

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: P637273

Luminaire Tested: GWS-SA4C-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10356 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

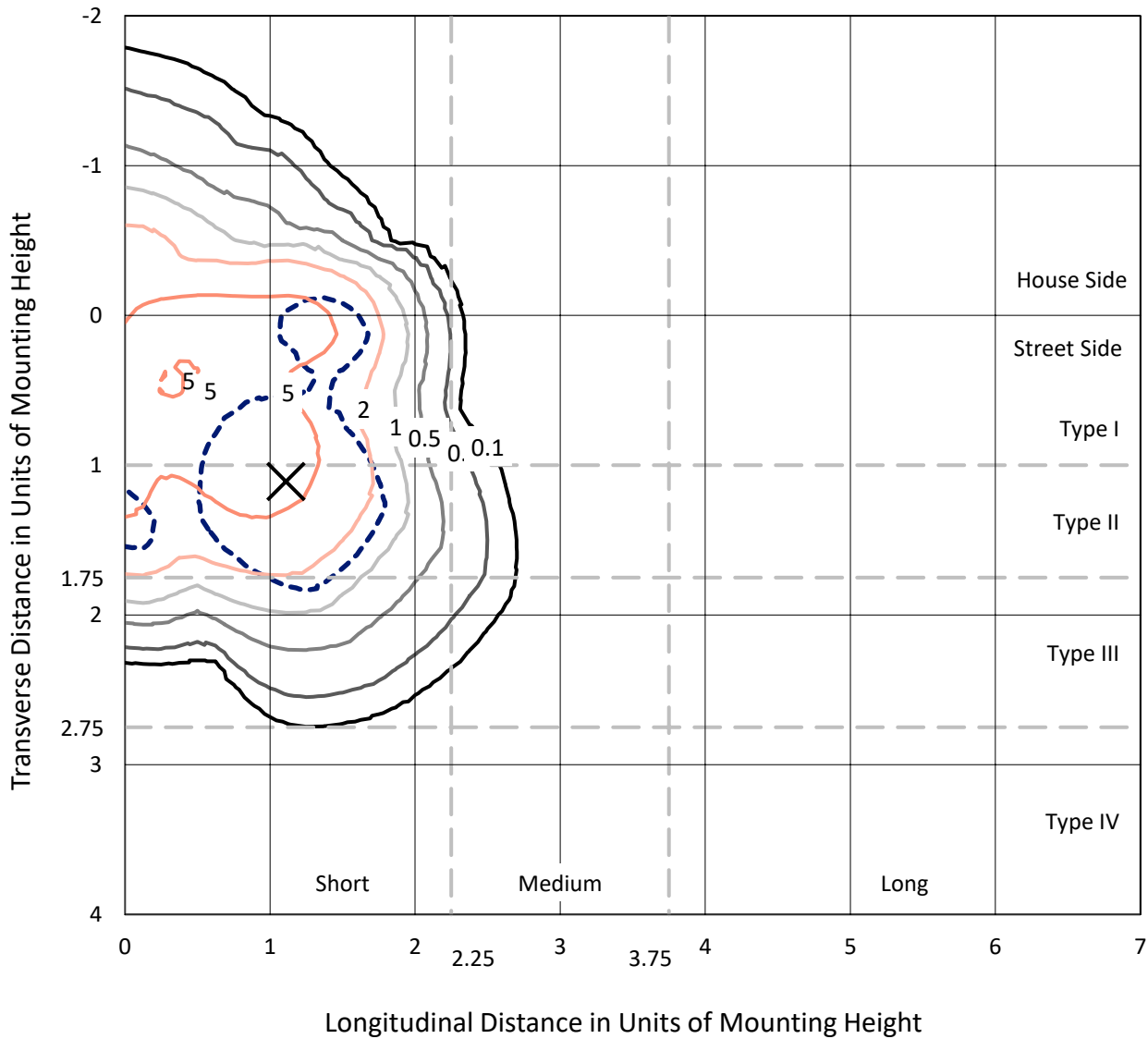
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

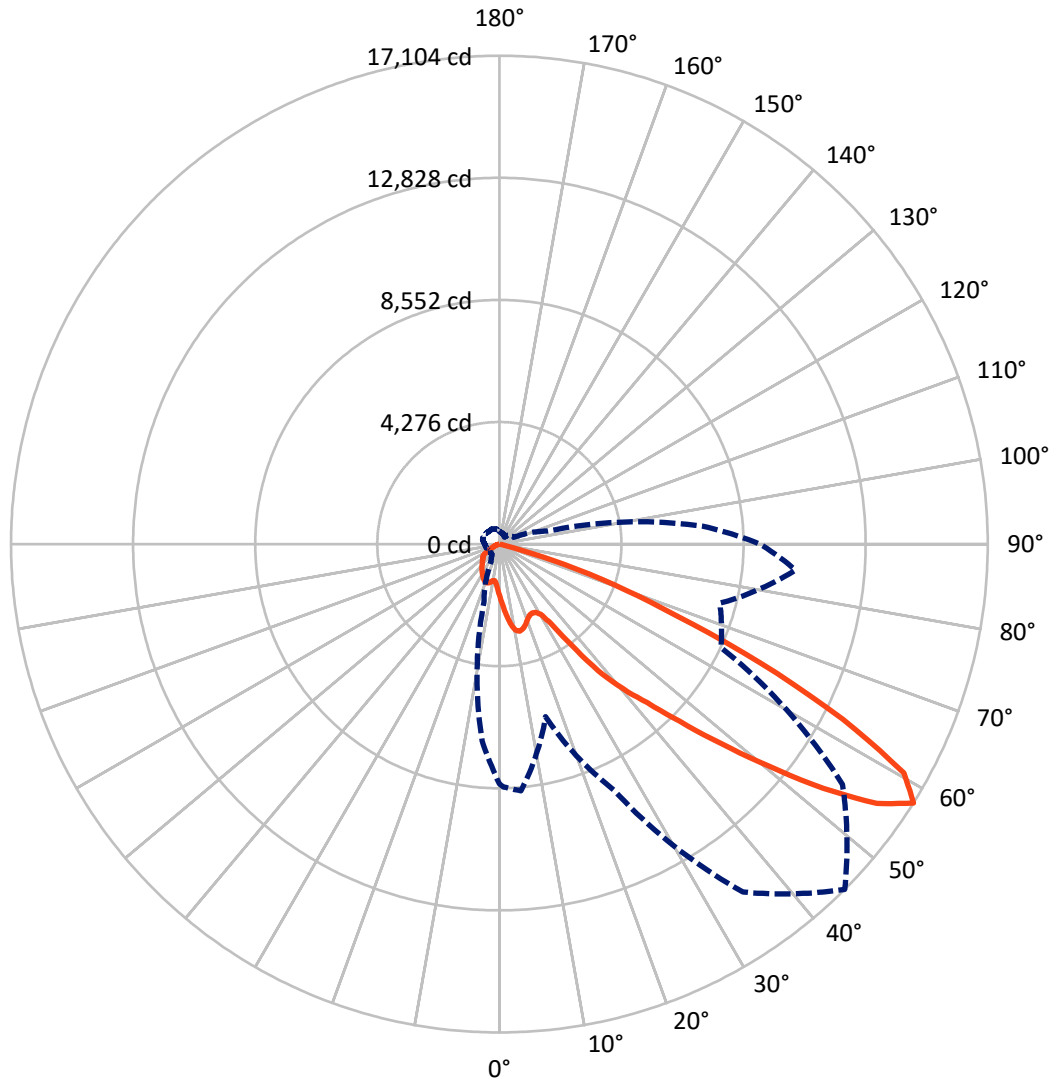
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2319.0	0.0	2319.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8037.0	0.0	8037.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	10356.0	0.0	10356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	1.7
10°-20°	579.3	5.6
20°-30°	941.0	9.1
30°-40°	1453.9	14.0
40°-50°	2331.4	22.5
50°-60°	3186.4	30.8
60°-70°	1543.3	14.9
70°-80°	141.3	1.4
80°-90°	0.4	0.0
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°	10356.0	100.0
0°-180°	10356.0	100.0

Coefficient of Utilization



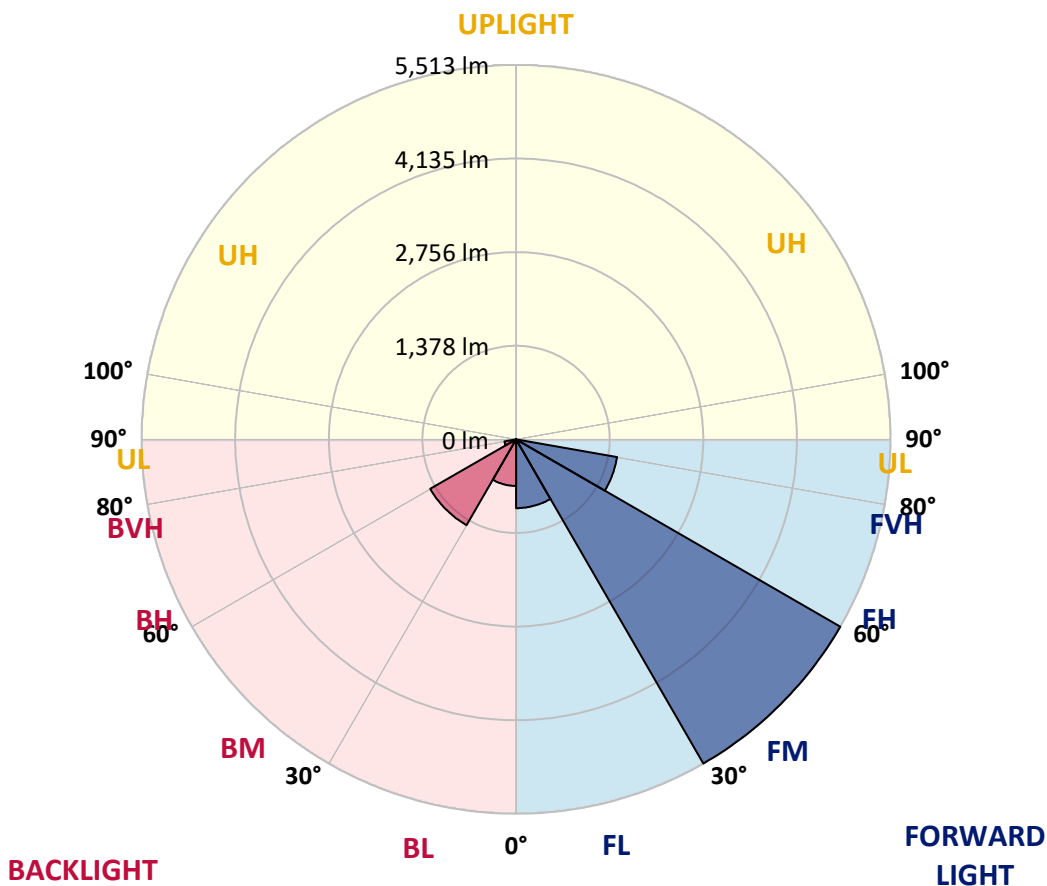
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.1	9.8			
FM (30°-60°)	5512.7	53.2			
FH (60°-80°)	1510.7	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	686.2	6.6	B2/1000		
BM (30°-60°)	1459.0	14.1	B2/2500		
BH (60°-80°)	173.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1971.9	1984.4	2005.3	2049.8	2087.4	2112.4	2123.5	2120.8	2105.5	2094.3	2072.1
5°	2183.4	2183.4	2223.7	2325.3	2403.2	2452.0	2477.0	2461.7	2431.1	2382.4	2307.2
7.5°	2368.5	2375.4	2443.6	2588.3	2706.6	2776.2	2816.5	2808.2	2753.9	2660.7	2510.4
10°	2513.2	2521.5	2612.0	2788.7	2927.9	2998.8	3058.7	3064.2	3004.4	2880.6	2708.0
12.5°	2653.7	2662.1	2756.7	2926.5	3048.9	3078.2	3131.0	3151.9	3136.6	3048.9	2869.4
15°	2805.4	2824.9	2905.6	3032.2	3083.7	3048.9	3083.7	3121.3	3172.8	3164.4	3003.0
17.5°	2954.3	2968.2	3050.3	3094.9	3037.8	2947.4	2964.1	3008.6	3125.5	3239.6	3135.2
20°	3092.1	3111.6	3179.7	3121.3	2948.7	2808.2	2809.6	2868.0	3046.2	3285.5	3270.2
22.5°	3236.8	3266.0	3314.7	3150.5	2866.6	2698.3	2705.2	2758.1	2983.5	3328.6	3423.3
25°	3426.1	3453.9	3485.9	3222.9	2840.2	2644.0	2670.4	2719.1	2983.5	3402.4	3612.5
27.5°	3682.1	3701.6	3703.0	3357.9	2886.1	2652.3	2708.0	2763.7	3072.6	3549.9	3865.8
30°	4003.6	4034.2	3993.8	3568.0	3029.5	2763.7	2845.8	2915.3	3264.6	3799.0	4238.7
32.5°	4394.6	4437.7	4383.5	3879.7	3328.6	3147.7	3296.6	3337.0	3570.8	4159.4	4661.8
35°	4853.8	4890.0	4831.5	4311.1	4027.2	4060.6	4330.6	4279.1	4185.9	4603.3	5155.8
37.5°	5357.6	5391.0	5278.2	4965.1	5059.8	5204.5	5635.9	5459.1	5158.6	5175.3	5691.5
40°	5819.6	5855.7	5679.0	5676.2	5871.0	6135.4	6655.9	6412.4	6003.2	5923.9	6193.9
42.5°	6298.3	6323.3	6163.3	6054.7	6497.3	7041.4	7592.4	7264.0	6562.7	6476.4	6822.9
45°	6981.5	7034.4	6749.1	6241.2	7060.8	8083.7	8851.8	8210.3	6944.0	6874.4	7785.9
47.5°	7986.2	8025.2	7443.5	6358.1	7585.5	9382.0	10425.7	9437.7	7279.3	7120.7	9102.3
50°	8817.0	8843.4	8082.3	6486.1	8143.5	10781.9	12219.4	10893.2	7656.4	7528.4	10331.0
52.5°	9429.3	9529.5	8921.4	6749.1	8876.8	12428.1	14205.2	12617.4	8245.1	8316.0	11349.7
55°	9555.9	9692.3	9494.7	6910.6	9522.5	14105.0	16039.3	14160.7	8832.3	8913.0	11692.0
57.5°	8398.1	8506.7	8670.9	6259.3	9507.2	14873.1	17103.8	14672.8	8565.1	7993.2	10410.4
60°	6291.3	6366.4	6664.2	4784.2	8743.3	14194.0	16274.5	13801.6	7489.4	6099.3	7932.0
62.5°	3730.8	3764.2	4141.3	3099.0	7257.1	12223.6	13496.9	11909.1	5918.4	4102.4	4858.0
65°	1431.9	1418.0	1706.1	1529.3	5336.7	9736.8	10038.8	9078.6	4060.6	1880.0	1852.2
67.5°	221.3	211.5	285.3	452.3	3849.1	6747.7	6623.9	6543.2	2543.8	438.3	382.7
70°	50.1	50.1	61.2	133.6	2351.8	3964.6	4242.9	4045.3	1628.1	93.2	50.1
72.5°	23.7	23.7	29.2	57.1	851.6	1633.7	1903.7	1874.4	528.8	30.6	18.1
75°	8.3	9.7	9.7	12.5	51.5	84.9	194.8	139.2	33.4	0.0	0.0
77.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	2023.3	2013.6	1977.4	1928.7	1881.4	1839.7	1796.5	1745.0	1707.5	1664.3	1650.4
5°	2248.8	2187.6	2088.8	1985.8	1891.1	1810.4	1732.5	1649.0	1587.8	1526.6	1505.7
7.5°	2439.4	2349.0	2188.9	2034.5	1905.1	1791.0	1678.2	1564.1	1475.1	1402.7	1380.4
10°	2610.6	2506.2	2291.9	2101.3	1938.5	1806.3	1669.9	1526.6	1411.1	1324.8	1303.9
12.5°	2758.1	2637.0	2379.6	2151.4	1952.4	1800.7	1668.5	1554.4	1450.0	1351.2	1324.8
15°	2881.9	2748.4	2453.3	2184.8	1931.5	1731.1	1615.6	1597.5	1589.2	1480.6	1429.1
17.5°	3003.0	2852.7	2513.2	2200.1	1873.1	1608.7	1525.2	1607.3	1694.9	1624.0	1558.6
20°	3129.6	2958.5	2574.4	2202.9	1775.6	1470.9	1457.0	1586.4	1697.7	1675.5	1614.2
22.5°	3278.5	3090.7	2650.9	2201.5	1653.2	1354.0	1406.9	1546.0	1636.5	1635.1	1586.4
25°	3494.2	3257.7	2753.9	2209.8	1519.6	1263.5	1351.2	1477.9	1551.6	1548.8	1508.5
27.5°	3725.2	3456.7	2887.5	2230.7	1405.5	1210.7	1285.8	1384.6	1448.6	1445.8	1411.1
30°	4049.5	3686.3	3015.5	2232.1	1323.4	1182.8	1213.5	1281.6	1342.9	1335.9	1309.5
32.5°	4443.3	3945.1	3122.7	2152.8	1271.9	1156.4	1138.3	1173.1	1220.4	1210.7	1203.7
35°	4919.2	4252.6	3214.5	1978.8	1192.6	1103.5	1054.8	1061.8	1095.2	1100.7	1098.0
37.5°	5461.9	4618.6	3328.6	1749.2	1085.4	1027.0	961.6	956.0	975.5	993.6	1007.5
40°	5997.7	5030.5	3483.1	1516.8	988.0	929.6	867.0	853.0	861.4	893.4	922.6
42.5°	6600.2	5507.8	3650.1	1317.8	921.2	822.4	762.6	736.1	759.8	811.3	846.1
45°	7468.6	6177.2	3812.9	1159.2	893.4	727.8	647.1	644.3	670.7	737.5	776.5
47.5°	8687.6	7042.8	3920.1	1035.3	892.0	654.0	558.0	574.7	605.3	670.7	715.3
50°	9876.0	8126.8	3801.8	940.7	862.8	605.3	491.2	524.6	555.2	612.3	658.2
52.5°	10592.7	8709.9	3341.2	851.6	772.3	583.1	425.8	484.3	489.8	541.3	590.0
55°	10517.5	8332.7	2559.1	713.9	638.7	551.1	357.6	437.0	439.7	478.7	520.4
57.5°	9128.7	7154.1	1757.6	578.9	480.1	455.0	295.0	368.8	395.2	418.9	449.5
60°	6803.4	5219.8	783.5	470.4	304.8	307.5	251.9	278.3	318.7	346.5	372.9
62.5°	4009.1	3003.0	318.7	282.5	168.4	193.4	203.2	203.2	228.2	249.1	265.8
65°	1515.4	1050.6	129.4	141.9	87.7	90.5	119.7	147.5	167.0	185.1	207.3
67.5°	265.8	183.7	66.8	52.9	51.5	45.9	61.2	96.0	107.2	121.1	130.8
70°	44.5	37.6	27.8	26.4	23.7	25.0	40.4	68.2	75.1	79.3	83.5
72.5°	12.5	11.1	8.3	7.0	5.6	7.0	25.0	52.9	55.7	58.4	62.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	37.6	40.4	41.7	45.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	11.1	13.9	11.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1642.1	1614.2	1598.9	1590.6	1590.6	1579.4	1566.9	1562.7	1580.8	1580.8	1611.4
5°	1479.2	1457.0	1431.9	1416.6	1393.0	1397.1	1383.2	1381.8	1399.9	1408.3	1440.3
7.5°	1366.5	1338.7	1323.4	1313.6	1301.1	1295.6	1283.0	1278.9	1288.6	1302.5	1333.1
10°	1291.4	1287.2	1285.8	1292.8	1292.8	1285.8	1274.7	1267.7	1270.5	1296.9	1331.7
12.5°	1310.9	1319.2	1322.0	1333.1	1338.7	1333.1	1324.8	1327.6	1345.7	1394.4	1445.8
15°	1395.7	1388.8	1386.0	1391.6	1395.7	1390.2	1387.4	1408.3	1470.9	1540.5	1598.9
17.5°	1486.2	1441.7	1422.2	1422.2	1425.0	1422.2	1425.0	1465.3	1566.9	1636.5	1679.6
20°	1532.1	1450.0	1419.4	1412.4	1418.0	1419.4	1429.1	1475.1	1586.4	1635.1	1644.8
22.5°	1518.2	1415.2	1380.4	1374.9	1380.4	1386.0	1395.7	1434.7	1539.1	1564.1	1560.0
25°	1448.6	1347.0	1319.2	1319.2	1331.7	1330.3	1334.5	1362.4	1448.6	1463.9	1457.0
27.5°	1361.0	1264.9	1241.3	1255.2	1266.3	1263.5	1264.9	1288.6	1352.6	1356.8	1349.8
30°	1271.9	1188.4	1166.1	1182.8	1198.1	1195.4	1196.8	1220.4	1260.8	1256.6	1246.8
32.5°	1181.4	1120.2	1103.5	1113.3	1136.9	1134.1	1139.7	1164.7	1180.1	1162.0	1150.8
35°	1098.0	1065.9	1053.4	1059.0	1077.1	1081.3	1091.0	1107.7	1107.7	1085.4	1065.9
37.5°	1020.0	1015.8	1007.5	1000.5	1017.2	1029.8	1043.7	1063.2	1035.3	1003.3	985.2
40°	947.7	965.8	954.6	936.5	946.3	964.4	992.2	1007.5	974.1	942.1	911.5
42.5°	880.9	911.5	907.3	885.0	893.4	910.1	942.1	954.6	915.7	879.5	850.3
45°	816.9	860.0	862.8	834.9	843.3	860.0	897.6	901.7	851.6	812.7	791.8
47.5°	761.2	808.5	809.9	789.0	791.8	815.5	850.3	851.6	794.6	758.4	732.0
50°	708.3	762.6	766.8	748.7	751.4	779.3	808.5	802.9	741.7	704.1	680.5
52.5°	644.3	718.1	727.8	719.4	730.6	752.8	770.9	751.4	680.5	642.9	622.0
55°	574.7	670.7	691.6	686.0	698.6	716.7	720.8	708.3	619.3	581.7	562.2
57.5°	494.0	552.5	588.6	577.5	587.2	605.3	617.9	608.1	541.3	512.1	495.4
60°	409.1	448.1	456.4	438.3	430.0	462.0	491.2	478.7	421.6	403.6	384.1
62.5°	299.2	343.7	349.3	325.6	315.9	350.7	375.7	363.2	300.6	281.1	265.8
65°	239.4	281.1	292.2	270.0	264.4	290.8	306.1	275.5	231.0	210.1	193.4
67.5°	157.2	190.6	219.9	218.5	207.3	215.7	204.6	179.5	147.5	136.4	125.2
70°	97.4	116.9	135.0	141.9	140.5	137.8	122.5	104.4	94.6	90.5	84.9
72.5°	75.1	94.6	108.5	112.7	114.1	109.9	97.4	80.7	71.0	65.4	61.2
75°	55.7	71.0	82.1	87.7	90.5	87.7	75.1	64.0	54.3	50.1	45.9
77.5°	19.5	23.7	29.2	32.0	30.6	29.2	26.4	26.4	20.9	19.5	16.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P637273
 CATALOG NUMBER: GWS-SA4C-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1646.2	1671.3	1717.2	1758.9	1803.5	1849.4	1899.5	1951.0	1974.6	1971.9
5°	1489.0	1543.3	1618.4	1700.5	1792.3	1891.1	2001.1	2113.8	2162.5	2183.4
7.5°	1390.2	1466.7	1565.5	1669.9	1791.0	1931.5	2097.1	2273.8	2344.8	2368.5
10°	1402.7	1491.8	1573.9	1675.5	1804.9	1987.2	2193.1	2403.2	2486.7	2513.2
12.5°	1504.3	1523.8	1546.0	1629.5	1792.3	2028.9	2280.8	2531.3	2627.3	2653.7
15°	1596.1	1505.7	1463.9	1540.5	1747.8	2058.1	2369.8	2669.0	2774.8	2805.4
17.5°	1600.3	1463.9	1370.7	1430.5	1675.5	2070.7	2457.5	2809.6	2925.1	2954.3
20°	1548.8	1418.0	1298.3	1299.7	1576.7	2067.9	2529.9	2936.2	3065.6	3092.1
22.5°	1473.7	1363.7	1239.9	1196.8	1470.9	2062.3	2609.2	3071.2	3211.8	3236.8
25°	1390.2	1294.2	1184.2	1118.8	1365.1	2067.9	2720.5	3247.9	3402.4	3426.1
27.5°	1299.7	1217.6	1141.1	1088.2	1276.1	2088.8	2854.1	3473.4	3657.1	3682.1
30°	1205.1	1143.9	1113.3	1081.3	1220.4	2094.3	2998.8	3736.4	3968.8	4003.6
32.5°	1111.9	1078.5	1079.9	1085.4	1167.5	2055.4	3131.0	4028.6	4338.9	4394.6
35°	1025.6	1015.8	1043.7	1071.5	1091.0	1955.2	3246.5	4373.7	4796.8	4853.8
37.5°	951.8	960.2	995.0	1022.8	1007.5	1813.2	3399.6	4805.1	5308.9	5357.6
40°	880.9	901.7	942.1	954.6	943.5	1647.6	3583.3	5221.2	5752.8	5819.6
42.5°	815.5	830.8	887.8	890.6	925.4	1479.2	3760.0	5669.3	6263.5	6298.3
45°	762.6	759.8	818.2	836.3	949.1	1292.8	3932.6	6266.3	6931.4	6981.5
47.5°	711.1	708.3	722.2	804.3	958.8	1120.2	4103.8	7140.2	7900.0	7986.2
50°	662.4	666.6	623.4	789.0	905.9	988.0	4181.7	7948.7	8780.8	8817.0
52.5°	619.3	603.9	528.8	738.9	793.2	862.8	3960.4	8316.0	9326.3	9429.3
55°	558.0	473.1	435.6	599.8	626.2	752.8	3243.8	8103.1	9373.6	9555.9
57.5°	477.3	371.6	370.2	442.5	442.5	698.6	2077.6	6923.1	8078.1	8398.1
60°	367.4	288.1	306.1	307.5	283.9	509.3	1166.1	5015.2	5972.6	6291.3
62.5°	261.6	219.9	231.0	183.7	162.8	254.7	559.4	2887.5	3686.3	3730.8
65°	175.3	148.9	121.1	101.6	100.2	108.5	231.0	1043.7	1269.1	1431.9
67.5°	115.5	90.5	64.0	64.0	72.4	72.4	87.7	172.6	242.1	221.3
70°	75.1	62.6	40.4	39.0	47.3	47.3	44.5	47.3	50.1	50.1
72.5°	55.7	47.3	23.7	20.9	26.4	27.8	25.0	23.7	23.7	23.7
75°	41.7	33.4	13.9	9.7	12.5	16.7	13.9	9.7	9.7	8.3
77.5°	16.7	12.5	5.6	4.2	7.0	9.7	8.3	4.2	2.8	2.8
80°	1.4	2.8	2.8	2.8	4.2	5.6	7.0	2.8	1.4	1.4
82.5°	0.0	1.4	1.4	1.4	2.8	4.2	5.6	2.8	1.4	1.4
85°	0.0	0.0	0.0	0.0	2.8	4.2	2.8	1.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.4	4.2	2.8	1.4	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)