

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: P634907

Luminaire Tested: GWS-SA3C-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13190.3 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

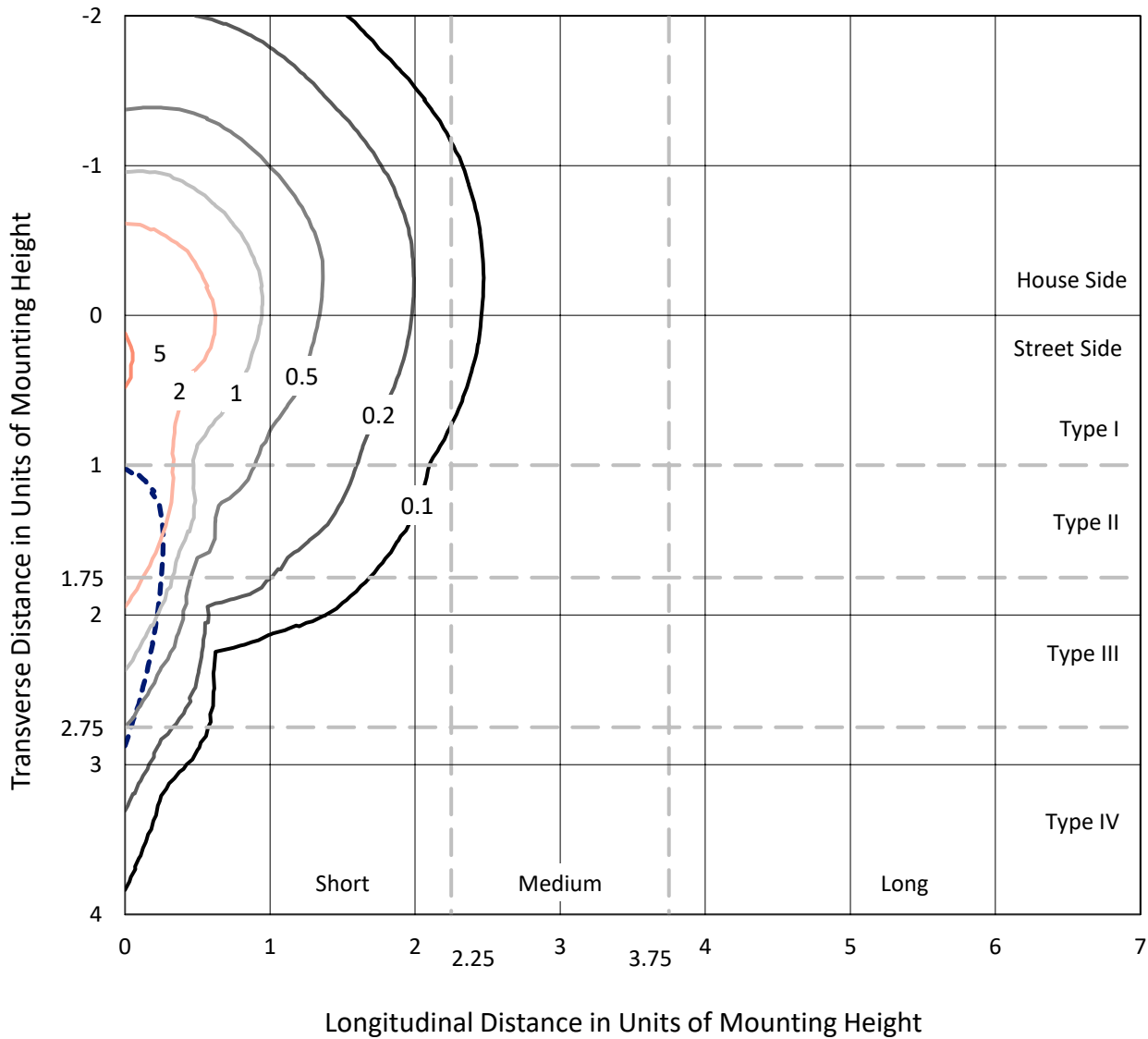
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

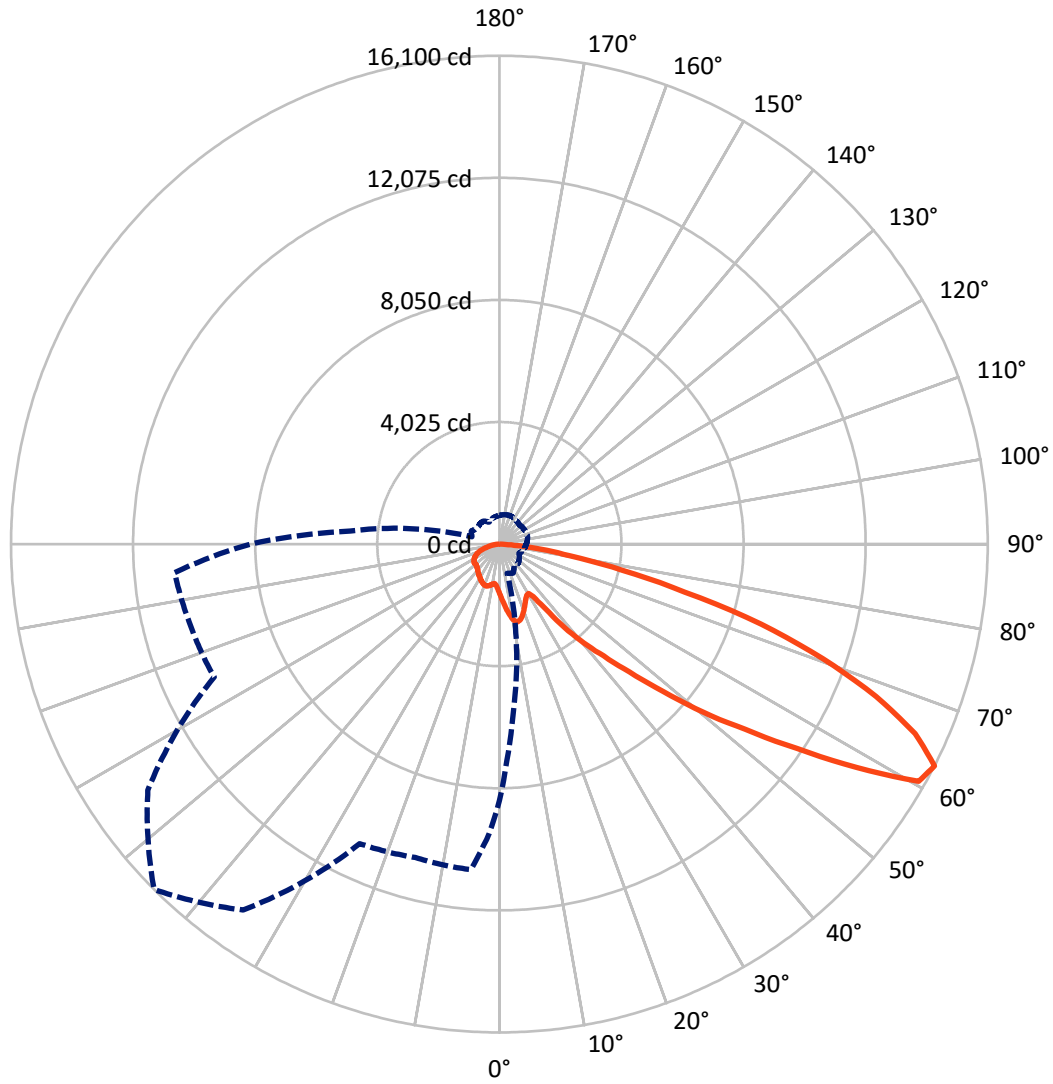
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3153.8 | 0.0 | 3153.8 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 10036.5 | 0.0 | 10036.5 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 13190.3 | 0.0 | 13190.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.0 | 1.2 |
| 10°-20° | 526.5 | 4.0 |
| 20°-30° | 828.9 | 6.3 |
| 30°-40° | 1136.2 | 8.6 |
| 40°-50° | 1772.8 | 13.4 |
| 50°-60° | 3056.6 | 23.2 |
| 60°-70° | 3542.2 | 26.9 |
| 70°-80° | 1869.7 | 14.2 |
| 80°-90° | 295.4 | 2.2 |
| 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° | 13190.3 | 100.0 |
| 0°-180° | 13190.3 | 100.0 |

Coefficient of Utilization



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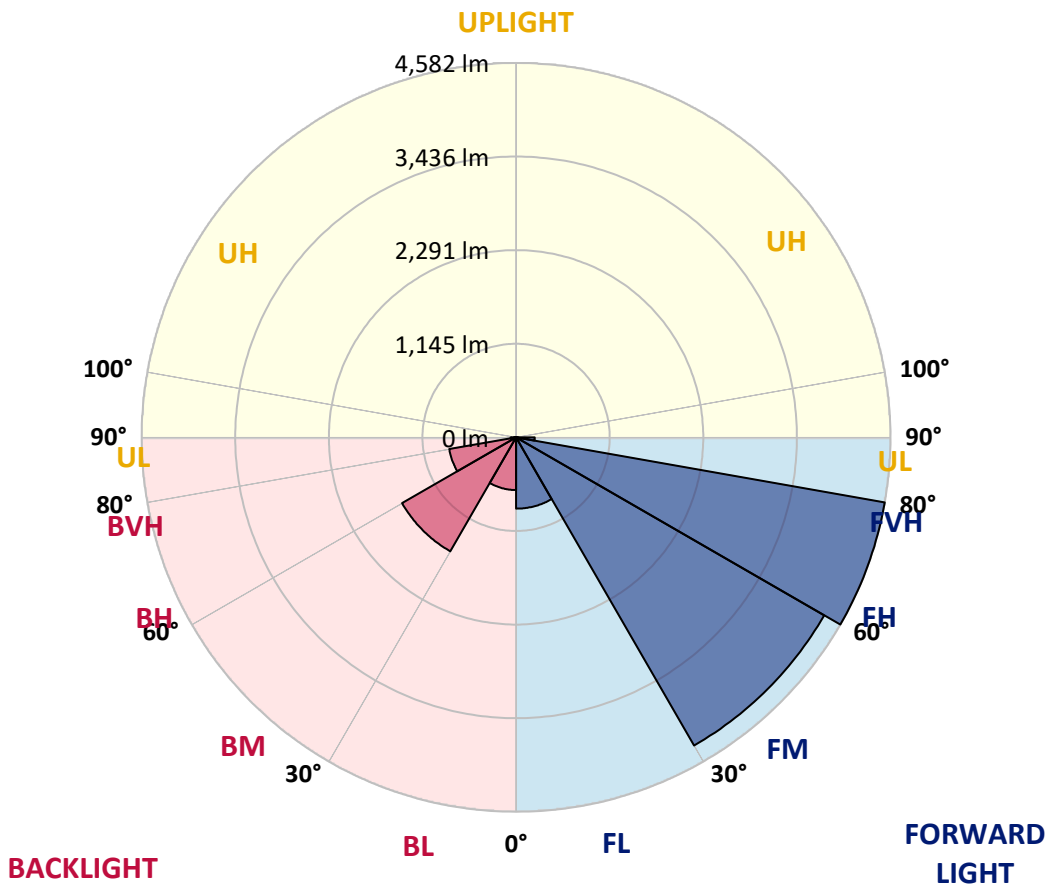
CATALOG NUMBER: GWS-SA3C-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 872.4 | 6.6 | | | |
| FM (30°-60°) | 4354.6 | 33.0 | | | |
| FH (60°-80°) | 4581.6 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 228.0 | 1.7 | | | G3/500 |
| BL (0°-30°) | 645.1 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1611.0 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 830.4 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 67.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 |
| 2.5° | 1786.8 | 1779.8 | 1769.7 | 1735.4 | 1714.2 | 1690.0 | 1664.7 | 1635.5 | 1602.2 | 1579.0 | 1555.8 |
| 5° | 1938.2 | 1927.1 | 1902.8 | 1821.1 | 1764.6 | 1703.1 | 1651.6 | 1593.1 | 1535.6 | 1496.2 | 1456.9 |
| 7.5° | 2083.4 | 2069.3 | 2032.0 | 1906.9 | 1815.1 | 1726.3 | 1648.6 | 1563.8 | 1478.1 | 1419.6 | 1373.2 |
| 10° | 2228.7 | 2199.5 | 2152.0 | 1988.6 | 1867.5 | 1764.6 | 1675.8 | 1571.9 | 1457.9 | 1378.2 | 1328.8 |
| 12.5° | 2339.7 | 2312.5 | 2261.0 | 2063.3 | 1920.0 | 1790.9 | 1691.0 | 1595.1 | 1498.3 | 1413.5 | 1363.1 |
| 15° | 2443.6 | 2408.3 | 2349.8 | 2132.9 | 1963.4 | 1789.8 | 1660.7 | 1577.0 | 1562.8 | 1541.6 | 1476.1 |
| 17.5° | 2518.3 | 2486.0 | 2425.5 | 2189.4 | 1987.6 | 1758.6 | 1577.0 | 1527.5 | 1591.1 | 1655.7 | 1593.1 |
| 20° | 2583.9 | 2546.5 | 2485.0 | 2228.7 | 1992.6 | 1689.0 | 1475.1 | 1476.1 | 1575.9 | 1664.7 | 1649.6 |
| 22.5° | 2639.4 | 2598.0 | 2543.5 | 2273.1 | 1990.6 | 1592.1 | 1386.3 | 1446.8 | 1546.7 | 1616.3 | 1618.3 |
| 25° | 2708.0 | 2673.7 | 2628.3 | 2338.7 | 1990.6 | 1493.2 | 1321.7 | 1411.5 | 1497.3 | 1555.8 | 1553.8 |
| 27.5° | 2791.7 | 2768.5 | 2731.2 | 2438.6 | 2008.8 | 1410.5 | 1285.4 | 1366.1 | 1433.7 | 1484.1 | 1483.1 |
| 30° | 2885.5 | 2864.4 | 2836.1 | 2544.5 | 2040.1 | 1348.9 | 1265.2 | 1309.6 | 1359.0 | 1399.4 | 1399.4 |
| 32.5° | 2981.4 | 2973.3 | 2943.1 | 2629.3 | 2015.8 | 1329.8 | 1248.0 | 1253.1 | 1279.3 | 1312.6 | 1309.6 |
| 35° | 3114.6 | 3106.5 | 3068.2 | 2694.9 | 1910.9 | 1302.5 | 1220.8 | 1195.6 | 1198.6 | 1219.8 | 1226.9 |
| 37.5° | 3309.3 | 3297.2 | 3240.7 | 2771.5 | 1752.5 | 1233.9 | 1176.4 | 1135.0 | 1126.0 | 1135.0 | 1148.2 |
| 40° | 3544.4 | 3526.2 | 3449.5 | 2875.5 | 1569.9 | 1141.1 | 1106.8 | 1072.5 | 1057.4 | 1060.4 | 1075.5 |
| 42.5° | 3839.0 | 3800.6 | 3690.7 | 2985.4 | 1389.3 | 1059.4 | 1029.1 | 1007.9 | 990.8 | 988.8 | 1018.0 |
| 45° | 4317.2 | 4212.3 | 4037.7 | 3083.3 | 1236.9 | 1016.0 | 959.5 | 944.4 | 930.2 | 938.3 | 972.6 |
| 47.5° | 5152.6 | 4958.9 | 4618.9 | 3167.0 | 1144.1 | 1017.0 | 904.0 | 887.9 | 886.9 | 903.0 | 941.3 |
| 50° | 6300.8 | 6021.3 | 5496.7 | 3223.5 | 1095.7 | 1029.1 | 870.7 | 844.5 | 863.6 | 879.8 | 916.1 |
| 52.5° | 7400.5 | 6973.7 | 6349.2 | 3222.5 | 1074.5 | 1031.1 | 879.8 | 804.1 | 863.6 | 867.7 | 902.0 |
| 55° | 8339.8 | 7567.0 | 6579.2 | 2891.6 | 1044.2 | 1023.1 | 915.1 | 772.8 | 852.5 | 867.7 | 894.9 |
| 57.5° | 9086.4 | 7944.3 | 6562.1 | 2335.7 | 1136.1 | 978.7 | 936.3 | 765.8 | 820.3 | 869.7 | 901.0 |
| 60° | 9003.7 | 7771.8 | 6139.3 | 1433.7 | 1127.0 | 900.0 | 933.3 | 778.9 | 765.8 | 842.5 | 893.9 |
| 62.5° | 8453.8 | 7153.3 | 5411.9 | 994.8 | 1058.4 | 854.6 | 883.8 | 802.1 | 715.3 | 803.1 | 859.6 |
| 65° | 7684.0 | 6355.3 | 4509.9 | 762.8 | 876.8 | 856.6 | 800.1 | 786.0 | 670.9 | 740.6 | 801.1 |
| 67.5° | 6666.0 | 5365.5 | 3560.5 | 604.3 | 611.4 | 741.6 | 726.4 | 698.2 | 629.6 | 685.1 | 739.5 |
| 70° | 5011.4 | 3915.7 | 2449.7 | 486.3 | 463.1 | 619.5 | 652.8 | 627.6 | 589.2 | 605.4 | 662.9 |
| 72.5° | 3531.3 | 2556.6 | 1341.9 | 385.4 | 357.2 | 476.2 | 567.0 | 563.0 | 520.6 | 532.7 | 589.2 |
| 75° | 2624.2 | 1809.0 | 838.4 | 304.7 | 290.6 | 341.0 | 475.2 | 487.3 | 452.0 | 466.1 | 509.5 |
| 77.5° | 1746.5 | 1171.4 | 466.1 | 226.0 | 226.0 | 249.2 | 354.1 | 410.6 | 384.4 | 395.5 | 425.8 |
| 80° | 963.5 | 596.3 | 233.1 | 148.3 | 152.3 | 171.5 | 258.3 | 295.6 | 296.6 | 323.9 | 331.9 |
| 82.5° | 304.7 | 189.7 | 103.9 | 86.8 | 81.7 | 97.9 | 166.5 | 211.9 | 197.8 | 252.2 | 232.1 |
| 85° | 69.6 | 44.4 | 19.2 | 19.2 | 21.2 | 32.3 | 63.6 | 113.0 | 144.3 | 173.5 | 126.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 44.4 | 65.6 | 58.5 |
| 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° | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 |
| 2.5° | 1541.6 | 1521.5 | 1515.4 | 1498.3 | 1496.2 | 1480.1 | 1474.0 | 1474.0 | 1481.1 | 1481.1 | 1488.2 |
| 5° | 1440.8 | 1415.5 | 1401.4 | 1381.2 | 1376.2 | 1364.1 | 1356.0 | 1357.0 | 1366.1 | 1372.1 | 1384.3 |
| 7.5° | 1352.0 | 1334.8 | 1324.7 | 1315.6 | 1313.6 | 1311.6 | 1302.5 | 1301.5 | 1304.5 | 1313.6 | 1322.7 |
| 10° | 1314.6 | 1302.5 | 1305.6 | 1312.6 | 1323.7 | 1329.8 | 1321.7 | 1317.7 | 1314.6 | 1320.7 | 1328.8 |
| 12.5° | 1351.0 | 1338.9 | 1344.9 | 1357.0 | 1372.1 | 1378.2 | 1375.2 | 1374.2 | 1377.2 | 1400.4 | 1417.5 |
| 15° | 1430.7 | 1407.5 | 1399.4 | 1404.4 | 1416.5 | 1422.6 | 1419.6 | 1423.6 | 1442.8 | 1503.3 | 1546.7 |
| 17.5° | 1529.5 | 1473.0 | 1440.8 | 1431.7 | 1436.7 | 1441.8 | 1441.8 | 1451.9 | 1485.1 | 1573.9 | 1628.4 |
| 20° | 1583.0 | 1509.4 | 1454.9 | 1432.7 | 1434.7 | 1439.7 | 1439.7 | 1453.9 | 1491.2 | 1586.0 | 1621.4 |
| 22.5° | 1568.9 | 1501.3 | 1434.7 | 1410.5 | 1411.5 | 1415.5 | 1415.5 | 1427.6 | 1460.9 | 1544.7 | 1560.8 |
| 25° | 1513.4 | 1453.9 | 1388.3 | 1367.1 | 1369.1 | 1376.2 | 1374.2 | 1381.2 | 1406.4 | 1475.1 | 1484.1 |
| 27.5° | 1446.8 | 1394.3 | 1329.8 | 1313.6 | 1322.7 | 1336.8 | 1324.7 | 1325.7 | 1348.9 | 1406.4 | 1407.5 |
| 30° | 1375.2 | 1331.8 | 1274.3 | 1262.2 | 1279.3 | 1286.4 | 1275.3 | 1275.3 | 1298.5 | 1337.8 | 1336.8 |
| 32.5° | 1297.5 | 1270.2 | 1228.9 | 1215.8 | 1234.9 | 1246.0 | 1231.9 | 1233.9 | 1252.1 | 1278.3 | 1268.2 |
| 35° | 1224.8 | 1210.7 | 1191.5 | 1182.5 | 1194.6 | 1204.7 | 1195.6 | 1199.6 | 1216.8 | 1223.8 | 1209.7 |
| 37.5° | 1155.2 | 1153.2 | 1155.2 | 1155.2 | 1158.3 | 1161.3 | 1155.2 | 1165.3 | 1180.4 | 1171.4 | 1155.2 |
| 40° | 1094.7 | 1102.8 | 1121.9 | 1116.9 | 1113.9 | 1116.9 | 1112.9 | 1130.0 | 1145.1 | 1129.0 | 1109.8 |
| 42.5° | 1044.2 | 1059.4 | 1088.6 | 1088.6 | 1082.6 | 1084.6 | 1082.6 | 1103.8 | 1114.9 | 1092.7 | 1071.5 |
| 45° | 1000.9 | 1023.1 | 1060.4 | 1065.4 | 1055.3 | 1055.3 | 1059.4 | 1085.6 | 1089.6 | 1059.4 | 1037.2 |
| 47.5° | 970.6 | 997.8 | 1040.2 | 1049.3 | 1034.2 | 1033.1 | 1044.2 | 1072.5 | 1072.5 | 1037.2 | 1012.0 |
| 50° | 949.4 | 979.7 | 1030.1 | 1042.2 | 1027.1 | 1023.1 | 1041.2 | 1068.5 | 1062.4 | 1020.0 | 994.8 |
| 52.5° | 935.3 | 966.6 | 1029.1 | 1046.3 | 1036.2 | 1032.1 | 1050.3 | 1069.5 | 1054.3 | 1008.9 | 982.7 |
| 55° | 926.2 | 960.5 | 1032.1 | 1046.3 | 1035.2 | 1028.1 | 1046.3 | 1063.4 | 1055.3 | 1002.9 | 977.7 |
| 57.5° | 931.2 | 965.5 | 1028.1 | 1035.2 | 1022.0 | 1009.9 | 1031.1 | 1055.3 | 1052.3 | 1004.9 | 979.7 |
| 60° | 923.2 | 954.4 | 1005.9 | 1007.9 | 985.7 | 966.6 | 997.8 | 1034.2 | 1034.2 | 997.8 | 975.6 |
| 62.5° | 885.8 | 917.1 | 962.5 | 964.5 | 939.3 | 918.1 | 954.4 | 997.8 | 996.8 | 967.6 | 944.4 |
| 65° | 824.3 | 853.6 | 905.0 | 910.1 | 884.8 | 862.6 | 900.0 | 940.3 | 943.4 | 917.1 | 896.9 |
| 67.5° | 756.7 | 782.9 | 821.3 | 841.4 | 820.3 | 797.1 | 831.4 | 869.7 | 868.7 | 837.4 | 816.2 |
| 70° | 676.0 | 700.2 | 735.5 | 752.7 | 739.5 | 717.3 | 748.6 | 768.8 | 759.7 | 744.6 | 730.5 |
| 72.5° | 596.3 | 619.5 | 652.8 | 652.8 | 638.7 | 617.5 | 626.5 | 662.9 | 674.0 | 662.9 | 653.8 |
| 75° | 512.5 | 532.7 | 555.9 | 561.0 | 529.7 | 491.3 | 533.7 | 565.0 | 578.1 | 573.1 | 562.0 |
| 77.5° | 426.8 | 441.9 | 476.2 | 467.1 | 408.6 | 388.4 | 422.7 | 469.2 | 478.2 | 475.2 | 460.1 |
| 80° | 328.9 | 338.0 | 374.3 | 356.2 | 310.8 | 297.6 | 312.8 | 349.1 | 351.1 | 341.0 | 321.8 |
| 82.5° | 221.0 | 233.1 | 257.3 | 222.0 | 221.0 | 208.8 | 196.7 | 200.8 | 218.9 | 216.9 | 203.8 |
| 85° | 113.0 | 119.1 | 142.3 | 133.2 | 114.0 | 98.9 | 93.8 | 99.9 | 89.8 | 81.7 | 70.6 |
| 87.5° | 47.4 | 51.5 | 70.6 | 39.3 | 12.1 | 0.0 | 0.0 | 6.1 | 9.1 | 13.1 | 14.1 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 |
| 2.5° | 1504.3 | 1515.4 | 1542.7 | 1577.0 | 1610.3 | 1644.6 | 1681.9 | 1705.1 | 1733.3 | 1769.7 | 1770.7 |
| 5° | 1399.4 | 1424.6 | 1464.0 | 1516.4 | 1570.9 | 1633.5 | 1706.1 | 1766.6 | 1839.3 | 1896.8 | 1920.0 |
| 7.5° | 1334.8 | 1371.1 | 1420.6 | 1487.2 | 1558.8 | 1636.5 | 1731.3 | 1833.2 | 1952.3 | 2029.0 | 2074.4 |
| 10° | 1340.9 | 1396.4 | 1445.8 | 1502.3 | 1566.9 | 1650.6 | 1772.7 | 1907.9 | 2054.2 | 2155.1 | 2211.6 |
| 12.5° | 1448.8 | 1507.3 | 1498.3 | 1495.2 | 1538.6 | 1640.5 | 1806.0 | 1983.6 | 2162.1 | 2263.0 | 2330.6 |
| 15° | 1585.0 | 1607.2 | 1521.5 | 1456.9 | 1483.1 | 1604.2 | 1824.1 | 2051.2 | 2251.9 | 2375.0 | 2441.6 |
| 17.5° | 1654.6 | 1610.3 | 1506.3 | 1409.5 | 1402.4 | 1548.7 | 1833.2 | 2119.8 | 2352.8 | 2475.9 | 2546.5 |
| 20° | 1622.4 | 1557.8 | 1470.0 | 1378.2 | 1327.8 | 1473.0 | 1828.2 | 2174.2 | 2444.6 | 2581.9 | 2639.4 |
| 22.5° | 1552.7 | 1496.2 | 1427.6 | 1339.9 | 1267.2 | 1390.3 | 1815.1 | 2228.7 | 2526.4 | 2664.6 | 2715.0 |
| 25° | 1477.1 | 1434.7 | 1378.2 | 1301.5 | 1232.9 | 1317.7 | 1806.0 | 2301.4 | 2620.2 | 2752.4 | 2784.6 |
| 27.5° | 1401.4 | 1370.1 | 1323.7 | 1264.2 | 1224.8 | 1267.2 | 1809.0 | 2396.2 | 2741.3 | 2866.4 | 2853.3 |
| 30° | 1326.7 | 1299.5 | 1267.2 | 1241.0 | 1223.8 | 1255.1 | 1800.9 | 2497.1 | 2874.4 | 2990.5 | 2912.8 |
| 32.5° | 1256.1 | 1230.9 | 1210.7 | 1214.8 | 1224.8 | 1260.2 | 1759.6 | 2588.9 | 2996.5 | 3095.4 | 2977.4 |
| 35° | 1195.6 | 1169.4 | 1169.4 | 1183.5 | 1220.8 | 1243.0 | 1652.6 | 2660.6 | 3131.7 | 3230.6 | 3069.2 |
| 37.5° | 1139.1 | 1115.9 | 1131.0 | 1154.2 | 1189.5 | 1196.6 | 1515.4 | 2730.2 | 3328.5 | 3421.3 | 3211.4 |
| 40° | 1089.6 | 1066.4 | 1093.7 | 1122.9 | 1141.1 | 1138.1 | 1376.2 | 2827.0 | 3560.5 | 3656.4 | 3400.1 |
| 42.5° | 1050.3 | 1029.1 | 1053.3 | 1090.7 | 1093.7 | 1096.7 | 1274.3 | 2919.8 | 3829.9 | 3952.0 | 3725.0 |
| 45° | 1018.0 | 1002.9 | 1015.0 | 1052.3 | 1052.3 | 1098.7 | 1210.7 | 2997.5 | 4235.5 | 4451.4 | 4321.3 |
| 47.5° | 992.8 | 983.7 | 989.8 | 1001.9 | 1022.0 | 1135.0 | 1170.4 | 3057.1 | 4974.0 | 5397.8 | 5266.6 |
| 50° | 978.7 | 969.6 | 977.7 | 952.4 | 1013.0 | 1153.2 | 1157.2 | 3102.5 | 5947.6 | 6611.5 | 6449.1 |
| 52.5° | 966.6 | 963.5 | 968.6 | 910.1 | 1033.1 | 1141.1 | 1147.2 | 3041.9 | 6600.4 | 7806.1 | 7966.5 |
| 55° | 962.5 | 964.5 | 940.3 | 878.8 | 1057.4 | 1100.7 | 1116.9 | 2609.1 | 6778.0 | 8836.2 | 9832.0 |
| 57.5° | 964.5 | 958.5 | 896.9 | 881.8 | 1058.4 | 1020.0 | 1160.3 | 1861.5 | 6519.7 | 9284.2 | 11657.2 |
| 60° | 957.5 | 927.2 | 844.5 | 909.0 | 1012.0 | 925.2 | 1129.0 | 1213.7 | 5838.7 | 8940.1 | 11763.1 |
| 62.5° | 926.2 | 881.8 | 799.1 | 924.2 | 929.2 | 868.7 | 1025.1 | 935.3 | 4930.6 | 8203.6 | 10742.1 |
| 65° | 880.8 | 821.3 | 760.7 | 892.9 | 845.5 | 842.5 | 770.8 | 749.6 | 3965.1 | 7326.9 | 9773.5 |
| 67.5° | 806.1 | 746.6 | 732.5 | 821.3 | 760.7 | 746.6 | 619.5 | 621.5 | 3164.0 | 6392.6 | 8799.9 |
| 70° | 721.4 | 661.9 | 673.0 | 742.6 | 677.0 | 620.5 | 501.4 | 517.6 | 2400.2 | 5326.1 | 7487.3 |
| 72.5° | 665.9 | 586.2 | 587.2 | 653.8 | 595.3 | 502.4 | 412.7 | 426.8 | 1523.5 | 4014.5 | 5952.7 |
| 75° | 562.0 | 516.6 | 494.4 | 529.7 | 505.5 | 391.5 | 347.1 | 344.0 | 903.0 | 2877.5 | 4457.5 |
| 77.5° | 469.2 | 433.8 | 422.7 | 436.9 | 377.3 | 289.6 | 279.5 | 274.4 | 511.5 | 1843.3 | 2920.9 |
| 80° | 340.0 | 330.9 | 329.9 | 337.0 | 290.6 | 212.9 | 212.9 | 213.9 | 275.4 | 1000.9 | 1646.6 |
| 82.5° | 215.9 | 236.1 | 208.8 | 232.1 | 197.8 | 151.3 | 141.3 | 160.4 | 158.4 | 426.8 | 694.1 |
| 85° | 89.8 | 123.1 | 115.0 | 122.1 | 93.8 | 82.7 | 88.8 | 95.8 | 91.8 | 164.5 | 270.4 |
| 87.5° | 17.2 | 20.2 | 22.2 | 21.2 | 21.2 | 26.2 | 29.3 | 35.3 | 35.3 | 47.4 | 81.7 |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 | 1644.6 |
| 2.5° | 1809.0 | 1838.3 | 1832.2 | 1845.3 | 1828.2 | 1834.2 | 1799.9 | 1790.9 | 1784.8 | 1786.8 |
| 5° | 1994.7 | 2054.2 | 2065.3 | 2087.5 | 2072.3 | 2072.3 | 2011.8 | 1966.4 | 1950.3 | 1938.2 |
| 7.5° | 2183.3 | 2269.1 | 2325.6 | 2331.6 | 2323.6 | 2307.4 | 2219.6 | 2137.9 | 2108.7 | 2083.4 |
| 10° | 2350.8 | 2453.7 | 2517.3 | 2547.6 | 2532.4 | 2507.2 | 2398.2 | 2286.2 | 2250.9 | 2228.7 |
| 12.5° | 2478.9 | 2569.7 | 2612.1 | 2632.3 | 2630.3 | 2621.2 | 2532.4 | 2411.3 | 2374.0 | 2339.7 |
| 15° | 2561.7 | 2607.1 | 2590.9 | 2589.9 | 2604.1 | 2640.4 | 2613.1 | 2518.3 | 2474.9 | 2443.6 |
| 17.5° | 2615.1 | 2571.8 | 2500.1 | 2466.8 | 2497.1 | 2582.9 | 2645.4 | 2591.9 | 2552.6 | 2518.3 |
| 20° | 2634.3 | 2480.0 | 2376.0 | 2314.5 | 2349.8 | 2473.9 | 2628.3 | 2645.4 | 2612.1 | 2583.9 |
| 22.5° | 2612.1 | 2368.0 | 2226.7 | 2154.1 | 2188.4 | 2336.7 | 2577.8 | 2688.8 | 2666.6 | 2639.4 |
| 25° | 2557.6 | 2250.9 | 2081.4 | 2015.8 | 2053.2 | 2204.5 | 2488.0 | 2729.2 | 2730.2 | 2708.0 |
| 27.5° | 2490.0 | 2143.0 | 1979.5 | 1918.0 | 1954.3 | 2095.5 | 2400.2 | 2764.5 | 2799.8 | 2791.7 |
| 30° | 2421.4 | 2078.4 | 1931.1 | 1887.7 | 1915.0 | 2040.1 | 2310.5 | 2800.8 | 2871.4 | 2885.5 |
| 32.5° | 2390.2 | 2109.7 | 2045.1 | 2064.3 | 2029.0 | 2072.3 | 2278.2 | 2852.2 | 2958.2 | 2981.4 |
| 35° | 2431.5 | 2387.1 | 2550.6 | 2626.2 | 2501.1 | 2336.7 | 2319.5 | 2929.9 | 3080.3 | 3114.6 |
| 37.5° | 2632.3 | 2981.4 | 3225.6 | 3491.9 | 3275.0 | 2912.8 | 2524.3 | 3062.1 | 3254.8 | 3309.3 |
| 40° | 3069.2 | 3500.0 | 3940.9 | 4284.9 | 3957.0 | 3469.7 | 2913.8 | 3258.8 | 3494.9 | 3544.4 |
| 42.5° | 3480.8 | 3986.3 | 4593.7 | 5038.6 | 4612.8 | 3924.7 | 3333.5 | 3589.8 | 3811.7 | 3839.0 |
| 45° | 3884.4 | 4463.5 | 5383.7 | 6002.1 | 5424.0 | 4357.6 | 3762.3 | 4148.7 | 4316.2 | 4317.2 |
| 47.5° | 4357.6 | 5001.3 | 6374.4 | 7255.2 | 6500.5 | 4836.8 | 4164.9 | 5033.6 | 5266.6 | 5152.6 |
| 50° | 4923.6 | 5536.0 | 7394.5 | 8713.1 | 7813.2 | 5426.0 | 4676.4 | 6112.1 | 6429.9 | 6300.8 |
| 52.5° | 5681.3 | 6125.2 | 8518.4 | 10134.7 | 9243.8 | 6097.0 | 5418.0 | 7536.7 | 7641.6 | 7400.5 |
| 55° | 6747.7 | 6975.7 | 9961.2 | 11890.3 | 10841.0 | 6923.3 | 6502.6 | 9324.5 | 9030.9 | 8339.8 |
| 57.5° | 9176.2 | 8321.7 | 11813.6 | 13893.0 | 12648.0 | 8424.6 | 8879.6 | 11296.0 | 10251.7 | 9086.4 |
| 60° | 11208.2 | 9956.1 | 13527.7 | 15880.6 | 14196.7 | 10079.2 | 11111.4 | 11639.0 | 10206.3 | 9003.7 |
| 62.5° | 10523.1 | 10372.8 | 14146.2 | 16099.5 | 14725.3 | 10893.4 | 10696.7 | 10774.4 | 9540.5 | 8453.8 |
| 65° | 9232.7 | 9568.7 | 13594.3 | 15061.3 | 14139.2 | 10164.0 | 9675.6 | 9975.3 | 8778.7 | 7684.0 |
| 67.5° | 8471.0 | 8718.2 | 12612.6 | 13399.6 | 13073.7 | 9375.0 | 8881.6 | 8664.7 | 7596.2 | 6666.0 |
| 70° | 7692.1 | 7896.9 | 11234.4 | 11314.2 | 11412.0 | 8063.4 | 7262.3 | 6616.6 | 5662.1 | 5011.4 |
| 72.5° | 6646.8 | 6657.9 | 9492.0 | 9029.9 | 9215.6 | 6309.9 | 5845.7 | 4946.8 | 4121.5 | 3531.3 |
| 75° | 5576.4 | 5271.7 | 7513.5 | 6311.9 | 6684.2 | 4908.4 | 4854.0 | 3728.0 | 3108.5 | 2624.2 |
| 77.5° | 4251.6 | 3895.5 | 5488.6 | 4150.7 | 4694.6 | 3268.9 | 3649.3 | 2528.4 | 2187.4 | 1746.5 |
| 80° | 2854.3 | 2632.3 | 3032.8 | 2342.7 | 3071.2 | 2252.9 | 2380.1 | 1432.7 | 1242.0 | 963.5 |
| 82.5° | 1505.3 | 1285.4 | 1874.6 | 1389.3 | 1852.4 | 1238.0 | 892.9 | 442.9 | 377.3 | 304.7 |
| 85° | 583.2 | 675.0 | 919.1 | 494.4 | 718.4 | 441.9 | 258.3 | 110.0 | 91.8 | 69.6 |
| 87.5° | 113.0 | 174.5 | 95.8 | 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 |

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