

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: P639038

Luminaire Tested: GWS-SA5B-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7768.8 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

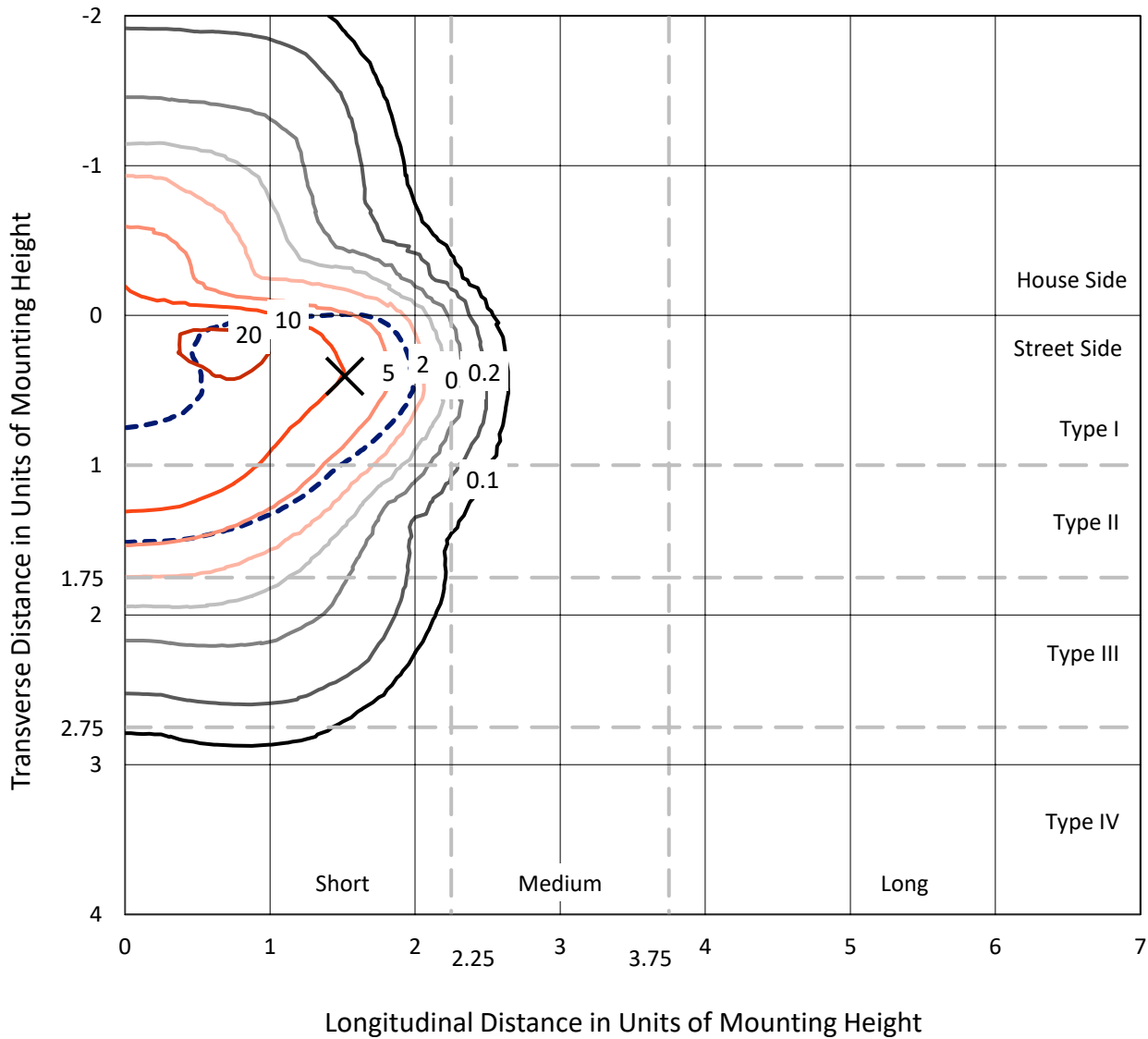
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639038
 CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

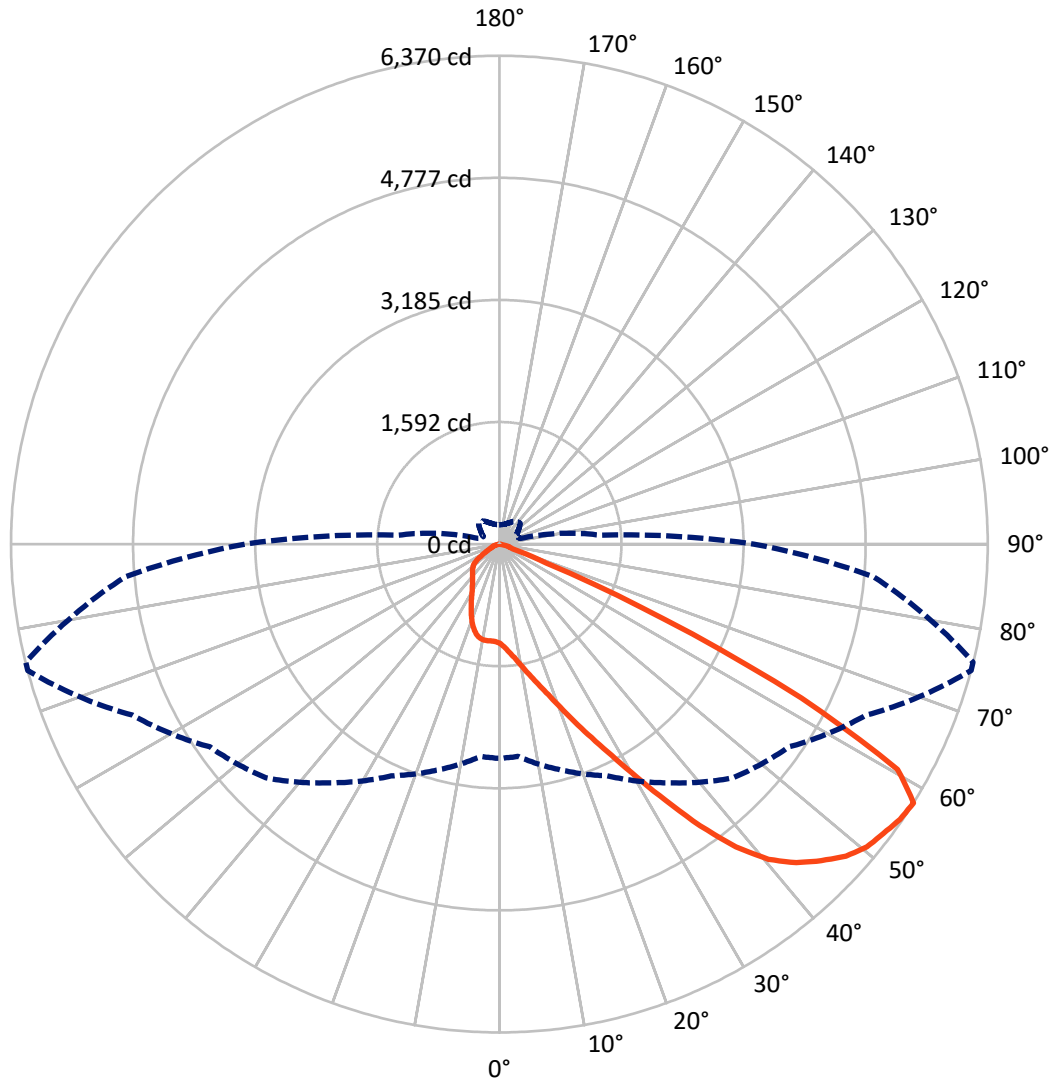
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.2 fc
 Type II - Short - N/A

REPORT NUMBER: P639038
CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639038

CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

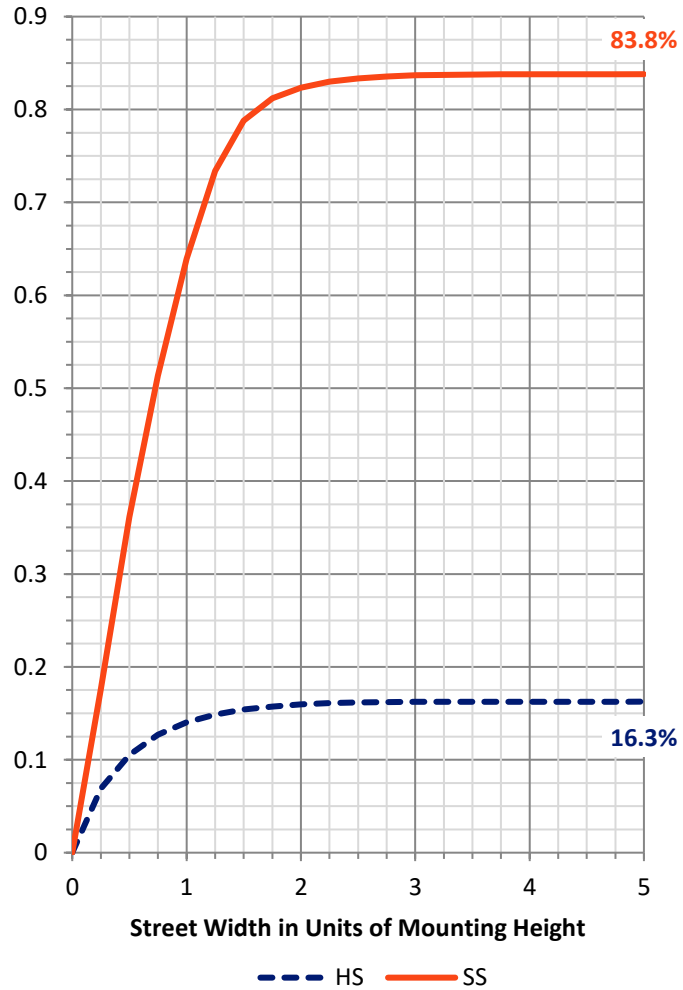
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1269.0 | 0.0 | 1269.0 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 6499.8 | 0.0 | 6499.8 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 7768.8 | 0.0 | 7768.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.8 | 1.7 |
| 10°-20° | 428.3 | 5.5 |
| 20°-30° | 784.3 | 10.1 |
| 30°-40° | 1301.3 | 16.8 |
| 40°-50° | 1987.4 | 25.6 |
| 50°-60° | 2233.2 | 28.7 |
| 60°-70° | 823.7 | 10.6 |
| 70°-80° | 78.7 | 1.0 |
| 80°-90° | 0.1 | 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° | 7768.8 | 100.0 |
| 0°-180° | 7768.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P639038

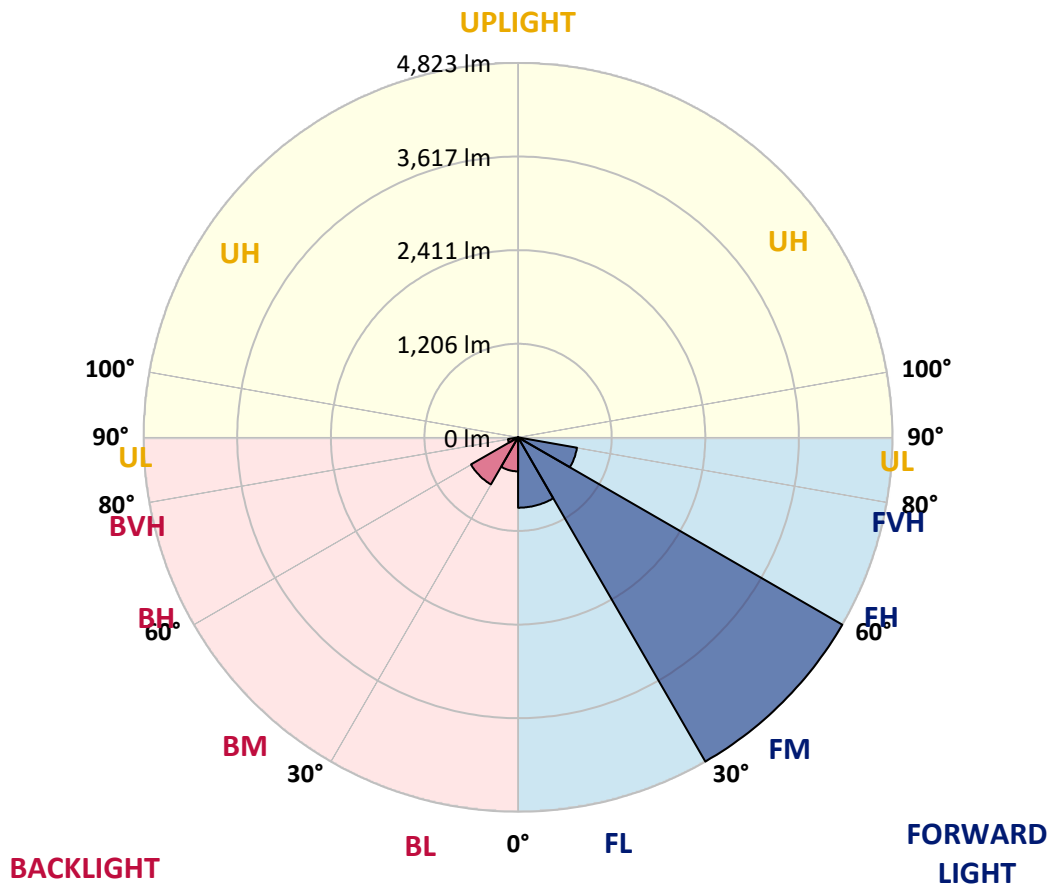
CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 906.6 | 11.7 | | | |
| FM (30°-60°) | 4822.5 | 62.1 | | | |
| FH (60°-80°) | 770.6 | 9.9 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 437.9 | 5.6 | B1/500 | | |
| BM (30°-60°) | 699.3 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 131.8 | 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: B1-U0-G1

Type II Short





REPORT NUMBER: P639038

CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 |
| 2.5° | 1447.6 | 1462.6 | 1457.9 | 1448.6 | 1442.9 | 1423.2 | 1411.0 | 1375.4 | 1350.1 | 1347.3 | 1323.9 |
| 5° | 1630.4 | 1627.6 | 1623.9 | 1612.6 | 1603.3 | 1572.3 | 1535.7 | 1475.7 | 1422.3 | 1415.7 | 1366.0 |
| 7.5° | 1730.8 | 1732.6 | 1734.5 | 1732.6 | 1726.1 | 1702.6 | 1662.3 | 1592.0 | 1510.4 | 1504.8 | 1426.1 |
| 10° | 1772.0 | 1775.8 | 1785.1 | 1803.0 | 1818.9 | 1817.0 | 1793.6 | 1721.4 | 1621.1 | 1611.7 | 1505.7 |
| 12.5° | 1791.7 | 1796.4 | 1811.4 | 1845.1 | 1888.3 | 1922.0 | 1925.8 | 1861.1 | 1750.5 | 1735.5 | 1600.4 |
| 15° | 1818.9 | 1823.6 | 1842.3 | 1886.4 | 1949.2 | 2015.8 | 2058.9 | 2017.7 | 1893.9 | 1878.0 | 1704.5 |
| 17.5° | 1831.1 | 1837.6 | 1864.8 | 1923.0 | 2004.5 | 2106.7 | 2204.2 | 2200.5 | 2063.6 | 2051.4 | 1825.5 |
| 20° | 1854.5 | 1859.2 | 1883.6 | 1946.4 | 2044.8 | 2192.0 | 2356.1 | 2415.2 | 2270.8 | 2253.0 | 1971.7 |
| 22.5° | 1928.6 | 1930.5 | 1941.7 | 1981.1 | 2073.0 | 2253.9 | 2510.8 | 2665.5 | 2515.5 | 2492.1 | 2135.8 |
| 25° | 2049.5 | 2048.6 | 2053.3 | 2059.9 | 2127.4 | 2316.7 | 2659.9 | 2947.7 | 2795.8 | 2770.5 | 2321.4 |
| 27.5° | 2203.3 | 2203.3 | 2214.6 | 2195.8 | 2223.0 | 2394.6 | 2807.1 | 3272.1 | 3122.1 | 3086.5 | 2524.9 |
| 30° | 2384.3 | 2383.3 | 2409.6 | 2379.6 | 2388.0 | 2517.4 | 2965.5 | 3625.6 | 3515.9 | 3471.8 | 2759.3 |
| 32.5° | 2629.9 | 2624.3 | 2654.3 | 2613.0 | 2584.9 | 2703.0 | 3158.7 | 3995.0 | 3987.5 | 3920.0 | 3053.7 |
| 35° | 2940.2 | 2930.9 | 2940.2 | 2899.9 | 2849.3 | 2962.7 | 3411.8 | 4363.5 | 4510.7 | 4439.4 | 3404.3 |
| 37.5° | 3248.7 | 3278.7 | 3289.0 | 3219.6 | 3178.4 | 3291.8 | 3716.5 | 4693.5 | 5010.4 | 4936.3 | 3769.0 |
| 40° | 3612.5 | 3603.1 | 3638.7 | 3560.9 | 3534.7 | 3660.3 | 4014.7 | 4939.1 | 5406.1 | 5335.7 | 4093.4 |
| 42.5° | 3880.6 | 3897.5 | 3941.6 | 3898.4 | 3877.8 | 3995.9 | 4265.0 | 5082.6 | 5680.8 | 5611.4 | 4325.0 |
| 45° | 4202.2 | 4214.4 | 4231.3 | 4195.6 | 4174.1 | 4290.3 | 4446.0 | 5145.4 | 5889.8 | 5814.8 | 4480.7 |
| 47.5° | 4550.0 | 4559.4 | 4559.4 | 4486.3 | 4416.9 | 4464.7 | 4566.9 | 5181.0 | 6082.0 | 6009.9 | 4596.0 |
| 50° | 4799.4 | 4804.1 | 4845.4 | 4793.8 | 4642.9 | 4568.8 | 4622.2 | 5215.7 | 6209.6 | 6142.0 | 4633.5 |
| 52.5° | 4578.2 | 4572.5 | 4708.5 | 4815.4 | 4855.7 | 4708.5 | 4717.9 | 5266.4 | 6271.4 | 6213.3 | 4663.5 |
| 55° | 3855.3 | 3845.9 | 4037.2 | 4296.9 | 4652.2 | 4840.7 | 4833.2 | 5296.4 | 6339.9 | 6304.2 | 4772.3 |
| 57.5° | 2794.9 | 2779.0 | 3045.2 | 3334.0 | 3800.0 | 4311.0 | 4611.0 | 5279.5 | 6369.9 | 6367.1 | 4898.8 |
| 60° | 1680.1 | 1667.0 | 1918.3 | 2222.1 | 2582.1 | 3095.9 | 3593.7 | 4729.1 | 5968.6 | 5974.2 | 4569.7 |
| 62.5° | 1034.1 | 1046.3 | 1273.2 | 1427.9 | 1562.0 | 1716.7 | 2004.5 | 3181.2 | 4421.6 | 4458.2 | 3211.2 |
| 65° | 695.7 | 705.1 | 915.1 | 1110.1 | 1110.1 | 907.6 | 779.1 | 1520.7 | 2358.9 | 2297.1 | 1518.9 |
| 67.5° | 466.9 | 477.2 | 643.2 | 871.0 | 903.8 | 632.9 | 316.0 | 453.8 | 657.2 | 637.6 | 376.0 |
| 70° | 274.7 | 286.0 | 428.5 | 597.2 | 658.2 | 440.7 | 211.0 | 192.2 | 186.6 | 181.0 | 146.3 |
| 72.5° | 122.8 | 127.5 | 218.5 | 303.8 | 277.5 | 185.6 | 149.1 | 153.8 | 145.3 | 142.5 | 119.1 |
| 75° | 37.5 | 39.4 | 56.3 | 65.6 | 66.6 | 66.6 | 90.0 | 120.9 | 114.4 | 115.3 | 91.9 |
| 77.5° | 9.4 | 9.4 | 15.0 | 14.1 | 7.5 | 6.6 | 16.9 | 27.2 | 28.1 | 25.3 | 18.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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: P639038
 CATALOG NUMBER: GWS-SA5B-722-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 | 1295.7 |
| 2.5° | 1313.5 | 1289.2 | 1273.2 | 1250.7 | 1234.8 | 1217.9 | 1202.9 | 1190.7 | 1184.2 | 1182.3 | 1183.2 |
| 5° | 1343.5 | 1305.1 | 1267.6 | 1224.5 | 1194.5 | 1166.3 | 1143.8 | 1126.0 | 1117.6 | 1114.8 | 1114.8 |
| 7.5° | 1389.5 | 1336.0 | 1269.5 | 1202.0 | 1151.3 | 1107.3 | 1081.0 | 1061.3 | 1053.8 | 1052.0 | 1046.3 |
| 10° | 1449.5 | 1376.4 | 1266.7 | 1161.7 | 1090.4 | 1044.5 | 1025.7 | 1020.1 | 1022.9 | 1023.8 | 1022.9 |
| 12.5° | 1521.7 | 1418.5 | 1248.8 | 1102.6 | 1025.7 | 997.6 | 999.5 | 1014.5 | 1031.3 | 1039.8 | 1041.6 |
| 15° | 1598.6 | 1457.0 | 1208.5 | 1032.3 | 970.4 | 969.5 | 996.6 | 1031.3 | 1064.1 | 1078.2 | 1082.0 |
| 17.5° | 1684.8 | 1487.9 | 1146.7 | 957.3 | 922.6 | 949.8 | 998.5 | 1052.0 | 1096.0 | 1119.5 | 1124.2 |
| 20° | 1779.5 | 1513.2 | 1067.9 | 886.9 | 880.4 | 929.1 | 996.6 | 1062.3 | 1116.7 | 1142.9 | 1147.6 |
| 22.5° | 1878.0 | 1531.1 | 977.0 | 822.3 | 841.9 | 905.7 | 978.8 | 1042.6 | 1094.1 | 1124.2 | 1127.9 |
| 25° | 1990.5 | 1532.9 | 884.1 | 767.9 | 806.3 | 873.8 | 935.7 | 988.2 | 1031.3 | 1057.6 | 1060.4 |
| 27.5° | 2088.9 | 1510.4 | 801.6 | 723.8 | 773.5 | 834.4 | 875.7 | 904.8 | 934.8 | 949.8 | 950.7 |
| 30° | 2202.4 | 1471.1 | 723.8 | 688.2 | 739.7 | 785.7 | 806.3 | 812.9 | 815.7 | 818.5 | 814.8 |
| 32.5° | 2337.4 | 1423.2 | 665.7 | 653.5 | 701.3 | 732.2 | 737.9 | 724.7 | 708.8 | 686.3 | 680.7 |
| 35° | 2503.3 | 1380.1 | 617.9 | 619.7 | 659.1 | 677.9 | 673.2 | 645.1 | 614.1 | 586.9 | 582.2 |
| 37.5° | 2683.3 | 1343.5 | 581.3 | 586.9 | 613.2 | 626.3 | 612.2 | 581.3 | 567.2 | 543.8 | 544.7 |
| 40° | 2842.7 | 1313.5 | 548.5 | 554.1 | 566.3 | 578.5 | 556.0 | 535.4 | 561.6 | 559.7 | 561.6 |
| 42.5° | 2956.2 | 1288.2 | 520.4 | 517.5 | 526.0 | 534.4 | 517.5 | 507.2 | 551.3 | 539.1 | 545.7 |
| 45° | 3022.7 | 1264.8 | 496.9 | 480.0 | 493.2 | 508.2 | 496.9 | 483.8 | 498.8 | 442.5 | 437.8 |
| 47.5° | 3067.7 | 1251.7 | 476.3 | 443.5 | 466.9 | 493.2 | 469.7 | 437.8 | 416.3 | 367.5 | 363.8 |
| 50° | 3072.4 | 1245.1 | 451.9 | 406.0 | 436.0 | 464.1 | 436.9 | 392.8 | 361.9 | 340.3 | 337.5 |
| 52.5° | 3096.8 | 1258.2 | 418.2 | 358.2 | 391.0 | 436.0 | 417.2 | 373.2 | 331.0 | 312.2 | 308.5 |
| 55° | 3205.6 | 1313.5 | 361.9 | 292.5 | 340.3 | 414.4 | 401.3 | 332.8 | 292.5 | 281.3 | 278.5 |
| 57.5° | 3318.1 | 1324.8 | 285.0 | 231.6 | 296.3 | 383.5 | 366.6 | 306.6 | 267.2 | 254.1 | 251.3 |
| 60° | 3034.0 | 1091.3 | 213.8 | 191.3 | 261.6 | 354.4 | 339.4 | 290.6 | 244.7 | 228.8 | 226.0 |
| 62.5° | 1993.3 | 589.7 | 169.7 | 162.2 | 220.3 | 300.0 | 309.4 | 262.5 | 218.5 | 201.6 | 200.6 |
| 65° | 918.8 | 273.8 | 130.3 | 128.4 | 172.5 | 239.1 | 266.3 | 229.7 | 184.7 | 169.7 | 169.7 |
| 67.5° | 250.3 | 135.9 | 102.2 | 94.7 | 117.2 | 160.3 | 194.1 | 171.6 | 131.3 | 113.4 | 112.5 |
| 70° | 124.7 | 109.7 | 91.9 | 81.6 | 84.4 | 99.4 | 114.4 | 95.6 | 66.6 | 54.4 | 53.4 |
| 72.5° | 102.2 | 90.0 | 77.8 | 69.4 | 63.8 | 60.9 | 59.1 | 47.8 | 30.9 | 23.4 | 22.5 |
| 75° | 75.9 | 64.7 | 55.3 | 45.0 | 38.4 | 35.6 | 31.9 | 23.4 | 13.1 | 7.5 | 6.6 |
| 77.5° | 16.9 | 15.9 | 15.0 | 11.3 | 10.3 | 8.4 | 6.6 | 4.7 | 1.9 | 0.0 | 0.0 |
| 80° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 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 |

(END OF REPORT)