

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: P385425

Luminaire Tested: GAW-SA1A-722-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1A-722-U-T4W
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

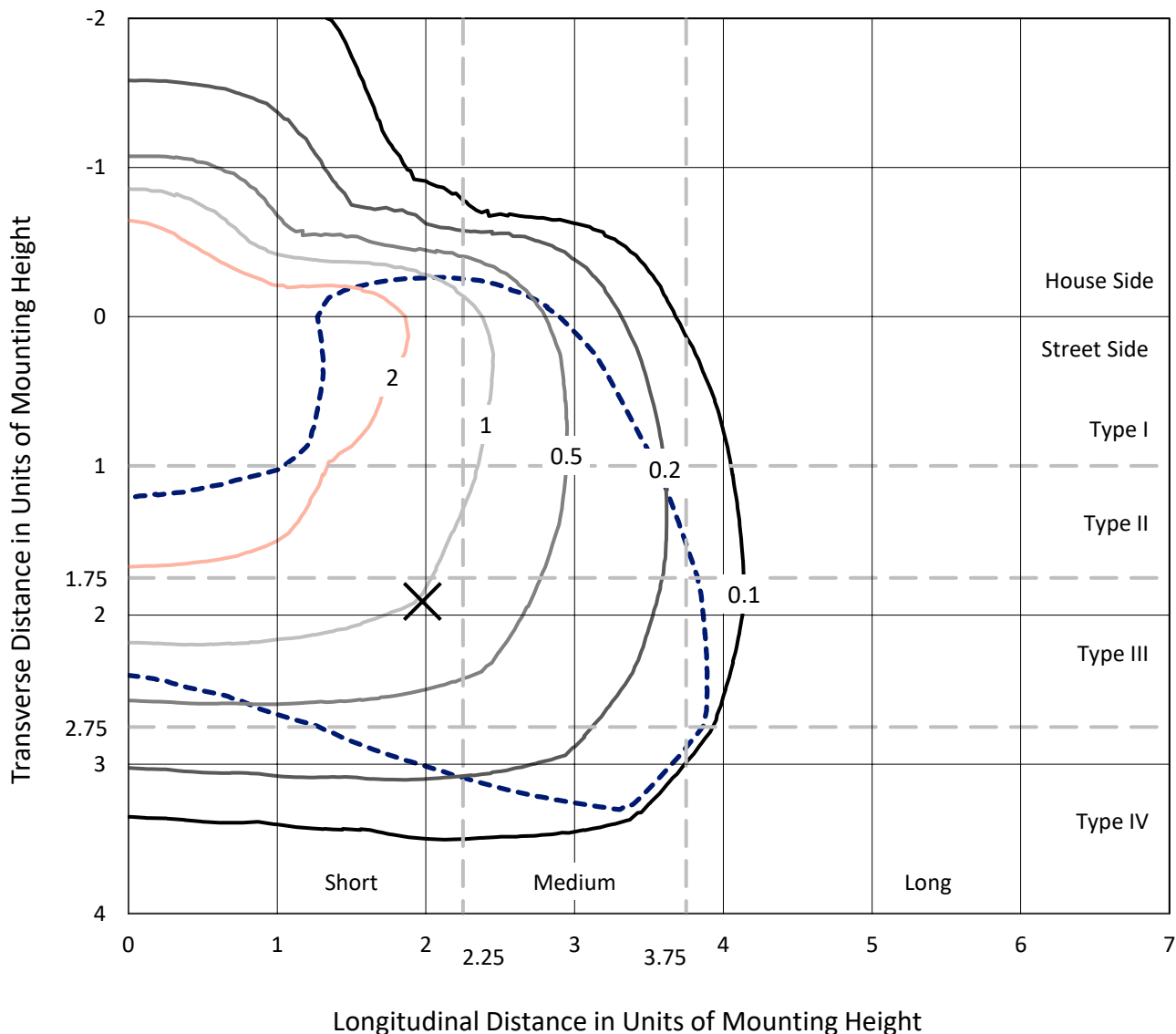
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

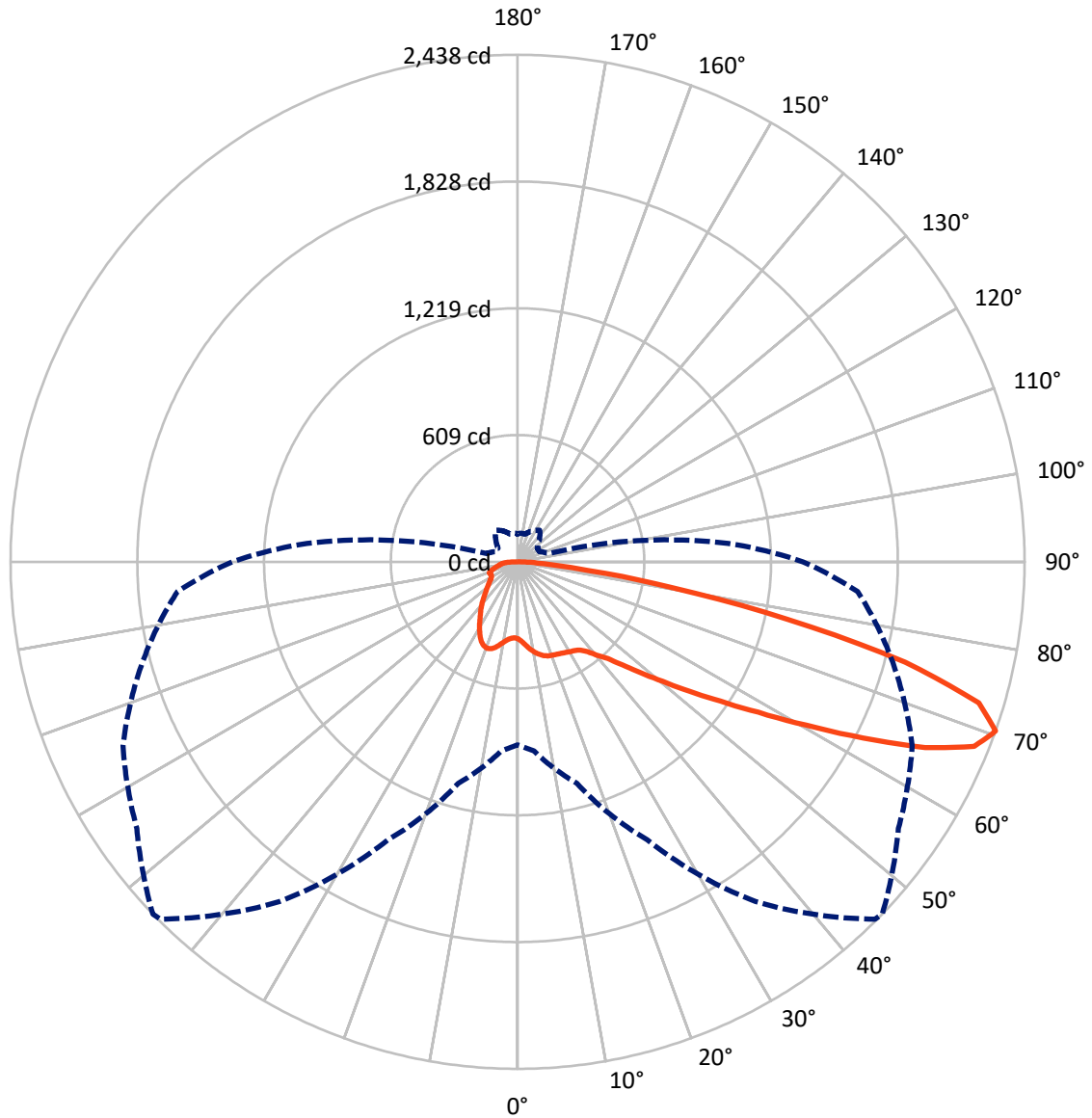
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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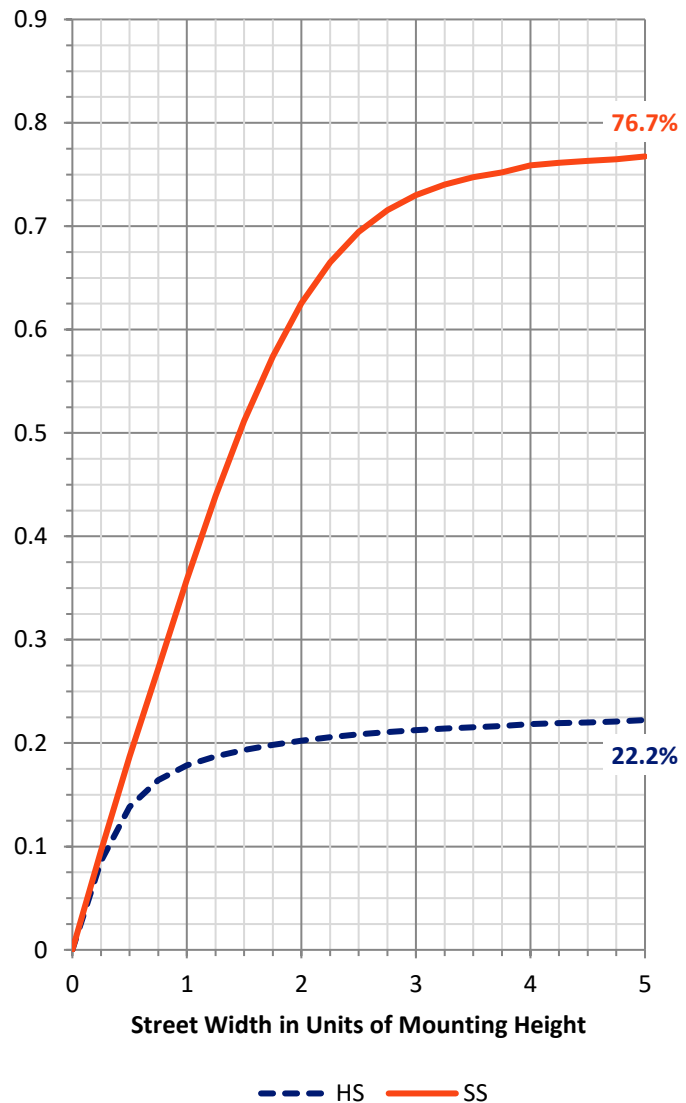
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 832.7 | 0.0 | 832.7 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 2800.3 | 0.0 | 2800.3 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 3633.0 | 0.0 | 3633.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.7 | 1.0 |
| 10°-20° | 125.7 | 3.5 |
| 20°-30° | 209.6 | 5.8 |
| 30°-40° | 297.5 | 8.2 |
| 40°-50° | 437.5 | 12.0 |
| 50°-60° | 741.0 | 20.4 |
| 60°-70° | 1051.8 | 29.0 |
| 70°-80° | 639.0 | 17.6 |
| 80°-90° | 93.3 | 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° | 3633.0 | 100.0 |
| 0°-180° | 3633.0 | 100.0 |

Coefficient of Utilization



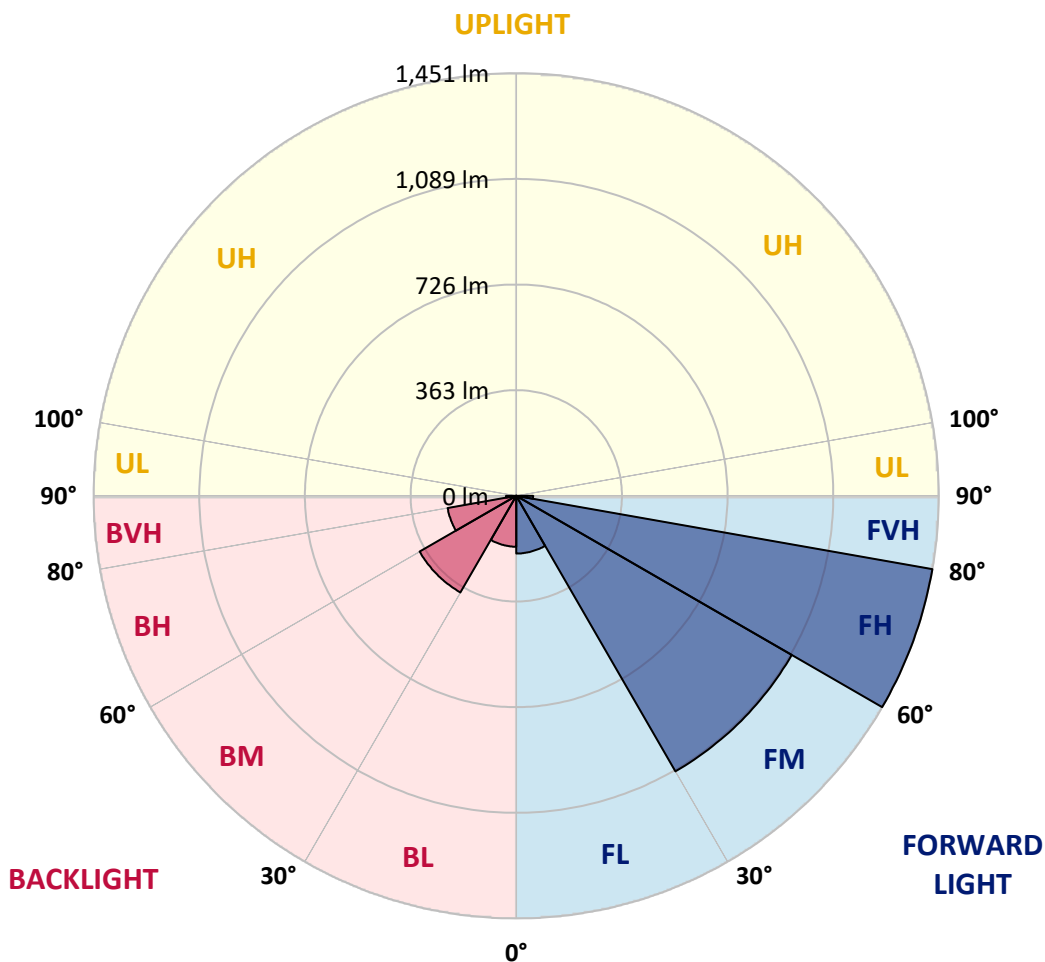
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 198.2 | 5.5 | | | |
| FM (30°-60°) | 1092.6 | 30.1 | | | |
| FH (60°-80°) | 1451.4 | 39.9 | | | G1/1800 |
| FVH (80°-90°) | 58.1 | 1.6 | | | G1/100 |
| BL (0°-30°) | 174.8 | 4.8 | B1/500 | | |
| BM (30°-60°) | 383.3 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 239.4 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.2 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 |
| 2.5° | 388.7 | 388.9 | 389.4 | 388.2 | 384.7 | 383.7 | 383.3 | 379.7 | 377.3 | 373.9 | 370.9 |
| 5° | 419.7 | 420.0 | 419.2 | 415.8 | 408.1 | 402.3 | 401.8 | 393.6 | 386.2 | 378.2 | 372.2 |
| 7.5° | 452.2 | 452.6 | 450.2 | 443.6 | 432.8 | 422.8 | 422.2 | 411.0 | 399.7 | 387.7 | 378.7 |
| 10° | 480.9 | 479.4 | 475.6 | 466.4 | 453.6 | 441.4 | 440.9 | 429.2 | 416.1 | 401.6 | 389.7 |
| 12.5° | 500.1 | 498.8 | 493.8 | 482.7 | 468.6 | 457.4 | 456.4 | 445.6 | 432.9 | 417.0 | 402.7 |
| 15° | 510.6 | 511.5 | 504.8 | 492.1 | 478.4 | 469.0 | 468.1 | 460.4 | 449.1 | 433.0 | 416.6 |
| 17.5° | 512.0 | 512.7 | 506.3 | 493.7 | 482.5 | 476.1 | 475.7 | 470.6 | 462.4 | 447.0 | 429.8 |
| 20° | 504.0 | 504.5 | 499.2 | 488.9 | 481.5 | 479.5 | 479.4 | 477.2 | 471.1 | 457.4 | 440.8 |
| 22.5° | 492.5 | 492.8 | 489.0 | 481.5 | 479.0 | 482.2 | 483.0 | 482.2 | 477.8 | 465.0 | 449.3 |
| 25° | 489.6 | 489.4 | 485.4 | 477.8 | 479.9 | 486.5 | 487.6 | 488.0 | 485.0 | 473.8 | 460.3 |
| 27.5° | 503.4 | 502.5 | 495.0 | 482.8 | 484.1 | 492.1 | 493.6 | 497.2 | 495.3 | 485.5 | 472.7 |
| 30° | 543.3 | 541.8 | 526.3 | 501.7 | 495.0 | 499.1 | 500.9 | 506.6 | 507.0 | 498.8 | 489.2 |
| 32.5° | 610.7 | 608.8 | 581.0 | 537.0 | 513.2 | 506.1 | 507.9 | 516.5 | 521.1 | 514.7 | 504.4 |
| 35° | 695.9 | 693.8 | 657.2 | 597.0 | 543.8 | 519.7 | 520.9 | 527.8 | 537.0 | 528.0 | 514.4 |
| 37.5° | 784.6 | 779.6 | 744.4 | 667.7 | 592.4 | 548.7 | 548.7 | 549.5 | 553.9 | 535.2 | 526.0 |
| 40° | 872.9 | 867.8 | 836.0 | 750.7 | 655.3 | 594.3 | 591.4 | 572.2 | 568.7 | 552.6 | 549.5 |
| 42.5° | 955.0 | 953.5 | 934.7 | 844.6 | 729.2 | 639.2 | 635.2 | 602.5 | 603.3 | 593.3 | 593.4 |
| 45° | 1042.3 | 1042.3 | 1027.0 | 939.3 | 815.2 | 711.3 | 707.3 | 659.2 | 666.7 | 662.1 | 673.1 |
| 47.5° | 1113.5 | 1115.7 | 1113.6 | 1038.0 | 915.3 | 802.9 | 795.7 | 737.8 | 758.7 | 774.5 | 806.7 |
| 50° | 1186.2 | 1189.7 | 1190.1 | 1146.3 | 1036.3 | 911.8 | 903.6 | 842.1 | 888.7 | 934.0 | 997.3 |
| 52.5° | 1291.8 | 1299.6 | 1268.4 | 1254.4 | 1184.5 | 1041.1 | 1033.1 | 976.2 | 1054.1 | 1117.6 | 1226.6 |
| 55° | 1389.6 | 1382.8 | 1360.5 | 1369.3 | 1343.1 | 1188.3 | 1182.3 | 1132.4 | 1238.3 | 1320.9 | 1462.5 |
| 57.5° | 1442.6 | 1442.1 | 1464.5 | 1501.8 | 1514.2 | 1369.9 | 1364.8 | 1316.3 | 1446.1 | 1508.1 | 1683.9 |
| 60° | 1504.8 | 1505.6 | 1561.1 | 1645.8 | 1697.0 | 1595.9 | 1593.7 | 1556.9 | 1647.9 | 1682.9 | 1857.6 |
| 62.5° | 1513.5 | 1529.1 | 1624.6 | 1770.3 | 1868.1 | 1860.0 | 1865.0 | 1773.6 | 1828.4 | 1822.4 | 1987.3 |
| 65° | 1413.4 | 1434.0 | 1606.8 | 1808.0 | 2038.1 | 2148.8 | 2153.4 | 1991.5 | 1970.8 | 1941.7 | 2033.7 |
| 67.5° | 1208.2 | 1238.8 | 1426.6 | 1726.1 | 2094.2 | 2362.3 | 2368.7 | 2160.5 | 2088.9 | 1982.1 | 1922.0 |
| 70° | 879.3 | 913.2 | 1102.2 | 1474.2 | 1994.3 | 2430.5 | 2437.9 | 2235.2 | 2093.4 | 1867.1 | 1640.8 |
| 72.5° | 531.1 | 557.7 | 713.5 | 1085.3 | 1683.2 | 2306.2 | 2319.3 | 2140.5 | 1911.2 | 1581.5 | 1211.6 |
| 75° | 233.2 | 250.7 | 345.0 | 625.4 | 1205.0 | 1908.1 | 1924.4 | 1832.1 | 1552.9 | 1149.3 | 716.1 |
| 77.5° | 99.3 | 104.3 | 141.5 | 271.7 | 681.2 | 1303.9 | 1326.2 | 1338.7 | 1053.6 | 625.4 | 302.6 |
| 80° | 61.9 | 63.9 | 80.1 | 123.0 | 318.8 | 732.3 | 756.4 | 787.6 | 523.2 | 229.9 | 105.7 |
| 82.5° | 37.7 | 39.9 | 53.2 | 74.3 | 166.0 | 332.0 | 343.5 | 365.5 | 203.0 | 99.3 | 54.7 |
| 85° | 22.6 | 24.2 | 32.6 | 47.0 | 94.5 | 130.5 | 130.4 | 144.2 | 95.6 | 63.9 | 28.8 |
| 87.5° | 10.8 | 12.1 | 17.4 | 24.4 | 47.6 | 49.0 | 45.9 | 52.0 | 58.1 | 41.9 | 14.5 |
| 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° | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 |
| 2.5° | 369.9 | 369.4 | 367.8 | 366.5 | 366.3 | 365.5 | 364.9 | 365.3 | 365.8 | 365.9 | 365.9 |
| 5° | 369.8 | 368.4 | 366.3 | 365.4 | 366.5 | 368.0 | 369.9 | 372.4 | 373.9 | 375.0 | 375.7 |
| 7.5° | 375.7 | 373.1 | 370.8 | 370.3 | 372.5 | 376.5 | 380.7 | 385.9 | 389.5 | 392.0 | 392.5 |
| 10° | 385.7 | 382.4 | 380.1 | 380.6 | 384.6 | 390.3 | 396.2 | 403.0 | 408.4 | 411.8 | 412.0 |
| 12.5° | 397.1 | 394.0 | 391.8 | 393.9 | 400.5 | 407.4 | 413.6 | 419.5 | 424.5 | 427.8 | 427.8 |
| 15° | 410.3 | 408.1 | 405.4 | 410.3 | 419.2 | 425.5 | 428.1 | 430.9 | 433.7 | 436.2 | 435.7 |
| 17.5° | 423.0 | 420.9 | 419.5 | 425.2 | 434.5 | 437.4 | 435.7 | 433.5 | 433.5 | 434.9 | 435.2 |
| 20° | 433.9 | 432.0 | 432.9 | 438.5 | 443.4 | 440.4 | 433.9 | 427.2 | 424.5 | 425.2 | 426.0 |
| 22.5° | 443.5 | 442.6 | 445.2 | 447.8 | 444.4 | 433.9 | 422.0 | 412.9 | 409.5 | 409.3 | 409.5 |
| 25° | 454.7 | 454.6 | 457.8 | 453.1 | 437.6 | 418.4 | 402.3 | 393.5 | 391.6 | 393.1 | 395.6 |
| 27.5° | 468.6 | 470.0 | 471.6 | 454.3 | 424.0 | 394.9 | 378.6 | 372.5 | 374.4 | 378.0 | 380.3 |
| 30° | 486.4 | 490.1 | 486.6 | 451.2 | 404.3 | 368.0 | 352.5 | 350.7 | 355.8 | 360.9 | 363.4 |
| 32.5° | 503.7 | 509.5 | 501.1 | 443.1 | 379.0 | 339.5 | 327.5 | 327.0 | 333.2 | 338.2 | 341.7 |
| 35° | 517.6 | 529.2 | 511.9 | 427.1 | 349.6 | 313.3 | 304.5 | 301.1 | 303.4 | 309.2 | 313.2 |
| 37.5° | 535.7 | 555.0 | 519.3 | 402.6 | 317.8 | 291.7 | 281.4 | 273.7 | 271.7 | 274.0 | 276.0 |
| 40° | 568.9 | 594.4 | 522.8 | 368.4 | 286.7 | 270.0 | 259.6 | 248.3 | 240.5 | 234.7 | 234.9 |
| 42.5° | 623.1 | 645.8 | 520.6 | 326.9 | 258.0 | 248.9 | 237.1 | 224.0 | 211.4 | 198.4 | 197.4 |
| 45° | 711.2 | 722.1 | 513.9 | 282.9 | 232.7 | 226.8 | 215.7 | 202.7 | 185.7 | 171.1 | 169.7 |
| 47.5° | 852.0 | 827.8 | 503.4 | 244.4 | 210.5 | 208.0 | 197.8 | 182.8 | 164.9 | 153.1 | 152.1 |
| 50° | 1044.1 | 980.3 | 498.3 | 213.8 | 190.8 | 191.6 | 183.3 | 167.3 | 150.4 | 141.7 | 140.7 |
| 52.5° | 1273.9 | 1158.0 | 508.1 | 190.2 | 175.1 | 177.7 | 171.5 | 156.5 | 142.4 | 135.5 | 134.5 |
| 55° | 1512.2 | 1342.0 | 518.7 | 173.1 | 160.1 | 165.2 | 163.1 | 150.8 | 138.0 | 131.7 | 130.8 |
| 57.5° | 1716.3 | 1479.4 | 497.6 | 159.1 | 146.8 | 154.8 | 156.7 | 147.2 | 135.8 | 130.0 | 129.1 |
| 60° | 1844.7 | 1534.7 | 442.1 | 146.1 | 136.3 | 146.5 | 152.9 | 146.2 | 136.6 | 136.1 | 135.4 |
| 62.5° | 1905.6 | 1529.9 | 358.9 | 135.8 | 129.7 | 142.9 | 155.7 | 151.8 | 146.6 | 151.1 | 151.4 |
| 65° | 1878.3 | 1456.8 | 267.3 | 128.9 | 125.0 | 144.2 | 163.9 | 162.4 | 149.4 | 153.9 | 154.5 |
| 67.5° | 1698.2 | 1282.3 | 197.9 | 123.0 | 119.7 | 148.1 | 178.8 | 165.9 | 143.9 | 147.1 | 145.1 |
| 70° | 1372.6 | 1016.6 | 152.7 | 116.2 | 114.4 | 147.6 | 185.5 | 163.7 | 137.8 | 138.5 | 133.2 |
| 72.5° | 946.5 | 693.3 | 124.2 | 110.0 | 106.7 | 134.5 | 180.8 | 158.5 | 132.7 | 126.9 | 119.9 |
| 75° | 514.7 | 372.1 | 105.6 | 103.6 | 93.1 | 118.1 | 172.1 | 154.8 | 128.1 | 120.5 | 116.5 |
| 77.5° | 202.5 | 154.4 | 91.6 | 94.7 | 81.4 | 104.3 | 162.4 | 147.7 | 121.7 | 111.8 | 109.8 |
| 80° | 82.7 | 78.8 | 76.0 | 81.9 | 70.0 | 91.3 | 150.7 | 139.4 | 114.1 | 103.7 | 99.7 |
| 82.5° | 46.9 | 49.0 | 59.1 | 64.7 | 56.8 | 84.0 | 145.1 | 132.7 | 105.1 | 92.9 | 88.2 |
| 85° | 24.0 | 28.7 | 41.2 | 46.4 | 41.8 | 71.5 | 133.7 | 116.1 | 84.3 | 71.1 | 71.5 |
| 87.5° | 11.6 | 16.0 | 26.0 | 29.1 | 27.1 | 51.7 | 99.8 | 84.2 | 65.6 | 52.0 | 50.4 |
| 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)