

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: P633046

Luminaire Tested: GWS-SA2D-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9202.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

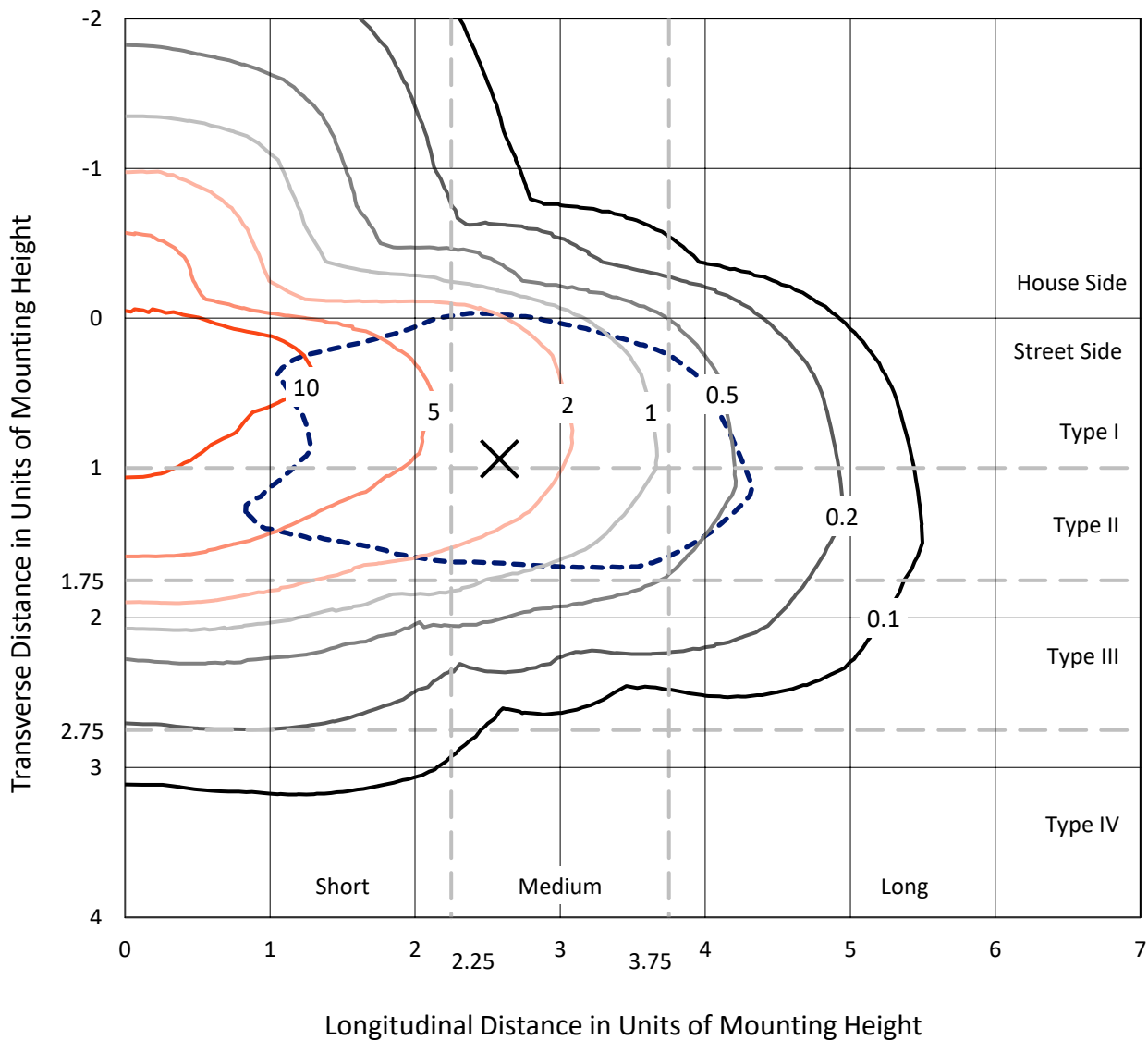
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

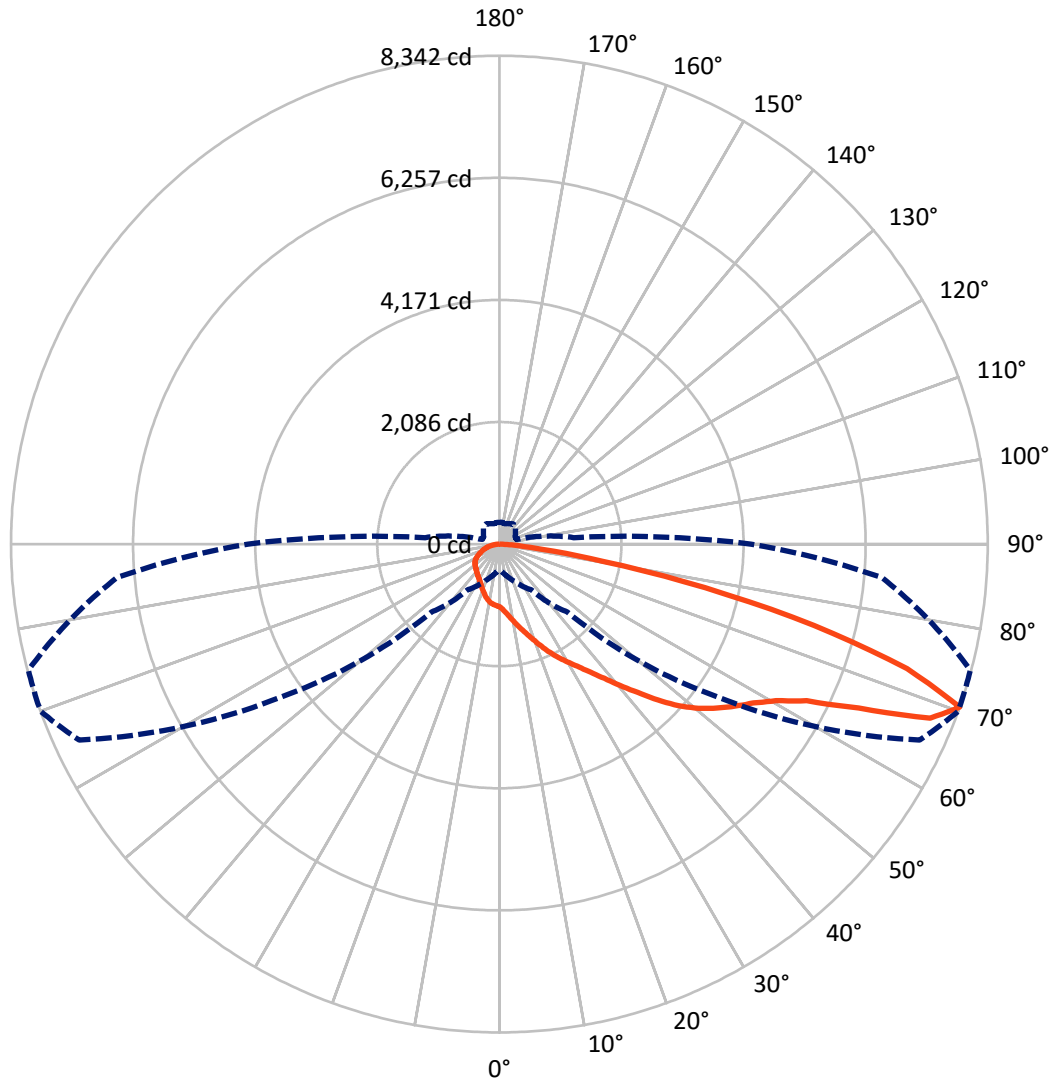
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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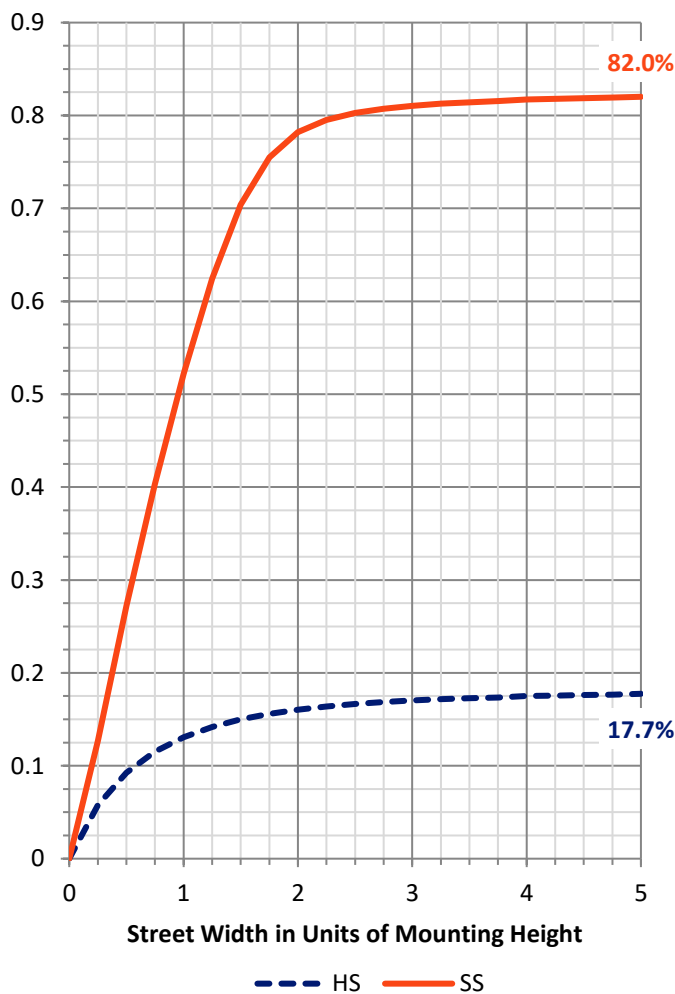
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1649.1 | 0.0 | 1649.1 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 7553.5 | 0.0 | 7553.5 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 9202.6 | 0.0 | 9202.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.1 | 1.2 |
| 10°-20° | 354.8 | 3.9 |
| 20°-30° | 628.6 | 6.8 |
| 30°-40° | 946.1 | 10.3 |
| 40°-50° | 1431.3 | 15.6 |
| 50°-60° | 2050.4 | 22.3 |
| 60°-70° | 2266.5 | 24.6 |
| 70°-80° | 1279.0 | 13.9 |
| 80°-90° | 136.8 | 1.5 |
| 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° | 9202.6 | 100.0 |
| 0°-180° | 9202.6 | 100.0 |

Coefficient of Utilization



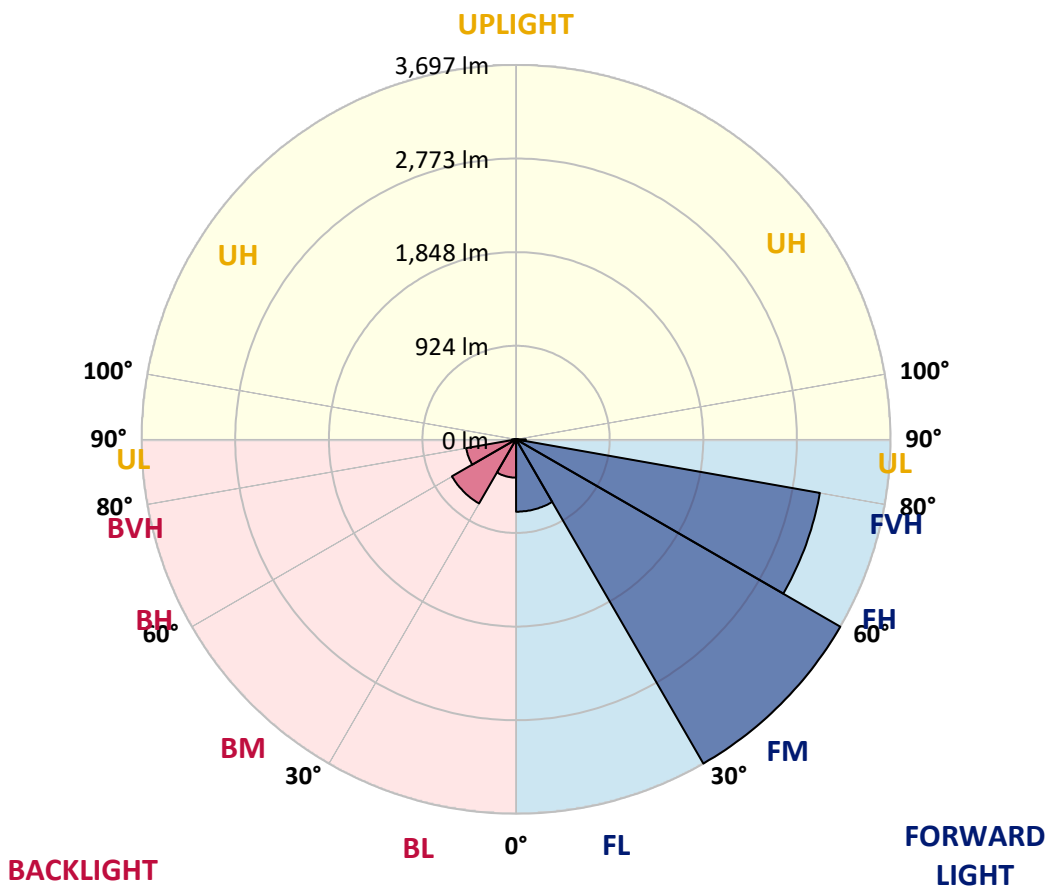
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 714.4 | 7.8 | | | |
| FM (30°-60°) | 3696.7 | 40.2 | | | |
| FH (60°-80°) | 3045.7 | 33.1 | | | G2/5000 |
| FVH (80°-90°) | 96.7 | 1.1 | | | G1/100 |
| BL (0°-30°) | 378.1 | 4.1 | B1/500 | | |
| BM (30°-60°) | 731.1 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 499.8 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 40.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 |
| 2.5° | 1188.9 | 1186.9 | 1188.2 | 1186.9 | 1179.6 | 1161.7 | 1147.0 | 1128.4 | 1115.8 | 1108.5 | 1091.2 |
| 5° | 1328.6 | 1326.6 | 1321.9 | 1315.3 | 1302.0 | 1277.4 | 1240.8 | 1200.2 | 1175.6 | 1157.0 | 1120.4 |
| 7.5° | 1429.0 | 1429.0 | 1428.3 | 1420.3 | 1411.0 | 1385.1 | 1341.8 | 1288.7 | 1252.7 | 1220.8 | 1161.0 |
| 10° | 1480.2 | 1483.5 | 1488.1 | 1499.4 | 1497.4 | 1483.5 | 1442.9 | 1385.7 | 1340.5 | 1303.3 | 1214.2 |
| 12.5° | 1508.1 | 1510.1 | 1518.1 | 1541.3 | 1565.3 | 1568.6 | 1544.7 | 1484.8 | 1435.6 | 1385.7 | 1273.4 |
| 15° | 1544.0 | 1544.7 | 1555.3 | 1583.2 | 1618.5 | 1653.7 | 1647.7 | 1587.9 | 1537.3 | 1482.2 | 1339.2 |
| 17.5° | 1571.9 | 1576.6 | 1595.9 | 1628.4 | 1672.3 | 1720.9 | 1750.1 | 1712.9 | 1650.4 | 1587.2 | 1411.0 |
| 20° | 1581.9 | 1585.2 | 1610.5 | 1660.4 | 1720.2 | 1788.7 | 1853.9 | 1843.9 | 1780.7 | 1706.2 | 1492.1 |
| 22.5° | 1617.8 | 1617.8 | 1636.4 | 1678.3 | 1748.8 | 1848.5 | 1954.3 | 1980.2 | 1924.3 | 1837.2 | 1579.2 |
| 25° | 1696.9 | 1694.3 | 1702.9 | 1720.2 | 1773.4 | 1896.4 | 2053.3 | 2131.1 | 2068.6 | 1970.9 | 1666.3 |
| 27.5° | 1805.3 | 1804.0 | 1803.3 | 1806.0 | 1823.9 | 1938.3 | 2137.1 | 2272.1 | 2209.6 | 2099.2 | 1744.1 |
| 30° | 1923.0 | 1919.0 | 1927.7 | 1919.7 | 1915.7 | 1988.2 | 2208.3 | 2398.4 | 2349.9 | 2226.2 | 1808.6 |
| 32.5° | 2083.3 | 2075.9 | 2073.9 | 2048.0 | 2032.1 | 2066.0 | 2265.5 | 2542.1 | 2503.5 | 2363.2 | 1881.1 |
| 35° | 2294.7 | 2288.1 | 2254.1 | 2212.9 | 2165.7 | 2181.7 | 2336.6 | 2682.4 | 2685.0 | 2534.8 | 1976.2 |
| 37.5° | 2508.2 | 2509.5 | 2482.9 | 2385.8 | 2337.3 | 2328.0 | 2445.0 | 2853.3 | 2910.4 | 2739.6 | 2099.2 |
| 40° | 2685.7 | 2693.7 | 2693.7 | 2591.3 | 2518.8 | 2510.1 | 2597.3 | 3056.1 | 3169.8 | 2990.9 | 2254.8 |
| 42.5° | 2820.7 | 2828.0 | 2851.3 | 2777.5 | 2701.0 | 2730.9 | 2782.1 | 3259.5 | 3463.7 | 3301.4 | 2451.6 |
| 45° | 2969.0 | 2974.9 | 2987.6 | 2945.0 | 2900.5 | 2980.3 | 2991.6 | 3502.9 | 3800.1 | 3649.9 | 2680.4 |
| 47.5° | 3165.8 | 3160.5 | 3161.8 | 3130.5 | 3096.0 | 3225.0 | 3222.3 | 3707.7 | 4125.3 | 4031.5 | 2928.4 |
| 50° | 3410.5 | 3420.5 | 3411.1 | 3349.3 | 3308.7 | 3426.4 | 3441.7 | 3934.5 | 4411.2 | 4409.2 | 3178.4 |
| 52.5° | 3645.9 | 3649.9 | 3699.1 | 3701.7 | 3618.6 | 3594.0 | 3633.9 | 4163.2 | 4652.6 | 4755.0 | 3418.5 |
| 55° | 3657.8 | 3673.1 | 3820.7 | 3927.1 | 4061.5 | 3864.0 | 3828.1 | 4381.3 | 4886.0 | 5093.4 | 3667.8 |
| 57.5° | 3403.2 | 3427.8 | 3678.5 | 3907.9 | 4281.6 | 4327.4 | 4160.5 | 4663.2 | 5119.4 | 5426.6 | 3956.4 |
| 60° | 2859.2 | 2910.4 | 3250.9 | 3602.0 | 4182.5 | 4660.6 | 4840.8 | 5046.2 | 5425.9 | 5767.0 | 4306.8 |
| 62.5° | 1825.9 | 1845.9 | 2323.3 | 2911.1 | 3736.3 | 4628.0 | 5581.5 | 5721.1 | 5892.7 | 6210.5 | 4846.8 |
| 65° | 914.3 | 978.1 | 1258.1 | 1737.5 | 2694.3 | 4078.1 | 5955.9 | 6957.3 | 6747.1 | 6969.9 | 5721.8 |
| 67.5° | 620.4 | 641.0 | 782.6 | 1044.0 | 1579.9 | 2889.2 | 5723.8 | 7998.6 | 7936.7 | 7973.3 | 6654.7 |
| 70° | 457.5 | 470.8 | 582.5 | 739.4 | 955.5 | 1640.4 | 4556.8 | 7920.1 | 8342.3 | 8329.0 | 6557.0 |
| 72.5° | 333.8 | 340.4 | 424.9 | 564.5 | 708.2 | 848.5 | 2782.8 | 6398.1 | 7282.4 | 7666.1 | 5734.4 |
| 75° | 242.7 | 250.7 | 295.2 | 422.2 | 550.6 | 529.3 | 1373.8 | 4621.3 | 5553.6 | 6291.7 | 4671.9 |
| 77.5° | 180.9 | 190.8 | 211.5 | 264.6 | 385.7 | 379.0 | 593.8 | 3000.9 | 3592.0 | 4109.3 | 2838.0 |
| 80° | 130.3 | 132.3 | 144.3 | 169.6 | 244.7 | 222.1 | 282.6 | 1564.6 | 1794.0 | 1965.6 | 1112.4 |
| 82.5° | 79.1 | 81.1 | 96.4 | 104.4 | 151.6 | 139.6 | 147.0 | 506.7 | 726.1 | 770.7 | 415.6 |
| 85° | 23.3 | 24.6 | 43.9 | 47.9 | 63.2 | 59.8 | 59.2 | 206.1 | 246.0 | 314.5 | 163.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 4.0 | 7.3 | 36.6 | 55.2 | 76.5 | 39.9 |
| 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-SA2D-830-U-T2-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 |
| 2.5° | 1084.5 | 1069.2 | 1061.2 | 1047.3 | 1037.3 | 1027.3 | 1017.4 | 1008.0 | 1004.1 | 998.1 | 999.4 |
| 5° | 1103.8 | 1079.9 | 1055.9 | 1028.7 | 1005.4 | 986.1 | 968.8 | 953.5 | 946.9 | 940.9 | 943.6 |
| 7.5° | 1133.1 | 1097.2 | 1051.3 | 1001.4 | 964.8 | 938.2 | 920.3 | 909.6 | 906.3 | 901.7 | 901.7 |
| 10° | 1170.3 | 1116.4 | 1036.0 | 964.8 | 920.9 | 899.7 | 891.7 | 891.0 | 894.3 | 895.0 | 893.7 |
| 12.5° | 1211.5 | 1135.1 | 1013.4 | 921.6 | 884.4 | 877.7 | 883.7 | 895.0 | 906.3 | 912.3 | 911.0 |
| 15° | 1254.1 | 1147.0 | 974.8 | 880.4 | 857.8 | 866.4 | 885.7 | 908.3 | 930.3 | 941.6 | 940.9 |
| 17.5° | 1294.0 | 1149.7 | 924.9 | 840.5 | 834.5 | 856.4 | 889.7 | 924.9 | 954.9 | 970.8 | 971.5 |
| 20° | 1338.5 | 1145.0 | 873.7 | 804.6 | 811.2 | 847.1 | 891.0 | 933.6 | 968.8 | 984.8 | 988.8 |
| 22.5° | 1379.1 | 1129.1 | 823.9 | 770.7 | 791.3 | 835.8 | 880.4 | 920.3 | 951.5 | 966.8 | 972.1 |
| 25° | 1415.7 | 1098.5 | 769.3 | 742.1 | 776.0 | 819.9 | 853.8 | 881.7 | 903.7 | 913.0 | 920.3 |
| 27.5° | 1435.6 | 1052.6 | 728.1 | 719.5 | 761.4 | 797.3 | 815.9 | 824.5 | 831.8 | 829.2 | 834.5 |
| 30° | 1439.6 | 995.4 | 692.2 | 701.5 | 739.4 | 766.0 | 770.0 | 761.4 | 748.7 | 728.1 | 732.8 |
| 32.5° | 1435.6 | 929.6 | 662.3 | 682.2 | 714.8 | 730.8 | 725.4 | 702.8 | 672.3 | 640.3 | 642.3 |
| 35° | 1436.9 | 863.1 | 637.7 | 661.0 | 686.2 | 694.9 | 681.6 | 650.3 | 617.7 | 588.5 | 587.1 |
| 37.5° | 1451.6 | 807.2 | 617.1 | 640.3 | 658.3 | 659.6 | 645.0 | 612.4 | 595.8 | 573.8 | 571.2 |
| 40° | 1492.1 | 766.0 | 598.4 | 619.7 | 631.0 | 630.4 | 613.7 | 590.5 | 601.8 | 594.5 | 592.5 |
| 42.5° | 1558.6 | 740.7 | 583.2 | 597.8 | 605.8 | 607.1 | 593.8 | 579.2 | 603.8 | 594.5 | 591.1 |
| 45° | 1665.7 | 739.4 | 572.5 | 575.8 | 588.5 | 597.8 | 588.5 | 571.8 | 581.2 | 535.9 | 527.3 |
| 47.5° | 1792.7 | 762.0 | 564.5 | 556.6 | 578.5 | 595.1 | 580.5 | 553.9 | 534.6 | 493.4 | 487.4 |
| 50° | 1945.6 | 807.9 | 557.2 | 535.9 | 563.9 | 585.1 | 570.5 | 533.9 | 504.7 | 482.7 | 479.4 |
| 52.5° | 2127.1 | 868.4 | 547.9 | 512.7 | 541.9 | 579.8 | 570.5 | 532.0 | 493.4 | 473.4 | 470.1 |
| 55° | 2317.3 | 938.2 | 537.3 | 484.7 | 517.3 | 581.2 | 575.2 | 518.0 | 484.7 | 474.1 | 471.4 |
| 57.5° | 2553.4 | 1022.0 | 518.0 | 452.2 | 495.4 | 569.2 | 556.6 | 510.0 | 478.8 | 470.1 | 467.5 |
| 60° | 2859.9 | 1146.4 | 481.4 | 418.9 | 470.1 | 547.9 | 539.9 | 496.7 | 462.8 | 455.5 | 453.5 |
| 62.5° | 3345.3 | 1357.1 | 436.9 | 387.0 | 440.2 | 503.4 | 515.3 | 471.4 | 442.9 | 442.2 | 441.5 |
| 65° | 4136.6 | 1610.5 | 384.3 | 358.4 | 408.9 | 466.8 | 482.7 | 445.5 | 422.2 | 429.6 | 428.9 |
| 67.5° | 4691.2 | 1632.4 | 341.1 | 328.5 | 372.4 | 426.9 | 450.2 | 418.9 | 393.6 | 407.6 | 406.9 |
| 70° | 4296.8 | 1273.4 | 303.9 | 297.2 | 333.1 | 383.7 | 414.9 | 385.7 | 360.4 | 373.7 | 371.0 |
| 72.5° | 3623.9 | 976.1 | 268.6 | 264.6 | 293.2 | 338.5 | 369.7 | 352.4 | 325.8 | 325.8 | 319.8 |
| 75° | 2912.4 | 805.2 | 231.4 | 229.4 | 248.7 | 292.6 | 327.8 | 298.6 | 274.0 | 272.6 | 268.6 |
| 77.5° | 1670.3 | 528.0 | 194.2 | 192.8 | 198.8 | 244.7 | 254.7 | 248.7 | 230.1 | 221.4 | 218.8 |
| 80° | 665.6 | 274.6 | 152.9 | 144.3 | 150.3 | 179.5 | 200.8 | 190.8 | 174.9 | 164.2 | 158.3 |
| 82.5° | 258.0 | 137.6 | 107.7 | 94.4 | 103.1 | 129.7 | 145.6 | 142.3 | 131.7 | 107.7 | 101.1 |
| 85° | 105.1 | 67.2 | 64.5 | 54.5 | 59.8 | 69.8 | 83.8 | 72.5 | 59.8 | 42.6 | 40.6 |
| 87.5° | 27.9 | 24.6 | 23.9 | 14.6 | 11.3 | 3.3 | 0.7 | 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)