

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: P386591

Luminaire Tested: GAW-SA2B-730-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-730-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10657 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

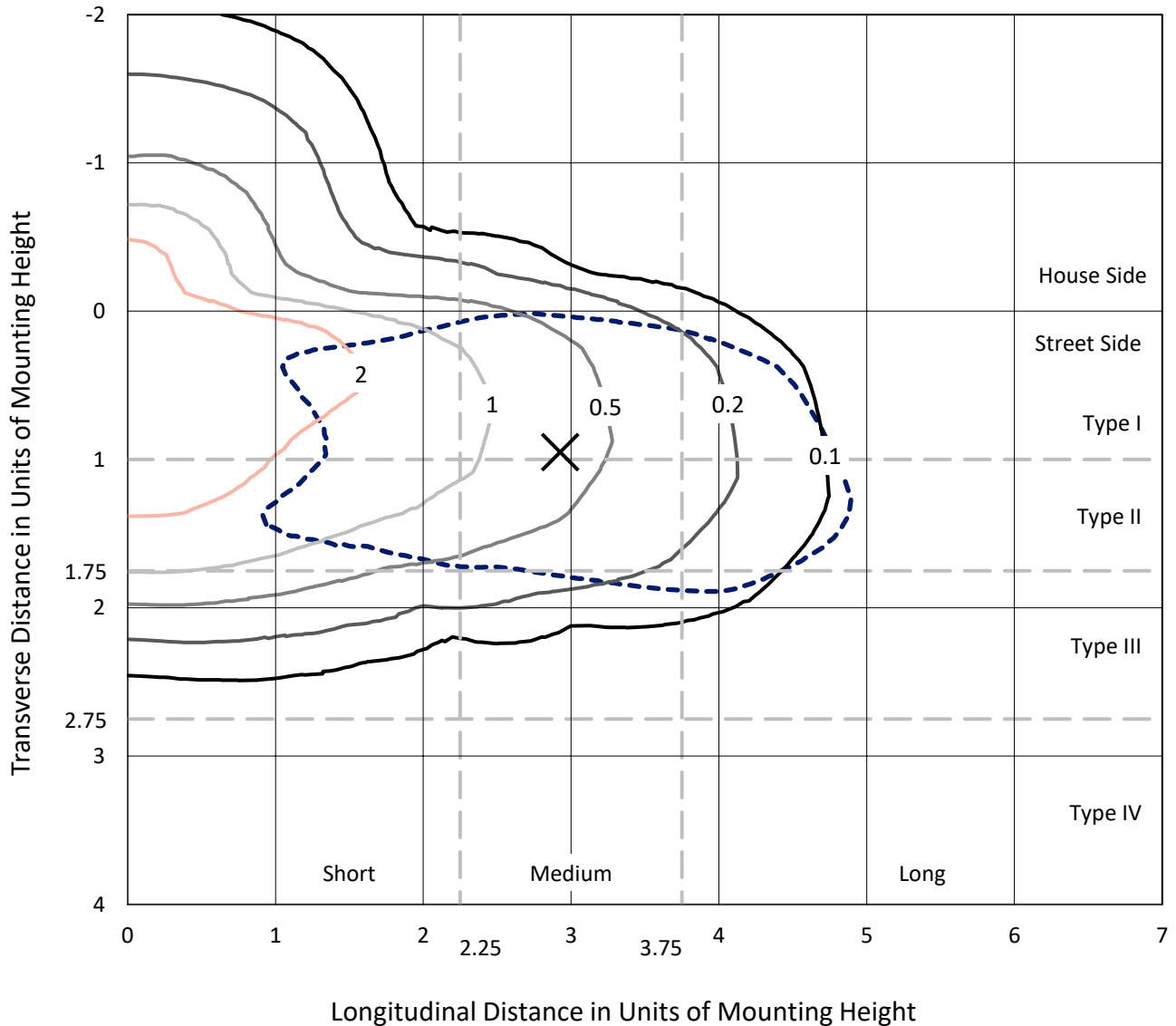
Input Watts (W): 86
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

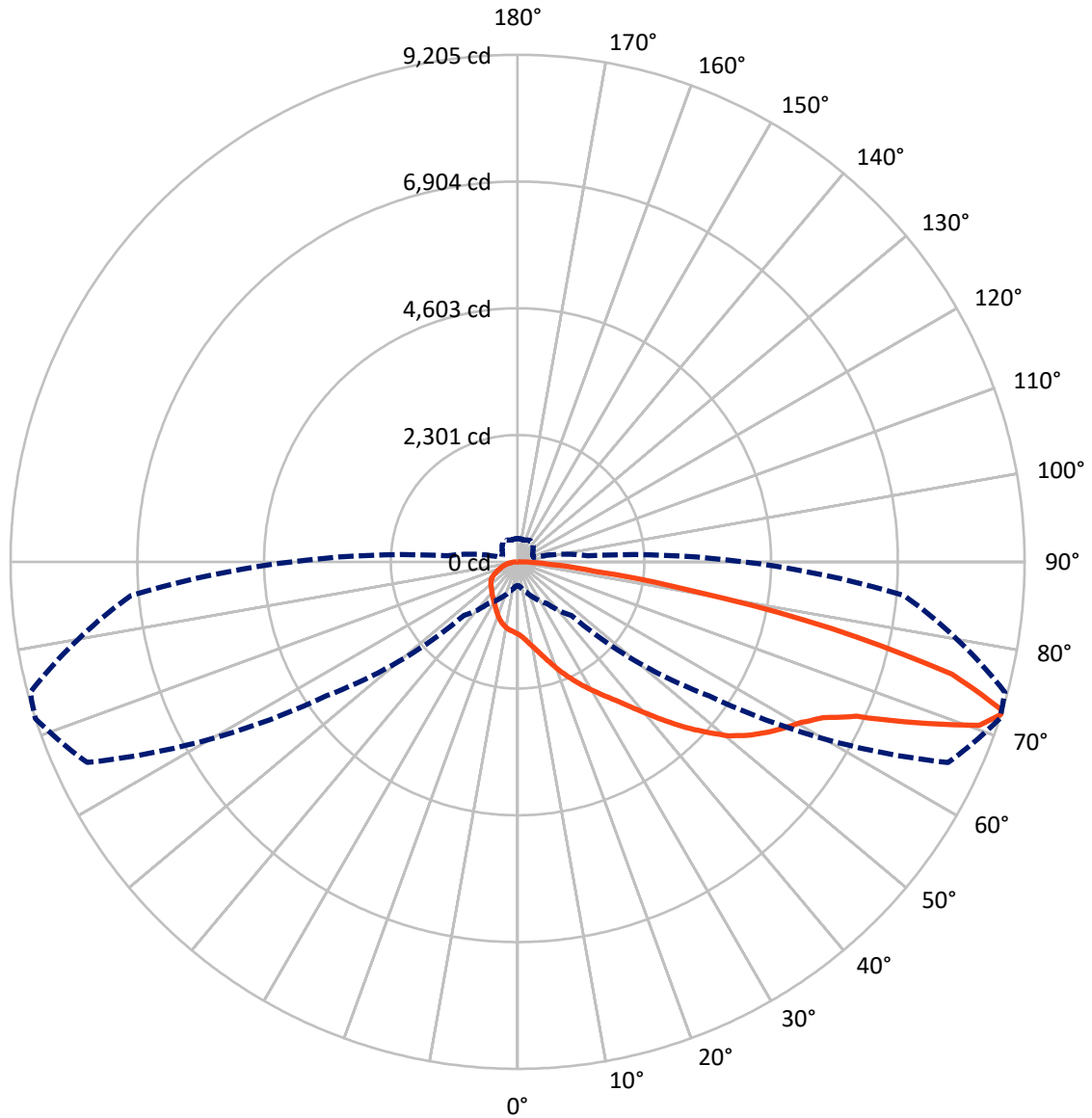
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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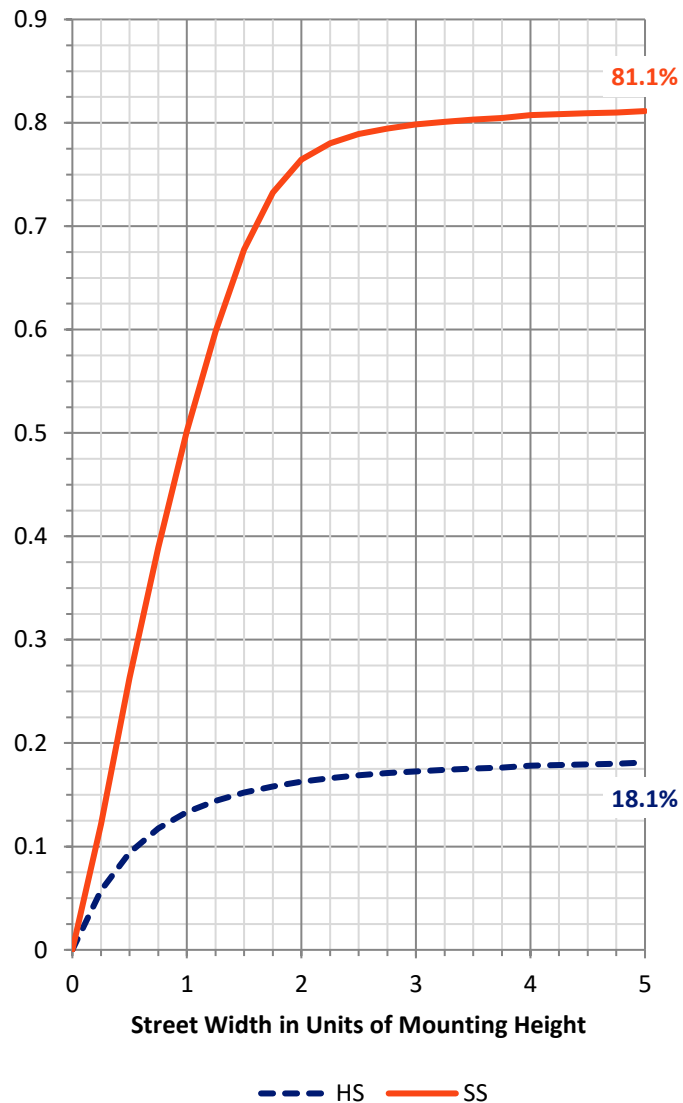
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1976.9 | 0.0 | 1976.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 8680.1 | 0.0 | 8680.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 10657.0 | 0.0 | 10657.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 131.4 | 1.2 |
| 10°-20° | 424.5 | 4.0 |
| 20°-30° | 743.9 | 7.0 |
| 30°-40° | 1103.0 | 10.4 |
| 40°-50° | 1613.2 | 15.1 |
| 50°-60° | 2219.8 | 20.8 |
| 60°-70° | 2471.3 | 23.2 |
| 70°-80° | 1674.6 | 15.7 |
| 80°-90° | 275.2 | 2.6 |
| 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° | 10657.0 | 100.0 |
| 0°-180° | 10657.0 | 100.0 |

Coefficient of Utilization

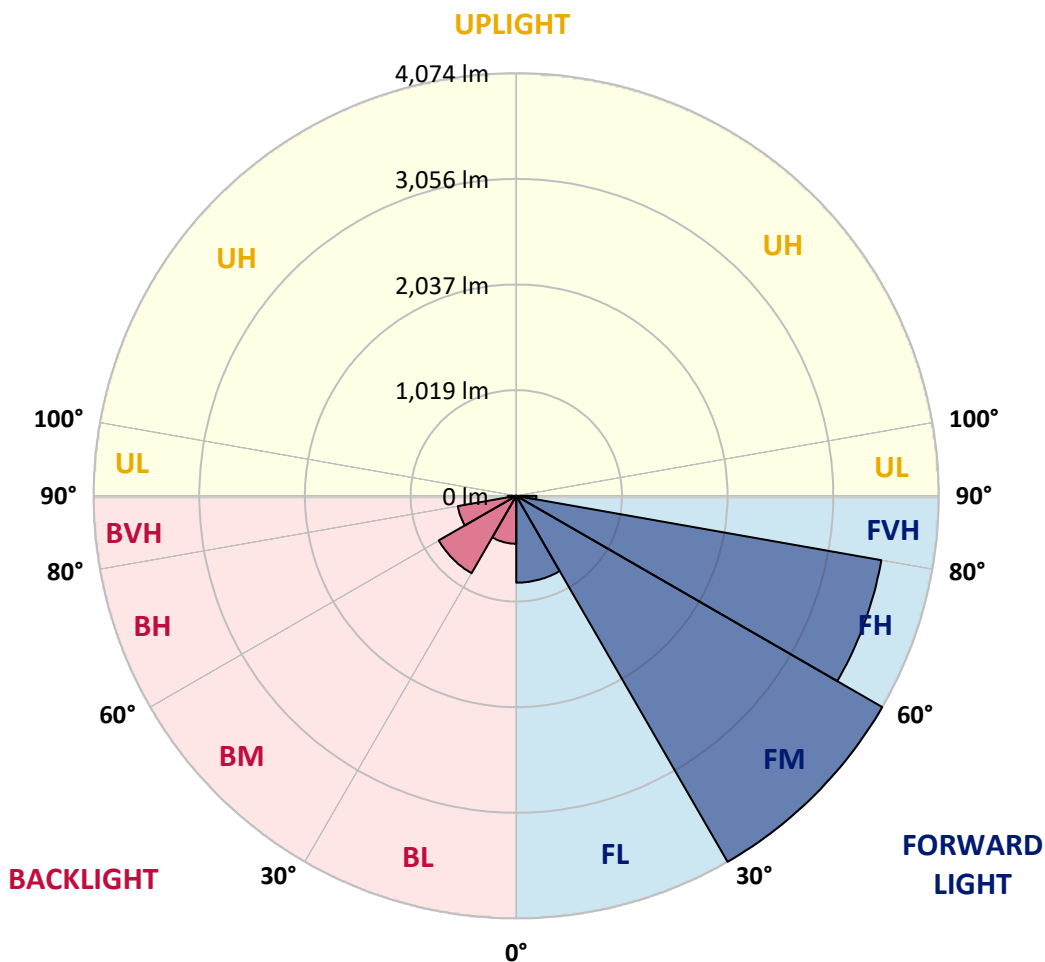


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 837.7 | 7.9 | | | |
| FM (30°-60°) | 4074.3 | 38.2 | | | |
| FH (60°-80°) | 3573.9 | 33.5 | | | G2/5000 |
| FVH (80°-90°) | 194.1 | 1.8 | | | G2/225 |
| BL (0°-30°) | 462.1 | 4.3 | B1/500 | | |
| BM (30°-60°) | 861.8 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 572.0 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.1 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 |
| 2.5° | 1448.3 | 1446.1 | 1438.4 | 1438.4 | 1423.7 | 1411.3 | 1387.8 | 1372.0 | 1353.3 | 1346.7 | 1324.7 |
| 5° | 1588.5 | 1589.2 | 1579.7 | 1573.1 | 1551.4 | 1525.0 | 1485.0 | 1448.7 | 1412.4 | 1397.7 | 1352.6 |
| 7.5° | 1706.3 | 1704.8 | 1702.3 | 1696.7 | 1676.6 | 1649.4 | 1595.5 | 1541.5 | 1488.0 | 1465.9 | 1388.1 |
| 10° | 1781.9 | 1785.2 | 1787.4 | 1790.0 | 1781.5 | 1762.1 | 1711.1 | 1645.4 | 1575.3 | 1545.2 | 1430.7 |
| 12.5° | 1820.0 | 1825.9 | 1836.2 | 1853.8 | 1867.7 | 1865.5 | 1828.5 | 1758.8 | 1675.5 | 1637.7 | 1483.9 |
| 15° | 1842.4 | 1850.1 | 1866.3 | 1897.8 | 1937.1 | 1959.5 | 1949.6 | 1886.5 | 1793.6 | 1747.0 | 1548.9 |
| 17.5° | 1856.4 | 1862.6 | 1887.6 | 1929.8 | 1988.1 | 2047.5 | 2073.6 | 2020.8 | 1927.2 | 1874.0 | 1623.4 |
| 20° | 1865.9 | 1870.7 | 1901.9 | 1951.4 | 2027.0 | 2121.7 | 2194.3 | 2181.1 | 2074.3 | 2005.3 | 1701.1 |
| 22.5° | 1887.2 | 1891.2 | 1920.9 | 1970.9 | 2054.5 | 2176.7 | 2310.6 | 2330.5 | 2229.5 | 2151.4 | 1784.4 |
| 25° | 1946.6 | 1946.6 | 1971.6 | 2006.4 | 2085.0 | 2224.4 | 2409.0 | 2496.7 | 2388.1 | 2297.1 | 1861.5 |
| 27.5° | 2060.0 | 2058.9 | 2068.1 | 2080.2 | 2139.6 | 2272.8 | 2496.7 | 2643.5 | 2552.5 | 2453.0 | 1936.4 |
| 30° | 2194.3 | 2201.7 | 2202.8 | 2196.9 | 2224.8 | 2333.4 | 2577.8 | 2798.3 | 2718.0 | 2610.8 | 2013.1 |
| 32.5° | 2367.2 | 2371.9 | 2366.4 | 2347.0 | 2342.9 | 2419.3 | 2657.4 | 2960.5 | 2897.0 | 2775.6 | 2083.1 |
| 35° | 2586.6 | 2577.4 | 2560.2 | 2520.5 | 2482.7 | 2534.1 | 2748.4 | 3122.7 | 3098.1 | 2974.8 | 2179.6 |
| 37.5° | 2821.8 | 2822.2 | 2800.9 | 2711.0 | 2658.9 | 2680.9 | 2873.9 | 3306.5 | 3341.4 | 3211.9 | 2303.3 |
| 40° | 3010.4 | 3020.3 | 3033.5 | 2915.4 | 2847.8 | 2878.3 | 3033.5 | 3519.7 | 3629.1 | 3492.9 | 2464.4 |
| 42.5° | 3142.1 | 3153.5 | 3190.9 | 3116.8 | 3046.7 | 3103.2 | 3221.4 | 3747.2 | 3952.0 | 3817.3 | 2653.0 |
| 45° | 3281.6 | 3287.8 | 3314.2 | 3282.3 | 3237.5 | 3364.9 | 3433.1 | 3982.8 | 4293.6 | 4163.0 | 2864.0 |
| 47.5° | 3428.4 | 3435.0 | 3462.1 | 3440.8 | 3417.3 | 3609.3 | 3654.0 | 4204.8 | 4620.9 | 4542.8 | 3089.3 |
| 50° | 3609.6 | 3614.0 | 3639.7 | 3601.2 | 3608.5 | 3793.5 | 3851.4 | 4408.5 | 4964.0 | 4884.0 | 3315.3 |
| 52.5° | 3856.9 | 3858.0 | 3893.6 | 3858.8 | 3824.3 | 3928.5 | 4021.3 | 4600.4 | 5233.0 | 5195.2 | 3541.4 |
| 55° | 4050.7 | 4062.4 | 4179.1 | 4171.8 | 4152.0 | 4051.1 | 4163.3 | 4783.1 | 5473.0 | 5490.9 | 3781.4 |
| 57.5° | 3927.0 | 3972.9 | 4209.2 | 4375.8 | 4538.0 | 4356.0 | 4355.3 | 4989.0 | 5696.1 | 5781.2 | 4045.2 |
| 60° | 3439.4 | 3501.7 | 3850.0 | 4219.5 | 4727.0 | 4886.6 | 4753.8 | 5240.3 | 5921.4 | 6068.9 | 4375.8 |
| 62.5° | 2456.3 | 2559.1 | 3031.0 | 3621.0 | 4467.9 | 5238.1 | 5564.7 | 5639.2 | 6227.8 | 6402.1 | 4805.5 |
| 65° | 1241.7 | 1319.5 | 1715.1 | 2425.9 | 3569.6 | 5008.4 | 6446.1 | 6512.5 | 6760.2 | 6915.0 | 5467.1 |
| 67.5° | 754.4 | 783.8 | 976.8 | 1349.3 | 2188.5 | 3901.3 | 6733.8 | 7968.2 | 7790.6 | 7872.8 | 6410.5 |
| 70° | 555.9 | 577.6 | 697.9 | 896.1 | 1258.6 | 2289.4 | 5850.9 | 9007.0 | 8890.3 | 8881.1 | 7107.7 |
| 72° | 433.0 | 448.8 | 555.2 | 724.0 | 920.3 | 1373.5 | 4240.8 | 8623.5 | 9205.1 | 9158.9 | 7043.8 |
| 72.5° | 410.6 | 424.6 | 521.4 | 681.4 | 869.7 | 1245.0 | 3812.9 | 8364.8 | 9182.4 | 9161.5 | 6961.3 |
| 75° | 323.3 | 333.2 | 386.0 | 526.9 | 680.7 | 706.4 | 2089.4 | 6482.4 | 8145.8 | 8484.5 | 6261.2 |
| 77.5° | 267.5 | 269.0 | 296.9 | 383.5 | 530.6 | 499.4 | 1026.3 | 4497.6 | 5832.9 | 6205.4 | 4435.2 |
| 80° | 218.0 | 219.8 | 233.0 | 269.0 | 401.4 | 369.5 | 487.3 | 2586.2 | 3265.8 | 3269.8 | 2109.2 |
| 82.5° | 173.6 | 173.9 | 188.6 | 196.7 | 288.4 | 264.2 | 279.2 | 1214.2 | 1427.0 | 1372.7 | 758.1 |
| 85° | 122.2 | 119.6 | 184.2 | 161.5 | 188.6 | 169.5 | 154.1 | 480.7 | 590.0 | 564.4 | 237.4 |
| 87.5° | 40.7 | 42.2 | 81.8 | 104.6 | 110.1 | 96.1 | 68.6 | 184.2 | 222.7 | 220.9 | 75.2 |
| 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° | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 | 1311.1 |
| 2.5° | 1317.7 | 1306.0 | 1288.7 | 1269.6 | 1254.6 | 1239.2 | 1227.8 | 1221.9 | 1215.3 | 1209.8 | 1216.4 |
| 5° | 1331.6 | 1309.6 | 1272.9 | 1237.0 | 1210.5 | 1187.1 | 1170.2 | 1161.4 | 1153.3 | 1147.8 | 1148.5 |
| 7.5° | 1354.4 | 1318.8 | 1257.1 | 1204.7 | 1168.0 | 1142.7 | 1125.4 | 1119.5 | 1114.4 | 1112.9 | 1114.8 |
| 10° | 1378.6 | 1326.1 | 1236.2 | 1166.5 | 1124.7 | 1103.8 | 1096.1 | 1100.1 | 1103.8 | 1107.1 | 1110.7 |
| 12.5° | 1406.1 | 1332.7 | 1205.8 | 1121.7 | 1086.2 | 1078.1 | 1085.8 | 1103.4 | 1116.2 | 1123.9 | 1128.7 |
| 15° | 1442.1 | 1338.6 | 1170.5 | 1077.0 | 1053.1 | 1062.3 | 1088.4 | 1118.8 | 1141.2 | 1155.5 | 1157.7 |
| 17.5° | 1475.1 | 1338.2 | 1125.4 | 1031.8 | 1026.3 | 1053.1 | 1092.4 | 1135.3 | 1165.4 | 1185.6 | 1189.6 |
| 20° | 1509.2 | 1328.3 | 1072.9 | 987.8 | 999.2 | 1043.2 | 1094.2 | 1146.0 | 1182.3 | 1205.8 | 1211.3 |
| 22.5° | 1541.2 | 1311.1 | 1015.3 | 947.8 | 976.4 | 1030.0 | 1087.3 | 1139.7 | 1176.1 | 1195.1 | 1201.0 |
| 25° | 1562.8 | 1281.0 | 957.0 | 914.1 | 956.3 | 1013.9 | 1064.5 | 1106.7 | 1133.9 | 1143.4 | 1144.9 |
| 27.5° | 1573.8 | 1241.7 | 901.9 | 884.7 | 935.3 | 987.4 | 1022.3 | 1043.2 | 1050.9 | 1050.2 | 1048.7 |
| 30° | 1575.3 | 1190.0 | 854.6 | 860.8 | 911.1 | 948.5 | 965.1 | 961.0 | 951.1 | 934.2 | 935.7 |
| 32.5° | 1570.5 | 1131.7 | 815.0 | 838.1 | 880.3 | 901.2 | 901.9 | 882.5 | 856.1 | 829.3 | 822.0 |
| 35° | 1572.0 | 1074.4 | 780.1 | 812.4 | 842.9 | 852.0 | 843.6 | 815.0 | 779.0 | 744.5 | 737.2 |
| 37.5° | 1588.1 | 1024.5 | 750.0 | 782.7 | 801.4 | 803.6 | 791.5 | 761.4 | 735.0 | 701.2 | 698.3 |
| 40° | 1626.7 | 988.9 | 721.4 | 749.3 | 759.9 | 761.0 | 743.8 | 722.5 | 724.7 | 706.7 | 706.4 |
| 42.5° | 1696.0 | 973.5 | 696.1 | 714.4 | 721.0 | 723.2 | 710.0 | 696.5 | 715.5 | 703.8 | 699.8 |
| 45° | 1785.5 | 977.2 | 674.8 | 680.3 | 692.4 | 702.7 | 694.6 | 678.1 | 685.5 | 634.4 | 617.6 |
| 47.5° | 1889.0 | 1000.7 | 657.9 | 651.0 | 671.9 | 691.3 | 678.8 | 653.9 | 627.8 | 577.2 | 567.7 |
| 50° | 2010.1 | 1037.0 | 642.5 | 622.0 | 649.5 | 675.9 | 663.4 | 627.8 | 588.6 | 564.0 | 560.7 |
| 52.5° | 2136.3 | 1081.4 | 627.1 | 590.0 | 621.2 | 664.2 | 657.9 | 622.0 | 573.5 | 549.3 | 544.9 |
| 55° | 2279.5 | 1126.1 | 607.7 | 553.0 | 590.8 | 658.7 | 655.4 | 600.7 | 562.2 | 548.6 | 545.3 |
| 57.5° | 2457.4 | 1177.2 | 582.0 | 514.5 | 562.2 | 638.8 | 628.6 | 587.8 | 550.4 | 540.1 | 539.0 |
| 60° | 2689.3 | 1252.4 | 544.9 | 473.4 | 527.3 | 608.4 | 606.2 | 569.1 | 531.7 | 524.4 | 522.9 |
| 62.5° | 3037.2 | 1376.8 | 493.9 | 432.3 | 488.4 | 556.7 | 576.8 | 543.8 | 511.9 | 511.5 | 512.3 |
| 65° | 3576.6 | 1563.9 | 438.5 | 396.3 | 449.1 | 513.0 | 542.7 | 517.8 | 491.7 | 499.0 | 500.1 |
| 67.5° | 4201.9 | 1719.1 | 384.2 | 361.1 | 409.1 | 471.5 | 511.9 | 491.7 | 464.9 | 484.0 | 484.4 |
| 70° | 4409.9 | 1580.4 | 336.5 | 326.2 | 367.7 | 431.5 | 478.5 | 463.1 | 435.9 | 455.0 | 453.2 |
| 72° | 4103.9 | 1275.9 | 305.7 | 299.8 | 336.5 | 398.5 | 448.8 | 436.3 | 409.5 | 422.4 | 417.6 |
| 72.5° | 4007.4 | 1216.4 | 298.0 | 293.2 | 328.0 | 390.1 | 441.1 | 429.7 | 402.9 | 413.9 | 409.5 |
| 75° | 3574.8 | 1056.4 | 256.1 | 257.2 | 286.2 | 349.0 | 397.8 | 394.1 | 366.6 | 367.7 | 366.2 |
| 77.5° | 2592.8 | 774.6 | 215.8 | 223.1 | 243.7 | 306.8 | 354.1 | 351.9 | 321.8 | 316.3 | 315.2 |
| 80° | 1203.2 | 395.2 | 175.8 | 179.1 | 200.4 | 256.5 | 302.0 | 299.1 | 274.8 | 267.9 | 263.8 |
| 82.5° | 412.1 | 187.9 | 132.1 | 134.3 | 155.2 | 206.6 | 262.0 | 260.2 | 240.0 | 226.4 | 218.0 |
| 85° | 147.1 | 93.6 | 92.5 | 90.3 | 110.8 | 162.6 | 228.2 | 218.3 | 188.6 | 160.7 | 160.0 |
| 87.5° | 47.7 | 40.0 | 47.7 | 47.3 | 64.6 | 110.1 | 165.9 | 141.3 | 136.9 | 113.8 | 111.6 |
| 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)