

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: P401266

Luminaire Tested: **ENV-SA1C-727-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401266
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-SA1C-727-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612 lumens
Efficiency: N/A
Efficacy: 108.5 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 - G1

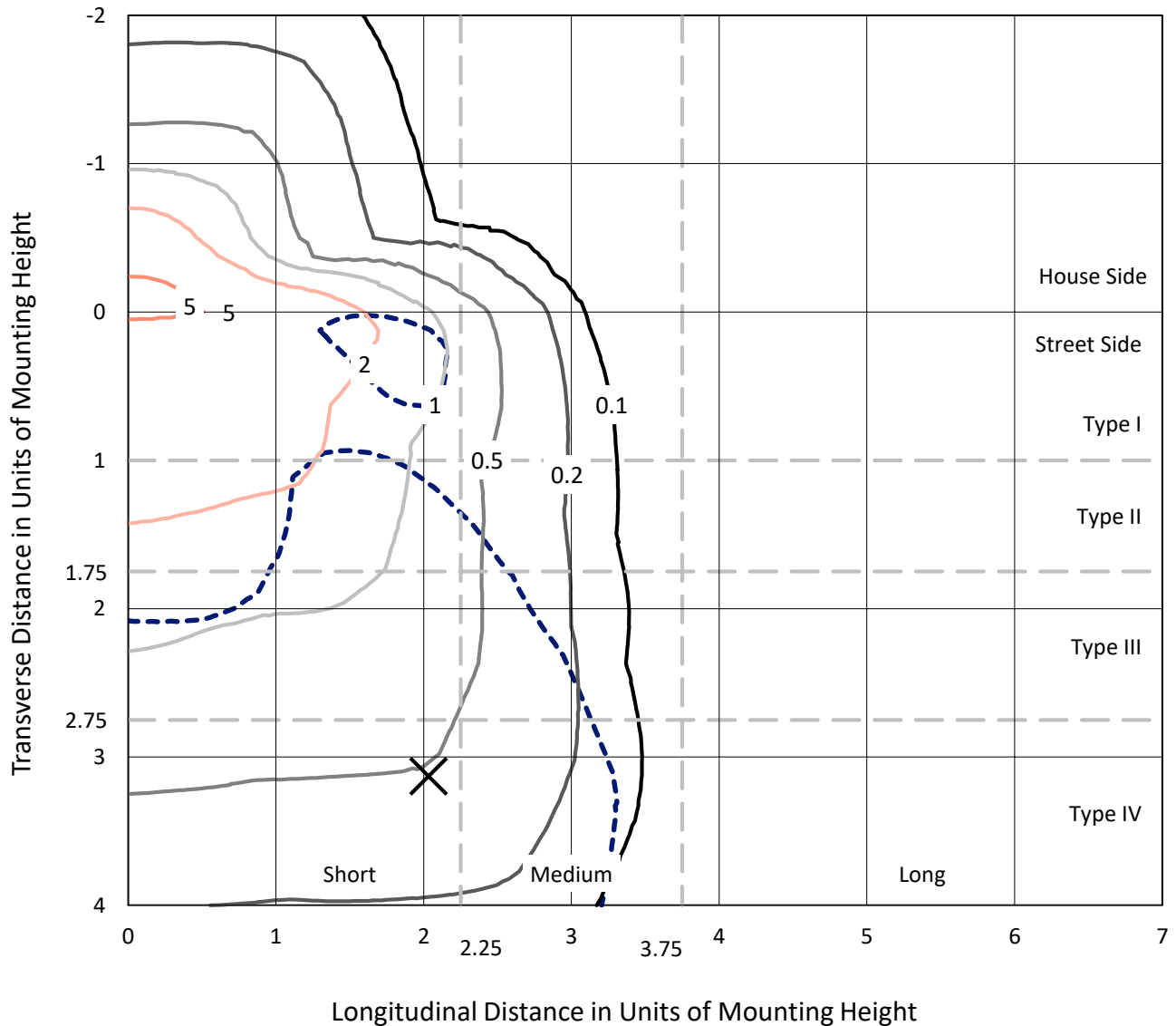
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

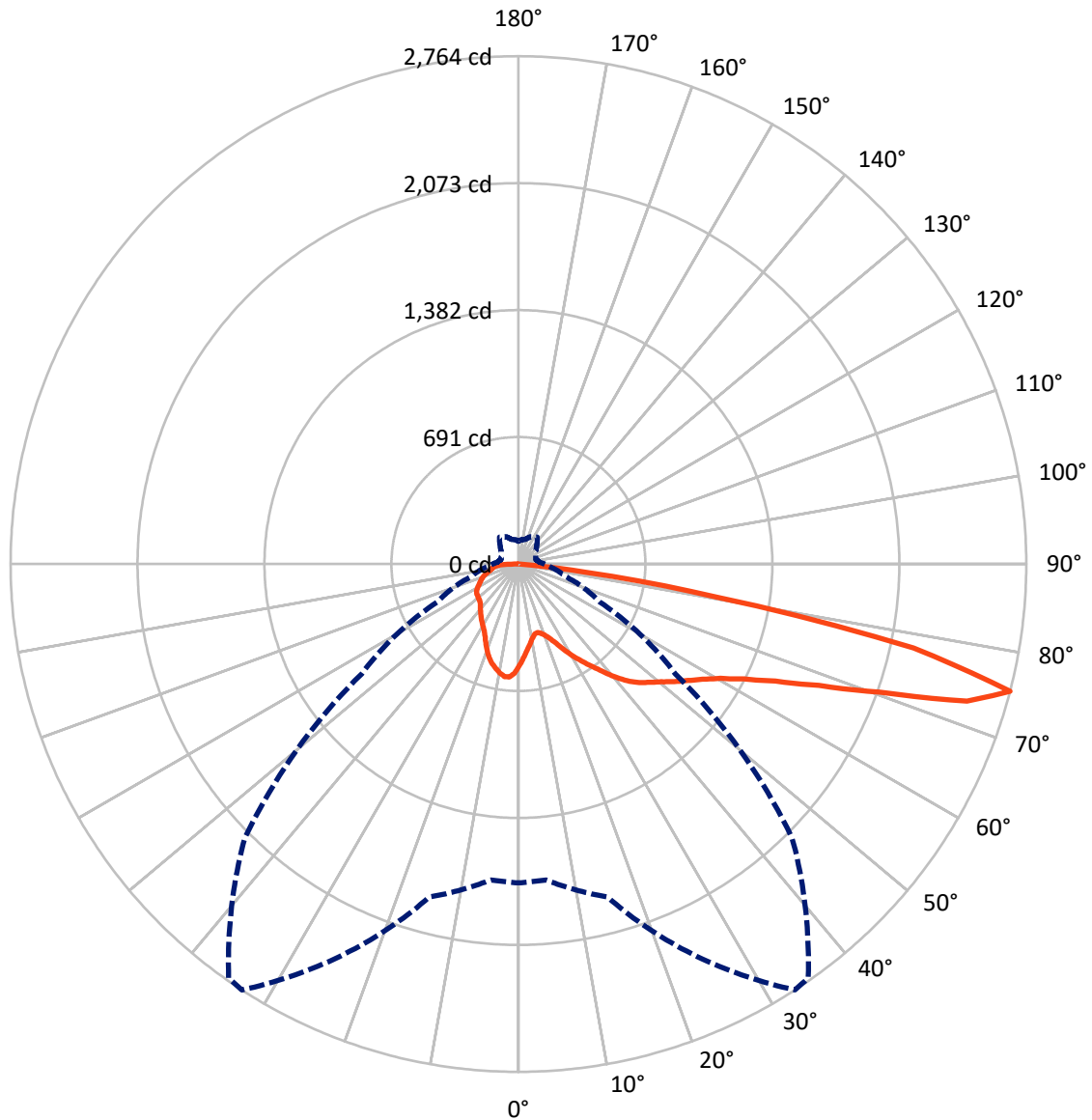


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

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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 | 877.4 | 0.0 | 877.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 2734.5 | 0.0 | 2734.5 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 3612.0 | 0.0 | 3612.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.7 | 1.4 |
| 10°-20° | 145.4 | 4.0 |
| 20°-30° | 241.8 | 6.7 |
| 30°-40° | 360.7 | 10.0 |
| 40°-50° | 503.9 | 14.0 |
| 50°-60° | 672.7 | 18.6 |
| 60°-70° | 834.0 | 23.1 |
| 70°-80° | 721.1 | 20.0 |
| 80°-90° | 80.6 | 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° | 3612.0 | 100.0 |
| 0°-180° | 3612.0 | 100.0 |



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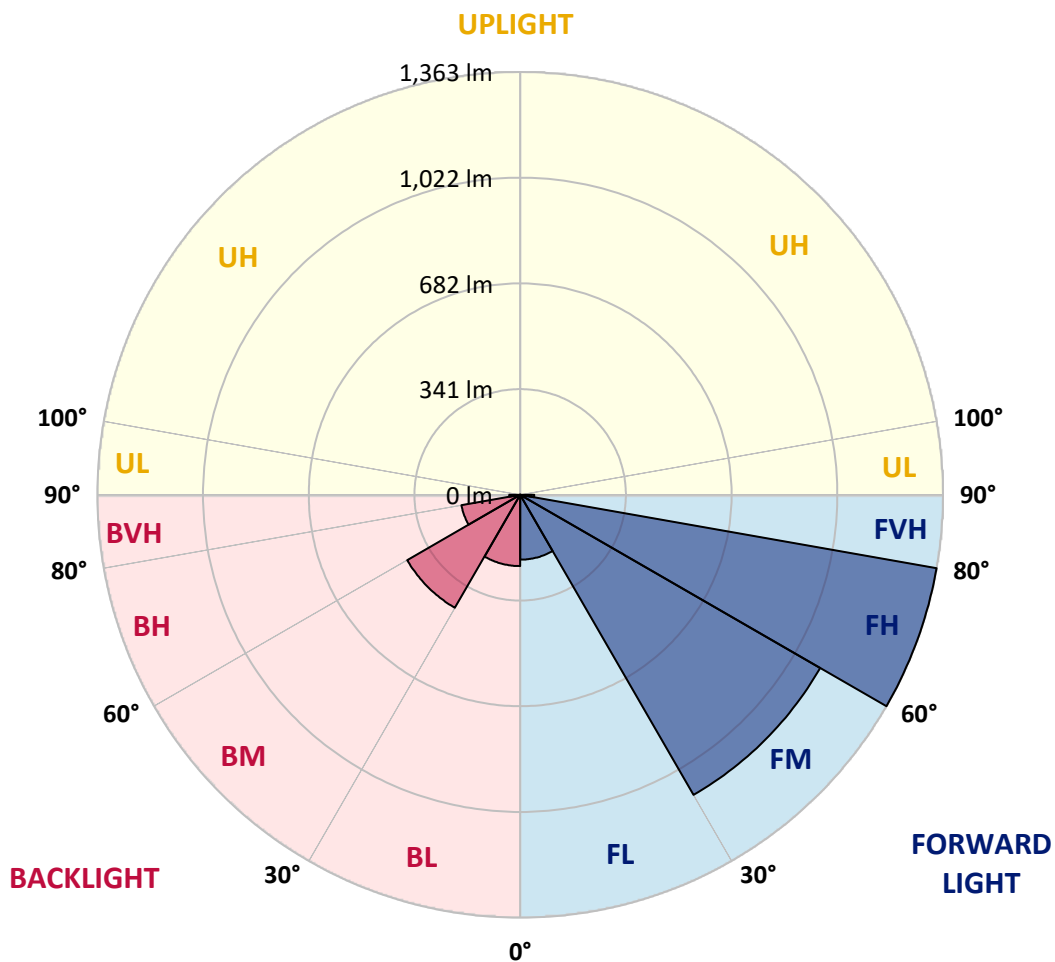
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 209.1 | 5.8 | | | |
| FM | (30°-60°) | 1116.9 | 30.9 | | | |
| FH | (60°-80°) | 1363.0 | 37.7 | | | G1/1800 |
| FVH | (80°-90°) | 45.6 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 229.8 | 6.4 | B1/500 | | |
| BM | (30°-60°) | 420.5 | 11.6 | B1/1000 | | |
| BH | (60°-80°) | 192.1 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 35.1 | 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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 |
| 2.5° | 502.0 | 503.1 | 506.3 | 510.0 | 512.2 | 512.2 | 518.1 | 525.0 | 533.6 | 541.1 | 549.2 |
| 5° | 460.1 | 461.8 | 464.4 | 469.3 | 475.2 | 476.2 | 488.0 | 500.4 | 515.9 | 532.6 | 548.6 |
| 7.5° | 418.9 | 422.1 | 427.4 | 433.9 | 443.0 | 445.1 | 461.8 | 478.4 | 499.8 | 525.0 | 551.3 |
| 10° | 387.2 | 389.4 | 392.0 | 401.2 | 412.4 | 416.2 | 438.2 | 459.1 | 488.6 | 519.7 | 554.5 |
| 12.5° | 378.6 | 378.6 | 378.6 | 382.9 | 392.0 | 395.3 | 418.3 | 445.1 | 478.4 | 515.9 | 559.4 |
| 15° | 391.0 | 390.4 | 384.5 | 381.3 | 386.7 | 389.4 | 409.2 | 435.5 | 473.0 | 517.0 | 568.5 |
| 17.5° | 418.9 | 417.2 | 403.3 | 392.6 | 396.3 | 397.9 | 410.8 | 433.3 | 471.4 | 521.3 | 581.9 |
| 20° | 455.3 | 451.6 | 430.1 | 414.0 | 413.5 | 414.6 | 424.2 | 439.8 | 474.1 | 528.8 | 596.4 |
| 22.5° | 503.6 | 501.4 | 469.8 | 445.1 | 440.8 | 440.8 | 445.1 | 454.8 | 481.1 | 537.4 | 616.2 |
| 25° | 565.8 | 559.9 | 521.8 | 488.6 | 478.9 | 476.2 | 475.7 | 475.7 | 493.4 | 550.2 | 640.9 |
| 27.5° | 629.6 | 622.6 | 584.0 | 539.0 | 526.1 | 521.3 | 512.7 | 506.3 | 509.5 | 564.2 | 670.4 |
| 30° | 687.0 | 677.4 | 644.6 | 598.0 | 578.7 | 571.2 | 555.6 | 542.2 | 533.6 | 583.5 | 709.5 |
| 32.5° | 718.6 | 714.9 | 692.4 | 650.0 | 628.0 | 624.8 | 599.1 | 581.4 | 566.3 | 608.7 | 762.1 |
| 35° | 761.0 | 756.2 | 741.7 | 706.8 | 680.6 | 672.5 | 653.2 | 632.3 | 608.2 | 642.5 | 828.6 |
| 37.5° | 800.2 | 797.5 | 792.1 | 768.0 | 740.1 | 732.1 | 714.4 | 692.4 | 659.7 | 692.4 | 903.1 |
| 40° | 839.9 | 836.6 | 834.5 | 825.9 | 806.1 | 800.7 | 792.1 | 766.4 | 722.4 | 747.1 | 976.6 |
| 42.5° | 897.8 | 890.8 | 868.3 | 867.7 | 869.4 | 873.6 | 874.2 | 845.8 | 791.0 | 815.2 | 1041.0 |
| 45° | 973.4 | 954.1 | 903.7 | 902.1 | 920.8 | 932.1 | 959.4 | 935.3 | 862.4 | 884.9 | 1112.8 |
| 47.5° | 1012.0 | 992.2 | 940.1 | 936.9 | 961.6 | 978.2 | 1045.8 | 1022.2 | 936.4 | 963.2 | 1187.4 |
| 50° | 1030.8 | 1017.9 | 972.3 | 982.5 | 1007.7 | 1023.8 | 1127.8 | 1109.1 | 1013.1 | 1047.9 | 1281.2 |
| 52.5° | 1057.1 | 1035.6 | 1003.4 | 1024.9 | 1062.4 | 1079.0 | 1201.3 | 1198.1 | 1078.0 | 1140.2 | 1384.2 |
| 55° | 1047.9 | 1036.7 | 1042.6 | 1071.5 | 1118.7 | 1143.4 | 1275.3 | 1275.3 | 1143.9 | 1238.9 | 1486.1 |
| 57.5° | 1055.4 | 1047.9 | 1096.7 | 1122.5 | 1182.0 | 1217.4 | 1364.4 | 1340.8 | 1199.7 | 1321.5 | 1554.7 |
| 60° | 1119.3 | 1097.8 | 1135.9 | 1186.8 | 1263.5 | 1297.9 | 1466.3 | 1409.4 | 1245.3 | 1392.8 | 1567.1 |
| 62.5° | 1231.9 | 1214.7 | 1218.5 | 1276.9 | 1376.2 | 1415.8 | 1567.1 | 1470.0 | 1275.9 | 1422.8 | 1521.0 |
| 65° | 1418.5 | 1410.5 | 1364.4 | 1399.8 | 1536.5 | 1572.4 | 1693.1 | 1522.6 | 1267.3 | 1400.3 | 1399.2 |
| 67.5° | 1669.5 | 1637.3 | 1575.1 | 1606.8 | 1764.4 | 1800.9 | 1844.9 | 1542.4 | 1211.5 | 1265.7 | 1124.6 |
| 70° | 1877.6 | 1850.8 | 1822.4 | 1905.5 | 2086.8 | 2106.6 | 2003.1 | 1523.6 | 1075.8 | 990.6 | 754.0 |
| 72.5° | 2010.1 | 1990.8 | 2017.0 | 2261.6 | 2551.7 | 2514.2 | 2159.2 | 1392.2 | 839.3 | 606.6 | 377.0 |
| 75° | 1734.9 | 1725.8 | 1876.0 | 2372.1 | 2763.6 | 2749.6 | 2105.0 | 1042.0 | 487.0 | 267.1 | 171.6 |
| 77.5° | 872.6 | 971.8 | 1130.0 | 1682.9 | 2198.8 | 2201.5 | 1533.8 | 500.9 | 204.9 | 149.6 | 118.0 |
| 80° | 245.6 | 248.8 | 377.0 | 694.0 | 1097.8 | 1169.7 | 580.3 | 170.0 | 116.9 | 111.6 | 88.0 |
| 82.5° | 58.5 | 54.2 | 96.5 | 205.4 | 368.4 | 383.5 | 174.3 | 61.1 | 65.4 | 69.7 | 54.2 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 6.4 | 6.4 | 15.6 | 19.8 | 15.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 |
| 2.5° | 552.9 | 558.3 | 566.9 | 574.4 | 580.8 | 585.6 | 593.2 | 594.2 | 596.4 | 597.4 | 598.5 |
| 5° | 557.8 | 567.9 | 584.0 | 598.0 | 607.6 | 610.3 | 616.8 | 616.2 | 616.8 | 616.8 | 616.2 |
| 7.5° | 564.2 | 578.1 | 600.7 | 616.2 | 621.6 | 620.0 | 618.4 | 612.5 | 607.6 | 605.5 | 602.8 |
| 10° | 572.2 | 588.3 | 614.6 | 625.9 | 623.2 | 614.6 | 604.4 | 593.7 | 585.1 | 580.8 | 579.7 |
| 12.5° | 580.3 | 601.2 | 625.9 | 629.1 | 618.4 | 602.8 | 585.6 | 573.8 | 562.6 | 556.7 | 556.7 |
| 15° | 593.7 | 616.8 | 635.0 | 628.5 | 609.2 | 589.4 | 565.8 | 549.7 | 536.8 | 528.8 | 528.3 |
| 17.5° | 609.8 | 634.4 | 644.6 | 625.9 | 598.0 | 570.1 | 541.7 | 520.8 | 504.1 | 496.1 | 491.3 |
| 20° | 629.6 | 652.7 | 649.5 | 617.3 | 581.4 | 547.0 | 511.6 | 486.4 | 469.3 | 460.7 | 459.1 |
| 22.5° | 652.1 | 671.5 | 651.1 | 603.3 | 558.8 | 514.9 | 476.2 | 451.0 | 439.8 | 433.3 | 433.9 |
| 25° | 679.5 | 694.5 | 651.6 | 586.7 | 526.7 | 472.5 | 438.7 | 426.9 | 425.3 | 422.6 | 423.7 |
| 27.5° | 713.8 | 718.6 | 649.5 | 564.2 | 485.4 | 428.0 | 408.1 | 413.0 | 417.2 | 415.6 | 416.7 |
| 30° | 754.6 | 747.6 | 644.6 | 531.5 | 434.4 | 387.2 | 388.3 | 399.0 | 404.9 | 403.3 | 403.8 |
| 32.5° | 802.3 | 776.6 | 635.5 | 491.8 | 386.1 | 362.5 | 371.1 | 381.8 | 387.7 | 387.7 | 388.3 |
| 35° | 855.9 | 811.4 | 617.8 | 440.3 | 352.4 | 347.5 | 355.0 | 363.6 | 367.4 | 365.2 | 366.8 |
| 37.5° | 912.3 | 841.5 | 589.4 | 382.9 | 327.1 | 335.7 | 340.0 | 342.2 | 341.6 | 338.4 | 336.8 |
| 40° | 964.8 | 865.1 | 538.5 | 326.1 | 306.2 | 323.4 | 325.5 | 319.6 | 312.7 | 306.8 | 303.0 |
| 42.5° | 1005.0 | 877.4 | 467.7 | 284.8 | 286.4 | 309.4 | 311.1 | 299.3 | 285.9 | 276.7 | 274.6 |
| 45° | 1046.3 | 881.7 | 397.4 | 251.5 | 264.9 | 295.5 | 299.8 | 283.7 | 265.5 | 254.7 | 253.1 |
| 47.5° | 1093.5 | 892.4 | 328.2 | 228.5 | 246.7 | 285.9 | 292.8 | 273.0 | 252.6 | 236.5 | 233.8 |
| 50° | 1156.8 | 912.8 | 276.2 | 210.8 | 233.8 | 281.0 | 290.7 | 264.4 | 238.7 | 221.0 | 218.8 |
| 52.5° | 1237.3 | 942.8 | 227.9 | 196.8 | 223.6 | 273.5 | 287.5 | 255.8 | 228.5 | 207.0 | 203.8 |
| 55° | 1306.4 | 954.1 | 196.8 | 185.0 | 212.9 | 264.4 | 284.8 | 252.6 | 217.2 | 193.1 | 189.3 |
| 57.5° | 1338.1 | 921.9 | 174.8 | 173.2 | 201.7 | 253.1 | 279.4 | 241.9 | 204.9 | 186.1 | 182.9 |
| 60° | 1323.6 | 842.0 | 158.2 | 162.5 | 188.8 | 238.7 | 265.5 | 231.1 | 196.3 | 180.7 | 177.5 |
| 62.5° | 1259.2 | 749.8 | 145.9 | 152.3 | 174.3 | 220.4 | 249.4 | 221.5 | 188.8 | 174.8 | 170.5 |
| 65° | 1146.1 | 648.4 | 136.8 | 143.2 | 161.4 | 202.7 | 236.5 | 210.2 | 180.2 | 166.3 | 162.5 |
| 67.5° | 935.3 | 515.9 | 127.1 | 134.1 | 150.7 | 188.2 | 224.7 | 201.1 | 170.5 | 161.4 | 158.2 |
| 70° | 618.9 | 347.0 | 118.0 | 125.0 | 140.0 | 174.3 | 212.4 | 191.5 | 161.4 | 155.5 | 151.2 |
| 72.5° | 284.2 | 186.6 | 108.3 | 115.3 | 127.6 | 158.7 | 196.8 | 177.0 | 149.1 | 145.3 | 138.9 |
| 75° | 140.5 | 114.8 | 96.5 | 103.0 | 112.6 | 140.0 | 178.6 | 164.6 | 137.8 | 131.4 | 123.9 |
| 77.5° | 102.4 | 85.8 | 83.1 | 89.6 | 97.6 | 123.9 | 159.3 | 151.8 | 126.6 | 117.5 | 113.2 |
| 80° | 76.2 | 66.5 | 69.7 | 76.2 | 83.7 | 112.1 | 149.1 | 142.1 | 116.9 | 107.8 | 104.6 |
| 82.5° | 46.7 | 44.5 | 53.6 | 61.1 | 70.3 | 103.0 | 142.1 | 129.8 | 105.1 | 96.5 | 92.8 |
| 85° | 13.4 | 16.1 | 27.4 | 39.7 | 49.9 | 83.1 | 132.5 | 113.7 | 88.5 | 74.0 | 71.3 |
| 87.5° | 0.0 | 1.6 | 8.6 | 18.2 | 29.5 | 55.2 | 101.9 | 89.0 | 67.6 | 54.7 | 52.6 |
| 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)