

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P193190

Luminaire Tested: **GAN-AF-02-LED-U-T3-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11781.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

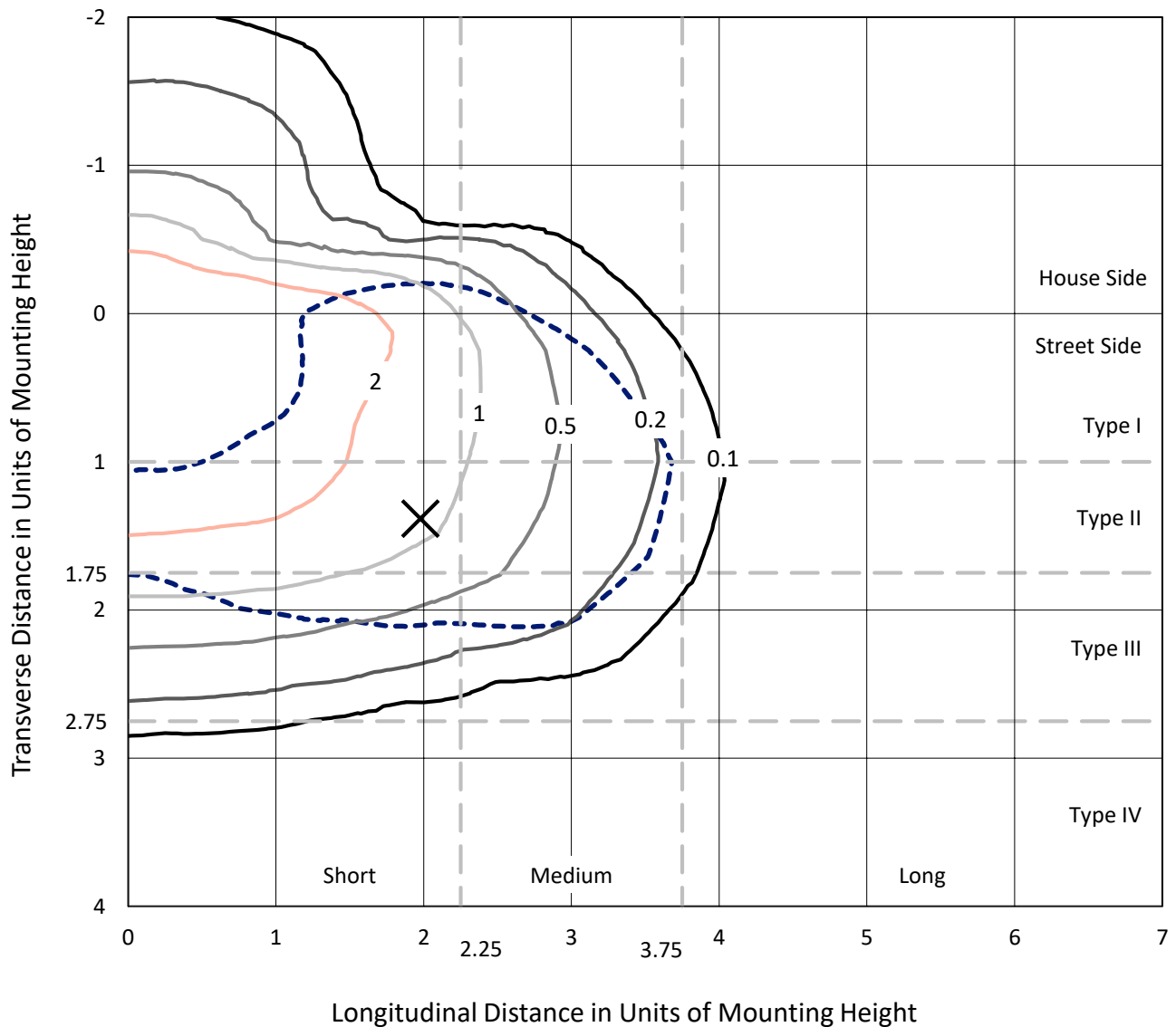
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

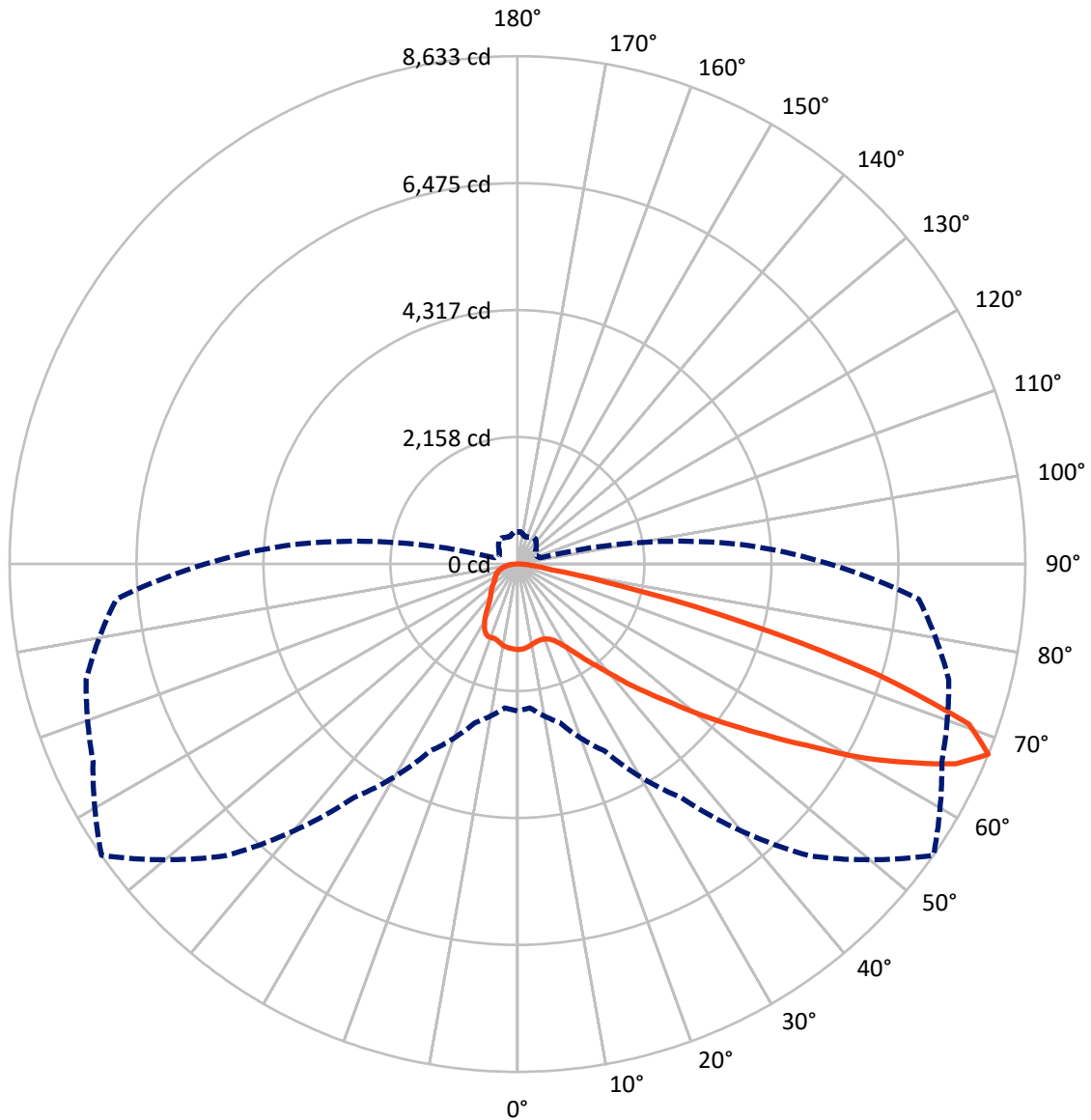
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2545.0 | 0.0 | 2545.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 9236.4 | 0.0 | 9236.4 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 11781.4 | 0.0 | 11781.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 135.6 | 1.2 |
| 10°-20° | 384.0 | 3.3 |
| 20°-30° | 643.3 | 5.5 |
| 30°-40° | 1057.9 | 9.0 |
| 40°-50° | 1780.8 | 15.1 |
| 50°-60° | 2802.8 | 23.8 |
| 60°-70° | 3344.8 | 28.4 |
| 70°-80° | 1436.3 | 12.2 |
| 80°-90° | 195.8 | 1.7 |
| 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° | 11781.4 | 100.0 |
| 0°-180° | 11781.4 | 100.0 |

Coefficient of Utilization



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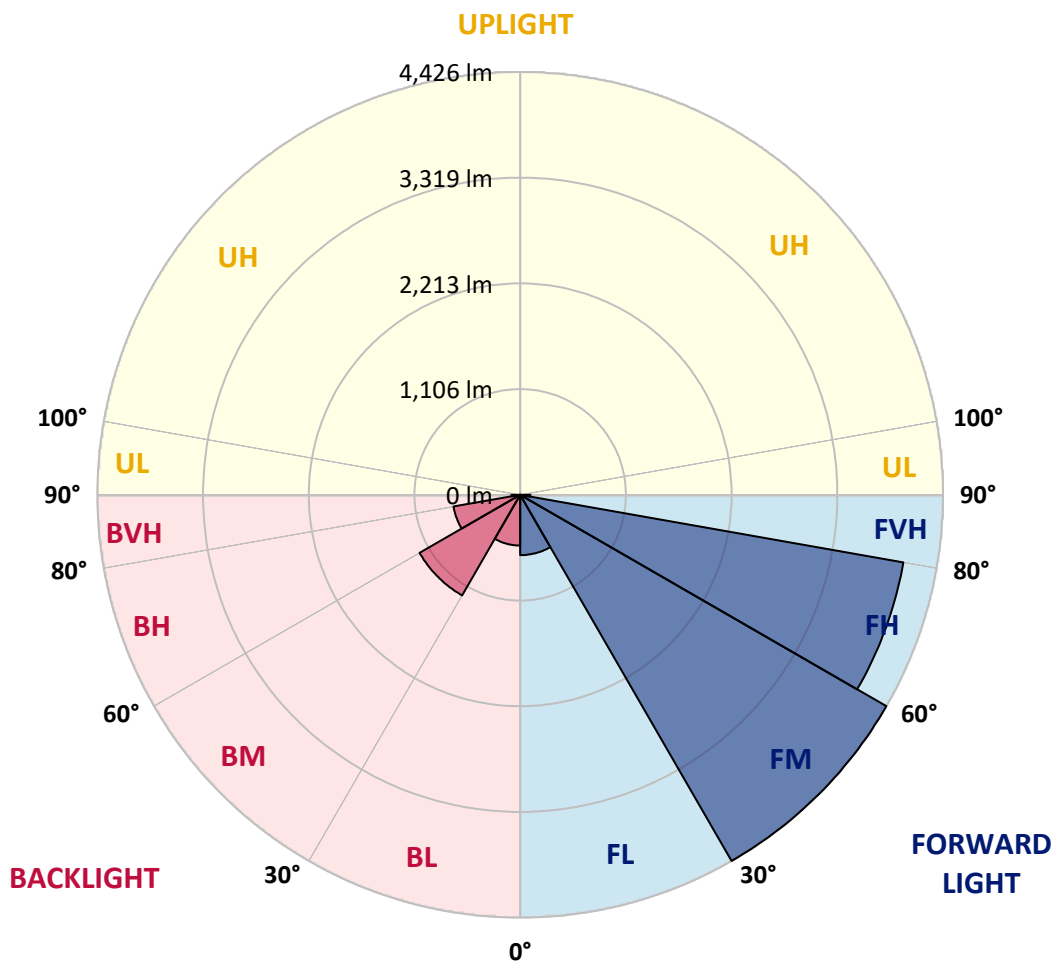
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 631.5 | 5.4 | | | |
| FM | (30°-60°) | 4426.0 | 37.6 | | | |
| FH | (60°-80°) | 4072.9 | 34.6 | | | G2/5000 |
| FVH | (80°-90°) | 106.0 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 531.5 | 4.5 | B2/1000 | | |
| BM | (30°-60°) | 1215.5 | 10.3 | B2/2500 | | |
| BH | (60°-80°) | 708.3 | 6.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 89.8 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 |
| 2.5° | 1440.2 | 1440.8 | 1442.0 | 1446.5 | 1450.5 | 1449.4 | 1450.0 | 1447.6 | 1447.1 | 1443.7 | 1447.1 |
| 5° | 1422.0 | 1423.7 | 1424.3 | 1431.8 | 1436.3 | 1437.5 | 1435.6 | 1432.8 | 1429.4 | 1426.1 | 1427.7 |
| 7.5° | 1380.5 | 1385.1 | 1385.6 | 1395.9 | 1403.3 | 1412.9 | 1413.5 | 1414.1 | 1412.4 | 1410.1 | 1413.5 |
| 10° | 1354.4 | 1355.5 | 1355.0 | 1362.4 | 1368.0 | 1378.9 | 1385.1 | 1395.9 | 1400.3 | 1401.6 | 1403.9 |
| 12.5° | 1352.6 | 1351.5 | 1349.8 | 1349.8 | 1348.0 | 1352.6 | 1364.0 | 1379.4 | 1390.3 | 1393.6 | 1396.5 |
| 15° | 1370.8 | 1370.2 | 1364.5 | 1356.0 | 1345.2 | 1341.8 | 1351.5 | 1368.6 | 1382.7 | 1390.3 | 1393.0 |
| 17.5° | 1411.8 | 1408.4 | 1399.3 | 1380.0 | 1356.6 | 1347.5 | 1348.7 | 1362.9 | 1379.4 | 1389.0 | 1391.9 |
| 20° | 1486.9 | 1486.9 | 1467.6 | 1431.2 | 1389.7 | 1368.0 | 1357.8 | 1366.3 | 1382.2 | 1395.4 | 1399.3 |
| 22.5° | 1616.7 | 1617.8 | 1585.4 | 1525.6 | 1455.7 | 1409.6 | 1383.9 | 1382.2 | 1401.0 | 1415.8 | 1420.4 |
| 25° | 1800.5 | 1795.9 | 1750.5 | 1665.0 | 1558.6 | 1482.3 | 1438.0 | 1427.7 | 1443.7 | 1460.1 | 1465.8 |
| 27.5° | 2014.4 | 1998.0 | 1943.8 | 1840.9 | 1703.2 | 1591.6 | 1523.3 | 1506.8 | 1522.2 | 1541.0 | 1546.7 |
| 30° | 2226.1 | 2209.0 | 2144.8 | 2032.1 | 1879.0 | 1737.9 | 1640.0 | 1613.2 | 1634.8 | 1661.7 | 1665.0 |
| 32.5° | 2437.8 | 2437.8 | 2366.1 | 2234.7 | 2068.0 | 1912.6 | 1795.3 | 1763.5 | 1799.3 | 1831.7 | 1839.2 |
| 35° | 2691.0 | 2692.1 | 2622.8 | 2464.6 | 2285.2 | 2120.8 | 1991.7 | 1968.3 | 2022.4 | 2045.2 | 2062.9 |
| 37.5° | 3002.3 | 3008.6 | 2919.2 | 2727.9 | 2531.6 | 2358.7 | 2205.1 | 2173.1 | 2227.2 | 2289.3 | 2346.3 |
| 40° | 3338.6 | 3346.6 | 3248.2 | 3012.5 | 2816.2 | 2635.3 | 2469.2 | 2411.6 | 2501.5 | 2619.9 | 2693.3 |
| 42.5° | 3659.5 | 3700.5 | 3605.4 | 3363.1 | 3151.9 | 2964.8 | 2796.3 | 2712.7 | 2825.3 | 3004.0 | 3067.8 |
| 45° | 4123.3 | 4153.0 | 3987.3 | 3767.7 | 3569.1 | 3359.6 | 3136.7 | 3048.4 | 3206.0 | 3431.4 | 3444.4 |
| 47.5° | 4432.3 | 4410.1 | 4325.9 | 4189.3 | 4063.6 | 3867.8 | 3532.1 | 3435.3 | 3644.8 | 3910.0 | 3836.5 |
| 50° | 4596.7 | 4603.6 | 4592.1 | 4600.2 | 4604.7 | 4481.9 | 4016.9 | 3884.2 | 4134.2 | 4454.5 | 4285.4 |
| 52.5° | 4750.4 | 4704.9 | 4742.4 | 4929.1 | 5154.5 | 5109.0 | 4544.4 | 4406.1 | 4658.9 | 5058.8 | 4760.1 |
| 55° | 4747.0 | 4677.6 | 4799.9 | 5129.4 | 5618.2 | 5670.5 | 5136.9 | 4977.5 | 5213.7 | 5706.9 | 5263.1 |
| 57.5° | 4579.2 | 4582.6 | 4771.0 | 5202.3 | 5941.4 | 6198.6 | 5824.2 | 5585.3 | 5802.0 | 6363.7 | 5722.4 |
| 60° | 4348.1 | 4379.4 | 4650.8 | 5190.3 | 6200.4 | 6631.7 | 6667.5 | 6240.2 | 6378.4 | 6960.6 | 6102.4 |
| 62.5° | 3975.4 | 4008.4 | 4382.8 | 5066.3 | 6161.1 | 7048.8 | 7430.0 | 6983.3 | 6981.1 | 7322.5 | 6214.0 |
| 65° | 3387.6 | 3377.9 | 3771.1 | 4602.4 | 5831.6 | 7357.2 | 8187.5 | 7625.9 | 7435.2 | 7328.2 | 5989.8 |
| 67.5° | 2498.1 | 2454.8 | 2792.3 | 3505.4 | 4847.2 | 7011.8 | 8633.0 | 7960.4 | 7589.9 | 6846.1 | 5304.6 |
| 70° | 1296.3 | 1253.1 | 1526.2 | 2046.9 | 3187.8 | 5472.6 | 8139.7 | 7787.5 | 7247.9 | 5738.9 | 4155.7 |
| 72.5° | 554.3 | 546.9 | 657.8 | 898.0 | 1542.0 | 3156.5 | 6382.5 | 6740.4 | 6219.1 | 4275.9 | 2857.2 |
| 75° | 372.7 | 370.5 | 412.0 | 489.4 | 693.7 | 1280.9 | 3994.2 | 4784.6 | 4550.1 | 2651.1 | 1606.9 |
| 77.5° | 292.5 | 289.6 | 314.1 | 351.7 | 449.6 | 505.4 | 1772.6 | 2568.6 | 2377.5 | 1154.0 | 703.3 |
| 80° | 228.8 | 226.5 | 241.8 | 262.3 | 323.2 | 318.7 | 583.2 | 1022.0 | 790.9 | 442.2 | 342.0 |
| 82.5° | 180.4 | 180.4 | 193.0 | 193.5 | 229.3 | 217.4 | 304.4 | 450.1 | 395.0 | 257.8 | 209.4 |
| 85° | 165.0 | 165.0 | 178.1 | 144.5 | 149.6 | 137.1 | 188.9 | 266.9 | 250.4 | 105.9 | 91.0 |
| 87.5° | 83.0 | 80.9 | 149.6 | 128.1 | 81.4 | 72.8 | 92.3 | 129.2 | 138.9 | 58.6 | 45.6 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 |
| 2.5° | 1445.9 | 1445.4 | 1446.5 | 1447.1 | 1451.6 | 1457.8 | 1460.8 | 1464.7 | 1467.1 | 1465.8 |
| 5° | 1428.9 | 1429.9 | 1434.6 | 1438.0 | 1445.9 | 1456.2 | 1461.9 | 1466.5 | 1470.4 | 1468.7 |
| 7.5° | 1414.7 | 1417.5 | 1424.3 | 1427.2 | 1431.8 | 1434.6 | 1434.0 | 1435.6 | 1439.2 | 1435.1 |
| 10° | 1406.7 | 1410.1 | 1415.2 | 1411.2 | 1400.3 | 1385.1 | 1370.8 | 1363.4 | 1365.7 | 1362.9 |
| 12.5° | 1398.7 | 1403.3 | 1399.3 | 1380.5 | 1350.3 | 1330.4 | 1319.7 | 1320.7 | 1325.9 | 1327.1 |
| 15° | 1394.1 | 1395.9 | 1378.9 | 1343.6 | 1312.8 | 1309.9 | 1315.6 | 1314.5 | 1315.1 | 1315.1 |
| 17.5° | 1394.1 | 1389.7 | 1357.8 | 1322.5 | 1309.4 | 1304.2 | 1286.6 | 1264.4 | 1254.8 | 1251.3 |
| 20° | 1401.6 | 1389.7 | 1350.9 | 1327.6 | 1299.1 | 1255.3 | 1208.6 | 1167.7 | 1149.5 | 1144.4 |
| 22.5° | 1423.7 | 1403.3 | 1370.2 | 1329.9 | 1249.1 | 1175.6 | 1101.7 | 1052.7 | 1019.7 | 1014.0 |
| 25° | 1468.7 | 1445.9 | 1408.4 | 1299.7 | 1169.4 | 1064.7 | 980.5 | 925.9 | 892.8 | 888.3 |
| 27.5° | 1547.2 | 1532.5 | 1428.9 | 1233.1 | 1063.5 | 951.4 | 873.5 | 831.4 | 806.9 | 805.2 |
| 30° | 1665.5 | 1658.2 | 1418.6 | 1134.6 | 933.3 | 841.7 | 804.0 | 779.6 | 761.4 | 760.8 |
| 32.5° | 1854.5 | 1794.8 | 1385.1 | 1014.6 | 814.3 | 763.6 | 748.3 | 733.4 | 719.3 | 719.3 |
| 35° | 2097.6 | 1905.2 | 1321.4 | 886.0 | 742.1 | 720.4 | 701.1 | 677.7 | 659.0 | 657.8 |
| 37.5° | 2383.2 | 1973.4 | 1207.0 | 782.4 | 707.9 | 691.4 | 662.9 | 628.2 | 595.3 | 589.6 |
| 40° | 2671.7 | 1994.0 | 1045.9 | 718.7 | 686.2 | 662.3 | 627.7 | 586.7 | 554.8 | 553.1 |
| 42.5° | 2936.3 | 1954.6 | 875.1 | 674.9 | 664.7 | 632.8 | 596.3 | 560.0 | 535.0 | 534.4 |
| 45° | 3158.2 | 1852.8 | 731.8 | 633.3 | 641.9 | 606.1 | 573.6 | 544.0 | 524.7 | 520.7 |
| 47.5° | 3367.1 | 1708.9 | 631.1 | 589.6 | 619.2 | 591.2 | 563.9 | 536.0 | 517.3 | 514.4 |
| 50° | 3609.5 | 1553.4 | 560.5 | 546.9 | 599.2 | 586.0 | 571.9 | 542.9 | 511.6 | 508.2 |
| 52.5° | 3903.1 | 1419.2 | 505.4 | 509.2 | 583.9 | 592.9 | 592.4 | 562.2 | 507.6 | 503.0 |
| 55° | 4230.8 | 1270.1 | 463.8 | 478.5 | 577.6 | 605.6 | 597.5 | 580.3 | 511.0 | 504.1 |
| 57.5° | 4553.5 | 1096.0 | 434.8 | 455.3 | 568.4 | 604.3 | 573.1 | 548.6 | 519.0 | 509.2 |
| 60° | 4795.4 | 862.0 | 412.6 | 434.8 | 548.6 | 585.5 | 546.3 | 513.8 | 517.3 | 509.9 |
| 62.5° | 4811.3 | 666.4 | 385.8 | 417.2 | 518.4 | 566.7 | 528.6 | 498.4 | 524.7 | 517.8 |
| 65° | 4528.5 | 503.5 | 360.2 | 396.1 | 485.9 | 554.8 | 511.6 | 489.9 | 540.1 | 532.6 |
| 67.5° | 3812.6 | 405.2 | 338.6 | 374.4 | 453.5 | 529.8 | 496.2 | 482.0 | 553.7 | 540.7 |
| 70° | 2752.5 | 345.4 | 317.5 | 348.2 | 424.5 | 501.3 | 482.6 | 467.7 | 516.7 | 496.2 |
| 72.5° | 1694.6 | 299.4 | 293.6 | 313.6 | 402.3 | 471.8 | 462.0 | 441.0 | 465.5 | 448.9 |
| 75° | 846.2 | 259.5 | 266.9 | 279.3 | 371.1 | 438.1 | 428.0 | 406.9 | 410.3 | 406.9 |
| 77.5° | 405.2 | 221.9 | 235.6 | 245.3 | 330.6 | 400.0 | 389.2 | 367.6 | 363.7 | 364.2 |
| 80° | 256.6 | 185.5 | 198.7 | 205.4 | 295.3 | 355.6 | 344.8 | 323.2 | 368.8 | 342.0 |
| 82.5° | 160.5 | 150.8 | 154.2 | 166.7 | 257.2 | 309.5 | 295.3 | 276.0 | 332.3 | 262.9 |
| 85° | 88.7 | 105.3 | 109.8 | 120.6 | 198.0 | 259.0 | 244.7 | 220.2 | 197.4 | 194.1 |
| 87.5° | 52.9 | 62.6 | 64.4 | 72.2 | 133.2 | 187.3 | 165.6 | 157.0 | 130.3 | 129.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)