

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: P637770

Luminaire Tested: GWS-SA4D-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637770
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-SA4D-740-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15197.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

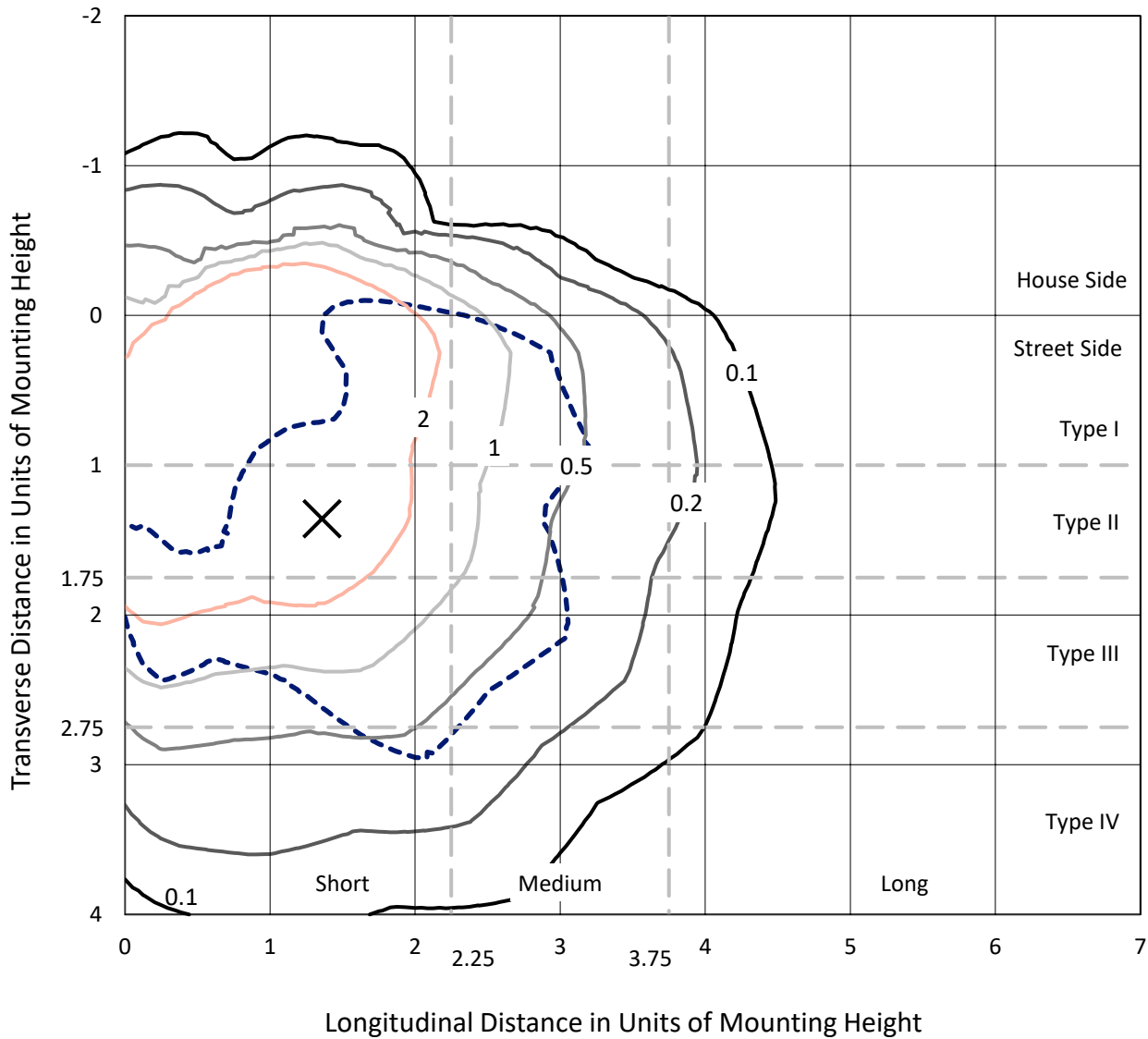
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637770
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

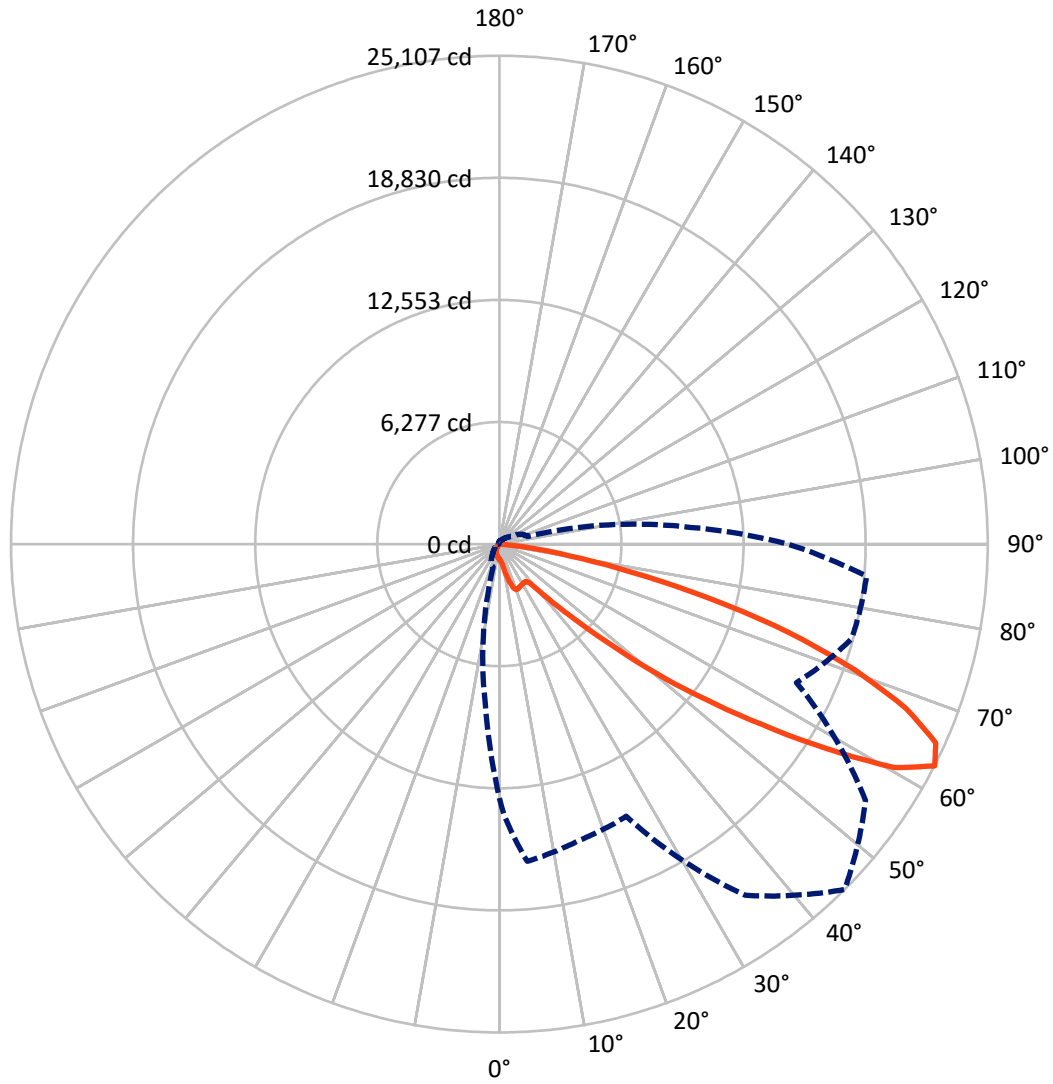
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P637770
CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637770
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.4	0.0	1875.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13322.3	0.0	13322.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	15197.7	0.0	15197.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	0.5
10°-20°	265.0	1.7
20°-30°	576.0	3.8
30°-40°	945.4	6.2
40°-50°	1738.0	11.4
50°-60°	3732.3	24.6
60°-70°	5013.1	33.0
70°-80°	2610.4	17.2
80°-90°	247.5	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°	15197.7	100.0
0°-180°	15197.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637770

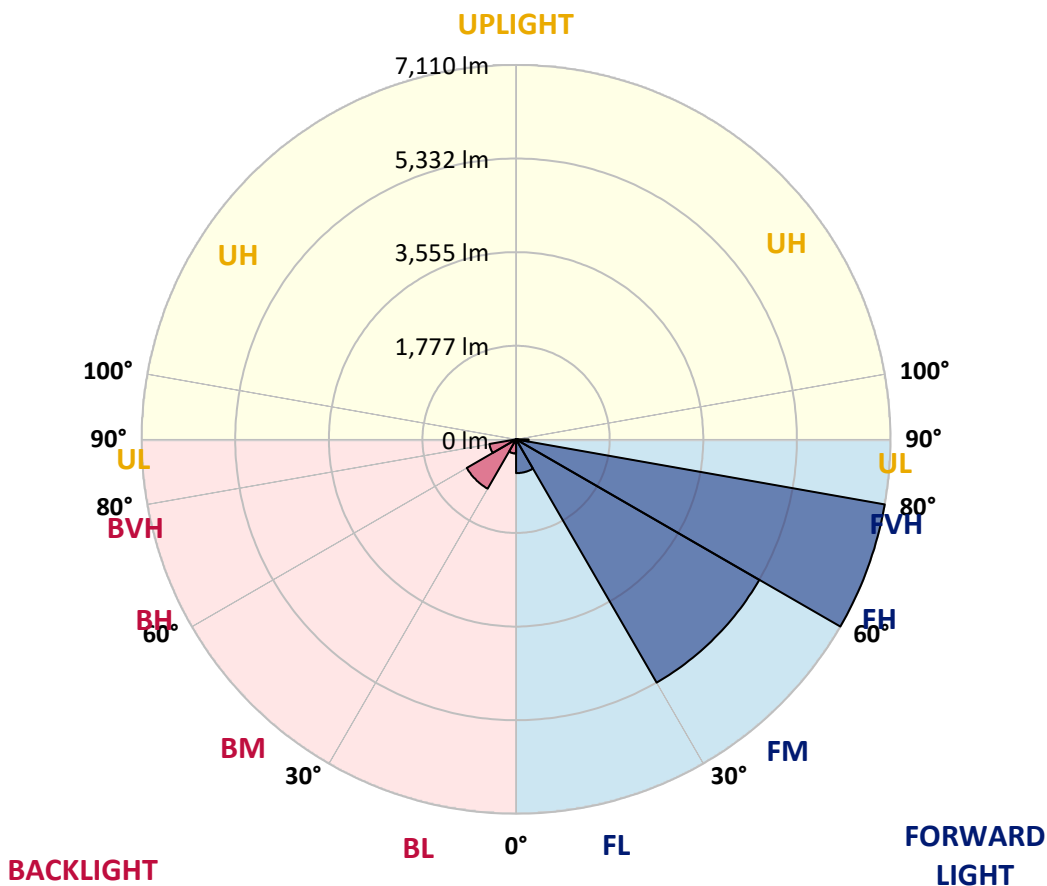
CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.0	4.2			
FM (30°-60°)	5334.2	35.1			
FH (60°-80°)	7109.6	46.8			G3/7500
FVH (80°-90°)	236.5	1.6			G3/500
BL (0°-30°)	269.0	1.8	B1/500		
BM (30°-60°)	1081.5	7.1	B2/2500		
BH (60°-80°)	513.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.0	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-G3

Type IV Short





REPORT NUMBER: P637770

CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	805.8	809.3	812.8	825.1	833.8	840.9	842.6	837.4	825.1	812.8	795.2
5°	781.2	784.7	797.0	830.3	863.7	890.0	898.8	893.5	863.7	825.1	784.7
7.5°	779.4	786.5	816.3	886.5	958.5	1012.9	1027.0	1014.7	958.5	881.2	798.7
10°	842.6	854.9	898.8	1025.2	1156.9	1253.4	1292.0	1239.4	1149.8	1009.4	874.2
12.5°	1007.6	1028.7	1113.0	1297.3	1500.9	1629.1	1681.7	1616.8	1476.4	1272.7	1058.5
15°	1267.5	1299.0	1425.4	1701.1	1941.6	2055.7	2073.2	2036.3	1873.1	1648.4	1360.5
17.5°	1634.3	1680.0	1876.6	2157.5	2331.3	2371.6	2366.4	2327.8	2208.4	2053.9	1781.8
20°	2073.2	2127.6	2320.7	2552.5	2570.0	2522.6	2496.3	2473.5	2433.1	2406.8	2194.3
22.5°	2515.6	2582.3	2784.2	2842.1	2684.1	2547.2	2482.2	2499.8	2559.5	2689.4	2603.4
25°	2956.2	3019.4	3209.0	3052.8	2736.8	2508.6	2426.1	2468.2	2610.4	2891.3	3001.9
27.5°	3470.6	3518.0	3630.3	3196.7	2745.6	2477.0	2396.2	2461.2	2635.0	3017.7	3439.0
30°	4006.0	4034.1	3979.7	3235.3	2715.7	2429.6	2366.4	2461.2	2677.1	3101.9	3767.2
32.5°	4399.2	4404.5	4227.2	3238.8	2699.9	2391.0	2338.3	2450.6	2717.5	3172.1	4085.0
35°	4804.7	4778.4	4464.2	3291.5	2742.0	2405.0	2359.4	2480.5	2780.7	3254.6	4364.1
37.5°	5215.5	5168.1	4729.2	3377.5	2850.9	2557.7	2529.6	2633.2	2882.5	3368.8	4671.3
40°	5636.8	5571.9	5004.8	3507.4	3093.1	3077.3	3173.9	3161.6	3161.6	3514.5	4987.3
42.5°	6151.2	6075.7	5412.1	3874.3	3658.4	4011.3	4274.6	4111.3	3809.4	3849.7	5398.1
45°	6830.5	6765.6	6117.8	4576.5	4544.9	5355.9	5710.5	5387.5	4636.2	4623.9	6084.5
47.5°	7917.2	7904.9	7243.1	5391.1	5629.8	7067.5	7752.2	7130.7	5578.9	5443.7	7383.5
50°	9444.4	9407.6	8645.7	6346.0	6920.1	9188.1	10409.9	9374.2	6718.2	6400.5	9123.2
52.5°	11164.8	11203.4	10610.1	7388.8	8291.1	11547.5	13248.5	11944.2	7955.8	7617.0	11312.3
55°	12785.1	13006.3	12850.1	8608.8	9630.5	14152.6	16366.3	14763.5	9488.3	9209.2	13766.4
57.5°	14052.6	14675.7	15771.2	10381.9	11205.2	17200.1	19847.4	17819.8	11277.2	11795.0	17107.1
60°	14122.8	14947.8	17491.5	14091.2	13231.0	19814.0	23323.2	20805.9	14089.4	16185.4	19724.5
62.5°	13064.2	13949.0	16371.5	15776.4	15437.6	22038.2	25106.8	22982.6	16856.0	18757.2	18948.6
65°	11852.9	12746.5	15121.6	13864.7	15181.3	21943.4	24653.8	23033.5	17107.1	17008.8	17560.0
67.5°	10022.0	10824.2	12974.7	12272.5	13992.9	20884.8	22561.3	21581.8	15760.6	15908.1	16153.9
70°	7315.1	8087.5	10083.4	10118.5	12219.8	18976.6	19385.7	19250.5	14514.2	14670.5	13968.3
72.5°	5284.0	5935.3	7657.4	8298.1	9755.2	15913.4	15630.7	16152.1	12453.3	13066.0	11219.2
75°	3798.8	4286.9	5617.5	7218.5	7732.9	11817.8	11189.4	12509.5	9992.1	11250.8	8435.0
77.5°	1541.3	1713.3	2210.1	4862.7	5082.1	7950.5	6849.9	9086.3	7123.7	7392.3	4088.5
80°	63.2	70.2	91.3	2510.3	3484.6	4472.9	3665.4	4857.4	4704.7	2977.3	965.5
82.5°	7.0	7.0	15.8	723.3	1525.5	2468.2	1727.4	2798.2	2382.2	1262.2	438.9
85°	1.8	1.8	3.5	82.5	358.1	395.0	233.5	858.4	1107.7	516.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	15.8	17.6	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



REPORT NUMBER: P637770

CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	795.2	786.5	775.9	765.4	760.1	746.1	740.8	737.3	733.8	735.5	735.5
5°	768.9	749.6	726.8	703.9	691.7	677.6	670.6	667.1	668.8	675.9	675.9
7.5°	765.4	728.5	679.4	649.5	635.5	624.9	617.9	614.4	616.2	624.9	628.5
10°	823.3	758.4	670.6	619.7	603.9	593.3	586.3	581.1	577.6	584.6	586.3
12.5°	948.0	858.4	712.7	616.2	588.1	574.0	568.8	558.2	553.0	556.5	558.2
15°	1206.0	1051.5	797.0	630.2	574.0	558.2	549.5	540.7	531.9	530.2	531.9
17.5°	1543.1	1321.9	925.1	663.6	563.5	544.2	531.9	519.6	507.3	505.6	503.8
20°	1960.9	1653.7	1104.2	716.2	554.7	531.9	514.4	496.8	481.0	475.7	475.7
22.5°	2341.8	2053.9	1334.2	781.2	542.4	514.4	493.3	472.2	454.7	445.9	444.1
25°	2807.0	2478.7	1609.8	856.7	524.9	491.5	468.7	447.6	430.1	419.6	416.0
27.5°	3275.7	2926.4	1922.2	955.0	503.8	468.7	447.6	428.3	409.0	396.7	393.2
30°	3730.4	3409.1	2273.3	1077.9	488.0	445.9	428.3	409.0	391.5	372.2	366.9
32.5°	4218.4	3902.4	2666.6	1214.8	475.7	430.1	410.8	393.2	370.4	352.8	344.1
35°	4688.9	4411.5	3100.2	1348.2	463.4	416.0	395.0	377.4	352.8	333.5	321.3
37.5°	5162.8	4929.4	3553.1	1429.0	445.9	396.7	377.4	363.4	335.3	312.5	298.4
40°	5664.9	5464.8	4042.9	1395.6	430.1	375.7	365.1	349.3	317.7	291.4	273.9
42.5°	6216.1	5975.6	4541.4	1267.5	416.0	358.1	347.6	331.8	301.9	270.3	247.5
45°	6909.5	6535.6	4950.4	1074.3	423.1	340.6	319.5	316.0	287.9	247.5	219.4
47.5°	8101.5	7395.8	5268.2	949.7	470.5	321.3	296.7	305.5	275.6	224.7	193.1
50°	9925.4	8821.2	5564.8	940.9	542.4	312.5	275.6	298.4	263.3	201.9	170.3
52.5°	11663.4	10269.5	5754.4	1018.2	605.6	335.3	254.5	289.7	254.5	186.1	154.5
55°	13325.8	11105.1	5415.6	1074.3	665.3	403.8	238.7	275.6	244.0	177.3	149.2
57.5°	15118.1	11477.3	4264.0	1188.5	707.5	461.7	242.3	254.5	230.0	172.0	147.5
60°	15653.5	11001.5	2573.5	1337.7	684.6	479.2	268.6	226.5	210.7	161.5	142.2
62.5°	14821.4	9872.8	1518.5	1218.3	665.3	452.9	307.2	208.9	191.3	147.5	131.7
65°	13576.8	8340.2	990.1	1028.7	705.7	403.8	326.5	200.1	173.8	133.4	115.9
67.5°	12154.9	6718.2	693.4	607.4	651.3	363.4	275.6	198.4	156.2	112.4	94.8
70°	10237.9	5031.2	488.0	402.0	542.4	323.0	214.2	193.1	136.9	91.3	73.7
72.5°	7910.2	3149.3	363.4	259.8	386.2	263.3	170.3	163.3	110.6	75.5	56.2
75°	5833.4	1795.8	256.3	187.8	254.5	200.1	126.4	115.9	94.8	72.0	50.9
77.5°	3045.7	898.8	159.7	143.9	145.7	124.6	91.3	84.3	87.8	72.0	47.4
80°	584.6	179.1	96.6	105.3	79.0	79.0	66.7	70.2	77.2	57.9	40.4
82.5°	244.0	38.6	52.7	59.7	49.2	54.4	54.4	56.2	54.4	42.1	29.8
85°	0.0	0.0	22.8	24.6	33.4	33.4	28.1	28.1	28.1	24.6	17.6
87.5°	0.0	0.0	0.0	0.0	1.8	5.3	10.5	12.3	14.0	10.5	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637770

CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	733.8	730.3	735.5	739.1	742.6	742.6	739.1	735.5	730.3	735.5	730.3
5°	677.6	682.9	691.7	695.2	698.7	691.7	688.1	677.6	668.8	670.6	667.1
7.5°	633.7	639.0	649.5	656.5	656.5	653.0	642.5	632.0	617.9	617.9	616.2
10°	593.3	600.4	612.7	621.4	624.9	621.4	610.9	596.9	584.6	584.6	579.3
12.5°	560.0	568.8	582.8	595.1	598.6	595.1	584.6	570.5	556.5	556.5	553.0
15°	531.9	542.4	558.2	572.3	577.6	572.3	560.0	542.4	528.4	530.2	524.9
17.5°	505.6	514.4	535.4	551.2	556.5	551.2	535.4	512.6	498.6	502.1	498.6
20°	475.7	486.3	507.3	524.9	530.2	524.9	507.3	482.8	468.7	468.7	470.5
22.5°	444.1	454.7	475.7	488.0	495.0	489.8	472.2	449.4	435.4	435.4	437.1
25°	416.0	421.3	437.1	449.4	451.2	445.9	431.8	414.3	403.8	409.0	410.8
27.5°	389.7	389.7	396.7	403.8	402.0	396.7	391.5	377.4	375.7	380.9	386.2
30°	361.6	352.8	349.3	344.1	342.3	340.6	345.8	345.8	349.3	356.4	361.6
32.5°	337.1	319.5	303.7	287.9	279.1	286.1	300.2	312.5	324.8	335.3	340.6
35°	309.0	280.9	254.5	233.5	219.4	230.0	252.8	275.6	296.7	310.7	319.5
37.5°	280.9	240.5	208.9	182.6	172.0	180.8	205.4	237.0	268.6	286.1	298.4
40°	251.0	200.1	163.3	142.2	131.7	140.4	165.0	196.6	238.7	261.6	277.4
42.5°	221.2	165.0	131.7	110.6	105.3	110.6	129.9	161.5	207.1	235.2	256.3
45°	191.3	136.9	105.3	89.5	84.3	89.5	105.3	131.7	177.3	208.9	233.5
47.5°	165.0	115.9	87.8	73.7	70.2	75.5	87.8	110.6	149.2	180.8	208.9
50°	143.9	101.8	75.5	63.2	59.7	65.0	75.5	93.0	126.4	154.5	184.3
52.5°	129.9	94.8	66.7	54.4	52.7	56.2	65.0	79.0	107.1	131.7	159.7
55°	126.4	94.8	61.4	49.2	47.4	50.9	57.9	68.5	93.0	114.1	138.7
57.5°	129.9	101.8	57.9	42.1	40.4	43.9	50.9	59.7	80.8	98.3	121.1
60°	129.9	103.6	50.9	33.4	31.6	35.1	42.1	52.7	72.0	86.0	105.3
62.5°	117.6	94.8	42.1	26.3	22.8	26.3	35.1	43.9	63.2	77.2	93.0
65°	101.8	80.8	35.1	19.3	15.8	19.3	28.1	36.9	54.4	66.7	84.3
67.5°	82.5	61.4	26.3	14.0	10.5	14.0	21.1	29.8	45.6	57.9	75.5
70°	61.4	43.9	21.1	12.3	10.5	12.3	19.3	28.1	40.4	52.7	70.2
72.5°	45.6	29.8	17.6	12.3	8.8	12.3	17.6	26.3	38.6	50.9	66.7
75°	38.6	24.6	15.8	10.5	8.8	10.5	15.8	24.6	35.1	47.4	63.2
77.5°	36.9	22.8	14.0	8.8	7.0	8.8	14.0	21.1	31.6	43.9	61.4
80°	31.6	19.3	12.3	7.0	5.3	7.0	12.3	17.6	24.6	33.4	47.4
82.5°	24.6	15.8	8.8	3.5	1.8	3.5	8.8	10.5	15.8	19.3	28.1
85°	15.8	8.8	3.5	0.0	0.0	0.0	3.5	7.0	7.0	8.8	14.0
87.5°	7.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637770
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0	790.0
2.5°	740.8	742.6	746.1	751.3	763.6	774.2	784.7	798.7	805.8	805.8
5°	670.6	672.3	674.1	681.1	698.7	712.7	735.5	763.6	777.7	781.2
7.5°	616.2	619.7	623.2	628.5	646.0	665.3	695.2	747.8	774.2	779.4
10°	584.6	589.8	596.9	607.4	623.2	644.3	695.2	790.0	833.8	842.6
12.5°	560.0	568.8	575.8	588.1	607.4	640.7	742.6	909.3	986.6	1007.6
15°	535.4	546.0	556.5	568.8	589.8	653.0	833.8	1123.5	1251.7	1267.5
17.5°	510.8	523.1	537.2	551.2	577.6	682.9	977.8	1420.2	1599.2	1634.3
20°	482.8	498.6	517.9	535.4	565.3	730.3	1177.9	1773.0	1997.7	2073.2
22.5°	452.9	472.2	495.0	517.9	551.2	788.2	1420.2	2152.2	2466.4	2515.6
25°	428.3	447.6	468.7	491.5	528.4	858.4	1713.3	2622.7	2908.8	2956.2
27.5°	405.5	424.8	444.1	465.2	505.6	949.7	2066.2	3123.0	3421.4	3470.6
30°	380.9	403.8	423.1	444.1	484.5	1062.1	2473.5	3677.7	3960.3	4006.0
32.5°	359.9	382.7	402.0	423.1	468.7	1184.9	2901.8	4169.2	4399.2	4399.2
35°	342.3	366.9	380.9	409.0	456.4	1263.9	3307.3	4638.0	4811.7	4804.7
37.5°	323.0	352.8	363.4	382.7	440.6	1272.7	3688.2	5133.0	5261.1	5215.5
40°	303.7	335.3	351.1	361.6	423.1	1200.7	4106.0	5587.7	5696.5	5636.8
42.5°	286.1	310.7	333.5	345.8	412.5	1074.3	4441.3	6073.9	6203.8	6151.2
45°	268.6	289.7	303.7	326.5	419.6	986.6	4729.2	6640.9	6869.2	6830.5
47.5°	251.0	268.6	277.4	312.5	467.0	946.2	4904.8	7518.7	7948.8	7917.2
50°	231.7	252.8	252.8	309.0	537.2	960.2	5057.5	8789.6	9455.0	9444.4
52.5°	212.4	235.2	231.7	335.3	591.6	1025.2	5231.3	9911.4	11068.2	11164.8
55°	193.1	214.2	217.7	388.0	623.2	1081.4	4559.0	10383.6	12446.3	12785.1
57.5°	172.0	184.3	226.5	428.3	612.7	1244.6	3123.0	10469.6	13325.8	14052.6
60°	149.2	159.7	256.3	419.6	579.3	1149.8	1966.1	9697.2	13201.1	14122.8
62.5°	129.9	147.5	270.3	370.4	589.8	997.1	1253.4	8264.8	12012.7	13064.2
65°	114.1	142.2	245.8	335.3	596.9	675.9	846.1	6723.5	10852.3	11852.9
67.5°	101.8	158.0	201.9	298.4	512.6	475.7	581.1	5224.3	9124.9	10022.0
70°	93.0	161.5	165.0	256.3	396.7	305.5	382.7	3516.2	6289.9	7315.1
72.5°	84.3	119.4	124.6	205.4	256.3	186.1	247.5	2011.8	4585.3	5284.0
75°	80.8	80.8	86.0	133.4	142.2	135.2	159.7	1200.7	3288.0	3798.8
77.5°	75.5	61.4	54.4	86.0	77.2	96.6	94.8	533.7	1425.4	1541.3
80°	59.7	43.9	36.9	54.4	52.7	65.0	56.2	43.9	65.0	63.2
82.5°	36.9	28.1	26.3	33.4	29.8	33.4	26.3	7.0	7.0	7.0
85°	17.6	15.8	14.0	14.0	15.8	14.0	10.5	3.5	1.8	1.8
87.5°	8.8	8.8	7.0	5.3	7.0	7.0	5.3	1.8	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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