

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: P266716

Luminaire Tested: **GAN-AF-02-LED-U-T4FT-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10644.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

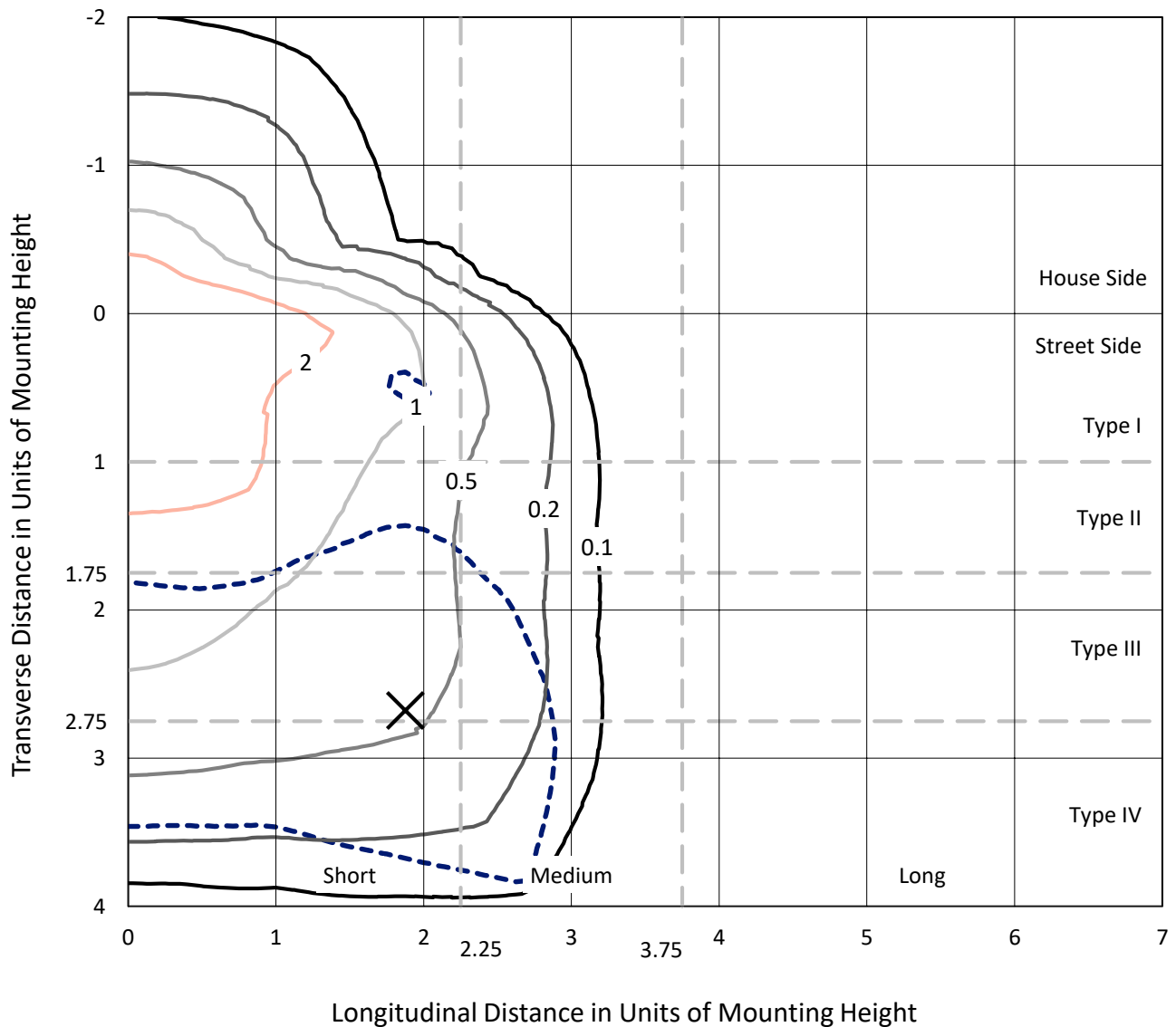


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

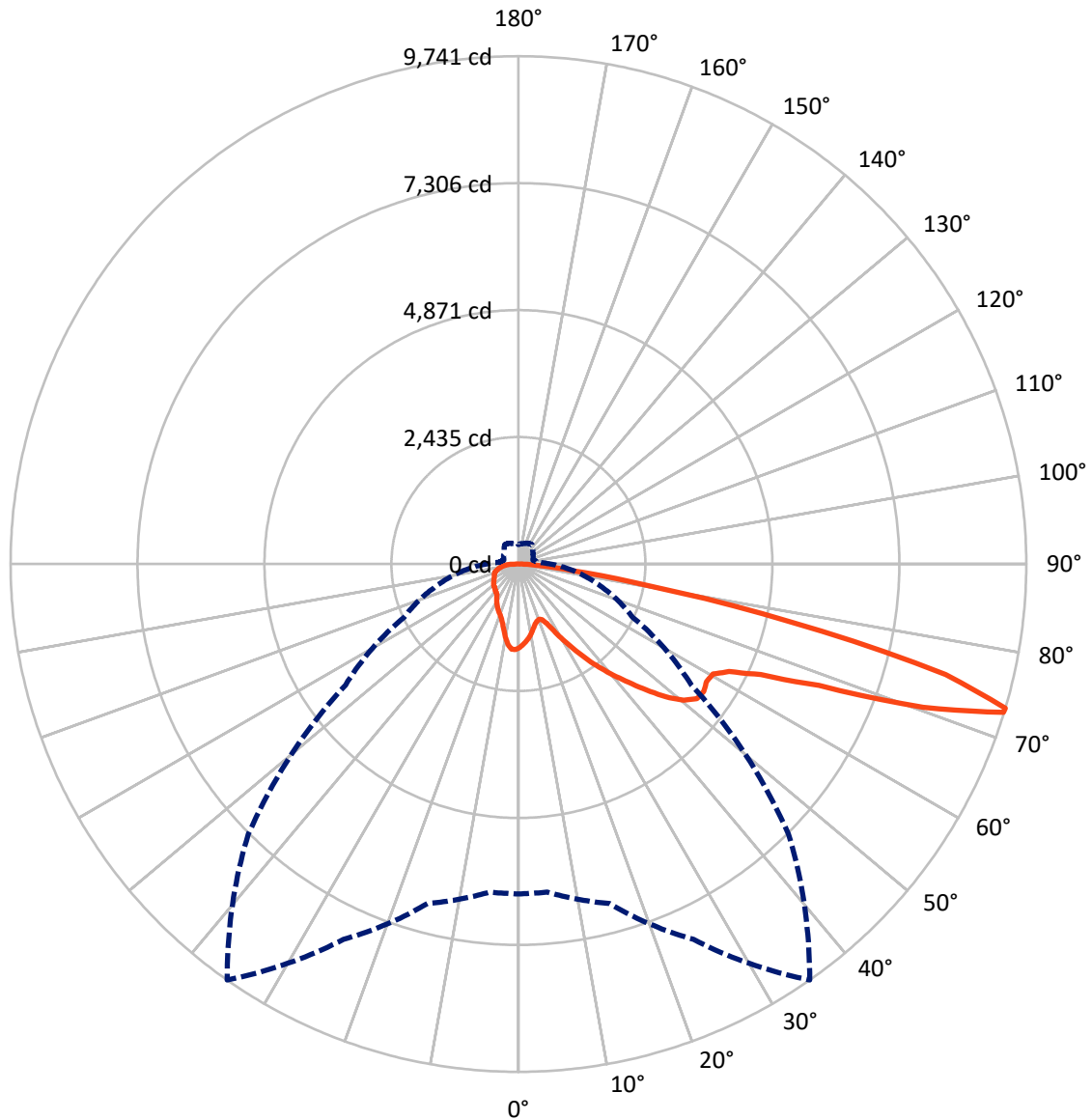


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2030.2 | 0.0 | 2030.2 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 8614.0 | 0.0 | 8614.0 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 10644.2 | 0.0 | 10644.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.4 | 1.4 |
| 10°-20° | 363.0 | 3.4 |
| 20°-30° | 586.8 | 5.5 |
| 30°-40° | 984.0 | 9.2 |
| 40°-50° | 1516.8 | 14.3 |
| 50°-60° | 2035.0 | 19.1 |
| 60°-70° | 2711.0 | 25.5 |
| 70°-80° | 2067.7 | 19.4 |
| 80°-90° | 234.4 | 2.2 |
| 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° | 10644.2 | 100.0 |
| 0°-180° | 10644.2 | 100.0 |

Coefficient of Utilization



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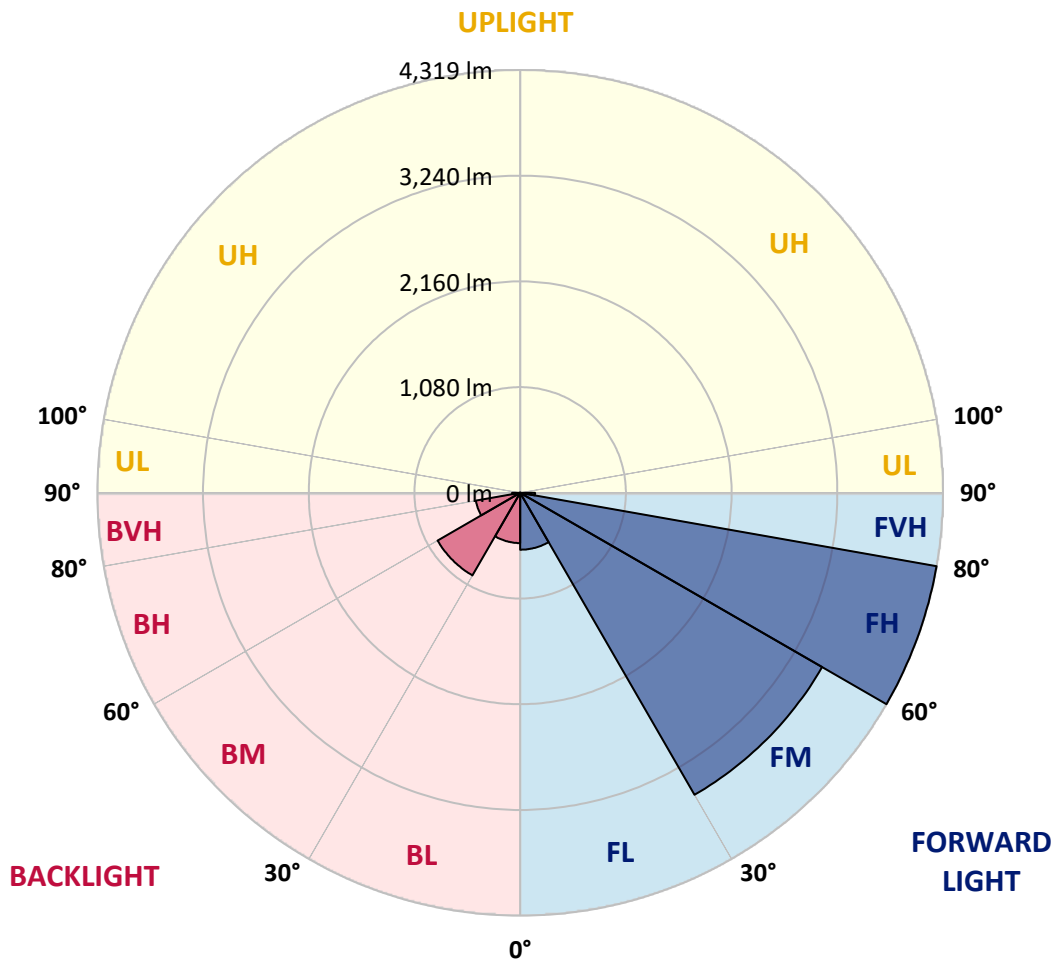
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 581.5 | 5.5 | | | |
| FM | (30°-60°) | 3561.6 | 33.5 | | | |
| FH | (60°-80°) | 4319.4 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 151.5 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 513.7 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 974.2 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 459.3 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 82.9 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 |
| 2.5° | 1543.2 | 1546.3 | 1542.6 | 1547.2 | 1554.8 | 1563.1 | 1568.7 | 1576.9 | 1586.0 | 1598.9 | 1601.9 |
| 5° | 1470.5 | 1475.1 | 1475.1 | 1483.3 | 1498.2 | 1511.5 | 1523.7 | 1537.0 | 1556.5 | 1578.4 | 1587.1 |
| 7.5° | 1390.8 | 1393.5 | 1398.0 | 1410.2 | 1431.7 | 1450.7 | 1468.0 | 1489.5 | 1516.1 | 1545.3 | 1560.5 |
| 10° | 1294.7 | 1298.3 | 1305.4 | 1322.8 | 1351.9 | 1378.1 | 1403.2 | 1432.7 | 1466.6 | 1502.8 | 1522.2 |
| 12.5° | 1226.7 | 1225.7 | 1228.8 | 1241.5 | 1267.1 | 1298.8 | 1335.2 | 1372.9 | 1414.3 | 1456.8 | 1480.2 |
| 15° | 1203.8 | 1198.1 | 1186.4 | 1183.2 | 1197.1 | 1228.8 | 1270.7 | 1317.3 | 1366.9 | 1418.0 | 1447.1 |
| 17.5° | 1218.0 | 1208.4 | 1176.2 | 1152.6 | 1150.5 | 1174.7 | 1219.1 | 1271.2 | 1328.5 | 1390.8 | 1427.0 |
| 20° | 1308.0 | 1285.0 | 1205.7 | 1151.1 | 1132.3 | 1143.9 | 1182.8 | 1238.0 | 1305.4 | 1388.3 | 1434.9 |
| 22.5° | 1523.3 | 1489.5 | 1321.2 | 1219.5 | 1155.7 | 1141.3 | 1170.5 | 1229.3 | 1308.0 | 1420.0 | 1479.2 |
| 25° | 1836.6 | 1788.4 | 1519.7 | 1390.3 | 1258.4 | 1182.3 | 1188.9 | 1249.3 | 1344.4 | 1493.6 | 1565.1 |
| 27.5° | 2084.0 | 2052.7 | 1778.9 | 1631.1 | 1445.6 | 1292.8 | 1248.7 | 1299.4 | 1418.5 | 1614.3 | 1687.2 |
| 30° | 2231.2 | 2212.3 | 2055.9 | 1904.0 | 1684.2 | 1468.5 | 1363.3 | 1393.5 | 1534.5 | 1781.3 | 1841.6 |
| 32.5° | 2401.9 | 2390.6 | 2313.9 | 2174.3 | 1941.9 | 1699.6 | 1544.6 | 1533.9 | 1689.8 | 1982.2 | 2009.9 |
| 35° | 2578.8 | 2575.1 | 2530.2 | 2429.9 | 2218.4 | 2004.2 | 1785.4 | 1712.9 | 1859.0 | 2190.7 | 2173.4 |
| 37.5° | 2743.3 | 2737.1 | 2711.2 | 2652.9 | 2507.7 | 2331.3 | 2030.8 | 1896.3 | 2041.5 | 2390.1 | 2313.0 |
| 40° | 3046.4 | 2998.5 | 2908.9 | 2865.0 | 2800.0 | 2606.8 | 2225.6 | 2067.5 | 2230.6 | 2580.3 | 2433.6 |
| 42.5° | 3416.0 | 3337.8 | 3171.1 | 3110.8 | 3101.7 | 2824.1 | 2358.4 | 2233.7 | 2421.3 | 2768.8 | 2552.2 |
| 45° | 3706.9 | 3633.3 | 3489.6 | 3413.4 | 3447.2 | 3020.9 | 2491.9 | 2411.1 | 2617.7 | 2966.7 | 2674.3 |
| 47.5° | 4017.1 | 3901.6 | 3711.4 | 3734.4 | 3808.1 | 3206.9 | 2627.8 | 2601.8 | 2832.7 | 3188.1 | 2826.2 |
| 50° | 4028.4 | 3940.0 | 3856.7 | 3994.1 | 4108.6 | 3378.2 | 2798.0 | 2801.6 | 3096.0 | 3466.6 | 3028.0 |
| 52.5° | 3794.8 | 3775.8 | 3908.3 | 4124.5 | 4289.5 | 3513.6 | 2991.7 | 3008.2 | 3432.9 | 3786.5 | 3249.9 |
| 55° | 3713.0 | 3691.6 | 3844.3 | 4078.9 | 4314.1 | 3625.6 | 3201.7 | 3231.5 | 3840.3 | 4123.8 | 3466.1 |
| 57.5° | 3912.3 | 3864.8 | 3875.0 | 4057.5 | 4254.3 | 3748.3 | 3430.8 | 3490.6 | 4282.8 | 4418.9 | 3605.1 |
| 60° | 4469.4 | 4367.7 | 4174.6 | 4169.9 | 4286.5 | 3932.2 | 3695.5 | 3768.7 | 4743.0 | 4559.9 | 3550.9 |
| 62.5° | 5251.0 | 5149.4 | 4787.3 | 4551.7 | 4534.4 | 4235.9 | 4020.6 | 4040.0 | 5008.7 | 4368.7 | 3220.2 |
| 65° | 6096.9 | 6006.0 | 5601.7 | 5268.9 | 5108.4 | 4738.9 | 4398.5 | 4161.3 | 4921.9 | 3842.8 | 2641.6 |
| 67.5° | 7123.9 | 7026.3 | 6678.7 | 6371.5 | 6217.1 | 5550.5 | 4663.7 | 4045.2 | 4370.3 | 2977.0 | 1898.8 |
| 70° | 7842.1 | 7742.3 | 7605.4 | 7854.3 | 8232.0 | 6721.6 | 4698.0 | 3573.5 | 3264.3 | 1978.6 | 1143.0 |
| 72.5° | 6905.1 | 6858.6 | 7108.5 | 8156.9 | 9730.3 | 7432.0 | 4246.6 | 2601.8 | 1895.9 | 1050.4 | 661.4 |
| 73° | 6326.5 | 6316.3 | 6742.6 | 7944.8 | 9741.0 | 7322.8 | 4048.8 | 2418.2 | 1625.9 | 929.2 | 604.6 |
| 75° | 2856.8 | 2939.2 | 3873.5 | 6068.3 | 8463.0 | 6034.1 | 2849.7 | 1387.3 | 918.5 | 642.0 | 456.5 |
| 77.5° | 686.5 | 715.1 | 1212.0 | 2881.9 | 5344.6 | 3595.9 | 1291.1 | 685.9 | 587.3 | 453.4 | 333.4 |
| 80° | 292.4 | 302.1 | 466.7 | 1064.8 | 2516.4 | 1448.1 | 594.9 | 459.6 | 406.4 | 316.5 | 233.6 |
| 82.5° | 162.6 | 172.7 | 264.8 | 483.0 | 1015.7 | 493.8 | 362.9 | 319.9 | 267.3 | 190.7 | 151.9 |
| 85° | 91.9 | 97.6 | 154.9 | 269.9 | 430.4 | 198.3 | 217.2 | 212.5 | 150.7 | 98.2 | 74.6 |
| 87.5° | 43.5 | 47.0 | 74.6 | 125.3 | 168.7 | 77.8 | 110.4 | 121.6 | 94.5 | 59.7 | 38.8 |
| 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° | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 |
| 2.5° | 1605.5 | 1614.8 | 1625.5 | 1631.1 | 1636.3 | 1642.3 | 1648.5 | 1648.5 | 1649.5 | 1649.9 |
| 5° | 1594.2 | 1613.1 | 1630.1 | 1637.3 | 1638.8 | 1638.8 | 1637.3 | 1629.0 | 1621.9 | 1624.9 |
| 7.5° | 1570.7 | 1598.4 | 1612.6 | 1610.1 | 1590.7 | 1568.3 | 1549.2 | 1526.3 | 1514.5 | 1512.4 |
| 10° | 1537.0 | 1568.7 | 1571.2 | 1545.8 | 1497.7 | 1449.7 | 1409.7 | 1371.0 | 1352.5 | 1347.8 |
| 12.5° | 1499.7 | 1528.8 | 1512.4 | 1459.8 | 1382.6 | 1312.7 | 1261.9 | 1222.7 | 1205.3 | 1200.7 |
| 15° | 1469.5 | 1489.5 | 1448.1 | 1365.2 | 1268.1 | 1194.0 | 1152.2 | 1123.1 | 1110.8 | 1107.2 |
| 17.5° | 1453.6 | 1457.8 | 1382.1 | 1270.3 | 1167.0 | 1105.2 | 1079.0 | 1065.2 | 1060.5 | 1058.1 |
| 20° | 1461.4 | 1432.7 | 1319.3 | 1181.8 | 1084.2 | 1040.6 | 1034.6 | 1031.0 | 1029.9 | 1028.4 |
| 22.5° | 1499.7 | 1425.2 | 1261.5 | 1098.0 | 1011.5 | 992.6 | 997.7 | 997.3 | 996.2 | 995.2 |
| 25° | 1568.3 | 1431.7 | 1205.3 | 1018.1 | 950.8 | 946.6 | 955.8 | 955.8 | 951.8 | 951.8 |
| 27.5° | 1658.7 | 1445.6 | 1142.5 | 942.5 | 895.5 | 896.0 | 903.2 | 901.2 | 896.6 | 893.5 |
| 30° | 1769.1 | 1454.3 | 1068.9 | 874.6 | 843.9 | 841.8 | 843.9 | 835.2 | 821.4 | 820.4 |
| 32.5° | 1882.0 | 1443.4 | 983.5 | 814.3 | 789.3 | 784.6 | 783.1 | 770.8 | 754.9 | 750.4 |
| 35° | 1984.3 | 1404.1 | 896.6 | 766.3 | 737.1 | 726.9 | 734.0 | 730.0 | 715.6 | 712.0 |
| 37.5° | 2058.8 | 1331.0 | 818.4 | 723.8 | 699.8 | 697.3 | 701.8 | 703.4 | 686.5 | 682.9 |
| 40° | 2109.0 | 1231.8 | 751.4 | 688.0 | 692.7 | 682.9 | 667.6 | 656.8 | 651.7 | 650.2 |
| 42.5° | 2149.4 | 1128.6 | 695.2 | 671.2 | 694.1 | 666.1 | 632.8 | 615.3 | 624.6 | 628.8 |
| 45° | 2195.8 | 1027.9 | 648.1 | 650.2 | 686.5 | 646.6 | 608.8 | 592.0 | 595.4 | 596.6 |
| 47.5° | 2259.7 | 905.2 | 597.6 | 616.4 | 661.0 | 633.3 | 594.0 | 570.0 | 553.0 | 545.5 |
| 50° | 2348.2 | 760.1 | 544.9 | 578.6 | 635.9 | 623.7 | 571.0 | 545.5 | 514.2 | 507.1 |
| 52.5° | 2409.6 | 624.6 | 501.4 | 546.9 | 613.4 | 604.2 | 552.5 | 519.3 | 486.6 | 480.5 |
| 55° | 2376.3 | 518.9 | 463.6 | 511.7 | 583.7 | 580.1 | 537.2 | 492.7 | 467.2 | 462.1 |
| 57.5° | 2210.2 | 451.8 | 434.5 | 478.4 | 547.4 | 559.7 | 516.7 | 470.3 | 451.8 | 448.3 |
| 60° | 1893.3 | 409.9 | 416.1 | 455.9 | 517.9 | 539.3 | 496.4 | 458.0 | 445.6 | 443.1 |
| 62.5° | 1469.1 | 381.8 | 402.4 | 439.6 | 494.7 | 525.0 | 485.1 | 456.5 | 451.8 | 448.9 |
| 65° | 1052.5 | 359.3 | 387.4 | 423.2 | 473.9 | 511.7 | 481.0 | 454.5 | 455.4 | 452.8 |
| 67.5° | 715.1 | 339.4 | 369.6 | 404.9 | 453.4 | 499.8 | 475.4 | 447.3 | 460.0 | 457.0 |
| 70° | 500.4 | 319.9 | 348.6 | 381.3 | 427.9 | 483.6 | 465.1 | 436.5 | 435.5 | 423.2 |
| 72.5° | 390.6 | 294.5 | 319.9 | 348.6 | 395.2 | 460.6 | 444.8 | 412.5 | 395.7 | 382.9 |
| 73° | 372.6 | 288.3 | 312.8 | 341.4 | 388.0 | 454.9 | 439.1 | 405.9 | 386.9 | 375.2 |
| 75° | 308.2 | 261.6 | 284.3 | 309.7 | 357.3 | 428.3 | 411.5 | 375.8 | 351.6 | 344.5 |
| 77.5° | 242.4 | 223.9 | 245.3 | 268.4 | 314.9 | 389.4 | 370.6 | 336.3 | 323.0 | 316.9 |
| 80° | 179.4 | 185.5 | 204.5 | 224.8 | 272.9 | 348.2 | 331.3 | 297.0 | 356.3 | 341.4 |
| 82.5° | 126.2 | 140.6 | 157.9 | 176.3 | 229.0 | 307.7 | 287.3 | 252.1 | 260.7 | 216.8 |
| 85° | 74.6 | 91.9 | 108.3 | 124.2 | 165.1 | 255.1 | 237.2 | 201.0 | 164.6 | 156.9 |
| 87.5° | 43.5 | 51.2 | 55.8 | 72.0 | 113.5 | 192.1 | 167.2 | 148.8 | 85.3 | 57.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)