

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: McGRAW-EDISON

Report Number: P594451

Luminaire Tested: **ISS-PA1A-730-U-5WQ**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1A-730-U-5WQ
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

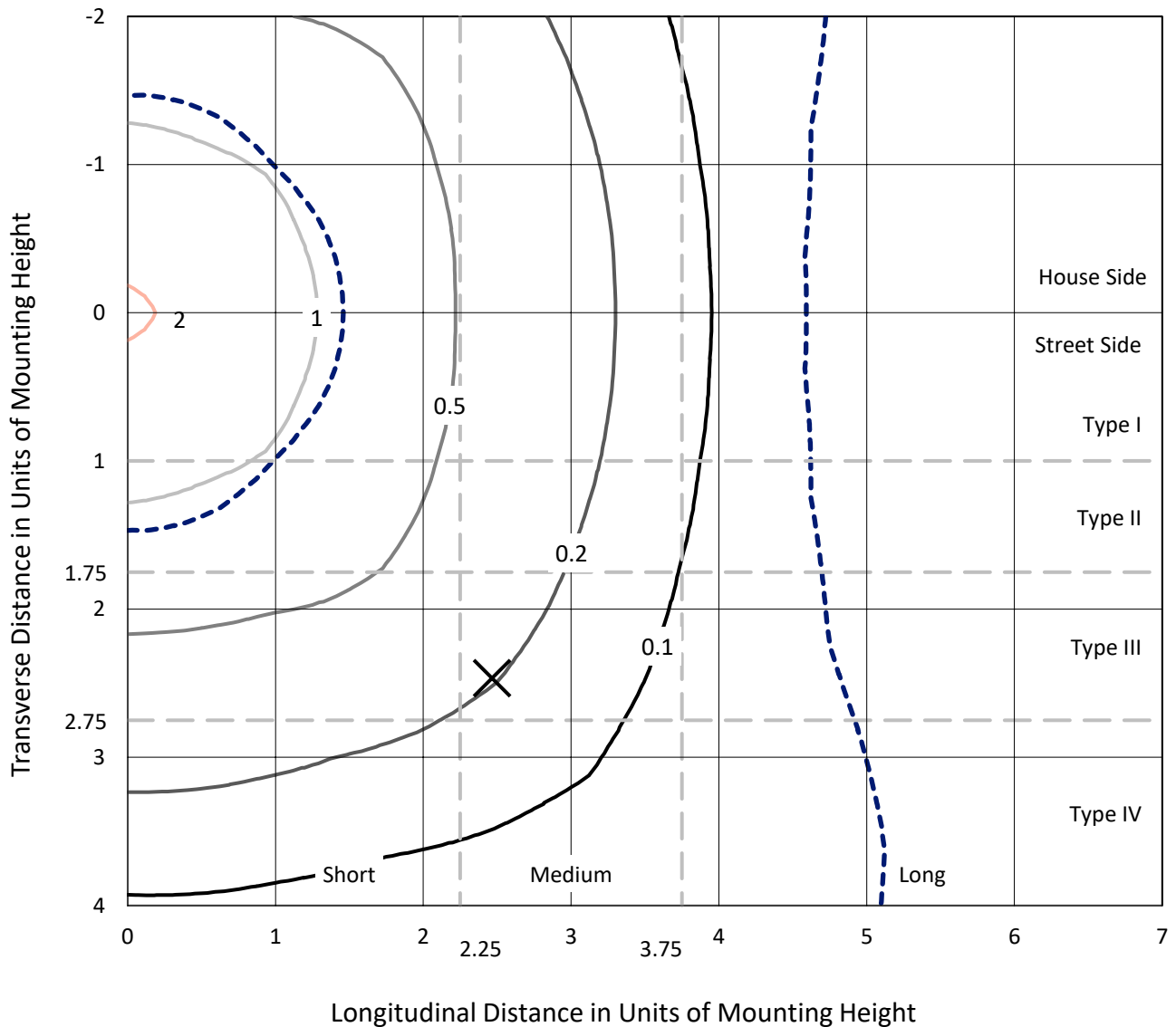
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

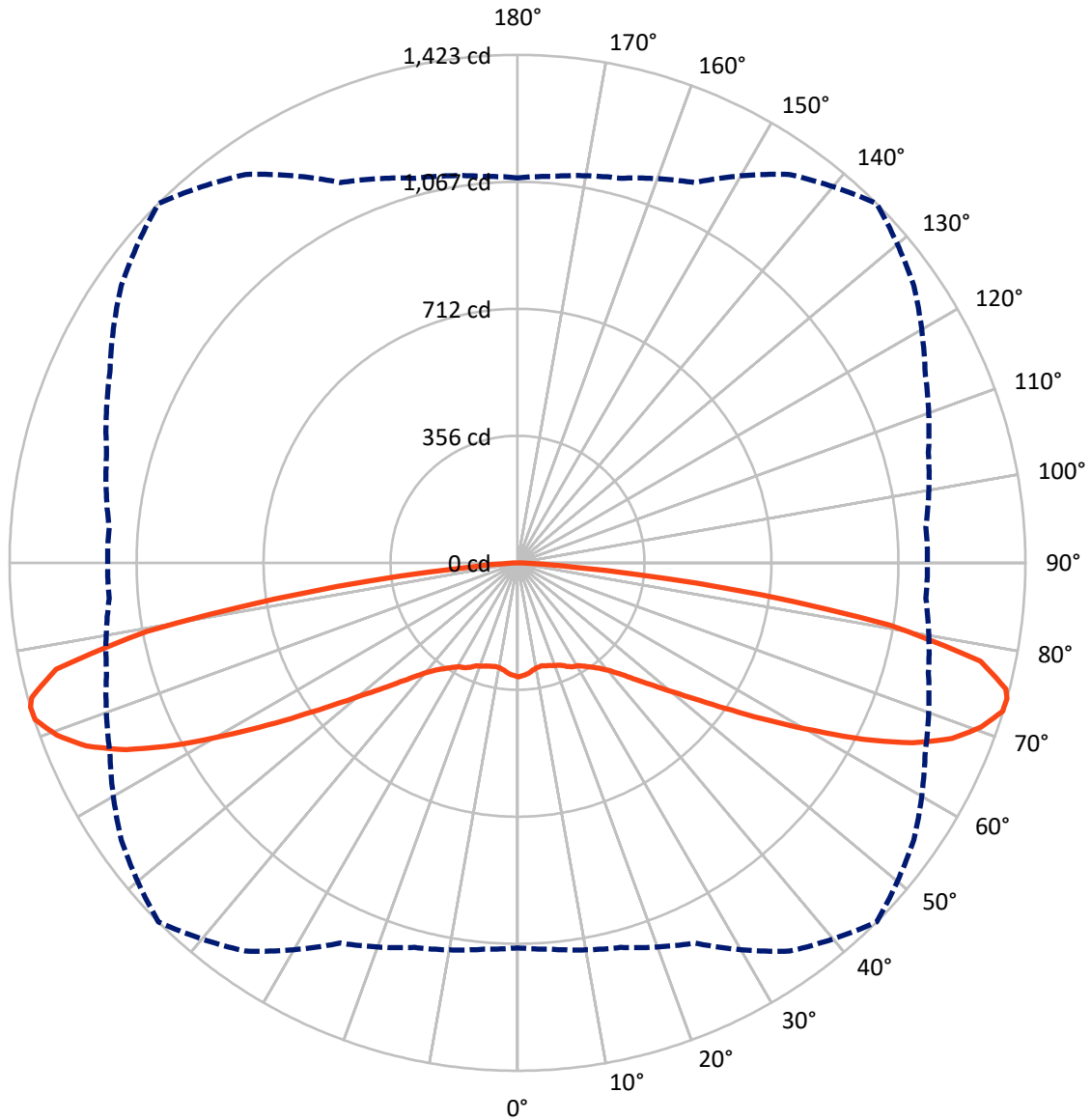
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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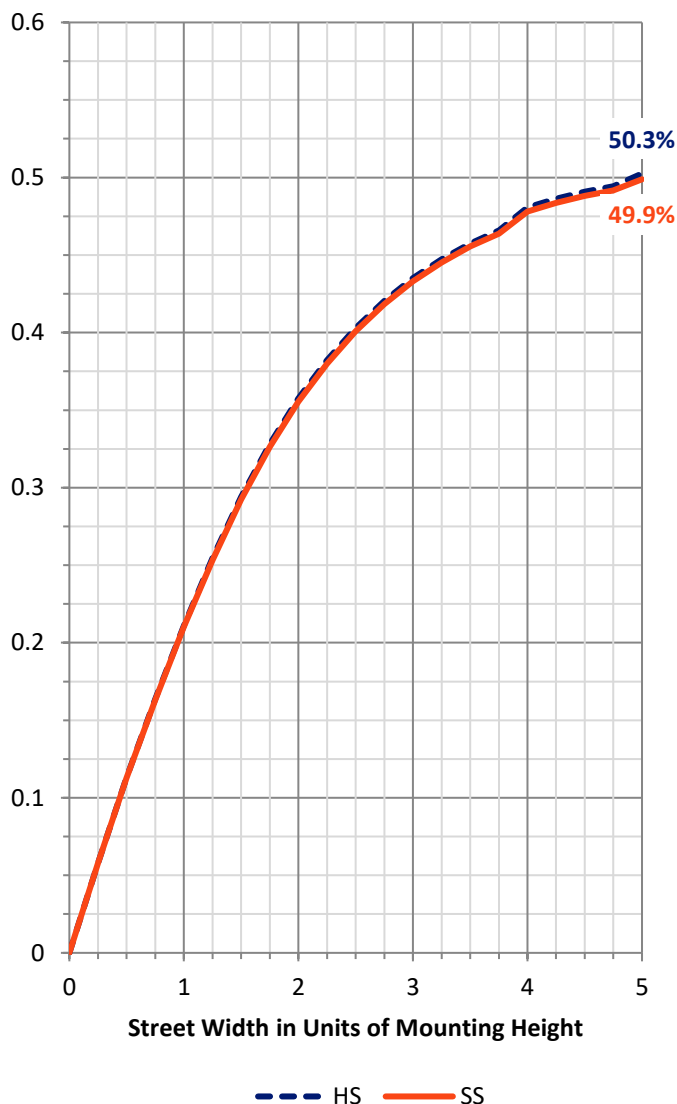
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1937.5 | 0.0 | 1937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1937.5 | 0.0 | 1937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3875.0 | 0.0 | 3875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.3 | 0.8 |
| 10°-20° | 85.8 | 2.2 |
| 20°-30° | 148.3 | 3.8 |
| 30°-40° | 227.1 | 5.9 |
| 40°-50° | 369.4 | 9.5 |
| 50°-60° | 640.7 | 16.5 |
| 60°-70° | 1061.0 | 27.4 |
| 70°-80° | 1148.0 | 29.6 |
| 80°-90° | 165.4 | 4.3 |
| 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° | 3875.0 | 100.0 |
| 0°-180° | 3875.0 | 100.0 |

Coefficient of Utilization

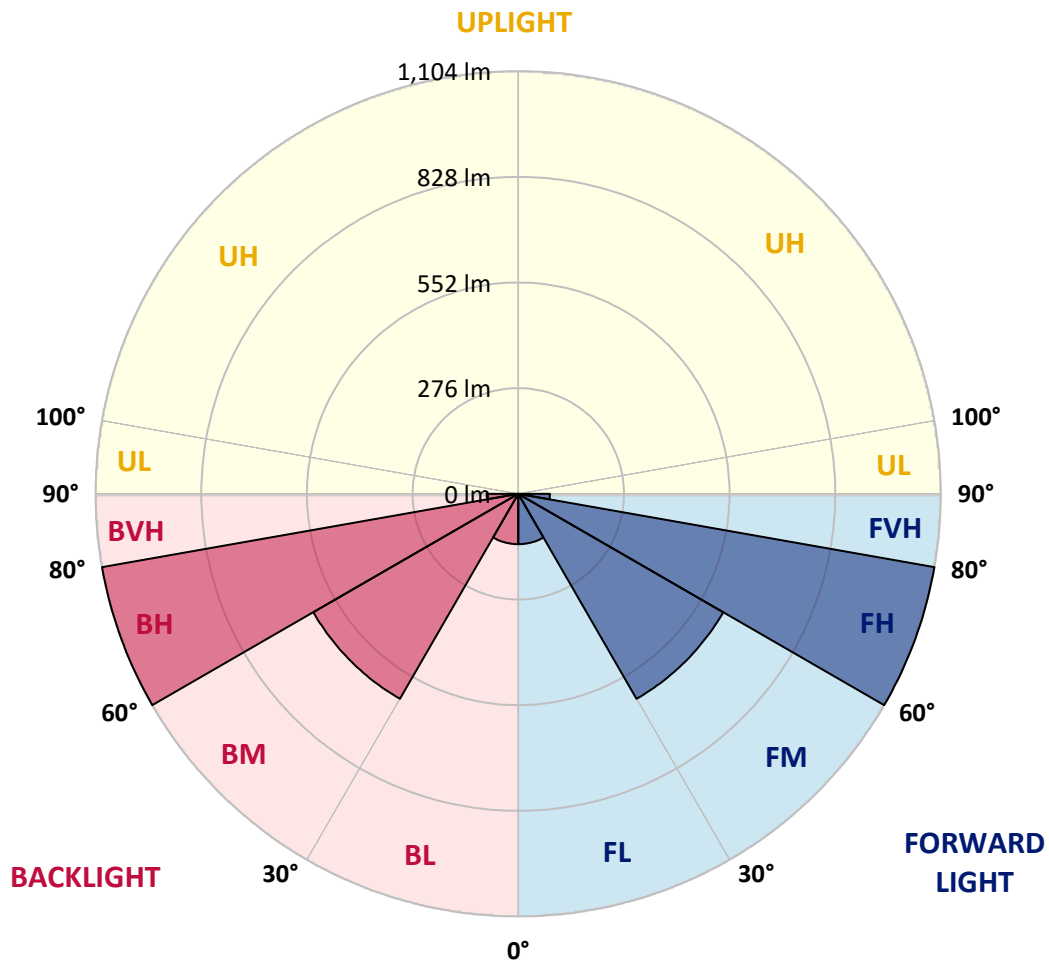


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 131.7 | 3.4 | | | |
| FM (30°-60°) | 618.6 | 16.0 | | | |
| FH (60°-80°) | 1104.5 | 28.5 | | | G1/1800 |
| FVH (80°-90°) | 82.7 | 2.1 | | | G1/100 |
| BL (0°-30°) | 131.7 | 3.4 | B1/500 | | |
| BM (30°-60°) | 618.6 | 16.0 | B1/1000 | | |
| BH (60°-80°) | 1104.5 | 28.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 82.7 | 2.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 | 319.7 |
| 2.5° | 315.1 | 316.0 | 316.0 | 315.1 | 316.0 | 316.0 | 316.0 | 316.9 | 316.0 | 317.8 | 316.9 |
| 5° | 310.5 | 310.5 | 311.4 | 310.5 | 310.5 | 311.4 | 310.5 | 312.3 | 311.4 | 313.2 | 311.4 |
| 7.5° | 303.1 | 303.1 | 303.1 | 303.1 | 304.0 | 304.0 | 304.0 | 305.9 | 305.9 | 305.9 | 304.9 |
| 10° | 301.2 | 300.3 | 300.3 | 298.5 | 298.5 | 298.5 | 297.6 | 300.3 | 301.2 | 303.1 | 302.2 |
| 12.5° | 302.2 | 302.2 | 300.3 | 298.5 | 297.6 | 296.6 | 296.6 | 299.4 | 302.2 | 303.1 | 303.1 |
| 15° | 305.9 | 305.9 | 303.1 | 299.4 | 299.4 | 299.4 | 298.5 | 299.4 | 304.0 | 305.9 | 304.0 |
| 17.5° | 308.6 | 307.7 | 304.9 | 303.1 | 303.1 | 302.2 | 302.2 | 302.2 | 304.9 | 307.7 | 307.7 |
| 20° | 313.2 | 313.2 | 309.5 | 307.7 | 307.7 | 306.8 | 305.9 | 304.9 | 307.7 | 311.4 | 310.5 |
| 22.5° | 319.7 | 317.8 | 315.1 | 313.2 | 312.3 | 311.4 | 309.5 | 310.5 | 312.3 | 315.1 | 315.1 |
| 25° | 324.3 | 324.3 | 321.5 | 320.6 | 321.5 | 321.5 | 318.8 | 316.9 | 317.8 | 320.6 | 320.6 |
| 27.5° | 326.1 | 326.1 | 324.3 | 324.3 | 328.0 | 329.8 | 326.1 | 322.4 | 320.6 | 323.4 | 322.4 |
| 30° | 333.5 | 333.5 | 331.7 | 330.7 | 333.5 | 334.4 | 332.6 | 329.8 | 328.9 | 331.7 | 330.7 |
| 32.5° | 346.4 | 345.5 | 342.7 | 339.9 | 340.9 | 345.5 | 341.8 | 340.9 | 340.9 | 343.6 | 344.5 |
| 35° | 361.1 | 359.3 | 356.5 | 353.8 | 354.7 | 359.3 | 355.6 | 355.6 | 356.5 | 360.2 | 360.2 |
| 37.5° | 382.3 | 380.5 | 376.8 | 370.3 | 369.4 | 375.0 | 374.0 | 375.0 | 378.6 | 380.5 | 382.3 |
| 40° | 405.4 | 404.4 | 399.8 | 394.3 | 393.4 | 397.1 | 398.0 | 399.8 | 403.5 | 405.4 | 406.3 |
| 42.5° | 438.5 | 436.7 | 429.3 | 423.8 | 422.9 | 427.5 | 429.3 | 431.1 | 435.8 | 437.6 | 439.4 |
| 45° | 479.1 | 478.1 | 469.8 | 463.4 | 460.6 | 467.1 | 467.1 | 468.9 | 473.5 | 477.2 | 477.2 |
| 47.5° | 523.3 | 522.4 | 515.9 | 508.5 | 509.5 | 514.1 | 513.1 | 514.1 | 517.7 | 521.4 | 524.2 |
| 50° | 573.0 | 570.3 | 562.9 | 561.0 | 565.6 | 570.3 | 566.6 | 565.6 | 571.2 | 573.0 | 572.1 |
| 52.5° | 627.4 | 624.6 | 620.9 | 620.9 | 632.0 | 640.3 | 637.5 | 629.2 | 629.2 | 628.3 | 627.4 |
| 55° | 691.9 | 690.0 | 689.1 | 693.7 | 712.1 | 728.7 | 718.6 | 702.9 | 696.5 | 692.8 | 694.6 |
| 57.5° | 759.1 | 754.5 | 762.8 | 772.9 | 809.8 | 833.7 | 818.1 | 788.6 | 779.4 | 772.0 | 768.3 |
| 60° | 827.3 | 825.4 | 837.4 | 861.4 | 913.9 | 954.4 | 933.2 | 884.4 | 867.8 | 851.2 | 851.2 |
| 62.5° | 893.6 | 891.8 | 909.3 | 946.1 | 1029.0 | 1088.9 | 1050.2 | 988.5 | 956.3 | 931.4 | 927.7 |
| 65° | 973.8 | 971.0 | 990.3 | 1030.0 | 1140.5 | 1216.1 | 1167.2 | 1086.2 | 1047.5 | 1013.4 | 1008.8 |
| 67.5° | 1039.2 | 1039.2 | 1065.0 | 1113.8 | 1234.5 | 1313.7 | 1252.9 | 1182.9 | 1137.7 | 1102.7 | 1099.1 |
| 70° | 1101.8 | 1107.3 | 1126.7 | 1174.6 | 1306.3 | 1378.2 | 1322.9 | 1260.3 | 1219.7 | 1184.7 | 1181.0 |
| 72.5° | 1128.5 | 1135.9 | 1155.3 | 1202.2 | 1337.7 | 1421.5 | 1357.0 | 1285.1 | 1241.8 | 1206.8 | 1202.2 |
| 74° | 1078.8 | 1087.1 | 1115.6 | 1175.5 | 1328.4 | 1423.3 | 1355.2 | 1260.3 | 1192.1 | 1148.8 | 1148.8 |
| 75° | 1022.6 | 1033.6 | 1067.7 | 1132.2 | 1309.1 | 1413.2 | 1335.8 | 1220.7 | 1125.8 | 1075.1 | 1077.9 |
| 77.5° | 788.6 | 812.5 | 849.4 | 950.7 | 1174.6 | 1326.6 | 1187.5 | 979.3 | 827.3 | 751.7 | 749.9 |
| 80° | 224.8 | 258.0 | 341.8 | 567.5 | 892.7 | 1056.7 | 872.4 | 579.5 | 409.0 | 311.4 | 299.4 |
| 82.5° | 54.4 | 63.6 | 87.5 | 160.3 | 381.4 | 597.0 | 432.1 | 189.8 | 114.2 | 74.6 | 59.9 |
| 85° | 23.0 | 24.9 | 39.6 | 55.3 | 105.0 | 158.5 | 100.4 | 64.5 | 47.0 | 21.2 | 20.3 |
| 87.5° | 8.3 | 9.2 | 14.7 | 14.7 | 22.1 | 12.9 | 23.0 | 15.7 | 16.6 | 5.5 | 5.5 |
| 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)