

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: P631536

Luminaire Tested: GWS-SA1F-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4337.7 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

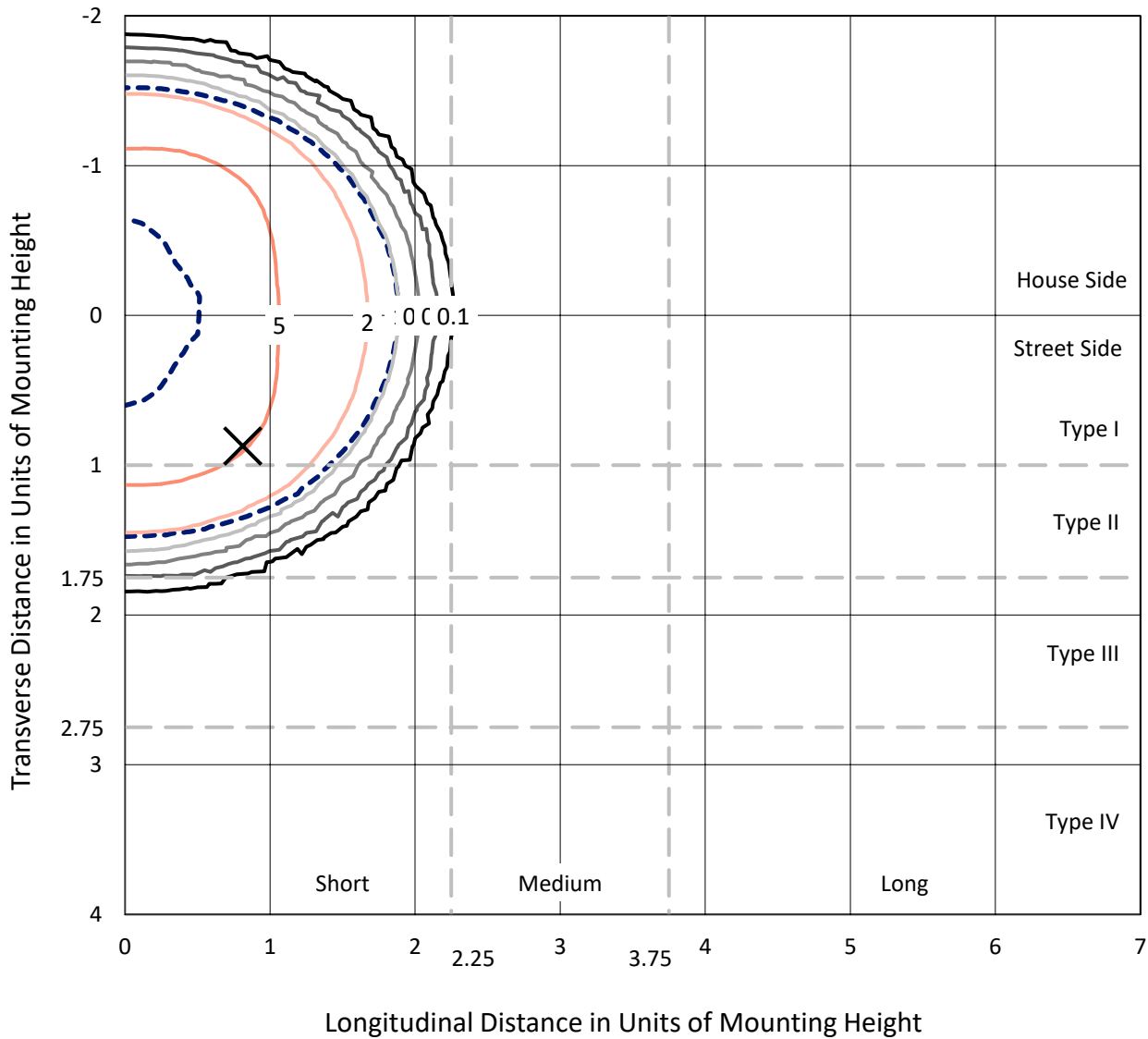
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

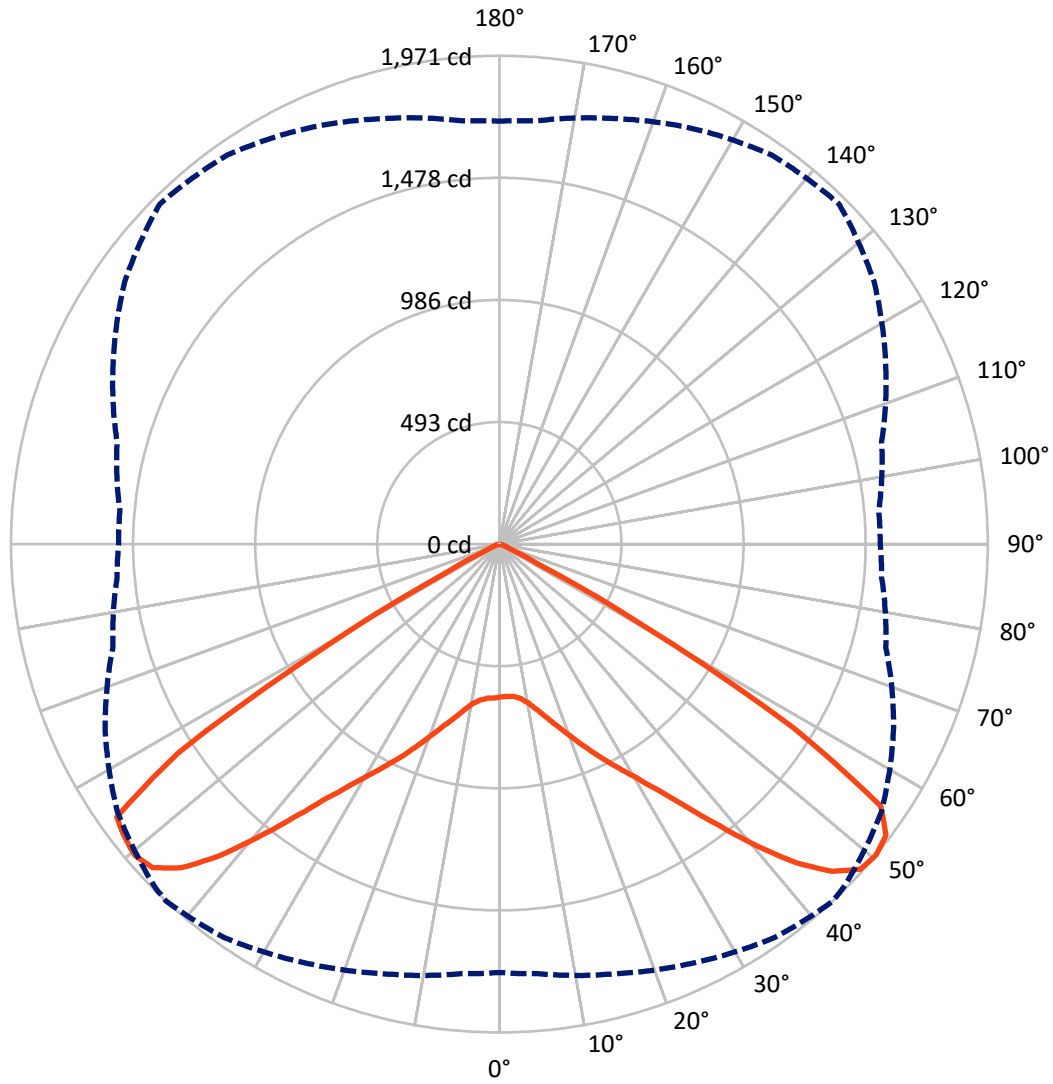
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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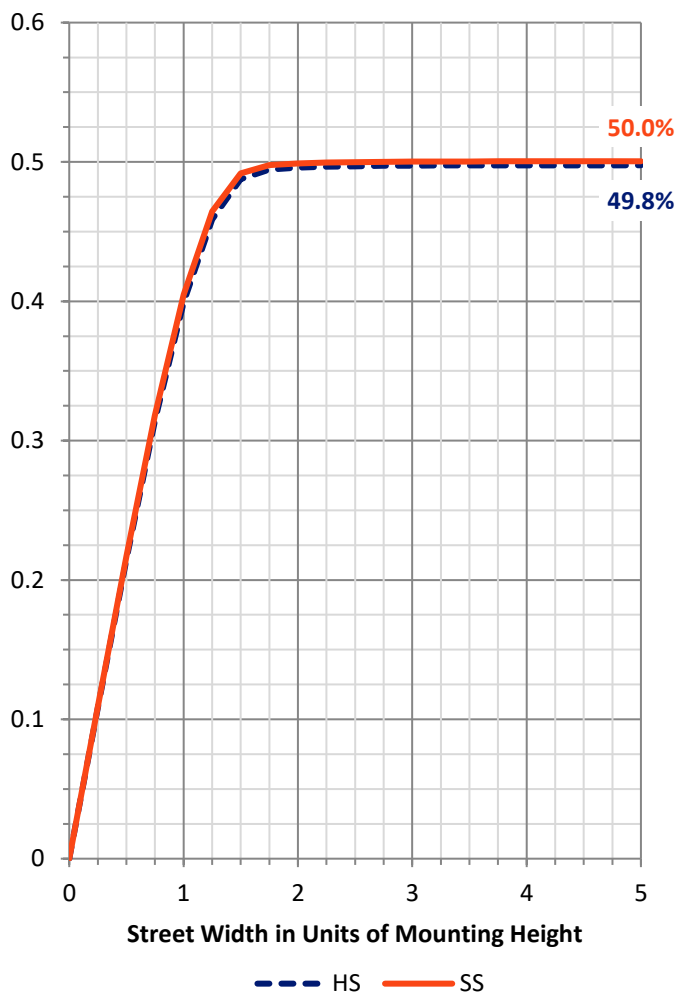
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2168.8 | 0.0 | 2168.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2168.9 | 0.0 | 2168.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4337.7 | 0.0 | 4337.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.8 | 1.4 |
| 10°-20° | 209.1 | 4.8 |
| 20°-30° | 423.0 | 9.8 |
| 30°-40° | 784.8 | 18.1 |
| 40°-50° | 1302.8 | 30.0 |
| 50°-60° | 1329.5 | 30.7 |
| 60°-70° | 218.0 | 5.0 |
| 70°-80° | 9.6 | 0.2 |
| 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° | 4337.7 | 100.0 |
| 0°-180° | 4337.7 | 100.0 |

Coefficient of Utilization



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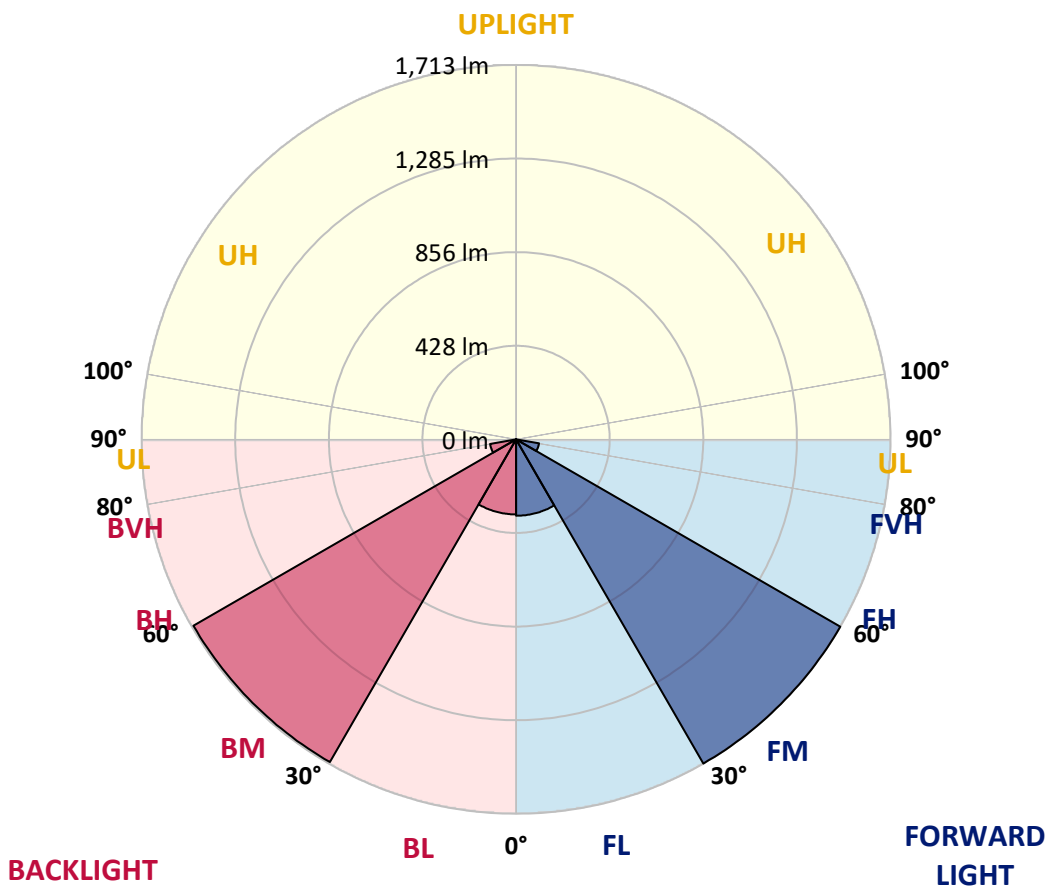
CATALOG NUMBER: GWS-SA1F-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 349.5 | 8.1 | | | |
| FM (30°-60°) | 1712.7 | 39.5 | | | |
| FH (60°-80°) | 106.7 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 343.4 | 7.9 | B1/500 | | |
| BM (30°-60°) | 1704.4 | 39.3 | B2/2500 | | |
| BH (60°-80°) | 120.9 | 2.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 |
| 2.5° | 605.5 | 606.9 | 608.8 | 610.7 | 613.1 | 615.5 | 617.0 | 621.3 | 620.3 | 624.2 | 624.2 |
| 5° | 598.7 | 600.2 | 602.6 | 606.9 | 612.2 | 617.4 | 621.3 | 629.9 | 634.7 | 642.4 | 645.3 |
| 7.5° | 602.1 | 604.0 | 606.9 | 613.6 | 621.8 | 629.9 | 634.2 | 648.2 | 657.7 | 672.1 | 680.3 |
| 10° | 613.1 | 615.1 | 619.8 | 631.4 | 641.9 | 653.4 | 658.7 | 676.5 | 691.8 | 711.5 | 723.0 |
| 12.5° | 625.6 | 628.0 | 637.6 | 654.9 | 673.1 | 688.5 | 695.6 | 715.3 | 731.2 | 753.2 | 771.5 |
| 15° | 638.6 | 642.4 | 657.3 | 682.7 | 708.6 | 729.2 | 736.9 | 758.0 | 773.9 | 797.4 | 818.0 |
| 17.5° | 668.8 | 673.1 | 689.9 | 717.2 | 752.7 | 776.7 | 783.4 | 805.5 | 817.5 | 833.3 | 854.9 |
| 20° | 706.7 | 714.8 | 735.5 | 768.6 | 807.4 | 830.5 | 835.3 | 856.8 | 855.9 | 862.6 | 881.3 |
| 22.5° | 753.7 | 759.5 | 782.0 | 821.3 | 865.0 | 890.4 | 901.5 | 910.6 | 898.6 | 892.8 | 904.8 |
| 25° | 802.6 | 809.4 | 833.8 | 877.0 | 925.9 | 955.2 | 964.3 | 971.5 | 952.3 | 930.7 | 932.2 |
| 27.5° | 866.0 | 870.8 | 894.7 | 940.8 | 989.7 | 1022.8 | 1031.0 | 1043.5 | 1018.0 | 983.5 | 973.9 |
| 30° | 941.3 | 946.1 | 971.5 | 1020.0 | 1068.4 | 1096.7 | 1109.2 | 1124.6 | 1096.7 | 1053.5 | 1042.5 |
| 32.5° | 1029.6 | 1034.4 | 1067.0 | 1116.9 | 1156.7 | 1187.4 | 1199.4 | 1215.7 | 1193.6 | 1145.2 | 1132.7 |
| 35° | 1135.1 | 1138.0 | 1176.4 | 1230.6 | 1272.8 | 1302.5 | 1310.7 | 1329.9 | 1305.4 | 1257.0 | 1250.3 |
| 37.5° | 1257.4 | 1260.8 | 1302.5 | 1365.4 | 1408.6 | 1441.7 | 1454.6 | 1459.9 | 1430.2 | 1375.9 | 1370.7 |
| 40° | 1391.8 | 1402.8 | 1443.6 | 1511.2 | 1559.7 | 1601.4 | 1612.9 | 1595.2 | 1553.5 | 1479.6 | 1470.0 |
| 42.5° | 1531.9 | 1541.5 | 1587.0 | 1660.4 | 1716.6 | 1759.3 | 1759.8 | 1721.4 | 1650.4 | 1548.2 | 1533.8 |
| 45° | 1648.4 | 1652.3 | 1711.3 | 1785.2 | 1854.3 | 1884.5 | 1887.4 | 1817.8 | 1710.8 | 1588.0 | 1557.3 |
| 47.5° | 1728.6 | 1734.8 | 1786.1 | 1857.1 | 1933.4 | 1960.8 | 1955.0 | 1868.2 | 1739.6 | 1613.9 | 1563.1 |
| 50° | 1729.5 | 1740.1 | 1795.7 | 1864.3 | 1938.2 | 1971.3 | 1963.2 | 1882.6 | 1755.9 | 1614.9 | 1549.1 |
| 52.5° | 1576.5 | 1593.8 | 1684.4 | 1783.7 | 1897.0 | 1953.6 | 1955.5 | 1901.3 | 1749.7 | 1599.5 | 1536.7 |
| 55° | 1189.3 | 1208.0 | 1322.2 | 1491.6 | 1710.3 | 1868.2 | 1895.5 | 1879.2 | 1742.5 | 1606.2 | 1558.7 |
| 57.5° | 629.4 | 615.1 | 678.4 | 846.3 | 1121.2 | 1400.4 | 1480.5 | 1611.0 | 1662.4 | 1614.4 | 1599.5 |
| 60° | 137.2 | 146.3 | 194.8 | 262.4 | 437.5 | 658.7 | 736.9 | 960.5 | 1226.3 | 1344.3 | 1429.7 |
| 62.5° | 59.0 | 58.1 | 60.4 | 68.6 | 100.3 | 167.0 | 203.9 | 333.0 | 525.3 | 721.6 | 854.4 |
| 65° | 48.5 | 48.9 | 50.9 | 50.9 | 47.5 | 48.0 | 50.4 | 76.3 | 122.8 | 172.2 | 231.2 |
| 67.5° | 36.5 | 36.9 | 40.3 | 41.3 | 38.9 | 34.5 | 34.1 | 28.8 | 30.2 | 37.9 | 39.3 |
| 70° | 23.0 | 23.0 | 24.9 | 25.9 | 25.9 | 24.0 | 23.5 | 20.6 | 20.1 | 23.0 | 25.9 |
| 72.5° | 12.5 | 12.5 | 13.4 | 13.9 | 13.4 | 13.0 | 13.0 | 12.5 | 12.0 | 13.9 | 17.8 |
| 75° | 5.3 | 5.3 | 5.8 | 5.8 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 6.2 | 9.6 |
| 77.5° | 1.0 | 1.4 | 1.9 | 1.4 | 1.0 | 1.0 | 1.0 | 1.4 | 1.4 | 1.9 | 2.9 |
| 80° | 0.5 | 0.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 | 617.0 |
| 2.5° | 627.5 | 622.2 | 624.2 | 625.1 | 623.7 | 622.7 | 617.4 | 616.0 | 613.6 | 609.8 | 608.8 |
| 5° | 648.6 | 644.3 | 643.8 | 641.0 | 634.2 | 626.1 | 616.0 | 611.7 | 606.9 | 602.1 | 601.1 |
| 7.5° | 684.1 | 678.9 | 675.5 | 665.9 | 650.6 | 637.6 | 620.8 | 611.7 | 605.5 | 599.2 | 597.8 |
| 10° | 729.7 | 723.5 | 713.9 | 696.1 | 675.5 | 656.8 | 637.1 | 625.1 | 615.5 | 606.9 | 606.4 |
| 12.5° | 778.2 | 771.5 | 754.2 | 731.6 | 706.7 | 689.4 | 664.5 | 647.7 | 633.3 | 620.3 | 618.9 |
| 15° | 829.0 | 820.9 | 797.4 | 770.5 | 747.5 | 729.7 | 702.4 | 675.5 | 653.4 | 634.7 | 632.8 |
| 17.5° | 867.9 | 857.8 | 830.0 | 809.8 | 791.1 | 772.9 | 742.2 | 706.7 | 677.4 | 654.9 | 649.6 |
| 20° | 892.4 | 882.8 | 856.4 | 845.3 | 836.7 | 823.7 | 787.3 | 750.3 | 717.7 | 689.9 | 685.1 |
| 22.5° | 915.9 | 904.3 | 881.3 | 881.3 | 888.0 | 882.8 | 843.4 | 801.2 | 762.8 | 730.7 | 723.5 |
| 25° | 942.2 | 933.1 | 916.8 | 930.3 | 947.0 | 946.6 | 906.3 | 853.5 | 809.4 | 773.4 | 766.2 |
| 27.5° | 980.6 | 971.5 | 965.8 | 991.2 | 1012.3 | 1010.9 | 966.7 | 909.6 | 863.1 | 827.6 | 820.9 |
| 30° | 1048.3 | 1039.6 | 1033.4 | 1064.1 | 1091.0 | 1080.9 | 1032.4 | 977.3 | 930.3 | 890.0 | 885.2 |
| 32.5° | 1138.5 | 1129.4 | 1121.2 | 1151.9 | 1175.9 | 1162.9 | 1116.9 | 1065.1 | 1010.9 | 971.5 | 961.9 |
| 35° | 1257.0 | 1237.8 | 1229.6 | 1266.1 | 1276.2 | 1261.8 | 1217.6 | 1172.0 | 1114.5 | 1069.4 | 1063.1 |
| 37.5° | 1379.3 | 1356.8 | 1351.0 | 1382.7 | 1399.0 | 1393.7 | 1341.9 | 1294.4 | 1232.0 | 1182.1 | 1174.9 |
| 40° | 1483.9 | 1463.3 | 1453.2 | 1502.6 | 1539.5 | 1542.9 | 1496.4 | 1438.3 | 1364.9 | 1313.1 | 1300.1 |
| 42.5° | 1545.3 | 1527.6 | 1525.2 | 1601.9 | 1662.4 | 1705.5 | 1649.9 | 1589.9 | 1512.7 | 1454.1 | 1443.6 |
| 45° | 1559.2 | 1547.7 | 1567.9 | 1668.6 | 1762.6 | 1841.3 | 1793.8 | 1730.5 | 1647.0 | 1585.1 | 1575.0 |
| 47.5° | 1557.8 | 1553.9 | 1589.9 | 1703.1 | 1822.1 | 1919.0 | 1895.5 | 1824.0 | 1743.4 | 1678.7 | 1669.1 |
| 50° | 1537.1 | 1537.6 | 1597.6 | 1720.4 | 1846.1 | 1940.1 | 1916.6 | 1850.4 | 1778.5 | 1714.7 | 1707.0 |
| 52.5° | 1529.0 | 1526.1 | 1583.2 | 1715.1 | 1870.6 | 1930.5 | 1877.8 | 1803.4 | 1723.3 | 1644.6 | 1633.1 |
| 55° | 1557.8 | 1550.6 | 1585.1 | 1710.8 | 1873.5 | 1925.3 | 1786.1 | 1624.9 | 1460.9 | 1367.8 | 1360.1 |
| 57.5° | 1601.0 | 1593.3 | 1609.6 | 1679.2 | 1723.3 | 1601.0 | 1314.5 | 1054.5 | 885.6 | 814.1 | 783.0 |
| 60° | 1429.7 | 1424.4 | 1411.9 | 1328.0 | 1138.9 | 859.2 | 585.3 | 373.3 | 268.2 | 216.9 | 216.9 |
| 62.5° | 887.1 | 879.9 | 812.2 | 603.5 | 438.5 | 253.8 | 139.6 | 87.3 | 66.2 | 61.9 | 61.4 |
| 65° | 249.0 | 247.6 | 204.9 | 144.9 | 92.1 | 57.1 | 50.4 | 51.3 | 50.4 | 48.9 | 48.5 |
| 67.5° | 37.4 | 41.3 | 41.3 | 33.6 | 32.1 | 36.0 | 42.2 | 45.1 | 42.7 | 40.3 | 39.3 |
| 70° | 24.0 | 25.9 | 24.9 | 21.6 | 23.0 | 26.9 | 30.2 | 30.7 | 29.3 | 26.9 | 26.4 |
| 72.5° | 16.8 | 18.7 | 15.4 | 13.9 | 14.4 | 15.8 | 17.3 | 17.3 | 16.8 | 15.8 | 14.9 |
| 75° | 10.1 | 10.1 | 7.2 | 6.7 | 6.7 | 7.2 | 7.2 | 8.2 | 8.2 | 7.7 | 7.2 |
| 77.5° | 3.4 | 3.8 | 2.4 | 1.9 | 1.9 | 1.9 | 2.4 | 2.9 | 2.9 | 2.4 | 1.9 |
| 80° | 0.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 | 0.5 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 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)