

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: P637658

Luminaire Tested: GWS-SA4D-730-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637658  
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-SA4D-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

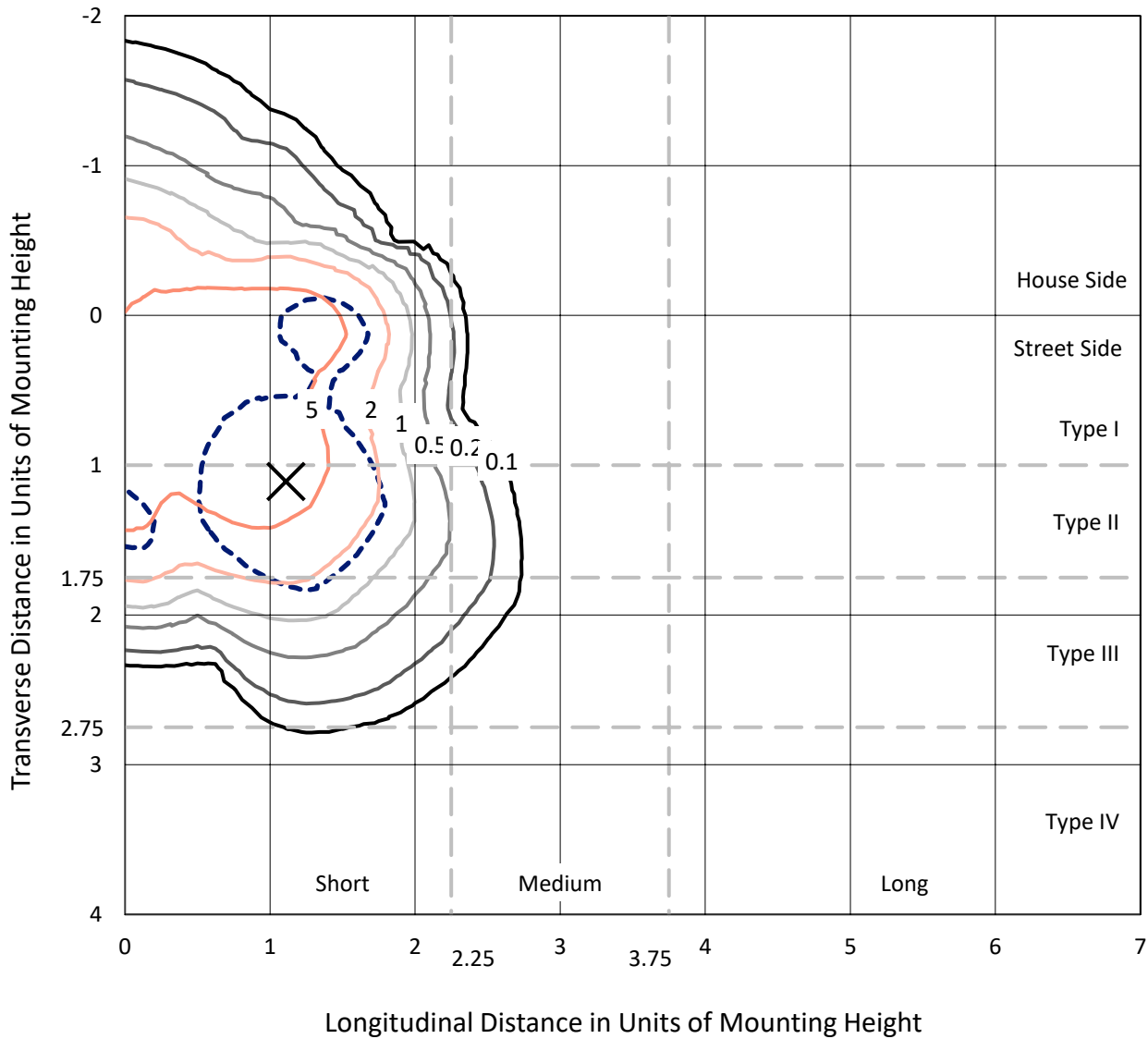
Lumens per Lamp: N/A  
Luminaire Lumens: 11897 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

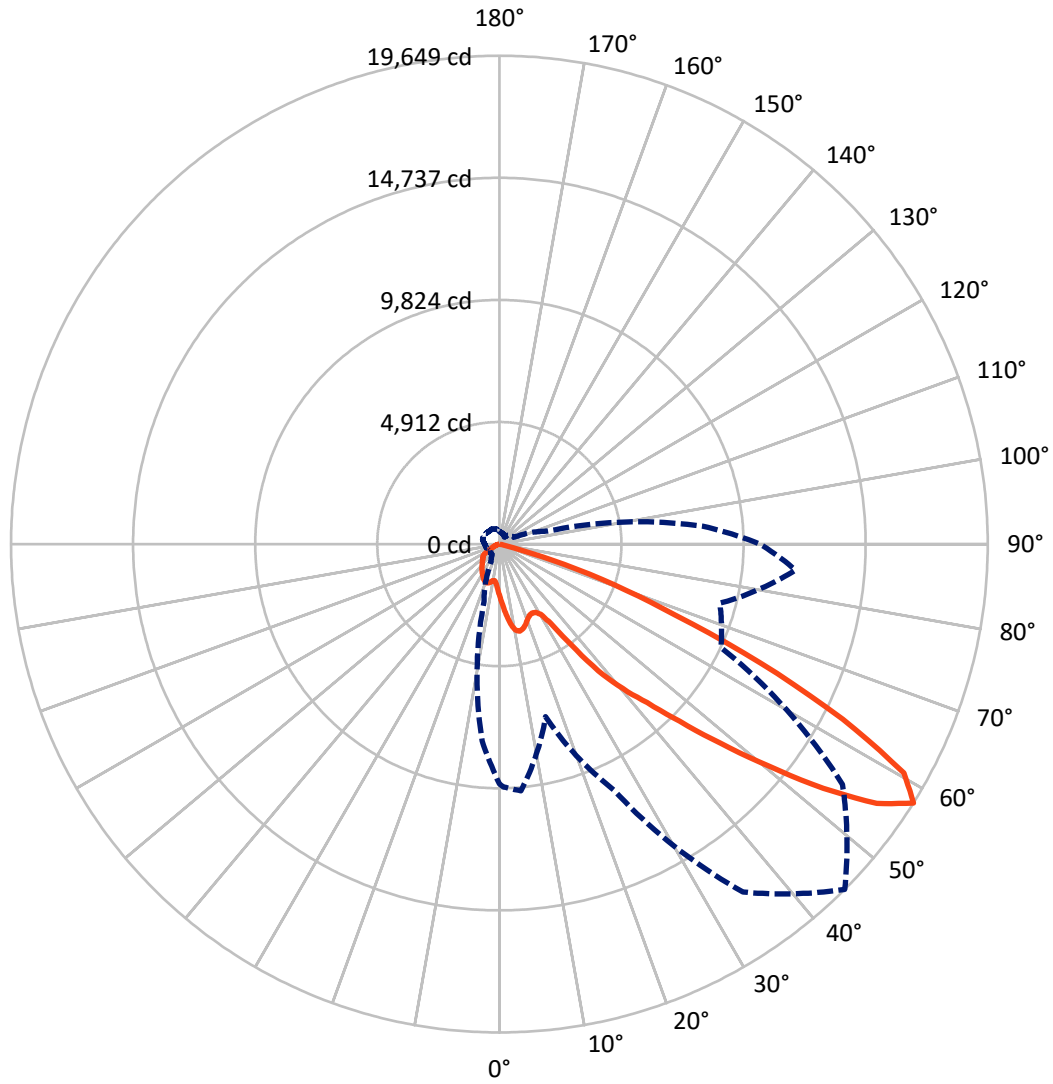
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 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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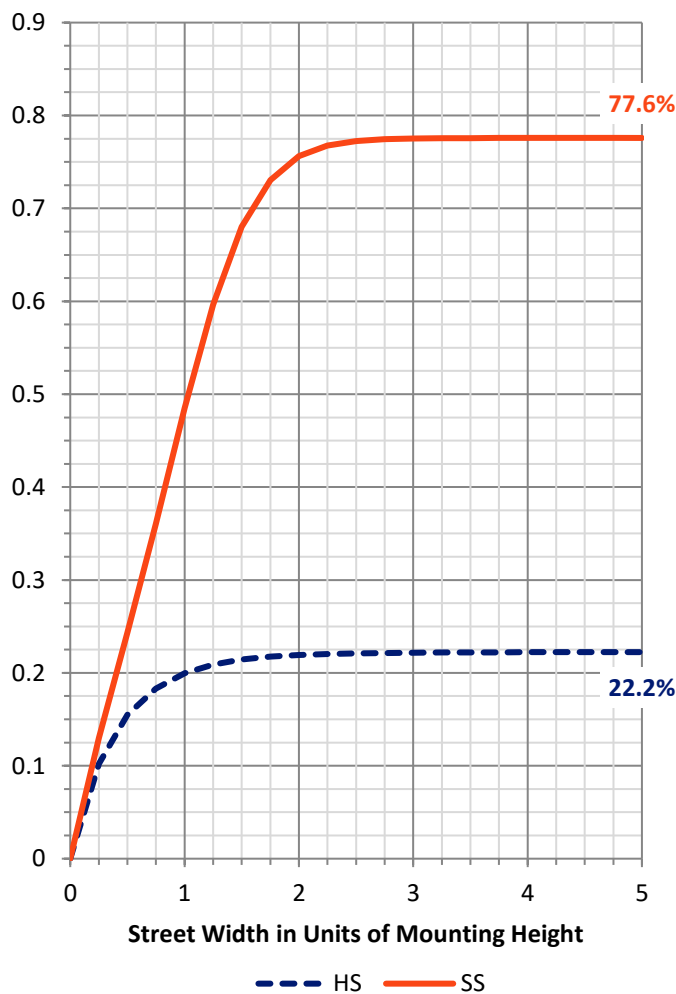
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2664.1	0.0	2664.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9232.9	0.0	9232.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	11897.0	0.0	11897.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	1.7
10°-20°	665.5	5.6
20°-30°	1081.0	9.1
30°-40°	1670.3	14.0
40°-50°	2678.3	22.5
50°-60°	3660.5	30.8
60°-70°	1772.9	14.9
70°-80°	162.3	1.4
80°-90°	0.5	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°	11897.0	100.0
0°-180°	11897.0	100.0

**Coefficient of Utilization**

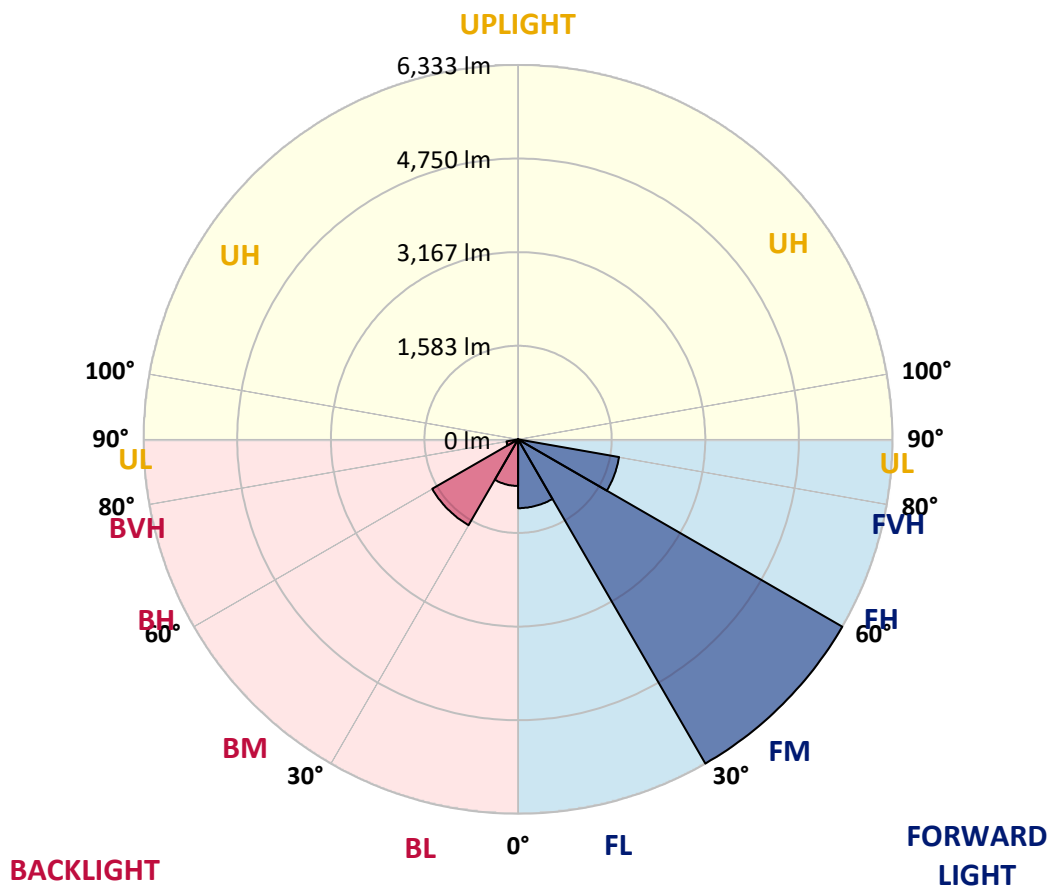


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.9	9.8			
FM (30°-60°)	6333.0	53.2			
FH (60°-80°)	1735.6	14.6			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	788.3	6.6	B2/1000		
BM (30°-60°)	1676.1	14.1	B2/2500		
BH (60°-80°)	199.7	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°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	2265.3	2279.7	2303.6	2354.8	2398.0	2426.7	2439.5	2436.3	2418.7	2406.0	2380.4
5°	2508.3	2508.3	2554.6	2671.3	2760.9	2816.8	2845.6	2828.0	2792.8	2736.9	2650.6
7.5°	2720.9	2728.9	2807.2	2973.5	3109.4	3189.3	3235.7	3226.1	3163.7	3056.6	2884.0
10°	2887.1	2896.7	3000.7	3203.7	3363.5	3445.1	3513.8	3520.2	3451.5	3309.2	3111.0
12.5°	3048.6	3058.2	3166.9	3361.9	3502.6	3536.2	3596.9	3620.9	3603.3	3502.6	3296.4
15°	3222.9	3245.2	3338.0	3483.4	3542.6	3502.6	3542.6	3585.8	3644.9	3635.3	3449.9
17.5°	3393.9	3409.9	3504.2	3555.4	3489.8	3385.9	3405.1	3456.3	3590.6	3721.6	3601.7
20°	3552.2	3574.6	3652.9	3585.8	3387.5	3226.1	3227.7	3294.8	3499.4	3774.4	3756.8
22.5°	3718.4	3752.0	3808.0	3619.3	3293.2	3099.8	3107.8	3168.5	3427.5	3824.0	3932.7
25°	3935.9	3967.8	4004.6	3702.5	3262.8	3037.4	3067.8	3123.7	3427.5	3908.7	4150.1
27.5°	4230.0	4252.4	4254.0	3857.5	3315.6	3047.0	3111.0	3174.9	3529.8	4078.1	4441.0
30°	4599.3	4634.5	4588.1	4098.9	3480.2	3174.9	3269.2	3349.2	3750.4	4364.3	4869.5
32.5°	5048.5	5098.1	5035.7	4457.0	3824.0	3616.1	3787.2	3833.5	4102.1	4778.3	5355.5
35°	5576.1	5617.6	5550.5	4952.6	4626.5	4664.8	4975.0	4915.8	4808.7	5288.3	5923.0
37.5°	6154.8	6193.1	6063.7	5704.0	5812.7	5978.9	6474.5	6271.5	5926.2	5945.4	6538.5
40°	6685.5	6727.1	6524.1	6520.9	6744.7	7048.4	7646.3	7366.5	6896.5	6805.4	7115.6
42.5°	7235.5	7264.2	7080.4	6955.7	7464.1	8089.1	8722.2	8344.9	7539.2	7440.1	7838.1
45°	8020.4	8081.1	7753.4	7169.9	8111.5	9286.5	10169.0	9432.0	7977.2	7897.3	8944.4
47.5°	9174.6	9219.4	8551.1	7304.2	8714.2	10778.1	11977.0	10842.0	8362.5	8180.3	10456.7
50°	10129.0	10159.4	9284.9	7451.3	9355.3	12386.3	14037.7	12514.2	8795.7	8648.7	11868.3
52.5°	10832.4	10947.5	10248.9	7753.4	10197.7	14277.5	16319.0	14494.9	9472.0	9553.5	13038.5
55°	10977.9	11134.6	10907.5	7938.9	10939.5	16203.8	18426.0	16267.8	10146.6	10239.3	13431.8
57.5°	9647.8	9772.5	9961.1	7190.7	10921.9	17086.3	19648.9	16856.1	9839.6	9182.6	11959.5
60°	7227.5	7313.8	7655.9	5496.1	10044.3	16306.2	18696.1	15855.3	8603.9	7006.9	9112.3
62.5°	4286.0	4324.3	4757.6	3560.2	8336.9	14042.5	15505.2	13681.2	6799.0	4712.8	5580.9
65°	1645.0	1629.0	1959.9	1756.9	6130.8	11185.7	11532.6	10429.5	4664.8	2159.8	2127.8
67.5°	254.2	243.0	327.7	519.6	4421.8	7751.8	7609.5	7516.8	2922.3	503.6	439.6
70°	57.6	57.6	70.3	153.5	2701.7	4554.5	4874.3	4647.3	1870.4	107.1	57.6
72.5°	27.2	27.2	33.6	65.5	978.4	1876.8	2186.9	2153.4	607.5	35.2	20.8
75°	9.6	11.2	11.2	14.4	59.1	97.5	223.8	159.9	38.4	0.0	0.0
77.5°	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	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°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	2324.4	2313.2	2271.7	2215.7	2161.4	2113.4	2063.8	2004.7	1961.5	1912.0	1896.0
5°	2583.4	2513.1	2399.6	2281.3	2172.6	2079.8	1990.3	1894.4	1824.1	1753.7	1729.7
7.5°	2802.4	2698.5	2514.7	2337.2	2188.5	2057.5	1928.0	1796.9	1694.6	1611.4	1585.9
10°	2999.1	2879.2	2633.0	2414.0	2226.9	2075.0	1918.4	1753.7	1621.0	1521.9	1497.9
12.5°	3168.5	3029.4	2733.7	2471.5	2242.9	2068.6	1916.8	1785.7	1665.8	1552.3	1521.9
15°	3310.8	3157.3	2818.4	2509.9	2218.9	1988.7	1856.0	1835.2	1825.7	1701.0	1641.8
17.5°	3449.9	3277.2	2887.1	2527.5	2151.8	1848.0	1752.1	1846.4	1947.1	1865.6	1790.5
20°	3595.3	3398.7	2957.5	2530.7	2039.9	1689.8	1673.8	1822.5	1950.3	1924.8	1854.4
22.5°	3766.4	3550.6	3045.4	2529.1	1899.2	1555.5	1616.2	1776.1	1880.0	1878.4	1822.5
25°	4014.2	3742.4	3163.7	2538.6	1745.7	1451.6	1552.3	1697.8	1782.5	1779.3	1732.9
27.5°	4279.6	3971.0	3317.2	2562.6	1614.6	1390.8	1477.1	1590.7	1664.2	1661.0	1621.0
30°	4652.1	4234.8	3464.3	2564.2	1520.3	1358.8	1394.0	1472.4	1542.7	1534.7	1504.3
32.5°	5104.5	4532.2	3587.4	2473.1	1461.2	1328.5	1307.7	1347.7	1402.0	1390.8	1382.8
35°	5651.2	4885.5	3692.9	2273.3	1370.0	1267.7	1211.8	1219.8	1258.1	1264.5	1261.3
37.5°	6274.7	5305.9	3824.0	2009.5	1246.9	1179.8	1104.7	1098.3	1120.6	1141.4	1157.4
40°	6890.2	5779.1	4001.4	1742.5	1135.0	1067.9	996.0	980.0	989.6	1026.3	1059.9
42.5°	7582.4	6327.4	4193.2	1513.9	1058.3	944.8	876.1	845.7	872.9	932.0	972.0
45°	8579.9	7096.4	4380.3	1331.7	1026.3	836.1	743.4	740.2	770.5	847.3	892.0
47.5°	9980.3	8090.7	4503.4	1189.4	1024.7	751.4	641.1	660.2	695.4	770.5	821.7
50°	11345.6	9336.1	4367.5	1080.7	991.2	695.4	564.3	602.7	637.9	703.4	756.2
52.5°	12168.9	10005.9	3838.3	978.4	887.2	669.8	489.2	556.3	562.7	621.9	677.8
55°	12082.5	9572.7	2939.9	820.1	733.8	633.1	410.9	502.0	505.2	549.9	597.9
57.5°	10487.1	8218.6	2019.1	665.0	551.5	522.8	338.9	423.6	454.0	481.2	516.4
60°	7815.8	5996.5	900.0	540.3	350.1	353.3	289.4	319.7	366.1	398.1	428.4
62.5°	4605.7	3449.9	366.1	324.5	193.4	222.2	233.4	233.4	262.2	286.2	305.3
65°	1740.9	1207.0	148.7	163.1	100.7	103.9	137.5	169.5	191.8	212.6	238.2
67.5°	305.3	211.0	76.7	60.7	59.1	52.8	70.3	110.3	123.1	139.1	150.3
70°	51.2	43.2	32.0	30.4	27.2	28.8	46.4	78.3	86.3	91.1	95.9
72.5°	14.4	12.8	9.6	8.0	6.4	8.0	28.8	60.7	63.9	67.1	71.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	11.2	43.2	46.4	48.0	52.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	12.8	16.0	12.8
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°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	1886.4	1854.4	1836.8	1827.2	1827.2	1814.5	1800.1	1795.3	1816.1	1816.1	1851.2
5°	1699.4	1673.8	1645.0	1627.4	1600.2	1605.0	1589.1	1587.5	1608.2	1617.8	1654.6
7.5°	1569.9	1537.9	1520.3	1509.1	1494.7	1488.3	1473.9	1469.2	1480.3	1496.3	1531.5
10°	1483.5	1478.7	1477.1	1485.1	1485.1	1477.1	1464.4	1456.4	1459.6	1489.9	1529.9
12.5°	1505.9	1515.5	1518.7	1531.5	1537.9	1531.5	1521.9	1525.1	1545.9	1601.8	1661.0
15°	1603.4	1595.4	1592.2	1598.6	1603.4	1597.0	1593.8	1617.8	1689.8	1769.7	1836.8
17.5°	1707.4	1656.2	1633.8	1633.8	1637.0	1633.8	1637.0	1683.4	1800.1	1880.0	1929.6
20°	1760.1	1665.8	1630.6	1622.6	1629.0	1630.6	1641.8	1694.6	1822.5	1878.4	1889.6
22.5°	1744.1	1625.8	1585.9	1579.5	1585.9	1592.2	1603.4	1648.2	1768.1	1796.9	1792.1
25°	1664.2	1547.5	1515.5	1515.5	1529.9	1528.3	1533.1	1565.1	1664.2	1681.8	1673.8
27.5°	1563.5	1453.2	1426.0	1442.0	1454.8	1451.6	1453.2	1480.3	1553.9	1558.7	1550.7
30°	1461.2	1365.2	1339.7	1358.8	1376.4	1373.2	1374.8	1402.0	1448.4	1443.6	1432.4
32.5°	1357.2	1286.9	1267.7	1278.9	1306.1	1302.9	1309.3	1338.1	1355.6	1334.9	1322.1
35°	1261.3	1224.6	1210.2	1216.6	1237.3	1242.1	1253.3	1272.5	1272.5	1246.9	1224.6
37.5°	1171.8	1167.0	1157.4	1149.4	1168.6	1183.0	1199.0	1221.4	1189.4	1152.6	1131.8
40°	1088.7	1109.5	1096.7	1075.9	1087.1	1107.9	1139.8	1157.4	1119.1	1082.3	1047.1
42.5°	1011.9	1047.1	1042.3	1016.7	1026.3	1045.5	1082.3	1096.7	1051.9	1010.3	976.8
45°	938.4	988.0	991.2	959.2	968.8	988.0	1031.1	1035.9	978.4	933.6	909.6
47.5°	874.5	928.8	930.4	906.4	909.6	936.8	976.8	978.4	912.8	871.3	840.9
50°	813.7	876.1	880.9	860.1	863.3	895.2	928.8	922.4	852.1	808.9	781.7
52.5°	740.2	824.9	836.1	826.5	839.3	864.9	885.6	863.3	781.7	738.6	714.6
55°	660.2	770.5	794.5	788.1	802.5	823.3	828.1	813.7	711.4	668.2	645.9
57.5°	567.5	634.7	676.2	663.4	674.6	695.4	709.8	698.6	621.9	588.3	569.1
60°	470.0	514.8	524.4	503.6	494.0	530.7	564.3	549.9	484.4	463.6	441.2
62.5°	343.7	394.9	401.3	374.1	362.9	402.9	431.6	417.2	345.3	322.9	305.3
65°	275.0	322.9	335.7	310.1	303.7	334.1	351.7	316.5	265.4	241.4	222.2
67.5°	180.6	219.0	252.6	251.0	238.2	247.8	235.0	206.2	169.5	156.7	143.9
70°	111.9	134.3	155.1	163.1	161.5	158.3	140.7	119.9	108.7	103.9	97.5
72.5°	86.3	108.7	124.7	129.5	131.1	126.3	111.9	92.7	81.5	75.1	70.3
75°	63.9	81.5	94.3	100.7	103.9	100.7	86.3	73.5	62.3	57.6	52.8
77.5°	22.4	27.2	33.6	36.8	35.2	33.6	30.4	30.4	24.0	22.4	19.2
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: P637658

CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	1891.2	1920.0	1972.7	2020.7	2071.8	2124.6	2182.1	2241.3	2268.5	2265.3
5°	1710.5	1772.9	1859.2	1953.5	2059.1	2172.6	2298.8	2428.3	2484.3	2508.3
7.5°	1597.0	1685.0	1798.5	1918.4	2057.5	2218.9	2409.2	2612.2	2693.7	2720.9
10°	1611.4	1713.7	1808.1	1924.8	2073.4	2282.9	2519.5	2760.9	2856.8	2887.1
12.5°	1728.1	1750.5	1776.1	1872.0	2059.1	2330.8	2620.2	2907.9	3018.2	3048.6
15°	1833.6	1729.7	1681.8	1769.7	2007.9	2364.4	2722.5	3066.2	3187.7	3222.9
17.5°	1838.4	1681.8	1574.7	1643.4	1924.8	2378.8	2823.2	3227.7	3360.3	3393.9
20°	1779.3	1629.0	1491.5	1493.1	1811.3	2375.6	2906.3	3373.1	3521.8	3552.2
22.5°	1693.0	1566.7	1424.4	1374.8	1689.8	2369.2	2997.5	3528.2	3689.7	3718.4
25°	1597.0	1486.7	1360.4	1285.3	1568.3	2375.6	3125.3	3731.2	3908.7	3935.9
27.5°	1493.1	1398.8	1310.9	1250.1	1466.0	2399.6	3278.8	3990.2	4201.2	4230.0
30°	1384.4	1314.1	1278.9	1242.1	1402.0	2406.0	3445.1	4292.4	4559.3	4599.3
32.5°	1277.3	1238.9	1240.5	1246.9	1341.3	2361.2	3596.9	4628.1	4984.6	5048.5
35°	1178.2	1167.0	1199.0	1231.0	1253.3	2246.1	3729.6	5024.5	5510.5	5576.1
37.5°	1093.5	1103.1	1143.0	1175.0	1157.4	2083.0	3905.5	5520.1	6098.8	6154.8
40°	1011.9	1035.9	1082.3	1096.7	1083.9	1892.8	4116.5	5998.1	6608.8	6685.5
42.5°	936.8	954.4	1019.9	1023.1	1063.1	1699.4	4319.5	6512.9	7195.5	7235.5
45°	876.1	872.9	940.0	960.8	1090.3	1485.1	4517.8	7198.7	7962.8	8020.4
47.5°	816.9	813.7	829.7	924.0	1101.5	1286.9	4714.4	8202.6	9075.5	9174.6
50°	761.0	765.8	716.2	906.4	1040.7	1135.0	4803.9	9131.5	10087.4	10129.0
52.5°	711.4	693.8	607.5	848.9	911.2	991.2	4549.7	9553.5	10714.1	10832.4
55°	641.1	543.5	500.4	689.0	719.4	864.9	3726.4	9308.9	10768.5	10977.9
57.5°	548.3	426.8	425.2	508.4	508.4	802.5	2386.8	7953.3	9280.1	9647.8
60°	422.0	330.9	351.7	353.3	326.1	585.1	1339.7	5761.5	6861.4	7227.5
62.5°	300.5	252.6	265.4	211.0	187.0	292.6	642.7	3317.2	4234.8	4286.0
65°	201.4	171.1	139.1	116.7	115.1	124.7	265.4	1199.0	1458.0	1645.0
67.5°	132.7	103.9	73.5	73.5	83.1	83.1	100.7	198.2	278.2	254.2
70°	86.3	71.9	46.4	44.8	54.4	54.4	51.2	54.4	57.6	57.6
72.5°	63.9	54.4	27.2	24.0	30.4	32.0	28.8	27.2	27.2	27.2
75°	48.0	38.4	16.0	11.2	14.4	19.2	16.0	11.2	11.2	9.6
77.5°	19.2	14.4	6.4	4.8	8.0	11.2	9.6	4.8	3.2	3.2
80°	1.6	3.2	3.2	3.2	4.8	6.4	8.0	3.2	1.6	1.6
82.5°	0.0	1.6	1.6	1.6	3.2	4.8	6.4	3.2	1.6	1.6
85°	0.0	0.0	0.0	0.0	3.2	4.8	3.2	1.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.6	4.8	3.2	1.6	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)