

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: P643706

Luminaire Tested: GWS-SA6F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30134.3 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

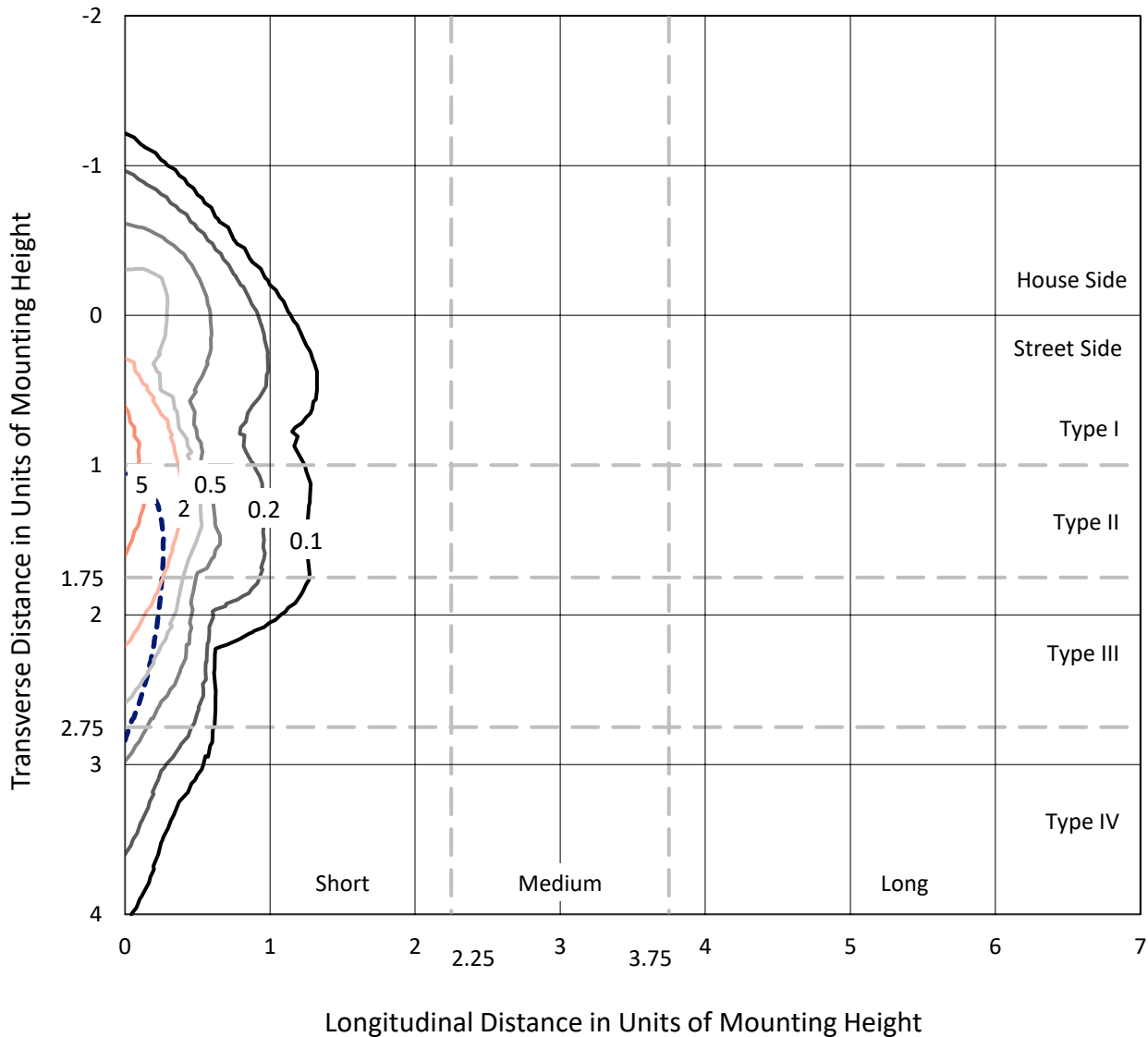
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

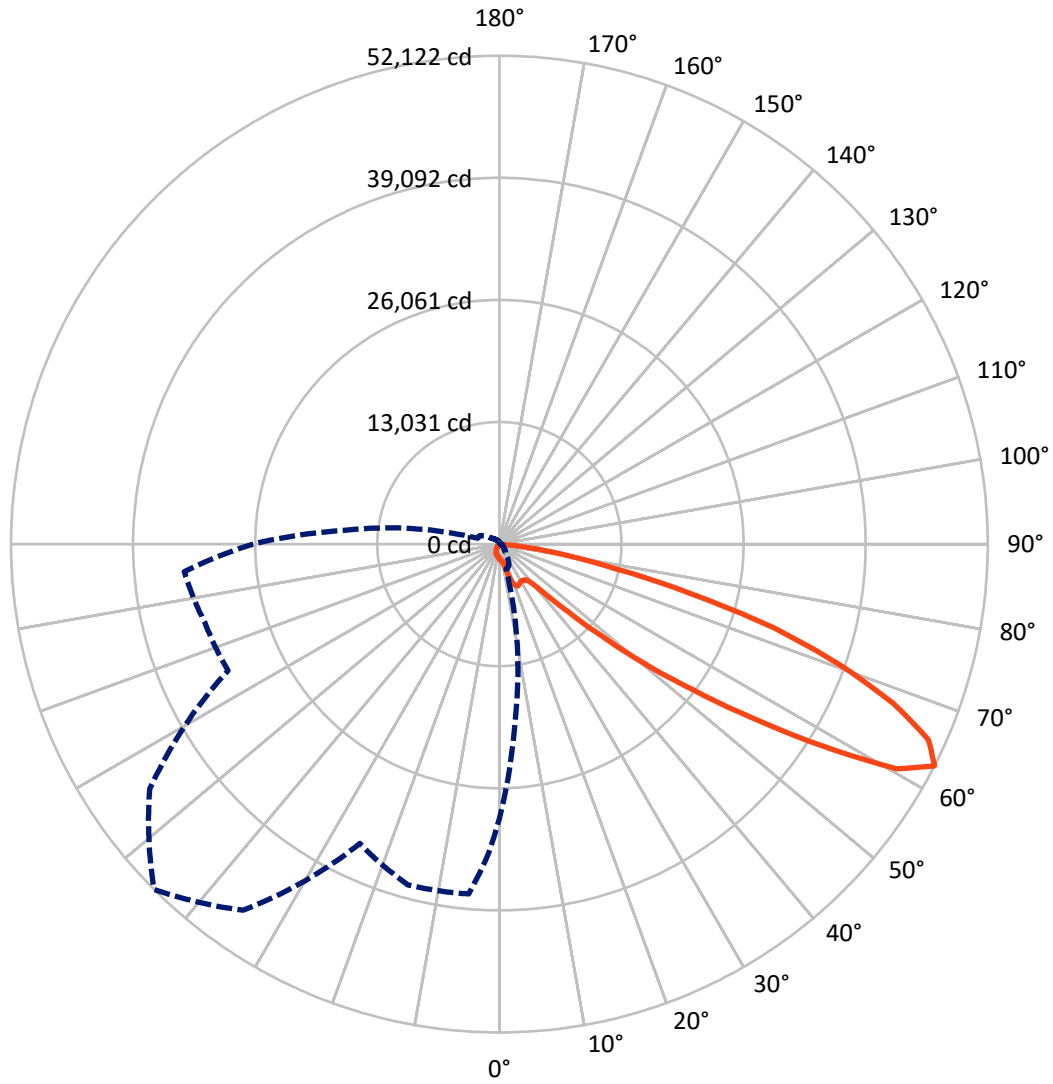
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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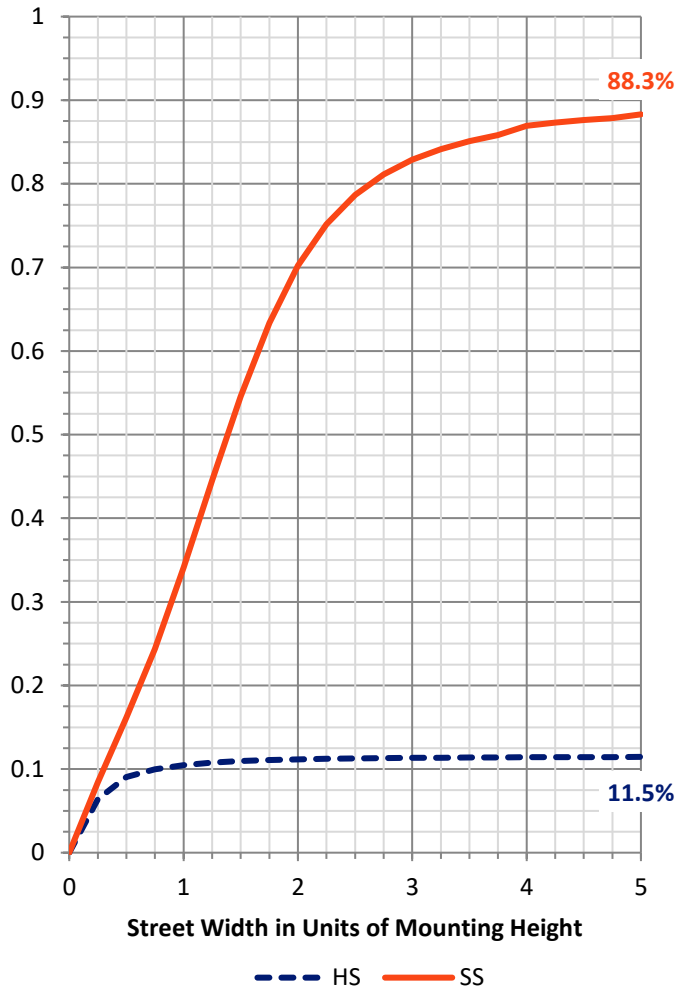
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.2	0.0	3501.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	26633.1	0.0	26633.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	30134.3	0.0	30134.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	0.4
10°-20°	462.6	1.5
20°-30°	1045.0	3.5
30°-40°	1800.2	6.0
40°-50°	3395.9	11.3
50°-60°	7582.1	25.2
60°-70°	10140.9	33.7
70°-80°	5085.4	16.9
80°-90°	487.4	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°	30134.3	100.0
0°-180°	30134.3	100.0

Coefficient of Utilization

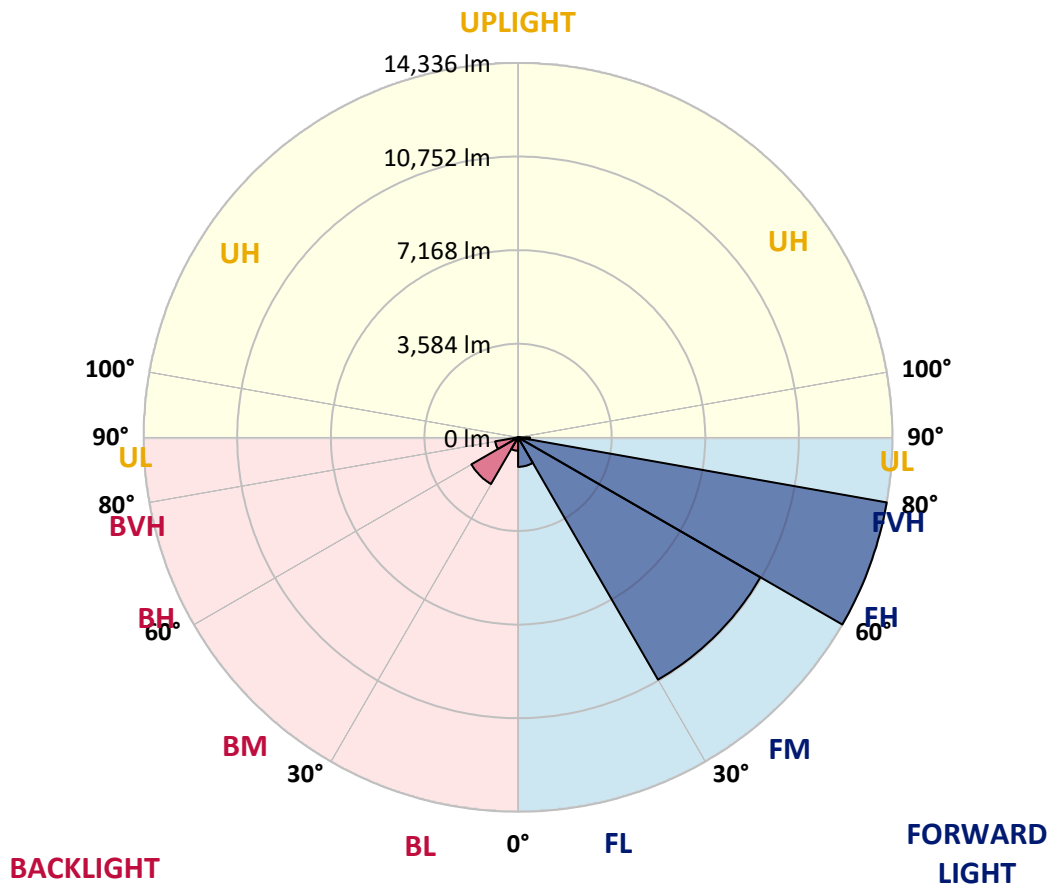


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.6	3.7			
FM (30°-60°)	10713.6	35.6			
FH (60°-80°)	14335.9	47.6			G5
FVH (80°-90°)	455.0	1.5			G3/500
BL (0°-30°)	513.9	1.7	B2/1000		
BM (30°-60°)	2064.5	6.9	B2/2500		
BH (60°-80°)	890.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	32.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1545.0	1541.4	1534.3	1512.9	1495.0	1484.3	1462.9	1462.9	1459.3	1452.2	1437.9
5°	1495.0	1480.7	1466.5	1427.2	1384.4	1359.4	1330.9	1327.3	1327.3	1320.2	1316.6
7.5°	1416.5	1402.2	1384.4	1320.2	1280.9	1256.0	1231.0	1227.4	1216.7	1216.7	1216.7
10°	1373.7	1352.3	1323.7	1252.4	1213.1	1191.7	1173.9	1163.2	1156.0	1145.3	1141.8
12.5°	1466.5	1427.2	1366.6	1238.1	1184.6	1156.0	1134.6	1127.5	1106.1	1091.8	1081.1
15°	1755.5	1659.1	1537.8	1270.2	1173.9	1131.1	1102.5	1088.3	1070.4	1045.4	1027.6
17.5°	2230.0	2090.9	1887.5	1373.7	1163.2	1109.7	1074.0	1049.0	1024.0	995.5	974.1
20°	2886.6	2679.6	2437.0	1562.8	1163.2	1084.7	1041.9	1009.8	974.1	942.0	917.0
22.5°	3721.5	3514.5	3100.6	1883.9	1177.5	1052.6	1002.6	959.8	917.0	888.4	859.9
25°	4656.3	4363.7	3978.4	2272.9	1216.7	1009.8	956.2	913.4	874.2	838.5	806.4
27.5°	5698.2	5380.6	4866.8	2825.9	1302.3	966.9	906.3	867.0	831.4	795.7	752.9
30°	6658.0	6468.9	5944.4	3489.6	1441.5	938.4	867.0	831.4	795.7	749.3	710.0
32.5°	7810.5	7475.1	7043.3	4246.0	1627.0	909.9	834.9	785.0	756.4	713.6	670.8
35°	8970.1	8684.6	8117.3	5177.2	1834.0	881.3	795.7	749.3	724.3	674.4	628.0
37.5°	10165.4	10101.2	9541.0	6208.4	2037.4	849.2	749.3	720.7	695.8	638.7	585.2
40°	11342.8	11225.1	10707.7	7385.9	2162.2	813.5	710.0	692.2	663.7	599.4	538.8
42.5°	12470.4	12381.2	11878.1	8513.4	2144.4	781.4	670.8	649.4	628.0	563.8	488.8
45°	13854.8	13708.5	13073.4	9348.3	1962.4	817.1	631.5	595.9	592.3	531.6	438.9
47.5°	16445.2	15963.5	14885.9	9990.6	1780.5	909.9	588.7	545.9	570.9	499.5	388.9
50°	20073.9	19506.6	17947.3	10490.1	1776.9	1031.2	581.6	499.5	553.0	474.6	346.1
52.5°	23720.4	22721.4	20826.7	10757.7	1908.9	1120.4	645.8	453.1	531.6	449.6	314.0
55°	27213.6	25140.5	22032.7	9872.8	2012.4	1216.7	763.6	428.2	492.4	421.0	296.1
57.5°	30542.6	27085.1	22557.2	7810.5	2358.5	1256.0	834.9	438.9	435.3	385.3	281.9
60°	30999.3	26992.3	21497.5	4542.1	2601.1	1188.2	806.4	488.8	381.8	342.5	256.9
62.5°	29272.3	25197.6	19082.0	2833.0	2415.6	1163.2	717.2	556.6	346.1	303.3	224.8
65°	26649.8	22382.4	15910.0	1826.8	1830.4	1291.6	628.0	545.9	324.7	267.6	192.7
67.5°	22550.1	18732.3	12534.6	1223.8	1034.7	1102.5	549.5	374.6	317.6	228.4	149.9
70°	16459.4	13333.8	8160.1	817.1	617.3	881.3	460.3	267.6	299.7	189.1	107.0
72.5°	12031.5	8959.4	4556.4	535.2	349.7	513.8	339.0	192.7	231.9	139.2	74.9
75°	8659.7	6165.6	2601.1	342.5	231.9	281.9	221.2	132.0	149.9	110.6	67.8
77.5°	4167.5	3004.3	1181.0	189.1	157.0	142.7	117.7	82.1	92.8	99.9	60.7
80°	157.0	117.7	89.2	92.8	99.9	64.2	53.5	42.8	53.5	67.8	32.1
82.5°	0.0	0.0	0.0	10.7	14.3	17.8	21.4	17.8	21.4	25.0	3.6
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°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1448.6	1441.5	1448.6	1455.8	1462.9	1470.0	1459.3	1466.5	1473.6	1455.8	1462.9
5°	1334.5	1330.9	1352.3	1363.0	1377.3	1384.4	1377.3	1377.3	1373.7	1352.3	1352.3
7.5°	1234.5	1238.1	1256.0	1280.9	1298.8	1309.5	1302.3	1298.8	1288.1	1256.0	1256.0
10°	1159.6	1159.6	1188.2	1209.6	1234.5	1245.3	1238.1	1227.4	1216.7	1184.6	1181.0
12.5°	1099.0	1099.0	1120.4	1156.0	1184.6	1198.9	1195.3	1181.0	1163.2	1131.1	1127.5
15°	1041.9	1038.3	1070.4	1102.5	1141.8	1159.6	1152.5	1141.8	1109.7	1081.1	1074.0
17.5°	984.8	981.2	1009.8	1052.6	1095.4	1120.4	1116.8	1091.8	1063.3	1027.6	1020.5
20°	927.7	920.6	956.2	999.1	1041.9	1066.8	1059.7	1038.3	1002.6	966.9	959.8
22.5°	870.6	867.0	892.0	927.7	966.9	988.4	984.8	966.9	931.3	899.1	899.1
25°	806.4	806.4	824.2	849.2	877.7	888.4	892.0	884.9	863.5	845.6	845.6
27.5°	752.9	742.2	749.3	756.4	770.7	788.5	788.5	795.7	799.2	792.1	795.7
30°	710.0	692.2	681.5	667.2	660.1	667.2	674.4	699.3	724.3	738.6	745.7
32.5°	660.1	638.7	610.1	570.9	545.9	538.8	560.2	606.6	653.0	685.1	702.9
35°	610.1	581.6	528.1	471.0	438.9	428.2	453.1	506.7	574.5	631.5	656.5
37.5°	560.2	520.9	446.0	378.2	342.5	335.4	360.4	417.5	496.0	574.5	606.6
40°	503.1	456.7	367.5	296.1	267.6	260.5	281.9	339.0	421.0	510.2	560.2
42.5°	446.0	388.9	296.1	235.5	206.9	206.9	235.5	278.3	353.2	449.6	510.2
45°	388.9	328.3	242.6	189.1	171.3	174.8	192.7	235.5	296.1	396.1	453.1
47.5°	335.4	281.9	199.8	157.0	142.7	146.3	167.7	203.4	253.3	342.5	403.2
50°	289.0	239.1	174.8	132.0	121.3	128.4	149.9	182.0	224.8	303.3	353.2
52.5°	260.5	214.1	160.6	114.2	107.0	114.2	135.6	164.1	203.4	267.6	317.6
55°	246.2	210.5	160.6	103.5	92.8	99.9	121.3	149.9	182.0	242.6	285.4
57.5°	242.6	217.7	171.3	92.8	78.5	85.6	107.0	135.6	167.7	221.2	256.9
60°	228.4	206.9	167.7	74.9	60.7	71.4	89.2	117.7	153.4	206.9	239.1
62.5°	199.8	182.0	146.3	60.7	46.4	53.5	74.9	103.5	139.2	189.1	224.8
65°	164.1	146.3	114.2	39.2	28.5	35.7	57.1	89.2	121.3	171.3	203.4
67.5°	121.3	103.5	78.5	25.0	14.3	25.0	46.4	74.9	110.6	153.4	185.5
70°	74.9	60.7	42.8	14.3	10.7	21.4	42.8	71.4	99.9	142.7	174.8
72.5°	42.8	28.5	17.8	7.1	10.7	21.4	42.8	71.4	96.3	135.6	164.1
75°	32.1	17.8	7.1	3.6	7.1	17.8	39.2	64.2	92.8	128.4	157.0
77.5°	21.4	10.7	3.6	0.0	3.6	14.3	35.7	60.7	85.6	121.3	149.9
80°	3.6	0.0	0.0	0.0	0.0	10.7	32.1	53.5	78.5	107.0	132.0
82.5°	0.0	0.0	0.0	0.0	0.0	3.6	25.0	46.4	67.8	89.2	107.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.3	35.7	53.5	67.8	74.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	35.7	42.8	50.0
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°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1459.3	1480.7	1480.7	1495.0	1512.9	1545.0	1562.8	1587.8	1605.6	1623.5	1630.6
5°	1348.7	1352.3	1355.9	1363.0	1384.4	1420.1	1452.2	1491.4	1537.8	1573.5	1594.9
7.5°	1256.0	1256.0	1256.0	1266.7	1288.1	1313.0	1345.2	1398.7	1452.2	1495.0	1530.7
10°	1177.5	1188.2	1191.7	1209.6	1234.5	1266.7	1302.3	1348.7	1409.4	1466.5	1530.7
12.5°	1127.5	1138.2	1156.0	1173.9	1198.9	1234.5	1273.8	1334.5	1459.3	1577.1	1712.7
15°	1081.1	1095.4	1116.8	1141.8	1170.3	1209.6	1252.4	1377.3	1669.8	1891.1	2105.2
17.5°	1031.2	1052.6	1081.1	1106.1	1141.8	1184.6	1238.1	1480.7	2055.2	2422.7	2786.7
20°	966.9	995.5	1027.6	1066.8	1109.7	1159.6	1238.1	1694.8	2611.8	3139.9	3621.6
22.5°	906.3	934.8	974.1	1024.0	1074.0	1123.9	1256.0	2019.5	3329.0	3996.2	4606.4
25°	856.3	892.0	931.3	974.1	1031.2	1088.3	1298.8	2476.2	4192.5	5052.4	5484.1
27.5°	809.9	852.8	892.0	927.7	977.6	1041.9	1395.1	3086.4	5212.9	6087.1	6426.1
30°	763.6	813.5	852.8	888.4	938.4	1006.2	1541.4	3864.2	6347.6	7196.8	7232.4
32.5°	724.3	770.7	817.1	852.8	899.1	977.6	1744.8	4774.1	7510.8	8331.4	7996.0
35°	681.5	735.0	777.8	817.1	867.0	952.7	1980.3	5755.3	8684.6	9373.3	8756.0
37.5°	638.7	699.3	752.9	781.4	831.4	927.7	2151.5	6779.3	9883.5	10390.2	9423.2
40°	599.4	667.2	727.9	756.4	781.4	895.6	2176.5	7828.3	11100.2	11392.8	10051.2
42.5°	556.6	631.5	685.1	724.3	745.7	874.2	2026.7	8713.2	12120.7	12391.9	10871.9
45°	510.2	599.4	642.2	670.8	713.6	888.4	1834.0	9398.3	13287.4	13754.9	12224.2
47.5°	463.8	563.8	599.4	620.8	677.9	974.1	1762.6	9855.0	15210.6	16181.1	14504.1
50°	421.0	531.6	570.9	567.3	670.8	1084.7	1841.1	10201.1	18100.7	19242.5	17629.8
52.5°	374.6	496.0	542.3	528.1	724.3	1170.3	1998.1	10475.8	20323.6	22832.0	21829.4
55°	335.4	456.7	499.5	496.0	824.2	1234.5	2119.4	9027.2	21244.2	26168.1	26560.6
57.5°	306.9	413.9	449.6	510.2	888.4	1234.5	2451.3	6408.2	21262.0	28622.9	32840.4
60°	281.9	374.6	399.6	560.2	863.5	1170.3	2426.3	3924.9	19595.8	28455.2	36180.1
62.5°	260.5	339.0	371.1	574.5	763.6	1159.6	2190.8	2433.4	16712.8	26289.4	33757.4
65°	242.6	310.4	356.8	528.1	692.2	1241.7	1477.2	1748.3	13555.0	23820.3	30977.9
67.5°	224.8	285.4	378.2	431.7	628.0	1109.7	1066.8	1241.7	10639.9	21112.2	28426.7
70°	210.5	271.2	399.6	353.2	549.5	867.0	756.4	942.0	8145.9	17615.5	24833.7
72.5°	199.8	253.3	335.4	278.3	446.0	670.8	528.1	685.1	5323.5	13751.3	20245.1
75°	189.1	231.9	246.2	224.8	331.8	438.9	399.6	460.3	3172.0	10051.2	15360.5
77.5°	185.5	217.7	199.8	182.0	224.8	260.5	303.3	310.4	1548.5	5027.4	8049.5
80°	164.1	196.2	171.3	149.9	153.4	171.3	224.8	206.9	353.2	1277.4	2148.0
82.5°	128.4	153.4	142.7	124.9	124.9	124.9	149.9	139.2	114.2	574.5	970.5
85°	89.2	107.0	107.0	99.9	96.3	96.3	92.8	89.2	32.1	35.7	53.5
87.5°	60.7	74.9	78.5	74.9	64.2	57.1	50.0	42.8	14.3	0.0	7.1
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-SA6F-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1655.6	1666.3	1666.3	1652.0	1641.3	1612.8	1584.2	1555.7	1548.5	1545.0
5°	1655.6	1698.4	1719.8	1716.2	1691.3	1644.9	1584.2	1520.0	1502.2	1495.0
7.5°	1630.6	1712.7	1776.9	1787.6	1741.2	1659.1	1548.5	1452.2	1427.2	1416.5
10°	1687.7	1848.3	1976.7	1994.5	1941.0	1780.5	1602.1	1437.9	1398.7	1373.7
12.5°	1994.5	2258.6	2415.6	2490.5	2387.0	2183.6	1887.5	1594.9	1505.7	1466.5
15°	2615.4	2990.0	3289.7	3289.7	3193.4	2833.0	2458.4	1983.8	1862.5	1755.5
17.5°	3411.1	3882.0	4146.1	4117.5	3971.2	3717.9	3268.3	2586.8	2340.6	2230.0
20°	4317.3	4599.2	4659.9	4642.0	4577.8	4431.5	4121.1	3389.7	3057.8	2886.6
22.5°	5102.3	5027.4	4938.2	4866.8	4849.0	4891.8	4849.0	4285.2	4024.8	3721.5
25°	5634.0	5209.4	4941.8	4813.3	4874.0	5120.2	5387.8	5177.2	4970.3	4656.3
27.5°	5923.0	5188.0	4802.6	4670.6	4774.1	5123.7	5705.3	6062.1	5848.0	5698.2
30°	6080.0	5170.1	4713.4	4585.0	4741.9	5180.8	5926.5	6889.9	6897.1	6658.0
32.5°	6304.8	5284.3	4731.2	4613.5	4824.0	5352.1	6204.8	7732.0	7938.9	7810.5
35°	6558.1	5459.1	4813.3	4706.3	4966.7	5580.4	6515.3	8581.2	9012.9	8970.1
37.5°	6797.1	5655.4	5006.0	4902.5	5184.4	5776.7	6815.0	9416.1	10015.5	10165.4
40°	7046.9	5930.1	5598.3	5698.2	5855.2	6087.1	7082.6	10140.4	11118.1	11342.8
42.5°	7635.6	6882.8	7389.4	7578.5	7600.0	7121.8	7667.8	11068.1	12202.7	12470.4
45°	8948.7	8577.6	10029.8	10297.4	10158.3	8709.6	9077.1	12406.1	13719.2	13854.8
47.5°	10607.8	10779.1	13644.2	14568.4	13733.4	10582.9	10786.2	15221.3	16495.1	16445.2
50°	12541.7	13351.7	17747.5	19927.6	17929.5	13016.3	12755.8	18682.3	20227.3	20073.9
52.5°	14828.8	16341.7	22678.6	25775.6	23884.6	15753.0	15645.9	23267.3	24209.3	23720.4
55°	17708.3	19228.2	28351.8	32679.8	29989.5	19092.7	19460.2	28583.7	28765.7	27213.6
57.5°	22004.2	22992.5	35038.3	40597.3	36362.0	23631.2	26296.6	35659.1	33482.6	30542.6
60°	29804.0	27834.4	41500.0	48696.8	43141.4	30014.5	35313.0	39851.6	35052.6	30999.3
62.5°	32519.3	31944.8	45546.2	52122.1	47701.3	35256.0	37657.3	37475.3	33018.8	29272.3
65°	28405.3	30920.8	44821.9	50313.1	47116.2	34392.5	33793.0	34852.8	30728.1	26649.8
67.5°	26239.5	28515.9	42078.1	45321.4	43872.8	31463.1	30121.5	29832.5	25797.0	22550.1
70°	24055.8	26310.8	38099.7	38502.9	37828.5	26689.1	24926.4	22989.0	19281.8	16459.4
72.5°	21429.7	22671.4	32579.9	30667.4	29903.9	20962.3	20591.2	17312.2	14454.2	12031.5
75°	18689.5	18329.1	25401.0	21048.0	21618.8	16309.6	17390.7	12713.0	10590.0	8659.7
77.5°	13594.3	13326.7	17012.5	12784.3	14158.0	10682.8	9598.1	5073.8	4831.1	4167.5
80°	7585.7	9144.9	9187.7	7164.7	8938.0	6964.8	2401.3	167.7	107.0	157.0
82.5°	3525.2	3932.0	4981.0	3321.9	5098.8	3450.3	496.0	0.0	0.0	0.0
85°	1141.8	1669.8	1398.7	488.8	1234.5	1166.8	82.1	0.0	0.0	0.0
87.5°	67.8	139.2	35.7	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

(END OF REPORT)