

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: P643215

Luminaire Tested: GWS-SA6E-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643215
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-SAGE-740-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27780.7 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

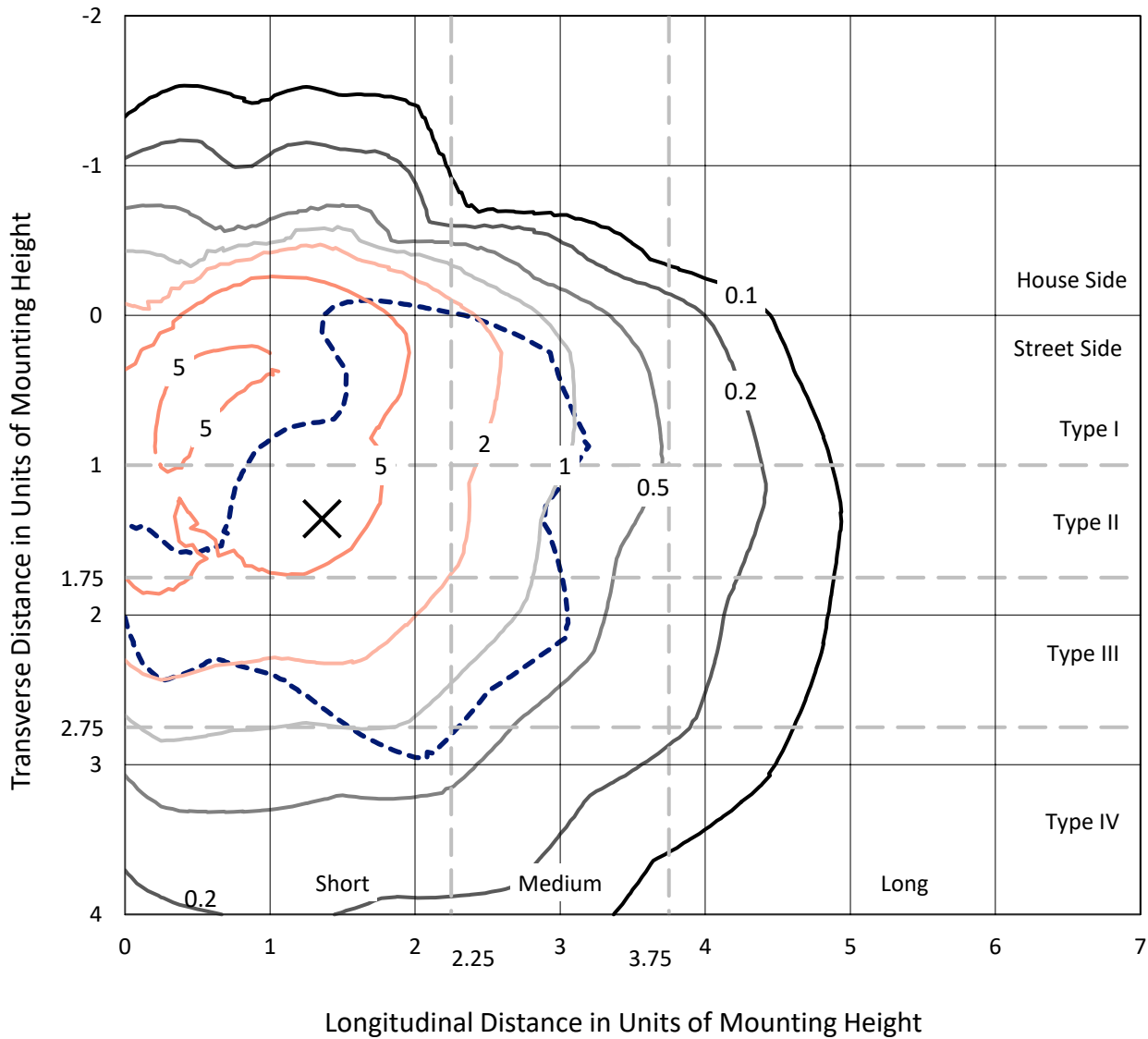
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

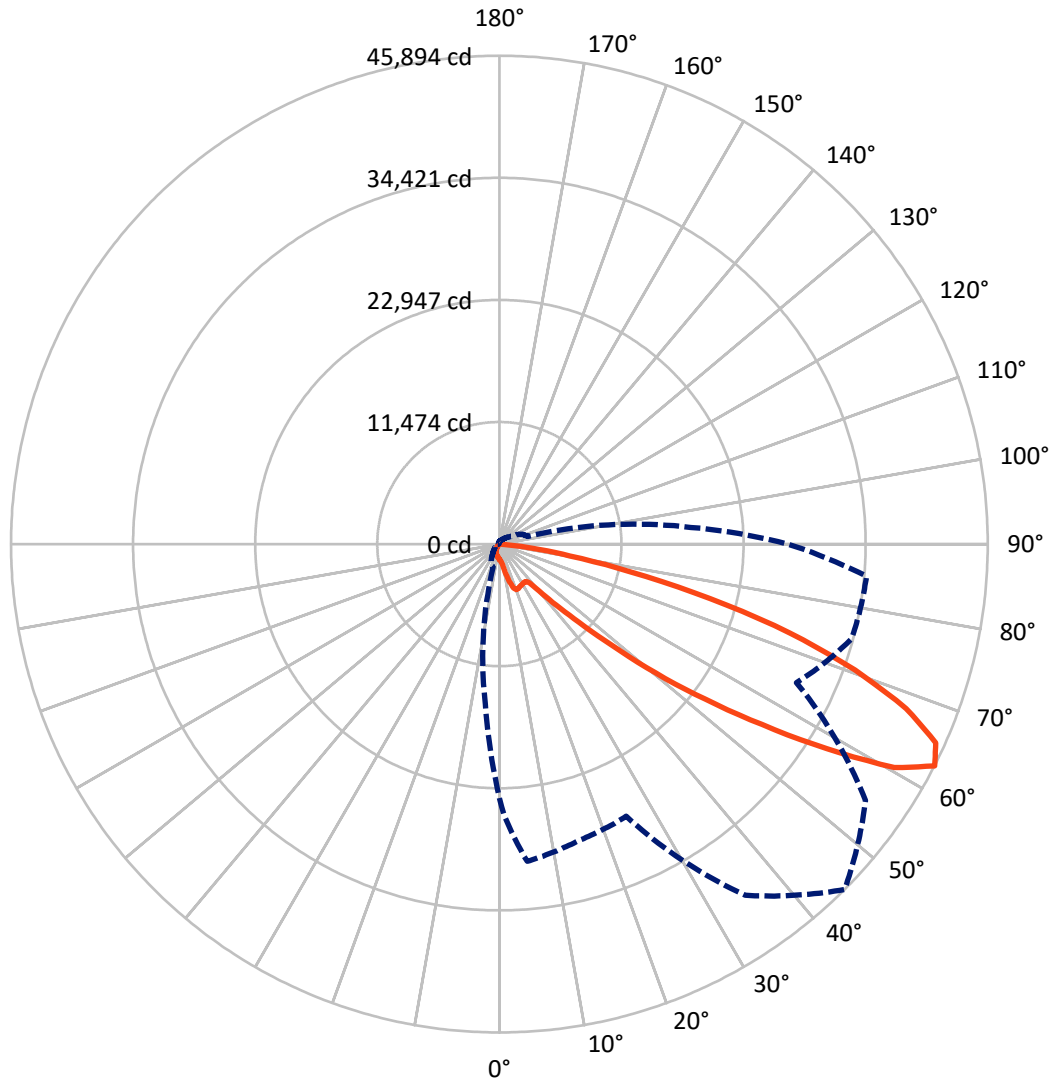
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3428.1	0.0	3428.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24352.6	0.0	24352.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	27780.7	0.0	27780.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	0.5
10°-20°	484.3	1.7
20°-30°	1052.9	3.8
30°-40°	1728.1	6.2
40°-50°	3176.9	11.4
50°-60°	6822.5	24.6
60°-70°	9163.7	33.0
70°-80°	4771.6	17.2
80°-90°	452.4	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°	27780.7	100.0
0°-180°	27780.7	100.0

Coefficient of Utilization



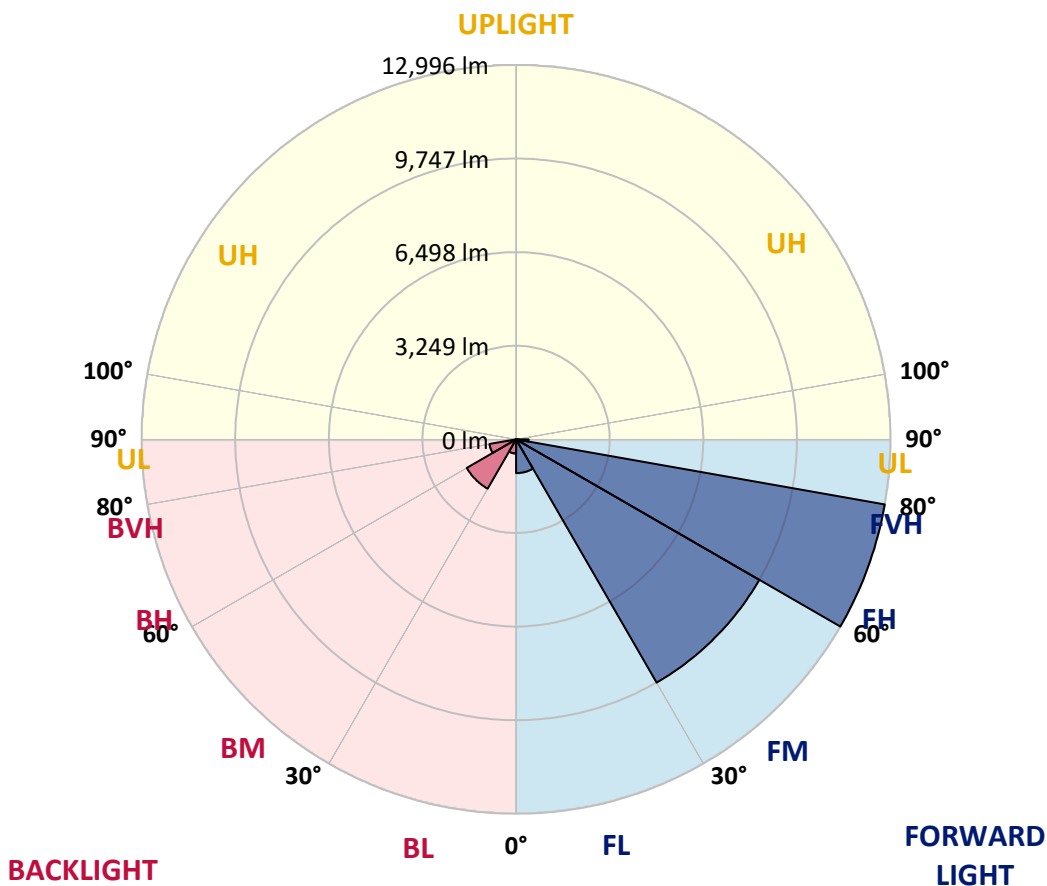
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.6	4.2			
FM (30°-60°)	9750.7	35.1			
FH (60°-80°)	12996.0	46.8			G5
FVH (80°-90°)	432.3	1.6			G3/500
BL (0°-30°)	491.7	1.8	B1/500		
BM (30°-60°)	1976.9	7.1	B2/2500		
BH (60°-80°)	939.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	20.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0
2.5°	1472.9	1479.3	1485.7	1508.2	1524.2	1537.1	1540.3	1530.7	1508.2	1485.7	1453.6
5°	1428.0	1434.4	1456.9	1517.8	1578.8	1626.9	1643.0	1633.3	1578.8	1508.2	1434.4
7.5°	1424.8	1437.6	1492.1	1620.5	1752.1	1851.5	1877.2	1854.8	1752.1	1610.9	1460.1
10°	1540.3	1562.7	1643.0	1874.0	2114.7	2291.2	2361.8	2265.5	2101.8	1845.1	1598.0
12.5°	1841.9	1880.4	2034.5	2371.4	2743.6	2977.9	3074.1	2955.4	2698.7	2326.5	1935.0
15°	2316.8	2374.6	2605.6	3109.4	3549.1	3757.6	3789.7	3722.3	3423.9	3013.2	2486.9
17.5°	2987.5	3070.9	3430.3	3943.8	4261.4	4335.3	4325.6	4255.0	4036.8	3754.4	3257.1
20°	3789.7	3889.2	4242.2	4665.8	4697.9	4611.2	4563.1	4521.4	4447.6	4399.4	4011.2
22.5°	4598.4	4720.3	5089.4	5195.2	4906.4	4656.1	4537.4	4569.5	4678.6	4916.1	4758.8
25°	5403.8	5519.3	5865.9	5580.3	5002.7	4585.5	4434.7	4511.7	4771.7	5285.1	5487.3
27.5°	6344.0	6430.7	6636.1	5843.4	5018.8	4527.8	4380.2	4498.9	4816.6	5516.1	6286.3
30°	7322.8	7374.1	7274.6	5914.0	4964.2	4441.1	4325.6	4498.9	4893.6	5670.2	6886.3
32.5°	8041.6	8051.2	7727.1	5920.5	4935.3	4370.6	4274.3	4479.7	4967.4	5798.5	7467.2
35°	8782.8	8734.7	8160.3	6016.7	5012.3	4396.2	4312.8	4534.2	5082.9	5949.3	7977.4
37.5°	9533.7	9447.1	8644.8	6174.0	5211.3	4675.4	4624.1	4813.4	5269.0	6157.9	8538.9
40°	10303.8	10185.1	9148.6	6411.4	5654.1	5625.2	5801.7	5779.3	5779.3	6424.3	9116.5
42.5°	11244.1	11106.1	9893.1	7082.1	6687.4	7332.4	7813.7	7515.3	6963.4	7037.2	9867.4
45°	12485.9	12367.2	11183.1	8365.7	8307.9	9790.4	10438.6	9848.2	8474.8	8452.3	11122.1
47.5°	14472.2	14449.8	13240.0	9854.6	10291.0	12919.1	14170.6	13034.6	10198.0	9950.9	13496.7
50°	17264.0	17196.6	15803.9	11600.3	12649.6	16795.5	19028.9	17135.6	12280.5	11699.7	16676.8
52.5°	20408.7	20479.3	19394.7	13506.4	15155.7	21108.3	24217.7	21833.5	14542.8	13923.5	20678.3
55°	23370.6	23774.9	23489.3	15736.6	17604.1	25870.3	29916.8	26987.0	17344.2	16834.0	25164.4
57.5°	25687.4	26826.6	28829.0	18977.6	20482.5	31441.0	36280.1	32573.8	20614.1	21560.7	31270.9
60°	25815.8	27324.0	31973.7	25758.0	24185.6	36219.1	42633.7	38032.1	25754.8	29586.3	36055.4
62.5°	23880.8	25498.1	29926.4	28838.6	28219.3	40284.8	45894.0	42011.2	30812.1	34287.3	34637.1
65°	21666.6	23300.0	27641.7	25344.1	27750.8	40111.5	45066.1	42104.3	31270.9	31091.2	32098.8
67.5°	18319.7	19786.2	23717.1	22433.6	25578.3	38176.5	41241.1	39450.5	28809.7	29079.3	29528.5
70°	13371.6	14783.5	18432.0	18496.2	22337.3	34688.4	35436.1	35189.0	26531.4	26817.0	25533.4
72.5°	9658.9	10849.4	13997.3	15168.6	17832.0	29088.9	28572.2	29525.3	22764.1	23884.0	20508.2
75°	6944.1	7836.2	10268.6	13195.1	14135.3	21602.5	20453.7	22866.8	18265.2	20566.0	15418.9
77.5°	2817.4	3131.9	4040.0	8888.7	9289.8	14533.2	12521.2	16609.4	13021.8	13512.8	7473.6
80°	115.5	128.4	166.9	4588.8	6369.7	8176.3	6700.2	8879.1	8599.9	5442.3	1764.9
82.5°	12.8	12.8	28.9	1322.1	2788.6	4511.7	3157.6	5115.0	4354.5	2307.2	802.2
85°	3.2	3.2	6.4	150.8	654.6	722.0	426.8	1569.2	2024.8	943.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	28.9	32.1	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°	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0
2.5°	1453.6	1437.6	1418.3	1399.1	1389.5	1363.8	1354.2	1347.7	1341.3	1344.5	1344.5
5°	1405.5	1370.2	1328.5	1286.8	1264.3	1238.6	1225.8	1219.4	1222.6	1235.4	1235.4
7.5°	1399.1	1331.7	1241.9	1187.3	1161.6	1142.4	1129.5	1123.1	1126.3	1142.4	1148.8
10°	1505.0	1386.3	1225.8	1132.7	1103.9	1084.6	1071.8	1062.2	1055.7	1068.6	1071.8
12.5°	1732.8	1569.2	1302.8	1126.3	1075.0	1049.3	1039.7	1020.4	1010.8	1017.2	1020.4
15°	2204.5	1922.1	1456.9	1152.0	1049.3	1020.4	1004.4	988.3	972.3	969.1	972.3
17.5°	2820.6	2416.3	1691.1	1213.0	1030.1	994.8	972.3	949.8	927.4	924.2	921.0
20°	3584.4	3022.8	2018.4	1309.2	1014.0	972.3	940.2	908.1	879.2	869.6	869.6
22.5°	4280.7	3754.4	2438.8	1428.0	991.6	940.2	901.7	863.2	831.1	815.1	811.9
25°	5131.1	4531.0	2942.6	1566.0	959.5	898.5	856.8	818.3	786.2	766.9	760.5
27.5°	5987.8	5349.3	3513.8	1745.7	921.0	856.8	818.3	783.0	747.7	725.2	718.8
30°	6819.0	6231.7	4155.6	1970.3	892.1	815.1	783.0	747.7	715.6	680.3	670.7
32.5°	7711.0	7133.4	4874.4	2220.6	869.6	786.2	750.9	718.8	677.1	645.0	628.9
35°	8571.0	8064.0	5667.0	2464.5	847.2	760.5	722.0	689.9	645.0	609.7	587.2
37.5°	9437.4	9010.7	6494.9	2612.1	815.1	725.2	689.9	664.2	612.9	571.2	545.5
40°	10355.2	9989.4	7390.1	2551.1	786.2	686.7	667.5	638.6	580.8	532.7	500.6
42.5°	11362.8	10923.2	8301.5	2316.8	760.5	654.6	635.4	606.5	551.9	494.2	452.5
45°	12630.3	11946.8	9049.2	1963.9	773.4	622.5	584.0	577.6	526.3	452.5	401.1
47.5°	14809.2	13519.2	9630.0	1736.0	860.0	587.2	542.3	558.4	503.8	410.7	353.0
50°	18143.2	16124.8	10172.3	1720.0	991.6	571.2	503.8	545.5	481.3	369.0	311.3
52.5°	21320.1	18772.2	10518.8	1861.2	1107.1	612.9	465.3	529.5	465.3	340.1	282.4
55°	24358.9	20299.6	9899.5	1963.9	1216.2	738.1	436.4	503.8	446.0	324.1	272.8
57.5°	27635.2	20979.9	7794.5	2172.4	1293.2	843.9	442.8	465.3	420.4	314.5	269.5
60°	28614.0	20110.3	4704.3	2445.2	1251.5	876.0	491.0	414.0	385.1	295.2	259.9
62.5°	27092.9	18047.0	2775.7	2227.0	1216.2	827.9	561.6	381.9	349.8	269.5	240.7
65°	24817.8	15245.6	1809.8	1880.4	1290.0	738.1	596.9	365.8	317.7	243.9	211.8
67.5°	22218.6	12280.5	1267.5	1110.3	1190.5	664.2	503.8	362.6	285.6	205.4	173.3
70°	18714.4	9196.8	892.1	734.8	991.6	590.4	391.5	353.0	250.3	166.9	134.8
72.5°	14459.4	5756.8	664.2	474.9	706.0	481.3	311.3	298.4	202.2	138.0	102.7
75°	10663.2	3282.7	468.5	343.4	465.3	365.8	231.0	211.8	173.3	131.6	93.1
77.5°	5567.5	1643.0	292.0	263.1	266.3	227.8	166.9	154.0	160.4	131.6	86.6
80°	1068.6	327.3	176.5	192.5	144.4	144.4	121.9	128.4	141.2	105.9	73.8
82.5°	446.0	70.6	96.3	109.1	89.8	99.5	99.5	102.7	99.5	77.0	54.6
85°	0.0	0.0	41.7	44.9	61.0	61.0	51.3	51.3	51.3	44.9	32.1
87.5°	0.0	0.0	0.0	0.0	3.2	9.6	19.3	22.5	25.7	19.3	12.8
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°	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0
2.5°	1341.3	1334.9	1344.5	1351.0	1357.4	1357.4	1351.0	1344.5	1334.9	1344.5	1334.9
5°	1238.6	1248.3	1264.3	1270.7	1277.2	1264.3	1257.9	1238.6	1222.6	1225.8	1219.4
7.5°	1158.4	1168.0	1187.3	1200.1	1200.1	1193.7	1174.5	1155.2	1129.5	1129.5	1126.3
10°	1084.6	1097.5	1119.9	1136.0	1142.4	1136.0	1116.7	1091.0	1068.6	1068.6	1058.9
12.5°	1023.6	1039.7	1065.4	1087.8	1094.2	1087.8	1068.6	1042.9	1017.2	1017.2	1010.8
15°	972.3	991.6	1020.4	1046.1	1055.7	1046.1	1023.6	991.6	965.9	969.1	959.5
17.5°	924.2	940.2	978.7	1007.6	1017.2	1007.6	978.7	937.0	911.3	917.8	911.3
20°	869.6	888.9	927.4	959.5	969.1	959.5	927.4	882.5	856.8	856.8	860.0
22.5°	811.9	831.1	869.6	892.1	904.9	895.3	863.2	821.5	795.8	795.8	799.0
25°	760.5	770.1	799.0	821.5	824.7	815.1	789.4	757.3	738.1	747.7	750.9
27.5°	712.4	712.4	725.2	738.1	734.8	725.2	715.6	689.9	686.7	696.3	706.0
30°	661.0	645.0	638.6	628.9	625.7	622.5	632.2	632.2	638.6	651.4	661.0
32.5°	616.1	584.0	555.1	526.3	510.2	523.1	548.7	571.2	593.7	612.9	622.5
35°	564.8	513.4	465.3	426.8	401.1	420.4	462.1	503.8	542.3	568.0	584.0
37.5°	513.4	439.6	381.9	333.7	314.5	330.5	375.4	433.2	491.0	523.1	545.5
40°	458.9	365.8	298.4	259.9	240.7	256.7	301.6	359.4	436.4	478.1	507.0
42.5°	404.3	301.6	240.7	202.2	192.5	202.2	237.5	295.2	378.7	430.0	468.5
45°	349.8	250.3	192.5	163.7	154.0	163.7	192.5	240.7	324.1	381.9	426.8
47.5°	301.6	211.8	160.4	134.8	128.4	138.0	160.4	202.2	272.8	330.5	381.9
50°	263.1	186.1	138.0	115.5	109.1	118.7	138.0	170.1	231.0	282.4	336.9
52.5°	237.5	173.3	121.9	99.5	96.3	102.7	118.7	144.4	195.7	240.7	292.0
55°	231.0	173.3	112.3	89.8	86.6	93.1	105.9	125.1	170.1	208.6	253.5
57.5°	237.5	186.1	105.9	77.0	73.8	80.2	93.1	109.1	147.6	179.7	221.4
60°	237.5	189.3	93.1	61.0	57.8	64.2	77.0	96.3	131.6	157.2	192.5
62.5°	215.0	173.3	77.0	48.1	41.7	48.1	64.2	80.2	115.5	141.2	170.1
65°	186.1	147.6	64.2	35.3	28.9	35.3	51.3	67.4	99.5	121.9	154.0
67.5°	150.8	112.3	48.1	25.7	19.3	25.7	38.5	54.6	83.4	105.9	138.0
70°	112.3	80.2	38.5	22.5	19.3	22.5	35.3	51.3	73.8	96.3	128.4
72.5°	83.4	54.6	32.1	22.5	16.0	22.5	32.1	48.1	70.6	93.1	121.9
75°	70.6	44.9	28.9	19.3	16.0	19.3	28.9	44.9	64.2	86.6	115.5
77.5°	67.4	41.7	25.7	16.0	12.8	16.0	25.7	38.5	57.8	80.2	112.3
80°	57.8	35.3	22.5	12.8	9.6	12.8	22.5	32.1	44.9	61.0	86.6
82.5°	44.9	28.9	16.0	6.4	3.2	6.4	16.0	19.3	28.9	35.3	51.3
85°	28.9	16.0	6.4	0.0	0.0	0.0	6.4	12.8	12.8	16.0	25.7
87.5°	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	9.6
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-SA6E-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0	1444.0
2.5°	1354.2	1357.4	1363.8	1373.4	1395.9	1415.1	1434.4	1460.1	1472.9	1472.9
5°	1225.8	1229.0	1232.2	1245.1	1277.2	1302.8	1344.5	1395.9	1421.6	1428.0
7.5°	1126.3	1132.7	1139.2	1148.8	1180.9	1216.2	1270.7	1367.0	1415.1	1424.8
10°	1068.6	1078.2	1091.0	1110.3	1139.2	1177.7	1270.7	1444.0	1524.2	1540.3
12.5°	1023.6	1039.7	1052.5	1075.0	1110.3	1171.3	1357.4	1662.2	1803.4	1841.9
15°	978.7	998.0	1017.2	1039.7	1078.2	1193.7	1524.2	2053.7	2288.0	2316.8
17.5°	933.8	956.3	981.9	1007.6	1055.7	1248.3	1787.4	2596.0	2923.3	2987.5
20°	882.5	911.3	946.6	978.7	1033.3	1334.9	2153.2	3241.0	3651.8	3789.7
22.5°	827.9	863.2	904.9	946.6	1007.6	1440.8	2596.0	3934.1	4508.5	4598.4
25°	783.0	818.3	856.8	898.5	965.9	1569.2	3131.9	4794.1	5317.2	5403.8
27.5°	741.3	776.6	811.9	850.4	924.2	1736.0	3776.9	5708.7	6254.2	6344.0
30°	696.3	738.1	773.4	811.9	885.7	1941.4	4521.4	6722.7	7239.3	7322.8
32.5°	657.8	699.5	734.8	773.4	856.8	2166.0	5304.3	7621.2	8041.6	8041.6
35°	625.7	670.7	696.3	747.7	834.3	2310.4	6045.6	8478.0	8795.7	8782.8
37.5°	590.4	645.0	664.2	699.5	805.4	2326.5	6741.9	9382.9	9617.1	9533.7
40°	555.1	612.9	641.8	661.0	773.4	2194.9	7505.7	10214.0	10413.0	10303.8
42.5°	523.1	568.0	609.7	632.2	754.1	1963.9	8118.6	11102.9	11340.3	11244.1
45°	491.0	529.5	555.1	596.9	766.9	1803.4	8644.8	12139.4	12556.5	12485.9
47.5°	458.9	491.0	507.0	571.2	853.6	1729.6	8965.7	13743.8	14530.0	14472.2
50°	423.6	462.1	462.1	564.8	981.9	1755.3	9244.9	16067.1	17283.3	17264.0
52.5°	388.3	430.0	423.6	612.9	1081.4	1874.0	9562.6	18117.6	20232.3	20408.7
55°	353.0	391.5	397.9	709.2	1139.2	1976.7	8333.6	18980.8	22751.3	23370.6
57.5°	314.5	336.9	414.0	783.0	1119.9	2275.1	5708.7	19138.0	24358.9	25687.4
60°	272.8	292.0	468.5	766.9	1058.9	2101.8	3594.0	17726.1	24131.1	25815.8
62.5°	237.5	269.5	494.2	677.1	1078.2	1822.7	2291.2	15107.6	21958.7	23880.8
65°	208.6	259.9	449.2	612.9	1091.0	1235.4	1546.7	12290.2	19837.6	21666.6
67.5°	186.1	288.8	369.0	545.5	937.0	869.6	1062.2	9549.8	16680.0	18319.7
70°	170.1	295.2	301.6	468.5	725.2	558.4	699.5	6427.5	11497.6	13371.6
72.5°	154.0	218.2	227.8	375.4	468.5	340.1	452.5	3677.4	8381.7	9658.9
75°	147.6	147.6	157.2	243.9	259.9	247.1	292.0	2194.9	6010.3	6944.1
77.5°	138.0	112.3	99.5	157.2	141.2	176.5	173.3	975.5	2605.6	2817.4
80°	109.1	80.2	67.4	99.5	96.3	118.7	102.7	80.2	118.7	115.5
82.5°	67.4	51.3	48.1	61.0	54.6	61.0	48.1	12.8	12.8	12.8
85°	32.1	28.9	25.7	25.7	28.9	25.7	19.3	6.4	3.2	3.2
87.5°	16.0	16.0	12.8	9.6	12.8	12.8	9.6	3.2	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

(END OF REPORT)