

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: P631627

Luminaire Tested: GWS-SA2B-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

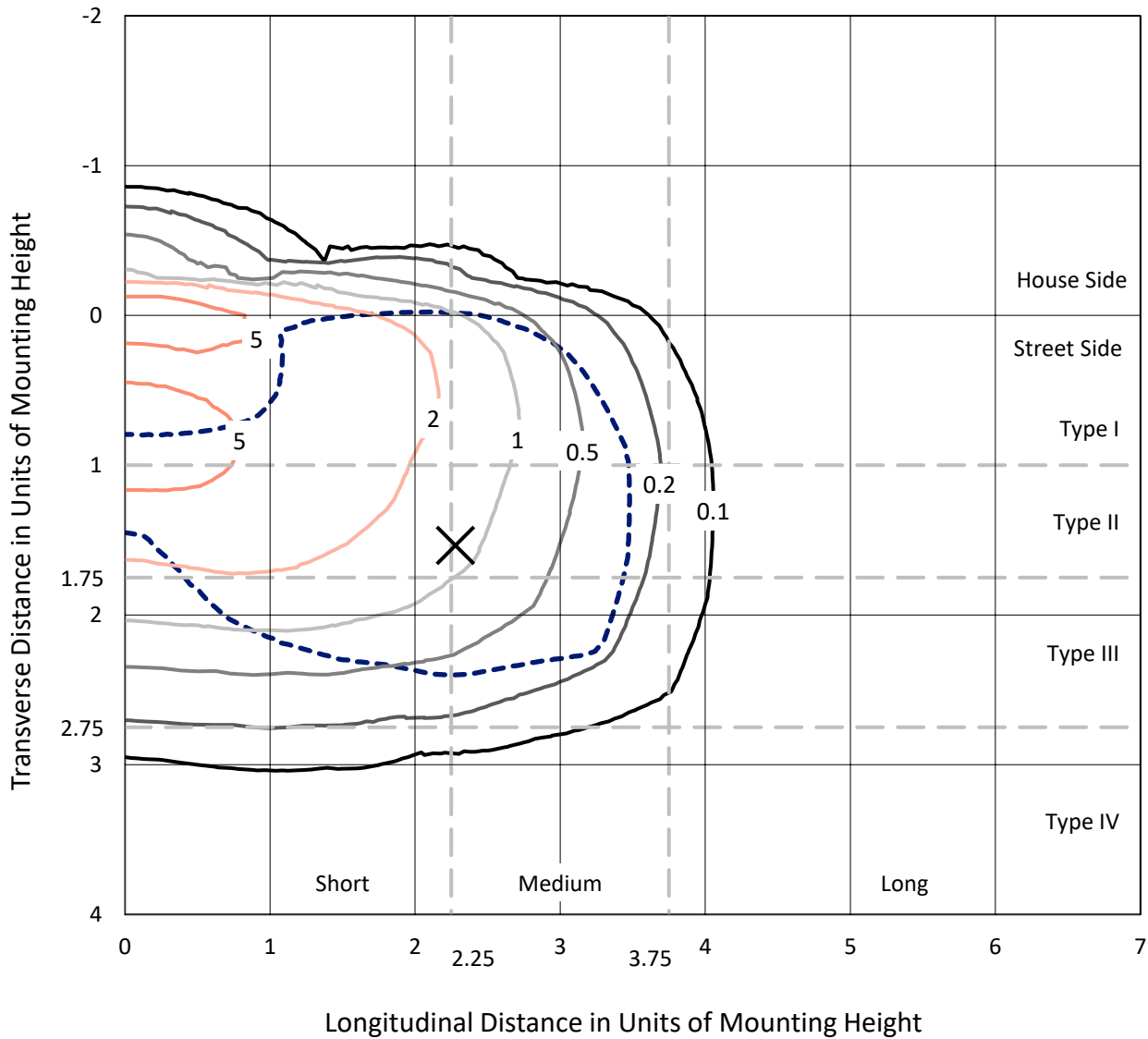
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631627
 CATALOG NUMBER: GWS-SA2B-722-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

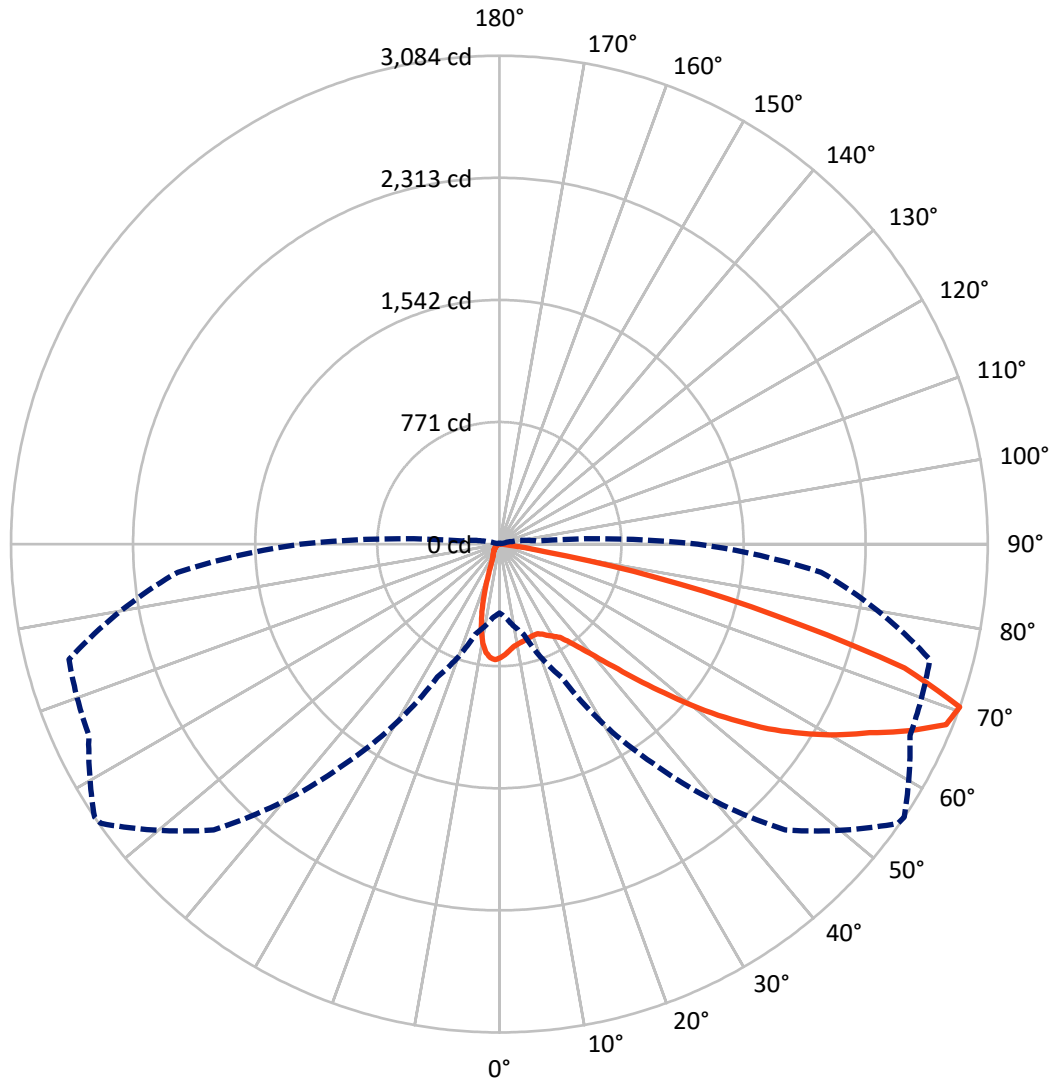
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P631627
CATALOG NUMBER: GWS-SA2B-722-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GWS-SA2B-722-U-T3R-W-HSS

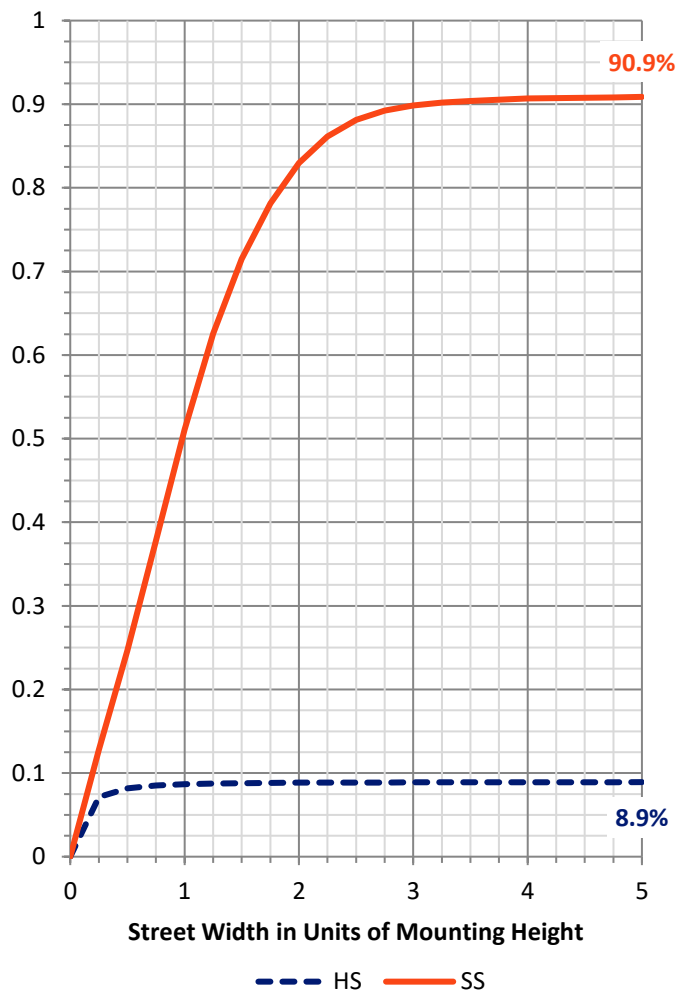
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 357.4 | 0.0 | 357.4 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 3622.0 | 0.0 | 3622.0 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 3979.4 | 0.0 | 3979.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.6 | 1.5 |
| 10°-20° | 138.6 | 3.5 |
| 20°-30° | 219.5 | 5.5 |
| 30°-40° | 378.5 | 9.5 |
| 40°-50° | 639.1 | 16.1 |
| 50°-60° | 939.1 | 23.6 |
| 60°-70° | 1113.3 | 28.0 |
| 70°-80° | 474.8 | 11.9 |
| 80°-90° | 14.9 | 0.4 |
| 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° | 3979.4 | 100.0 |
| 0°-180° | 3979.4 | 100.0 |

Coefficient of Utilization



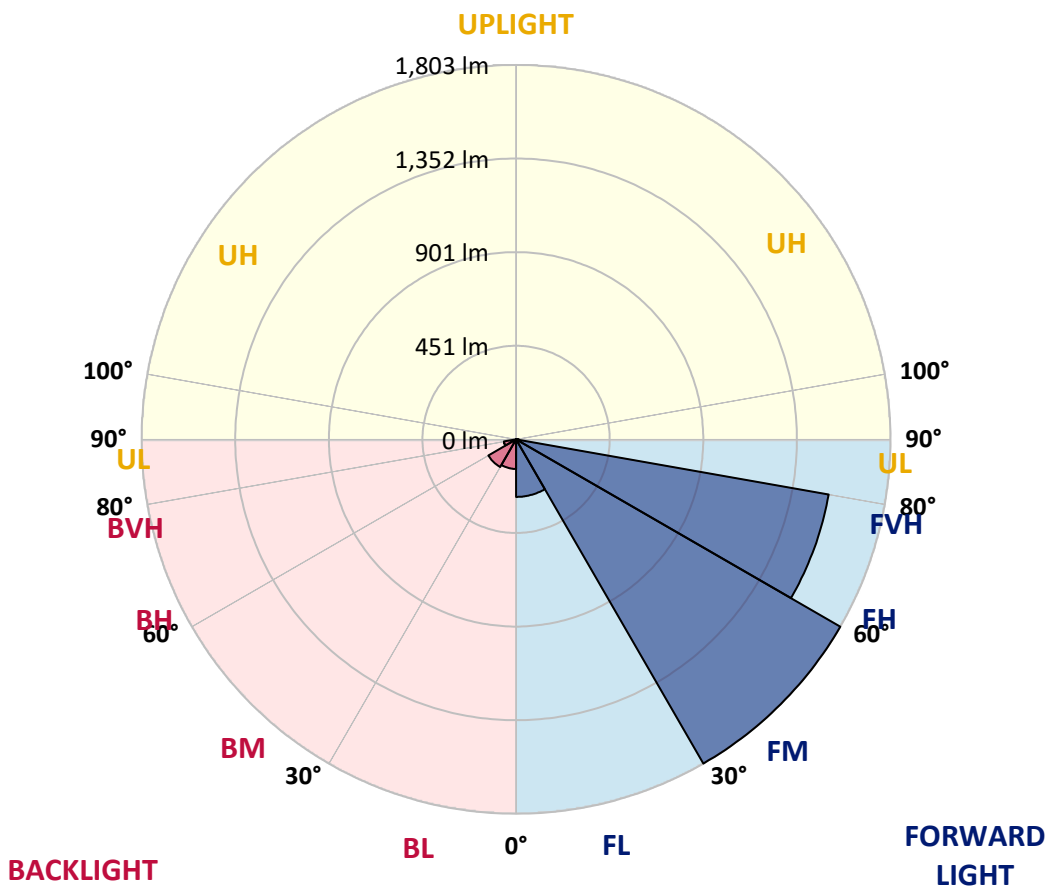
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CATALOG NUMBER: GWS-SA2B-722-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 277.3 | 7.0 | | | |
| FM (30°-60°) | 1802.8 | 45.3 | | | |
| FH (60°-80°) | 1528.5 | 38.4 | | | G1/1800 |
| FVH (80°-90°) | 13.4 | 0.3 | | | G1/100 |
| BL (0°-30°) | 142.4 | 3.6 | B1/500 | | |
| BM (30°-60°) | 153.9 | 3.9 | B0/220 | | |
| BH (60°-80°) | 59.6 | 1.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Medium





REPORT NUMBER: P631627

CATALOG NUMBER: GWS-SA2B-722-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 |
| 2.5° | 668.0 | 666.9 | 667.6 | 673.1 | 683.3 | 688.0 | 696.0 | 697.5 | 704.0 | 712.4 | 715.7 |
| 5° | 624.6 | 621.0 | 622.8 | 630.4 | 642.1 | 655.2 | 670.2 | 674.2 | 690.6 | 709.1 | 723.0 |
| 7.5° | 584.9 | 580.9 | 585.2 | 597.3 | 613.7 | 627.9 | 650.1 | 652.7 | 678.9 | 711.7 | 736.8 |
| 10° | 522.6 | 523.7 | 532.4 | 553.5 | 578.7 | 608.2 | 638.1 | 641.7 | 674.2 | 720.1 | 759.1 |
| 12.5° | 474.8 | 472.3 | 481.8 | 505.8 | 541.2 | 584.2 | 629.0 | 633.7 | 674.5 | 732.8 | 787.5 |
| 15° | 452.6 | 451.9 | 455.9 | 473.4 | 507.6 | 558.3 | 620.6 | 626.8 | 679.3 | 744.5 | 814.5 |
| 17.5° | 453.3 | 452.2 | 451.9 | 462.1 | 487.6 | 539.0 | 611.5 | 619.5 | 683.3 | 757.2 | 842.9 |
| 20° | 485.0 | 479.9 | 470.8 | 466.1 | 481.4 | 526.6 | 605.3 | 614.4 | 689.1 | 770.7 | 873.1 |
| 22.5° | 551.4 | 553.2 | 528.8 | 503.3 | 496.0 | 528.0 | 604.6 | 615.1 | 701.9 | 791.9 | 910.3 |
| 25° | 684.0 | 681.1 | 635.9 | 578.7 | 539.0 | 544.8 | 617.3 | 630.1 | 727.0 | 822.1 | 945.3 |
| 27.5° | 850.2 | 852.7 | 790.8 | 699.7 | 616.6 | 579.4 | 640.6 | 653.4 | 756.2 | 841.1 | 968.6 |
| 30° | 1031.3 | 1028.7 | 962.4 | 861.5 | 726.6 | 637.0 | 664.0 | 675.3 | 770.7 | 851.3 | 992.7 |
| 32.5° | 1202.6 | 1196.7 | 1131.1 | 1025.5 | 866.9 | 727.7 | 696.0 | 702.6 | 790.0 | 873.5 | 1025.1 |
| 35° | 1348.7 | 1348.3 | 1291.1 | 1178.5 | 1011.2 | 841.4 | 751.1 | 756.5 | 826.1 | 908.8 | 1072.8 |
| 37.5° | 1499.6 | 1494.5 | 1430.3 | 1327.6 | 1159.6 | 966.1 | 835.2 | 833.0 | 883.0 | 961.0 | 1131.5 |
| 40° | 1623.5 | 1620.2 | 1571.0 | 1472.2 | 1313.7 | 1103.8 | 937.3 | 930.7 | 950.4 | 1033.1 | 1213.1 |
| 42.5° | 1715.3 | 1715.6 | 1700.3 | 1640.2 | 1477.0 | 1263.0 | 1065.5 | 1055.3 | 1055.0 | 1142.1 | 1321.0 |
| 45° | 1784.9 | 1789.6 | 1812.6 | 1803.5 | 1669.7 | 1448.5 | 1229.9 | 1219.3 | 1201.5 | 1283.5 | 1444.5 |
| 47.5° | 1817.3 | 1823.5 | 1892.8 | 1929.2 | 1838.5 | 1632.6 | 1425.6 | 1403.3 | 1368.4 | 1471.5 | 1582.6 |
| 50° | 1814.0 | 1825.0 | 1921.5 | 2032.3 | 1991.5 | 1819.1 | 1638.8 | 1628.2 | 1571.0 | 1670.5 | 1719.3 |
| 52.5° | 1739.7 | 1763.0 | 1923.4 | 2095.0 | 2109.2 | 1991.1 | 1859.2 | 1839.5 | 1811.9 | 1878.2 | 1847.6 |
| 55° | 1537.8 | 1566.2 | 1846.5 | 2115.0 | 2201.0 | 2141.3 | 2075.0 | 2058.9 | 2013.0 | 2074.2 | 1959.4 |
| 57.5° | 1428.1 | 1452.5 | 1684.7 | 2105.2 | 2279.0 | 2280.1 | 2267.0 | 2253.9 | 2216.0 | 2268.1 | 2090.6 |
| 60° | 1362.2 | 1386.6 | 1598.3 | 2069.1 | 2349.7 | 2426.6 | 2447.4 | 2445.9 | 2391.3 | 2488.6 | 2244.4 |
| 62.5° | 1265.6 | 1299.1 | 1508.3 | 1975.5 | 2400.0 | 2570.9 | 2633.6 | 2623.8 | 2562.9 | 2718.1 | 2396.7 |
| 65° | 1070.6 | 1099.8 | 1323.9 | 1821.0 | 2370.5 | 2690.4 | 2835.5 | 2840.6 | 2770.3 | 2934.2 | 2517.0 |
| 67.5° | 750.7 | 772.2 | 994.8 | 1496.6 | 2170.1 | 2729.8 | 3042.1 | 3041.7 | 2921.8 | 3045.0 | 2463.8 |
| 70° | 435.1 | 464.6 | 587.8 | 925.2 | 1688.3 | 2550.9 | 3073.1 | 3083.6 | 2860.3 | 2813.6 | 2038.9 |
| 72.5° | 168.4 | 192.8 | 333.1 | 491.6 | 880.4 | 1954.0 | 2643.4 | 2674.4 | 2393.8 | 2170.4 | 1419.0 |
| 75° | 50.3 | 56.1 | 156.7 | 261.6 | 353.5 | 943.8 | 1789.6 | 1798.4 | 1642.0 | 1353.8 | 727.4 |
| 77.5° | 37.5 | 41.5 | 68.5 | 132.3 | 123.9 | 286.1 | 926.0 | 1011.2 | 871.7 | 483.6 | 200.4 |
| 80° | 25.5 | 30.2 | 48.8 | 64.5 | 45.9 | 76.2 | 260.2 | 285.7 | 266.0 | 108.6 | 50.3 |
| 82.5° | 11.3 | 14.6 | 34.6 | 32.4 | 16.8 | 21.9 | 80.2 | 85.3 | 55.0 | 32.8 | 17.5 |
| 85° | 1.1 | 1.5 | 13.1 | 14.2 | 6.2 | 5.1 | 16.8 | 16.8 | 12.0 | 11.3 | 7.3 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.7 | 0.7 | 1.1 | 1.5 | 1.8 | 2.2 | 2.9 | 3.6 |
| 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-SA2B-722-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 | 717.5 |
| 2.5° | 724.1 | 719.7 | 725.2 | 729.6 | 730.6 | 722.6 | 717.9 | 711.0 | 709.5 | 709.9 | 708.1 |
| 5° | 733.9 | 731.7 | 735.7 | 731.0 | 718.6 | 695.3 | 675.3 | 653.0 | 641.0 | 634.1 | 633.3 |
| 7.5° | 752.1 | 751.1 | 746.7 | 725.2 | 686.6 | 634.8 | 584.9 | 536.0 | 505.8 | 494.9 | 493.0 |
| 10° | 779.1 | 776.9 | 759.1 | 708.1 | 625.7 | 526.2 | 442.4 | 372.4 | 329.8 | 317.4 | 302.1 |
| 12.5° | 810.1 | 805.7 | 766.7 | 671.2 | 533.9 | 396.1 | 291.5 | 213.2 | 176.4 | 165.4 | 165.4 |
| 15° | 840.0 | 830.5 | 762.3 | 610.4 | 420.9 | 257.6 | 162.9 | 123.2 | 111.9 | 109.0 | 109.0 |
| 17.5° | 870.6 | 852.4 | 745.2 | 527.3 | 290.8 | 152.3 | 108.6 | 100.9 | 99.5 | 99.8 | 100.2 |
| 20° | 899.4 | 870.9 | 715.0 | 427.5 | 185.5 | 106.4 | 97.3 | 95.5 | 94.7 | 95.5 | 95.1 |
| 22.5° | 930.7 | 888.1 | 669.1 | 318.5 | 120.6 | 95.8 | 92.6 | 91.1 | 90.4 | 91.5 | 91.5 |
| 25° | 961.7 | 900.5 | 608.2 | 214.3 | 95.8 | 89.3 | 87.5 | 86.0 | 85.3 | 85.6 | 85.6 |
| 27.5° | 977.7 | 895.7 | 528.4 | 136.7 | 86.0 | 82.7 | 80.9 | 79.1 | 78.0 | 77.6 | 78.0 |
| 30° | 988.6 | 881.1 | 430.7 | 97.3 | 78.0 | 74.0 | 72.2 | 70.7 | 67.8 | 66.0 | 66.7 |
| 32.5° | 1005.8 | 866.6 | 324.7 | 81.6 | 71.4 | 65.2 | 62.3 | 58.7 | 54.7 | 52.8 | 52.8 |
| 35° | 1026.2 | 846.5 | 227.8 | 73.6 | 64.5 | 57.9 | 52.5 | 46.3 | 41.5 | 40.1 | 40.1 |
| 37.5° | 1053.1 | 827.6 | 151.6 | 68.1 | 58.7 | 51.7 | 44.1 | 36.8 | 31.7 | 31.0 | 30.6 |
| 40° | 1093.6 | 811.5 | 106.8 | 64.1 | 53.6 | 45.2 | 36.1 | 28.4 | 24.8 | 23.7 | 23.7 |
| 42.5° | 1146.1 | 795.1 | 84.5 | 60.1 | 49.2 | 39.0 | 28.8 | 22.6 | 19.7 | 18.9 | 18.6 |
| 45° | 1210.9 | 775.8 | 73.6 | 56.5 | 44.8 | 32.4 | 23.0 | 18.9 | 16.8 | 16.0 | 16.0 |
| 47.5° | 1281.3 | 749.6 | 68.5 | 51.7 | 39.7 | 26.2 | 19.3 | 16.4 | 15.3 | 14.9 | 14.6 |
| 50° | 1350.5 | 714.2 | 64.1 | 47.4 | 33.9 | 21.5 | 16.8 | 14.9 | 14.2 | 13.8 | 13.8 |
| 52.5° | 1411.0 | 673.1 | 58.7 | 42.3 | 27.7 | 18.6 | 14.9 | 13.8 | 13.1 | 12.4 | 12.0 |
| 55° | 1462.7 | 628.2 | 51.7 | 36.4 | 22.6 | 16.4 | 13.8 | 12.8 | 12.0 | 11.3 | 10.9 |
| 57.5° | 1529.4 | 602.7 | 41.5 | 29.5 | 18.6 | 14.6 | 12.8 | 11.7 | 10.9 | 9.8 | 9.8 |
| 60° | 1603.4 | 584.2 | 31.0 | 23.3 | 16.0 | 13.5 | 11.7 | 10.6 | 9.8 | 8.7 | 8.7 |
| 62.5° | 1662.8 | 556.5 | 24.4 | 18.9 | 13.8 | 12.0 | 10.6 | 9.5 | 8.7 | 7.7 | 7.7 |
| 65° | 1685.4 | 499.2 | 20.0 | 14.9 | 11.3 | 10.6 | 9.5 | 8.7 | 7.7 | 6.6 | 6.6 |
| 67.5° | 1583.4 | 384.8 | 16.8 | 12.0 | 9.5 | 9.1 | 8.4 | 8.0 | 6.6 | 5.8 | 5.5 |
| 70° | 1253.9 | 234.7 | 13.8 | 9.8 | 8.0 | 7.7 | 7.7 | 6.9 | 5.8 | 5.5 | 5.1 |
| 72.5° | 859.3 | 121.0 | 11.3 | 8.0 | 6.9 | 6.9 | 6.6 | 6.2 | 5.5 | 5.1 | 5.1 |
| 75° | 446.4 | 40.4 | 8.7 | 6.2 | 5.5 | 5.8 | 5.8 | 5.5 | 5.1 | 5.1 | 4.7 |
| 77.5° | 127.9 | 18.2 | 6.6 | 4.7 | 4.4 | 4.4 | 4.7 | 4.7 | 4.7 | 4.4 | 4.4 |
| 80° | 33.2 | 10.6 | 4.7 | 3.6 | 3.6 | 3.6 | 3.6 | 4.0 | 4.4 | 4.0 | 4.0 |
| 82.5° | 13.5 | 5.8 | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 | 3.3 | 3.6 | 3.6 | 3.6 |
| 85° | 8.4 | 2.9 | 2.6 | 2.6 | 2.6 | 2.2 | 2.2 | 2.6 | 2.6 | 2.9 | 2.9 |
| 87.5° | 5.1 | 2.2 | 2.2 | 2.2 | 2.2 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)