

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: INVUE

Report Number: P472160

Luminaire Tested: **CCP-VA-2-740-U-T4W**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472160
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-2-740-U-T4W
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W
DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

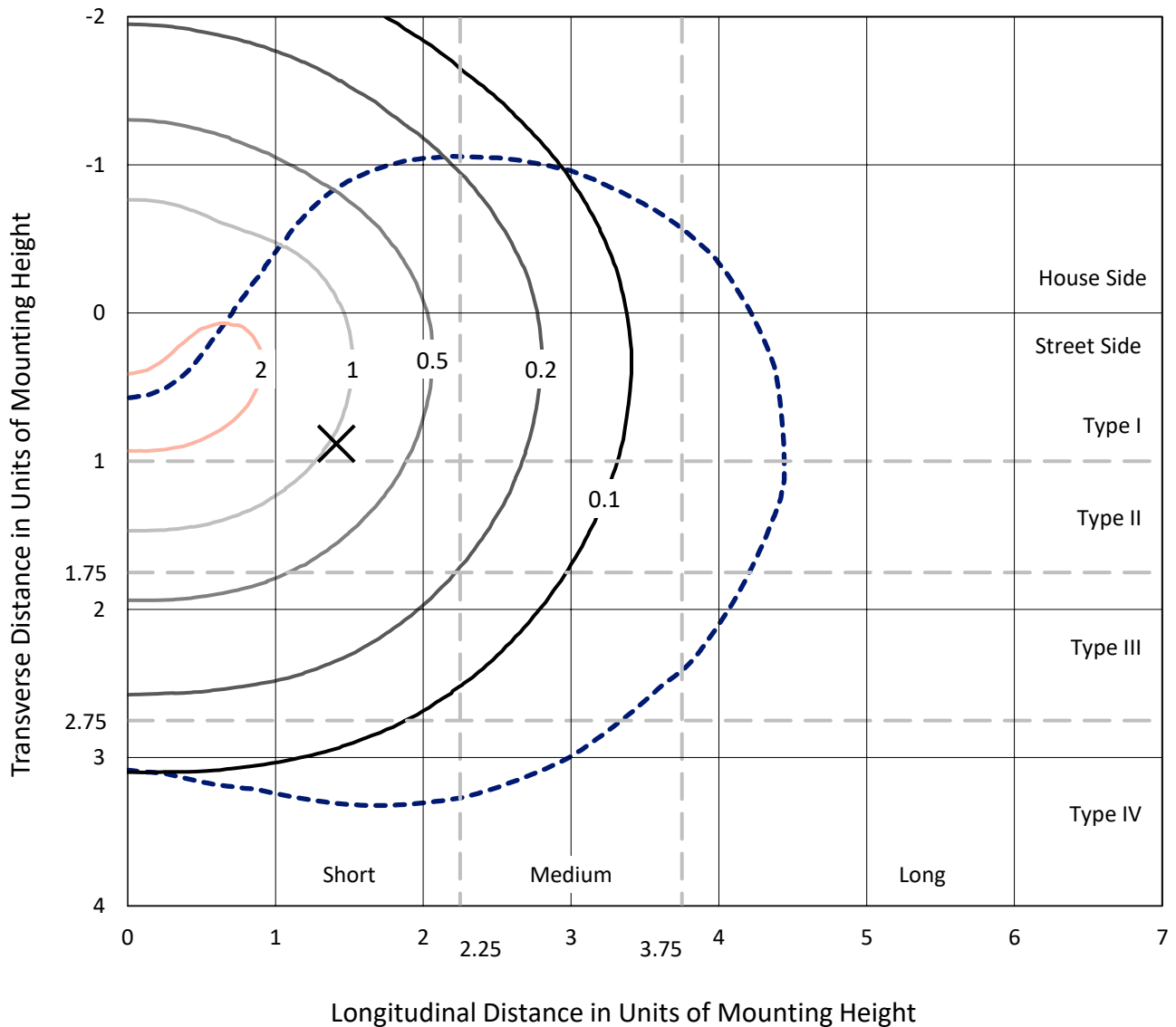
Lumens per Lamp: N/A
Luminaire Lumens: 4387.8 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.2
Input Voltage (V): 120
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

REPORT NUMBER: P472160
 CATALOG NUMBER: CCP-VA-2-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

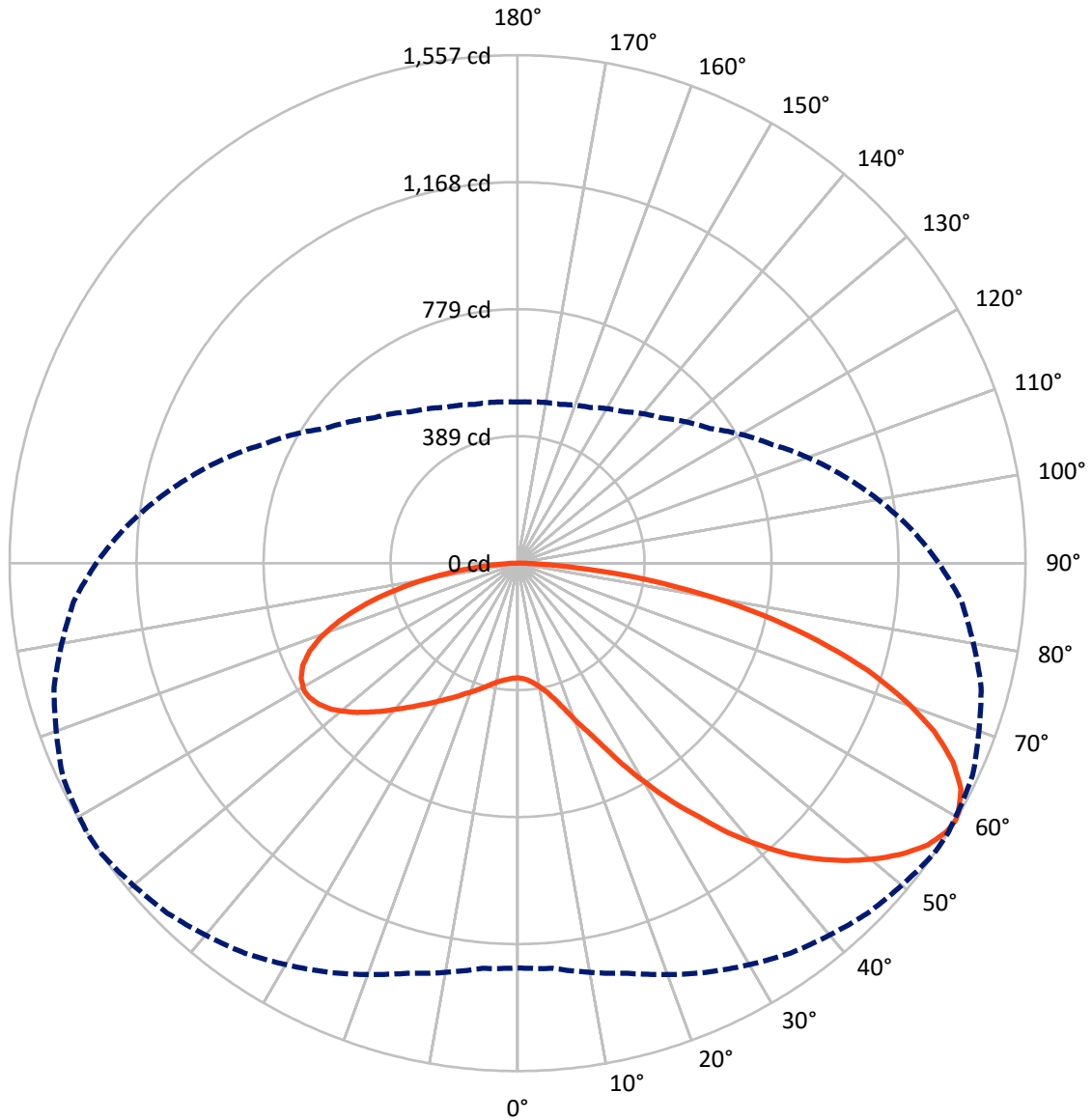
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P472160
CATALOG NUMBER: CCP-VA-2-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1564.9 | 0.0 | 1564.9 |
| | % Fixture | 35.7 | 0.0 | 35.7 |
| Street Side | Lumens | 2823.0 | 0.0 | 2823.0 |
| | % Fixture | 64.3 | 0.0 | 64.3 |
| Total | Lumens | 4387.8 | 0.0 | 4387.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.9 | 0.8 |
| 10°-20° | 119.0 | 2.7 |
| 20°-30° | 251.2 | 5.7 |
| 30°-40° | 462.3 | 10.5 |
| 40°-50° | 720.6 | 16.4 |
| 50°-60° | 946.9 | 21.6 |
| 60°-70° | 992.2 | 22.6 |
| 70°-80° | 687.9 | 15.7 |
| 80°-90° | 172.7 | 3.9 |
| 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° | 4387.8 | 100.0 |
| 0°-180° | 4387.8 | 100.0 |



REPORT NUMBER: P472160

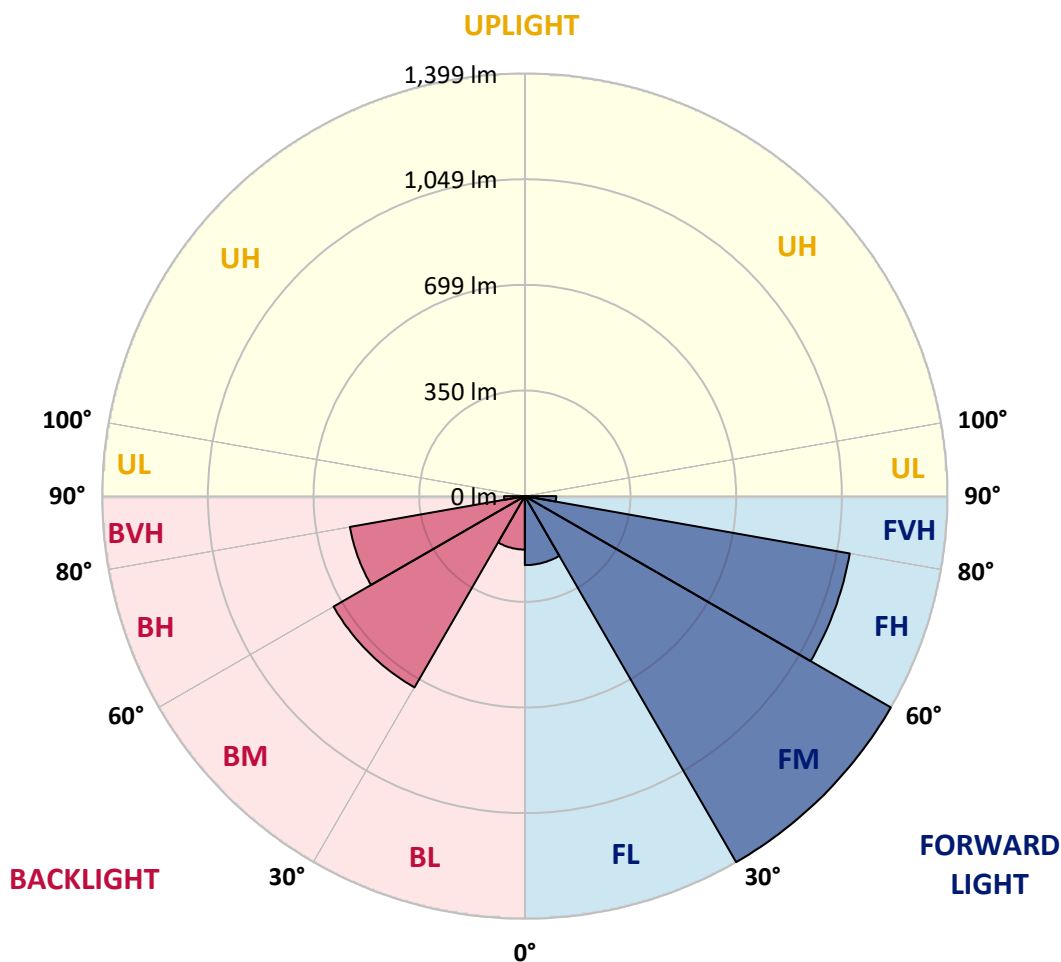
CATALOG NUMBER: CCP-VA-2-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 228.3 | 5.2 | | | |
| FM (30°-60°) | 1398.8 | 31.9 | | | |
| FH (60°-80°) | 1092.1 | 24.9 | | | G1/1800 |
| FVH (80°-90°) | 103.8 | 2.4 | | | G2/225 |
| BL (0°-30°) | 176.9 | 4.0 | B1/500 | | |
| BM (30°-60°) | 731.1 | 16.7 | B1/1000 | | |
| BH (60°-80°) | 588.0 | 13.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 68.9 | 1.6 | | | 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





REPORT NUMBER: P472160

CATALOG NUMBER: CCP-VA-2-740-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 |
| 2.5° | 356.7 | 356.7 | 356.7 | 355.7 | 355.7 | 355.7 | 354.7 | 354.7 | 354.7 | 353.7 | 352.7 |
| 5° | 364.6 | 364.6 | 363.6 | 364.6 | 363.6 | 362.6 | 361.6 | 361.6 | 361.6 | 360.6 | 359.7 |
| 7.5° | 375.5 | 376.5 | 375.5 | 376.5 | 375.5 | 374.5 | 372.5 | 372.5 | 371.5 | 369.5 | 367.6 |
| 10° | 392.3 | 392.3 | 392.3 | 391.3 | 390.3 | 389.3 | 388.3 | 387.3 | 386.3 | 383.4 | 380.4 |
| 12.5° | 413.0 | 413.0 | 413.0 | 411.0 | 411.0 | 409.1 | 408.1 | 407.1 | 405.1 | 401.2 | 397.2 |
| 15° | 438.7 | 437.7 | 440.7 | 440.7 | 439.7 | 439.7 | 436.7 | 434.7 | 432.8 | 426.8 | 418.0 |
| 17.5° | 473.3 | 472.3 | 475.3 | 477.2 | 477.2 | 478.2 | 473.3 | 471.3 | 464.4 | 456.5 | 444.6 |
| 20° | 519.7 | 517.7 | 520.7 | 522.7 | 520.7 | 522.7 | 517.7 | 518.7 | 508.9 | 495.0 | 476.2 |
| 22.5° | 570.1 | 570.1 | 573.1 | 573.1 | 574.1 | 576.0 | 570.1 | 567.1 | 559.2 | 539.5 | 515.8 |
| 25° | 632.4 | 637.3 | 637.3 | 637.3 | 641.3 | 642.2 | 636.3 | 631.4 | 620.5 | 593.8 | 561.2 |
| 27.5° | 708.4 | 707.5 | 706.5 | 712.4 | 712.4 | 714.4 | 710.4 | 708.4 | 695.6 | 663.0 | 613.6 |
| 30° | 789.5 | 783.5 | 787.5 | 789.5 | 793.4 | 796.4 | 792.4 | 786.5 | 770.7 | 735.1 | 673.9 |
| 32.5° | 863.6 | 867.5 | 873.5 | 875.4 | 881.4 | 882.3 | 872.5 | 872.5 | 856.7 | 811.2 | 748.0 |
| 35° | 947.6 | 947.6 | 963.4 | 970.3 | 970.3 | 976.2 | 961.4 | 953.5 | 942.6 | 895.2 | 815.2 |
| 37.5° | 1020.7 | 1022.6 | 1035.5 | 1051.3 | 1053.3 | 1062.2 | 1051.3 | 1048.3 | 1028.6 | 980.2 | 891.2 |
| 40° | 1088.8 | 1090.8 | 1106.6 | 1125.4 | 1136.3 | 1150.1 | 1139.2 | 1134.3 | 1113.6 | 1058.2 | 967.3 |
| 42.5° | 1142.2 | 1146.2 | 1165.9 | 1193.6 | 1211.4 | 1228.2 | 1223.2 | 1220.3 | 1191.6 | 1133.3 | 1037.5 |
| 45° | 1182.7 | 1189.6 | 1217.3 | 1249.9 | 1274.6 | 1299.3 | 1300.3 | 1294.4 | 1267.7 | 1202.5 | 1105.6 |
| 47.5° | 1215.3 | 1223.2 | 1253.9 | 1295.4 | 1332.9 | 1363.5 | 1369.5 | 1362.5 | 1337.8 | 1269.7 | 1166.9 |
| 50° | 1242.0 | 1246.0 | 1280.5 | 1333.9 | 1380.3 | 1418.9 | 1430.7 | 1424.8 | 1403.1 | 1326.0 | 1220.3 |
| 52.5° | 1255.8 | 1261.8 | 1301.3 | 1362.5 | 1418.9 | 1465.3 | 1483.1 | 1480.1 | 1454.4 | 1377.4 | 1267.7 |
| 55° | 1262.7 | 1268.7 | 1315.1 | 1385.3 | 1448.5 | 1502.8 | 1524.6 | 1525.6 | 1500.9 | 1423.8 | 1312.2 |
| 57.5° | 1254.8 | 1262.7 | 1313.1 | 1391.2 | 1461.3 | 1519.6 | 1553.2 | 1552.3 | 1532.5 | 1459.4 | 1349.7 |
| 59° | 1241.0 | 1246.9 | 1301.3 | 1383.3 | 1459.4 | 1517.7 | 1556.2 | 1557.2 | 1539.4 | 1471.2 | 1366.5 |
| 60° | 1225.2 | 1232.1 | 1287.4 | 1373.4 | 1451.5 | 1510.8 | 1551.3 | 1553.2 | 1538.4 | 1474.2 | 1373.4 |
| 62.5° | 1170.9 | 1179.8 | 1241.0 | 1332.9 | 1417.9 | 1474.2 | 1522.6 | 1525.6 | 1517.7 | 1466.3 | 1378.4 |
| 65° | 1094.8 | 1102.7 | 1168.9 | 1266.7 | 1355.6 | 1413.9 | 1459.4 | 1466.3 | 1465.3 | 1430.7 | 1358.6 |
| 67.5° | 1001.9 | 1002.9 | 1065.1 | 1171.8 | 1264.7 | 1322.0 | 1365.5 | 1377.4 | 1386.3 | 1363.5 | 1300.3 |
| 70° | 890.2 | 889.3 | 949.5 | 1055.3 | 1148.1 | 1208.4 | 1251.9 | 1259.8 | 1282.5 | 1264.7 | 1213.3 |
| 72.5° | 751.9 | 763.8 | 820.1 | 909.0 | 1000.9 | 1068.1 | 1106.6 | 1121.5 | 1134.3 | 1138.3 | 1095.8 |
| 75° | 621.5 | 634.3 | 678.8 | 761.8 | 840.8 | 903.1 | 944.6 | 951.5 | 975.2 | 981.1 | 941.6 |
| 77.5° | 497.0 | 498.0 | 530.6 | 596.8 | 668.9 | 720.3 | 753.9 | 771.7 | 784.5 | 796.4 | 754.9 |
| 80° | 348.8 | 353.7 | 376.5 | 423.9 | 480.2 | 534.5 | 562.2 | 574.1 | 583.0 | 590.9 | 577.0 |
| 82.5° | 218.4 | 220.3 | 235.2 | 263.8 | 302.3 | 333.0 | 361.6 | 371.5 | 373.5 | 391.3 | 389.3 |
| 85° | 103.7 | 104.7 | 114.6 | 128.4 | 145.2 | 169.9 | 180.8 | 180.8 | 194.6 | 207.5 | 207.5 |
| 87.5° | 13.8 | 13.8 | 16.8 | 18.8 | 23.7 | 30.6 | 42.5 | 43.5 | 51.4 | 57.3 | 62.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P472160
 CATALOG NUMBER: CCP-VA-2-740-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 |
| 2.5° | 352.7 | 352.7 | 352.7 | 352.7 | 352.7 | 351.8 | 352.7 | 352.7 | 352.7 | 352.7 | 352.7 |
| 5° | 359.7 | 358.7 | 357.7 | 356.7 | 356.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 | 355.7 |
| 7.5° | 366.6 | 365.6 | 364.6 | 362.6 | 361.6 | 360.6 | 360.6 | 359.7 | 359.7 | 359.7 | 359.7 |
| 10° | 378.4 | 377.4 | 373.5 | 370.5 | 368.5 | 367.6 | 366.6 | 365.6 | 364.6 | 364.6 | 364.6 |
| 12.5° | 394.2 | 392.3 | 385.3 | 381.4 | 378.4 | 376.5 | 374.5 | 373.5 | 372.5 | 371.5 | 371.5 |
| 15° | 414.0 | 409.1 | 400.2 | 394.2 | 390.3 | 387.3 | 384.4 | 382.4 | 381.4 | 380.4 | 380.4 |
| 17.5° | 437.7 | 431.8 | 419.9 | 409.1 | 402.1 | 397.2 | 393.3 | 390.3 | 389.3 | 389.3 | 389.3 |
| 20° | 467.4 | 457.5 | 440.7 | 425.9 | 415.0 | 408.1 | 402.1 | 399.2 | 398.2 | 397.2 | 396.2 |
| 22.5° | 501.9 | 489.1 | 464.4 | 441.7 | 427.8 | 418.0 | 411.0 | 407.1 | 404.1 | 403.1 | 403.1 |
| 25° | 541.5 | 522.7 | 490.1 | 462.4 | 443.6 | 429.8 | 420.9 | 416.0 | 411.0 | 409.1 | 409.1 |
| 27.5° | 588.9 | 564.2 | 520.7 | 484.2 | 458.5 | 441.7 | 431.8 | 424.9 | 419.9 | 416.0 | 414.0 |
| 30° | 640.3 | 612.6 | 554.3 | 507.9 | 475.3 | 456.5 | 444.6 | 436.7 | 429.8 | 422.9 | 421.9 |
| 32.5° | 705.5 | 666.0 | 594.8 | 534.5 | 495.0 | 471.3 | 457.5 | 447.6 | 438.7 | 431.8 | 429.8 |
| 35° | 771.7 | 724.3 | 637.3 | 562.2 | 513.8 | 485.1 | 468.3 | 457.5 | 448.6 | 440.7 | 439.7 |
| 37.5° | 839.9 | 789.5 | 683.7 | 594.8 | 535.5 | 500.9 | 480.2 | 468.3 | 457.5 | 449.6 | 448.6 |
| 40° | 911.0 | 851.7 | 731.2 | 628.4 | 558.3 | 516.8 | 493.0 | 478.2 | 466.4 | 459.5 | 458.5 |
| 42.5° | 978.2 | 914.0 | 782.5 | 667.9 | 584.9 | 533.6 | 505.9 | 490.1 | 475.3 | 468.3 | 467.4 |
| 45° | 1042.4 | 973.2 | 833.9 | 704.5 | 611.6 | 551.3 | 518.7 | 500.0 | 484.2 | 477.2 | 476.2 |
| 47.5° | 1100.7 | 1031.5 | 881.4 | 744.0 | 639.3 | 571.1 | 532.6 | 509.8 | 492.1 | 485.1 | 485.1 |
| 50° | 1153.1 | 1080.9 | 927.8 | 780.6 | 665.0 | 590.9 | 544.4 | 518.7 | 500.9 | 494.0 | 493.0 |
| 52.5° | 1202.5 | 1124.4 | 968.3 | 812.2 | 689.7 | 608.6 | 556.3 | 525.7 | 506.9 | 499.0 | 498.0 |
| 55° | 1242.0 | 1163.9 | 1001.9 | 837.9 | 706.5 | 620.5 | 564.2 | 529.6 | 508.9 | 501.9 | 500.9 |
| 57.5° | 1276.6 | 1196.5 | 1025.6 | 855.7 | 717.3 | 627.4 | 568.1 | 529.6 | 507.9 | 500.0 | 499.0 |
| 59° | 1291.4 | 1210.4 | 1033.5 | 860.6 | 719.3 | 628.4 | 567.1 | 526.6 | 503.9 | 496.0 | 494.0 |
| 60° | 1299.3 | 1216.3 | 1036.5 | 861.6 | 718.3 | 626.4 | 566.2 | 523.7 | 500.0 | 491.1 | 491.1 |
| 62.5° | 1307.2 | 1221.2 | 1032.5 | 853.7 | 707.5 | 615.6 | 556.3 | 511.8 | 485.1 | 475.3 | 475.3 |
| 65° | 1290.4 | 1203.5 | 1009.8 | 832.0 | 685.7 | 596.8 | 537.5 | 492.1 | 462.4 | 452.5 | 452.5 |
| 67.5° | 1241.0 | 1160.0 | 968.3 | 791.4 | 650.1 | 564.2 | 506.9 | 460.4 | 432.8 | 421.9 | 418.9 |
| 70° | 1157.0 | 1088.8 | 903.1 | 733.1 | 601.7 | 522.7 | 468.3 | 423.9 | 395.2 | 384.4 | 380.4 |
| 72.5° | 1044.4 | 977.2 | 816.1 | 662.0 | 537.5 | 468.3 | 420.9 | 378.4 | 346.8 | 335.9 | 336.9 |
| 75° | 889.3 | 841.8 | 703.5 | 572.1 | 463.4 | 399.2 | 359.7 | 324.1 | 297.4 | 288.5 | 289.5 |
| 77.5° | 721.3 | 681.8 | 570.1 | 466.4 | 378.4 | 329.0 | 295.4 | 266.8 | 249.0 | 244.1 | 241.1 |
| 80° | 552.3 | 513.8 | 427.8 | 347.8 | 287.5 | 252.9 | 230.2 | 210.5 | 196.6 | 189.7 | 191.7 |
| 82.5° | 370.5 | 346.8 | 283.6 | 230.2 | 195.6 | 170.9 | 163.0 | 150.2 | 145.2 | 141.3 | 144.3 |
| 85° | 199.6 | 178.8 | 148.2 | 123.5 | 107.7 | 100.8 | 102.8 | 101.8 | 97.8 | 96.8 | 99.8 |
| 87.5° | 65.2 | 56.3 | 43.5 | 36.6 | 37.5 | 33.6 | 33.6 | 31.6 | 28.7 | 27.7 | 29.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)