

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: McGRAW-EDISON

Report Number: P200229

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-5NQ-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5298 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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: 25 FT

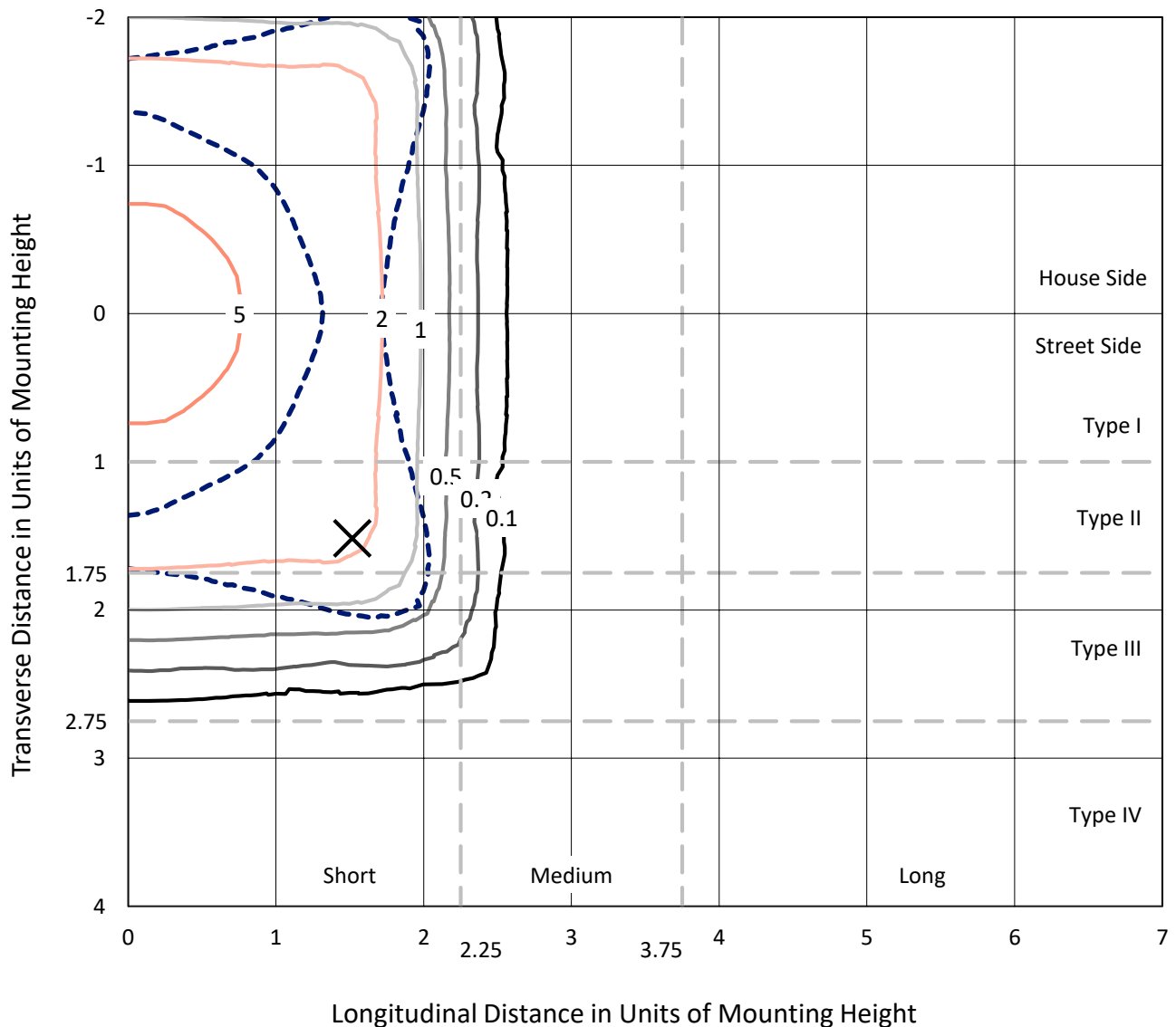


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Iso-Footcandle Lines of Horizontal Illumination

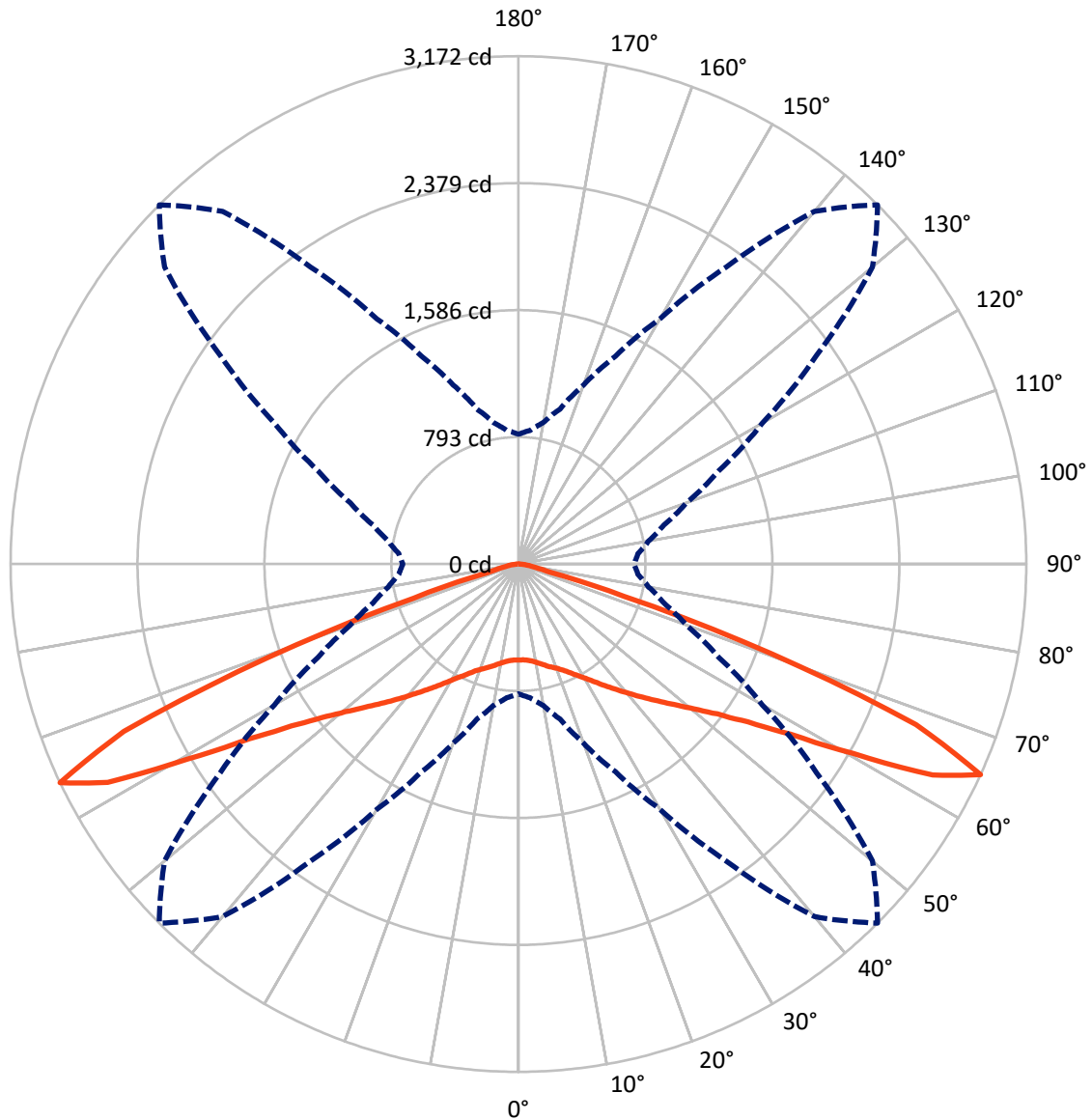
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2649.0 | 0.0 | 2649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2649.0 | 0.0 | 2649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5298.0 | 0.0 | 5298.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.4 | 1.1 |
| 10°-20° | 187.4 | 3.5 |
| 20°-30° | 350.4 | 6.6 |
| 30°-40° | 592.6 | 11.2 |
| 40°-50° | 969.0 | 18.3 |
| 50°-60° | 1540.8 | 29.1 |
| 60°-70° | 1392.8 | 26.3 |
| 70°-80° | 176.3 | 3.3 |
| 80°-90° | 30.3 | 0.6 |
| 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° | 5298.0 | 100.0 |
| 0°-180° | 5298.0 | 100.0 |



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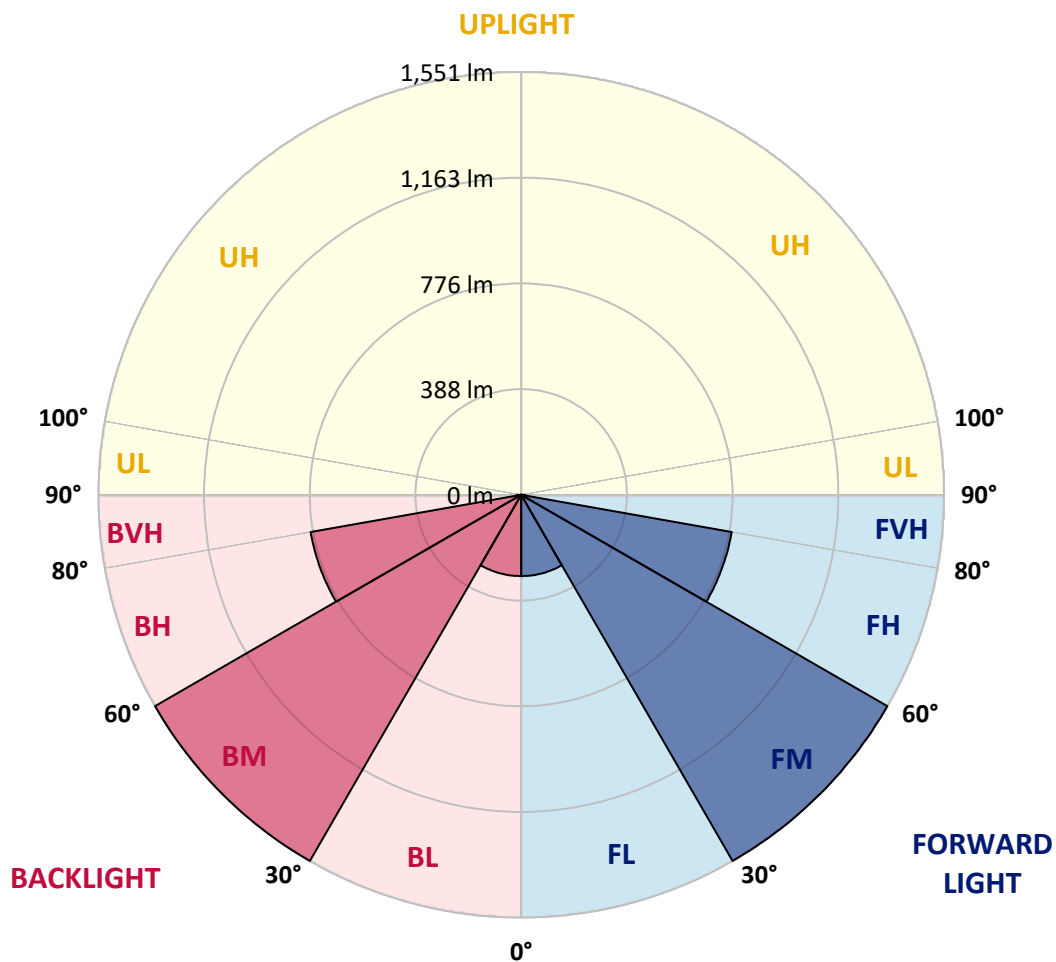
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 298.1 | 5.6 | | | |
| FM | (30°-60°) | 1551.2 | 29.3 | | | |
| FH | (60°-80°) | 784.5 | 14.8 | | | G1/1800 |
| FVH | (80°-90°) | 15.2 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 298.1 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 1551.2 | 29.3 | B2/2500 | | |
| BH | (60°-80°) | 784.5 | 14.8 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 15.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 |
| 2.5° | 600.0 | 600.5 | 601.0 | 600.5 | 601.0 | 600.2 | 599.7 | 600.5 | 599.7 | 599.0 | 599.5 |
| 5° | 605.2 | 605.4 | 605.4 | 604.7 | 605.4 | 604.9 | 604.2 | 605.2 | 604.4 | 603.7 | 604.2 |
| 7.5° | 613.9 | 614.9 | 614.1 | 613.4 | 613.9 | 613.4 | 612.9 | 613.1 | 612.9 | 612.1 | 612.4 |
| 10° | 625.5 | 626.3 | 625.8 | 625.5 | 626.0 | 625.8 | 625.3 | 625.0 | 625.3 | 624.5 | 624.5 |
| 12.5° | 639.7 | 639.4 | 639.2 | 639.4 | 640.2 | 640.2 | 639.9 | 640.2 | 640.7 | 640.9 | 640.4 |
| 15° | 653.6 | 654.1 | 654.1 | 654.1 | 655.5 | 656.8 | 657.5 | 658.0 | 659.0 | 659.3 | 658.3 |
| 17.5° | 670.9 | 670.9 | 670.7 | 670.9 | 672.4 | 674.4 | 675.1 | 676.1 | 677.1 | 677.9 | 676.6 |
| 20° | 690.3 | 690.8 | 690.8 | 691.3 | 693.3 | 695.5 | 695.5 | 696.0 | 695.5 | 696.0 | 695.2 |
| 22.5° | 713.9 | 715.3 | 715.3 | 715.6 | 717.6 | 720.3 | 719.6 | 720.3 | 719.1 | 720.1 | 719.1 |
| 25° | 744.6 | 746.9 | 746.4 | 746.4 | 747.9 | 749.6 | 749.8 | 751.3 | 751.1 | 752.3 | 751.6 |
| 27.5° | 779.4 | 782.8 | 783.8 | 783.6 | 784.6 | 786.3 | 786.8 | 788.5 | 787.6 | 788.5 | 788.0 |
| 30° | 821.0 | 822.5 | 824.5 | 825.3 | 826.5 | 828.2 | 828.2 | 828.5 | 827.3 | 828.7 | 829.5 |
| 32.5° | 864.2 | 867.0 | 868.9 | 873.4 | 875.6 | 876.9 | 876.6 | 877.1 | 875.9 | 877.9 | 879.4 |
| 35° | 921.3 | 923.3 | 926.5 | 930.0 | 933.0 | 932.7 | 932.0 | 932.2 | 932.2 | 933.9 | 935.4 |
| 37.5° | 990.0 | 990.5 | 994.7 | 999.7 | 1001.2 | 999.7 | 995.2 | 994.2 | 992.0 | 994.2 | 996.7 |
| 40° | 1062.7 | 1064.5 | 1072.9 | 1076.1 | 1076.9 | 1074.1 | 1067.7 | 1064.0 | 1059.0 | 1061.7 | 1065.2 |
| 42.5° | 1138.9 | 1142.4 | 1150.1 | 1155.8 | 1158.3 | 1156.5 | 1147.6 | 1141.9 | 1135.4 | 1136.9 | 1140.4 |
| 45° | 1223.3 | 1227.5 | 1238.4 | 1243.9 | 1248.6 | 1245.8 | 1237.2 | 1228.5 | 1218.3 | 1219.0 | 1224.5 |
| 47.5° | 1317.5 | 1321.8 | 1335.9 | 1345.1 | 1347.6 | 1347.1 | 1337.4 | 1325.5 | 1311.6 | 1311.1 | 1315.8 |
| 50° | 1423.2 | 1427.5 | 1445.1 | 1459.2 | 1466.4 | 1465.7 | 1454.3 | 1437.4 | 1420.5 | 1420.8 | 1426.7 |
| 52.5° | 1526.5 | 1531.7 | 1550.0 | 1574.4 | 1588.5 | 1598.7 | 1591.7 | 1575.8 | 1555.3 | 1555.7 | 1561.2 |
| 55° | 1623.2 | 1631.9 | 1653.0 | 1686.0 | 1712.3 | 1740.8 | 1749.0 | 1748.5 | 1736.1 | 1739.6 | 1745.1 |
| 57.5° | 1670.1 | 1683.0 | 1715.5 | 1767.6 | 1821.2 | 1879.3 | 1928.4 | 1965.2 | 1980.8 | 2004.4 | 1998.9 |
| 60° | 1581.3 | 1601.9 | 1649.8 | 1726.5 | 1832.4 | 1953.5 | 2083.3 | 2210.1 | 2318.2 | 2399.9 | 2353.0 |
| 62.5° | 1294.7 | 1321.5 | 1379.6 | 1477.8 | 1638.1 | 1831.9 | 2080.3 | 2380.0 | 2706.6 | 2903.6 | 2762.9 |
| 65° | 810.1 | 837.9 | 897.0 | 1002.2 | 1189.8 | 1430.7 | 1767.6 | 2264.4 | 2874.5 | 3171.5 | 2885.2 |
| 67.5° | 315.9 | 331.0 | 363.0 | 430.2 | 571.2 | 785.6 | 1123.8 | 1687.5 | 2417.2 | 2677.5 | 2372.3 |
| 70° | 158.3 | 159.8 | 165.7 | 178.2 | 208.4 | 270.7 | 411.9 | 782.3 | 1386.3 | 1674.4 | 1336.4 |
| 72.5° | 114.4 | 114.6 | 117.6 | 123.1 | 132.7 | 146.6 | 173.4 | 239.4 | 450.8 | 689.0 | 422.6 |
| 75° | 87.6 | 88.6 | 90.3 | 93.3 | 98.5 | 105.5 | 115.1 | 138.0 | 171.0 | 198.3 | 166.7 |
| 77.5° | 67.5 | 69.5 | 70.7 | 73.4 | 76.7 | 81.4 | 84.1 | 92.8 | 107.9 | 113.6 | 111.9 |
| 80° | 51.4 | 53.1 | 55.8 | 58.1 | 60.3 | 62.5 | 61.5 | 65.5 | 73.4 | 78.2 | 75.7 |
| 82.5° | 32.8 | 34.7 | 42.7 | 44.7 | 45.7 | 47.1 | 45.4 | 45.7 | 49.1 | 52.1 | 49.1 |
| 85° | 21.1 | 22.3 | 27.0 | 29.5 | 29.8 | 30.8 | 30.0 | 28.3 | 28.3 | 25.8 | 29.0 |
| 87.5° | 9.7 | 9.9 | 12.2 | 14.4 | 14.9 | 13.4 | 13.2 | 12.7 | 10.2 | 9.7 | 10.4 |
| 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° | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 |
| 2.5° | 599.2 | 599.7 | 600.0 | 600.7 | 601.0 | 601.0 | 601.2 | 601.7 |
| 5° | 603.9 | 604.7 | 604.9 | 605.9 | 606.2 | 605.9 | 606.4 | 606.7 |
| 7.5° | 612.4 | 613.6 | 614.1 | 615.1 | 614.4 | 615.4 | 615.6 | 615.6 |
| 10° | 624.8 | 626.0 | 626.3 | 627.3 | 626.8 | 627.3 | 627.3 | 626.8 |
| 12.5° | 641.2 | 641.4 | 640.7 | 641.4 | 640.4 | 640.9 | 640.2 | 639.7 |
| 15° | 659.3 | 658.5 | 656.8 | 656.8 | 655.3 | 655.5 | 655.3 | 655.1 |
| 17.5° | 676.9 | 675.4 | 674.2 | 673.7 | 672.4 | 672.2 | 671.4 | 671.4 |
| 20° | 696.2 | 695.5 | 694.8 | 693.8 | 692.5 | 691.3 | 691.0 | 691.5 |
| 22.5° | 719.6 | 719.3 | 719.3 | 718.8 | 717.1 | 715.8 | 715.1 | 715.1 |
| 25° | 750.8 | 748.6 | 748.6 | 748.3 | 747.6 | 746.9 | 745.4 | 746.1 |
| 27.5° | 786.1 | 784.8 | 785.8 | 785.6 | 784.8 | 784.8 | 783.8 | 783.8 |
| 30° | 829.5 | 829.0 | 830.5 | 829.2 | 826.8 | 826.5 | 825.5 | 824.3 |
| 32.5° | 879.6 | 879.1 | 881.3 | 879.9 | 875.9 | 873.7 | 871.7 | 870.7 |
| 35° | 935.4 | 935.7 | 938.4 | 937.4 | 933.0 | 931.5 | 928.0 | 927.5 |
| 37.5° | 996.5 | 1000.4 | 1005.2 | 1006.1 | 1002.4 | 1001.4 | 997.7 | 995.7 |
| 40° | 1068.2 | 1073.4 | 1080.6 | 1082.3 | 1078.4 | 1077.6 | 1072.4 | 1069.7 |
| 42.5° | 1144.6 | 1153.5 | 1162.5 | 1164.0 | 1160.0 | 1156.0 | 1151.1 | 1149.1 |
| 45° | 1230.0 | 1240.6 | 1252.3 | 1255.3 | 1249.3 | 1244.6 | 1238.1 | 1238.1 |
| 47.5° | 1325.7 | 1339.1 | 1352.3 | 1360.5 | 1355.0 | 1350.1 | 1342.4 | 1337.4 |
| 50° | 1438.9 | 1457.2 | 1474.4 | 1482.8 | 1474.1 | 1464.7 | 1451.3 | 1446.8 |
| 52.5° | 1580.8 | 1600.7 | 1615.5 | 1611.1 | 1597.7 | 1584.5 | 1569.9 | 1563.9 |
| 55° | 1761.9 | 1768.6 | 1768.6 | 1751.8 | 1725.0 | 1702.9 | 1679.8 | 1672.1 |
| 57.5° | 1988.5 | 1962.7 | 1923.0 | 1872.6 | 1809.3 | 1754.2 | 1717.0 | 1699.4 |
| 60° | 2254.7 | 2130.7 | 1990.5 | 1852.8 | 1739.6 | 1646.3 | 1591.0 | 1565.7 |
| 62.5° | 2432.1 | 2107.6 | 1826.7 | 1605.6 | 1442.9 | 1330.4 | 1254.0 | 1224.3 |
| 65° | 2273.1 | 1757.7 | 1381.6 | 1117.1 | 939.7 | 825.3 | 749.6 | 721.8 |
| 67.5° | 1664.9 | 1101.4 | 735.7 | 527.3 | 386.3 | 308.2 | 277.2 | 264.3 |
| 70° | 747.4 | 387.8 | 237.7 | 185.6 | 160.0 | 146.9 | 141.2 | 139.2 |
| 72.5° | 225.3 | 163.0 | 137.5 | 124.1 | 113.9 | 107.4 | 102.7 | 102.2 |
| 75° | 136.0 | 113.1 | 100.5 | 92.6 | 86.1 | 80.9 | 78.4 | 77.7 |
| 77.5° | 95.0 | 83.1 | 77.2 | 71.5 | 66.5 | 62.5 | 60.3 | 58.6 |
| 80° | 66.7 | 61.0 | 58.3 | 55.1 | 51.9 | 48.1 | 44.9 | 43.4 |
| 82.5° | 44.7 | 43.4 | 43.4 | 41.4 | 38.7 | 35.2 | 28.8 | 27.3 |
| 85° | 28.8 | 28.5 | 29.0 | 28.3 | 26.3 | 22.6 | 18.6 | 17.6 |
| 87.5° | 13.4 | 13.6 | 15.1 | 14.9 | 14.4 | 11.9 | 9.4 | 8.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)