

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: P401233

Luminaire Tested: **ENV-SA1C-722-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-722-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

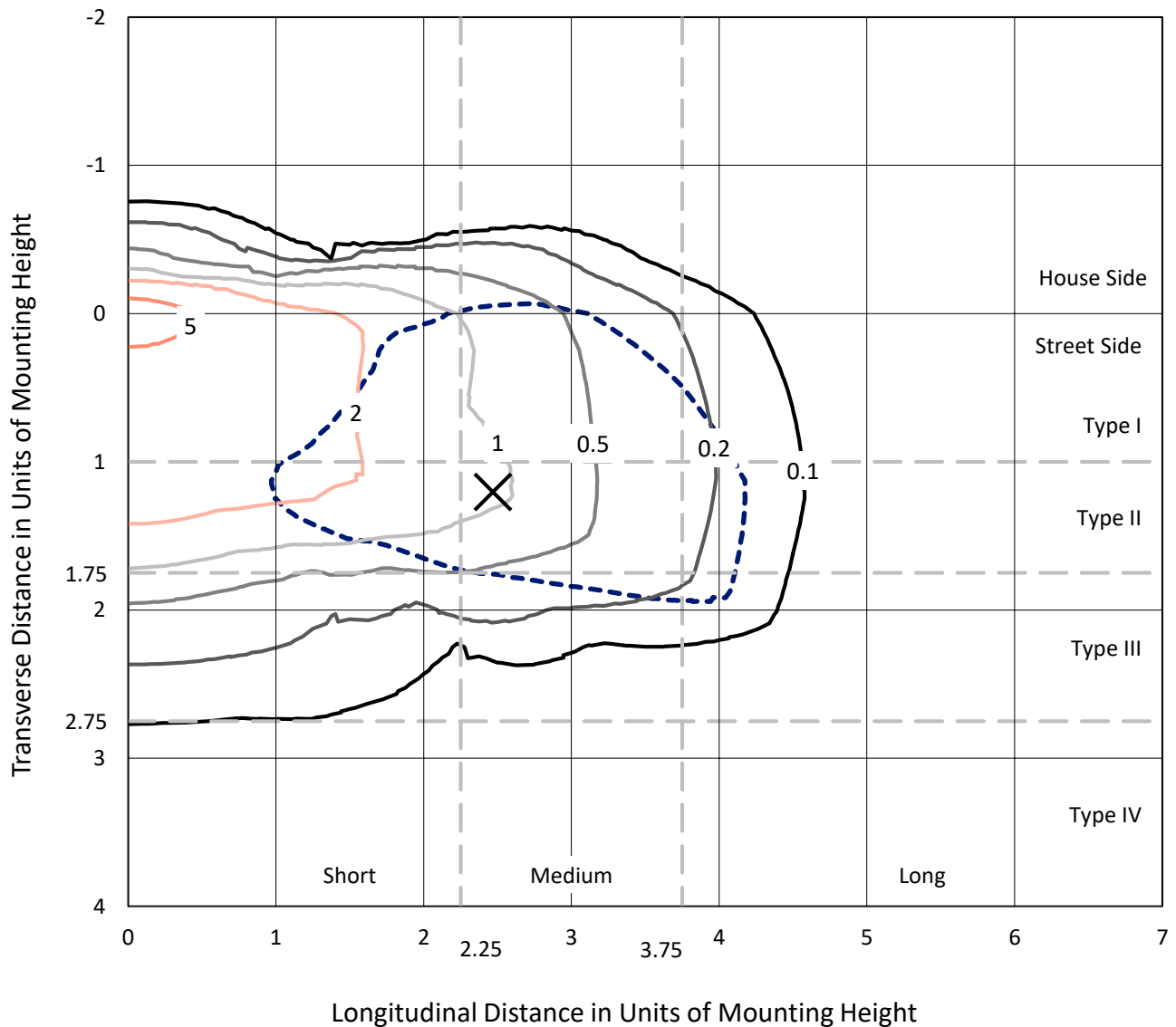
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P401233
 CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

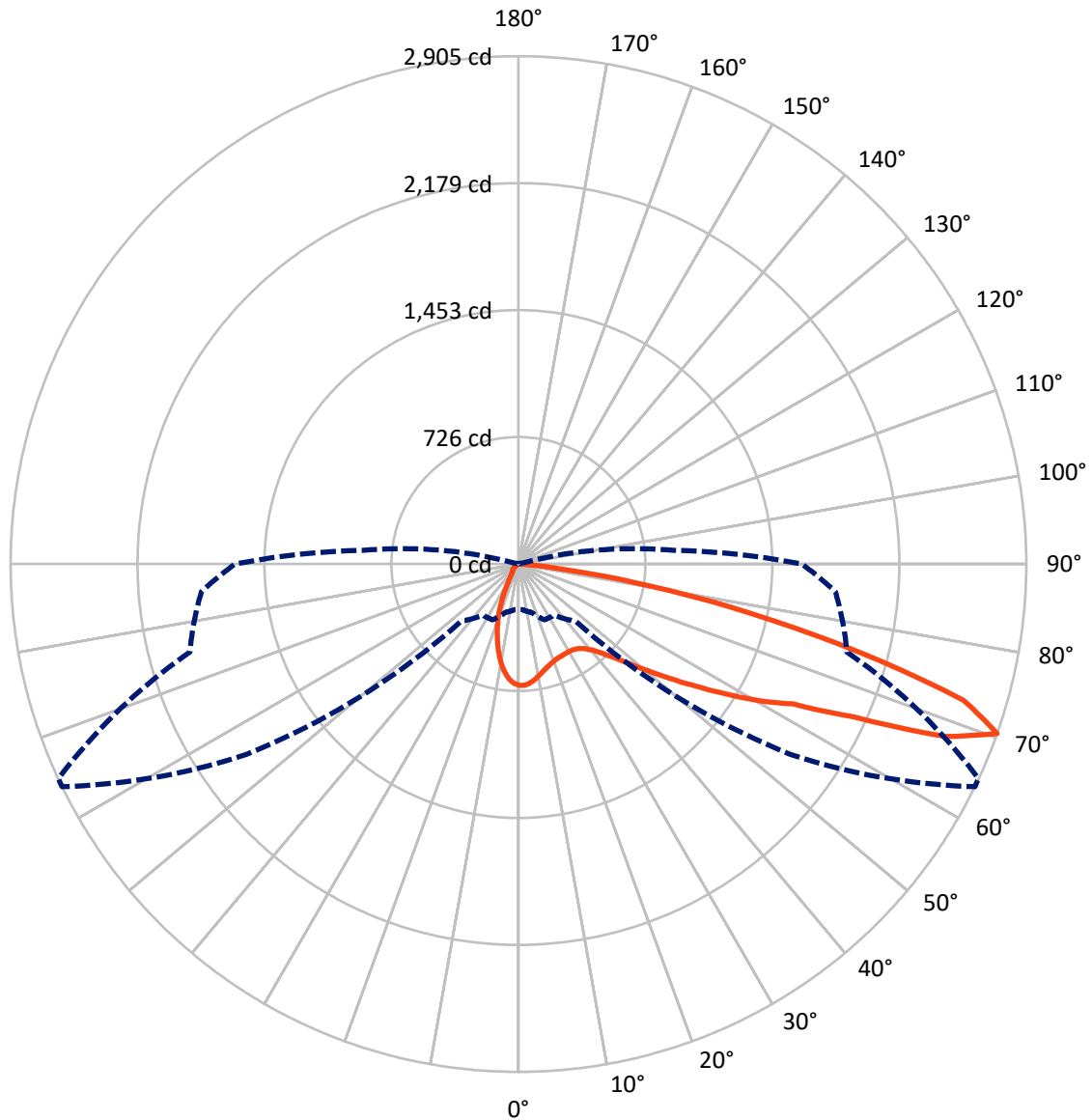
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P401233
CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P401233

CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 344.3 | 0.0 | 344.3 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 2335.7 | 0.0 | 2335.7 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 2680.0 | 0.0 | 2680.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.5 | 2.2 |
| 10°-20° | 129.7 | 4.8 |
| 20°-30° | 178.7 | 6.7 |
| 30°-40° | 246.0 | 9.2 |
| 40°-50° | 366.7 | 13.7 |
| 50°-60° | 579.3 | 21.6 |
| 60°-70° | 656.4 | 24.5 |
| 70°-80° | 431.0 | 16.1 |
| 80°-90° | 33.8 | 1.3 |
| 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° | 2680.0 | 100.0 |
| 0°-180° | 2680.0 | 100.0 |



REPORT NUMBER: P401233

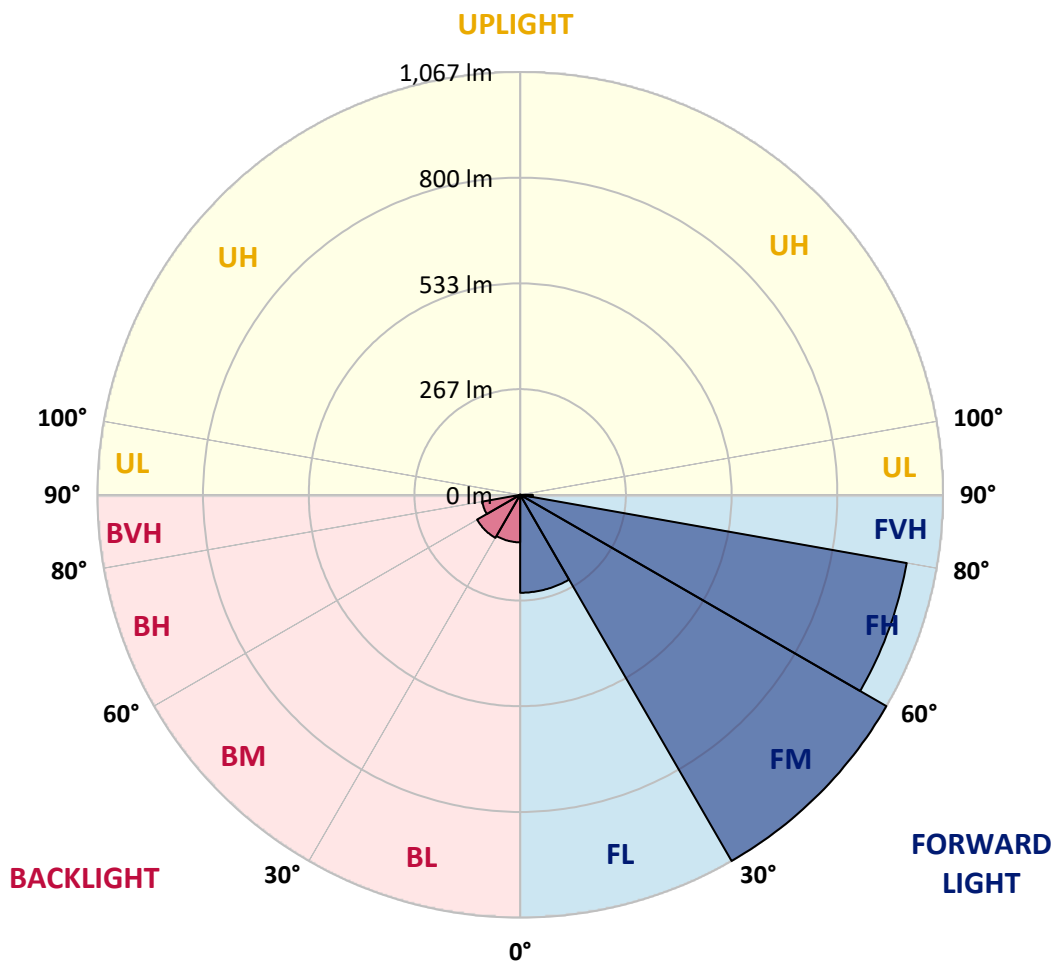
CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 247.0 | 9.2 | | | |
| FM | (30°-60°) | 1066.6 | 39.8 | | | |
| FH | (60°-80°) | 990.2 | 36.9 | | | G1/1800 |
| FVH | (80°-90°) | 31.9 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 119.8 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 125.4 | 4.7 | B0/220 | | |
| BH | (60°-80°) | 97.2 | 3.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.9 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P401233

CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 |
| 2.5° | 674.4 | 674.4 | 677.7 | 681.0 | 682.9 | 688.1 | 691.9 | 694.7 | 694.7 | 696.6 | 693.3 |
| 5° | 629.7 | 629.7 | 632.5 | 640.5 | 649.0 | 659.8 | 672.1 | 684.3 | 686.7 | 695.6 | 695.2 |
| 7.5° | 588.2 | 592.0 | 596.7 | 604.7 | 613.6 | 629.7 | 646.6 | 667.8 | 670.2 | 691.9 | 696.6 |
| 10° | 559.4 | 561.8 | 564.6 | 573.6 | 586.8 | 605.1 | 623.5 | 648.5 | 652.7 | 685.3 | 696.6 |
| 12.5° | 536.3 | 536.8 | 541.1 | 550.9 | 563.7 | 581.6 | 602.3 | 629.7 | 634.8 | 673.5 | 694.7 |
| 15° | 519.8 | 519.4 | 524.1 | 533.5 | 545.8 | 564.1 | 584.4 | 613.2 | 618.8 | 663.6 | 694.2 |
| 17.5° | 509.9 | 510.4 | 514.2 | 521.3 | 533.0 | 550.5 | 571.2 | 599.5 | 605.1 | 655.6 | 696.6 |
| 20° | 509.9 | 509.9 | 512.3 | 515.6 | 524.6 | 540.1 | 560.4 | 589.6 | 595.2 | 650.4 | 699.9 |
| 22.5° | 519.8 | 518.9 | 520.8 | 518.0 | 522.2 | 533.0 | 553.8 | 583.0 | 589.1 | 648.0 | 705.1 |
| 25° | 537.8 | 535.9 | 537.3 | 531.2 | 526.4 | 531.2 | 549.5 | 580.2 | 586.8 | 648.5 | 709.8 |
| 27.5° | 562.7 | 562.7 | 559.9 | 551.4 | 539.6 | 534.5 | 549.1 | 578.3 | 584.9 | 648.5 | 713.1 |
| 30° | 597.6 | 596.2 | 592.0 | 583.5 | 565.1 | 547.6 | 553.8 | 578.3 | 584.9 | 649.0 | 714.0 |
| 32.5° | 632.5 | 633.4 | 635.8 | 627.3 | 602.3 | 570.3 | 565.1 | 582.5 | 588.2 | 648.5 | 712.6 |
| 35° | 667.8 | 668.3 | 678.7 | 679.6 | 647.6 | 606.6 | 584.4 | 593.8 | 597.6 | 653.2 | 713.5 |
| 37.5° | 698.9 | 701.3 | 721.6 | 731.5 | 705.1 | 653.2 | 615.0 | 615.0 | 616.9 | 665.9 | 719.2 |
| 40° | 733.8 | 739.9 | 764.4 | 786.6 | 776.2 | 713.1 | 659.8 | 646.1 | 647.1 | 689.0 | 731.9 |
| 42.5° | 774.3 | 781.9 | 813.9 | 846.0 | 845.5 | 786.6 | 716.4 | 695.6 | 696.6 | 729.1 | 757.8 |
| 45° | 825.7 | 830.9 | 871.4 | 911.5 | 920.0 | 867.7 | 787.5 | 760.2 | 761.1 | 789.9 | 808.3 |
| 47.5° | 888.4 | 894.5 | 933.6 | 981.7 | 1003.4 | 965.2 | 879.9 | 850.2 | 847.4 | 867.7 | 880.9 |
| 50° | 970.4 | 982.2 | 1005.3 | 1051.5 | 1103.8 | 1078.3 | 988.3 | 958.6 | 954.8 | 970.9 | 975.1 |
| 52.5° | 1048.6 | 1059.5 | 1068.9 | 1111.3 | 1212.6 | 1218.8 | 1121.2 | 1088.7 | 1084.9 | 1088.7 | 1093.9 |
| 55° | 1060.4 | 1066.5 | 1073.6 | 1131.1 | 1300.8 | 1397.4 | 1272.5 | 1233.9 | 1223.0 | 1215.9 | 1233.4 |
| 57.5° | 966.6 | 962.9 | 986.4 | 1064.7 | 1315.4 | 1594.9 | 1477.0 | 1402.1 | 1391.7 | 1352.6 | 1335.2 |
| 60° | 765.4 | 760.2 | 782.4 | 889.3 | 1233.4 | 1692.9 | 1760.8 | 1588.3 | 1562.8 | 1431.8 | 1414.8 |
| 62.5° | 537.8 | 531.6 | 560.4 | 623.5 | 956.7 | 1673.6 | 2080.8 | 1764.5 | 1714.1 | 1502.0 | 1478.9 |
| 65° | 414.3 | 411.4 | 427.0 | 441.1 | 583.9 | 1449.7 | 2257.0 | 2108.6 | 2004.4 | 1578.4 | 1548.7 |
| 67.5° | 324.7 | 328.5 | 347.8 | 388.8 | 377.0 | 903.5 | 2240.6 | 2633.6 | 2529.5 | 1718.8 | 1700.0 |
| 70° | 261.1 | 262.0 | 286.1 | 351.6 | 355.8 | 460.0 | 1897.0 | 2905.1 | 2903.7 | 1945.5 | 1820.2 |
| 72.5° | 157.9 | 162.1 | 201.2 | 304.0 | 359.1 | 352.1 | 1275.3 | 2661.9 | 2698.7 | 1998.3 | 1641.5 |
| 75° | 75.9 | 80.1 | 104.2 | 204.1 | 356.8 | 342.6 | 690.0 | 2015.3 | 2062.4 | 1791.9 | 1330.9 |
| 77.5° | 28.3 | 32.0 | 48.1 | 99.9 | 264.4 | 313.9 | 362.9 | 1358.8 | 1396.0 | 1311.6 | 901.6 |
| 80° | 9.0 | 10.4 | 18.9 | 45.7 | 134.3 | 259.2 | 233.8 | 766.3 | 791.3 | 574.0 | 303.0 |
| 82.5° | 0.9 | 1.4 | 5.2 | 15.6 | 51.8 | 132.0 | 137.1 | 288.4 | 301.2 | 112.2 | 61.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 33.9 | 55.1 | 45.2 | 10.8 | 17.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 1.4 | 1.4 | 1.4 | 1.9 |
| 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: P401233

CATALOG NUMBER: ENV-SA1C-722-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 |
| 2.5° | 692.8 | 692.8 | 689.5 | 684.3 | 677.7 | 668.3 | 665.9 | 658.4 | 658.4 | 652.3 | 651.3 |
| 5° | 693.8 | 690.9 | 680.1 | 664.1 | 641.9 | 617.9 | 602.8 | 586.3 | 572.2 | 563.2 | 564.1 |
| 7.5° | 693.8 | 687.6 | 665.9 | 630.6 | 589.1 | 547.6 | 516.1 | 479.3 | 462.3 | 451.0 | 456.2 |
| 10° | 691.9 | 681.5 | 643.8 | 590.1 | 524.6 | 467.1 | 415.2 | 372.8 | 343.6 | 331.3 | 321.0 |
| 12.5° | 687.6 | 672.5 | 616.0 | 539.6 | 455.7 | 380.3 | 308.7 | 253.1 | 214.4 | 195.1 | 192.8 |
| 15° | 683.9 | 663.1 | 583.5 | 484.5 | 378.0 | 279.5 | 199.4 | 146.1 | 113.1 | 105.6 | 106.5 |
| 17.5° | 682.9 | 654.2 | 552.4 | 426.1 | 302.1 | 186.2 | 115.0 | 92.8 | 88.1 | 86.2 | 85.8 |
| 20° | 683.4 | 646.1 | 518.4 | 368.1 | 214.0 | 115.9 | 87.2 | 82.0 | 80.1 | 79.2 | 78.7 |
| 22.5° | 685.3 | 637.2 | 485.0 | 307.3 | 146.1 | 84.8 | 77.8 | 74.5 | 72.1 | 70.7 | 70.2 |
| 25° | 685.3 | 627.3 | 447.7 | 242.7 | 95.7 | 74.5 | 69.8 | 65.5 | 62.2 | 60.3 | 60.3 |
| 27.5° | 683.9 | 616.0 | 409.1 | 184.3 | 75.9 | 66.5 | 61.3 | 55.6 | 51.4 | 49.0 | 49.0 |
| 30° | 679.6 | 602.3 | 371.9 | 128.7 | 66.5 | 59.4 | 52.8 | 45.7 | 40.5 | 38.2 | 37.2 |
| 32.5° | 673.5 | 587.7 | 329.0 | 90.5 | 59.9 | 51.8 | 44.3 | 36.8 | 32.0 | 29.2 | 29.2 |
| 35° | 666.9 | 573.1 | 282.8 | 69.3 | 54.2 | 45.7 | 37.2 | 29.7 | 25.5 | 23.6 | 23.1 |
| 37.5° | 663.6 | 557.5 | 237.5 | 59.9 | 48.5 | 39.1 | 30.2 | 24.0 | 20.7 | 19.3 | 18.9 |
| 40° | 665.9 | 545.8 | 193.2 | 53.7 | 43.4 | 33.0 | 25.0 | 20.3 | 17.4 | 15.6 | 15.6 |
| 42.5° | 680.1 | 539.2 | 151.3 | 49.0 | 38.6 | 27.8 | 20.7 | 16.5 | 13.7 | 12.3 | 12.3 |
| 45° | 708.8 | 543.9 | 115.0 | 44.8 | 33.0 | 23.1 | 17.4 | 13.2 | 10.4 | 9.0 | 9.0 |
| 47.5° | 756.9 | 562.7 | 87.2 | 41.0 | 28.3 | 18.9 | 14.1 | 10.4 | 8.0 | 7.1 | 6.6 |
| 50° | 827.1 | 600.0 | 68.3 | 37.2 | 23.6 | 16.0 | 11.8 | 8.0 | 6.1 | 5.2 | 5.2 |
| 52.5° | 928.5 | 664.5 | 58.4 | 33.0 | 19.3 | 13.2 | 9.4 | 6.1 | 4.7 | 3.8 | 3.8 |
| 55° | 1052.9 | 746.5 | 52.8 | 29.2 | 15.6 | 10.8 | 7.5 | 4.7 | 3.3 | 2.8 | 2.4 |
| 57.5° | 1153.7 | 811.6 | 49.5 | 25.5 | 13.2 | 9.4 | 5.7 | 3.8 | 2.8 | 1.9 | 1.9 |
| 60° | 1242.8 | 853.5 | 43.8 | 21.2 | 11.3 | 7.5 | 4.7 | 2.8 | 1.9 | 1.4 | 1.4 |
| 62.5° | 1314.9 | 880.9 | 36.3 | 17.0 | 9.4 | 6.1 | 3.8 | 2.4 | 1.9 | 1.4 | 1.4 |
| 65° | 1396.9 | 903.0 | 29.7 | 13.2 | 8.0 | 5.2 | 3.3 | 1.9 | 1.4 | 1.4 | 1.4 |
| 67.5° | 1557.6 | 952.5 | 22.2 | 10.4 | 6.1 | 4.2 | 2.8 | 1.9 | 1.4 | 0.9 | 0.9 |
| 70° | 1620.3 | 894.5 | 17.4 | 8.5 | 4.7 | 3.8 | 2.8 | 1.9 | 0.9 | 0.9 | 0.9 |
| 72.5° | 1379.0 | 669.7 | 13.7 | 7.1 | 4.2 | 3.3 | 2.8 | 1.9 | 1.4 | 1.4 | 0.9 |
| 75° | 1093.9 | 452.4 | 10.8 | 5.7 | 4.2 | 3.8 | 2.8 | 2.8 | 2.4 | 1.9 | 1.9 |
| 77.5° | 698.5 | 200.3 | 8.5 | 4.7 | 4.2 | 4.7 | 4.2 | 2.8 | 2.8 | 2.4 | 2.4 |
| 80° | 208.3 | 48.1 | 6.1 | 3.8 | 3.3 | 3.8 | 4.2 | 2.8 | 1.9 | 1.4 | 1.4 |
| 82.5° | 45.2 | 11.3 | 3.8 | 1.9 | 2.4 | 1.9 | 2.8 | 2.8 | 1.9 | 1.4 | 1.4 |
| 85° | 15.1 | 4.2 | 2.4 | 1.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 |
| 87.5° | 0.9 | 1.4 | 1.4 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.9 | 0.9 |
| 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)