

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: P647693

Luminaire Tested: **GALN-SA1A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.4 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

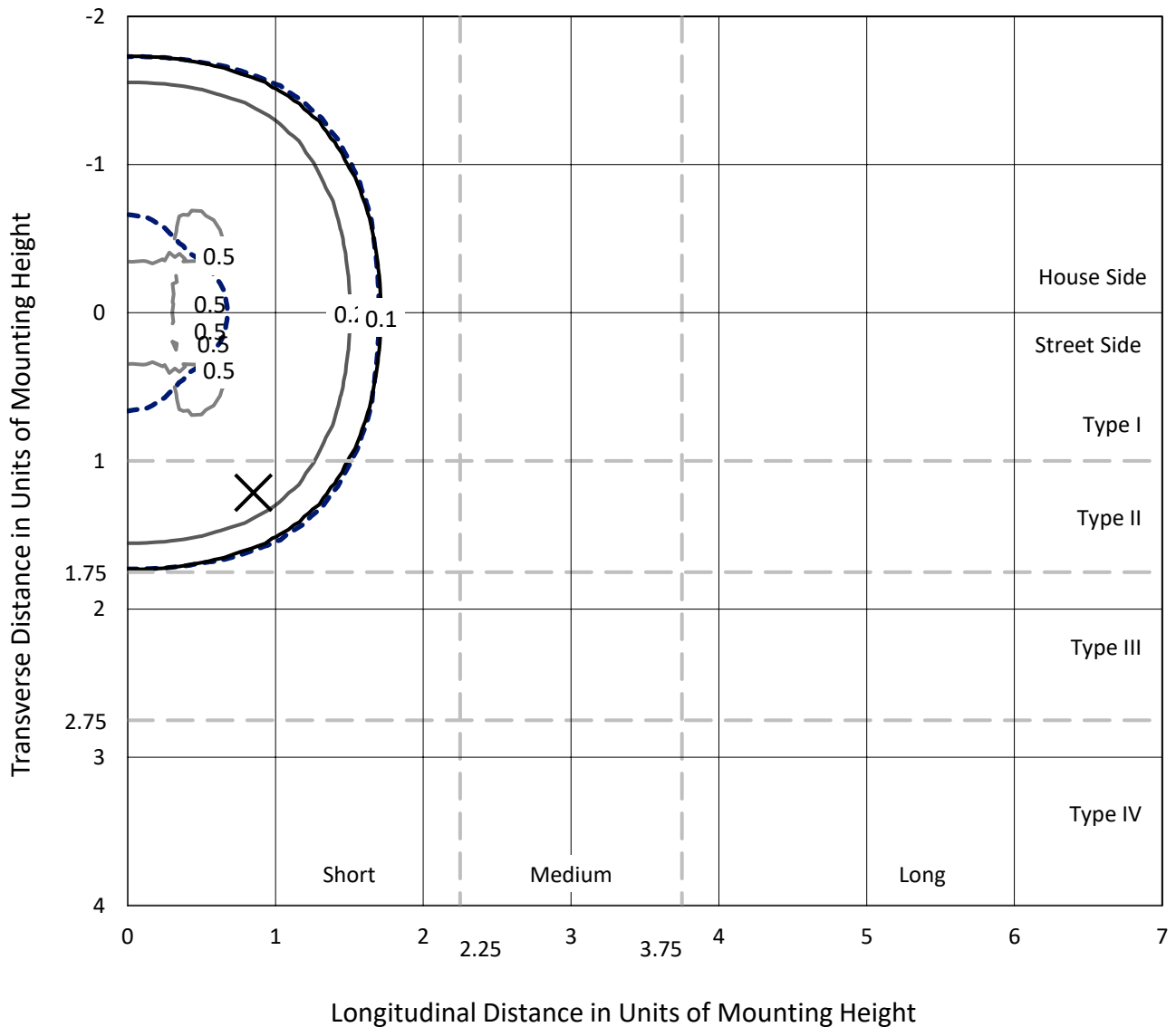
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

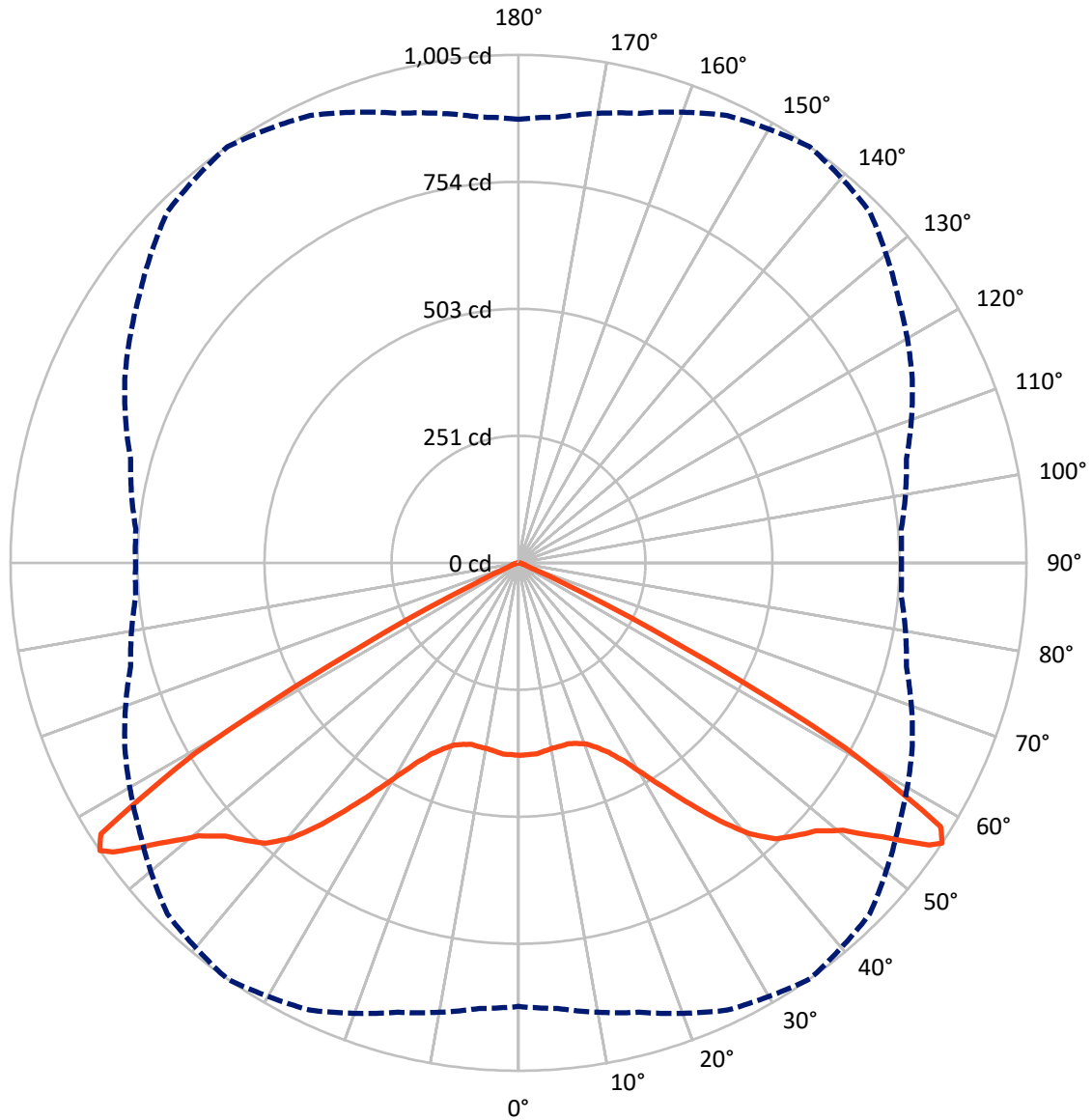
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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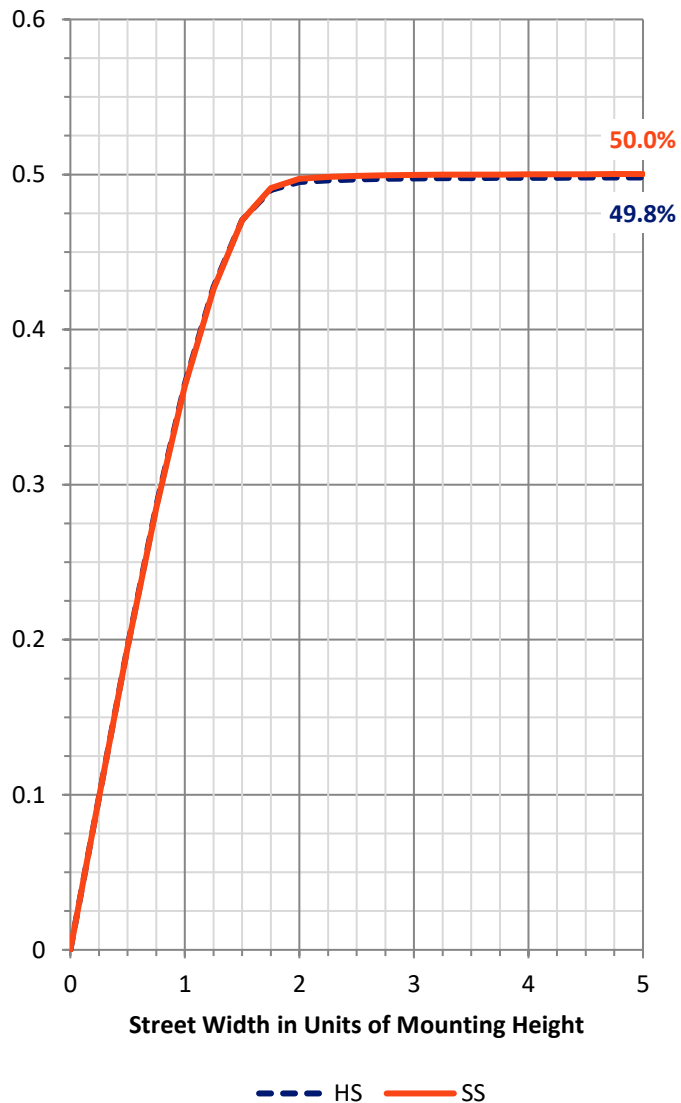
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1087.2 | 0.0 | 1087.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1087.2 | 0.0 | 1087.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2174.4 | 0.0 | 2174.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.8 | 1.6 |
| 10°-20° | 104.5 | 4.8 |
| 20°-30° | 189.3 | 8.7 |
| 30°-40° | 351.1 | 16.1 |
| 40°-50° | 576.2 | 26.5 |
| 50°-60° | 742.3 | 34.1 |
| 60°-70° | 163.6 | 7.5 |
| 70°-80° | 9.5 | 0.4 |
| 80°-90° | 2.0 | 0.1 |
| 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° | 2174.4 | 100.0 |
| 0°-180° | 2174.4 | 100.0 |

Coefficient of Utilization

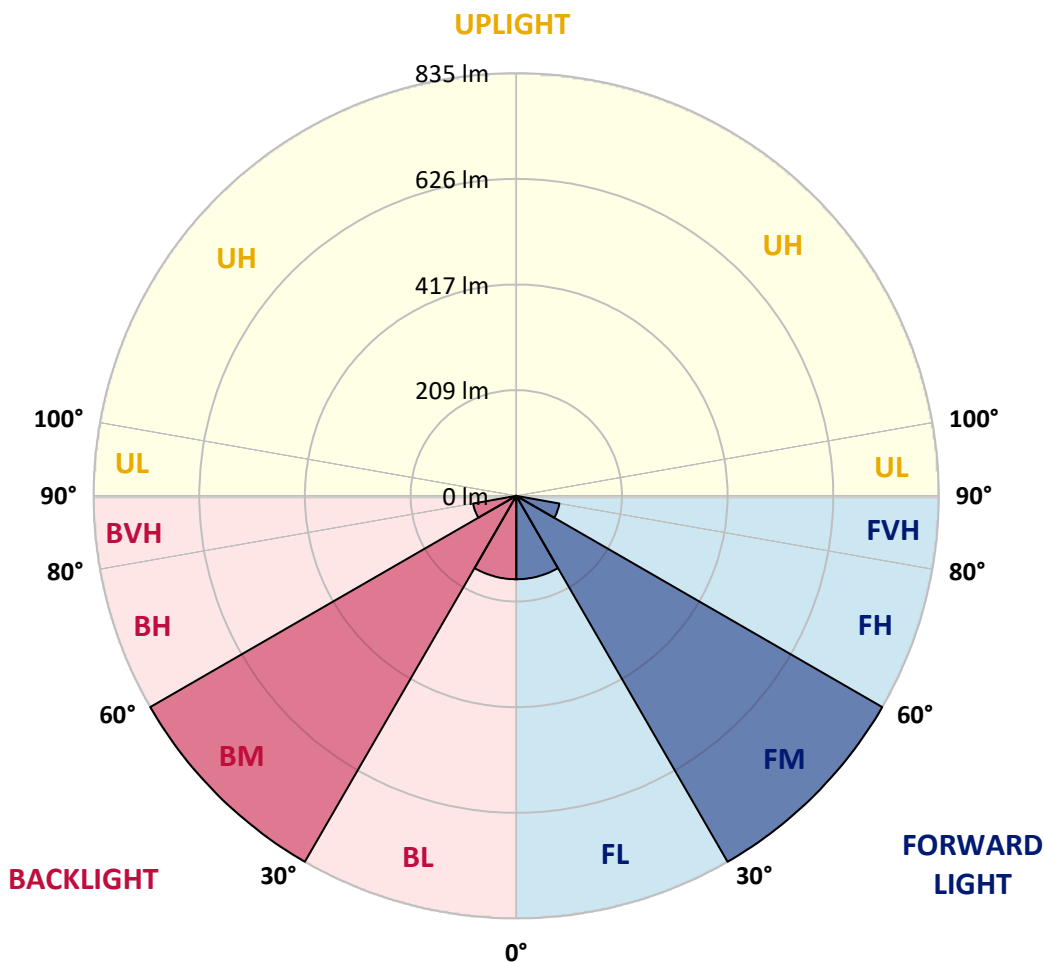


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 164.8 | 7.6 | | | |
| FM (30°-60°) | 834.8 | 38.4 | | | |
| FH (60°-80°) | 86.5 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 164.8 | 7.6 | B1/500 | | |
| BM (30°-60°) | 834.8 | 38.4 | B1/1000 | | |
| BH (60°-80°) | 86.5 | 4.0 | B0/110 | | G0/660 |
| BVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 2.5° | 381.8 | 381.8 | 382.2 | 382.6 | 379.8 | 378.7 | 379.1 | 378.3 | 377.9 | 379.1 | 379.1 |
| 5° | 380.6 | 380.6 | 379.4 | 379.8 | 379.8 | 376.3 | 376.3 | 377.1 | 377.1 | 374.7 | 373.9 |
| 7.5° | 377.5 | 376.7 | 375.1 | 377.1 | 375.8 | 373.1 | 371.1 | 370.4 | 371.9 | 371.9 | 370.4 |
| 10° | 370.8 | 371.1 | 372.7 | 373.5 | 372.7 | 375.1 | 370.4 | 367.6 | 364.9 | 363.6 | 363.6 |
| 12.5° | 367.6 | 370.0 | 367.6 | 369.6 | 372.3 | 370.4 | 367.6 | 365.7 | 361.7 | 360.1 | 360.1 |
| 15° | 367.2 | 368.8 | 369.6 | 372.3 | 371.1 | 371.9 | 366.4 | 364.1 | 358.1 | 355.4 | 354.2 |
| 17.5° | 366.8 | 368.8 | 370.0 | 375.1 | 375.8 | 376.3 | 371.9 | 364.9 | 359.7 | 357.0 | 354.2 |
| 20° | 371.1 | 371.9 | 374.3 | 379.4 | 382.6 | 388.1 | 380.2 | 372.7 | 361.7 | 358.5 | 357.4 |
| 22.5° | 376.7 | 380.6 | 383.0 | 388.5 | 396.7 | 401.5 | 391.3 | 381.8 | 370.4 | 366.4 | 361.7 |
| 25° | 394.4 | 393.6 | 397.5 | 409.0 | 415.7 | 419.2 | 410.9 | 397.1 | 382.2 | 377.5 | 378.3 |
| 27.5° | 416.5 | 417.3 | 420.8 | 433.4 | 443.3 | 448.7 | 438.9 | 420.8 | 406.2 | 398.3 | 397.5 |
| 30° | 445.2 | 444.4 | 448.3 | 465.3 | 483.0 | 491.3 | 473.9 | 452.7 | 438.6 | 428.3 | 430.6 |
| 32.5° | 475.6 | 476.0 | 486.9 | 502.4 | 531.1 | 547.2 | 519.3 | 493.3 | 472.0 | 464.9 | 461.3 |
| 35° | 520.5 | 522.4 | 531.1 | 554.8 | 586.7 | 607.5 | 576.8 | 545.7 | 521.2 | 508.2 | 509.8 |
| 37.5° | 576.1 | 574.1 | 588.7 | 614.3 | 647.8 | 663.1 | 637.1 | 601.7 | 576.8 | 568.1 | 573.7 |
| 40° | 635.2 | 637.1 | 644.6 | 667.8 | 705.2 | 715.5 | 676.9 | 657.6 | 636.0 | 631.6 | 638.3 |
| 42.5° | 694.2 | 693.0 | 698.6 | 719.4 | 746.7 | 739.5 | 716.7 | 705.2 | 689.9 | 681.2 | 690.3 |
| 45° | 737.6 | 735.6 | 745.8 | 760.1 | 769.8 | 756.5 | 746.3 | 742.3 | 734.5 | 725.0 | 733.2 |
| 47.5° | 779.7 | 778.1 | 788.0 | 791.9 | 792.7 | 775.0 | 777.0 | 784.1 | 764.4 | 744.6 | 754.1 |
| 50° | 815.6 | 812.8 | 825.0 | 833.7 | 831.7 | 803.4 | 810.5 | 803.4 | 772.7 | 749.4 | 745.8 |
| 52.5° | 875.5 | 876.6 | 889.6 | 905.4 | 900.7 | 877.0 | 866.8 | 834.5 | 795.1 | 774.2 | 762.0 |
| 55° | 913.3 | 907.4 | 929.8 | 979.8 | 985.4 | 961.0 | 915.6 | 868.0 | 808.9 | 783.3 | 780.1 |
| 56° | 877.8 | 885.3 | 920.8 | 976.7 | 1005.1 | 982.7 | 916.8 | 859.7 | 794.7 | 760.1 | 757.6 |
| 57.5° | 787.6 | 783.7 | 831.7 | 908.2 | 985.4 | 975.9 | 884.6 | 800.6 | 725.0 | 686.0 | 681.2 |
| 60° | 490.2 | 501.6 | 543.7 | 638.3 | 741.5 | 746.3 | 655.6 | 583.5 | 495.2 | 460.6 | 468.9 |
| 62.5° | 191.9 | 182.0 | 208.4 | 279.0 | 349.8 | 365.7 | 331.4 | 275.4 | 226.1 | 191.9 | 189.5 |
| 65° | 44.6 | 43.4 | 48.9 | 67.3 | 94.2 | 109.2 | 103.6 | 74.5 | 54.7 | 52.0 | 48.1 |
| 67.5° | 25.2 | 25.2 | 24.0 | 24.0 | 26.4 | 28.0 | 26.8 | 26.4 | 27.6 | 28.7 | 28.3 |
| 70° | 17.7 | 17.3 | 16.5 | 16.9 | 16.1 | 16.1 | 17.3 | 19.3 | 20.9 | 20.9 | 21.3 |
| 72.5° | 10.6 | 10.6 | 10.6 | 11.8 | 11.8 | 11.8 | 13.0 | 14.6 | 15.0 | 14.6 | 14.2 |
| 75° | 4.7 | 4.7 | 5.5 | 6.7 | 7.5 | 7.9 | 9.1 | 9.9 | 10.6 | 9.9 | 9.1 |
| 77.5° | 1.2 | 1.2 | 2.0 | 2.7 | 3.5 | 4.3 | 5.9 | 7.1 | 7.5 | 7.1 | 5.9 |
| 80° | 0.4 | 0.4 | 0.8 | 2.0 | 3.5 | 4.3 | 5.9 | 6.3 | 6.7 | 5.9 | 4.7 |
| 82.5° | 0.4 | 0.4 | 0.8 | 2.0 | 2.7 | 3.5 | 4.7 | 5.5 | 5.9 | 5.1 | 4.7 |
| 85° | 0.0 | 0.4 | 0.8 | 1.6 | 2.3 | 3.1 | 3.1 | 2.3 | 2.0 | 1.2 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.4 | 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)