.5	308.5
17.5°	297.1	302.3	314.6	323.9	327.0	323.9	314.6	301.2	293.0	295.0	293.0
20°	279.6	285.8	298.1	308.5	311.5	308.5	298.1	283.7	275.4	275.4	276.5
22.5°	261.0	267.2	279.6	286.8	290.9	287.8	277.5	264.1	255.8	255.8	256.9
25°	244.5	247.6	256.9	264.1	265.1	262.0	253.8	243.5	237.3	240.4	241.4
27.5°	229.0	229.0	233.1	237.3	236.2	233.1	230.0	221.8	220.8	223.9	227.0
30°	212.5	207.4	205.3	202.2	201.2	200.1	203.2	203.2	205.3	209.4	212.5
32.5°	198.1	187.8	178.5	169.2	164.0	168.2	176.4	183.6	190.8	197.0	200.1
35°	181.6	165.1	149.6	137.2	129.0	135.1	148.6	162.0	174.3	182.6	187.8
37.5°	165.1	141.3	122.8	107.3	101.1	106.3	120.7	139.3	157.8	168.2	175.4
40°	147.5	117.6	95.9	83.6	77.4	82.5	97.0	115.5	140.3	153.7	163.0
42.5°	130.0	97.0	77.4	65.0	61.9	65.0	76.3	94.9	121.7	138.2	150.6
45°	112.4	80.5	61.9	52.6	49.5	52.6	61.9	77.4	104.2	122.8	137.2
47.5°	97.0	68.1	51.6	43.3	41.3	44.4	51.6	65.0	87.7	106.3	122.8
50°	84.6	59.8	44.4	37.1	35.1	38.2	44.4	54.7	74.3	90.8	108.3
52.5°	76.3	55.7	39.2	32.0	30.9	33.0	38.2	46.4	62.9	77.4	93.9
55°	74.3	55.7	36.1	28.9	27.9	29.9	34.0	40.2	54.7	67.1	81.5
57.5°	76.3	59.8	34.0	24.8	23.7	25.8	29.9	35.1	47.5	57.8	71.2
60°	76.3	60.9	29.9	19.6	18.6	20.6	24.8	30.9	42.3	50.5	61.9
62.5°	69.1	55.7	24.8	15.5	13.4	15.5	20.6	25.8	37.1	45.4	54.7
65°	59.8	47.5	20.6	11.3	9.3	11.3	16.5	21.7	32.0	39.2	49.5
67.5°	48.5	36.1	15.5	8.3	6.2	8.3	12.4	17.5	26.8	34.0	44.4
70°	36.1	25.8	12.4	7.2	6.2	7.2	11.3	16.5	23.7	30.9	41.3
72.5°	26.8	17.5	10.3	7.2	5.2	7.2	10.3	15.5	22.7	29.9	39.2
75°	22.7	14.4	9.3	6.2	5.2	6.2	9.3	14.4	20.6	27.9	37.1
77.5°	21.7	13.4	8.3	5.2	4.1	5.2	8.3	12.4	18.6	25.8	36.1
80°	18.6	11.3	7.2	4.1	3.1	4.1	7.2	10.3	14.4	19.6	27.9
82.5°	14.4	9.3	5.2	2.1	1.0	2.1	5.2	6.2	9.3	11.3	16.5
85°	9.3	5.2	2.1	0.0	0.0	0.0	2.1	4.1	4.1	5.2	8.3
87.5°	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1
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-SA2E-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	435.3	436.4	438.4	441.5	448.8	454.9	461.1	469.4	473.5	473.5
5°	394.1	395.1	396.1	400.3	410.6	418.8	432.2	448.8	457.0	459.1
7.5°	362.1	364.2	366.2	369.3	379.6	391.0	408.5	439.5	454.9	458.0
10°	343.5	346.6	350.7	356.9	366.2	378.6	408.5	464.2	490.0	495.2
12.5°	329.1	334.2	338.4	345.6	356.9	376.5	436.4	534.4	579.8	592.1
15°	314.6	320.8	327.0	334.2	346.6	383.8	490.0	660.2	735.5	744.8
17.5°	300.2	307.4	315.7	323.9	339.4	401.3	574.6	834.6	939.8	960.4
20°	283.7	293.0	304.3	314.6	332.2	429.2	692.2	1041.9	1174.0	1218.3
22.5°	266.2	277.5	290.9	304.3	323.9	463.2	834.6	1264.8	1449.4	1478.3
25°	251.7	263.1	275.4	288.9	310.5	504.5	1006.9	1541.2	1709.4	1737.2
27.5°	238.3	249.6	261.0	273.4	297.1	558.1	1214.2	1835.2	2010.6	2039.5
30°	223.9	237.3	248.6	261.0	284.7	624.1	1453.5	2161.2	2327.3	2354.1
32.5°	211.5	224.9	236.2	248.6	275.4	696.3	1705.3	2450.1	2585.2	2585.2
35°	201.2	215.6	223.9	240.4	268.2	742.8	1943.6	2725.5	2827.6	2823.5
37.5°	189.8	207.4	213.5	224.9	258.9	747.9	2167.4	3016.4	3091.7	3064.9
40°	178.5	197.0	206.3	212.5	248.6	705.6	2412.9	3283.6	3347.6	3312.5
42.5°	168.2	182.6	196.0	203.2	242.4	631.3	2610.0	3569.4	3645.7	3614.8
45°	157.8	170.2	178.5	191.9	246.6	579.8	2779.2	3902.6	4036.7	4014.0
47.5°	147.5	157.8	163.0	183.6	274.4	556.0	2882.3	4418.4	4671.1	4652.6
50°	136.2	148.6	148.6	181.6	315.7	564.3	2972.1	5165.3	5556.3	5550.1
52.5°	124.8	138.2	136.2	197.0	347.7	602.5	3074.2	5824.5	6504.3	6561.0
55°	113.5	125.9	127.9	228.0	366.2	635.5	2679.1	6102.0	7314.1	7513.2
57.5°	101.1	108.3	133.1	251.7	360.0	731.4	1835.2	6152.5	7831.0	8258.0
60°	87.7	93.9	150.6	246.6	340.4	675.7	1155.4	5698.6	7757.7	8299.3
62.5°	76.3	86.7	158.9	217.7	346.6	586.0	736.6	4856.8	7059.3	7677.3
65°	67.1	83.6	144.4	197.0	350.7	397.2	497.2	3951.1	6377.4	6965.4
67.5°	59.8	92.8	118.6	175.4	301.2	279.6	341.5	3070.1	5362.3	5889.5
70°	54.7	94.9	97.0	150.6	233.1	179.5	224.9	2066.3	3696.3	4298.7
72.5°	49.5	70.1	73.2	120.7	150.6	109.4	145.5	1182.2	2694.6	3105.1
75°	47.5	47.5	50.5	78.4	83.6	79.4	93.9	705.6	1932.2	2232.4
77.5°	44.4	36.1	32.0	50.5	45.4	56.7	55.7	313.6	837.7	905.8
80°	35.1	25.8	21.7	32.0	30.9	38.2	33.0	25.8	38.2	37.1
82.5°	21.7	16.5	15.5	19.6	17.5	19.6	15.5	4.1	4.1	4.1
85°	10.3	9.3	8.3	8.3	9.3	8.3	6.2	2.1	1.0	1.0
87.5°	5.2	5.2	4.1	3.1	4.1	4.1	3.1	1.0	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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