

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: P676728

Luminaire Tested: **CCW-SA-1A-760-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676728
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-760-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

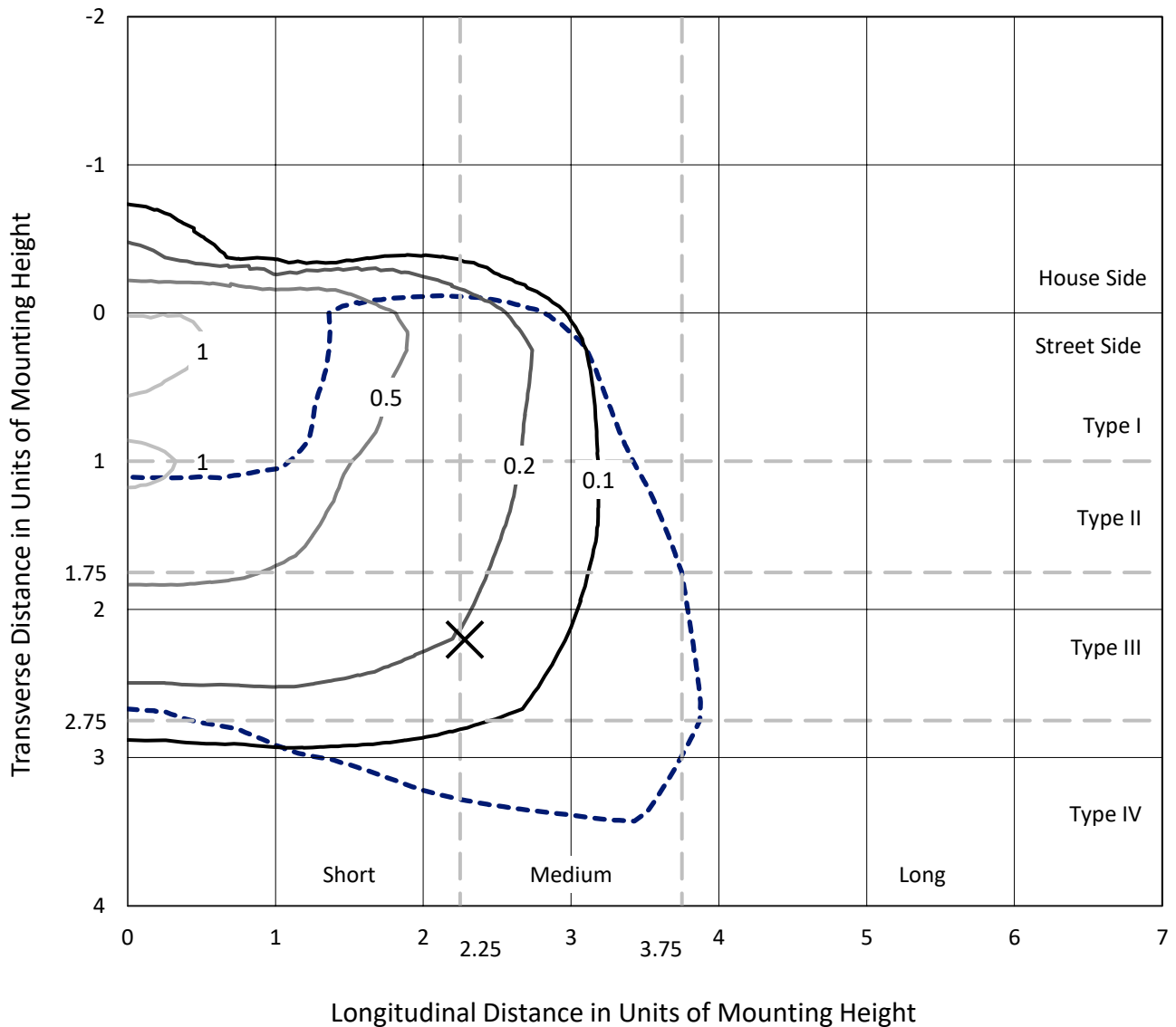
Lumens per Lamp: N/A
Luminaire Lumens: 2019 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

REPORT NUMBER: P676728
 CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

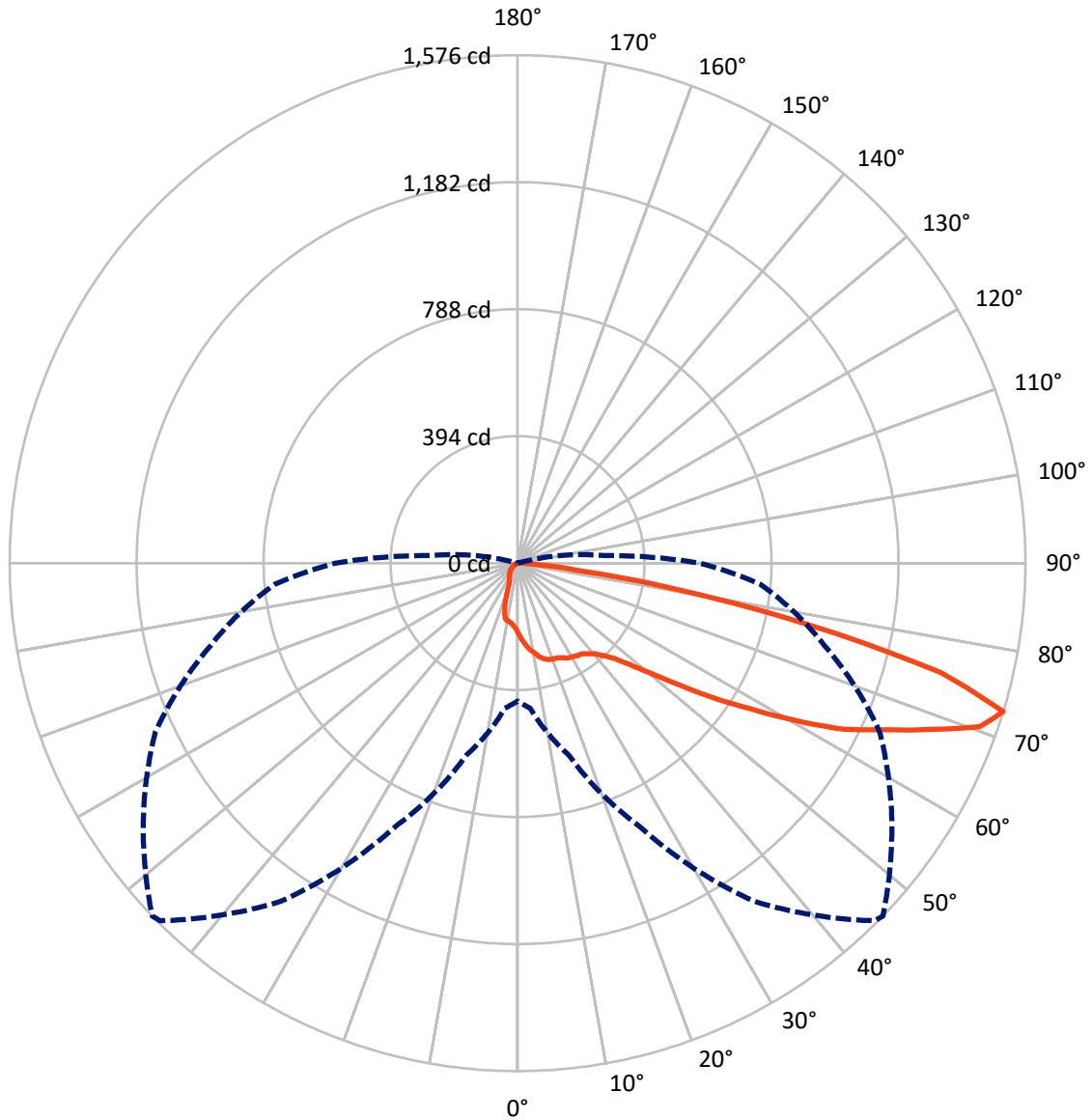
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P676728
CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P676728
 CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 217.4 | 0.0 | 217.4 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 1801.7 | 0.0 | 1801.7 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2019.0 | 0.0 | 2019.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.6 | 1.1 |
| 10°-20° | 65.2 | 3.2 |
| 20°-30° | 102.1 | 5.1 |
| 30°-40° | 143.0 | 7.1 |
| 40°-50° | 235.7 | 11.7 |
| 50°-60° | 423.7 | 21.0 |
| 60°-70° | 614.1 | 30.4 |
| 70°-80° | 383.3 | 19.0 |
| 80°-90° | 30.4 | 1.5 |
| 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° | 2019.0 | 100.0 |
| 0°-180° | 2019.0 | 100.0 |



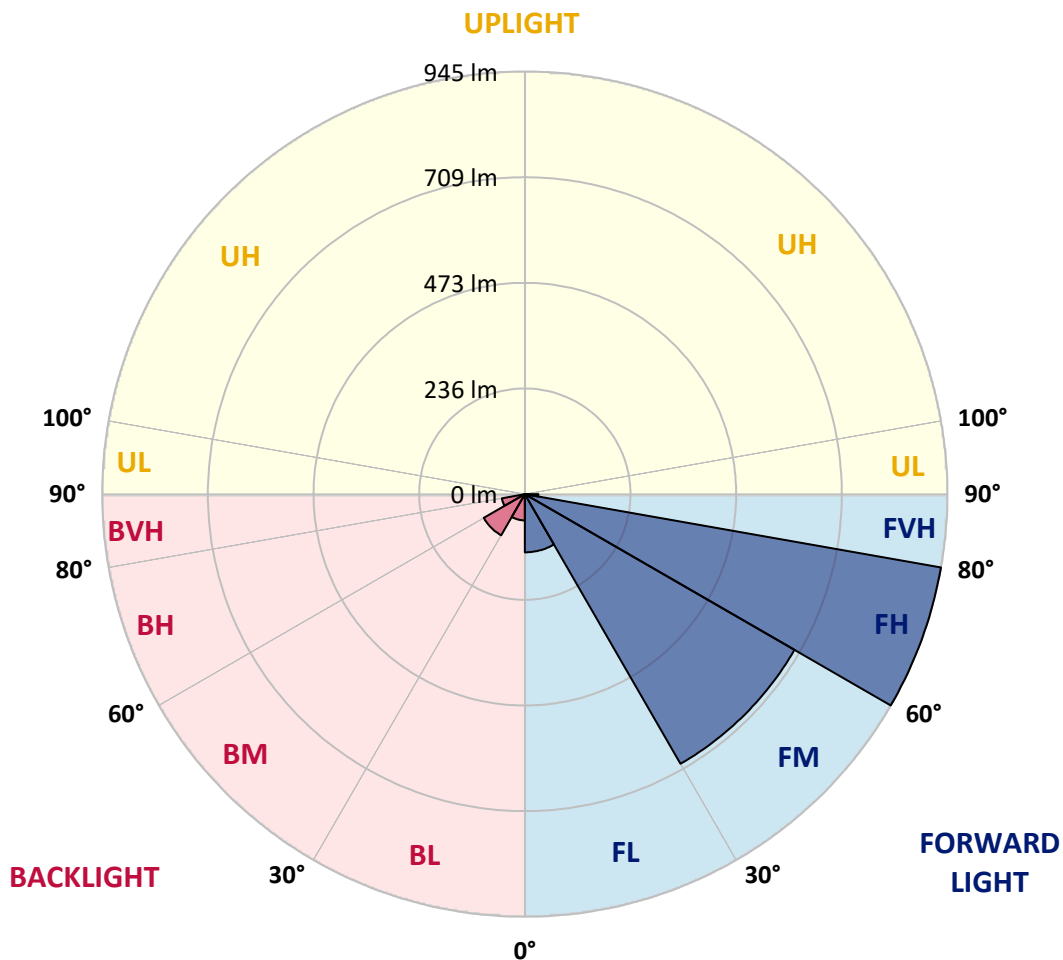
REPORT NUMBER: P676728
 CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 130.1 | 6.4 | | | |
| FM (30°-60°) | 696.2 | 34.5 | | | |
| FH (60°-80°) | 945.1 | 46.8 | | | G1/1800 |
| FVH (80°-90°) | 30.2 | 1.5 | | | G1/100 |
| BL (0°-30°) | 58.7 | 2.9 | B0/110 | | |
| BM (30°-60°) | 106.2 | 5.3 | B0/220 | | |
| BH (60°-80°) | 52.3 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Medium





REPORT NUMBER: P676728

CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 |
| 2.5° | 241.5 | 240.5 | 242.1 | 241.5 | 235.4 | 236.4 | 235.9 | 231.8 | 224.5 | 220.4 | 217.8 |
| 5° | 269.3 | 271.9 | 269.9 | 265.2 | 261.6 | 254.4 | 253.4 | 246.7 | 235.4 | 228.1 | 220.4 |
| 7.5° | 298.2 | 298.2 | 294.1 | 286.9 | 279.1 | 271.4 | 270.4 | 259.0 | 249.3 | 236.9 | 226.1 |
| 10° | 319.8 | 317.2 | 314.2 | 306.4 | 297.7 | 287.4 | 282.2 | 274.0 | 263.2 | 248.2 | 234.3 |
| 12.5° | 338.9 | 334.8 | 329.6 | 318.3 | 308.0 | 296.6 | 297.7 | 284.3 | 277.1 | 263.7 | 243.1 |
| 15° | 349.7 | 346.1 | 341.4 | 331.1 | 315.2 | 310.0 | 308.0 | 299.7 | 286.9 | 273.5 | 253.9 |
| 17.5° | 352.3 | 349.7 | 343.5 | 330.1 | 321.4 | 315.2 | 314.7 | 304.9 | 299.2 | 287.9 | 266.3 |
| 20° | 347.1 | 342.5 | 337.8 | 329.1 | 320.8 | 318.8 | 317.2 | 317.2 | 310.0 | 295.1 | 274.0 |
| 22.5° | 338.4 | 333.2 | 330.6 | 325.5 | 318.8 | 318.3 | 319.3 | 318.3 | 312.6 | 302.8 | 282.2 |
| 25° | 331.7 | 329.1 | 325.0 | 323.4 | 319.3 | 327.0 | 325.5 | 323.9 | 322.4 | 311.1 | 295.1 |
| 27.5° | 333.7 | 333.2 | 330.1 | 323.9 | 320.8 | 329.1 | 333.7 | 334.2 | 333.7 | 322.4 | 306.9 |
| 30° | 334.8 | 332.2 | 329.1 | 327.5 | 328.6 | 336.8 | 336.8 | 348.1 | 343.5 | 332.2 | 318.8 |
| 32.5° | 346.6 | 345.1 | 334.8 | 331.1 | 331.7 | 341.4 | 342.0 | 353.3 | 351.7 | 344.0 | 329.1 |
| 35° | 371.8 | 361.5 | 346.6 | 336.3 | 336.3 | 349.2 | 345.1 | 361.5 | 365.7 | 353.3 | 336.3 |
| 37.5° | 409.4 | 401.7 | 374.9 | 351.7 | 343.0 | 352.3 | 356.4 | 365.7 | 378.0 | 367.2 | 350.7 |
| 40° | 484.1 | 482.6 | 444.4 | 394.5 | 360.0 | 368.2 | 369.8 | 384.2 | 392.4 | 377.5 | 372.9 |
| 42.5° | 593.3 | 585.6 | 550.0 | 471.2 | 390.9 | 387.3 | 392.9 | 402.2 | 421.8 | 409.4 | 398.1 |
| 45° | 699.9 | 696.3 | 660.7 | 572.7 | 447.0 | 425.4 | 422.3 | 438.8 | 467.6 | 454.2 | 445.5 |
| 47.5° | 777.1 | 769.9 | 749.8 | 675.7 | 529.4 | 470.2 | 472.3 | 488.7 | 525.3 | 515.0 | 517.6 |
| 50° | 836.4 | 832.8 | 811.6 | 771.0 | 633.5 | 540.8 | 536.6 | 553.1 | 602.6 | 609.2 | 616.5 |
| 52.5° | 901.3 | 907.9 | 879.6 | 845.1 | 756.5 | 635.5 | 626.2 | 631.9 | 695.8 | 711.2 | 731.3 |
| 55° | 963.6 | 974.4 | 946.1 | 941.4 | 885.3 | 740.6 | 739.0 | 725.6 | 808.0 | 810.1 | 820.9 |
| 57.5° | 1004.3 | 1000.6 | 998.6 | 1023.8 | 1014.0 | 861.1 | 853.4 | 840.0 | 914.6 | 901.3 | 933.7 |
| 60° | 1007.3 | 1017.6 | 1052.1 | 1114.5 | 1132.0 | 1002.7 | 991.4 | 954.8 | 1006.8 | 974.9 | 1036.7 |
| 62.5° | 1030.5 | 1038.8 | 1102.6 | 1188.6 | 1211.3 | 1127.3 | 1135.1 | 1042.4 | 1085.6 | 1060.4 | 1151.0 |
| 65° | 971.8 | 997.6 | 1125.8 | 1246.3 | 1315.3 | 1253.5 | 1245.8 | 1155.1 | 1166.5 | 1142.8 | 1263.8 |
| 67.5° | 918.8 | 928.5 | 1062.4 | 1263.8 | 1397.7 | 1380.2 | 1377.1 | 1255.1 | 1249.9 | 1206.1 | 1295.7 |
| 70° | 746.8 | 758.6 | 891.0 | 1174.2 | 1425.5 | 1528.0 | 1520.8 | 1395.1 | 1306.6 | 1171.6 | 1132.0 |
| 72.5° | 428.0 | 451.7 | 617.5 | 904.3 | 1280.8 | 1569.2 | 1575.9 | 1417.8 | 1239.6 | 985.2 | 756.0 |
| 75° | 140.1 | 146.8 | 256.5 | 512.4 | 957.9 | 1368.9 | 1357.0 | 1218.5 | 1000.1 | 650.4 | 341.4 |
| 77.5° | 47.4 | 48.4 | 75.7 | 185.4 | 531.0 | 924.9 | 931.6 | 870.9 | 614.4 | 270.4 | 94.2 |
| 80° | 24.2 | 25.8 | 37.1 | 69.5 | 218.4 | 503.7 | 514.5 | 496.5 | 257.5 | 79.8 | 22.7 |
| 82.5° | 11.3 | 11.8 | 21.6 | 38.6 | 99.9 | 197.8 | 197.8 | 217.3 | 91.2 | 44.8 | 9.3 |
| 85° | 4.1 | 4.1 | 11.3 | 22.1 | 42.2 | 65.9 | 66.4 | 67.0 | 47.9 | 33.5 | 4.1 |
| 87.5° | 1.5 | 1.5 | 5.7 | 9.3 | 15.5 | 20.1 | 20.1 | 16.0 | 24.2 | 22.1 | 1.5 |
| 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: P676728
 CATALOG NUMBER: CCW-SA-1A-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 | 215.8 |
| 2.5° | 216.8 | 213.7 | 211.2 | 207.5 | 202.9 | 200.3 | 200.9 | 197.8 | 197.8 | 196.2 | 195.7 |
| 5° | 216.8 | 213.7 | 207.0 | 200.9 | 196.7 | 191.6 | 189.0 | 186.9 | 186.9 | 185.9 | 186.4 |
| 7.5° | 218.4 | 213.7 | 204.5 | 196.2 | 189.5 | 184.4 | 180.3 | 179.7 | 178.7 | 176.1 | 178.2 |
| 10° | 227.6 | 220.9 | 205.5 | 194.2 | 186.4 | 180.8 | 173.6 | 171.5 | 168.4 | 163.8 | 164.3 |
| 12.5° | 235.4 | 226.6 | 212.7 | 197.2 | 187.5 | 178.2 | 161.7 | 143.7 | 136.0 | 127.7 | 128.2 |
| 15° | 246.7 | 234.3 | 215.3 | 201.4 | 187.5 | 157.6 | 127.7 | 104.5 | 92.2 | 86.0 | 86.0 |
| 17.5° | 252.9 | 242.6 | 222.5 | 203.9 | 172.5 | 128.2 | 90.6 | 70.6 | 68.5 | 69.5 | 69.5 |
| 20° | 265.7 | 251.8 | 230.7 | 206.0 | 147.8 | 91.2 | 66.4 | 64.4 | 65.4 | 67.5 | 67.0 |
| 22.5° | 274.0 | 260.1 | 236.9 | 196.7 | 114.3 | 65.4 | 62.3 | 61.3 | 62.3 | 64.9 | 64.9 |
| 25° | 280.7 | 271.9 | 246.7 | 174.1 | 80.9 | 59.2 | 58.2 | 59.2 | 60.3 | 61.3 | 62.8 |
| 27.5° | 297.2 | 282.2 | 253.4 | 144.7 | 58.2 | 55.1 | 56.1 | 56.7 | 56.7 | 58.2 | 58.7 |
| 30° | 308.0 | 296.1 | 258.5 | 111.8 | 51.5 | 51.0 | 52.0 | 52.5 | 53.0 | 54.6 | 55.1 |
| 32.5° | 318.3 | 314.2 | 251.8 | 75.7 | 48.4 | 47.4 | 46.9 | 47.4 | 49.4 | 51.0 | 50.5 |
| 35° | 333.2 | 330.6 | 242.1 | 52.5 | 45.3 | 43.3 | 42.2 | 42.7 | 44.3 | 45.8 | 45.3 |
| 37.5° | 351.2 | 353.8 | 218.4 | 45.8 | 42.2 | 39.7 | 37.6 | 37.6 | 38.1 | 39.7 | 40.2 |
| 40° | 372.3 | 379.0 | 190.6 | 42.7 | 40.2 | 37.1 | 35.0 | 32.4 | 31.9 | 31.4 | 31.9 |
| 42.5° | 411.0 | 418.7 | 159.1 | 40.7 | 37.1 | 33.5 | 30.4 | 27.3 | 24.7 | 23.2 | 23.2 |
| 45° | 465.0 | 458.9 | 117.9 | 38.6 | 35.5 | 30.4 | 25.8 | 22.1 | 18.5 | 17.0 | 17.0 |
| 47.5° | 539.7 | 518.6 | 80.9 | 36.6 | 33.0 | 26.8 | 21.6 | 17.0 | 13.9 | 12.4 | 12.4 |
| 50° | 643.2 | 573.7 | 52.5 | 34.5 | 31.4 | 23.2 | 17.5 | 12.4 | 10.3 | 9.8 | 10.3 |
| 52.5° | 741.1 | 629.8 | 41.7 | 31.9 | 28.3 | 20.1 | 13.4 | 10.3 | 9.3 | 8.8 | 8.8 |
| 55° | 831.2 | 658.2 | 37.1 | 29.4 | 25.8 | 16.5 | 11.3 | 8.8 | 8.2 | 7.7 | 7.7 |
| 57.5° | 907.4 | 668.0 | 31.9 | 25.8 | 20.6 | 12.9 | 9.3 | 7.7 | 6.7 | 6.2 | 6.2 |
| 60° | 973.4 | 670.5 | 24.7 | 20.6 | 14.9 | 9.8 | 7.7 | 6.7 | 5.7 | 4.6 | 4.6 |
| 62.5° | 1025.9 | 652.5 | 17.5 | 14.4 | 10.3 | 7.7 | 6.7 | 4.6 | 3.1 | 2.1 | 1.5 |
| 65° | 1067.6 | 616.5 | 11.8 | 9.8 | 6.7 | 5.7 | 4.1 | 2.1 | 0.5 | 0.0 | 0.0 |
| 67.5° | 1018.7 | 534.6 | 9.3 | 7.2 | 4.6 | 3.6 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 70° | 830.7 | 414.6 | 6.7 | 4.6 | 3.1 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 565.5 | 267.3 | 5.2 | 3.1 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 253.9 | 95.8 | 3.6 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 61.8 | 22.7 | 2.6 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 16.5 | 5.7 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.2 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.6 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)