

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: P472277

Luminaire Tested: **CCP-VA-1-750-U-T4FT**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472277
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-1-750-U-T4FT
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4FT
DISTRIBUTION LENS
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

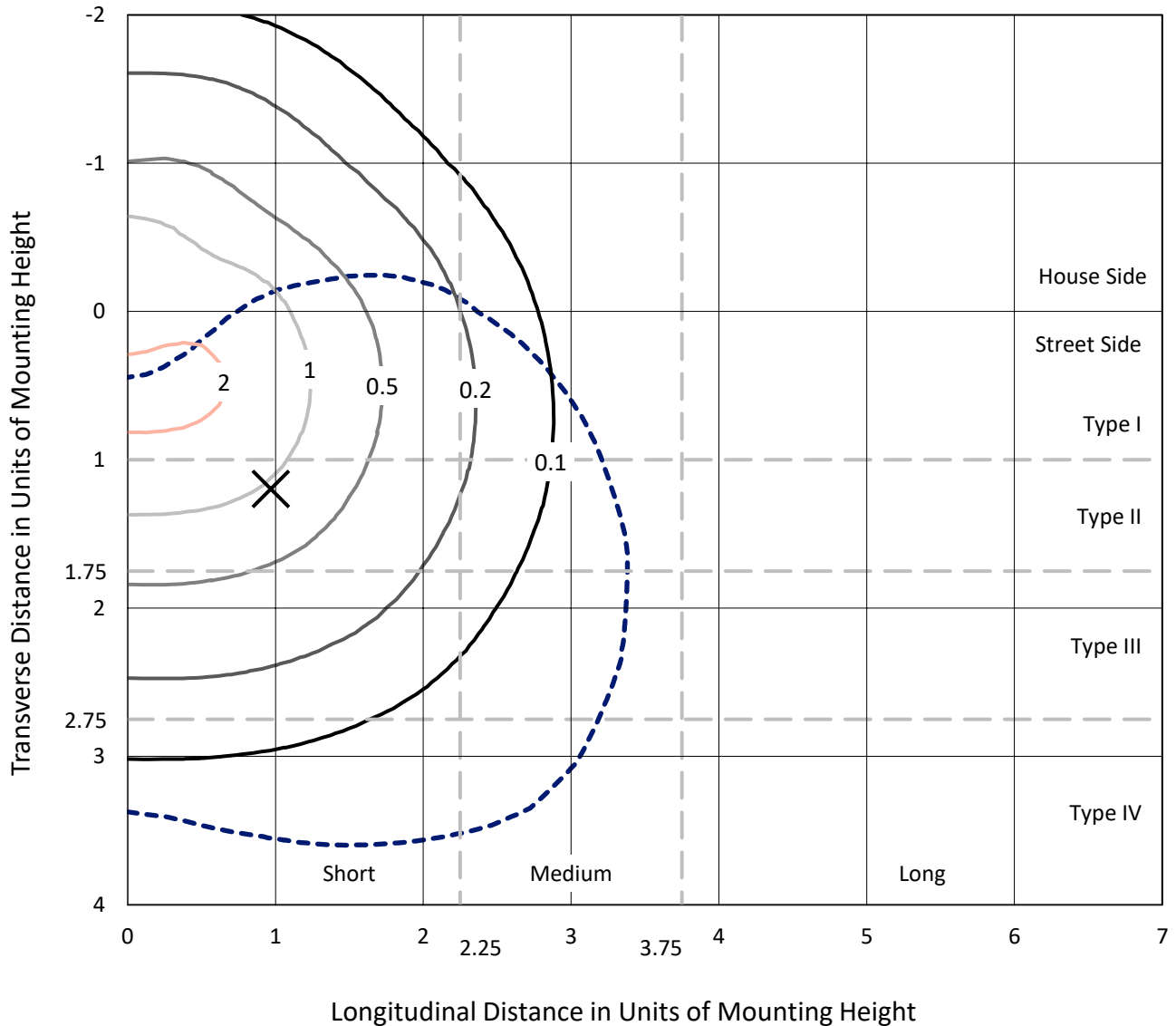
Lumens per Lamp: N/A
Luminaire Lumens: 3331.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.3
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

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Iso-Footcandle Lines of Horizontal Illumination

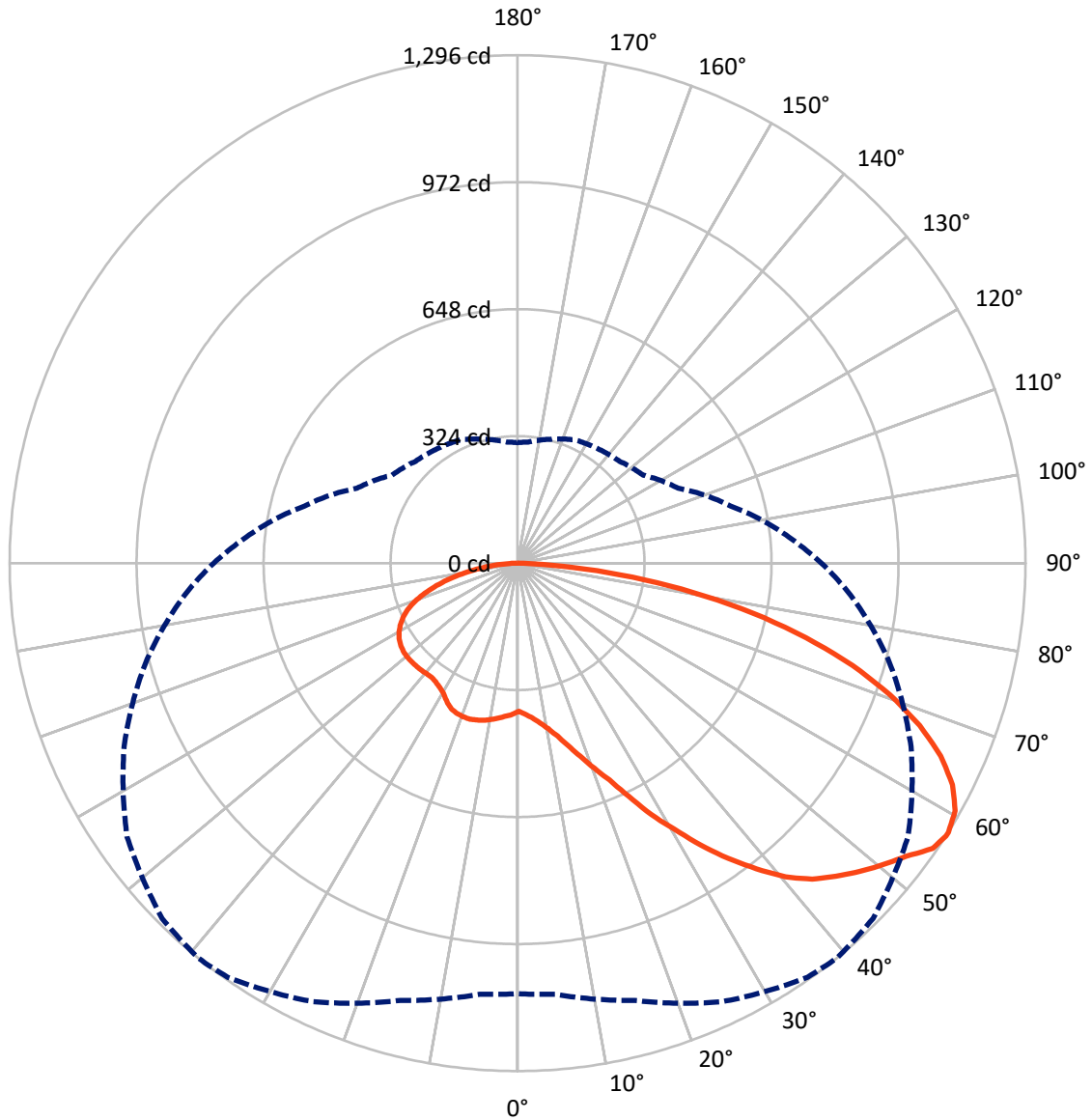
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1022.4 | 0.0 | 1022.4 |
| | % Fixture | 30.7 | 0.0 | 30.7 |
| Street Side | Lumens | 2309.6 | 0.0 | 2309.6 |
| | % Fixture | 69.3 | 0.0 | 69.3 |
| Total | Lumens | 3331.9 | 0.0 | 3331.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.3 | 1.1 |
| 10°-20° | 127.6 | 3.8 |
| 20°-30° | 246.5 | 7.4 |
| 30°-40° | 398.6 | 12.0 |
| 40°-50° | 560.1 | 16.8 |
| 50°-60° | 691.9 | 20.8 |
| 60°-70° | 687.7 | 20.6 |
| 70°-80° | 465.3 | 14.0 |
| 80°-90° | 116.1 | 3.5 |
| 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° | 3331.9 | 100.0 |
| 0°-180° | 3331.9 | 100.0 |



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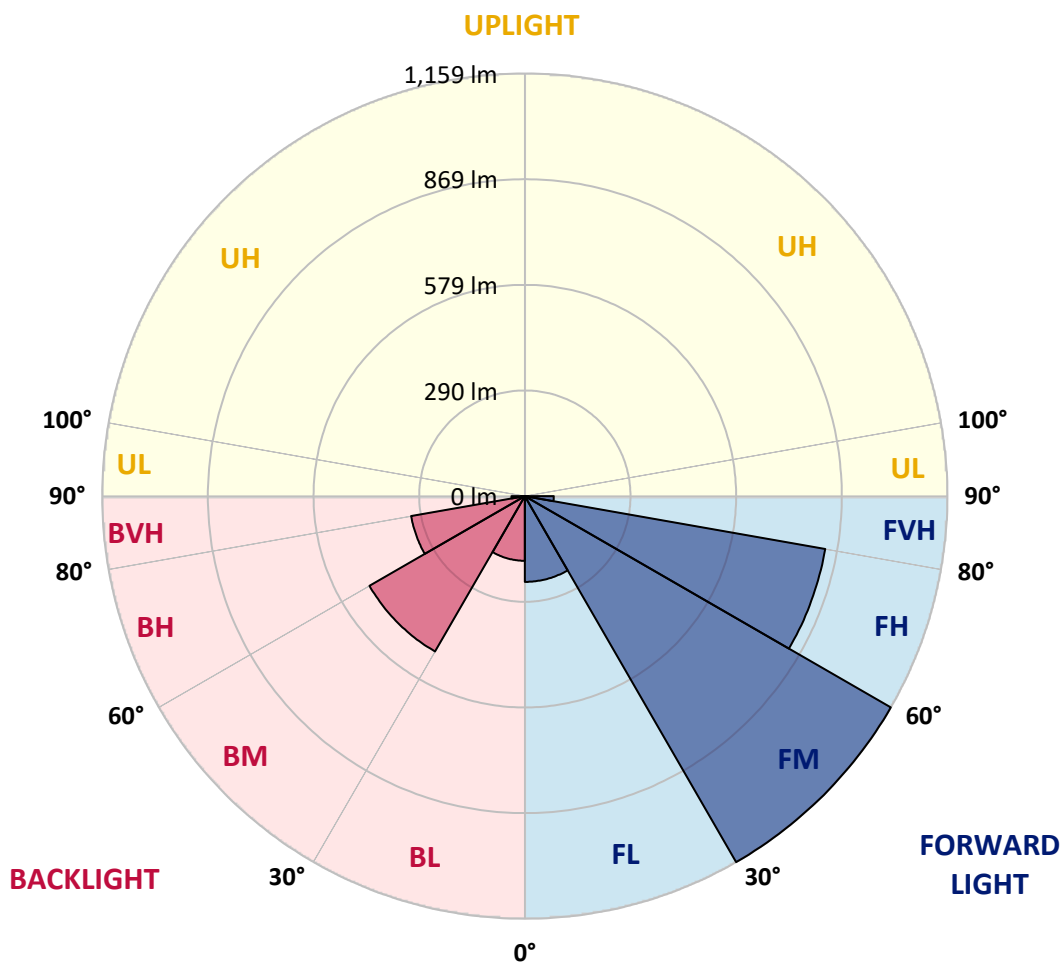
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 235.1 | 7.1 | | | |
| FM (30°-60°) | 1158.7 | 34.8 | | | |
| FH (60°-80°) | 836.3 | 25.1 | | | G1/1800 |
| FVH (80°-90°) | 79.5 | 2.4 | | | G1/100 |
| BL (0°-30°) | 177.2 | 5.3 | B1/500 | | |
| BM (30°-60°) | 491.9 | 14.8 | B1/1000 | | |
| BH (60°-80°) | 316.6 | 9.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.7 | 1.1 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 |
| 2.5° | 389.1 | 388.5 | 388.0 | 388.0 | 387.0 | 386.0 | 385.5 | 384.5 | 385.0 | 386.0 | 386.5 |
| 5° | 400.3 | 399.3 | 399.3 | 398.2 | 396.7 | 396.7 | 395.2 | 393.1 | 392.6 | 392.1 | 392.1 |
| 7.5° | 417.6 | 416.1 | 416.6 | 415.1 | 413.6 | 411.5 | 409.0 | 406.4 | 405.4 | 401.8 | 398.8 |
| 10° | 437.6 | 437.1 | 435.5 | 433.0 | 431.4 | 429.4 | 426.8 | 422.2 | 418.7 | 414.6 | 412.0 |
| 12.5° | 461.0 | 460.0 | 460.5 | 458.5 | 455.9 | 452.4 | 448.3 | 443.7 | 437.1 | 429.4 | 424.3 |
| 15° | 491.7 | 489.6 | 489.6 | 489.1 | 484.0 | 483.0 | 478.9 | 468.7 | 459.5 | 449.3 | 437.6 |
| 17.5° | 529.0 | 528.4 | 526.4 | 524.4 | 521.3 | 517.7 | 513.6 | 502.4 | 488.6 | 472.8 | 457.0 |
| 20° | 568.8 | 567.8 | 569.3 | 566.2 | 560.1 | 558.6 | 551.9 | 539.2 | 522.3 | 503.9 | 479.9 |
| 22.5° | 612.2 | 613.2 | 613.2 | 612.2 | 607.1 | 600.9 | 595.3 | 578.5 | 559.1 | 536.6 | 508.5 |
| 25° | 664.8 | 665.3 | 668.3 | 671.4 | 668.3 | 658.6 | 651.0 | 624.9 | 598.9 | 570.3 | 537.1 |
| 27.5° | 724.0 | 720.4 | 729.1 | 734.7 | 729.1 | 726.5 | 709.7 | 681.1 | 645.4 | 609.6 | 568.3 |
| 30° | 781.2 | 781.2 | 788.3 | 796.5 | 792.9 | 786.8 | 773.0 | 736.2 | 695.4 | 650.0 | 599.9 |
| 32.5° | 834.3 | 840.4 | 843.5 | 862.4 | 860.3 | 857.3 | 841.4 | 792.9 | 741.9 | 690.3 | 630.6 |
| 35° | 897.1 | 895.0 | 907.8 | 919.5 | 928.7 | 924.6 | 912.9 | 863.9 | 797.0 | 732.7 | 664.3 |
| 37.5° | 944.6 | 948.6 | 959.9 | 980.8 | 987.4 | 989.5 | 974.7 | 924.1 | 848.1 | 778.1 | 701.5 |
| 40° | 980.8 | 983.9 | 1005.3 | 1031.9 | 1045.7 | 1052.8 | 1038.0 | 976.7 | 896.1 | 814.4 | 730.6 |
| 42.5° | 1009.9 | 1012.0 | 1034.4 | 1072.2 | 1095.2 | 1102.3 | 1089.1 | 1024.2 | 936.9 | 843.5 | 754.6 |
| 45° | 1029.3 | 1032.9 | 1059.4 | 1098.2 | 1134.0 | 1139.1 | 1132.5 | 1066.1 | 973.2 | 871.0 | 772.0 |
| 47.5° | 1046.2 | 1050.2 | 1079.9 | 1128.9 | 1168.7 | 1175.3 | 1169.2 | 1102.8 | 1007.9 | 896.1 | 786.8 |
| 50° | 1068.6 | 1073.2 | 1102.8 | 1157.5 | 1201.4 | 1209.0 | 1207.0 | 1141.6 | 1040.5 | 924.1 | 802.1 |
| 52.5° | 1090.1 | 1093.6 | 1128.9 | 1189.6 | 1237.1 | 1242.2 | 1240.7 | 1177.9 | 1073.7 | 954.3 | 821.5 |
| 55° | 1106.9 | 1111.0 | 1152.9 | 1227.9 | 1279.0 | 1284.6 | 1273.9 | 1206.0 | 1099.8 | 976.2 | 839.9 |
| 57° | 1098.2 | 1103.9 | 1154.9 | 1234.6 | 1289.7 | 1295.8 | 1282.0 | 1216.2 | 1107.4 | 982.3 | 846.5 |
| 57.5° | 1095.7 | 1099.8 | 1152.9 | 1234.1 | 1290.2 | 1295.8 | 1282.0 | 1215.7 | 1106.9 | 981.8 | 846.5 |
| 60° | 1058.4 | 1068.1 | 1127.9 | 1215.7 | 1275.4 | 1282.6 | 1269.3 | 1195.3 | 1094.2 | 967.5 | 832.7 |
| 62.5° | 1008.4 | 1021.7 | 1084.5 | 1172.3 | 1239.7 | 1244.8 | 1231.5 | 1161.0 | 1065.6 | 937.4 | 804.2 |
| 65° | 936.4 | 956.8 | 1022.7 | 1107.4 | 1180.4 | 1186.6 | 1173.3 | 1103.9 | 1018.1 | 891.5 | 761.3 |
| 67.5° | 865.9 | 878.2 | 948.6 | 1029.3 | 1097.2 | 1106.4 | 1095.2 | 1033.4 | 952.7 | 830.2 | 704.1 |
| 70° | 785.8 | 794.5 | 852.7 | 931.8 | 1000.2 | 1007.9 | 998.2 | 940.5 | 864.4 | 754.1 | 637.2 |
| 72.5° | 689.3 | 698.5 | 748.0 | 821.0 | 881.8 | 894.0 | 887.4 | 827.6 | 758.7 | 663.2 | 562.7 |
| 75° | 580.5 | 590.7 | 635.2 | 693.4 | 752.6 | 759.7 | 752.1 | 708.2 | 645.9 | 559.6 | 471.8 |
| 77.5° | 470.7 | 477.4 | 509.6 | 553.5 | 599.4 | 614.7 | 612.7 | 581.5 | 518.7 | 450.3 | 378.8 |
| 80° | 352.3 | 353.3 | 370.2 | 406.4 | 443.2 | 454.4 | 457.0 | 428.9 | 387.5 | 336.0 | 283.9 |
| 82.5° | 222.6 | 226.2 | 235.4 | 262.4 | 280.3 | 295.6 | 299.2 | 282.9 | 256.8 | 224.7 | 192.5 |
| 85° | 103.6 | 100.6 | 107.7 | 116.9 | 142.4 | 142.4 | 147.0 | 138.4 | 130.7 | 120.0 | 99.6 |
| 87.5° | 8.7 | 8.2 | 8.2 | 8.7 | 13.8 | 14.8 | 23.5 | 26.0 | 28.1 | 28.1 | 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 |



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 CATALOG NUMBER: CCP-VA-1-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 | 377.8 |
| 2.5° | 385.5 | 385.0 | 383.4 | 383.4 | 384.5 | 386.0 | 386.5 | 387.0 | 387.5 | 388.0 | 388.0 |
| 5° | 391.6 | 391.1 | 390.1 | 389.1 | 390.1 | 390.6 | 392.1 | 393.1 | 393.1 | 394.2 | 393.7 |
| 7.5° | 397.2 | 397.7 | 396.7 | 396.2 | 396.2 | 397.2 | 399.3 | 400.8 | 401.8 | 402.3 | 403.4 |
| 10° | 410.0 | 406.9 | 402.8 | 400.8 | 400.8 | 402.8 | 404.9 | 406.9 | 409.0 | 410.0 | 410.0 |
| 12.5° | 421.2 | 417.6 | 410.0 | 406.9 | 406.4 | 408.5 | 411.0 | 414.1 | 415.6 | 417.1 | 417.1 |
| 15° | 431.4 | 428.4 | 419.2 | 412.0 | 410.0 | 411.5 | 414.6 | 418.2 | 420.7 | 422.2 | 422.2 |
| 17.5° | 450.8 | 441.6 | 429.4 | 417.6 | 413.6 | 414.1 | 417.6 | 421.2 | 424.3 | 425.3 | 424.8 |
| 20° | 469.2 | 457.5 | 439.1 | 422.2 | 415.6 | 413.6 | 417.1 | 421.7 | 424.3 | 425.8 | 425.8 |
| 22.5° | 490.2 | 477.4 | 448.8 | 426.8 | 414.6 | 411.5 | 414.6 | 418.7 | 421.7 | 422.8 | 423.8 |
| 25° | 519.8 | 497.3 | 459.5 | 430.4 | 413.1 | 406.9 | 409.0 | 413.1 | 416.6 | 417.1 | 416.6 |
| 27.5° | 546.3 | 520.8 | 473.8 | 434.0 | 409.5 | 398.2 | 396.2 | 399.3 | 404.9 | 408.5 | 409.5 |
| 30° | 569.3 | 545.8 | 488.6 | 437.1 | 402.8 | 384.0 | 381.4 | 382.4 | 386.0 | 395.7 | 396.2 |
| 32.5° | 603.5 | 567.2 | 503.4 | 439.6 | 395.2 | 376.3 | 372.7 | 371.7 | 372.7 | 377.8 | 377.8 |
| 35° | 627.0 | 591.2 | 518.2 | 444.2 | 389.6 | 370.2 | 366.6 | 365.1 | 364.0 | 358.9 | 357.4 |
| 37.5° | 657.6 | 617.8 | 532.5 | 448.3 | 387.0 | 367.6 | 362.5 | 363.5 | 358.4 | 344.1 | 340.0 |
| 40° | 691.3 | 641.8 | 546.8 | 452.4 | 388.0 | 368.1 | 363.5 | 363.0 | 354.3 | 334.4 | 330.3 |
| 42.5° | 707.7 | 662.2 | 561.6 | 458.0 | 392.1 | 369.7 | 365.6 | 364.0 | 353.3 | 330.9 | 325.2 |
| 45° | 723.5 | 677.0 | 572.4 | 462.6 | 396.2 | 371.7 | 366.6 | 365.1 | 352.8 | 327.8 | 323.7 |
| 47.5° | 737.8 | 686.2 | 577.5 | 465.1 | 399.3 | 373.2 | 367.1 | 364.5 | 350.3 | 326.3 | 322.2 |
| 50° | 744.4 | 691.3 | 577.5 | 465.1 | 400.3 | 374.8 | 366.1 | 362.5 | 346.2 | 323.7 | 320.1 |
| 52.5° | 754.6 | 694.4 | 572.9 | 462.1 | 398.8 | 374.8 | 364.0 | 358.4 | 341.1 | 320.1 | 317.1 |
| 55° | 769.9 | 700.0 | 566.7 | 457.5 | 395.2 | 371.7 | 360.5 | 352.8 | 333.9 | 315.0 | 312.5 |
| 57° | 775.0 | 702.0 | 562.7 | 451.9 | 391.1 | 367.6 | 356.4 | 346.7 | 327.3 | 309.9 | 307.4 |
| 57.5° | 774.0 | 701.0 | 561.1 | 450.3 | 389.6 | 366.1 | 355.4 | 345.1 | 325.7 | 308.9 | 306.3 |
| 60° | 760.2 | 691.3 | 551.4 | 440.6 | 381.4 | 357.9 | 346.2 | 334.9 | 315.0 | 300.2 | 298.2 |
| 62.5° | 737.8 | 669.4 | 534.1 | 427.9 | 370.2 | 346.7 | 334.4 | 321.7 | 301.7 | 289.0 | 288.0 |
| 65° | 699.5 | 632.6 | 509.0 | 409.5 | 355.9 | 331.9 | 318.6 | 304.8 | 287.5 | 276.2 | 273.2 |
| 67.5° | 635.7 | 583.6 | 473.8 | 384.0 | 333.9 | 313.5 | 299.2 | 284.9 | 269.1 | 259.4 | 257.3 |
| 70° | 582.6 | 530.0 | 428.9 | 351.8 | 307.4 | 288.0 | 274.7 | 260.9 | 247.1 | 238.4 | 237.9 |
| 72.5° | 515.2 | 464.6 | 372.7 | 312.0 | 273.7 | 254.8 | 244.6 | 232.3 | 221.6 | 213.9 | 213.9 |
| 75° | 433.5 | 393.7 | 314.5 | 264.5 | 233.3 | 219.5 | 210.9 | 201.2 | 192.0 | 186.9 | 187.9 |
| 77.5° | 344.6 | 314.5 | 256.8 | 213.9 | 191.0 | 181.8 | 173.6 | 168.0 | 162.4 | 157.8 | 158.3 |
| 80° | 254.3 | 231.8 | 188.9 | 157.3 | 146.0 | 137.9 | 136.3 | 132.7 | 129.7 | 128.2 | 125.6 |
| 82.5° | 174.1 | 154.2 | 125.6 | 107.7 | 99.6 | 97.0 | 97.5 | 97.5 | 98.0 | 98.0 | 97.0 |
| 85° | 90.4 | 82.7 | 63.8 | 57.7 | 56.7 | 59.2 | 62.3 | 64.3 | 63.8 | 63.8 | 62.3 |
| 87.5° | 26.0 | 23.5 | 20.4 | 18.4 | 19.4 | 20.9 | 18.4 | 17.9 | 17.4 | 16.8 | 16.8 |
| 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)