

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: P385731

Luminaire Tested: GAW-SA1B-740-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-740-U-T4FT
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6140 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

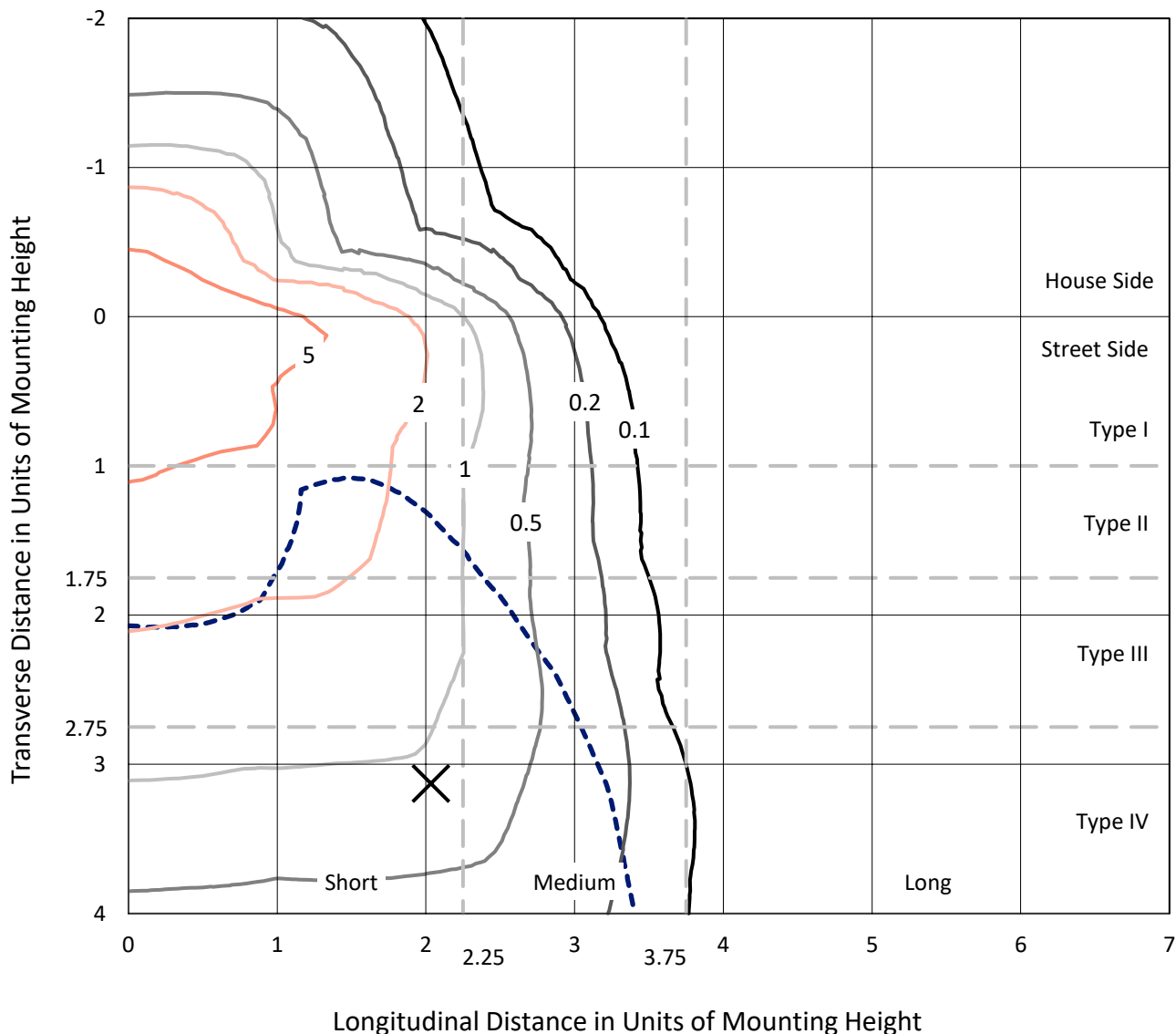
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

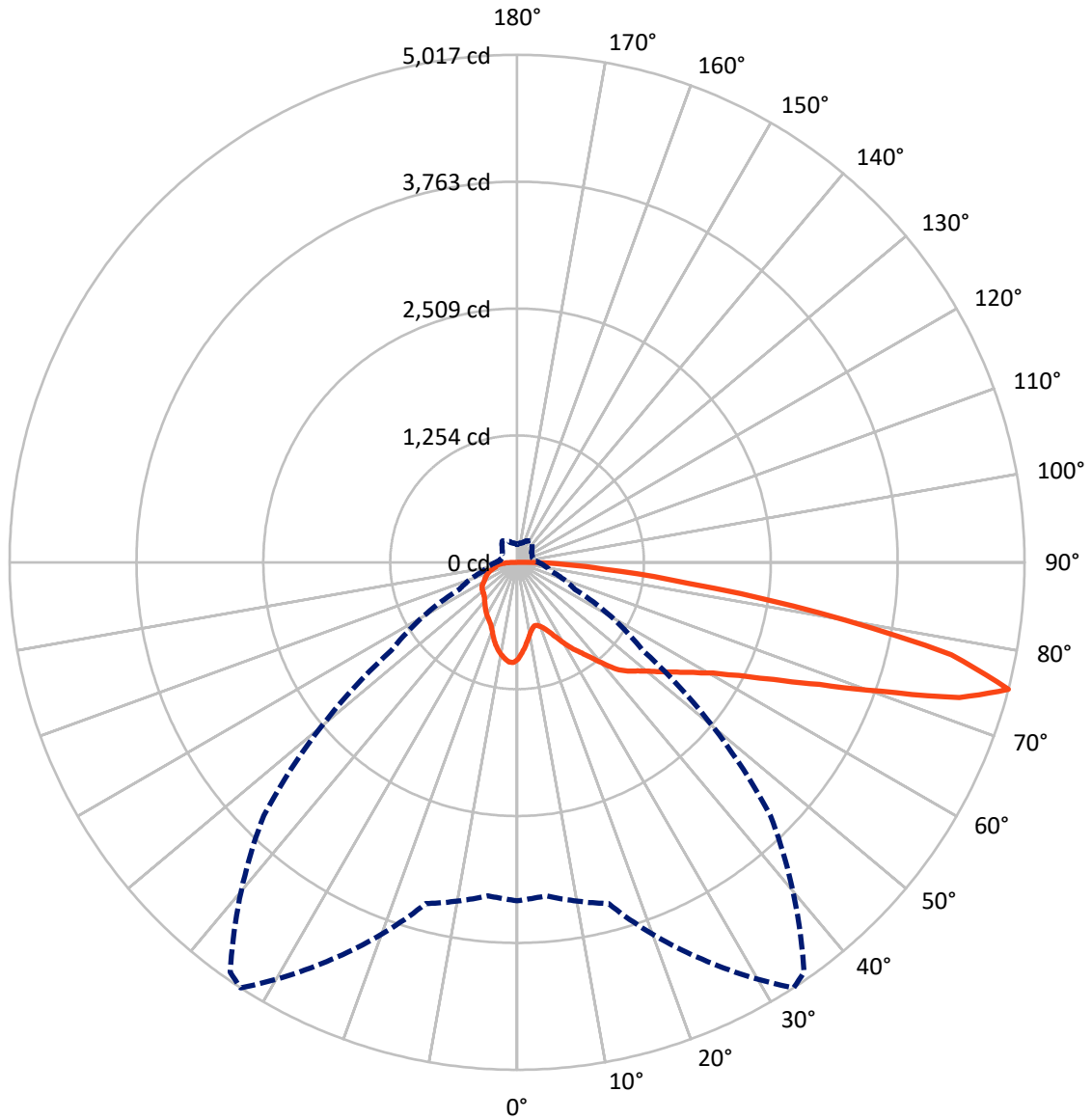
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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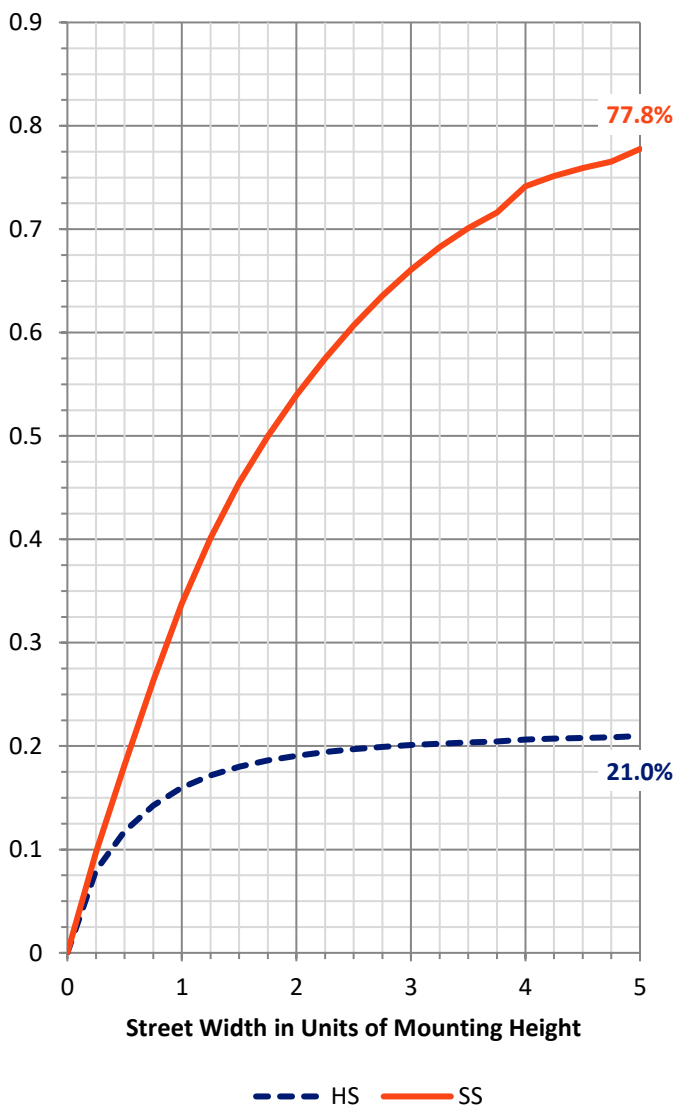
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1318.4 | 0.0 | 1318.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 4821.6 | 0.0 | 4821.6 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 6140.0 | 0.0 | 6140.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.8 | 1.4 |
| 10°-20° | 235.1 | 3.8 |
| 20°-30° | 383.9 | 6.3 |
| 30°-40° | 571.7 | 9.3 |
| 40°-50° | 820.0 | 13.4 |
| 50°-60° | 1125.8 | 18.3 |
| 60°-70° | 1409.4 | 23.0 |
| 70°-80° | 1275.0 | 20.8 |
| 80°-90° | 232.3 | 3.8 |
| 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° | 6140.0 | 100.0 |
| 0°-180° | 6140.0 | 100.0 |

Coefficient of Utilization

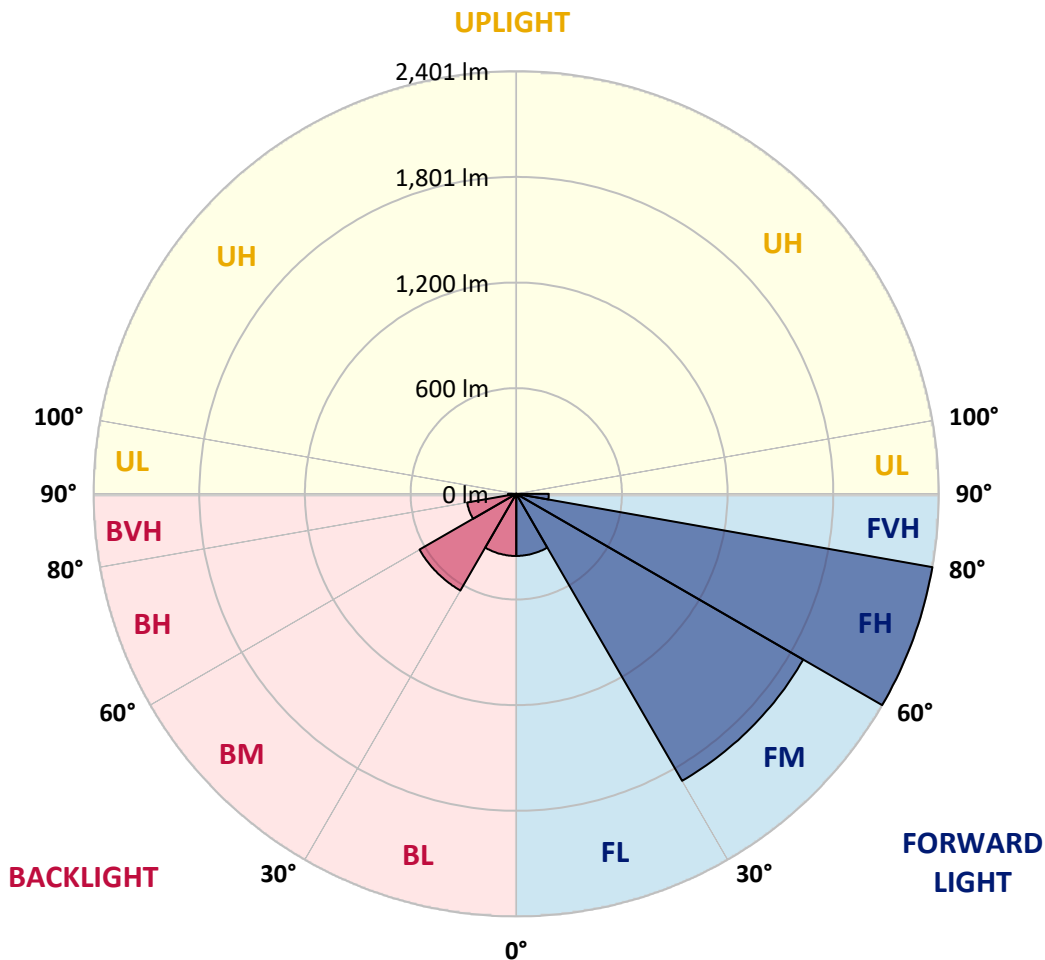


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 352.6 | 5.7 | | | |
| FM (30°-60°) | 1883.0 | 30.7 | | | |
| FH (60°-80°) | 2401.0 | 39.1 | | | G2/5000 |
| FVH (80°-90°) | 185.0 | 3.0 | | | G2/225 |
| BL (0°-30°) | 353.1 | 5.8 | B1/500 | | |
| BM (30°-60°) | 634.5 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 283.5 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 47.3 | 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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 891.2 | 887.8 | 894.2 | 895.0 | 900.5 | 902.7 | 910.3 | 922.2 | 931.9 | 943.2 | 953.4 |
| 5° | 810.4 | 808.1 | 817.0 | 823.3 | 835.4 | 840.5 | 858.5 | 883.8 | 906.3 | 931.7 | 954.8 |
| 7.5° | 733.6 | 732.4 | 742.3 | 756.7 | 770.7 | 777.7 | 808.9 | 845.6 | 883.2 | 924.3 | 959.7 |
| 10° | 668.9 | 668.5 | 678.1 | 692.3 | 712.8 | 720.7 | 761.0 | 809.3 | 861.9 | 918.6 | 968.0 |
| 12.5° | 632.7 | 634.2 | 638.6 | 650.5 | 669.6 | 677.4 | 722.2 | 779.0 | 844.1 | 916.7 | 980.1 |
| 15° | 641.6 | 643.9 | 636.3 | 635.9 | 649.4 | 655.6 | 697.6 | 757.4 | 831.4 | 919.8 | 997.7 |
| 17.5° | 679.5 | 680.0 | 659.8 | 647.1 | 655.4 | 658.5 | 689.9 | 745.1 | 824.0 | 927.1 | 1019.7 |
| 20° | 733.0 | 731.9 | 696.3 | 675.1 | 679.5 | 680.4 | 700.8 | 745.3 | 823.3 | 939.6 | 1048.4 |
| 22.5° | 803.8 | 796.0 | 748.0 | 719.2 | 718.1 | 716.9 | 728.5 | 761.0 | 832.7 | 959.9 | 1082.5 |
| 25° | 896.3 | 888.9 | 822.9 | 783.5 | 775.0 | 771.8 | 773.5 | 794.5 | 851.1 | 981.8 | 1120.7 |
| 27.5° | 999.2 | 986.2 | 922.6 | 866.8 | 849.2 | 844.8 | 834.6 | 841.8 | 871.3 | 1002.8 | 1166.1 |
| 30° | 1085.3 | 1078.3 | 1022.7 | 956.5 | 935.8 | 929.4 | 902.7 | 894.8 | 900.3 | 1031.4 | 1223.3 |
| 32.5° | 1133.4 | 1128.8 | 1095.0 | 1041.6 | 1022.3 | 1013.4 | 975.6 | 959.9 | 947.0 | 1076.6 | 1301.0 |
| 35° | 1191.7 | 1188.8 | 1168.4 | 1129.6 | 1101.0 | 1091.6 | 1062.4 | 1046.0 | 1012.7 | 1138.7 | 1401.3 |
| 37.5° | 1266.0 | 1262.8 | 1263.2 | 1231.8 | 1197.7 | 1189.0 | 1169.7 | 1152.5 | 1098.0 | 1220.4 | 1510.3 |
| 40° | 1350.0 | 1343.8 | 1341.5 | 1340.0 | 1318.4 | 1313.5 | 1303.3 | 1280.0 | 1204.9 | 1317.9 | 1617.8 |
| 42.5° | 1476.4 | 1454.5 | 1407.9 | 1425.5 | 1446.9 | 1444.3 | 1452.6 | 1419.1 | 1323.7 | 1433.3 | 1722.8 |
| 45° | 1598.3 | 1562.5 | 1481.9 | 1485.7 | 1532.6 | 1546.8 | 1608.7 | 1585.0 | 1452.4 | 1559.7 | 1831.4 |
| 47.5° | 1653.9 | 1626.7 | 1558.2 | 1558.5 | 1604.9 | 1634.4 | 1770.1 | 1753.2 | 1587.7 | 1703.3 | 1964.0 |
| 50° | 1716.0 | 1688.9 | 1627.4 | 1650.5 | 1691.0 | 1722.4 | 1926.0 | 1917.3 | 1716.5 | 1860.5 | 2122.8 |
| 52.5° | 1783.9 | 1737.9 | 1698.9 | 1740.2 | 1797.1 | 1833.5 | 2082.1 | 2058.4 | 1834.6 | 2018.7 | 2305.4 |
| 55° | 1784.8 | 1772.2 | 1801.9 | 1832.3 | 1917.3 | 1962.1 | 2245.6 | 2182.9 | 1930.9 | 2174.2 | 2454.1 |
| 57.5° | 1886.3 | 1866.0 | 1929.0 | 1943.0 | 2054.1 | 2104.6 | 2408.3 | 2291.2 | 2028.9 | 2293.4 | 2534.3 |
| 60° | 2020.8 | 2003.4 | 2055.0 | 2091.9 | 2223.4 | 2290.8 | 2582.0 | 2402.6 | 2105.9 | 2383.3 | 2530.5 |
| 62.5° | 2253.1 | 2233.3 | 2232.7 | 2284.4 | 2461.5 | 2540.0 | 2776.9 | 2511.8 | 2136.4 | 2401.1 | 2422.5 |
| 65° | 2593.0 | 2561.6 | 2502.5 | 2527.1 | 2790.5 | 2868.8 | 2994.7 | 2590.9 | 2096.1 | 2305.7 | 2144.5 |
| 67.5° | 2923.9 | 2922.8 | 2850.1 | 2900.6 | 3224.9 | 3287.6 | 3242.9 | 2598.8 | 1970.3 | 1973.3 | 1651.1 |
| 70° | 3253.7 | 3257.9 | 3245.6 | 3421.3 | 3811.7 | 3877.0 | 3507.2 | 2493.4 | 1687.6 | 1425.0 | 989.2 |
| 72.5° | 3515.0 | 3513.9 | 3575.9 | 4028.7 | 4573.3 | 4558.7 | 3729.9 | 2173.9 | 1211.7 | 769.3 | 472.8 |
| 75° | 3345.8 | 3308.8 | 3493.4 | 4329.4 | 5017.2 | 4945.8 | 3540.5 | 1516.5 | 628.9 | 350.2 | 254.5 |
| 77.5° | 2182.2 | 2217.2 | 2488.1 | 3576.5 | 4388.6 | 4301.7 | 2597.5 | 707.5 | 296.3 | 229.7 | 184.5 |
| 80° | 790.3 | 827.2 | 1165.0 | 2025.9 | 3023.6 | 3009.4 | 1279.1 | 290.8 | 200.4 | 173.5 | 134.5 |
| 82.5° | 271.9 | 285.5 | 459.6 | 899.7 | 1707.1 | 1770.8 | 481.2 | 165.2 | 145.7 | 123.0 | 92.0 |
| 85° | 106.7 | 122.2 | 210.2 | 432.9 | 861.1 | 867.5 | 194.9 | 98.8 | 101.4 | 80.6 | 50.5 |
| 87.5° | 40.5 | 49.2 | 100.5 | 201.1 | 393.2 | 361.2 | 69.8 | 47.1 | 57.7 | 47.9 | 24.0 |
| 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° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 961.2 | 965.7 | 975.0 | 981.3 | 988.1 | 990.0 | 990.9 | 992.6 | 994.3 | 993.7 | 993.9 |
| 5° | 967.1 | 975.8 | 990.9 | 997.3 | 1000.2 | 996.8 | 990.3 | 985.0 | 981.1 | 979.0 | 978.4 |
| 7.5° | 976.9 | 989.2 | 1005.3 | 1004.3 | 997.5 | 982.4 | 965.4 | 952.7 | 942.1 | 938.3 | 936.2 |
| 10° | 989.8 | 1004.3 | 1015.5 | 1003.4 | 983.7 | 957.6 | 932.1 | 912.4 | 896.5 | 890.4 | 889.3 |
| 12.5° | 1006.4 | 1021.0 | 1023.1 | 997.5 | 964.8 | 929.2 | 894.6 | 868.5 | 844.8 | 837.1 | 835.4 |
| 15° | 1027.8 | 1041.6 | 1028.4 | 987.1 | 941.5 | 893.5 | 848.8 | 813.4 | 788.3 | 779.0 | 775.6 |
| 17.5° | 1050.3 | 1063.4 | 1029.5 | 969.9 | 910.9 | 851.3 | 795.1 | 758.9 | 730.2 | 719.4 | 718.1 |
| 20° | 1077.2 | 1083.2 | 1025.0 | 945.3 | 868.9 | 796.6 | 737.4 | 703.3 | 688.0 | 680.4 | 679.5 |
| 22.5° | 1110.5 | 1104.2 | 1014.9 | 912.0 | 815.7 | 733.4 | 685.3 | 669.4 | 665.5 | 663.8 | 664.5 |
| 25° | 1145.7 | 1126.2 | 999.8 | 868.5 | 748.5 | 670.2 | 647.1 | 651.5 | 656.6 | 656.0 | 656.0 |
| 27.5° | 1184.5 | 1148.7 | 976.7 | 810.8 | 674.0 | 618.5 | 621.2 | 637.5 | 645.2 | 645.0 | 644.8 |
| 30° | 1234.4 | 1174.1 | 947.2 | 741.5 | 604.5 | 582.0 | 598.7 | 618.7 | 629.1 | 628.6 | 628.9 |
| 32.5° | 1295.7 | 1202.1 | 907.1 | 664.1 | 554.2 | 555.0 | 574.3 | 594.1 | 606.2 | 605.1 | 605.3 |
| 35° | 1367.4 | 1233.5 | 852.8 | 587.7 | 520.9 | 533.6 | 548.9 | 562.7 | 574.1 | 572.6 | 571.2 |
| 37.5° | 1445.4 | 1264.3 | 780.7 | 519.4 | 493.8 | 513.7 | 526.4 | 528.7 | 534.0 | 530.2 | 527.5 |
| 40° | 1519.6 | 1287.8 | 687.8 | 463.4 | 466.4 | 496.7 | 505.0 | 495.7 | 486.1 | 484.8 | 481.0 |
| 42.5° | 1584.3 | 1295.7 | 593.9 | 418.7 | 437.5 | 478.9 | 484.0 | 464.5 | 447.3 | 439.2 | 435.8 |
| 45° | 1652.6 | 1298.4 | 506.3 | 381.1 | 409.8 | 463.0 | 468.5 | 442.4 | 418.2 | 400.9 | 395.1 |
| 47.5° | 1741.9 | 1318.4 | 438.2 | 353.3 | 388.6 | 452.4 | 460.2 | 424.8 | 393.4 | 368.6 | 363.3 |
| 50° | 1858.8 | 1357.8 | 382.8 | 332.1 | 374.8 | 445.4 | 454.3 | 407.6 | 373.1 | 343.2 | 337.9 |
| 52.5° | 1988.6 | 1394.1 | 338.1 | 315.0 | 361.4 | 433.1 | 446.7 | 395.3 | 354.0 | 319.6 | 313.9 |
| 55° | 2079.4 | 1366.3 | 302.0 | 297.1 | 344.0 | 415.5 | 436.1 | 384.9 | 326.6 | 296.7 | 291.6 |
| 57.5° | 2096.7 | 1271.3 | 274.7 | 278.7 | 323.0 | 393.4 | 419.7 | 361.8 | 311.8 | 286.7 | 281.4 |
| 60° | 2049.2 | 1138.9 | 254.3 | 261.7 | 300.5 | 365.6 | 389.2 | 345.5 | 297.6 | 276.1 | 271.7 |
| 62.5° | 1929.8 | 1003.4 | 239.2 | 246.5 | 279.5 | 337.4 | 370.1 | 328.3 | 283.1 | 264.1 | 259.6 |
| 65° | 1688.7 | 842.4 | 224.8 | 232.9 | 260.0 | 313.0 | 352.9 | 312.4 | 268.9 | 254.3 | 250.1 |
| 67.5° | 1274.7 | 631.0 | 211.2 | 218.5 | 242.6 | 291.8 | 334.3 | 296.7 | 255.1 | 245.8 | 240.7 |
| 70° | 750.6 | 395.1 | 195.8 | 203.4 | 224.4 | 269.8 | 314.3 | 279.5 | 238.0 | 233.7 | 227.2 |
| 72.5° | 349.3 | 237.8 | 178.2 | 185.6 | 201.5 | 240.3 | 288.7 | 257.1 | 217.6 | 208.3 | 199.4 |
| 75° | 208.5 | 173.9 | 157.4 | 163.9 | 175.2 | 208.9 | 256.4 | 234.1 | 198.3 | 186.0 | 176.7 |
| 77.5° | 155.9 | 133.0 | 134.5 | 141.5 | 150.6 | 182.8 | 227.2 | 216.1 | 183.5 | 173.9 | 167.6 |
| 80° | 112.2 | 101.0 | 109.7 | 117.3 | 126.8 | 166.3 | 217.6 | 199.8 | 165.9 | 153.1 | 147.2 |
| 82.5° | 74.9 | 72.5 | 82.5 | 90.4 | 99.7 | 145.5 | 204.5 | 175.0 | 141.7 | 125.6 | 112.4 |
| 85° | 41.4 | 43.7 | 55.6 | 59.0 | 67.0 | 102.4 | 167.6 | 140.6 | 106.7 | 85.9 | 82.1 |
| 87.5° | 17.2 | 20.1 | 29.9 | 28.8 | 35.6 | 61.1 | 110.3 | 84.8 | 67.9 | 50.7 | 39.4 |
| 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)