

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: P401734

Luminaire Tested: **ENV-SA1E-760-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1E-760-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6735 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.2
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

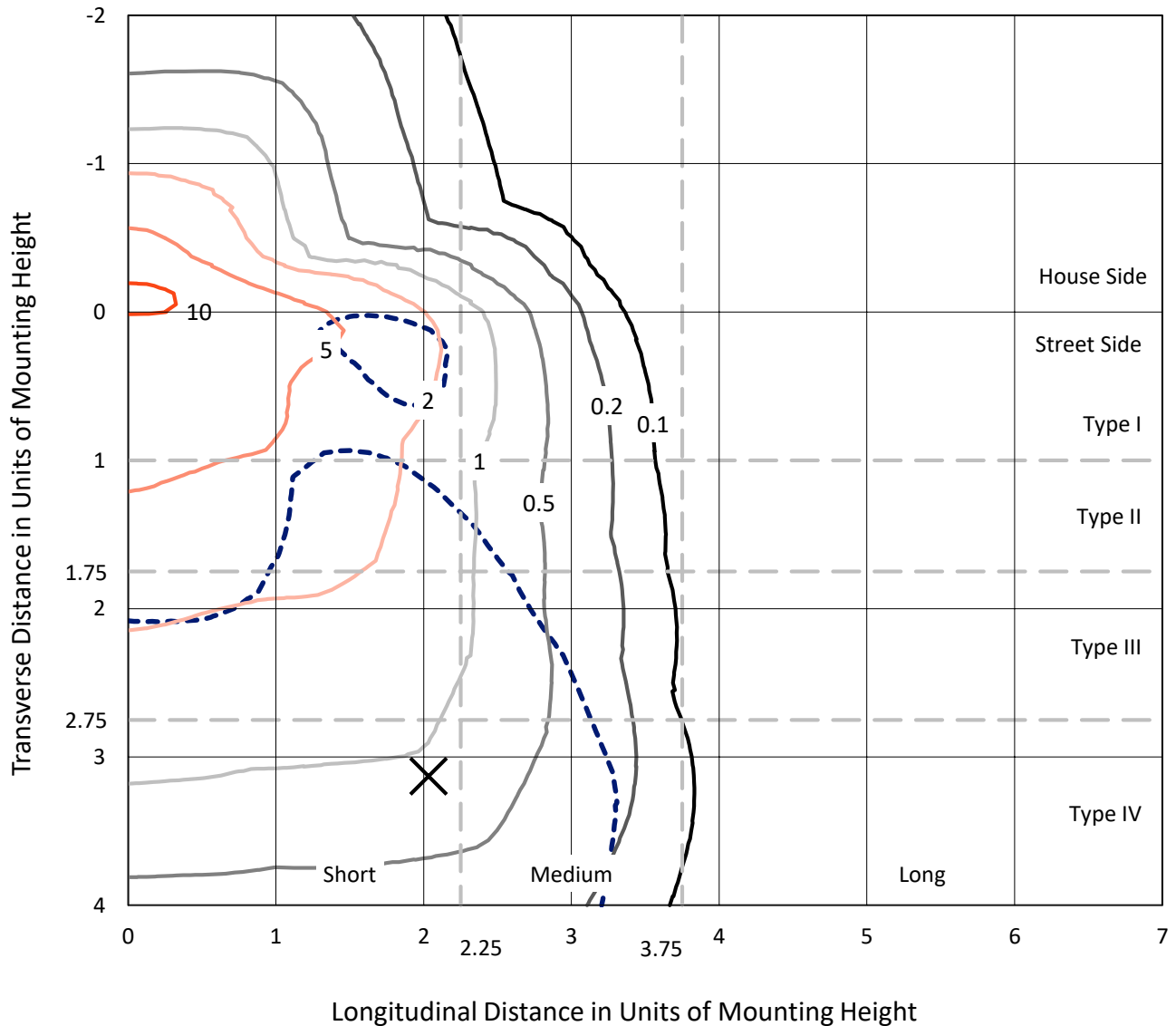


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Iso-Footcandle Lines of Horizontal Illumination

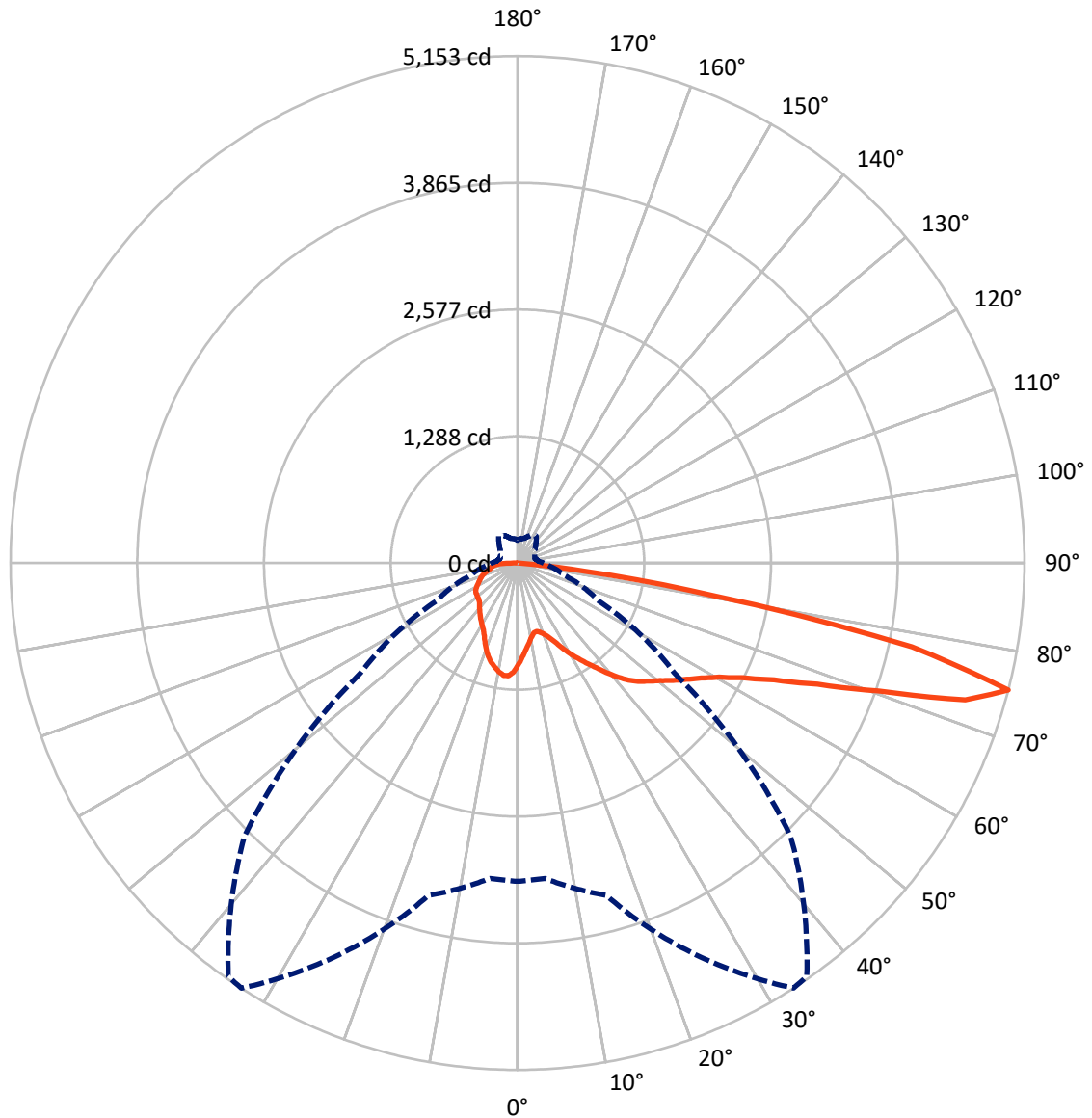
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1636.1 | 0.0 | 1636.1 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 5098.9 | 0.0 | 5098.9 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 6735.0 | 0.0 | 6735.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.4 | 1.4 |
| 10°-20° | 271.2 | 4.0 |
| 20°-30° | 450.9 | 6.7 |
| 30°-40° | 672.6 | 10.0 |
| 40°-50° | 939.6 | 14.0 |
| 50°-60° | 1254.3 | 18.6 |
| 60°-70° | 1555.2 | 23.1 |
| 70°-80° | 1344.6 | 20.0 |
| 80°-90° | 150.3 | 2.2 |
| 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° | 6735.0 | 100.0 |
| 0°-180° | 6735.0 | 100.0 |



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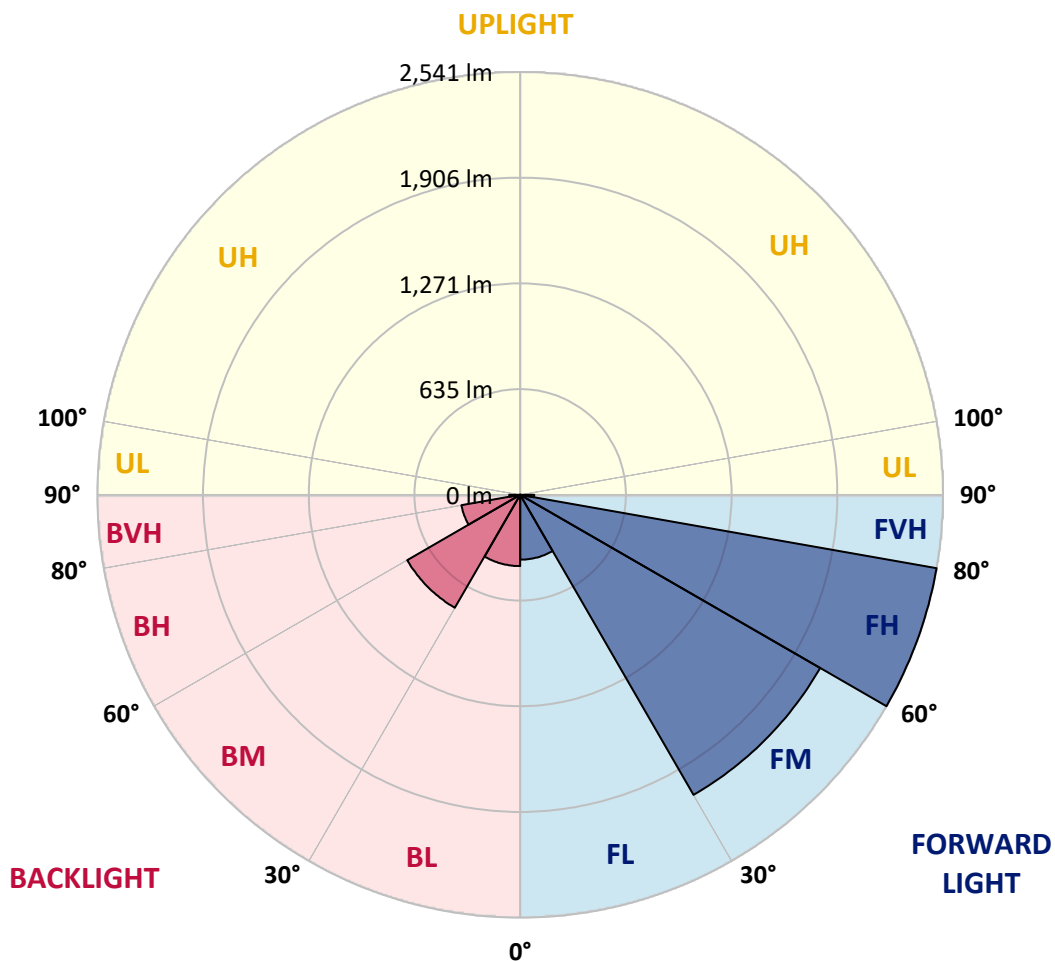
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 389.9 | 5.8 | | | |
| FM | (30°-60°) | 2082.5 | 30.9 | | | |
| FH | (60°-80°) | 2541.5 | 37.7 | | | G2/5000 |
| FVH | (80°-90°) | 84.9 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 428.5 | 6.4 | B1/500 | | |
| BM | (30°-60°) | 784.0 | 11.6 | B1/1000 | | |
| BH | (60°-80°) | 358.3 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 65.4 | 1.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 |
| 2.5° | 936 | 938 | 944 | 951 | 955 | 955 | 966 | 979 | 995 | 1009 | 1024 |
| 5° | 858 | 861 | 866 | 875 | 886 | 888 | 910 | 933 | 962 | 993 | 1023 |
| 7.5° | 781 | 787 | 797 | 809 | 826 | 830 | 861 | 892 | 932 | 979 | 1028 |
| 10° | 722 | 726 | 731 | 748 | 769 | 776 | 817 | 856 | 911 | 969 | 1034 |
| 12.5° | 706 | 706 | 706 | 714 | 731 | 737 | 780 | 830 | 892 | 962 | 1043 |
| 15° | 729 | 728 | 717 | 711 | 721 | 726 | 763 | 812 | 882 | 964 | 1060 |
| 17.5° | 781 | 778 | 752 | 732 | 739 | 742 | 766 | 808 | 879 | 972 | 1085 |
| 20° | 849 | 842 | 802 | 772 | 771 | 773 | 791 | 820 | 884 | 986 | 1112 |
| 22.5° | 939 | 935 | 876 | 830 | 822 | 822 | 830 | 848 | 897 | 1002 | 1149 |
| 25° | 1055 | 1044 | 973 | 911 | 893 | 888 | 887 | 887 | 920 | 1026 | 1195 |
| 27.5° | 1174 | 1161 | 1089 | 1005 | 981 | 972 | 956 | 944 | 950 | 1052 | 1250 |
| 30° | 1281 | 1263 | 1202 | 1115 | 1079 | 1065 | 1036 | 1011 | 995 | 1088 | 1323 |
| 32.5° | 1340 | 1333 | 1291 | 1212 | 1171 | 1165 | 1117 | 1084 | 1056 | 1135 | 1421 |
| 35° | 1419 | 1410 | 1383 | 1318 | 1269 | 1254 | 1218 | 1179 | 1134 | 1198 | 1545 |
| 37.5° | 1492 | 1487 | 1477 | 1432 | 1380 | 1365 | 1332 | 1291 | 1230 | 1291 | 1684 |
| 40° | 1566 | 1560 | 1556 | 1540 | 1503 | 1493 | 1477 | 1429 | 1347 | 1393 | 1821 |
| 42.5° | 1674 | 1661 | 1619 | 1618 | 1621 | 1629 | 1630 | 1577 | 1475 | 1520 | 1941 |
| 45° | 1815 | 1779 | 1685 | 1682 | 1717 | 1738 | 1789 | 1744 | 1608 | 1650 | 2075 |
| 47.5° | 1887 | 1850 | 1753 | 1747 | 1793 | 1824 | 1950 | 1906 | 1746 | 1796 | 2214 |
| 50° | 1922 | 1898 | 1813 | 1832 | 1879 | 1909 | 2103 | 2068 | 1889 | 1954 | 2389 |
| 52.5° | 1971 | 1931 | 1871 | 1911 | 1981 | 2012 | 2240 | 2234 | 2010 | 2126 | 2581 |
| 55° | 1954 | 1933 | 1944 | 1998 | 2086 | 2132 | 2378 | 2378 | 2133 | 2310 | 2771 |
| 57.5° | 1968 | 1954 | 2045 | 2093 | 2204 | 2270 | 2544 | 2500 | 2237 | 2464 | 2899 |
| 60° | 2087 | 2047 | 2118 | 2213 | 2356 | 2420 | 2734 | 2628 | 2322 | 2597 | 2922 |
| 62.5° | 2297 | 2265 | 2272 | 2381 | 2566 | 2640 | 2922 | 2741 | 2379 | 2653 | 2836 |
| 65° | 2645 | 2630 | 2544 | 2610 | 2865 | 2932 | 3157 | 2839 | 2363 | 2611 | 2609 |
| 67.5° | 3113 | 3053 | 2937 | 2996 | 3290 | 3358 | 3440 | 2876 | 2259 | 2360 | 2097 |
| 70° | 3501 | 3451 | 3398 | 3553 | 3891 | 3928 | 3735 | 2841 | 2006 | 1847 | 1406 |
| 72.5° | 3748 | 3712 | 3761 | 4217 | 4758 | 4688 | 4026 | 2596 | 1565 | 1131 | 703 |
| 75° | 3235 | 3218 | 3498 | 4423 | 5153 | 5127 | 3925 | 1943 | 908 | 498 | 320 |
| 77.5° | 1627 | 1812 | 2107 | 3138 | 4100 | 4105 | 2860 | 934 | 382 | 279 | 220 |
| 80° | 458 | 464 | 703 | 1294 | 2047 | 2181 | 1082 | 317 | 218 | 208 | 164 |
| 82.5° | 109 | 101 | 180 | 383 | 687 | 715 | 325 | 114 | 122 | 130 | 101 |
| 85° | 1 | 1 | 1 | 1 | 1 | 2 | 12 | 12 | 29 | 37 | 29 |
| 87.5° | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 | 1032 |
| 2.5° | 1031 | 1041 | 1057 | 1071 | 1083 | 1092 | 1106 | 1108 | 1112 | 1114 | 1116 |
| 5° | 1040 | 1059 | 1089 | 1115 | 1133 | 1138 | 1150 | 1149 | 1150 | 1150 | 1149 |
| 7.5° | 1052 | 1078 | 1120 | 1149 | 1159 | 1156 | 1153 | 1142 | 1133 | 1129 | 1124 |
| 10° | 1067 | 1097 | 1146 | 1167 | 1162 | 1146 | 1127 | 1107 | 1091 | 1083 | 1081 |
| 12.5° | 1082 | 1121 | 1167 | 1173 | 1153 | 1124 | 1092 | 1070 | 1049 | 1038 | 1038 |
| 15° | 1107 | 1150 | 1184 | 1172 | 1136 | 1099 | 1055 | 1025 | 1001 | 986 | 985 |
| 17.5° | 1137 | 1183 | 1202 | 1167 | 1115 | 1063 | 1010 | 971 | 940 | 925 | 916 |
| 20° | 1174 | 1217 | 1211 | 1151 | 1084 | 1020 | 954 | 907 | 875 | 859 | 856 |
| 22.5° | 1216 | 1252 | 1214 | 1125 | 1042 | 960 | 888 | 841 | 820 | 808 | 809 |
| 25° | 1267 | 1295 | 1215 | 1094 | 982 | 881 | 818 | 796 | 793 | 788 | 790 |
| 27.5° | 1331 | 1340 | 1211 | 1052 | 905 | 798 | 761 | 770 | 778 | 775 | 777 |
| 30° | 1407 | 1394 | 1202 | 991 | 810 | 722 | 724 | 744 | 755 | 752 | 753 |
| 32.5° | 1496 | 1448 | 1185 | 917 | 720 | 676 | 692 | 712 | 723 | 723 | 724 |
| 35° | 1596 | 1513 | 1152 | 821 | 657 | 648 | 662 | 678 | 685 | 681 | 684 |
| 37.5° | 1701 | 1569 | 1099 | 714 | 610 | 626 | 634 | 638 | 637 | 631 | 628 |
| 40° | 1799 | 1613 | 1004 | 608 | 571 | 603 | 607 | 596 | 583 | 572 | 565 |
| 42.5° | 1874 | 1636 | 872 | 531 | 534 | 577 | 580 | 558 | 533 | 516 | 512 |
| 45° | 1951 | 1644 | 741 | 469 | 494 | 551 | 559 | 529 | 495 | 475 | 472 |
| 47.5° | 2039 | 1664 | 612 | 426 | 460 | 533 | 546 | 509 | 471 | 441 | 436 |
| 50° | 2157 | 1702 | 515 | 393 | 436 | 524 | 542 | 493 | 445 | 412 | 408 |
| 52.5° | 2307 | 1758 | 425 | 367 | 417 | 510 | 536 | 477 | 426 | 386 | 380 |
| 55° | 2436 | 1779 | 367 | 345 | 397 | 493 | 531 | 471 | 405 | 360 | 353 |
| 57.5° | 2495 | 1719 | 326 | 323 | 376 | 472 | 521 | 451 | 382 | 347 | 341 |
| 60° | 2468 | 1570 | 295 | 303 | 352 | 445 | 495 | 431 | 366 | 337 | 331 |
| 62.5° | 2348 | 1398 | 272 | 284 | 325 | 411 | 465 | 413 | 352 | 326 | 318 |
| 65° | 2137 | 1209 | 255 | 267 | 301 | 378 | 441 | 392 | 336 | 310 | 303 |
| 67.5° | 1744 | 962 | 237 | 250 | 281 | 351 | 419 | 375 | 318 | 301 | 295 |
| 70° | 1154 | 647 | 220 | 233 | 261 | 325 | 396 | 357 | 301 | 290 | 282 |
| 72.5° | 530 | 348 | 202 | 215 | 238 | 296 | 367 | 330 | 278 | 271 | 259 |
| 75° | 262 | 214 | 180 | 192 | 210 | 261 | 333 | 307 | 257 | 245 | 231 |
| 77.5° | 191 | 160 | 155 | 167 | 182 | 231 | 297 | 283 | 236 | 219 | 211 |
| 80° | 142 | 124 | 130 | 142 | 156 | 209 | 278 | 265 | 218 | 201 | 195 |
| 82.5° | 87 | 83 | 100 | 114 | 131 | 192 | 265 | 242 | 196 | 180 | 173 |
| 85° | 25 | 30 | 51 | 74 | 93 | 155 | 247 | 212 | 165 | 138 | 133 |
| 87.5° | 0 | 3 | 16 | 34 | 55 | 103 | 190 | 166 | 126 | 102 | 98 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)