

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: P672875

Luminaire Tested: **CCP-SA-1B-830-U-RW**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-RW
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ RW distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

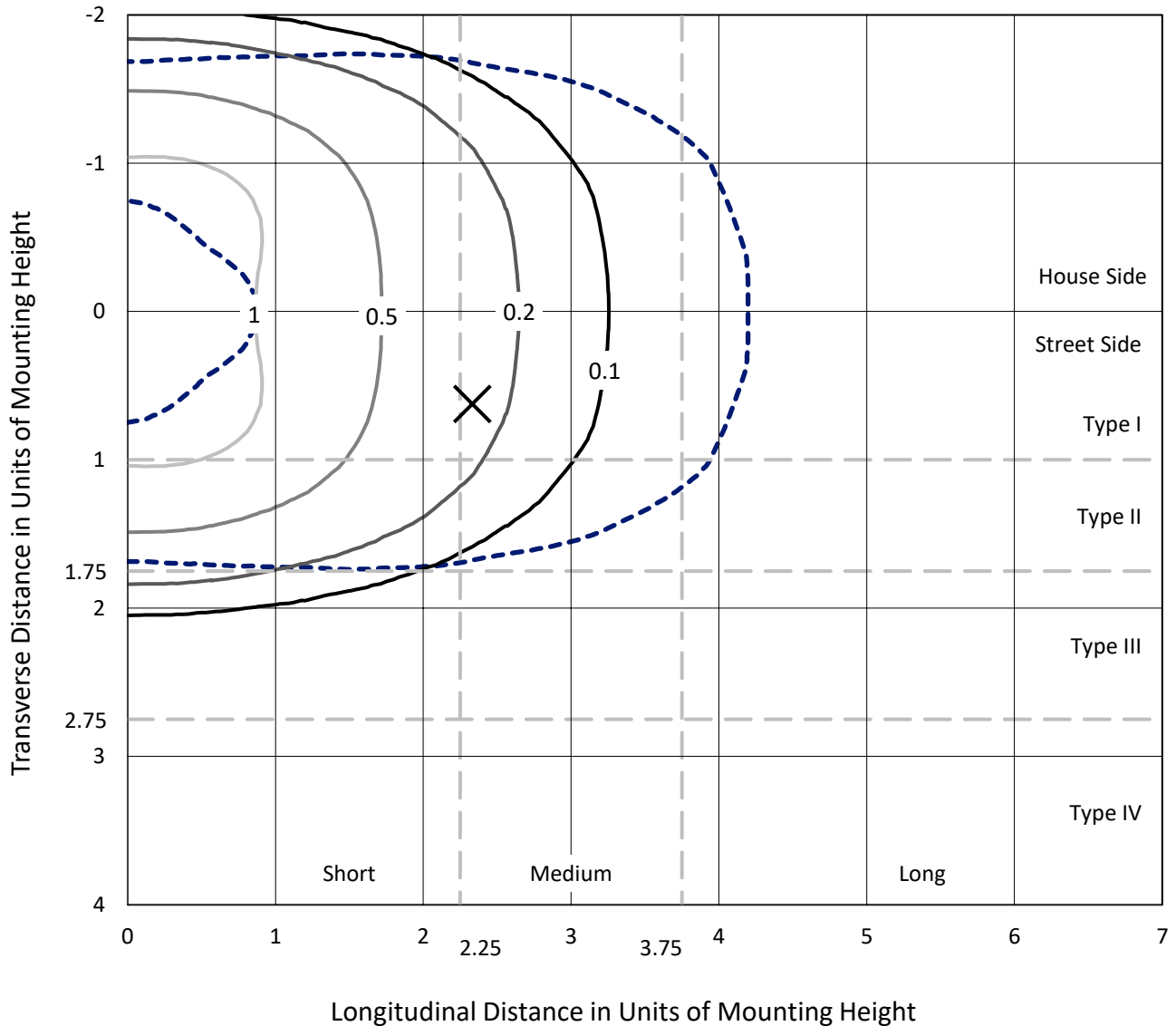
Lumens per Lamp: N/A
Luminaire Lumens: 2791.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

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Iso-Footcandle Lines of Horizontal Illumination

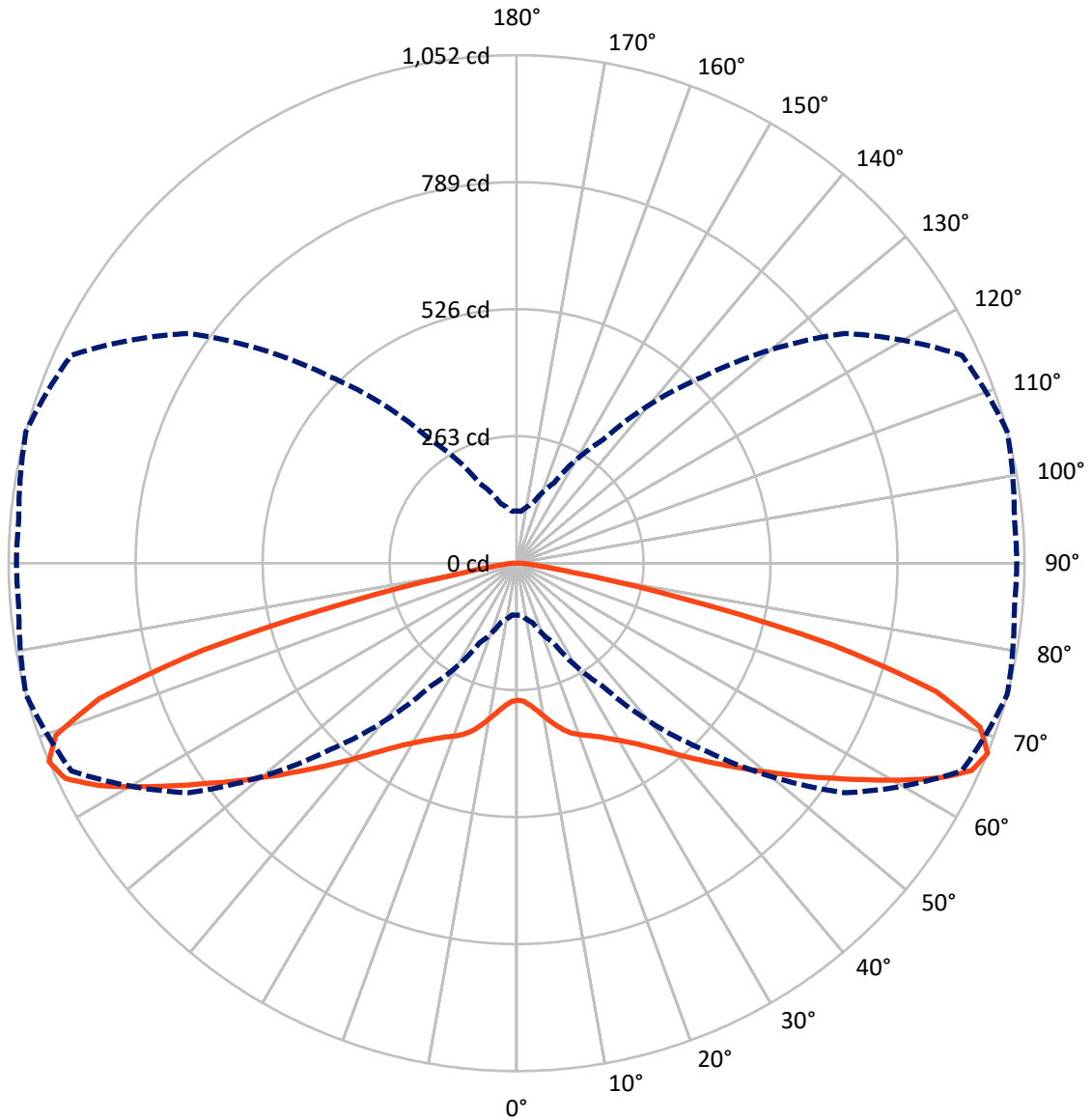
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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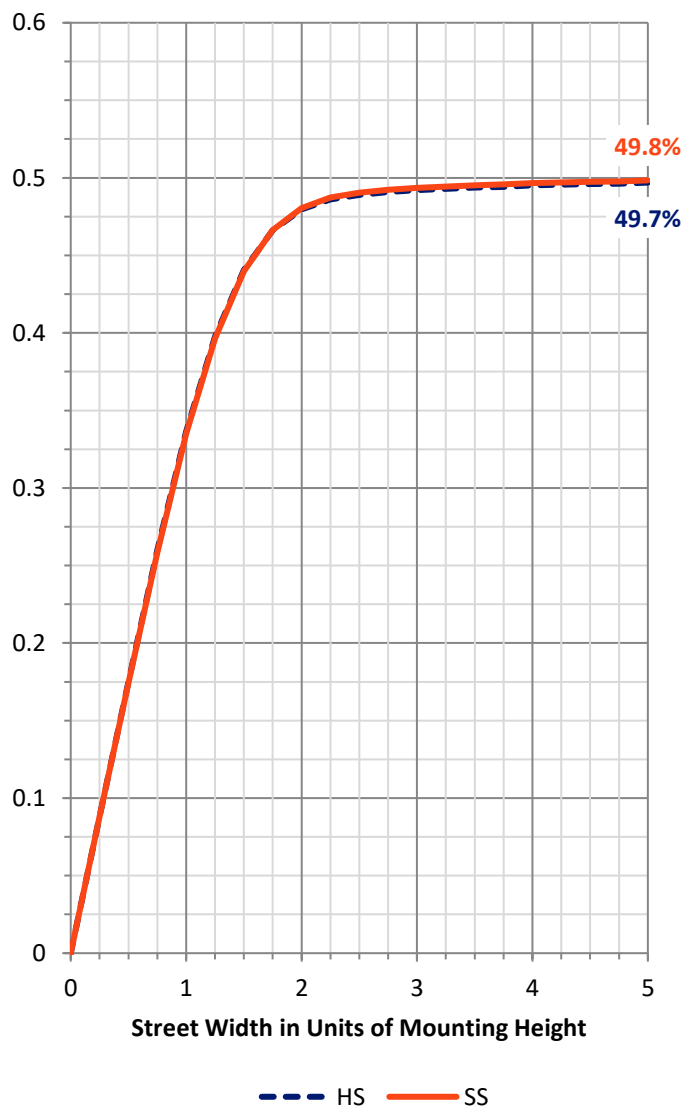
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1395.8 | 0.0 | 1395.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1395.8 | 0.0 | 1395.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2791.5 | 0.0 | 2791.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.1 | 1.0 |
| 10°-20° | 94.7 | 3.4 |
| 20°-30° | 184.9 | 6.6 |
| 30°-40° | 319.0 | 11.4 |
| 40°-50° | 516.7 | 18.5 |
| 50°-60° | 702.7 | 25.2 |
| 60°-70° | 648.3 | 23.2 |
| 70°-80° | 271.3 | 9.7 |
| 80°-90° | 25.9 | 0.9 |
| 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° | 2791.5 | 100.0 |
| 0°-180° | 2791.5 | 100.0 |



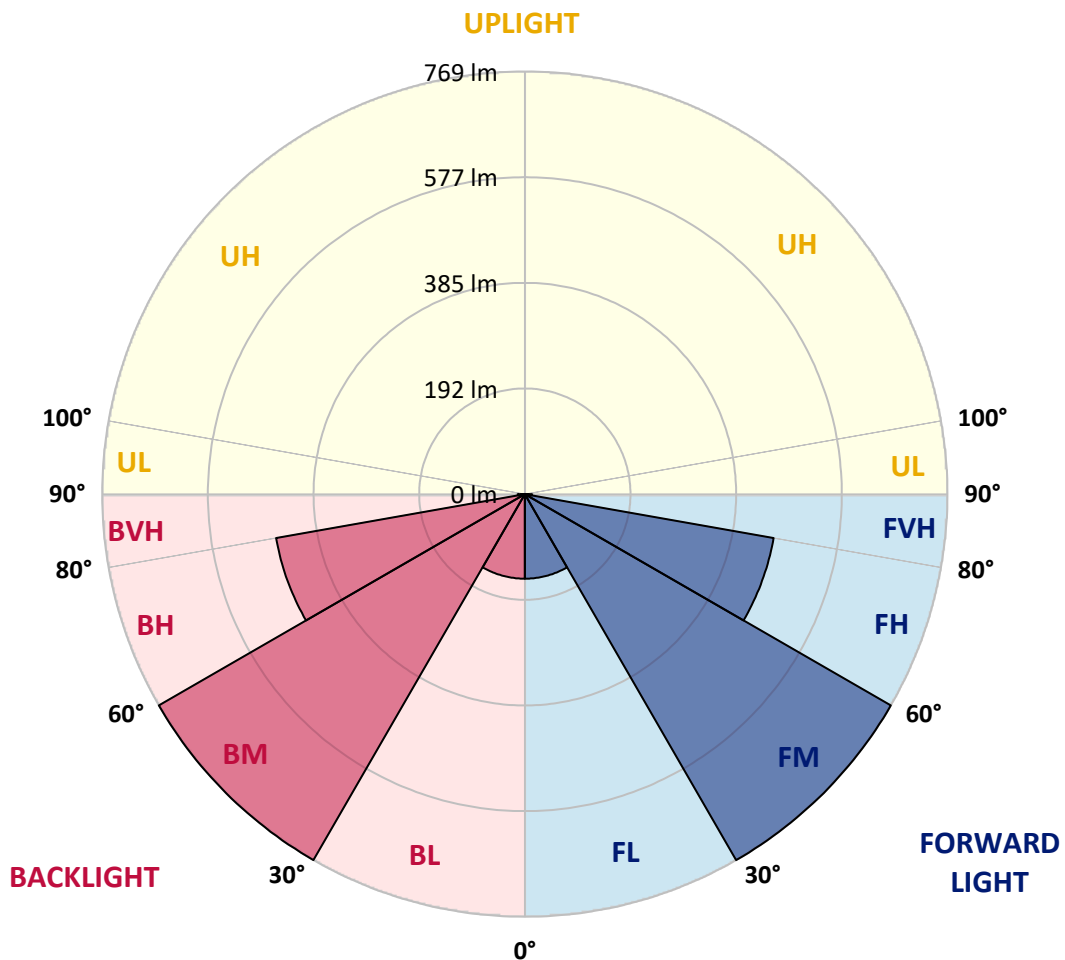
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 153.8 | 5.5 | | | |
| FM (30°-60°) | 769.2 | 27.6 | | | |
| FH (60°-80°) | 459.8 | 16.5 | | | G0/660 |
| FVH (80°-90°) | 12.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 153.8 | 5.5 | B1/500 | | |
| BM (30°-60°) | 769.2 | 27.6 | B1/1000 | | |
| BH (60°-80°) | 459.8 | 16.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.9 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 | 284.0 |
| 2.5° | 282.2 | 282.2 | 283.0 | 284.0 | 284.4 | 285.2 | 285.4 | 285.4 | 286.6 | 286.4 | 286.6 |
| 5° | 281.4 | 281.4 | 282.8 | 284.6 | 286.6 | 289.0 | 291.4 | 292.8 | 295.8 | 296.4 | 296.6 |
| 7.5° | 282.2 | 282.4 | 284.4 | 287.4 | 290.8 | 295.2 | 299.9 | 303.7 | 308.7 | 310.5 | 311.7 |
| 10° | 285.2 | 285.4 | 288.0 | 292.2 | 297.4 | 303.9 | 310.5 | 316.5 | 324.5 | 328.2 | 328.8 |
| 12.5° | 289.8 | 290.0 | 293.8 | 300.7 | 308.1 | 316.1 | 323.5 | 331.2 | 341.2 | 346.6 | 347.8 |
| 15° | 296.8 | 296.2 | 302.3 | 312.3 | 322.7 | 332.8 | 339.4 | 346.8 | 357.5 | 364.5 | 366.3 |
| 17.5° | 306.5 | 306.9 | 314.3 | 327.1 | 340.0 | 350.2 | 356.9 | 361.1 | 370.3 | 377.5 | 379.3 |
| 20° | 318.5 | 320.3 | 329.8 | 344.6 | 359.7 | 370.5 | 375.1 | 374.5 | 379.7 | 386.0 | 387.4 |
| 22.5° | 335.6 | 336.8 | 348.2 | 364.9 | 382.1 | 393.4 | 395.2 | 388.6 | 388.4 | 392.4 | 394.2 |
| 25° | 355.6 | 356.7 | 368.7 | 388.0 | 406.2 | 418.1 | 416.3 | 404.8 | 398.8 | 399.0 | 400.2 |
| 27.5° | 379.1 | 381.1 | 393.6 | 413.3 | 432.1 | 443.0 | 440.3 | 423.7 | 411.8 | 408.2 | 407.4 |
| 30° | 409.6 | 411.8 | 424.5 | 443.4 | 460.0 | 469.6 | 465.6 | 444.6 | 426.9 | 420.9 | 419.7 |
| 32.5° | 449.4 | 449.2 | 462.2 | 480.5 | 492.1 | 498.3 | 490.5 | 466.6 | 444.4 | 436.3 | 434.7 |
| 35° | 490.3 | 492.3 | 505.2 | 522.8 | 531.7 | 532.1 | 519.6 | 492.7 | 466.2 | 452.4 | 449.4 |
| 37.5° | 536.5 | 537.5 | 552.3 | 569.0 | 574.8 | 571.6 | 553.1 | 523.2 | 492.7 | 478.1 | 472.9 |
| 40° | 583.8 | 584.9 | 602.1 | 618.2 | 624.6 | 617.0 | 592.7 | 557.0 | 524.0 | 508.0 | 505.0 |
| 42.5° | 627.8 | 630.4 | 649.7 | 668.5 | 674.8 | 665.9 | 636.6 | 593.9 | 557.2 | 541.7 | 537.7 |
| 45° | 664.3 | 667.1 | 688.8 | 712.9 | 723.9 | 716.7 | 683.6 | 635.4 | 595.3 | 578.6 | 571.8 |
| 47.5° | 691.8 | 695.4 | 718.5 | 747.4 | 768.9 | 767.5 | 733.6 | 679.4 | 636.2 | 616.6 | 610.3 |
| 50° | 710.7 | 714.5 | 739.4 | 770.5 | 802.8 | 813.7 | 784.4 | 728.0 | 681.8 | 659.7 | 655.5 |
| 52.5° | 712.1 | 715.5 | 744.0 | 782.7 | 825.9 | 849.8 | 834.3 | 779.1 | 732.0 | 709.1 | 706.1 |
| 55° | 680.8 | 683.2 | 721.1 | 772.7 | 835.3 | 877.5 | 879.9 | 834.9 | 785.6 | 762.5 | 761.1 |
| 57.5° | 608.9 | 612.3 | 657.7 | 725.9 | 819.7 | 895.3 | 919.4 | 893.3 | 846.2 | 824.5 | 823.3 |
| 60° | 491.9 | 496.3 | 548.1 | 638.8 | 763.1 | 890.7 | 952.9 | 948.1 | 912.4 | 891.3 | 890.5 |
| 62.5° | 347.0 | 348.6 | 402.6 | 502.6 | 652.3 | 841.8 | 969.2 | 1001.5 | 981.0 | 959.8 | 961.0 |
| 65° | 203.9 | 206.1 | 245.7 | 335.6 | 494.7 | 729.2 | 941.1 | 1038.6 | 1036.0 | 1016.6 | 1018.6 |
| 67.5° | 107.8 | 107.8 | 127.6 | 183.4 | 311.1 | 545.9 | 829.3 | 1018.2 | 1052.3 | 1035.2 | 1036.2 |
| 70° | 74.5 | 74.3 | 77.9 | 92.1 | 150.3 | 338.4 | 620.4 | 911.0 | 1019.2 | 1012.8 | 1015.4 |
| 72.5° | 63.0 | 62.6 | 62.8 | 64.8 | 76.5 | 152.9 | 376.7 | 701.7 | 908.6 | 918.4 | 920.6 |
| 75° | 55.2 | 54.6 | 54.2 | 53.8 | 54.8 | 69.4 | 171.8 | 432.9 | 673.6 | 735.4 | 734.2 |
| 77.5° | 47.6 | 47.2 | 46.8 | 45.4 | 43.8 | 45.6 | 70.2 | 194.7 | 346.4 | 408.8 | 404.4 |
| 80° | 39.1 | 39.1 | 39.7 | 37.7 | 34.7 | 33.5 | 41.9 | 72.7 | 115.0 | 120.0 | 110.4 |
| 82.5° | 30.7 | 30.7 | 33.7 | 30.9 | 27.3 | 24.3 | 29.1 | 38.7 | 46.8 | 37.9 | 30.9 |
| 85° | 21.7 | 21.9 | 28.1 | 25.7 | 21.1 | 14.0 | 18.1 | 23.1 | 26.3 | 16.7 | 13.0 |
| 87.5° | 8.8 | 9.4 | 17.5 | 13.8 | 13.2 | 7.0 | 8.4 | 10.2 | 13.0 | 7.0 | 5.6 |
| 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)