

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: P191689

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5WQ-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6564 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 59
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

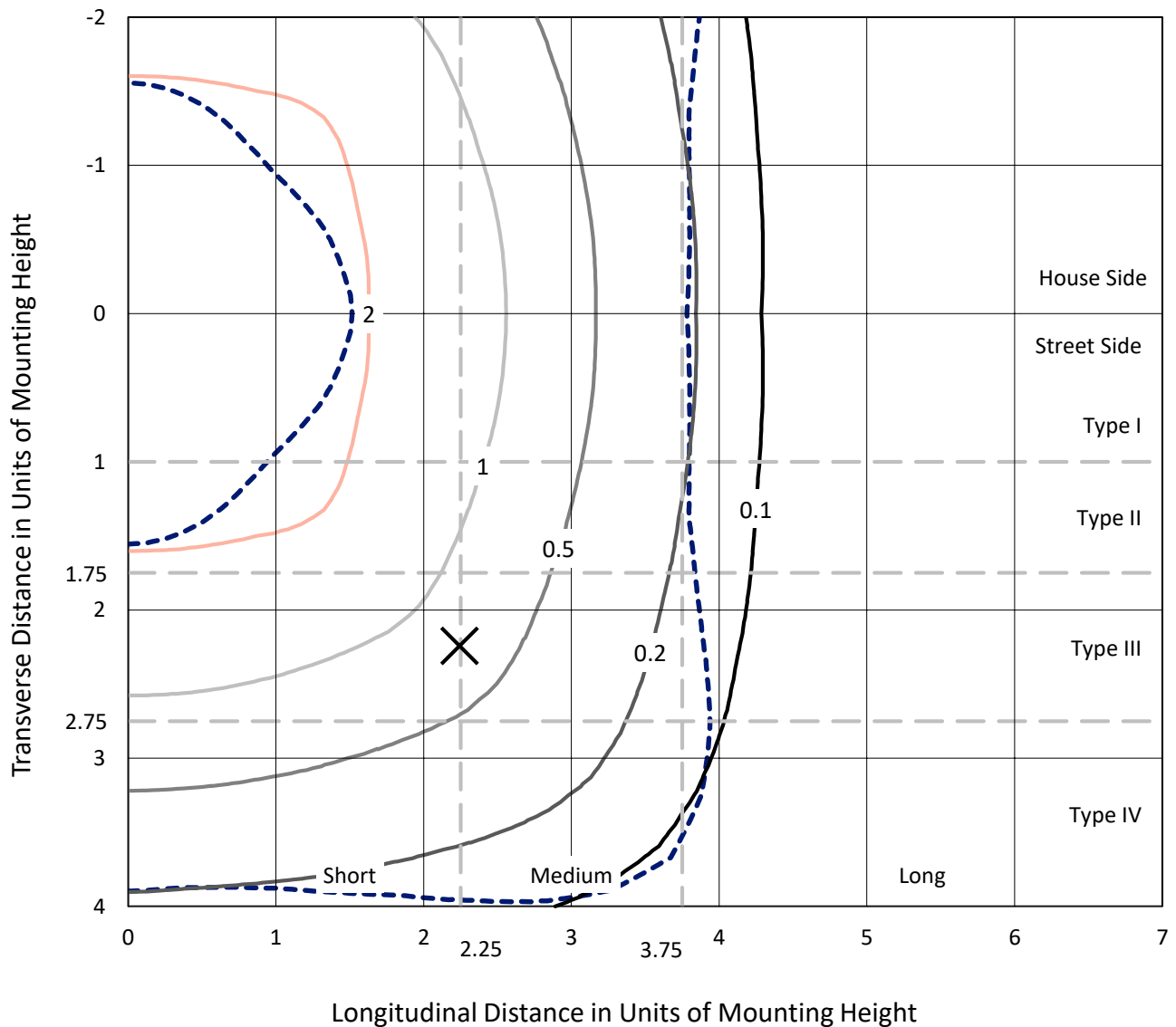


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

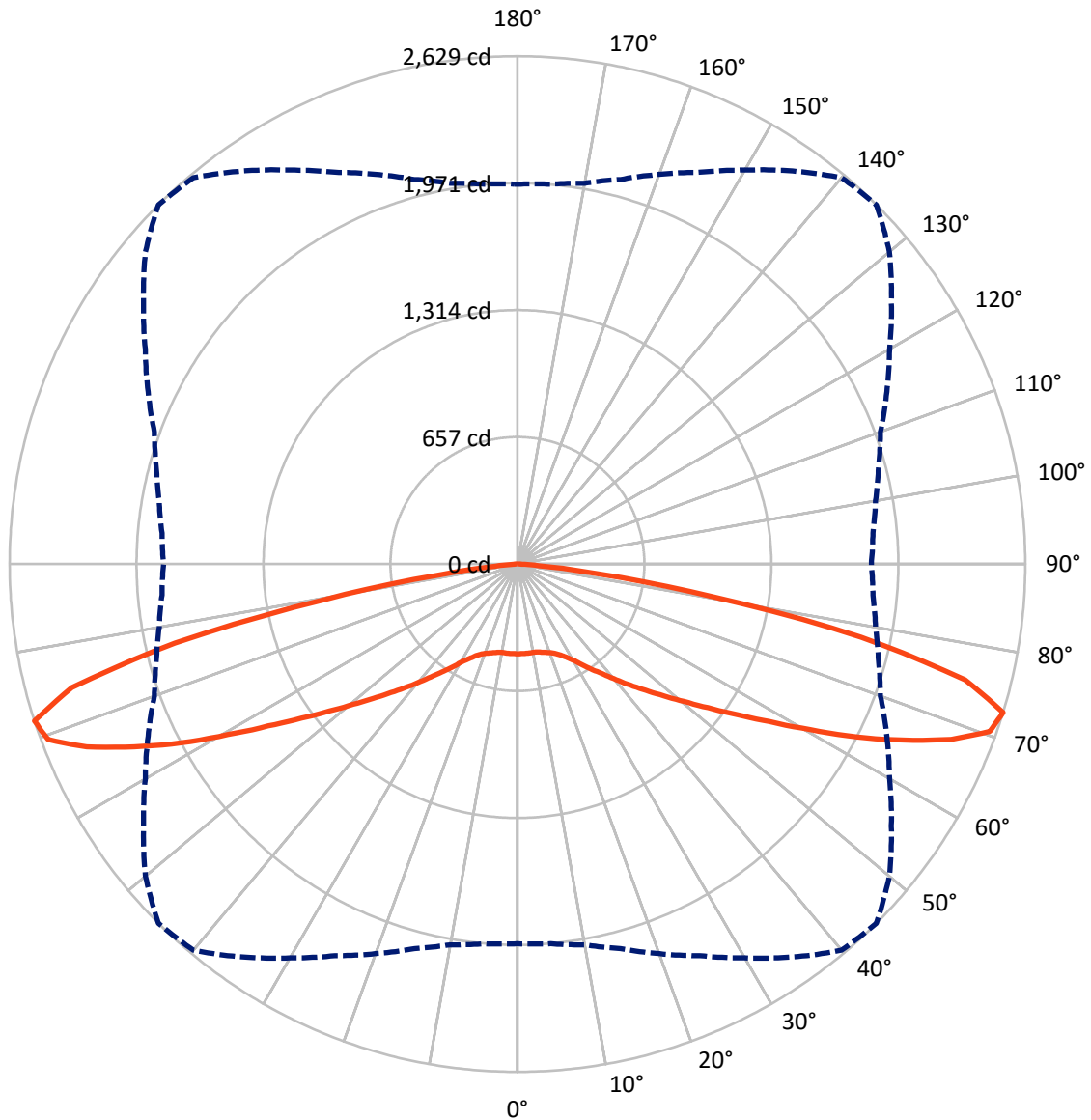


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3282.0 | 0.0 | 3282.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3282.0 | 0.0 | 3282.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6564.0 | 0.0 | 6564.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.4 | 0.7 |
| 10°-20° | 134.8 | 2.1 |
| 20°-30° | 246.3 | 3.8 |
| 30°-40° | 424.7 | 6.5 |
| 40°-50° | 726.1 | 11.1 |
| 50°-60° | 1176.9 | 17.9 |
| 60°-70° | 1952.4 | 29.7 |
| 70°-80° | 1719.6 | 26.2 |
| 80°-90° | 138.6 | 2.1 |
| 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° | 6564.0 | 100.0 |
| 0°-180° | 6564.0 | 100.0 |



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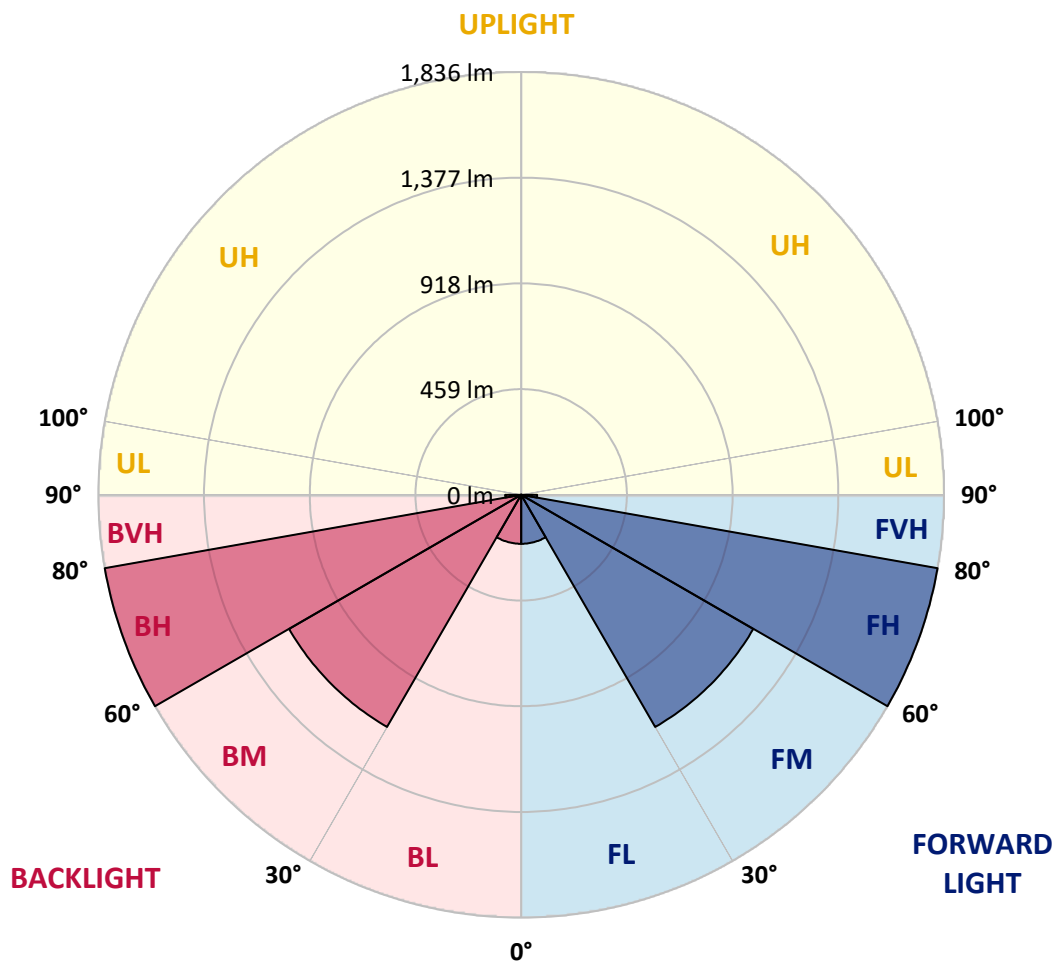
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 212.8 | 3.2 | | | |
| FM (30°-60°) | 1163.9 | 17.7 | | | |
| FH (60°-80°) | 1836.0 | 28.0 | | | G2/5000 |
| FVH (80°-90°) | 69.3 | 1.1 | | | G1/100 |
| BL (0°-30°) | 212.8 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1163.9 | 17.7 | B2/2500 | | |
| BH (60°-80°) | 1836.0 | 28.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 69.3 | 1.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 |
| 2.5° | 464.8 | 465.1 | 465.4 | 465.1 | 465.1 | 464.8 | 464.5 | 464.8 | 464.5 | 463.9 | 464.2 |
| 5° | 466.3 | 466.9 | 466.9 | 466.3 | 466.6 | 466.3 | 465.7 | 466.0 | 465.4 | 464.5 | 464.5 |
| 7.5° | 468.1 | 468.4 | 468.4 | 467.8 | 468.1 | 467.5 | 466.9 | 466.6 | 466.0 | 464.8 | 463.9 |
| 10° | 470.9 | 471.2 | 470.9 | 470.3 | 470.3 | 469.3 | 467.8 | 467.2 | 466.0 | 464.2 | 463.3 |
| 12.5° | 473.9 | 474.2 | 473.9 | 473.3 | 473.0 | 471.5 | 470.3 | 469.3 | 468.4 | 466.9 | 465.4 |
| 15° | 478.1 | 478.7 | 478.1 | 476.9 | 476.0 | 474.8 | 474.2 | 474.5 | 474.8 | 473.6 | 472.1 |
| 17.5° | 485.9 | 486.2 | 485.3 | 482.6 | 481.4 | 480.2 | 480.2 | 480.8 | 481.7 | 481.1 | 479.6 |
| 20° | 500.4 | 499.5 | 497.3 | 494.0 | 492.5 | 490.4 | 490.1 | 490.4 | 490.4 | 490.1 | 488.9 |
| 22.5° | 518.4 | 517.8 | 515.1 | 510.9 | 508.8 | 507.6 | 505.8 | 504.3 | 504.0 | 503.1 | 501.9 |
| 25° | 540.1 | 539.8 | 536.5 | 532.9 | 531.4 | 529.9 | 528.4 | 526.2 | 524.4 | 522.3 | 521.1 |
| 27.5° | 567.8 | 566.6 | 561.8 | 560.0 | 557.9 | 557.0 | 554.8 | 552.4 | 550.9 | 548.2 | 546.7 |
| 30° | 598.2 | 598.2 | 594.3 | 593.7 | 593.7 | 591.6 | 589.2 | 585.0 | 582.2 | 579.5 | 578.6 |
| 32.5° | 628.6 | 628.9 | 625.0 | 626.2 | 627.1 | 628.6 | 629.2 | 627.7 | 625.9 | 625.6 | 623.8 |
| 35° | 672.6 | 671.4 | 667.4 | 668.3 | 668.0 | 667.7 | 667.7 | 671.1 | 671.7 | 672.3 | 668.6 |
| 37.5° | 727.1 | 727.1 | 723.1 | 723.1 | 721.3 | 719.5 | 717.1 | 719.2 | 722.5 | 723.4 | 721.0 |
| 40° | 789.4 | 791.5 | 786.7 | 786.4 | 787.0 | 781.2 | 778.5 | 781.8 | 784.0 | 787.6 | 784.9 |
| 42.5° | 862.8 | 861.3 | 856.5 | 855.9 | 852.6 | 850.8 | 848.4 | 851.1 | 854.4 | 856.8 | 857.7 |
| 45° | 933.3 | 932.1 | 926.7 | 926.7 | 923.3 | 921.8 | 923.0 | 927.6 | 929.1 | 932.4 | 935.7 |
| 47.5° | 1002.8 | 1001.3 | 997.7 | 999.2 | 999.5 | 1002.2 | 1006.1 | 1010.3 | 1014.6 | 1019.1 | 1020.6 |
| 50° | 1073.9 | 1074.2 | 1070.3 | 1073.9 | 1078.4 | 1085.9 | 1096.5 | 1103.4 | 1112.1 | 1117.8 | 1119.6 |
| 52.5° | 1138.6 | 1139.8 | 1144.0 | 1152.4 | 1161.5 | 1176.2 | 1194.3 | 1211.2 | 1225.6 | 1235.2 | 1234.6 |
| 55° | 1216.3 | 1218.1 | 1228.3 | 1242.8 | 1257.5 | 1279.8 | 1306.6 | 1336.4 | 1360.5 | 1374.3 | 1365.6 |
| 57.5° | 1315.6 | 1319.5 | 1331.0 | 1350.5 | 1372.5 | 1401.4 | 1438.2 | 1483.0 | 1520.3 | 1539.0 | 1524.9 |
| 60° | 1452.0 | 1454.4 | 1468.3 | 1489.9 | 1516.4 | 1552.3 | 1601.3 | 1661.5 | 1714.2 | 1738.9 | 1722.7 |
| 62.5° | 1631.7 | 1636.2 | 1647.4 | 1669.4 | 1696.5 | 1737.1 | 1797.0 | 1872.3 | 1937.9 | 1972.2 | 1935.5 |
| 65° | 1846.4 | 1860.8 | 1870.2 | 1892.4 | 1917.7 | 1960.8 | 2023.4 | 2104.1 | 2174.5 | 2197.1 | 2154.7 |
| 67.5° | 2058.9 | 2071.6 | 2087.8 | 2113.4 | 2139.0 | 2187.5 | 2245.6 | 2323.9 | 2401.2 | 2421.7 | 2355.8 |
| 70° | 2152.0 | 2159.2 | 2184.5 | 2219.4 | 2268.5 | 2325.7 | 2392.8 | 2480.7 | 2576.5 | 2593.3 | 2509.6 |
| 72.5° | 1965.6 | 1972.8 | 2001.1 | 2060.4 | 2145.9 | 2236.9 | 2354.0 | 2483.1 | 2609.6 | 2628.5 | 2513.2 |
| 75° | 1486.6 | 1474.9 | 1516.7 | 1595.3 | 1710.6 | 1837.4 | 2001.1 | 2186.3 | 2369.0 | 2392.8 | 2255.2 |
| 77.5° | 768.3 | 766.8 | 798.4 | 895.9 | 1033.5 | 1177.7 | 1358.1 | 1567.3 | 1746.1 | 1818.4 | 1706.4 |
| 80° | 216.5 | 218.9 | 233.9 | 282.4 | 362.8 | 466.9 | 607.8 | 803.8 | 950.1 | 1024.8 | 962.2 |
| 82.5° | 84.9 | 91.5 | 97.2 | 106.3 | 116.8 | 132.2 | 176.4 | 262.5 | 352.2 | 420.9 | 344.7 |
| 85° | 30.4 | 32.5 | 46.1 | 54.5 | 55.4 | 58.4 | 66.5 | 77.7 | 93.6 | 111.7 | 91.8 |
| 87.5° | 11.4 | 12.6 | 14.8 | 24.4 | 24.1 | 22.0 | 26.8 | 28.0 | 21.1 | 19.3 | 23.8 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 | 464.8 |
| 2.5° | 463.6 | 463.9 | 463.9 | 464.2 | 464.5 | 464.5 | 465.1 | 465.1 |
| 5° | 463.9 | 463.9 | 463.3 | 463.6 | 463.3 | 463.3 | 463.6 | 463.6 |
| 7.5° | 463.3 | 463.0 | 462.4 | 462.1 | 461.5 | 461.5 | 461.5 | 461.5 |
| 10° | 462.4 | 462.1 | 461.5 | 461.2 | 460.9 | 460.9 | 460.9 | 460.9 |
| 12.5° | 464.8 | 463.9 | 463.3 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 |
| 15° | 471.2 | 469.0 | 467.5 | 467.5 | 467.8 | 468.4 | 468.4 | 469.0 |
| 17.5° | 479.0 | 476.6 | 475.1 | 473.9 | 474.5 | 475.4 | 476.0 | 476.6 |
| 20° | 488.3 | 487.1 | 485.0 | 483.8 | 483.8 | 485.0 | 485.6 | 485.9 |
| 22.5° | 501.3 | 500.4 | 499.5 | 497.9 | 497.9 | 498.6 | 499.8 | 499.8 |
| 25° | 520.5 | 519.9 | 519.3 | 518.1 | 517.8 | 517.8 | 518.4 | 519.0 |
| 27.5° | 544.6 | 544.9 | 544.3 | 544.0 | 543.1 | 542.8 | 543.7 | 543.4 |
| 30° | 576.8 | 578.3 | 579.8 | 578.6 | 577.1 | 576.2 | 575.3 | 574.1 |
| 32.5° | 620.5 | 618.7 | 617.5 | 615.4 | 612.7 | 610.2 | 608.4 | 606.3 |
| 35° | 661.7 | 658.7 | 657.5 | 659.3 | 659.0 | 657.5 | 655.4 | 653.6 |
| 37.5° | 712.3 | 711.7 | 712.3 | 715.6 | 715.0 | 716.5 | 712.3 | 712.0 |
| 40° | 776.1 | 776.7 | 780.9 | 784.9 | 787.0 | 789.1 | 786.7 | 784.3 |
| 42.5° | 850.2 | 849.9 | 851.4 | 856.8 | 860.4 | 862.8 | 857.7 | 857.1 |
| 45° | 928.5 | 926.4 | 927.6 | 932.1 | 935.7 | 938.4 | 932.7 | 932.7 |
| 47.5° | 1014.6 | 1011.0 | 1007.0 | 1012.2 | 1014.3 | 1016.1 | 1011.6 | 1010.0 |
| 50° | 1110.6 | 1103.1 | 1094.6 | 1096.8 | 1096.8 | 1096.2 | 1090.4 | 1090.1 |
| 52.5° | 1220.8 | 1206.9 | 1191.6 | 1185.9 | 1182.6 | 1178.9 | 1169.0 | 1164.2 |
| 55° | 1347.5 | 1326.8 | 1302.7 | 1287.9 | 1280.1 | 1270.2 | 1253.6 | 1249.1 |
| 57.5° | 1495.7 | 1463.1 | 1421.6 | 1403.5 | 1386.1 | 1369.8 | 1351.4 | 1346.3 |
| 60° | 1671.2 | 1623.3 | 1568.2 | 1534.8 | 1515.8 | 1500.2 | 1481.2 | 1480.3 |
| 62.5° | 1866.9 | 1791.3 | 1729.0 | 1698.9 | 1685.0 | 1671.2 | 1653.1 | 1655.5 |
| 65° | 2065.9 | 1987.0 | 1928.6 | 1904.2 | 1891.2 | 1879.8 | 1861.7 | 1864.5 |
| 67.5° | 2262.1 | 2189.6 | 2125.5 | 2100.5 | 2086.0 | 2071.6 | 2055.3 | 2058.0 |
| 70° | 2403.0 | 2313.0 | 2240.8 | 2185.4 | 2150.8 | 2111.6 | 2086.3 | 2080.0 |
| 72.5° | 2362.7 | 2223.9 | 2109.2 | 1999.3 | 1934.9 | 1882.5 | 1847.0 | 1831.6 |
| 75° | 2044.8 | 1855.1 | 1707.6 | 1572.7 | 1496.9 | 1435.1 | 1390.3 | 1362.3 |
| 77.5° | 1518.5 | 1305.4 | 1131.1 | 975.7 | 852.9 | 770.4 | 712.3 | 674.7 |
| 80° | 831.2 | 632.2 | 462.1 | 324.8 | 238.7 | 198.4 | 175.2 | 164.1 |
| 82.5° | 258.9 | 167.1 | 123.1 | 106.3 | 98.7 | 94.5 | 87.6 | 76.5 |
| 85° | 82.5 | 72.3 | 67.1 | 64.1 | 61.1 | 53.3 | 36.7 | 33.4 |
| 87.5° | 31.9 | 32.8 | 32.5 | 30.7 | 31.3 | 22.6 | 18.1 | 16.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)