

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: P268227

Luminaire Tested: **GAN-AF-01-LED-U-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268227
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-01-LED-U-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4376.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

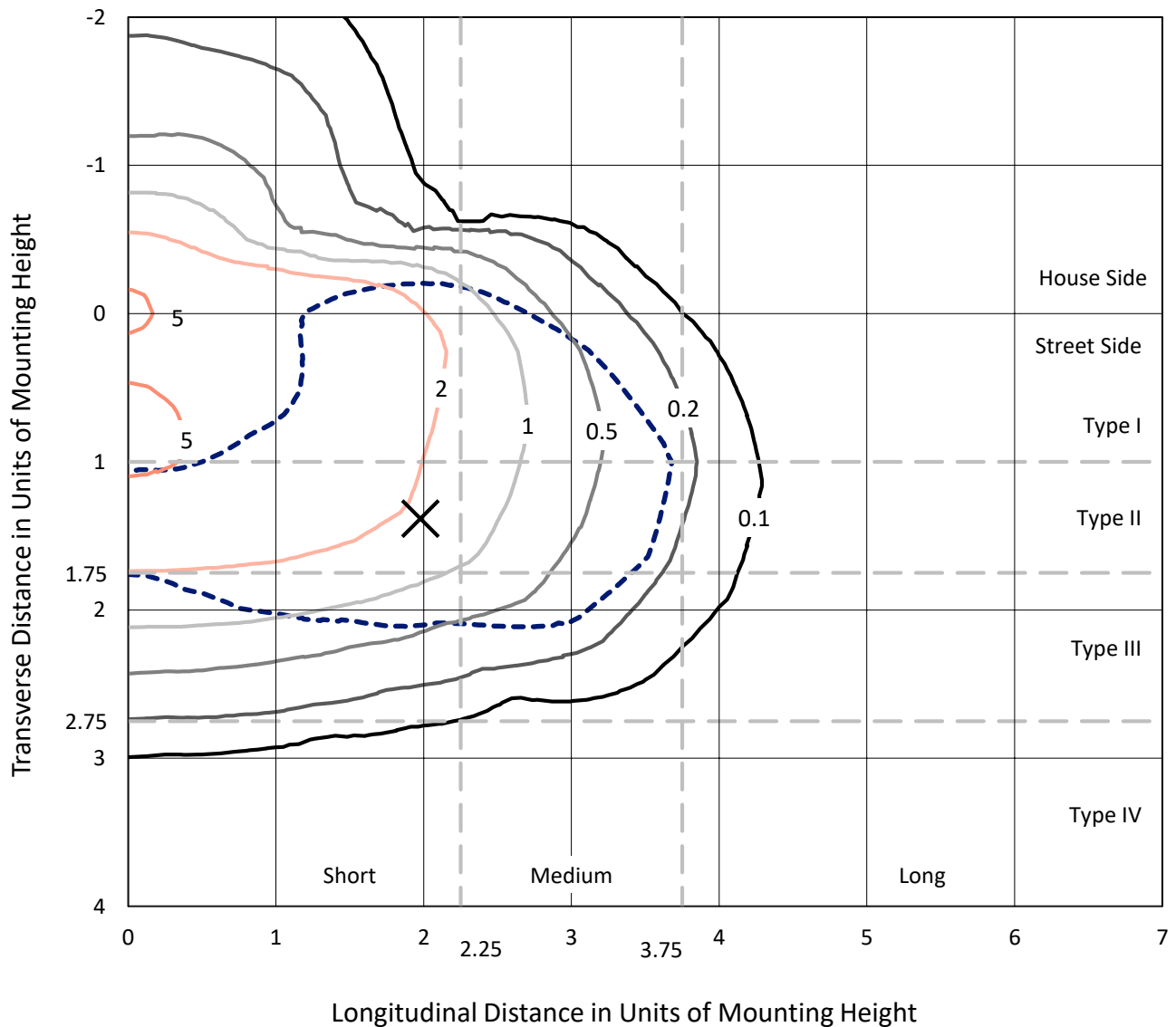
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

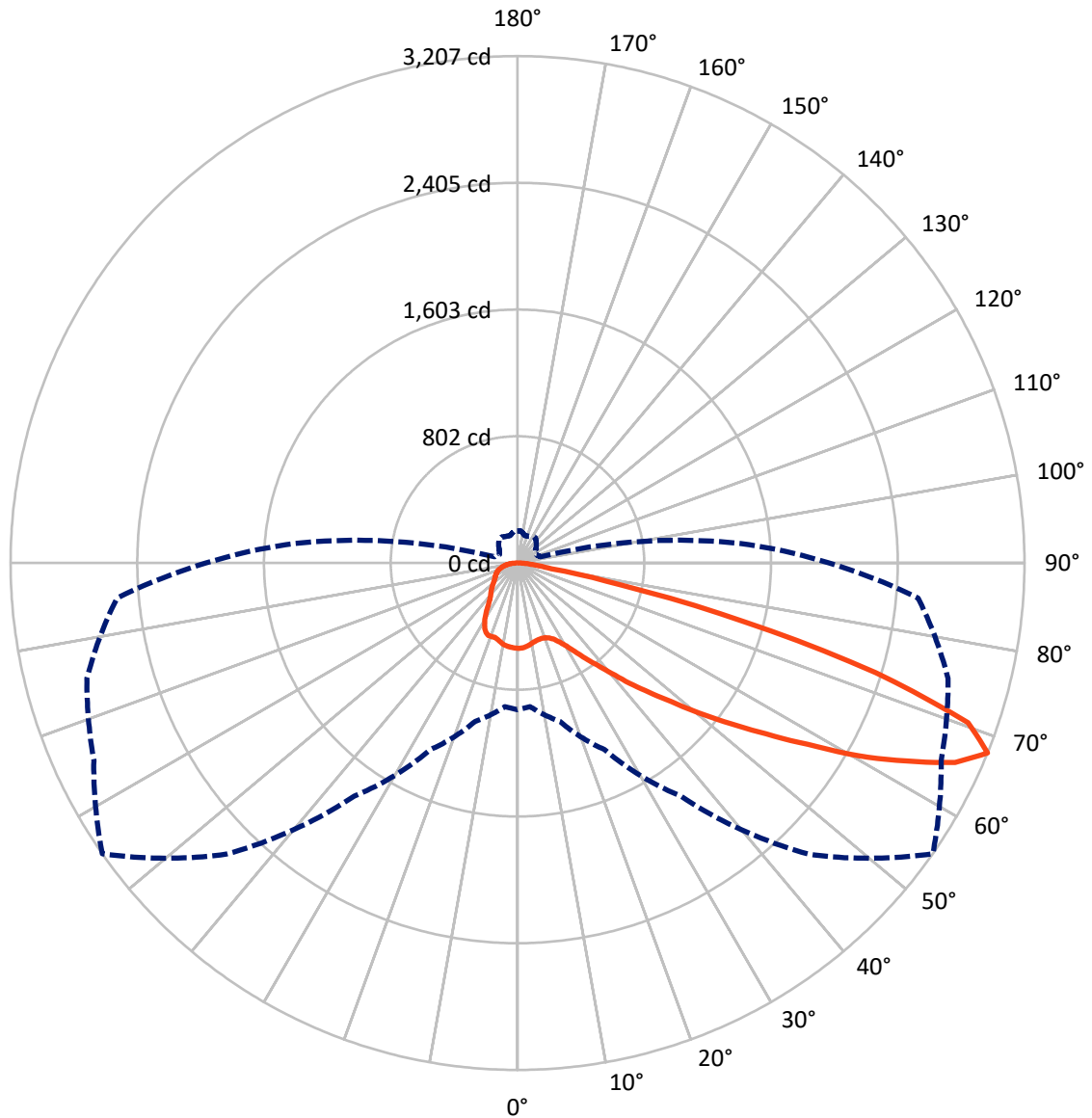
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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 | 945.4 | 0.0 | 945.4 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 3431.0 | 0.0 | 3431.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 4376.4 | 0.0 | 4376.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.4 | 1.2 |
| 10°-20° | 142.7 | 3.3 |
| 20°-30° | 239.0 | 5.5 |
| 30°-40° | 393.0 | 9.0 |
| 40°-50° | 661.5 | 15.1 |
| 50°-60° | 1041.1 | 23.8 |
| 60°-70° | 1242.5 | 28.4 |
| 70°-80° | 533.6 | 12.2 |
| 80°-90° | 72.8 | 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° | 4376.4 | 100.0 |
| 0°-180° | 4376.4 | 100.0 |



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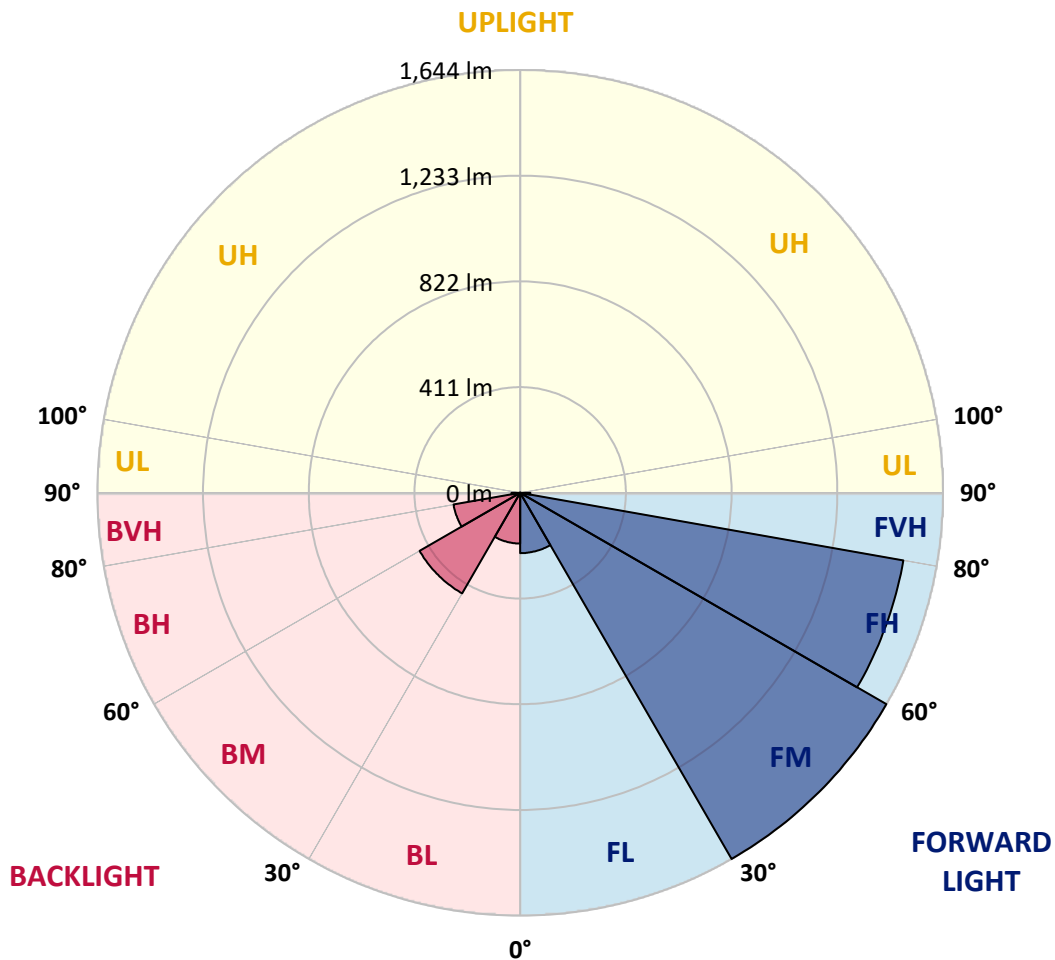
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 234.6 | 5.4 | | | |
| FM | (30°-60°) | 1644.1 | 37.6 | | | |
| FH | (60°-80°) | 1512.9 | 34.6 | | | G1/1800 |
| FVH | (80°-90°) | 39.4 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 197.4 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 451.5 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 263.1 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 33.4 | 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 |
| 2.5° | 535.0 | 535.2 | 535.7 | 537.4 | 538.9 | 538.4 | 538.7 | 537.7 | 537.5 | 536.3 | 537.5 |
| 5° | 528.3 | 528.9 | 529.1 | 531.8 | 533.6 | 534.0 | 533.4 | 532.2 | 531.0 | 529.7 | 530.4 |
| 7.5° | 512.8 | 514.5 | 514.6 | 518.5 | 521.2 | 524.9 | 525.1 | 525.2 | 524.7 | 523.8 | 525.1 |
| 10° | 503.1 | 503.5 | 503.3 | 506.0 | 508.3 | 512.2 | 514.5 | 518.5 | 520.2 | 520.7 | 521.5 |
| 12.5° | 502.4 | 502.1 | 501.4 | 501.4 | 500.7 | 502.4 | 506.6 | 512.5 | 516.4 | 517.7 | 518.7 |
| 15° | 509.2 | 509.0 | 507.0 | 503.7 | 499.6 | 498.4 | 502.1 | 508.4 | 513.7 | 516.4 | 517.5 |
| 17.5° | 524.4 | 523.2 | 519.8 | 512.7 | 503.9 | 500.5 | 501.0 | 506.3 | 512.5 | 515.9 | 517.1 |
| 20° | 552.4 | 552.4 | 545.1 | 531.6 | 516.2 | 508.3 | 504.4 | 507.5 | 513.4 | 518.3 | 519.8 |
| 22.5° | 600.5 | 601.0 | 588.8 | 566.7 | 540.7 | 523.6 | 514.1 | 513.4 | 520.4 | 525.9 | 527.7 |
| 25° | 668.8 | 667.1 | 650.3 | 618.6 | 579.0 | 550.7 | 534.1 | 530.4 | 536.3 | 542.3 | 544.6 |
| 27.5° | 748.3 | 742.2 | 722.1 | 683.8 | 632.6 | 591.3 | 565.8 | 559.7 | 565.5 | 572.4 | 574.6 |
| 30° | 826.9 | 820.6 | 796.6 | 754.8 | 698.1 | 645.5 | 609.2 | 599.3 | 607.3 | 617.2 | 618.6 |
| 32.5° | 905.6 | 905.6 | 878.9 | 830.2 | 768.2 | 710.5 | 666.9 | 655.0 | 668.3 | 680.5 | 683.3 |
| 35° | 999.6 | 1000.1 | 974.2 | 915.6 | 848.9 | 787.9 | 739.8 | 731.2 | 751.3 | 759.6 | 766.3 |
| 37.5° | 1115.2 | 1117.6 | 1084.4 | 1013.4 | 940.4 | 876.1 | 819.2 | 807.2 | 827.3 | 850.3 | 871.5 |
| 40° | 1240.2 | 1243.2 | 1206.6 | 1119.1 | 1046.2 | 979.0 | 917.2 | 895.8 | 929.2 | 973.3 | 1000.5 |
| 42.5° | 1359.5 | 1374.6 | 1339.4 | 1249.3 | 1170.9 | 1101.3 | 1038.7 | 1007.7 | 1049.5 | 1115.9 | 1139.6 |
| 45° | 1531.7 | 1542.7 | 1481.1 | 1399.6 | 1325.8 | 1248.0 | 1165.1 | 1132.4 | 1191.0 | 1274.7 | 1279.5 |
| 47.5° | 1646.5 | 1638.1 | 1607.0 | 1556.3 | 1509.5 | 1436.7 | 1312.1 | 1276.1 | 1353.9 | 1452.4 | 1425.2 |
| 50° | 1707.6 | 1710.2 | 1705.8 | 1708.8 | 1710.6 | 1664.9 | 1492.2 | 1442.9 | 1535.7 | 1654.7 | 1591.9 |
| 52.5° | 1764.6 | 1747.7 | 1761.7 | 1830.9 | 1914.6 | 1897.8 | 1688.2 | 1636.7 | 1730.6 | 1879.3 | 1768.3 |
| 55° | 1763.4 | 1737.6 | 1783.0 | 1905.5 | 2087.0 | 2106.4 | 1908.2 | 1849.0 | 1936.7 | 2120.0 | 1955.2 |
| 57.5° | 1701.0 | 1702.3 | 1772.3 | 1932.4 | 2207.0 | 2302.5 | 2163.5 | 2074.7 | 2155.3 | 2363.9 | 2125.7 |
| 60° | 1615.2 | 1626.8 | 1727.6 | 1928.0 | 2303.3 | 2463.4 | 2476.7 | 2318.0 | 2369.4 | 2585.6 | 2266.9 |
| 62.5° | 1476.8 | 1489.0 | 1628.1 | 1881.9 | 2288.6 | 2618.4 | 2760.0 | 2594.0 | 2593.2 | 2720.1 | 2308.4 |
| 65° | 1258.3 | 1254.8 | 1400.8 | 1709.7 | 2166.3 | 2733.0 | 3041.4 | 2832.7 | 2761.8 | 2722.3 | 2225.0 |
| 67.5° | 927.9 | 911.9 | 1037.3 | 1302.2 | 1800.6 | 2604.6 | 3206.9 | 2957.0 | 2819.4 | 2543.1 | 1970.5 |
| 70° | 481.5 | 465.4 | 566.9 | 760.3 | 1184.1 | 2032.9 | 3023.7 | 2892.8 | 2692.4 | 2131.8 | 1543.7 |
| 72.5° | 205.9 | 203.1 | 244.3 | 333.6 | 572.8 | 1172.6 | 2370.8 | 2503.8 | 2310.3 | 1588.4 | 1061.3 |
| 75° | 138.5 | 137.6 | 153.0 | 181.7 | 257.6 | 475.8 | 1483.7 | 1777.2 | 1690.3 | 984.8 | 597.0 |
| 77.5° | 108.7 | 107.5 | 116.7 | 130.7 | 166.9 | 187.7 | 658.5 | 954.2 | 883.2 | 428.8 | 261.2 |
| 80° | 85.0 | 84.1 | 89.8 | 97.5 | 120.1 | 118.3 | 216.8 | 379.7 | 293.8 | 164.2 | 127.0 |
| 82.5° | 67.1 | 67.1 | 71.7 | 71.9 | 85.2 | 80.8 | 113.0 | 167.3 | 146.8 | 95.8 | 77.9 |
| 85° | 61.4 | 61.4 | 66.1 | 53.7 | 55.5 | 50.9 | 70.2 | 99.2 | 93.1 | 39.3 | 33.9 |
| 87.5° | 30.8 | 30.1 | 55.5 | 47.6 | 30.3 | 27.0 | 34.2 | 48.0 | 51.7 | 21.7 | 16.9 |
| 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° | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 |
| 2.5° | 537.1 | 536.8 | 537.4 | 537.5 | 539.3 | 541.6 | 542.7 | 544.2 | 544.9 | 544.6 |
| 5° | 530.8 | 531.2 | 533.0 | 534.1 | 537.1 | 540.9 | 543.0 | 544.7 | 546.2 | 545.6 |
| 7.5° | 525.5 | 526.5 | 529.1 | 530.2 | 531.8 | 533.0 | 532.6 | 533.4 | 534.6 | 533.1 |
| 10° | 522.5 | 523.8 | 525.7 | 524.3 | 520.2 | 514.5 | 509.2 | 506.5 | 507.4 | 506.3 |
| 12.5° | 519.6 | 521.2 | 519.8 | 512.8 | 501.7 | 494.2 | 490.1 | 490.7 | 492.5 | 492.9 |
| 15° | 518.0 | 518.5 | 512.2 | 499.1 | 487.7 | 486.6 | 488.7 | 488.3 | 488.5 | 488.5 |
| 17.5° | 518.0 | 516.2 | 504.4 | 491.3 | 486.4 | 484.5 | 478.0 | 469.8 | 466.1 | 464.9 |
| 20° | 520.7 | 516.2 | 501.9 | 493.2 | 482.6 | 466.3 | 449.0 | 433.7 | 427.1 | 425.1 |
| 22.5° | 528.9 | 521.2 | 509.0 | 494.0 | 464.0 | 436.8 | 409.3 | 391.0 | 378.7 | 376.7 |
| 25° | 545.6 | 537.1 | 523.2 | 482.7 | 434.4 | 395.6 | 364.3 | 344.0 | 331.7 | 329.9 |
| 27.5° | 574.7 | 569.3 | 530.8 | 458.0 | 395.1 | 353.5 | 324.5 | 308.8 | 299.8 | 299.1 |
| 30° | 618.8 | 616.0 | 526.9 | 421.6 | 346.7 | 312.6 | 298.6 | 289.7 | 282.8 | 282.6 |
| 32.5° | 688.9 | 666.7 | 514.5 | 376.8 | 302.5 | 283.7 | 277.9 | 272.5 | 267.2 | 267.2 |
| 35° | 779.2 | 707.8 | 490.8 | 329.0 | 275.6 | 267.6 | 260.4 | 251.7 | 244.8 | 244.3 |
| 37.5° | 885.3 | 733.0 | 448.3 | 290.6 | 262.9 | 256.8 | 246.2 | 233.4 | 221.2 | 218.9 |
| 40° | 992.4 | 740.7 | 388.5 | 266.9 | 254.8 | 246.0 | 233.2 | 217.8 | 206.2 | 205.4 |
| 42.5° | 1090.7 | 726.1 | 325.0 | 250.6 | 246.9 | 235.0 | 221.5 | 208.0 | 198.6 | 198.4 |
| 45° | 1173.1 | 688.2 | 271.8 | 235.3 | 238.4 | 225.1 | 213.1 | 202.1 | 194.9 | 193.4 |
| 47.5° | 1250.8 | 634.8 | 234.4 | 218.9 | 230.0 | 219.6 | 209.5 | 199.2 | 192.1 | 191.1 |
| 50° | 1340.8 | 577.2 | 208.1 | 203.1 | 222.6 | 217.7 | 212.4 | 201.7 | 190.0 | 188.7 |
| 52.5° | 1449.9 | 527.1 | 187.7 | 189.3 | 216.9 | 220.3 | 220.1 | 208.9 | 188.6 | 186.8 |
| 55° | 1571.7 | 471.8 | 172.2 | 177.8 | 214.5 | 224.9 | 221.9 | 215.7 | 189.8 | 187.2 |
| 57.5° | 1691.5 | 407.1 | 161.4 | 169.2 | 211.2 | 224.4 | 212.9 | 203.7 | 192.7 | 189.3 |
| 60° | 1781.2 | 320.2 | 153.3 | 161.4 | 203.7 | 217.5 | 202.9 | 190.9 | 192.1 | 189.5 |
| 62.5° | 1787.3 | 247.6 | 143.3 | 155.0 | 192.5 | 210.6 | 196.4 | 185.2 | 194.9 | 192.3 |
| 65° | 1682.2 | 187.0 | 133.8 | 147.1 | 180.5 | 206.2 | 190.0 | 181.9 | 200.6 | 197.8 |
| 67.5° | 1416.3 | 150.5 | 125.8 | 139.1 | 168.5 | 196.8 | 184.3 | 179.0 | 205.7 | 200.9 |
| 70° | 1022.5 | 128.3 | 117.9 | 129.4 | 157.7 | 186.2 | 179.2 | 173.7 | 192.0 | 184.3 |
| 72.5° | 629.5 | 111.2 | 109.1 | 116.5 | 149.5 | 175.2 | 171.7 | 163.9 | 173.0 | 166.7 |
| 75° | 314.3 | 96.4 | 99.2 | 103.8 | 137.8 | 162.8 | 159.0 | 151.2 | 152.4 | 151.2 |
| 77.5° | 150.5 | 82.5 | 87.6 | 91.1 | 122.8 | 148.6 | 144.5 | 136.5 | 135.0 | 135.3 |
| 80° | 95.3 | 68.9 | 73.8 | 76.3 | 109.8 | 132.1 | 128.1 | 120.1 | 137.0 | 127.0 |
| 82.5° | 59.6 | 56.1 | 57.3 | 62.0 | 95.5 | 115.1 | 109.8 | 102.5 | 123.4 | 97.6 |
| 85° | 33.0 | 39.0 | 40.9 | 44.8 | 73.5 | 96.2 | 90.9 | 81.7 | 73.3 | 72.0 |
| 87.5° | 19.7 | 23.3 | 23.9 | 26.9 | 49.4 | 69.6 | 61.5 | 58.3 | 48.4 | 48.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)