

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: P638039

Luminaire Tested: GWS-SA4E-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12087.3 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

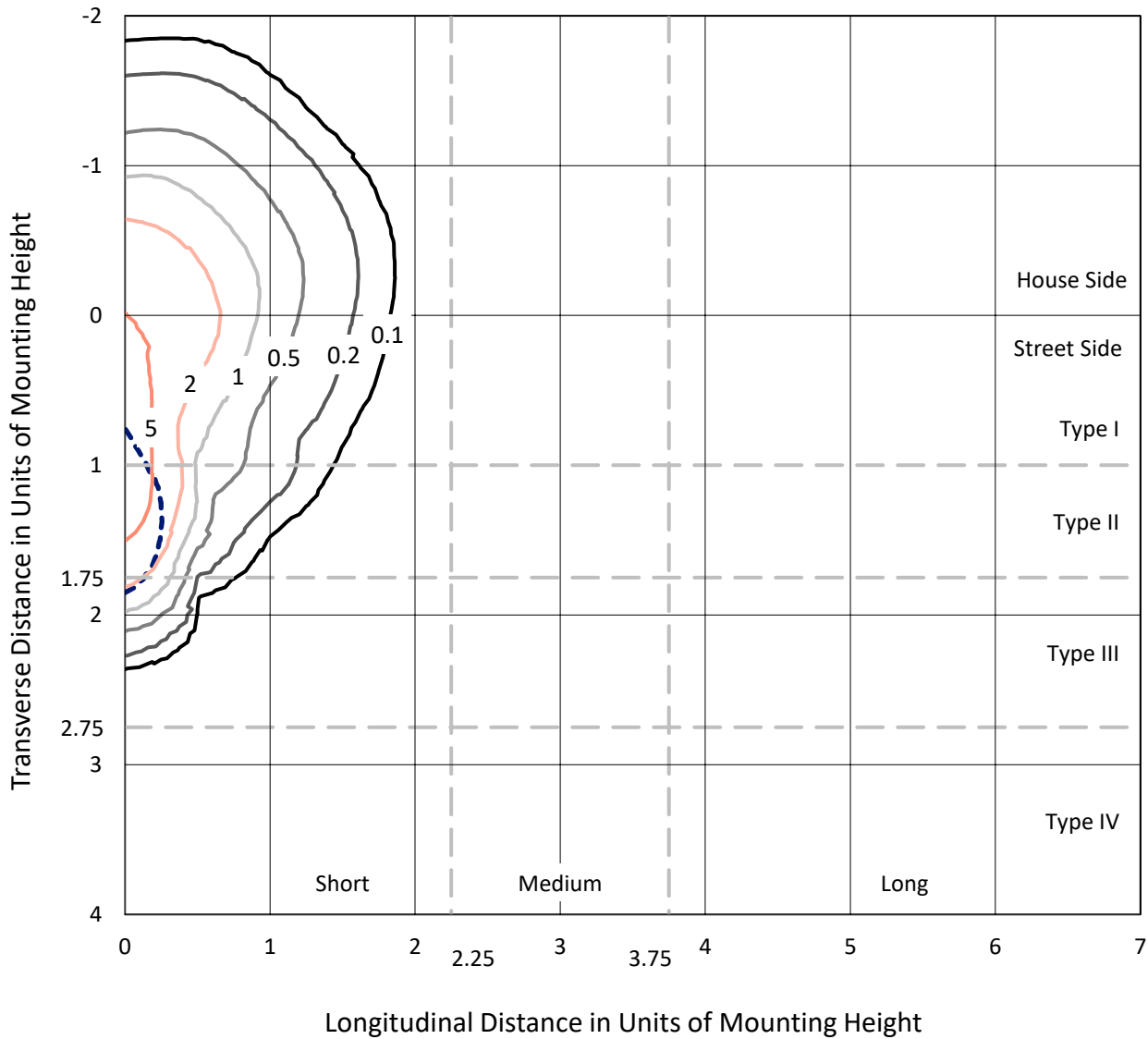
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

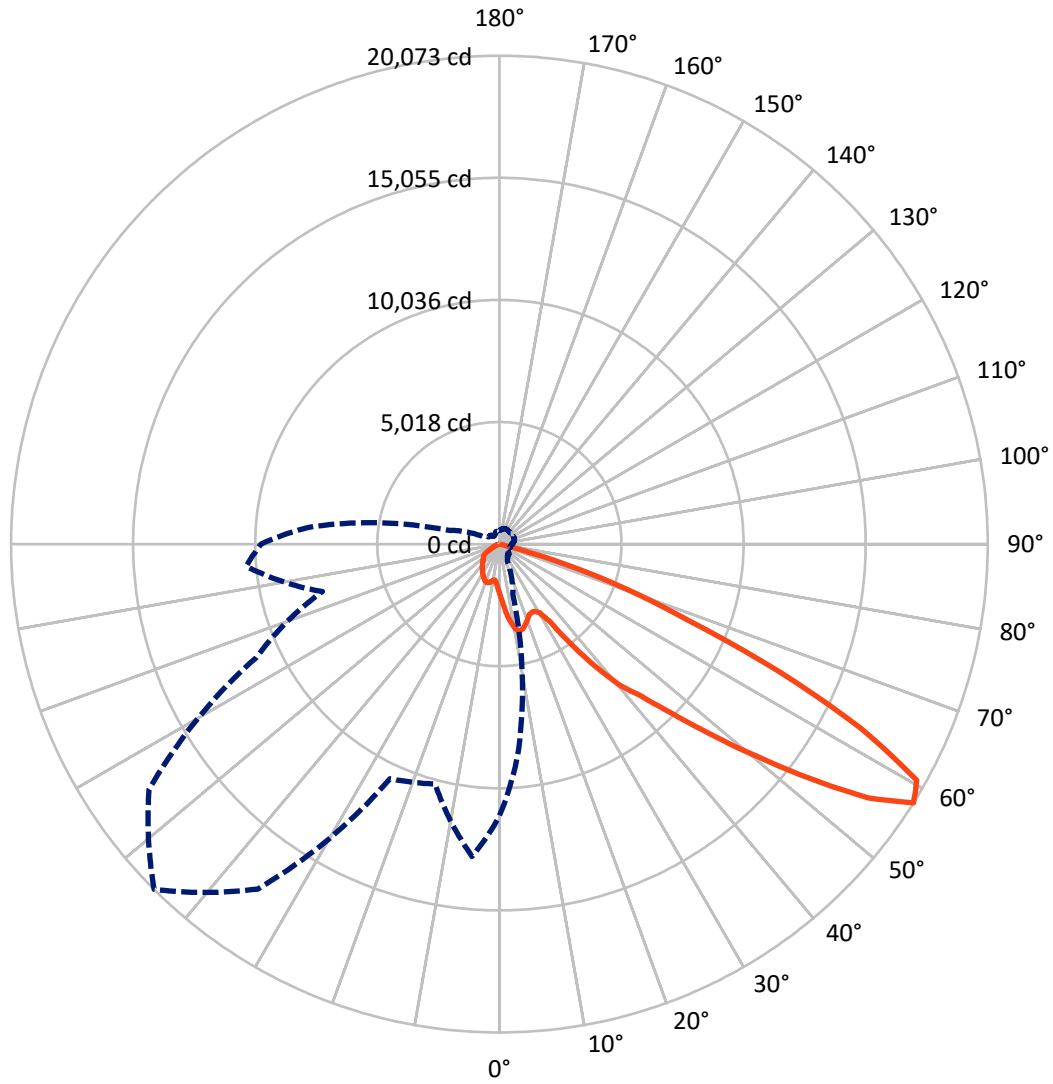
× Max cd
 - - - 1/2 Max cd



Based on 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 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2604.0	0.0	2604.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9483.3	0.0	9483.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	12087.3	0.0	12087.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	1.7
10°-20°	668.0	5.5
20°-30°	1084.0	9.0
30°-40°	1663.7	13.8
40°-50°	2657.1	22.0
50°-60°	3720.4	30.8
60°-70°	1907.5	15.8
70°-80°	183.7	1.5
80°-90°	0.0	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°	12087.3	100.0
0°-180°	12087.3	100.0

Coefficient of Utilization



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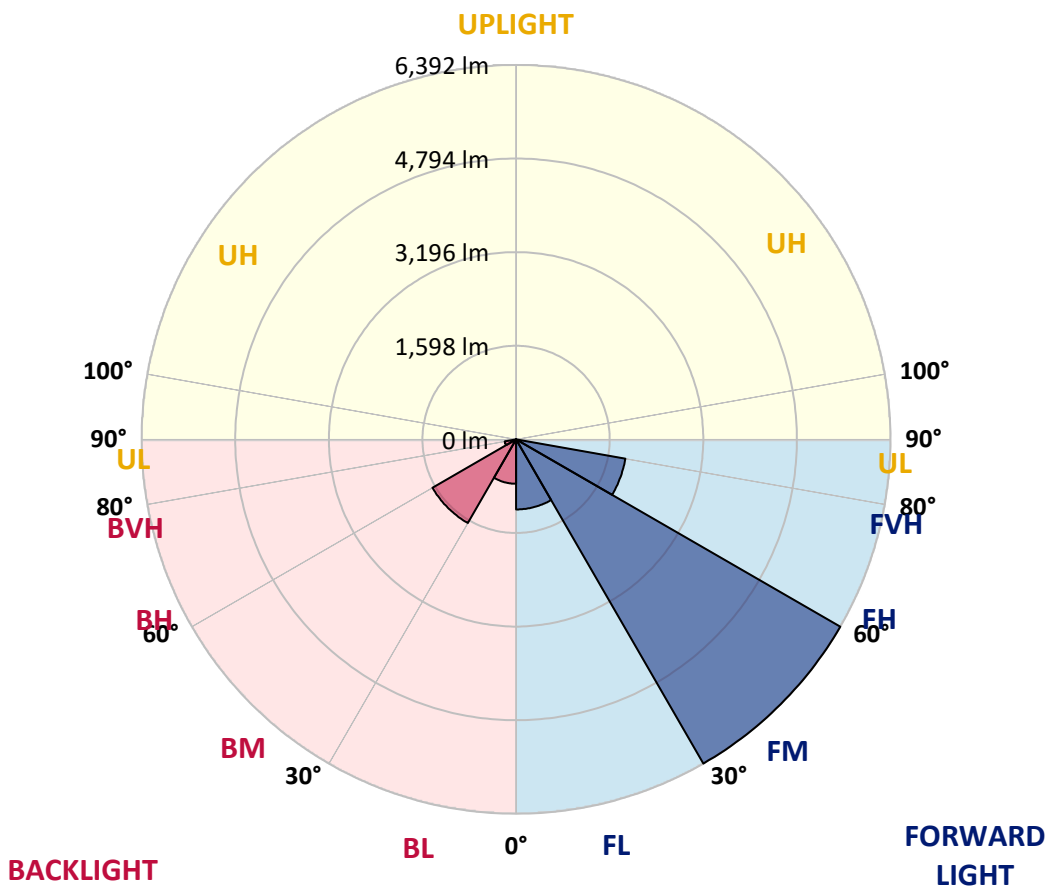
CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.7	9.9			
FM (30°-60°)	6392.1	52.9			
FH (60°-80°)	1894.5	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	758.2	6.3	B2/1000		
BM (30°-60°)	1649.1	13.6	B2/2500		
BH (60°-80°)	196.7	1.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	2281.7	2276.8	2260.6	2205.7	2171.8	2118.4	2079.7	2029.6	1974.6	1940.7	1906.8
5°	2524.0	2511.1	2467.5	2341.4	2244.5	2139.5	2055.4	1963.3	1864.8	1800.1	1740.3
7.5°	2756.7	2737.3	2679.2	2465.9	2318.8	2168.5	2049.0	1914.8	1775.9	1678.9	1604.6
10°	2984.6	2940.9	2848.8	2587.1	2388.3	2207.3	2066.7	1913.2	1750.0	1627.2	1544.8
12.5°	3172.0	3139.7	3013.7	2701.8	2446.5	2215.4	2042.5	1900.3	1790.4	1708.0	1632.1
15°	3333.6	3298.1	3178.5	2805.2	2496.6	2183.1	1940.7	1816.3	1834.0	1866.4	1801.7
17.5°	3482.3	3445.1	3315.8	2890.8	2516.0	2103.9	1798.5	1738.7	1837.3	1958.5	1934.2
20°	3635.8	3593.8	3435.4	2960.3	2509.5	1979.5	1654.7	1672.5	1811.4	1950.4	1963.3
22.5°	3815.1	3771.5	3587.3	3049.2	2504.6	1830.8	1530.3	1614.3	1762.9	1880.9	1903.5
25°	4052.7	4001.0	3799.0	3180.1	2517.6	1695.1	1441.4	1557.7	1680.5	1787.2	1800.1
27.5°	4366.2	4299.9	4043.0	3341.7	2545.0	1588.4	1402.6	1480.2	1575.5	1670.8	1682.2
30°	4775.0	4691.0	4322.5	3482.3	2532.1	1514.1	1376.7	1402.6	1459.2	1536.7	1538.3
32.5°	5253.3	5138.6	4636.0	3603.5	2420.6	1459.2	1341.2	1323.4	1336.4	1396.1	1407.5
35°	5815.6	5667.0	4981.8	3718.2	2217.0	1352.5	1276.6	1216.8	1211.9	1241.0	1268.5
37.5°	6460.4	6282.6	5418.1	3865.2	1976.2	1241.0	1181.2	1121.4	1095.6	1110.1	1152.1
40°	7055.0	6857.9	5873.8	4043.0	1730.6	1140.8	1069.7	1008.3	977.6	982.5	1034.2
42.5°	7753.1	7549.5	6431.3	4275.7	1527.0	1073.0	953.4	890.4	850.0	872.6	932.4
45°	8813.1	8582.1	7244.1	4477.7	1365.4	1056.8	851.6	762.7	743.3	782.1	853.2
47.5°	10261.0	9978.2	8360.7	4600.5	1228.1	1071.3	780.5	659.3	664.1	707.8	778.9
50°	11697.5	11392.1	9651.8	4438.9	1115.0	1042.3	744.9	578.5	609.2	648.0	712.6
52.5°	12684.8	12287.3	10280.4	3971.9	1011.6	932.4	741.7	502.5	560.7	573.6	628.6
55°	12723.6	12234.0	9958.8	3131.6	871.0	786.9	707.8	439.5	507.4	512.2	559.1
57.5°	11153.0	10710.2	8703.2	2150.8	774.0	576.9	563.9	384.6	416.9	457.3	486.4
60°	8485.1	8108.6	6508.9	985.7	588.2	366.8	386.2	331.3	311.9	371.7	400.7
62.5°	5196.7	4956.0	3904.0	436.3	374.9	195.5	234.3	263.4	234.3	256.9	281.2
65°	2063.5	1956.9	1481.8	185.8	153.5	98.6	106.6	153.5	164.8	181.0	203.6
67.5°	358.7	339.3	248.8	82.4	63.0	59.8	51.7	71.1	100.2	111.5	129.3
70°	46.9	45.2	40.4	33.9	32.3	29.1	22.6	45.2	67.9	71.1	82.4
72.5°	11.3	9.7	9.7	8.1	9.7	3.2	3.2	24.2	48.5	50.1	58.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	30.7	33.9	40.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	1879.3	1847.0	1835.7	1819.5	1798.5	1805.0	1775.9	1766.2	1780.7	1800.1	1795.3
5°	1708.0	1672.5	1648.2	1611.1	1604.6	1590.0	1580.4	1567.4	1583.6	1606.2	1611.1
7.5°	1572.3	1541.6	1517.3	1506.0	1497.9	1491.5	1472.1	1462.4	1462.4	1472.1	1480.2
10°	1514.1	1491.5	1486.6	1489.9	1502.8	1501.2	1483.4	1470.5	1454.3	1446.2	1455.9
12.5°	1594.9	1557.7	1551.3	1552.9	1569.0	1567.4	1548.0	1531.9	1528.6	1531.9	1562.6
15°	1732.2	1675.7	1633.7	1625.6	1633.7	1630.4	1615.9	1606.2	1611.1	1657.9	1709.6
17.5°	1855.1	1767.8	1691.8	1662.8	1661.1	1656.3	1641.8	1638.5	1662.8	1750.0	1826.0
20°	1890.6	1805.0	1696.7	1659.5	1651.5	1646.6	1630.4	1635.3	1666.0	1771.0	1835.7
22.5°	1843.7	1761.3	1648.2	1611.1	1604.6	1603.0	1586.8	1593.3	1619.1	1711.2	1764.6
25°	1754.9	1685.4	1567.4	1535.1	1535.1	1531.9	1517.3	1520.6	1536.7	1617.5	1669.2
27.5°	1646.6	1580.4	1481.8	1449.5	1454.3	1459.2	1441.4	1436.5	1449.5	1525.4	1556.1
30°	1522.2	1475.3	1397.8	1368.7	1367.1	1386.4	1362.2	1355.7	1373.5	1433.3	1439.8
32.5°	1401.0	1378.4	1323.4	1300.8	1302.4	1305.6	1292.7	1292.7	1308.9	1341.2	1339.6
35°	1283.0	1268.5	1258.8	1242.6	1241.0	1234.5	1234.5	1237.8	1255.6	1266.9	1245.9
37.5°	1169.9	1184.5	1195.8	1179.6	1166.7	1166.7	1166.7	1181.2	1197.4	1192.5	1157.0
40°	1069.7	1100.4	1136.0	1118.2	1087.5	1085.9	1092.3	1116.6	1140.8	1111.7	1079.4
42.5°	984.1	1022.9	1073.0	1063.3	1029.3	1024.5	1029.3	1060.0	1079.4	1042.3	1006.7
45°	900.1	948.5	1008.3	1008.3	971.2	966.3	967.9	1008.3	1019.6	976.0	930.8
47.5°	829.0	882.3	945.3	945.3	914.6	904.9	913.0	955.0	963.1	901.7	859.7
50°	761.1	819.3	888.7	883.9	862.9	854.8	869.4	914.6	904.9	837.0	793.4
52.5°	675.4	736.9	832.2	837.0	825.7	827.3	845.1	874.2	846.7	764.3	727.2
55°	597.9	660.9	756.2	782.1	782.1	780.5	788.6	811.2	788.6	690.0	644.7
57.5°	513.9	567.2	646.4	652.8	657.7	639.9	651.2	681.9	670.6	586.6	560.7
60°	421.8	467.0	512.2	517.1	496.1	458.9	479.9	515.5	523.6	460.5	431.4
62.5°	298.9	342.6	395.9	395.9	374.9	337.7	365.2	395.9	384.6	319.9	302.2
65°	223.0	263.4	303.8	321.6	303.8	277.9	298.9	321.6	303.8	250.5	224.6
67.5°	143.8	171.3	195.5	210.1	213.3	210.1	219.8	213.3	192.3	156.7	142.2
70°	87.3	101.8	114.7	127.7	137.4	142.2	147.0	132.5	111.5	92.1	87.3
72.5°	63.0	75.9	87.3	97.0	108.3	111.5	111.5	101.8	82.4	64.6	59.8
75°	43.6	54.9	64.6	71.1	80.8	84.0	84.0	75.9	61.4	46.9	42.0
77.5°	1.6	11.3	11.3	9.7	12.9	16.2	16.2	19.4	17.8	12.9	11.3
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°	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	1805.0	1863.1	1879.3	1939.1	1992.4	2045.7	2110.4	2149.1	2207.3	2247.7	2270.3
5°	1627.2	1675.7	1733.9	1822.7	1914.8	2016.6	2139.5	2246.1	2380.2	2478.8	2511.1
7.5°	1497.9	1561.0	1628.8	1740.3	1866.4	2002.1	2175.0	2349.5	2554.7	2688.9	2774.5
10°	1473.7	1538.3	1628.8	1738.7	1871.2	2026.3	2238.0	2464.3	2721.2	2884.4	2981.3
12.5°	1590.0	1659.5	1698.3	1748.4	1848.6	2021.5	2293.0	2580.6	2882.8	3060.5	3163.9
15°	1761.3	1822.7	1759.7	1696.7	1761.3	1969.8	2323.7	2677.5	3025.0	3230.2	3336.8
17.5°	1879.3	1884.1	1746.8	1612.7	1630.4	1876.1	2335.0	2774.5	3176.9	3391.8	3503.3
20°	1868.0	1829.2	1690.2	1541.6	1486.6	1754.9	2322.1	2860.1	3330.4	3555.0	3664.9
22.5°	1780.7	1735.5	1617.5	1472.1	1365.4	1611.1	2299.4	2937.7	3471.0	3726.3	3829.7
25°	1675.7	1627.2	1530.3	1402.6	1287.9	1472.1	2281.7	3044.4	3648.7	3949.3	4030.1
27.5°	1552.9	1510.9	1428.5	1336.4	1255.6	1367.1	2276.8	3184.9	3863.6	4220.7	4277.3
30°	1433.3	1394.5	1329.9	1276.6	1242.6	1305.6	2260.6	3335.2	4120.5	4532.6	4594.0
32.5°	1318.6	1279.8	1239.4	1231.3	1232.9	1283.0	2205.7	3483.9	4426.0	4985.1	5030.3
35°	1220.0	1174.8	1158.6	1178.0	1213.5	1244.2	2050.6	3606.7	4754.0	5477.9	5515.1
37.5°	1126.3	1081.0	1079.4	1126.3	1165.1	1184.5	1868.0	3727.9	5196.7	5978.8	6025.7
40°	1040.6	995.4	1011.6	1068.1	1098.8	1108.5	1646.6	3912.1	5665.4	6507.2	6481.4
42.5°	967.9	921.1	930.8	1003.5	1030.9	1056.8	1443.0	4065.6	6116.2	7008.2	7000.1
45°	896.8	861.3	854.8	934.0	958.2	1061.6	1294.3	4183.6	6696.3	7646.4	7659.4
47.5°	827.3	799.9	801.5	835.4	895.2	1085.9	1168.3	4261.1	7538.2	8658.0	8433.4
50°	764.3	743.3	761.1	722.3	854.8	1055.2	1060.0	4245.0	8478.6	9627.5	9176.7
52.5°	694.8	690.0	698.1	604.3	790.2	930.8	958.2	4030.1	8919.8	10290.1	10033.1
55°	623.7	622.1	557.5	483.2	660.9	743.3	820.9	3362.7	8905.2	10642.3	10954.2
57.5°	539.7	526.8	423.4	394.3	513.9	517.1	748.2	2202.5	7892.1	9798.8	10445.2
60°	408.8	399.1	310.3	319.9	358.7	331.3	596.3	1097.2	5898.0	7633.5	8362.3
62.5°	282.8	269.9	231.1	247.2	231.1	189.1	365.2	542.9	3572.8	4820.2	5481.1
65°	206.8	192.3	158.4	135.7	108.3	108.3	139.0	208.5	1383.2	2049.0	2470.7
67.5°	127.7	121.2	93.7	67.9	66.3	71.1	72.7	103.4	223.0	355.5	434.7
70°	82.4	75.9	63.0	43.6	40.4	42.0	43.6	48.5	56.6	61.4	74.3
72.5°	56.6	53.3	45.2	24.2	19.4	21.0	22.6	22.6	27.5	25.9	30.7
75°	40.4	37.2	32.3	11.3	6.5	8.1	9.7	8.1	9.7	6.5	8.1
77.5°	11.3	11.3	8.1	1.6	0.0	1.6	3.2	3.2	1.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	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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CATALOG NUMBER: GWS-SA4E-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	2328.5	2365.7	2380.2	2359.2	2377.0	2347.9	2336.6	2293.0	2289.7	2281.7
5°	2642.0	2726.0	2776.1	2806.8	2771.3	2732.5	2674.3	2574.1	2543.4	2524.0
7.5°	2950.6	3081.5	3167.2	3207.6	3197.9	3118.7	3013.7	2845.6	2785.8	2756.7
10°	3218.9	3378.9	3482.3	3532.4	3511.4	3441.9	3291.6	3081.5	3002.3	2984.6
12.5°	3406.3	3553.4	3624.5	3668.1	3669.7	3642.2	3500.0	3288.4	3194.6	3172.0
15°	3524.3	3587.3	3588.9	3614.8	3660.0	3721.4	3655.2	3467.7	3367.5	3333.6
17.5°	3598.6	3529.1	3458.0	3464.5	3538.8	3702.0	3769.9	3626.1	3519.4	3482.3
20°	3651.9	3432.2	3299.7	3301.3	3377.2	3624.5	3849.1	3779.6	3669.7	3635.8
22.5°	3685.9	3346.5	3157.5	3152.6	3233.4	3532.4	3921.8	3962.2	3853.9	3815.1
25°	3755.4	3306.1	3071.8	3099.3	3170.4	3503.3	4020.4	4204.6	4104.4	4052.7
27.5°	3879.8	3346.5	3063.8	3126.8	3207.6	3588.9	4191.6	4527.8	4424.3	4366.2
30°	4094.7	3498.4	3188.2	3275.4	3372.4	3813.5	4479.3	4978.6	4829.9	4775.0
32.5°	4440.5	3813.5	3572.8	3760.2	3853.9	4182.0	4910.7	5484.4	5363.2	5253.3
35°	4917.2	4532.6	4505.1	4941.4	4918.8	4880.0	5440.7	6104.9	5922.3	5815.6
37.5°	5573.2	5689.6	5893.2	6326.3	6311.7	6016.0	6137.2	6691.4	6597.7	6460.4
40°	6392.5	6639.7	6985.5	7606.1	7412.1	7040.5	6992.0	7292.6	7216.6	7055.0
42.5°	6875.7	7302.3	7961.5	8519.0	8363.9	7714.3	7659.4	8095.7	7929.2	7753.1
45°	7100.3	7842.0	9134.7	9889.3	9419.1	8161.9	8140.9	9142.8	9049.1	8813.1
47.5°	7203.7	8386.5	10508.2	11650.7	10771.6	8554.6	8478.6	10661.7	10538.9	10261.0
50°	7318.4	9137.9	12162.9	13691.5	12405.3	8999.0	9053.9	12077.3	12025.5	11697.5
52.5°	7570.5	9932.9	14200.5	16024.9	14386.4	9695.4	10041.2	13412.0	13063.0	12684.8
55°	7948.6	10799.1	16320.6	18408.4	16407.9	10631.0	11109.3	14121.4	13142.1	12723.6
57.5°	7530.1	11015.6	17576.2	20072.7	17304.7	10634.3	10206.0	12891.7	11558.5	11153.0
60°	5975.6	10248.1	17093.0	19712.4	16540.4	9443.3	7814.5	10065.5	8756.6	8485.1
62.5°	4039.8	8595.0	15047.3	16671.3	14156.9	7428.3	5078.8	6546.0	5421.4	5196.7
65°	2213.8	6411.9	12158.0	12612.1	11080.2	5188.7	2612.9	2840.8	2163.7	2063.5
67.5°	610.8	4463.1	8945.6	8367.1	7774.1	3378.9	675.4	507.4	362.0	358.7
70°	153.5	2952.3	5359.9	5524.8	4766.9	2163.7	129.3	61.4	48.5	46.9
72.5°	64.6	1270.1	2543.4	2923.2	2440.0	1001.9	46.9	17.8	14.5	11.3
75°	8.1	101.8	216.5	328.0	224.6	108.3	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)