

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: STREETWORKS

Report Number: P385839

Luminaire Tested: GAW-SA1B-830-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-830-U-T3
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4851 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

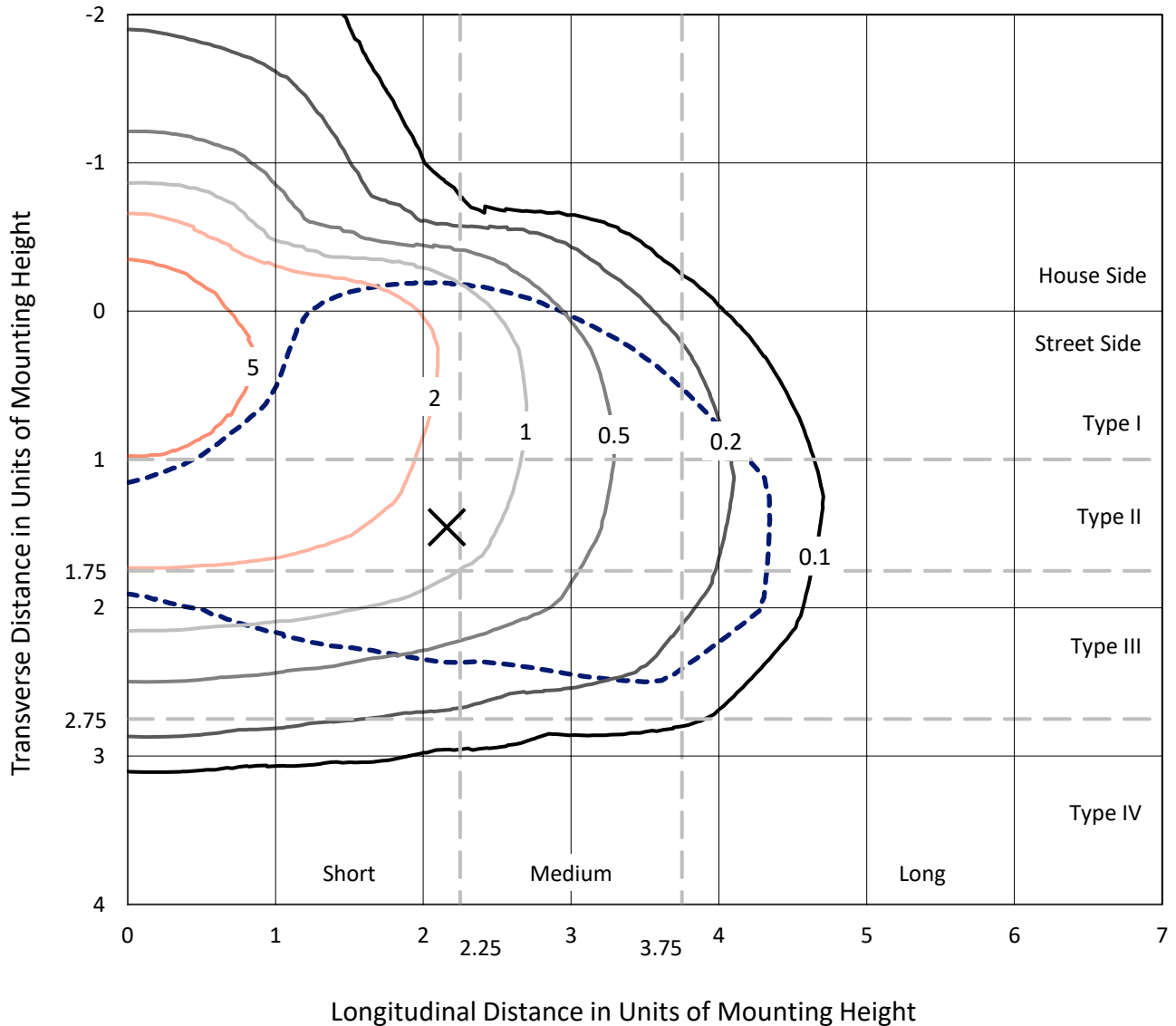
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

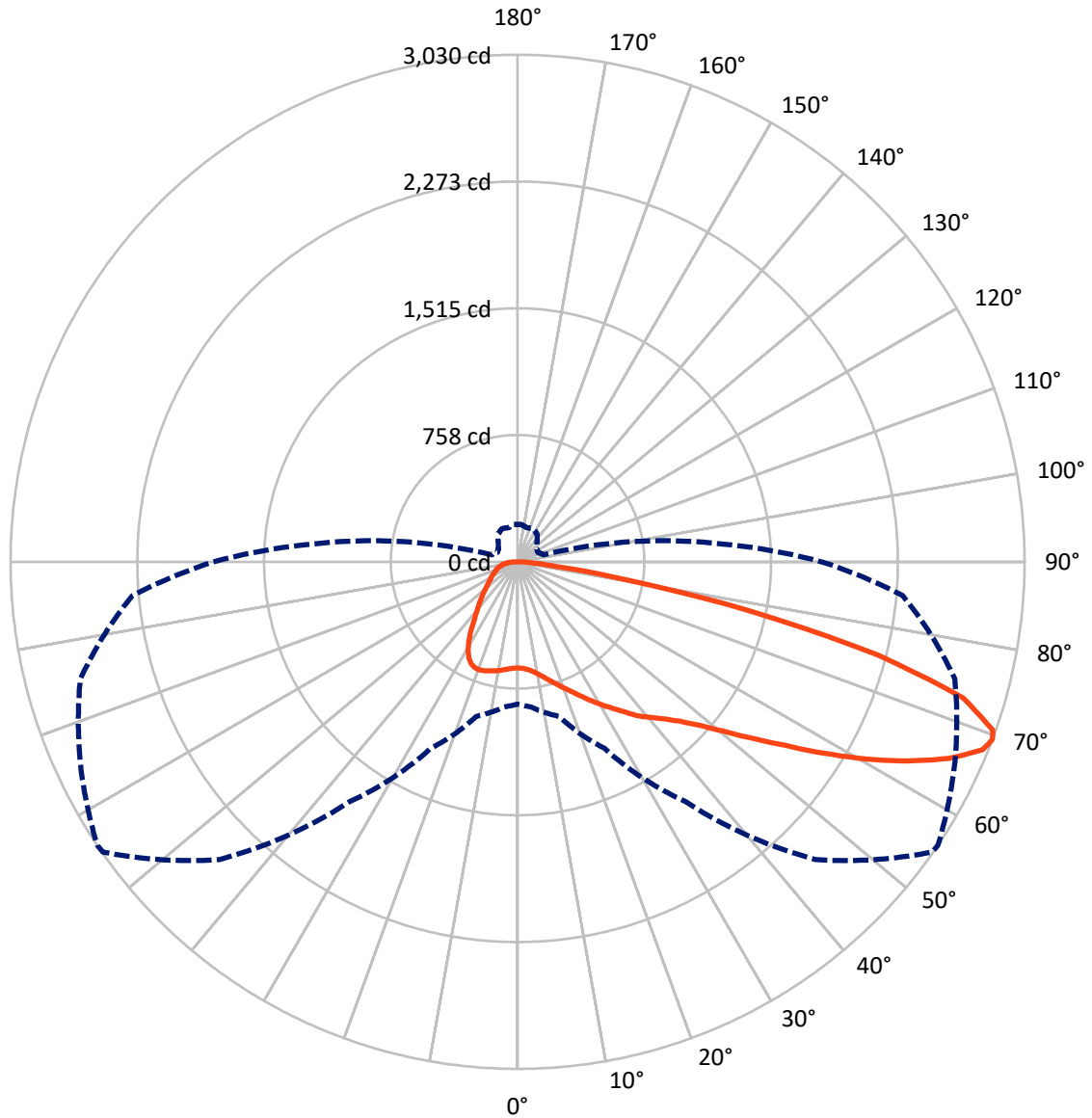
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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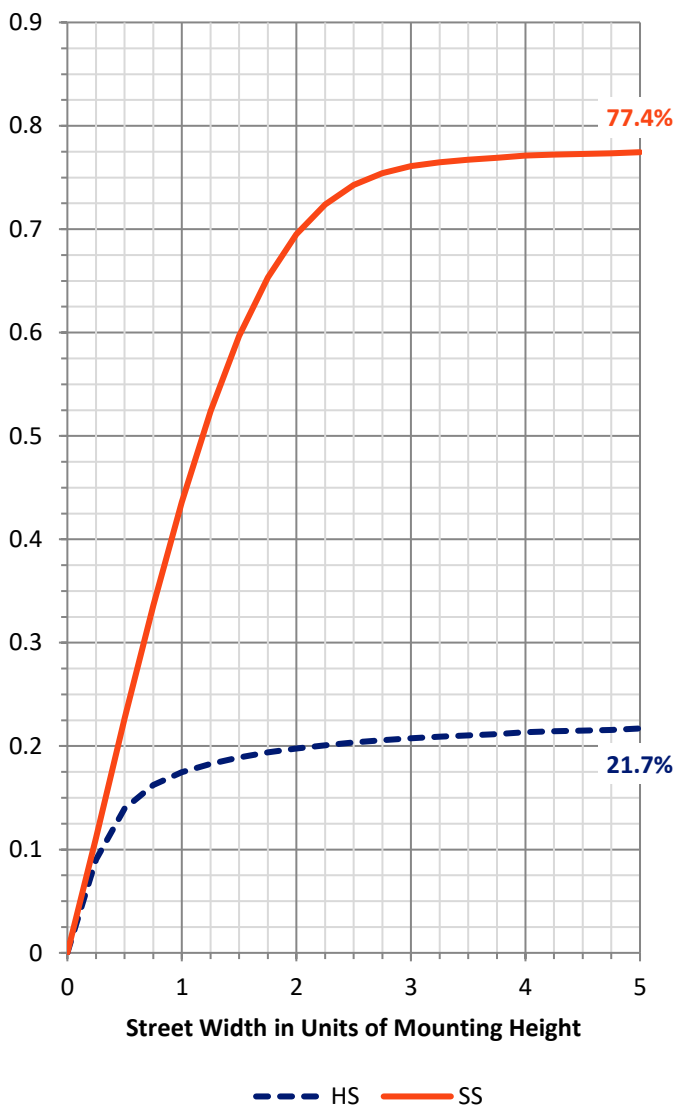
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1080.3 | 0.0 | 1080.3 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 3770.7 | 0.0 | 3770.7 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 4851.0 | 0.0 | 4851.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.3 | 1.3 |
| 10°-20° | 200.3 | 4.1 |
| 20°-30° | 349.6 | 7.2 |
| 30°-40° | 502.2 | 10.4 |
| 40°-50° | 695.1 | 14.3 |
| 50°-60° | 1018.4 | 21.0 |
| 60°-70° | 1241.6 | 25.6 |
| 70°-80° | 686.4 | 14.2 |
| 80°-90° | 95.1 | 2.0 |
| 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° | 4851.0 | 100.0 |
| 0°-180° | 4851.0 | 100.0 |

Coefficient of Utilization

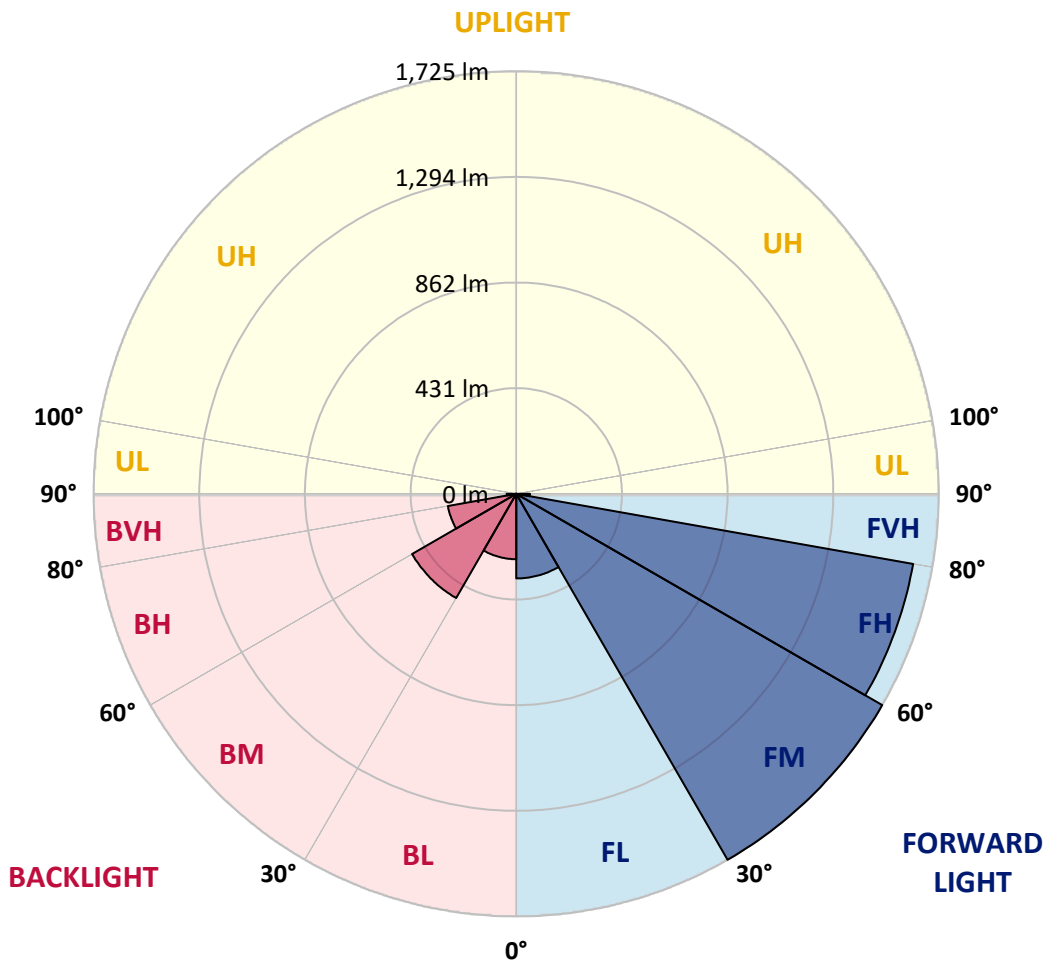


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 345.2 | 7.1 | | | |
| FM (30°-60°) | 1724.7 | 35.6 | | | |
| FH (60°-80°) | 1644.7 | 33.9 | | | G1/1800 |
| FVH (80°-90°) | 56.0 | 1.2 | | | G1/100 |
| BL (0°-30°) | 267.0 | 5.5 | B1/500 | | |
| BM (30°-60°) | 491.0 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 283.3 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 39.1 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 |
| 2.5° | 638.2 | 638.9 | 638.4 | 639.7 | 638.2 | 639.2 | 638.4 | 638.4 | 637.9 | 636.4 | 634.7 |
| 5° | 648.2 | 649.6 | 648.7 | 650.1 | 648.2 | 648.6 | 647.1 | 647.1 | 645.6 | 642.4 | 639.0 |
| 7.5° | 663.9 | 665.4 | 664.8 | 666.1 | 663.6 | 663.6 | 661.6 | 661.4 | 658.4 | 653.2 | 649.4 |
| 10° | 682.7 | 684.7 | 684.0 | 686.0 | 684.0 | 684.7 | 682.7 | 682.7 | 678.6 | 671.3 | 666.4 |
| 12.5° | 709.9 | 712.4 | 710.6 | 710.4 | 709.6 | 710.9 | 709.2 | 708.9 | 705.2 | 695.2 | 688.5 |
| 15° | 746.3 | 749.0 | 745.2 | 744.8 | 740.1 | 739.6 | 739.6 | 739.1 | 736.8 | 724.8 | 713.7 |
| 17.5° | 788.3 | 789.1 | 785.8 | 780.4 | 774.4 | 770.6 | 770.1 | 771.4 | 771.4 | 757.4 | 739.8 |
| 20° | 829.4 | 830.9 | 828.2 | 822.2 | 814.5 | 808.8 | 804.8 | 807.5 | 807.3 | 790.6 | 765.7 |
| 22.5° | 874.2 | 877.7 | 873.7 | 866.0 | 857.0 | 850.6 | 843.6 | 845.9 | 846.1 | 825.5 | 791.1 |
| 25° | 932.2 | 929.0 | 926.5 | 915.6 | 902.7 | 896.2 | 889.7 | 892.1 | 891.4 | 863.1 | 817.4 |
| 27.5° | 983.5 | 984.1 | 980.8 | 969.3 | 954.4 | 940.0 | 939.7 | 941.2 | 938.7 | 902.2 | 842.1 |
| 30° | 1043.1 | 1043.5 | 1038.8 | 1028.4 | 1012.2 | 993.7 | 989.3 | 991.8 | 986.5 | 939.3 | 868.2 |
| 32.5° | 1102.4 | 1104.1 | 1098.9 | 1086.4 | 1073.4 | 1050.8 | 1042.1 | 1043.8 | 1030.4 | 977.3 | 895.1 |
| 35° | 1154.4 | 1156.8 | 1155.1 | 1146.7 | 1132.5 | 1113.1 | 1102.8 | 1101.8 | 1085.2 | 1023.7 | 930.7 |
| 37.5° | 1207.4 | 1209.6 | 1207.7 | 1200.7 | 1195.0 | 1174.5 | 1169.0 | 1169.0 | 1140.2 | 1071.2 | 975.9 |
| 40° | 1261.9 | 1265.2 | 1263.0 | 1253.4 | 1248.5 | 1239.1 | 1225.9 | 1222.8 | 1191.7 | 1128.2 | 1049.8 |
| 42.5° | 1312.5 | 1316.9 | 1325.5 | 1319.9 | 1310.0 | 1311.3 | 1284.8 | 1283.1 | 1260.4 | 1212.4 | 1142.6 |
| 45° | 1384.4 | 1390.7 | 1405.4 | 1401.1 | 1399.1 | 1391.7 | 1360.1 | 1358.6 | 1349.9 | 1325.7 | 1257.7 |
| 47.5° | 1462.7 | 1471.4 | 1498.0 | 1498.8 | 1520.4 | 1506.5 | 1463.6 | 1458.4 | 1460.4 | 1461.4 | 1398.2 |
| 50° | 1534.9 | 1544.5 | 1588.1 | 1608.6 | 1659.4 | 1662.4 | 1593.8 | 1589.1 | 1596.9 | 1620.0 | 1562.0 |
| 52.5° | 1592.6 | 1604.6 | 1659.1 | 1722.6 | 1809.7 | 1834.4 | 1754.0 | 1750.5 | 1756.4 | 1796.1 | 1747.2 |
| 55° | 1634.9 | 1647.9 | 1707.2 | 1822.9 | 1961.9 | 2005.5 | 1938.5 | 1935.2 | 1938.8 | 1989.5 | 1948.5 |
| 57.5° | 1644.7 | 1647.9 | 1734.0 | 1890.4 | 2090.4 | 2195.2 | 2164.3 | 2157.6 | 2139.6 | 2183.7 | 2170.8 |
| 60° | 1598.4 | 1611.1 | 1711.9 | 1914.1 | 2189.9 | 2382.2 | 2400.2 | 2391.9 | 2341.3 | 2377.4 | 2367.0 |
| 62.5° | 1504.5 | 1527.2 | 1629.5 | 1878.0 | 2228.8 | 2534.9 | 2631.7 | 2621.7 | 2534.4 | 2557.8 | 2508.0 |
| 65° | 1351.1 | 1360.8 | 1468.3 | 1753.5 | 2179.3 | 2632.7 | 2838.1 | 2833.1 | 2723.3 | 2686.7 | 2534.1 |
| 67.5° | 1076.7 | 1094.9 | 1186.2 | 1493.3 | 1977.0 | 2621.2 | 2997.7 | 2997.2 | 2846.6 | 2734.5 | 2441.7 |
| 69° | 850.6 | 869.5 | 956.4 | 1230.1 | 1749.3 | 2515.7 | 3024.4 | 3030.3 | 2881.4 | 2705.4 | 2309.7 |
| 70° | 678.1 | 700.0 | 759.7 | 1036.1 | 1547.3 | 2376.7 | 3002.2 | 3012.7 | 2874.7 | 2657.4 | 2187.8 |
| 72.5° | 288.6 | 306.3 | 348.8 | 534.1 | 943.0 | 1774.7 | 2745.0 | 2784.8 | 2719.8 | 2432.2 | 1808.2 |
| 75° | 126.0 | 131.5 | 150.7 | 217.7 | 418.6 | 965.9 | 2150.4 | 2223.9 | 2325.5 | 2055.8 | 1346.9 |
| 77.5° | 92.2 | 94.6 | 105.1 | 127.8 | 187.8 | 364.8 | 1382.9 | 1425.6 | 1677.1 | 1496.0 | 826.2 |
| 80° | 71.4 | 73.0 | 81.2 | 93.9 | 122.7 | 147.6 | 630.7 | 667.5 | 943.0 | 768.4 | 344.1 |
| 82.5° | 56.8 | 58.0 | 63.7 | 69.2 | 84.7 | 89.4 | 209.4 | 232.3 | 348.1 | 212.2 | 91.1 |
| 85° | 52.8 | 54.1 | 56.2 | 50.5 | 54.3 | 52.5 | 90.6 | 94.8 | 105.1 | 83.4 | 38.1 |
| 87.5° | 23.9 | 28.2 | 55.6 | 39.3 | 28.9 | 23.1 | 37.1 | 38.8 | 43.6 | 43.8 | 16.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 | 634.2 |
| 2.5° | 635.7 | 635.2 | 636.0 | 634.0 | 636.5 | 636.4 | 635.5 | 635.9 | 637.5 | 637.4 | 637.5 |
| 5° | 639.5 | 639.2 | 640.2 | 638.7 | 641.7 | 642.7 | 642.9 | 644.4 | 646.2 | 646.7 | 646.7 |
| 7.5° | 649.2 | 649.2 | 649.7 | 647.7 | 649.7 | 649.6 | 648.7 | 650.2 | 652.1 | 652.2 | 652.1 |
| 10° | 665.9 | 666.1 | 665.3 | 660.1 | 658.4 | 653.9 | 649.7 | 649.9 | 652.2 | 654.1 | 654.6 |
| 12.5° | 687.0 | 686.3 | 682.7 | 673.1 | 666.1 | 656.9 | 652.6 | 652.4 | 654.8 | 656.3 | 656.8 |
| 15° | 711.1 | 709.2 | 699.7 | 684.2 | 671.8 | 662.8 | 655.8 | 654.1 | 652.7 | 651.1 | 651.2 |
| 17.5° | 733.8 | 729.6 | 713.7 | 692.2 | 679.1 | 667.1 | 653.6 | 642.7 | 635.2 | 630.9 | 629.5 |
| 20° | 756.9 | 748.7 | 725.8 | 699.7 | 683.2 | 661.3 | 635.2 | 613.1 | 599.4 | 593.1 | 591.9 |
| 22.5° | 777.9 | 764.7 | 737.0 | 707.6 | 680.0 | 641.5 | 600.6 | 568.5 | 549.5 | 540.9 | 541.6 |
| 25° | 798.5 | 780.1 | 748.7 | 713.1 | 663.9 | 606.8 | 552.5 | 513.0 | 491.0 | 481.5 | 481.1 |
| 27.5° | 816.5 | 795.6 | 761.4 | 708.6 | 634.0 | 557.3 | 495.5 | 457.1 | 438.7 | 430.5 | 429.1 |
| 30° | 837.2 | 815.2 | 778.2 | 691.3 | 590.2 | 500.2 | 439.8 | 412.8 | 399.7 | 391.5 | 390.0 |
| 32.5° | 862.5 | 841.8 | 792.1 | 660.1 | 534.3 | 440.5 | 396.4 | 377.5 | 365.6 | 356.5 | 354.8 |
| 35° | 899.2 | 876.8 | 795.6 | 615.3 | 472.8 | 393.4 | 364.5 | 345.1 | 329.0 | 317.2 | 316.0 |
| 37.5° | 945.4 | 920.8 | 787.6 | 557.3 | 413.1 | 362.8 | 337.9 | 314.0 | 293.1 | 276.4 | 273.7 |
| 40° | 1011.9 | 974.8 | 765.4 | 490.5 | 369.2 | 339.2 | 312.0 | 284.8 | 258.9 | 239.3 | 235.5 |
| 42.5° | 1091.8 | 1038.1 | 731.3 | 424.0 | 336.9 | 315.3 | 286.3 | 252.5 | 227.8 | 213.9 | 211.9 |
| 45° | 1193.4 | 1104.0 | 684.0 | 365.8 | 305.1 | 291.4 | 258.5 | 227.4 | 212.1 | 201.9 | 200.2 |
| 47.5° | 1309.3 | 1177.8 | 634.4 | 318.5 | 278.2 | 269.1 | 236.3 | 216.2 | 204.0 | 196.0 | 194.5 |
| 50° | 1451.9 | 1261.2 | 581.7 | 279.7 | 251.2 | 242.1 | 225.8 | 210.1 | 200.4 | 194.2 | 192.7 |
| 52.5° | 1612.6 | 1355.3 | 543.8 | 249.2 | 228.8 | 222.3 | 220.3 | 206.7 | 198.9 | 194.2 | 192.7 |
| 55° | 1785.8 | 1451.0 | 502.8 | 223.4 | 209.4 | 211.2 | 216.6 | 207.1 | 201.7 | 196.0 | 193.9 |
| 57.5° | 1959.1 | 1550.0 | 457.2 | 201.7 | 194.0 | 203.0 | 214.1 | 207.7 | 203.2 | 197.7 | 195.7 |
| 60° | 2096.1 | 1612.6 | 386.5 | 183.5 | 181.8 | 194.0 | 208.1 | 202.7 | 196.9 | 197.0 | 196.7 |
| 62.5° | 2160.1 | 1609.3 | 308.5 | 167.3 | 169.6 | 181.8 | 198.4 | 194.9 | 190.0 | 196.5 | 197.0 |
| 65° | 2124.2 | 1529.1 | 240.1 | 152.6 | 156.6 | 169.1 | 188.3 | 191.0 | 192.7 | 205.2 | 206.9 |
| 67.5° | 1973.4 | 1373.0 | 186.0 | 139.7 | 144.7 | 160.4 | 189.3 | 208.1 | 210.2 | 223.4 | 223.3 |
| 69° | 1817.5 | 1226.6 | 161.6 | 133.0 | 138.9 | 162.6 | 202.4 | 218.9 | 210.7 | 224.8 | 222.8 |
| 70° | 1686.8 | 1110.8 | 148.6 | 128.5 | 136.2 | 166.4 | 211.1 | 218.8 | 208.2 | 220.3 | 216.9 |
| 72.5° | 1299.1 | 799.1 | 126.0 | 120.2 | 127.2 | 159.3 | 213.6 | 213.9 | 202.4 | 204.7 | 199.0 |
| 75° | 891.0 | 505.0 | 110.0 | 108.8 | 113.5 | 143.6 | 205.5 | 204.4 | 187.2 | 183.8 | 179.1 |
| 77.5° | 491.3 | 256.5 | 93.4 | 97.9 | 101.1 | 127.2 | 186.8 | 185.2 | 171.0 | 163.9 | 162.3 |
| 80° | 189.5 | 112.3 | 78.9 | 87.1 | 89.1 | 110.1 | 163.8 | 162.3 | 150.4 | 141.4 | 138.9 |
| 82.5° | 71.5 | 58.8 | 65.2 | 75.4 | 74.7 | 90.9 | 138.7 | 137.9 | 126.3 | 113.1 | 109.1 |
| 85° | 33.1 | 35.3 | 51.6 | 62.2 | 57.3 | 67.3 | 111.0 | 112.5 | 98.4 | 82.7 | 82.7 |
| 87.5° | 14.0 | 19.7 | 36.6 | 47.0 | 38.6 | 45.5 | 81.4 | 77.7 | 71.4 | 49.5 | 46.5 |
| 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)