

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: P629310

Luminaire Tested: GWS-SA1B-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3111.1 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

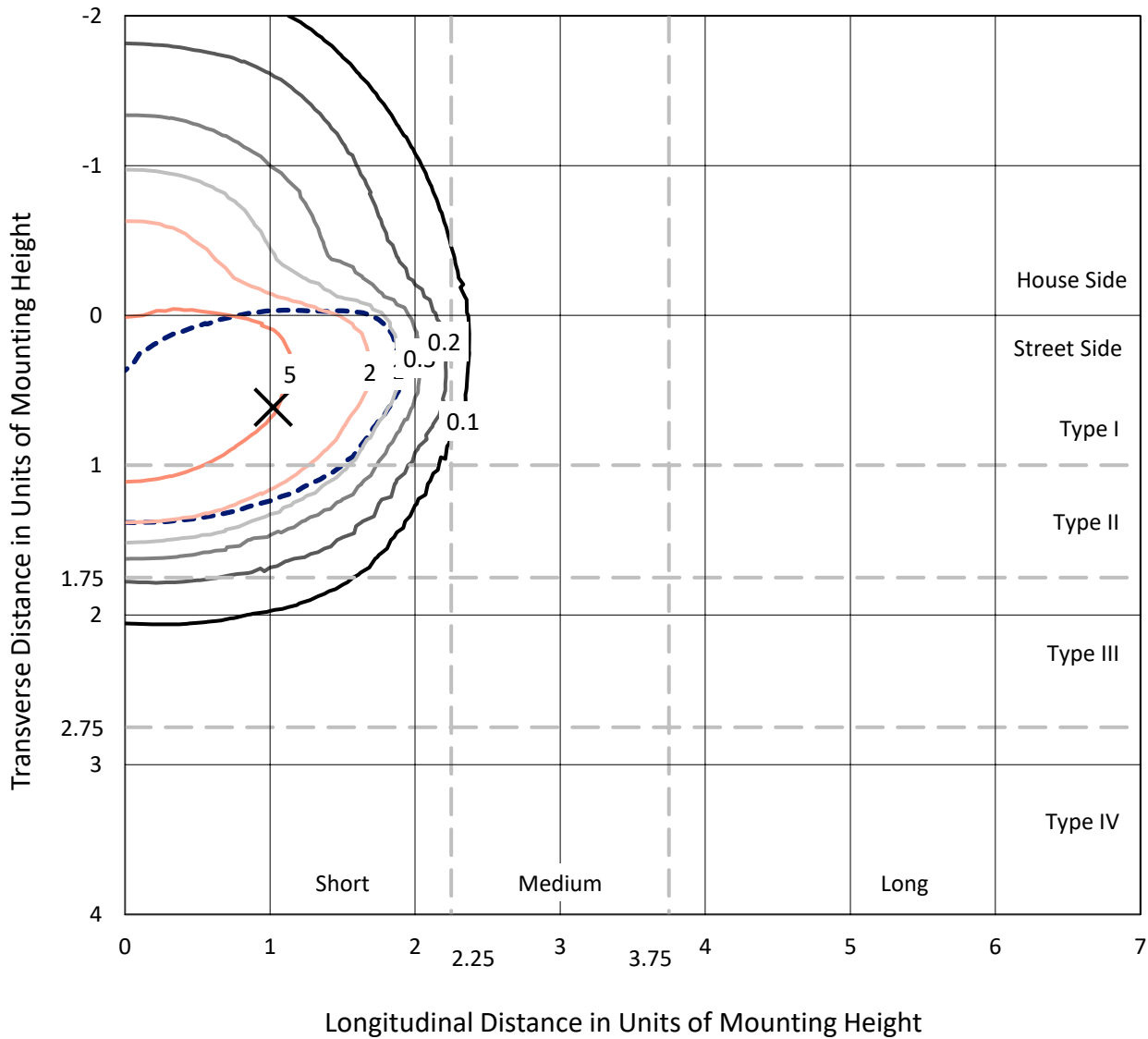
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629310
 CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

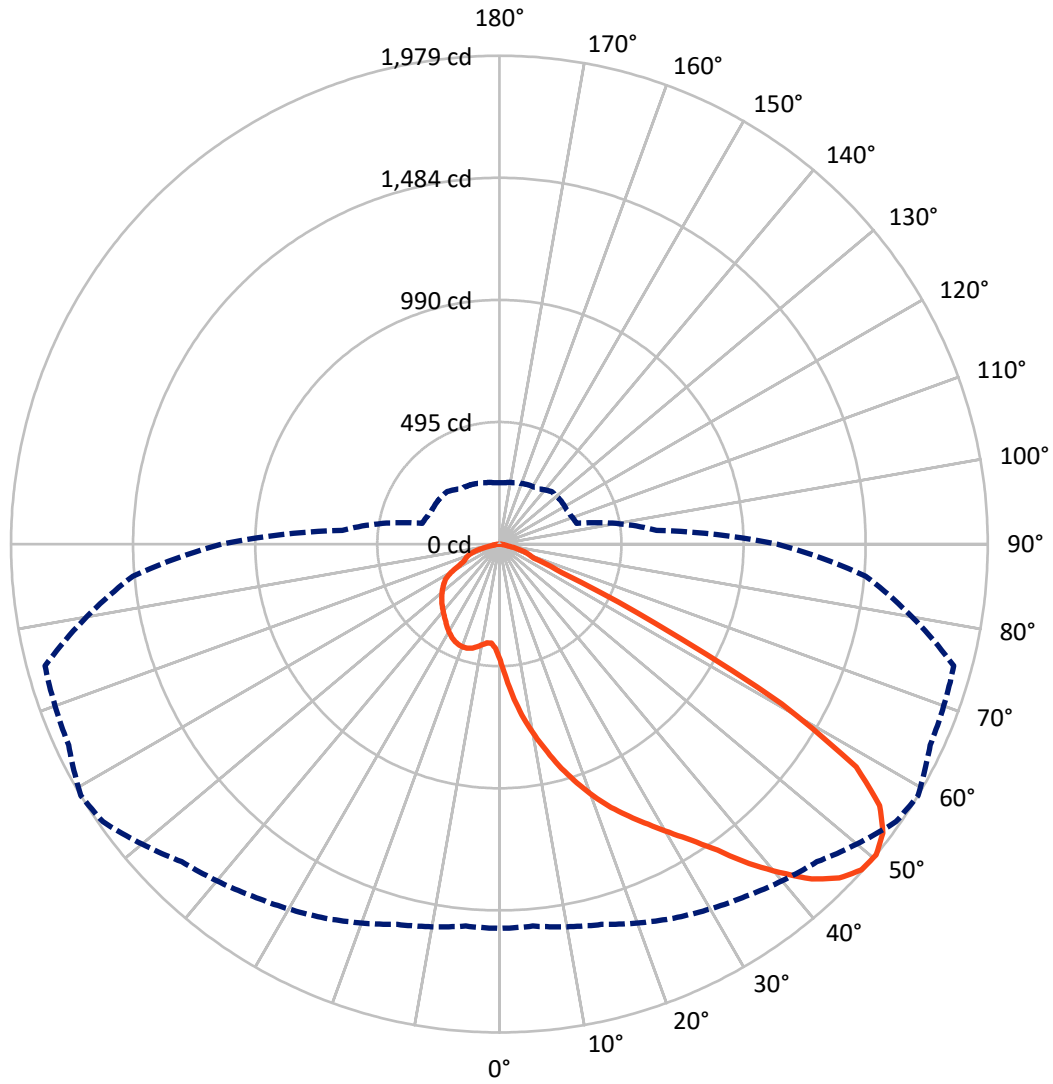
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P629310
CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P629310

CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

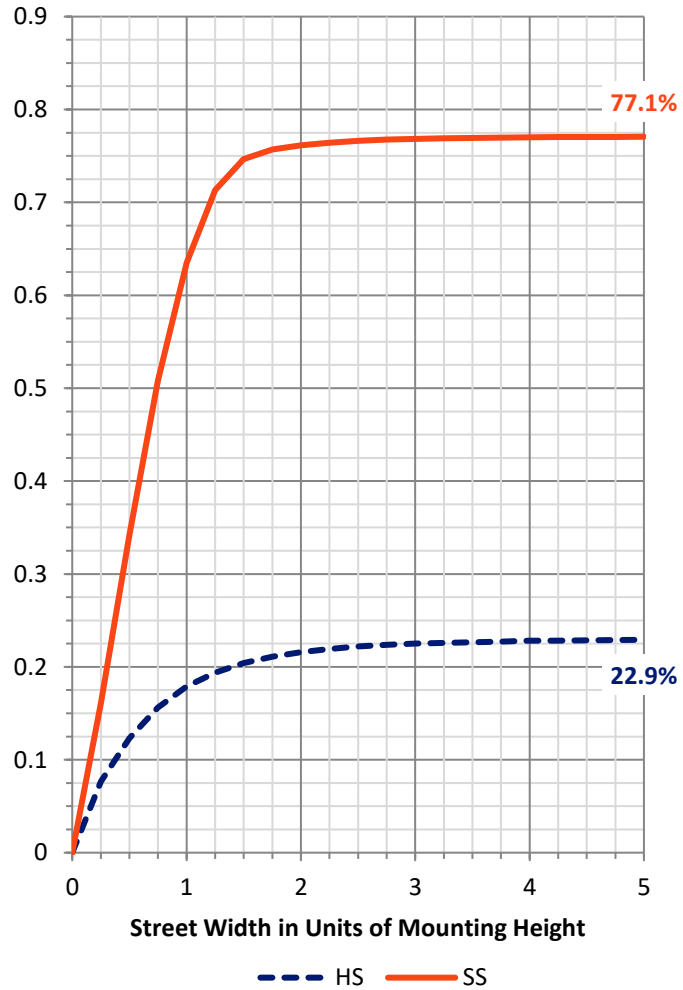
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 715.6 | 0.0 | 715.6 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 2395.5 | 0.0 | 2395.5 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 3111.1 | 0.0 | 3111.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.9 | 1.7 |
| 10°-20° | 192.0 | 6.2 |
| 20°-30° | 363.5 | 11.7 |
| 30°-40° | 602.8 | 19.4 |
| 40°-50° | 823.4 | 26.5 |
| 50°-60° | 747.5 | 24.0 |
| 60°-70° | 248.9 | 8.0 |
| 70°-80° | 72.6 | 2.3 |
| 80°-90° | 7.6 | 0.2 |
| 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° | 3111.1 | 100.0 |
| 0°-180° | 3111.1 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P629310

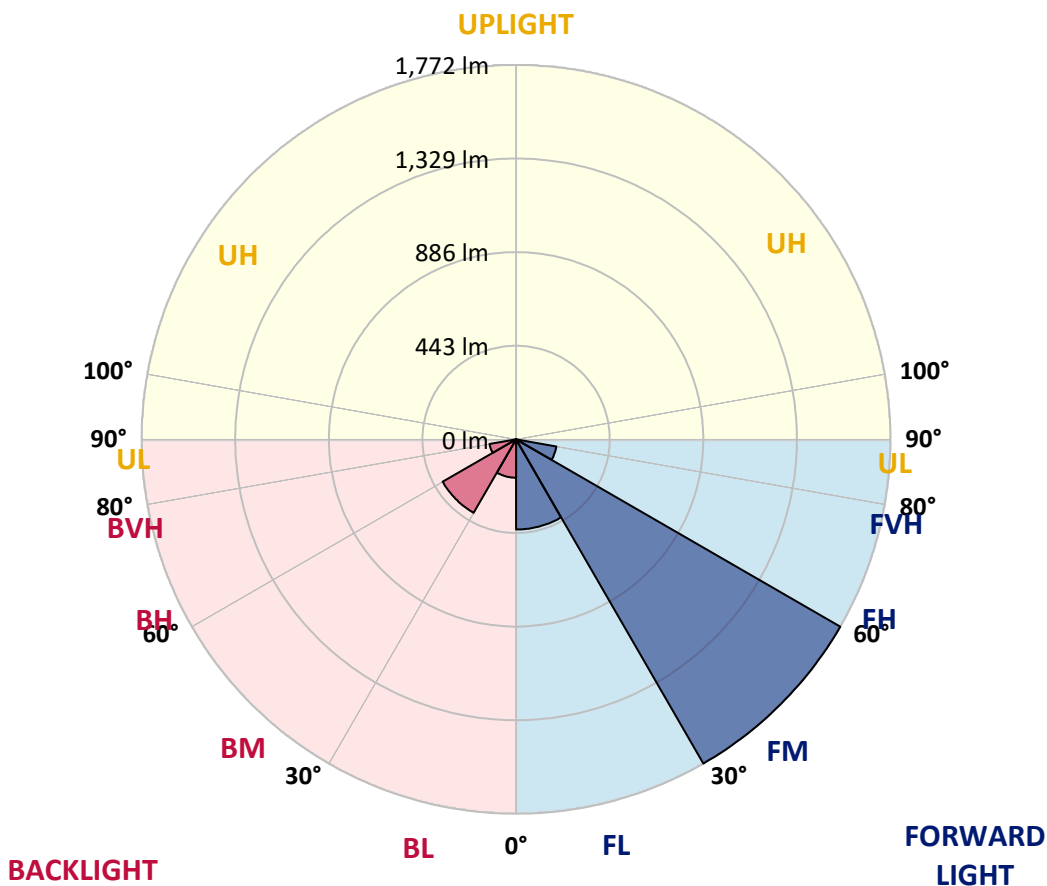
CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 426.6 | 13.7 | | | |
| FM (30°-60°) | 1772.1 | 57.0 | | | |
| FH (60°-80°) | 193.8 | 6.2 | | | G0/660 |
| FVH (80°-90°) | 3.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 181.7 | 5.8 | B1/500 | | |
| BM (30°-60°) | 401.5 | 12.9 | B1/1000 | | |
| BH (60°-80°) | 127.7 | 4.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.6 | 0.1 | | | 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: P629310

CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 |
| 2.5° | 610.7 | 615.3 | 608.2 | 608.7 | 591.0 | 582.9 | 560.0 | 546.6 | 537.7 | 512.9 | 490.4 |
| 5° | 733.9 | 728.6 | 723.0 | 719.7 | 704.2 | 682.4 | 654.1 | 631.5 | 610.7 | 562.1 | 515.2 |
| 7.5° | 809.4 | 806.6 | 802.8 | 800.8 | 785.6 | 762.8 | 734.4 | 715.1 | 685.0 | 619.1 | 545.4 |
| 10° | 873.5 | 870.2 | 867.9 | 869.5 | 857.1 | 842.4 | 811.4 | 789.4 | 755.4 | 679.4 | 581.8 |
| 12.5° | 923.2 | 925.0 | 925.7 | 933.8 | 928.5 | 919.6 | 887.7 | 864.4 | 826.6 | 743.0 | 624.7 |
| 15° | 962.5 | 962.0 | 970.8 | 986.3 | 994.9 | 989.3 | 963.7 | 944.2 | 898.1 | 805.6 | 670.8 |
| 17.5° | 971.6 | 972.1 | 986.0 | 1013.2 | 1041.3 | 1055.0 | 1040.5 | 1017.2 | 971.6 | 867.4 | 718.7 |
| 20° | 978.9 | 980.0 | 994.4 | 1025.3 | 1066.4 | 1104.6 | 1106.9 | 1090.2 | 1050.9 | 934.3 | 767.3 |
| 22.5° | 1025.3 | 1027.6 | 1031.4 | 1050.9 | 1087.9 | 1136.3 | 1162.9 | 1159.4 | 1126.4 | 1004.5 | 819.8 |
| 25° | 1147.2 | 1140.4 | 1121.9 | 1116.3 | 1130.5 | 1169.8 | 1215.1 | 1222.0 | 1205.8 | 1081.8 | 876.3 |
| 27.5° | 1297.7 | 1290.4 | 1263.0 | 1234.1 | 1203.5 | 1217.2 | 1265.6 | 1286.1 | 1286.3 | 1167.0 | 933.1 |
| 30° | 1434.3 | 1428.5 | 1406.2 | 1364.9 | 1311.9 | 1292.2 | 1327.9 | 1355.5 | 1372.0 | 1265.3 | 997.7 |
| 32.5° | 1551.2 | 1545.8 | 1515.7 | 1482.0 | 1430.3 | 1390.5 | 1403.4 | 1430.0 | 1468.5 | 1392.5 | 1078.0 |
| 35° | 1649.5 | 1644.2 | 1615.3 | 1581.3 | 1533.4 | 1509.6 | 1505.0 | 1523.3 | 1573.2 | 1525.3 | 1170.3 |
| 37.5° | 1729.3 | 1724.0 | 1693.8 | 1661.9 | 1625.4 | 1626.9 | 1633.8 | 1642.6 | 1671.3 | 1667.5 | 1268.9 |
| 40° | 1781.0 | 1775.4 | 1753.9 | 1731.1 | 1708.0 | 1726.3 | 1760.2 | 1749.6 | 1764.8 | 1782.3 | 1359.6 |
| 42.5° | 1804.1 | 1797.0 | 1784.6 | 1779.5 | 1772.4 | 1800.8 | 1866.2 | 1855.5 | 1837.3 | 1858.8 | 1427.0 |
| 45° | 1781.0 | 1774.9 | 1774.7 | 1790.1 | 1806.6 | 1843.1 | 1939.4 | 1930.8 | 1884.7 | 1895.8 | 1467.3 |
| 47.5° | 1710.3 | 1705.0 | 1719.4 | 1760.0 | 1800.5 | 1853.7 | 1972.1 | 1973.6 | 1918.4 | 1911.3 | 1493.4 |
| 50° | 1557.5 | 1553.9 | 1595.8 | 1672.5 | 1742.5 | 1820.5 | 1961.7 | 1979.2 | 1926.5 | 1906.4 | 1490.1 |
| 52.5° | 1246.8 | 1263.3 | 1354.3 | 1482.5 | 1618.3 | 1762.3 | 1923.2 | 1946.0 | 1887.4 | 1874.8 | 1472.3 |
| 55° | 853.5 | 861.1 | 952.1 | 1139.4 | 1354.8 | 1636.1 | 1834.7 | 1870.0 | 1841.3 | 1869.4 | 1490.8 |
| 57.5° | 442.0 | 448.0 | 519.8 | 686.0 | 918.9 | 1292.9 | 1589.2 | 1704.7 | 1748.3 | 1896.3 | 1548.4 |
| 60° | 181.4 | 186.5 | 216.2 | 296.5 | 463.5 | 752.9 | 1143.7 | 1315.0 | 1417.4 | 1731.8 | 1375.0 |
| 62.5° | 131.8 | 134.3 | 148.5 | 176.9 | 242.8 | 369.0 | 647.2 | 710.3 | 782.3 | 1085.4 | 873.0 |
| 65° | 111.0 | 113.8 | 125.2 | 142.4 | 177.1 | 226.3 | 276.5 | 278.0 | 306.4 | 442.2 | 323.6 |
| 67.5° | 93.0 | 95.5 | 105.7 | 120.4 | 143.2 | 160.7 | 148.5 | 148.8 | 148.2 | 160.4 | 155.1 |
| 70° | 72.5 | 74.5 | 84.6 | 100.4 | 112.3 | 103.1 | 116.1 | 128.5 | 123.2 | 128.0 | 135.3 |
| 72.5° | 53.0 | 55.2 | 64.1 | 76.0 | 73.0 | 73.5 | 94.0 | 106.7 | 103.6 | 109.0 | 115.8 |
| 75° | 38.3 | 39.8 | 44.3 | 38.0 | 40.0 | 48.4 | 66.1 | 73.0 | 76.0 | 80.6 | 86.7 |
| 77.5° | 12.4 | 12.4 | 13.9 | 17.5 | 21.8 | 26.9 | 33.7 | 36.5 | 41.1 | 46.1 | 50.4 |
| 80° | 6.3 | 6.6 | 7.9 | 9.6 | 12.2 | 15.5 | 19.8 | 21.0 | 23.3 | 26.1 | 27.9 |
| 82.5° | 3.0 | 3.3 | 3.8 | 4.8 | 6.3 | 8.1 | 10.9 | 12.2 | 13.7 | 15.5 | 16.7 |
| 85° | 0.8 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0 | 4.1 | 4.8 | 6.1 | 7.3 | 8.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8 | 1.0 | 1.3 | 1.5 | 2.0 |
| 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: P629310

CATALOG NUMBER: GWS-SA1B-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 | 471.4 |
| 2.5° | 480.2 | 466.0 | 447.8 | 432.3 | 418.1 | 407.2 | 397.9 | 393.3 | 389.0 | 386.0 | 387.0 |
| 5° | 493.4 | 469.1 | 435.1 | 411.5 | 397.1 | 389.8 | 384.7 | 382.2 | 381.6 | 379.6 | 378.9 |
| 7.5° | 512.7 | 477.9 | 432.6 | 408.8 | 399.1 | 395.3 | 392.5 | 391.0 | 391.8 | 389.8 | 389.0 |
| 10° | 536.5 | 492.6 | 438.9 | 417.9 | 409.5 | 406.7 | 403.7 | 401.7 | 400.7 | 397.6 | 397.1 |
| 12.5° | 566.1 | 510.9 | 450.3 | 429.5 | 421.2 | 416.4 | 412.3 | 408.8 | 406.5 | 402.7 | 401.7 |
| 15° | 598.1 | 531.2 | 463.8 | 440.9 | 431.1 | 424.0 | 417.4 | 412.1 | 408.0 | 402.9 | 402.2 |
| 17.5° | 632.8 | 552.4 | 474.9 | 448.8 | 436.1 | 426.8 | 417.1 | 409.3 | 403.7 | 397.1 | 396.3 |
| 20° | 669.0 | 574.0 | 483.3 | 452.6 | 436.4 | 423.7 | 410.8 | 400.4 | 393.3 | 386.7 | 386.2 |
| 22.5° | 706.5 | 593.8 | 488.3 | 451.6 | 432.3 | 416.6 | 401.2 | 389.5 | 381.1 | 373.3 | 372.8 |
| 25° | 744.3 | 612.8 | 489.6 | 447.5 | 424.2 | 406.0 | 390.5 | 376.8 | 367.5 | 358.6 | 357.6 |
| 27.5° | 782.5 | 628.7 | 486.6 | 439.4 | 413.3 | 393.6 | 378.1 | 364.7 | 355.0 | 346.2 | 344.6 |
| 30° | 823.3 | 642.4 | 480.0 | 428.8 | 400.7 | 380.4 | 365.2 | 355.0 | 345.9 | 337.0 | 335.5 |
| 32.5° | 866.9 | 654.3 | 470.6 | 415.9 | 386.0 | 367.2 | 356.0 | 346.9 | 337.8 | 329.9 | 328.4 |
| 35° | 918.9 | 662.2 | 456.7 | 399.1 | 372.3 | 357.6 | 350.0 | 339.3 | 328.2 | 319.6 | 318.8 |
| 37.5° | 972.6 | 668.3 | 439.9 | 383.2 | 360.4 | 352.0 | 345.7 | 331.2 | 317.3 | 306.9 | 305.6 |
| 40° | 1024.6 | 673.3 | 419.1 | 368.2 | 349.5 | 347.9 | 339.3 | 321.3 | 297.3 | 285.6 | 284.6 |
| 42.5° | 1073.0 | 674.8 | 397.4 | 352.2 | 339.6 | 338.8 | 329.2 | 301.3 | 282.8 | 275.5 | 274.4 |
| 45° | 1106.2 | 673.6 | 374.8 | 337.3 | 329.7 | 325.6 | 315.5 | 286.9 | 275.5 | 268.9 | 267.6 |
| 47.5° | 1130.7 | 667.0 | 349.5 | 321.6 | 318.5 | 313.0 | 291.2 | 277.7 | 267.1 | 260.5 | 259.2 |
| 50° | 1126.4 | 639.6 | 323.9 | 306.4 | 305.1 | 300.3 | 273.4 | 266.3 | 257.0 | 249.9 | 248.9 |
| 52.5° | 1104.1 | 587.7 | 297.8 | 289.7 | 292.2 | 282.8 | 260.8 | 252.7 | 244.5 | 236.4 | 234.7 |
| 55° | 1109.7 | 550.2 | 278.0 | 273.4 | 278.0 | 256.7 | 246.6 | 238.0 | 230.4 | 222.5 | 221.0 |
| 57.5° | 1134.0 | 513.2 | 257.0 | 256.0 | 260.8 | 236.7 | 228.3 | 217.4 | 206.5 | 200.2 | 200.2 |
| 60° | 952.3 | 374.0 | 220.0 | 222.5 | 233.4 | 220.5 | 213.1 | 202.0 | 190.1 | 184.5 | 184.5 |
| 62.5° | 563.1 | 234.7 | 182.5 | 179.7 | 186.5 | 194.6 | 198.7 | 189.6 | 175.4 | 168.0 | 168.3 |
| 65° | 248.1 | 170.8 | 160.9 | 158.6 | 156.6 | 162.2 | 173.3 | 174.1 | 159.1 | 150.5 | 150.8 |
| 67.5° | 152.8 | 154.6 | 150.5 | 148.8 | 147.0 | 146.0 | 145.0 | 145.5 | 141.4 | 133.6 | 133.3 |
| 70° | 137.9 | 142.7 | 139.9 | 138.4 | 136.1 | 134.3 | 128.2 | 118.3 | 111.5 | 109.5 | 111.8 |
| 72.5° | 118.6 | 125.2 | 123.7 | 122.9 | 120.1 | 115.8 | 107.7 | 98.1 | 90.0 | 84.9 | 85.9 |
| 75° | 89.5 | 94.8 | 95.5 | 95.8 | 92.8 | 88.7 | 80.3 | 72.2 | 65.1 | 59.8 | 61.1 |
| 77.5° | 51.4 | 54.5 | 55.2 | 56.0 | 53.7 | 52.2 | 46.6 | 40.8 | 37.0 | 31.4 | 32.9 |
| 80° | 28.6 | 29.9 | 29.9 | 30.2 | 28.9 | 27.1 | 23.3 | 20.0 | 18.2 | 15.7 | 16.0 |
| 82.5° | 17.2 | 17.7 | 18.0 | 18.2 | 17.5 | 15.7 | 12.9 | 10.6 | 9.6 | 8.4 | 8.1 |
| 85° | 8.4 | 8.9 | 8.9 | 9.1 | 7.9 | 6.8 | 5.3 | 4.1 | 3.5 | 2.5 | 2.8 |
| 87.5° | 2.0 | 2.3 | 2.3 | 2.0 | 1.8 | 1.3 | 0.8 | 0.3 | 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)