

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: P194349

Luminaire Tested: **GAN-AF-01-LED-U-RW-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6371 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

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

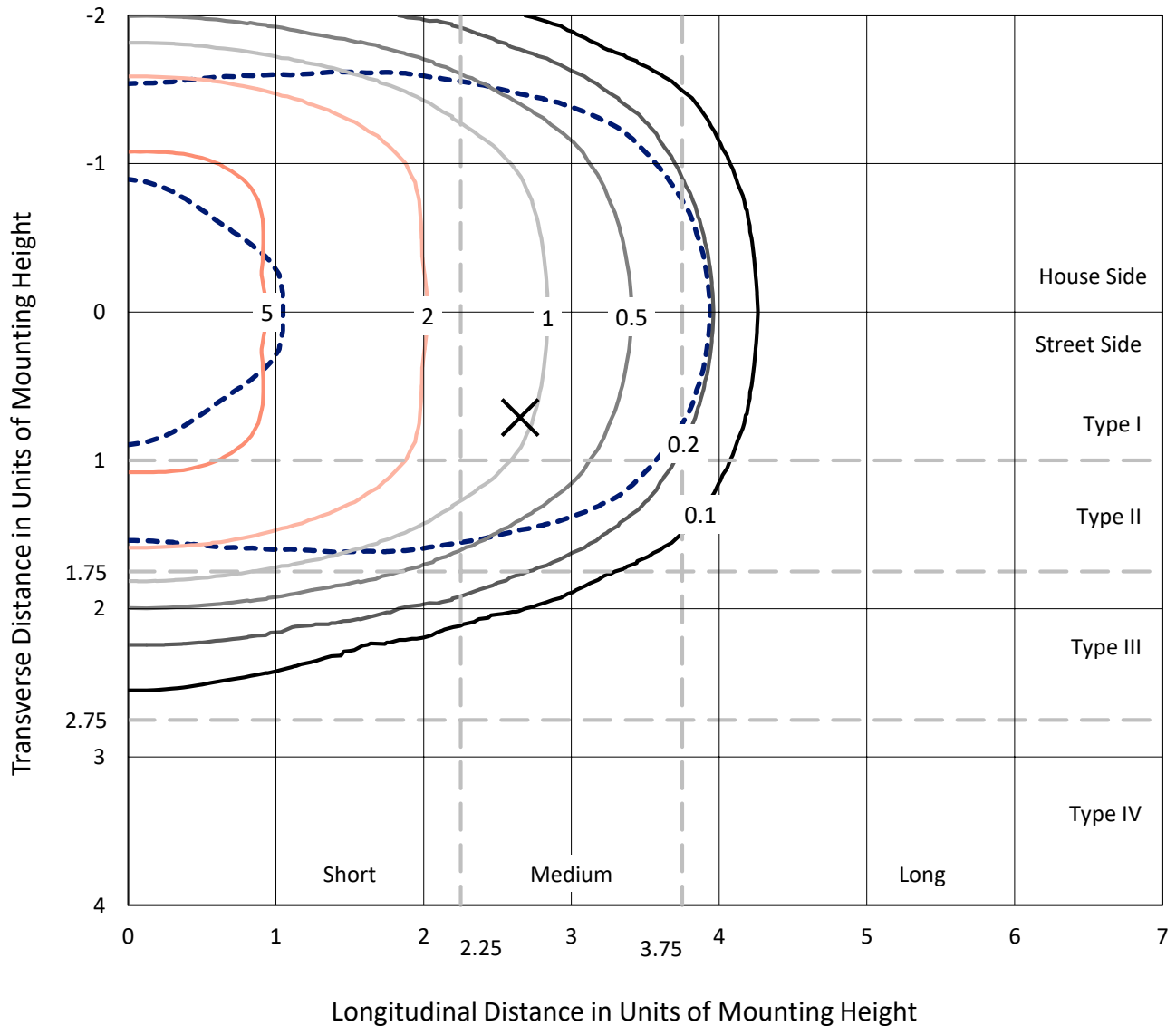


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

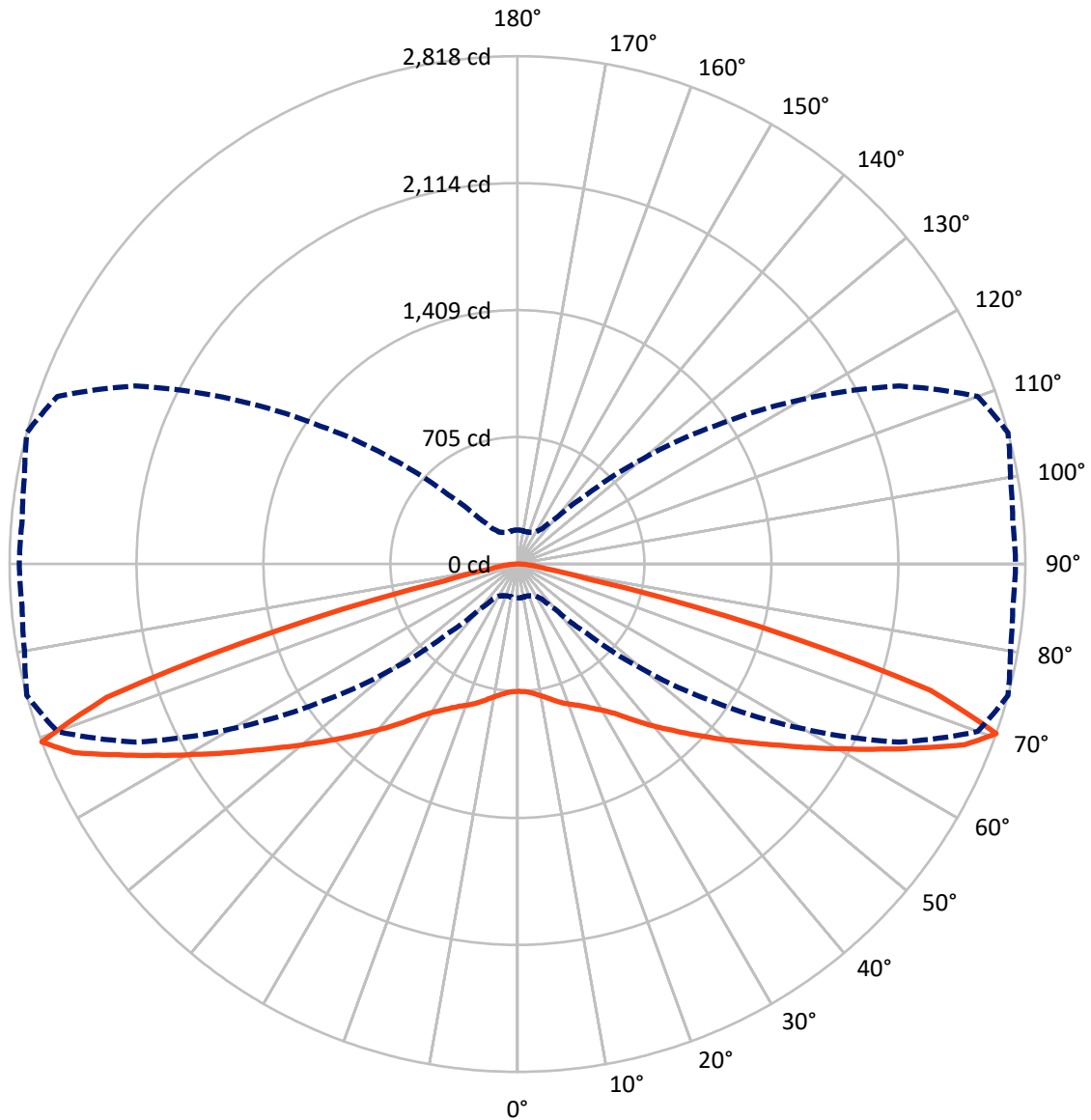


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3185.5 | 0.0 | 3185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3185.5 | 0.0 | 3185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6371.0 | 0.0 | 6371.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.8 | 1.1 |
| 10°-20° | 210.6 | 3.3 |
| 20°-30° | 396.4 | 6.2 |
| 30°-40° | 701.9 | 11.0 |
| 40°-50° | 1173.8 | 18.4 |
| 50°-60° | 1635.7 | 25.7 |
| 60°-70° | 1516.8 | 23.8 |
| 70°-80° | 604.5 | 9.5 |
| 80°-90° | 63.5 | 1.0 |
| 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° | 6371.0 | 100.0 |
| 0°-180° | 6371.0 | 100.0 |



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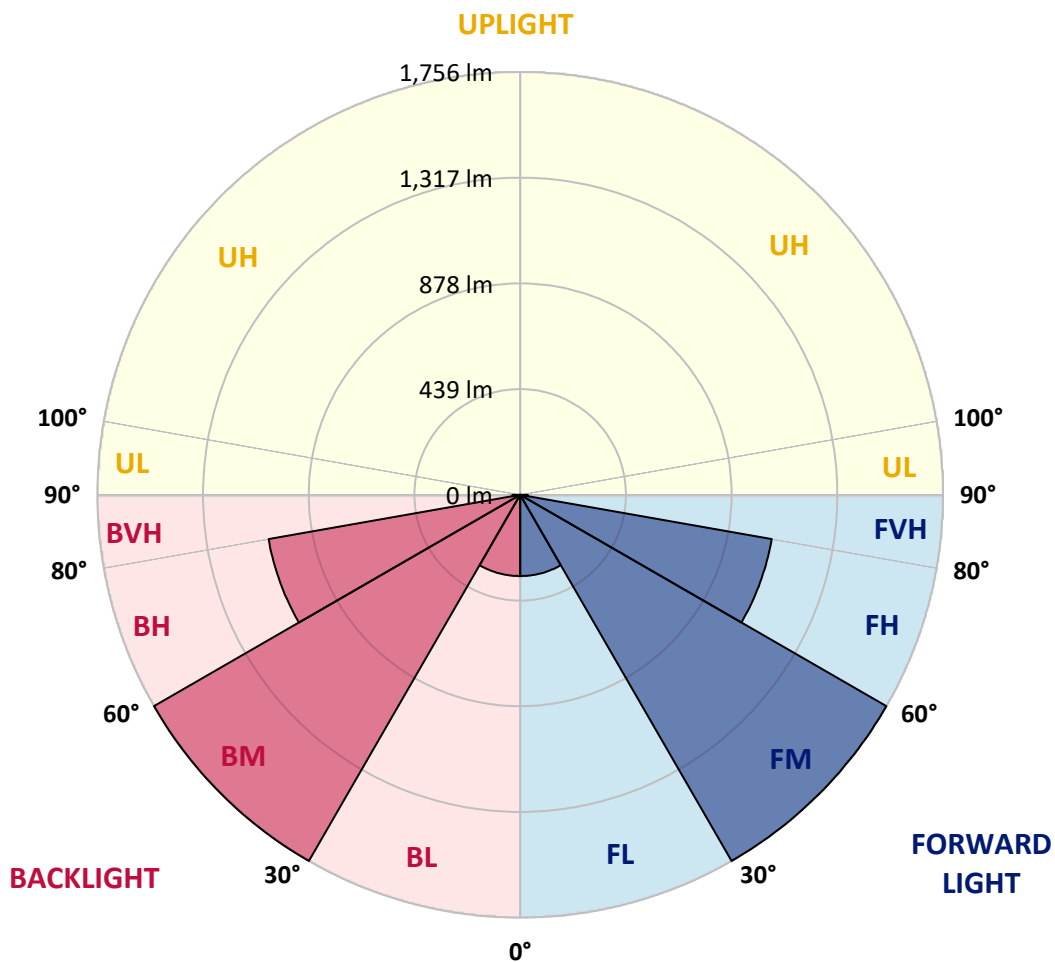
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 337.4 | 5.3 | | | |
| FM | (30°-60°) | 1755.7 | 27.6 | | | |
| FH | (60°-80°) | 1060.7 | 16.6 | | | G1/1800 |
| FVH | (80°-90°) | 31.8 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 337.4 | 5.3 | B1/500 | | |
| BM | (30°-60°) | 1755.7 | 27.6 | B2/2500 | | |
| BH | (60°-80°) | 1060.7 | 16.6 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 31.8 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 |
| 2.5° | 705.5 | 704.9 | 705.5 | 705.2 | 705.8 | 705.8 | 706.4 | 707.6 | 707.6 | 708.5 | 708.2 |
| 5° | 698.6 | 698.3 | 699.2 | 700.1 | 701.0 | 702.8 | 704.6 | 707.3 | 709.4 | 710.9 | 712.4 |
| 7.5° | 685.0 | 685.0 | 686.2 | 688.3 | 690.4 | 694.3 | 698.6 | 704.0 | 709.4 | 713.9 | 717.8 |
| 10° | 673.9 | 674.5 | 676.0 | 679.6 | 683.2 | 689.2 | 694.9 | 702.8 | 710.3 | 717.8 | 723.9 |
| 12.5° | 667.2 | 668.2 | 670.9 | 676.3 | 682.3 | 690.4 | 699.2 | 709.1 | 717.5 | 726.6 | 732.6 |
| 15° | 669.4 | 670.0 | 673.9 | 680.5 | 688.3 | 698.6 | 710.3 | 722.0 | 732.0 | 741.6 | 749.8 |
| 17.5° | 681.1 | 682.0 | 686.5 | 694.0 | 702.2 | 714.2 | 726.9 | 740.1 | 752.5 | 763.3 | 773.2 |
| 20° | 702.2 | 703.1 | 708.8 | 716.9 | 726.6 | 738.9 | 751.6 | 765.4 | 779.3 | 790.7 | 801.8 |
| 22.5° | 732.0 | 733.5 | 738.9 | 747.0 | 757.9 | 771.1 | 786.2 | 800.9 | 814.2 | 824.7 | 834.7 |
| 25° | 771.1 | 774.4 | 779.6 | 788.6 | 800.0 | 812.1 | 828.3 | 843.4 | 856.0 | 866.0 | 873.2 |
| 27.5° | 826.5 | 831.0 | 835.0 | 843.7 | 854.8 | 866.3 | 882.5 | 895.8 | 907.8 | 917.5 | 922.9 |
| 30° | 900.0 | 904.5 | 908.4 | 916.9 | 927.1 | 937.9 | 953.3 | 965.0 | 972.6 | 980.1 | 979.8 |
| 32.5° | 989.1 | 993.9 | 995.5 | 1004.5 | 1015.0 | 1026.8 | 1040.6 | 1047.2 | 1053.3 | 1054.2 | 1048.7 |
| 35° | 1088.8 | 1091.2 | 1097.2 | 1109.3 | 1121.3 | 1130.9 | 1144.2 | 1147.5 | 1147.5 | 1143.0 | 1130.9 |
| 37.5° | 1198.1 | 1199.6 | 1208.0 | 1221.6 | 1233.9 | 1243.9 | 1252.9 | 1259.5 | 1256.2 | 1246.6 | 1226.4 |
| 40° | 1317.9 | 1320.6 | 1332.7 | 1344.7 | 1358.6 | 1367.9 | 1377.6 | 1378.8 | 1375.4 | 1361.3 | 1333.9 |
| 42.5° | 1432.4 | 1434.8 | 1446.8 | 1465.8 | 1483.8 | 1496.8 | 1505.8 | 1507.6 | 1497.1 | 1484.1 | 1450.1 |
| 45° | 1530.8 | 1537.1 | 1552.8 | 1575.1 | 1601.3 | 1619.6 | 1632.0 | 1637.1 | 1627.8 | 1610.9 | 1571.5 |
| 47.5° | 1608.8 | 1615.1 | 1637.4 | 1663.9 | 1696.4 | 1726.2 | 1746.7 | 1757.5 | 1755.1 | 1742.5 | 1699.4 |
| 50° | 1666.0 | 1672.0 | 1696.1 | 1728.6 | 1766.6 | 1803.6 | 1838.5 | 1864.4 | 1873.5 | 1867.8 | 1828.3 |
| 52.5° | 1672.6 | 1682.6 | 1710.9 | 1754.5 | 1803.9 | 1854.5 | 1904.2 | 1948.1 | 1978.0 | 1982.5 | 1953.3 |
| 55° | 1580.2 | 1590.1 | 1629.3 | 1694.0 | 1767.5 | 1850.0 | 1929.5 | 2003.5 | 2062.3 | 2092.4 | 2077.0 |
| 57.5° | 1362.2 | 1380.0 | 1421.2 | 1497.1 | 1605.2 | 1728.6 | 1855.4 | 1987.0 | 2106.5 | 2186.3 | 2201.7 |
| 60° | 1043.9 | 1065.0 | 1106.6 | 1187.3 | 1307.7 | 1454.9 | 1624.2 | 1818.7 | 2029.7 | 2209.2 | 2316.4 |
| 62.5° | 669.7 | 689.5 | 733.2 | 803.3 | 901.5 | 1061.1 | 1242.7 | 1473.6 | 1757.2 | 2040.6 | 2295.9 |
| 65° | 344.2 | 355.0 | 377.9 | 420.3 | 496.8 | 616.1 | 779.0 | 1009.3 | 1333.6 | 1683.2 | 2052.3 |
| 67.5° | 218.0 | 220.1 | 225.2 | 231.2 | 250.8 | 292.1 | 367.9 | 511.6 | 778.4 | 1143.0 | 1575.1 |
| 70° | 188.5 | 188.5 | 186.1 | 185.2 | 187.6 | 193.3 | 205.1 | 238.5 | 328.5 | 542.6 | 908.4 |
| 72.5° | 172.5 | 170.7 | 166.5 | 163.2 | 162.6 | 162.6 | 165.0 | 170.1 | 184.6 | 221.0 | 355.6 |
| 75° | 159.0 | 153.9 | 148.1 | 144.2 | 142.7 | 141.2 | 140.9 | 141.8 | 144.8 | 150.6 | 169.8 |
| 77.5° | 142.4 | 135.8 | 129.2 | 125.3 | 123.5 | 121.3 | 119.5 | 117.4 | 115.9 | 117.7 | 126.2 |
| 80° | 122.5 | 115.0 | 109.9 | 107.5 | 105.7 | 102.7 | 98.8 | 95.1 | 91.8 | 91.2 | 96.4 |
| 82.5° | 98.8 | 90.0 | 90.3 | 91.2 | 87.9 | 83.7 | 79.5 | 75.6 | 69.9 | 66.8 | 69.9 |
| 85° | 79.8 | 75.3 | 73.2 | 78.9 | 74.1 | 67.7 | 61.1 | 54.2 | 45.2 | 37.9 | 41.3 |
| 87.5° | 31.0 | 31.0 | 46.4 | 71.4 | 64.1 | 52.4 | 44.9 | 38.2 | 23.8 | 18.4 | 18.7 |
| 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° | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 | 706.7 |
| 2.5° | 707.9 | 708.5 | 708.2 | 707.9 | 707.9 | 707.6 | 707.9 | 707.9 |
| 5° | 713.3 | 714.8 | 714.8 | 715.4 | 715.4 | 715.7 | 716.0 | 715.7 |
| 7.5° | 721.4 | 724.2 | 726.0 | 728.1 | 728.4 | 728.7 | 729.3 | 728.7 |
| 10° | 729.6 | 735.0 | 738.9 | 742.8 | 744.6 | 745.2 | 745.8 | 745.8 |
| 12.5° | 739.8 | 747.3 | 754.3 | 761.2 | 764.5 | 766.3 | 766.3 | 767.5 |
| 15° | 756.7 | 764.2 | 772.3 | 781.7 | 787.4 | 790.4 | 791.3 | 791.3 |
| 17.5° | 780.5 | 787.1 | 794.0 | 803.0 | 810.3 | 814.2 | 815.1 | 814.8 |
| 20° | 808.2 | 814.5 | 818.4 | 824.1 | 830.4 | 835.0 | 836.2 | 836.2 |
| 22.5° | 839.8 | 843.4 | 844.0 | 845.8 | 850.9 | 856.9 | 859.7 | 860.3 |
| 25° | 874.7 | 875.6 | 873.2 | 873.2 | 876.5 | 882.2 | 884.9 | 885.2 |
| 27.5° | 919.9 | 915.4 | 909.3 | 907.2 | 909.3 | 916.0 | 919.3 | 920.5 |
| 30° | 976.2 | 965.3 | 951.5 | 944.0 | 942.8 | 951.5 | 957.5 | 958.4 |
| 32.5° | 1040.6 | 1025.0 | 1006.6 | 991.2 | 987.3 | 992.7 | 1000.0 | 999.7 |
| 35° | 1117.1 | 1098.4 | 1076.1 | 1056.6 | 1047.5 | 1053.0 | 1063.2 | 1064.4 |
| 37.5° | 1205.3 | 1180.9 | 1155.3 | 1130.6 | 1116.5 | 1118.0 | 1128.8 | 1132.5 |
| 40° | 1303.8 | 1272.2 | 1239.9 | 1206.8 | 1186.7 | 1182.7 | 1196.0 | 1198.1 |
| 42.5° | 1409.2 | 1368.5 | 1327.9 | 1286.9 | 1261.0 | 1255.0 | 1270.4 | 1269.5 |
| 45° | 1521.5 | 1469.7 | 1422.1 | 1377.0 | 1346.2 | 1337.2 | 1349.9 | 1349.9 |
| 47.5° | 1642.2 | 1578.4 | 1521.8 | 1470.6 | 1437.2 | 1424.2 | 1436.3 | 1437.2 |
| 50° | 1770.2 | 1702.4 | 1635.9 | 1579.0 | 1538.9 | 1522.4 | 1538.0 | 1540.5 |
| 52.5° | 1897.6 | 1831.6 | 1764.5 | 1699.4 | 1651.0 | 1630.8 | 1648.8 | 1656.7 |
| 55° | 2026.7 | 1962.0 | 1897.9 | 1834.3 | 1776.8 | 1753.0 | 1772.3 | 1782.2 |
| 57.5° | 2163.1 | 2103.2 | 2042.1 | 1978.0 | 1922.6 | 1885.5 | 1906.0 | 1919.2 |
| 60° | 2323.0 | 2271.8 | 2208.3 | 2137.5 | 2081.5 | 2043.9 | 2055.6 | 2067.4 |
| 62.5° | 2449.5 | 2469.4 | 2415.5 | 2333.6 | 2261.6 | 2213.4 | 2224.9 | 2237.2 |
| 65° | 2388.4 | 2592.2 | 2640.1 | 2557.3 | 2457.6 | 2382.6 | 2377.8 | 2384.1 |
| 67.5° | 1996.3 | 2392.3 | 2681.0 | 2759.9 | 2676.5 | 2572.3 | 2553.1 | 2562.4 |
| 70° | 1335.4 | 1828.6 | 2338.1 | 2717.5 | 2818.3 | 2778.0 | 2759.0 | 2764.7 |
| 72.5° | 641.4 | 1065.0 | 1586.2 | 2090.6 | 2397.7 | 2538.6 | 2583.8 | 2605.8 |
| 75° | 234.6 | 422.8 | 764.5 | 1152.0 | 1390.8 | 1610.0 | 1753.0 | 1811.4 |
| 77.5° | 141.5 | 170.7 | 244.2 | 367.6 | 416.4 | 466.1 | 446.8 | 456.5 |
| 80° | 104.8 | 118.3 | 134.0 | 150.6 | 156.0 | 156.0 | 150.0 | 145.1 |
| 82.5° | 73.5 | 82.2 | 89.7 | 98.8 | 101.2 | 96.7 | 79.5 | 63.2 |
| 85° | 47.3 | 51.2 | 54.5 | 60.2 | 58.7 | 56.0 | 37.6 | 33.4 |
| 87.5° | 21.7 | 24.7 | 25.9 | 28.6 | 27.4 | 26.2 | 18.7 | 15.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)