

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: P632048

Luminaire Tested: GWS-SA2B-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632048
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-SA2B-830-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2924.8 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

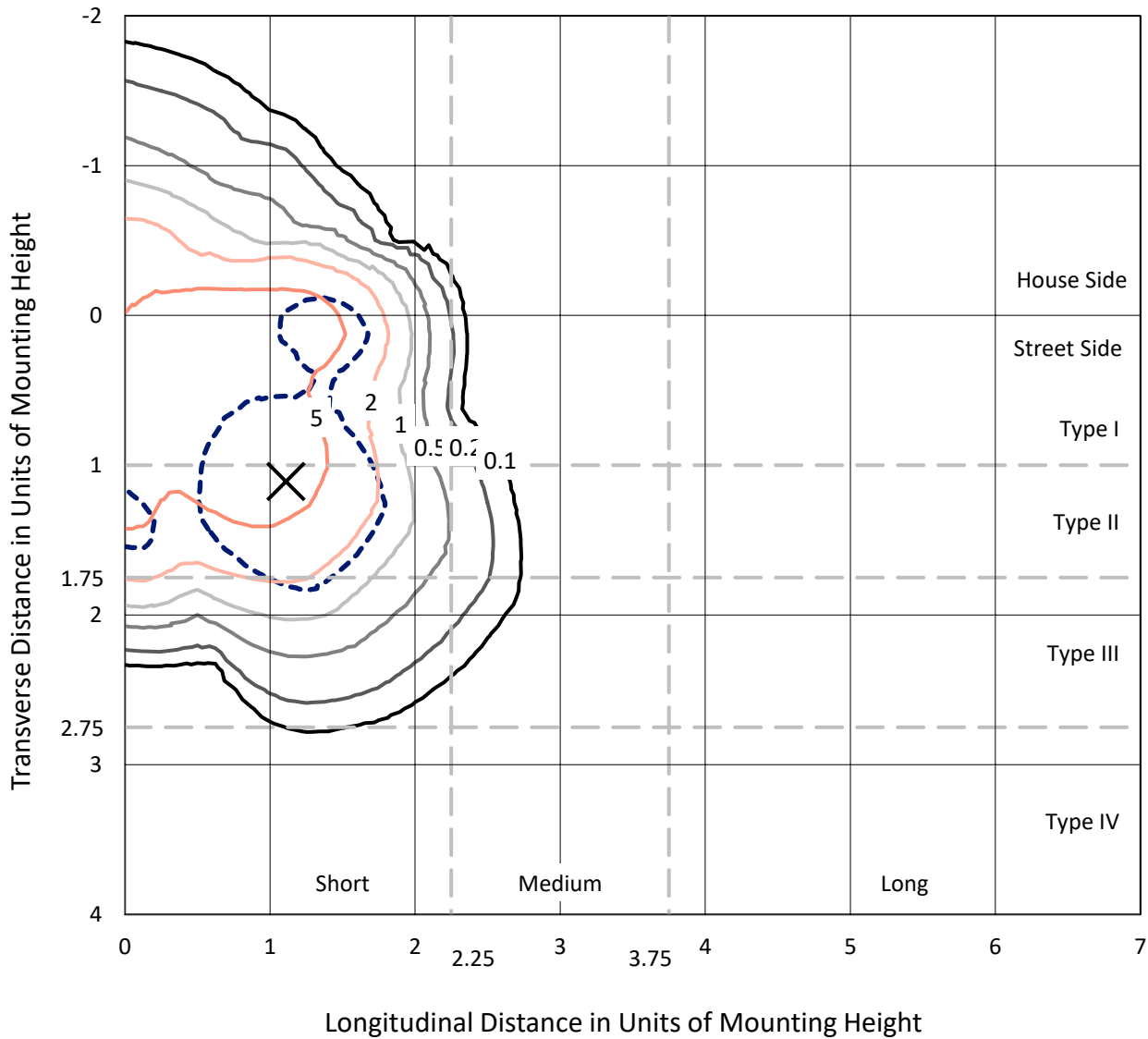
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632048
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Iso-Footcandle Lines of Horizontal Illumination

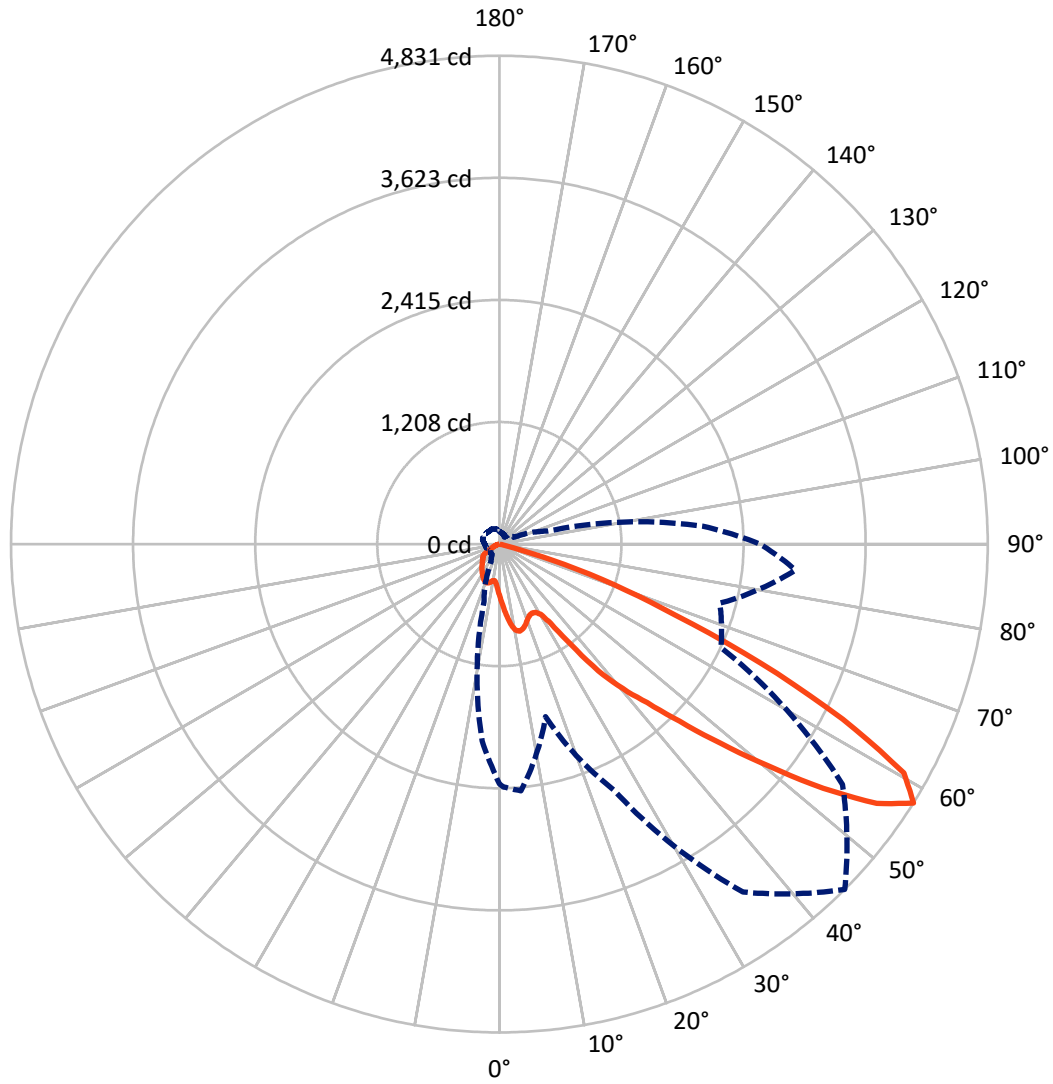
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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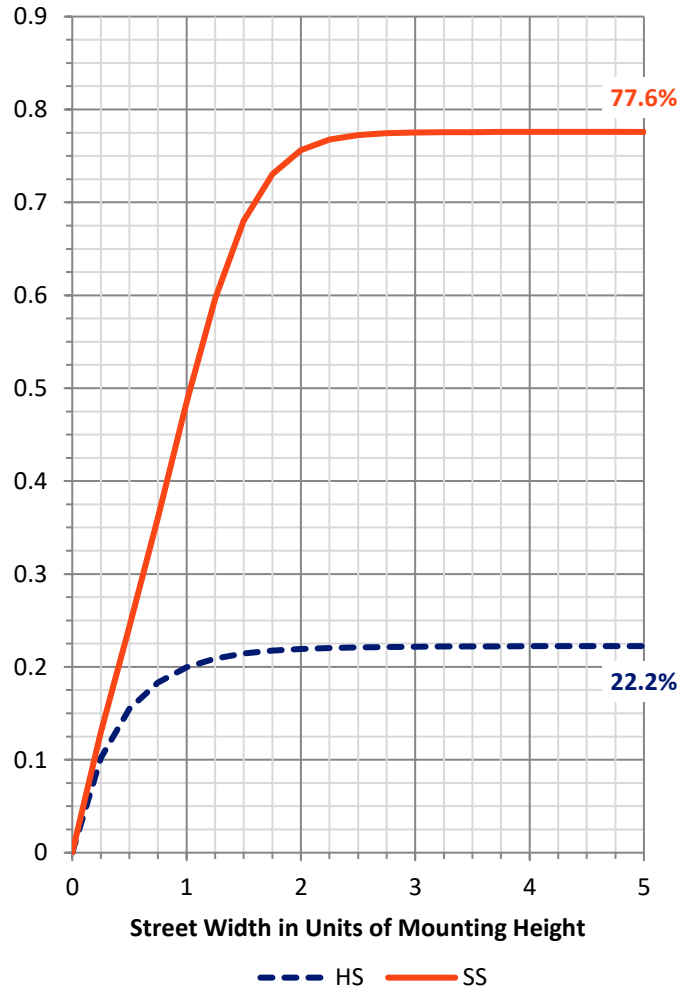
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 654.9 | 0.0 | 654.9 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 2269.9 | 0.0 | 2269.9 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 2924.8 | 0.0 | 2924.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.6 | 1.7 |
| 10°-20° | 163.6 | 5.6 |
| 20°-30° | 265.8 | 9.1 |
| 30°-40° | 410.6 | 14.0 |
| 40°-50° | 658.4 | 22.5 |
| 50°-60° | 899.9 | 30.8 |
| 60°-70° | 435.9 | 14.9 |
| 70°-80° | 39.9 | 1.4 |
| 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° | 2924.8 | 100.0 |
| 0°-180° | 2924.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P632048

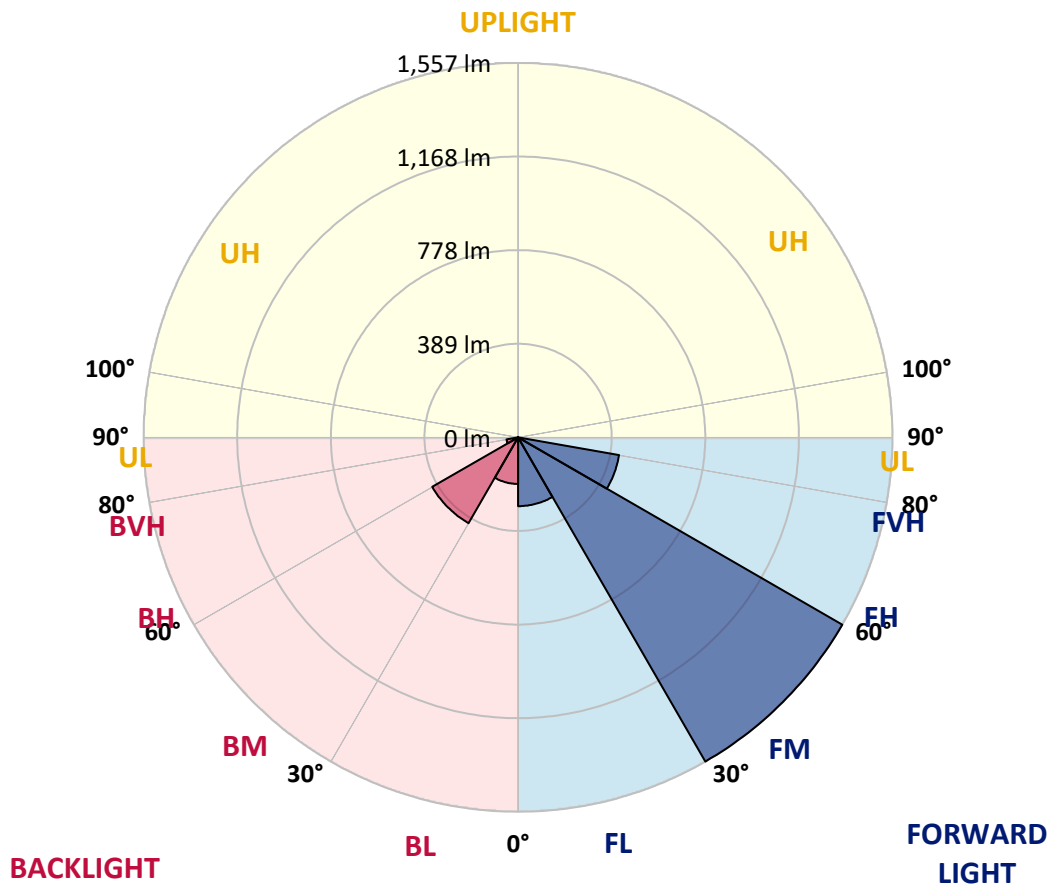
CATALOG NUMBER: GWS-SA2B-830-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 286.1 | 9.8 | | | |
| FM (30°-60°) | 1556.9 | 53.2 | | | |
| FH (60°-80°) | 426.7 | 14.6 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 193.8 | 6.6 | B1/500 | | |
| BM (30°-60°) | 412.1 | 14.1 | B1/1000 | | |
| BH (60°-80°) | 49.1 | 1.7 | B0/110 | | G0/110 |
| 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-G0

Type III Short





REPORT NUMBER: P632048
 CATALOG NUMBER: GWS-SA2B-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |
| 2.5° | 556.9 | 560.4 | 566.3 | 578.9 | 589.5 | 596.6 | 599.7 | 599.0 | 594.6 | 591.5 | 585.2 |
| 5° | 616.6 | 616.6 | 628.0 | 656.7 | 678.7 | 692.5 | 699.6 | 695.2 | 686.6 | 672.8 | 651.6 |
| 7.5° | 668.9 | 670.9 | 690.1 | 731.0 | 764.4 | 784.1 | 795.5 | 793.1 | 777.8 | 751.4 | 709.0 |
| 10° | 709.8 | 712.1 | 737.7 | 787.6 | 826.9 | 846.9 | 863.8 | 865.4 | 848.5 | 813.5 | 764.8 |
| 12.5° | 749.5 | 751.8 | 778.6 | 826.5 | 861.1 | 869.4 | 884.3 | 890.2 | 885.9 | 861.1 | 810.4 |
| 15° | 792.3 | 797.8 | 820.6 | 856.4 | 870.9 | 861.1 | 870.9 | 881.5 | 896.1 | 893.7 | 848.1 |
| 17.5° | 834.4 | 838.3 | 861.5 | 874.1 | 858.0 | 832.4 | 837.1 | 849.7 | 882.7 | 914.9 | 885.5 |
| 20° | 873.3 | 878.8 | 898.0 | 881.5 | 832.8 | 793.1 | 793.5 | 810.0 | 860.3 | 927.9 | 923.6 |
| 22.5° | 914.2 | 922.4 | 936.2 | 889.8 | 809.6 | 762.1 | 764.0 | 779.0 | 842.6 | 940.1 | 966.8 |
| 25° | 967.6 | 975.5 | 984.5 | 910.2 | 802.1 | 746.7 | 754.2 | 768.0 | 842.6 | 960.9 | 1020.3 |
| 27.5° | 1039.9 | 1045.4 | 1045.8 | 948.3 | 815.1 | 749.1 | 764.8 | 780.5 | 867.8 | 1002.6 | 1091.8 |
| 30° | 1130.7 | 1139.4 | 1128.0 | 1007.7 | 855.6 | 780.5 | 803.7 | 823.4 | 922.0 | 1072.9 | 1197.1 |
| 32.5° | 1241.1 | 1253.3 | 1238.0 | 1095.7 | 940.1 | 889.0 | 931.1 | 942.5 | 1008.5 | 1174.7 | 1316.6 |
| 35° | 1370.8 | 1381.1 | 1364.6 | 1217.6 | 1137.4 | 1146.8 | 1223.1 | 1208.5 | 1182.2 | 1300.1 | 1456.1 |
| 37.5° | 1513.1 | 1522.5 | 1490.7 | 1402.3 | 1429.0 | 1469.9 | 1591.7 | 1541.8 | 1456.9 | 1461.6 | 1607.4 |
| 40° | 1643.6 | 1653.8 | 1603.9 | 1603.1 | 1658.1 | 1732.8 | 1879.8 | 1811.0 | 1695.5 | 1673.1 | 1749.3 |
| 42.5° | 1778.8 | 1785.9 | 1740.7 | 1710.0 | 1835.0 | 1988.7 | 2144.3 | 2051.5 | 1853.5 | 1829.1 | 1927.0 |
| 45° | 1971.8 | 1986.7 | 1906.1 | 1762.7 | 1994.2 | 2283.0 | 2500.0 | 2318.8 | 1961.2 | 1941.5 | 2198.9 |
| 47.5° | 2255.5 | 2266.5 | 2102.2 | 1795.7 | 2142.3 | 2649.7 | 2944.5 | 2665.4 | 2055.9 | 2011.1 | 2570.7 |
| 50° | 2490.1 | 2497.6 | 2282.6 | 1831.8 | 2299.9 | 3045.1 | 3451.1 | 3076.5 | 2162.4 | 2126.2 | 2917.8 |
| 52.5° | 2663.1 | 2691.4 | 2519.6 | 1906.1 | 2507.0 | 3510.0 | 4011.9 | 3563.5 | 2328.6 | 2348.7 | 3205.4 |
| 55° | 2698.8 | 2737.4 | 2681.5 | 1951.7 | 2689.4 | 3983.6 | 4529.9 | 3999.3 | 2494.5 | 2517.3 | 3302.1 |
| 57.5° | 2371.9 | 2402.5 | 2448.9 | 1767.8 | 2685.1 | 4200.6 | 4830.6 | 4144.0 | 2419.0 | 2257.5 | 2940.2 |
| 60° | 1776.8 | 1798.0 | 1882.2 | 1351.2 | 2469.3 | 4008.8 | 4596.3 | 3897.9 | 2115.2 | 1722.6 | 2240.2 |
| 62.5° | 1053.7 | 1063.1 | 1169.6 | 875.2 | 2049.6 | 3452.3 | 3811.9 | 3363.4 | 1671.5 | 1158.6 | 1372.0 |
| 65° | 404.4 | 400.5 | 481.8 | 431.9 | 1507.2 | 2749.9 | 2835.2 | 2564.0 | 1146.8 | 531.0 | 523.1 |
| 67.5° | 62.5 | 59.7 | 80.6 | 127.7 | 1087.1 | 1905.7 | 1870.8 | 1848.0 | 718.4 | 123.8 | 108.1 |
| 70° | 14.1 | 14.1 | 17.3 | 37.7 | 664.2 | 1119.7 | 1198.3 | 1142.5 | 459.8 | 26.3 | 14.1 |
| 72.5° | 6.7 | 6.7 | 8.3 | 16.1 | 240.5 | 461.4 | 537.6 | 529.4 | 149.3 | 8.6 | 5.1 |
| 75° | 2.4 | 2.8 | 2.8 | 3.5 | 14.5 | 24.0 | 55.0 | 39.3 | 9.4 | 0.0 | 0.0 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.4 | 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: P632048
 CATALOG NUMBER: GWS-SA2B-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |
| 2.5° | 571.4 | 568.7 | 558.5 | 544.7 | 531.4 | 519.6 | 507.4 | 492.8 | 482.2 | 470.0 | 466.1 |
| 5° | 635.1 | 617.8 | 589.9 | 560.8 | 534.1 | 511.3 | 489.3 | 465.7 | 448.4 | 431.1 | 425.2 |
| 7.5° | 689.0 | 663.4 | 618.2 | 574.6 | 538.0 | 505.8 | 474.0 | 441.8 | 416.6 | 396.2 | 389.9 |
| 10° | 737.3 | 707.8 | 647.3 | 593.5 | 547.5 | 510.1 | 471.6 | 431.1 | 398.5 | 374.2 | 368.3 |
| 12.5° | 779.0 | 744.8 | 672.1 | 607.6 | 551.4 | 508.6 | 471.2 | 439.0 | 409.5 | 381.6 | 374.2 |
| 15° | 813.9 | 776.2 | 692.9 | 617.0 | 545.5 | 488.9 | 456.3 | 451.2 | 448.8 | 418.2 | 403.6 |
| 17.5° | 848.1 | 805.7 | 709.8 | 621.4 | 529.0 | 454.3 | 430.7 | 453.9 | 478.7 | 458.6 | 440.2 |
| 20° | 883.9 | 835.6 | 727.1 | 622.1 | 501.5 | 415.4 | 411.5 | 448.0 | 479.5 | 473.2 | 455.9 |
| 22.5° | 925.9 | 872.9 | 748.7 | 621.8 | 466.9 | 382.4 | 397.3 | 436.6 | 462.2 | 461.8 | 448.0 |
| 25° | 986.9 | 920.1 | 777.8 | 624.1 | 429.2 | 356.9 | 381.6 | 417.4 | 438.2 | 437.4 | 426.0 |
| 27.5° | 1052.1 | 976.3 | 815.5 | 630.0 | 396.9 | 341.9 | 363.1 | 391.1 | 409.1 | 408.3 | 398.5 |
| 30° | 1143.7 | 1041.1 | 851.7 | 630.4 | 373.8 | 334.1 | 342.7 | 362.0 | 379.3 | 377.3 | 369.8 |
| 32.5° | 1254.9 | 1114.2 | 881.9 | 608.0 | 359.2 | 326.6 | 321.5 | 331.3 | 344.7 | 341.9 | 340.0 |
| 35° | 1389.3 | 1201.1 | 907.9 | 558.9 | 336.8 | 311.7 | 297.9 | 299.9 | 309.3 | 310.9 | 310.1 |
| 37.5° | 1542.6 | 1304.4 | 940.1 | 494.0 | 306.6 | 290.0 | 271.6 | 270.0 | 275.5 | 280.6 | 284.5 |
| 40° | 1693.9 | 1420.8 | 983.7 | 428.4 | 279.0 | 262.5 | 244.8 | 240.9 | 243.3 | 252.3 | 260.6 |
| 42.5° | 1864.1 | 1555.6 | 1030.9 | 372.2 | 260.2 | 232.3 | 215.4 | 207.9 | 214.6 | 229.1 | 239.0 |
| 45° | 2109.3 | 1744.6 | 1076.9 | 327.4 | 252.3 | 205.5 | 182.8 | 182.0 | 189.4 | 208.3 | 219.3 |
| 47.5° | 2453.6 | 1989.1 | 1107.1 | 292.4 | 251.9 | 184.7 | 157.6 | 162.3 | 171.0 | 189.4 | 202.0 |
| 50° | 2789.2 | 2295.2 | 1073.7 | 265.7 | 243.7 | 171.0 | 138.7 | 148.2 | 156.8 | 172.9 | 185.9 |
| 52.5° | 2991.6 | 2459.9 | 943.6 | 240.5 | 218.1 | 164.7 | 120.3 | 136.8 | 138.3 | 152.9 | 166.6 |
| 55° | 2970.4 | 2353.4 | 722.8 | 201.6 | 180.4 | 155.6 | 101.0 | 123.4 | 124.2 | 135.2 | 147.0 |
| 57.5° | 2578.2 | 2020.5 | 496.4 | 163.5 | 135.6 | 128.5 | 83.3 | 104.1 | 111.6 | 118.3 | 126.9 |
| 60° | 1921.5 | 1474.2 | 221.3 | 132.8 | 86.1 | 86.9 | 71.1 | 78.6 | 90.0 | 97.9 | 105.3 |
| 62.5° | 1132.3 | 848.1 | 90.0 | 79.8 | 47.6 | 54.6 | 57.4 | 57.4 | 64.5 | 70.3 | 75.1 |
| 65° | 428.0 | 296.7 | 36.6 | 40.1 | 24.8 | 25.5 | 33.8 | 41.7 | 47.2 | 52.3 | 58.6 |
| 67.5° | 75.1 | 51.9 | 18.9 | 14.9 | 14.5 | 13.0 | 17.3 | 27.1 | 30.3 | 34.2 | 36.9 |
| 70° | 12.6 | 10.6 | 7.9 | 7.5 | 6.7 | 7.1 | 11.4 | 19.3 | 21.2 | 22.4 | 23.6 |
| 72.5° | 3.5 | 3.1 | 2.4 | 2.0 | 1.6 | 2.0 | 7.1 | 14.9 | 15.7 | 16.5 | 17.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 10.6 | 11.4 | 11.8 | 13.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 3.1 | 3.9 | 3.1 |
| 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: P632048

CATALOG NUMBER: GWS-SA2B-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |
| 2.5° | 463.8 | 455.9 | 451.6 | 449.2 | 449.2 | 446.1 | 442.5 | 441.4 | 446.5 | 446.5 | 455.1 |
| 5° | 417.8 | 411.5 | 404.4 | 400.1 | 393.4 | 394.6 | 390.7 | 390.3 | 395.4 | 397.7 | 406.8 |
| 7.5° | 385.9 | 378.1 | 373.8 | 371.0 | 367.5 | 365.9 | 362.4 | 361.2 | 363.9 | 367.9 | 376.5 |
| 10° | 364.7 | 363.5 | 363.1 | 365.1 | 365.1 | 363.1 | 360.0 | 358.0 | 358.8 | 366.3 | 376.1 |
| 12.5° | 370.2 | 372.6 | 373.4 | 376.5 | 378.1 | 376.5 | 374.2 | 374.9 | 380.0 | 393.8 | 408.3 |
| 15° | 394.2 | 392.2 | 391.4 | 393.0 | 394.2 | 392.6 | 391.8 | 397.7 | 415.4 | 435.1 | 451.6 |
| 17.5° | 419.7 | 407.2 | 401.7 | 401.7 | 402.4 | 401.7 | 402.4 | 413.8 | 442.5 | 462.2 | 474.4 |
| 20° | 432.7 | 409.5 | 400.9 | 398.9 | 400.5 | 400.9 | 403.6 | 416.6 | 448.0 | 461.8 | 464.5 |
| 22.5° | 428.8 | 399.7 | 389.9 | 388.3 | 389.9 | 391.4 | 394.2 | 405.2 | 434.7 | 441.8 | 440.6 |
| 25° | 409.1 | 380.4 | 372.6 | 372.6 | 376.1 | 375.7 | 376.9 | 384.8 | 409.1 | 413.5 | 411.5 |
| 27.5° | 384.4 | 357.3 | 350.6 | 354.5 | 357.6 | 356.9 | 357.3 | 363.9 | 382.0 | 383.2 | 381.2 |
| 30° | 359.2 | 335.6 | 329.3 | 334.1 | 338.4 | 337.6 | 338.0 | 344.7 | 356.1 | 354.9 | 352.1 |
| 32.5° | 333.7 | 316.4 | 311.7 | 314.4 | 321.1 | 320.3 | 321.9 | 329.0 | 333.3 | 328.2 | 325.0 |
| 35° | 310.1 | 301.1 | 297.5 | 299.1 | 304.2 | 305.4 | 308.1 | 312.8 | 312.8 | 306.6 | 301.1 |
| 37.5° | 288.1 | 286.9 | 284.5 | 282.6 | 287.3 | 290.8 | 294.8 | 300.3 | 292.4 | 283.4 | 278.3 |
| 40° | 267.6 | 272.8 | 269.6 | 264.5 | 267.3 | 272.4 | 280.2 | 284.5 | 275.1 | 266.1 | 257.4 |
| 42.5° | 248.8 | 257.4 | 256.2 | 250.0 | 252.3 | 257.0 | 266.1 | 269.6 | 258.6 | 248.4 | 240.1 |
| 45° | 230.7 | 242.9 | 243.7 | 235.8 | 238.2 | 242.9 | 253.5 | 254.7 | 240.5 | 229.5 | 223.6 |
| 47.5° | 215.0 | 228.3 | 228.7 | 222.8 | 223.6 | 230.3 | 240.1 | 240.5 | 224.4 | 214.2 | 206.7 |
| 50° | 200.0 | 215.4 | 216.6 | 211.4 | 212.2 | 220.1 | 228.3 | 226.8 | 209.5 | 198.9 | 192.2 |
| 52.5° | 182.0 | 202.8 | 205.5 | 203.2 | 206.3 | 212.6 | 217.7 | 212.2 | 192.2 | 181.6 | 175.7 |
| 55° | 162.3 | 189.4 | 195.3 | 193.8 | 197.3 | 202.4 | 203.6 | 200.0 | 174.9 | 164.3 | 158.8 |
| 57.5° | 139.5 | 156.0 | 166.2 | 163.1 | 165.9 | 171.0 | 174.5 | 171.7 | 152.9 | 144.6 | 139.9 |
| 60° | 115.5 | 126.6 | 128.9 | 123.8 | 121.4 | 130.5 | 138.7 | 135.2 | 119.1 | 114.0 | 108.5 |
| 62.5° | 84.5 | 97.1 | 98.6 | 92.0 | 89.2 | 99.0 | 106.1 | 102.6 | 84.9 | 79.4 | 75.1 |
| 65° | 67.6 | 79.4 | 82.5 | 76.2 | 74.7 | 82.1 | 86.5 | 77.8 | 65.2 | 59.3 | 54.6 |
| 67.5° | 44.4 | 53.8 | 62.1 | 61.7 | 58.6 | 60.9 | 57.8 | 50.7 | 41.7 | 38.5 | 35.4 |
| 70° | 27.5 | 33.0 | 38.1 | 40.1 | 39.7 | 38.9 | 34.6 | 29.5 | 26.7 | 25.5 | 24.0 |
| 72.5° | 21.2 | 26.7 | 30.7 | 31.8 | 32.2 | 31.0 | 27.5 | 22.8 | 20.0 | 18.5 | 17.3 |
| 75° | 15.7 | 20.0 | 23.2 | 24.8 | 25.5 | 24.8 | 21.2 | 18.1 | 15.3 | 14.1 | 13.0 |
| 77.5° | 5.5 | 6.7 | 8.3 | 9.0 | 8.6 | 8.3 | 7.5 | 7.5 | 5.9 | 5.5 | 4.7 |
| 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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| 32.5° | 314.0 | 304.6 | 305.0 | 306.6 | 329.7 | 580.5 | 884.3 | 1137.8 | 1225.4 | 1241.1 |
| 35° | 289.7 | 286.9 | 294.8 | 302.6 | 308.1 | 552.2 | 916.9 | 1235.2 | 1354.7 | 1370.8 |
| 37.5° | 268.8 | 271.2 | 281.0 | 288.9 | 284.5 | 512.1 | 960.1 | 1357.1 | 1499.4 | 1513.1 |
| 40° | 248.8 | 254.7 | 266.1 | 269.6 | 266.5 | 465.3 | 1012.0 | 1474.6 | 1624.7 | 1643.6 |
| 42.5° | 230.3 | 234.6 | 250.7 | 251.5 | 261.4 | 417.8 | 1061.9 | 1601.1 | 1769.0 | 1778.8 |
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| 47.5° | 200.8 | 200.0 | 204.0 | 227.2 | 270.8 | 316.4 | 1159.0 | 2016.6 | 2231.2 | 2255.5 |
| 50° | 187.1 | 188.3 | 176.1 | 222.8 | 255.9 | 279.0 | 1181.0 | 2244.9 | 2479.9 | 2490.1 |
| 52.5° | 174.9 | 170.6 | 149.3 | 208.7 | 224.0 | 243.7 | 1118.5 | 2348.7 | 2634.0 | 2663.1 |
| 55° | 157.6 | 133.6 | 123.0 | 169.4 | 176.9 | 212.6 | 916.1 | 2288.5 | 2647.4 | 2698.8 |
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| 65° | 49.5 | 42.1 | 34.2 | 28.7 | 28.3 | 30.7 | 65.2 | 294.8 | 358.4 | 404.4 |
| 67.5° | 32.6 | 25.5 | 18.1 | 18.1 | 20.4 | 20.4 | 24.8 | 48.7 | 68.4 | 62.5 |
| 70° | 21.2 | 17.7 | 11.4 | 11.0 | 13.4 | 13.4 | 12.6 | 13.4 | 14.1 | 14.1 |
| 72.5° | 15.7 | 13.4 | 6.7 | 5.9 | 7.5 | 7.9 | 7.1 | 6.7 | 6.7 | 6.7 |
| 75° | 11.8 | 9.4 | 3.9 | 2.8 | 3.5 | 4.7 | 3.9 | 2.8 | 2.8 | 2.4 |
| 77.5° | 4.7 | 3.5 | 1.6 | 1.2 | 2.0 | 2.8 | 2.4 | 1.2 | 0.8 | 0.8 |
| 80° | 0.4 | 0.8 | 0.8 | 0.8 | 1.2 | 1.6 | 2.0 | 0.8 | 0.4 | 0.4 |
| 82.5° | 0.0 | 0.4 | 0.4 | 0.4 | 0.8 | 1.2 | 1.6 | 0.8 | 0.4 | 0.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.2 | 0.8 | 0.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 0.8 | 0.4 | 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)