

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: P147150

Luminaire Tested: **VXM-E06-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P147150
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-E06-LED-E1-5MQ
Description: VISION SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19342.6 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

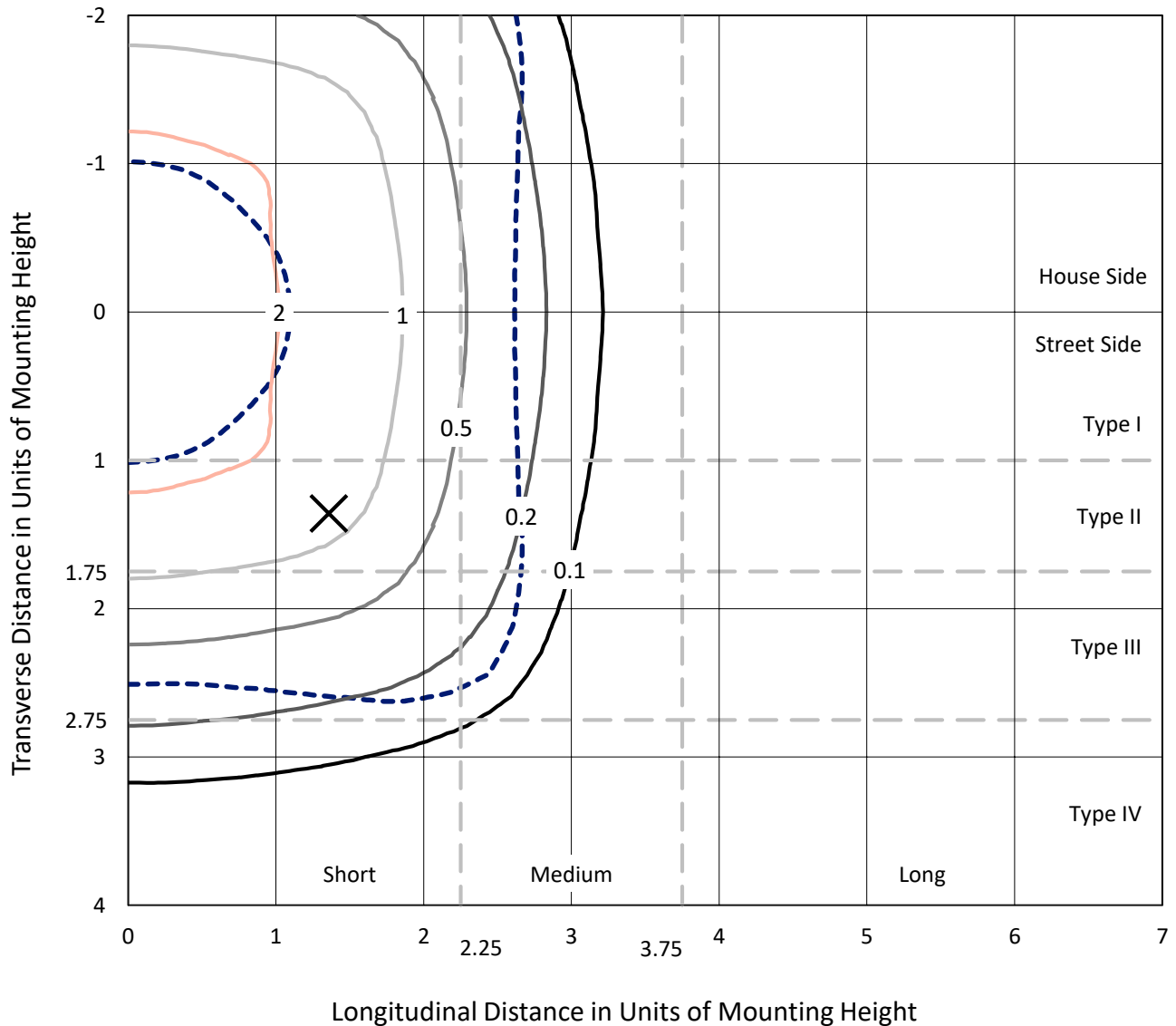
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

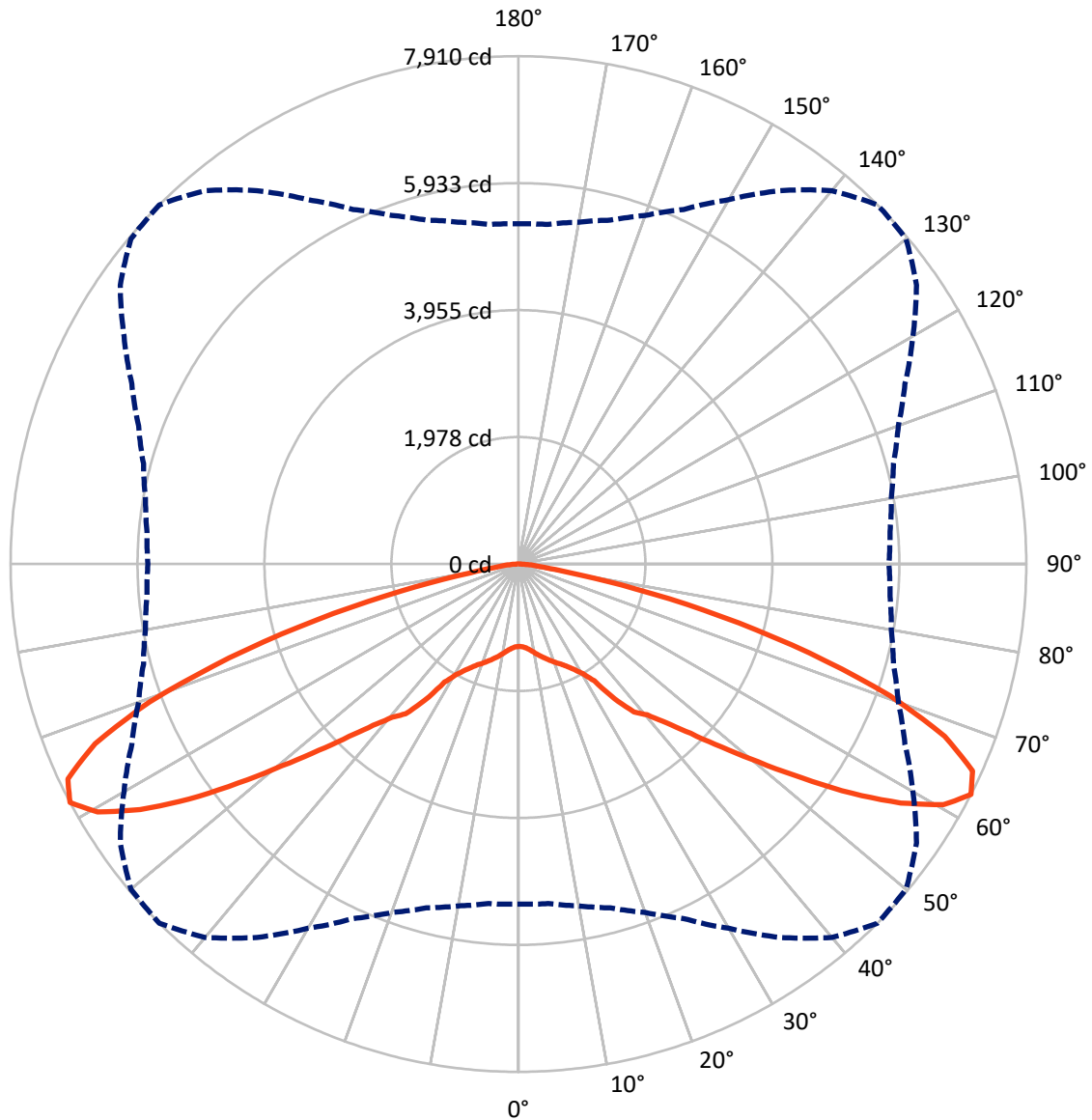
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9671.3 | 0.0 | 9671.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9671.3 | 0.0 | 9671.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19342.6 | 0.0 | 19342.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 128.7 | 0.7 |
| 10°-20° | 435.0 | 2.2 |
| 20°-30° | 841.0 | 4.3 |
| 30°-40° | 1628.3 | 8.4 |
| 40°-50° | 2940.1 | 15.2 |
| 50°-60° | 5112.4 | 26.4 |
| 60°-70° | 5803.9 | 30.0 |
| 70°-80° | 2250.2 | 11.6 |
| 80°-90° | 203.0 | 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° | 19342.6 | 100.0 |
| 0°-180° | 19342.6 | 100.0 |

Coefficient of Utilization



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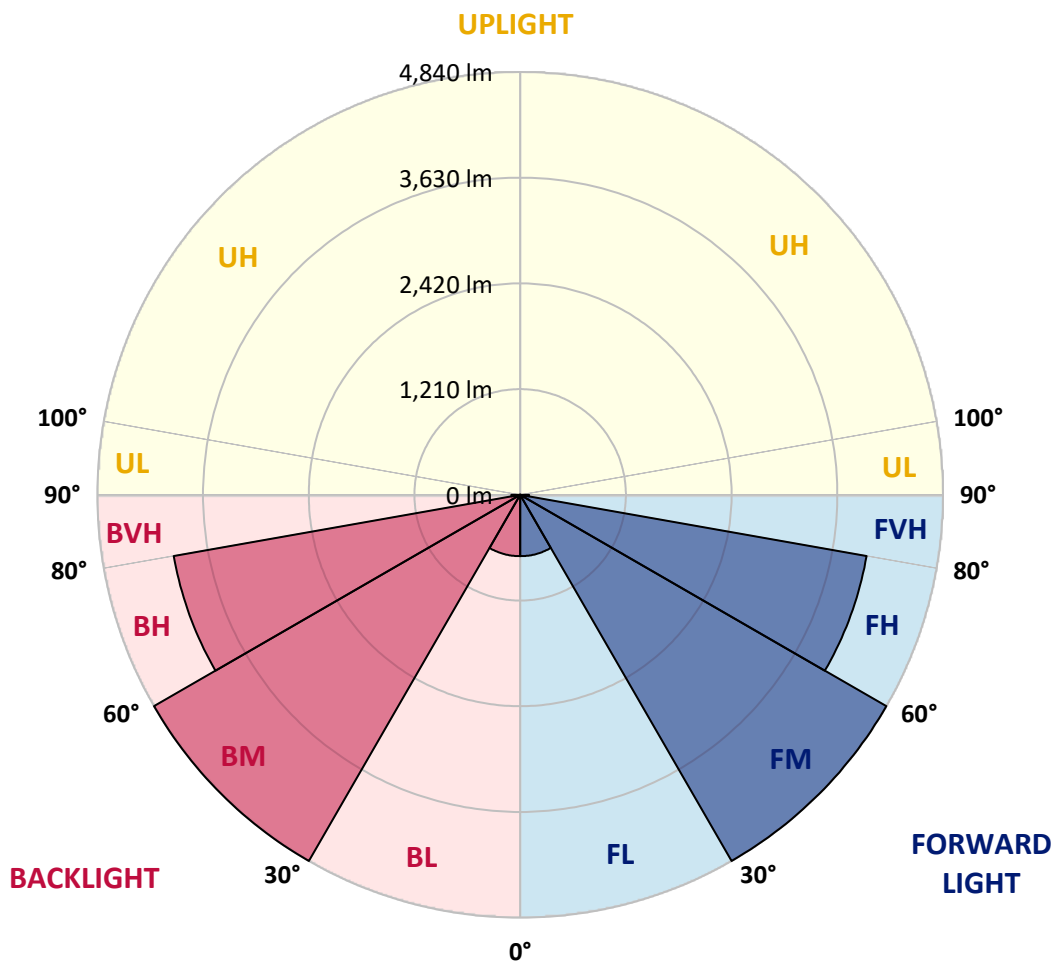
CATALOG NUMBER: VXM-E06-LED-E1-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 702.3 | 3.6 | | | |
| FM | (30°-60°) | 4840.4 | 25.0 | | | |
| FH | (60°-80°) | 4027.0 | 20.8 | | | G2/5000 |
| FVH | (80°-90°) | 101.5 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 702.3 | 3.6 | B2/1000 | | |
| BM | (30°-60°) | 4840.4 | 25.0 | B3/5000 | | |
| BH | (60°-80°) | 4027.0 | 20.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 101.5 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 |
| 2.5° | 1292 | 1296 | 1295 | 1293 | 1293 | 1293 | 1292 | 1289 | 1288 | 1290 | 1292 |
| 5° | 1322 | 1322 | 1322 | 1322 | 1320 | 1320 | 1318 | 1316 | 1317 | 1315 | 1314 |
| 7.5° | 1368 | 1365 | 1365 | 1364 | 1364 | 1362 | 1359 | 1355 | 1356 | 1355 | 1354 |
| 10° | 1422 | 1423 | 1420 | 1423 | 1418 | 1417 | 1413 | 1411 | 1410 | 1407 | 1407 |
| 12.5° | 1487 | 1484 | 1484 | 1482 | 1480 | 1478 | 1472 | 1471 | 1467 | 1465 | 1462 |
| 15° | 1548 | 1547 | 1543 | 1539 | 1538 | 1536 | 1529 | 1525 | 1524 | 1519 | 1515 |
| 17.5° | 1609 | 1607 | 1602 | 1600 | 1596 | 1593 | 1587 | 1581 | 1578 | 1576 | 1571 |
| 20° | 1674 | 1672 | 1667 | 1663 | 1658 | 1654 | 1645 | 1640 | 1637 | 1634 | 1630 |
| 22.5° | 1755 | 1751 | 1743 | 1736 | 1725 | 1721 | 1709 | 1702 | 1697 | 1693 | 1691 |
| 25° | 1843 | 1844 | 1833 | 1824 | 1811 | 1800 | 1785 | 1777 | 1772 | 1768 | 1767 |
| 27.5° | 1953 | 1954 | 1944 | 1931 | 1911 | 1899 | 1879 | 1869 | 1866 | 1862 | 1861 |
| 30° | 2127 | 2118 | 2101 | 2080 | 2062 | 2036 | 2007 | 1997 | 1987 | 1984 | 1984 |
| 32.5° | 2447 | 2442 | 2428 | 2376 | 2352 | 2298 | 2247 | 2218 | 2185 | 2169 | 2159 |
| 35° | 2671 | 2669 | 2658 | 2640 | 2625 | 2614 | 2584 | 2579 | 2573 | 2573 | 2581 |
| 37.5° | 2836 | 2824 | 2822 | 2825 | 2821 | 2823 | 2847 | 2880 | 2908 | 2922 | 2920 |
| 40° | 3080 | 3063 | 3073 | 3066 | 3057 | 3055 | 3063 | 3076 | 3089 | 3089 | 3086 |
| 42.5° | 3399 | 3407 | 3411 | 3382 | 3363 | 3358 | 3377 | 3373 | 3386 | 3381 | 3368 |
| 45° | 3873 | 3868 | 3861 | 3826 | 3796 | 3772 | 3777 | 3770 | 3771 | 3763 | 3753 |
| 47.5° | 4351 | 4368 | 4339 | 4322 | 4288 | 4271 | 4285 | 4273 | 4296 | 4254 | 4234 |
| 50° | 4815 | 4827 | 4817 | 4793 | 4793 | 4817 | 4834 | 4856 | 4888 | 4840 | 4768 |
| 52.5° | 5195 | 5205 | 5220 | 5240 | 5289 | 5340 | 5412 | 5489 | 5550 | 5541 | 5459 |
| 55° | 5427 | 5439 | 5464 | 5533 | 5621 | 5755 | 5918 | 6097 | 6237 | 6305 | 6245 |
| 57.5° | 5505 | 5514 | 5582 | 5665 | 5802 | 6001 | 6274 | 6583 | 6852 | 7023 | 6996 |
| 60° | 5487 | 5487 | 5556 | 5670 | 5862 | 6126 | 6512 | 6940 | 7352 | 7608 | 7570 |
| 62.5° | 5298 | 5308 | 5407 | 5544 | 5776 | 6092 | 6552 | 7099 | 7592 | 7910 | 7879 |
| 65° | 4884 | 4891 | 4998 | 5161 | 5420 | 5794 | 6297 | 6903 | 7468 | 7774 | 7716 |
| 67.5° | 4215 | 4222 | 4309 | 4493 | 4767 | 5158 | 5701 | 6368 | 6921 | 7163 | 6989 |
| 70° | 3353 | 3373 | 3429 | 3624 | 3832 | 4215 | 4715 | 5382 | 5904 | 6133 | 5941 |
| 72.5° | 2285 | 2336 | 2404 | 2577 | 2776 | 3094 | 3492 | 4054 | 4473 | 4738 | 4567 |
| 75° | 1287 | 1359 | 1380 | 1511 | 1675 | 1926 | 2217 | 2620 | 3043 | 3258 | 3052 |
| 77.5° | 556 | 615 | 641 | 702 | 830 | 935 | 1112 | 1384 | 1711 | 1862 | 1615 |
| 80° | 274 | 288 | 299 | 318 | 354 | 388 | 472 | 591 | 725 | 759 | 604 |
| 82.5° | 212 | 222 | 241 | 256 | 265 | 274 | 282 | 298 | 311 | 318 | 300 |
| 85° | 149 | 162 | 183 | 200 | 210 | 217 | 224 | 229 | 217 | 198 | 208 |
| 87.5° | 39 | 51 | 71 | 77 | 87 | 92 | 90 | 93 | 84 | 61 | 68 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: VXM-E06-LED-E1-5MQ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|
| 0° | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 | 1284 |
| 2.5° | 1291 | 1290 | 1291 | 1291 | 1291 | 1290 | 1290 | 1290 |
| 5° | 1314 | 1314 | 1315 | 1313 | 1313 | 1314 | 1313 | 1312 |
| 7.5° | 1353 | 1352 | 1352 | 1351 | 1352 | 1351 | 1351 | 1350 |
| 10° | 1405 | 1403 | 1404 | 1401 | 1401 | 1400 | 1400 | 1400 |
| 12.5° | 1461 | 1458 | 1459 | 1456 | 1451 | 1452 | 1453 | 1452 |
| 15° | 1515 | 1512 | 1509 | 1507 | 1504 | 1505 | 1505 | 1504 |
| 17.5° | 1570 | 1564 | 1563 | 1560 | 1559 | 1559 | 1559 | 1560 |
| 20° | 1627 | 1623 | 1622 | 1619 | 1618 | 1621 | 1622 | 1620 |
| 22.5° | 1688 | 1686 | 1688 | 1686 | 1689 | 1691 | 1692 | 1690 |
| 25° | 1765 | 1763 | 1766 | 1773 | 1777 | 1779 | 1784 | 1782 |
| 27.5° | 1864 | 1862 | 1869 | 1879 | 1885 | 1895 | 1900 | 1902 |
| 30° | 1992 | 2001 | 2005 | 2025 | 2029 | 2045 | 2045 | 2052 |
| 32.5° | 2178 | 2195 | 2225 | 2256 | 2299 | 2330 | 2330 | 2346 |
| 35° | 2586 | 2593 | 2616 | 2621 | 2630 | 2640 | 2630 | 2638 |
| 37.5° | 2899 | 2868 | 2846 | 2815 | 2796 | 2796 | 2798 | 2796 |
| 40° | 3059 | 3047 | 3037 | 3011 | 3007 | 3006 | 3006 | 3010 |
| 42.5° | 3345 | 3316 | 3300 | 3278 | 3271 | 3269 | 3268 | 3270 |
| 45° | 3717 | 3670 | 3627 | 3605 | 3586 | 3568 | 3574 | 3574 |
| 47.5° | 4150 | 4077 | 4007 | 3969 | 3936 | 3921 | 3911 | 3908 |
| 50° | 4677 | 4575 | 4485 | 4414 | 4366 | 4365 | 4370 | 4338 |
| 52.5° | 5323 | 5162 | 5050 | 4954 | 4909 | 4904 | 4888 | 4870 |
| 55° | 6039 | 5848 | 5663 | 5560 | 5501 | 5469 | 5450 | 5420 |
| 57.5° | 6777 | 6520 | 6254 | 6089 | 5985 | 5913 | 5875 | 5858 |
| 60° | 7346 | 6995 | 6644 | 6379 | 6206 | 6099 | 6033 | 6006 |
| 62.5° | 7570 | 7094 | 6644 | 6296 | 6046 | 5898 | 5809 | 5770 |
| 65° | 7303 | 6739 | 6227 | 5843 | 5564 | 5399 | 5302 | 5260 |
| 67.5° | 6557 | 6059 | 5502 | 5120 | 4833 | 4670 | 4565 | 4534 |
| 70° | 5497 | 4988 | 4456 | 4115 | 3859 | 3726 | 3617 | 3604 |
| 72.5° | 4131 | 3692 | 3236 | 2954 | 2748 | 2528 | 2472 | 2500 |
| 75° | 2648 | 2237 | 1831 | 1577 | 1389 | 1179 | 1098 | 1118 |
| 77.5° | 1254 | 971 | 701 | 542 | 455 | 389 | 372 | 362 |
| 80° | 465 | 377 | 333 | 316 | 304 | 293 | 285 | 276 |
| 82.5° | 301 | 294 | 285 | 282 | 273 | 259 | 233 | 222 |
| 85° | 225 | 225 | 213 | 214 | 207 | 189 | 165 | 152 |
| 87.5° | 66 | 59 | 54 | 50 | 49 | 44 | 32 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)