

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: P526301

Luminaire Tested: **GALN-SA1B-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2735 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

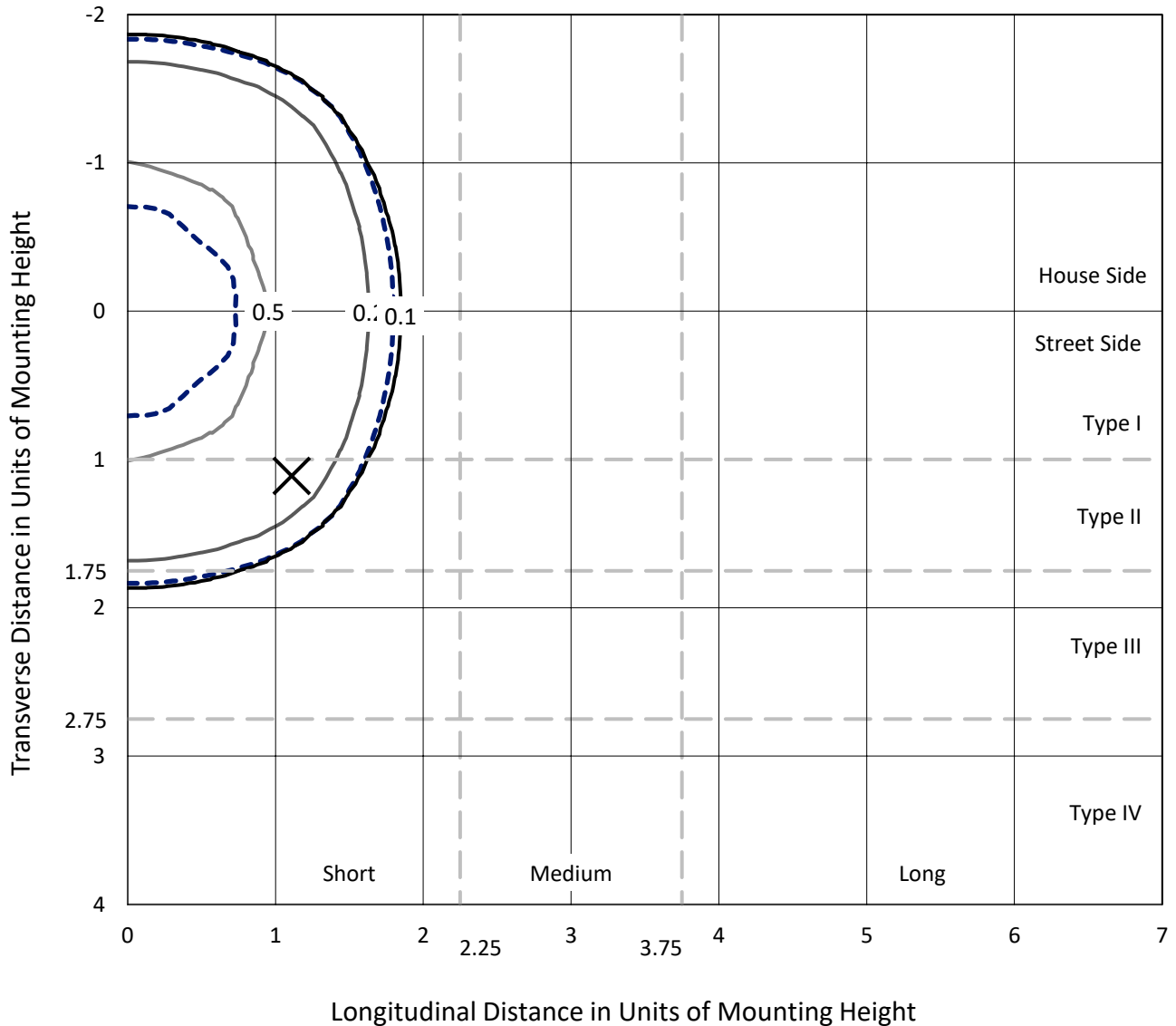
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

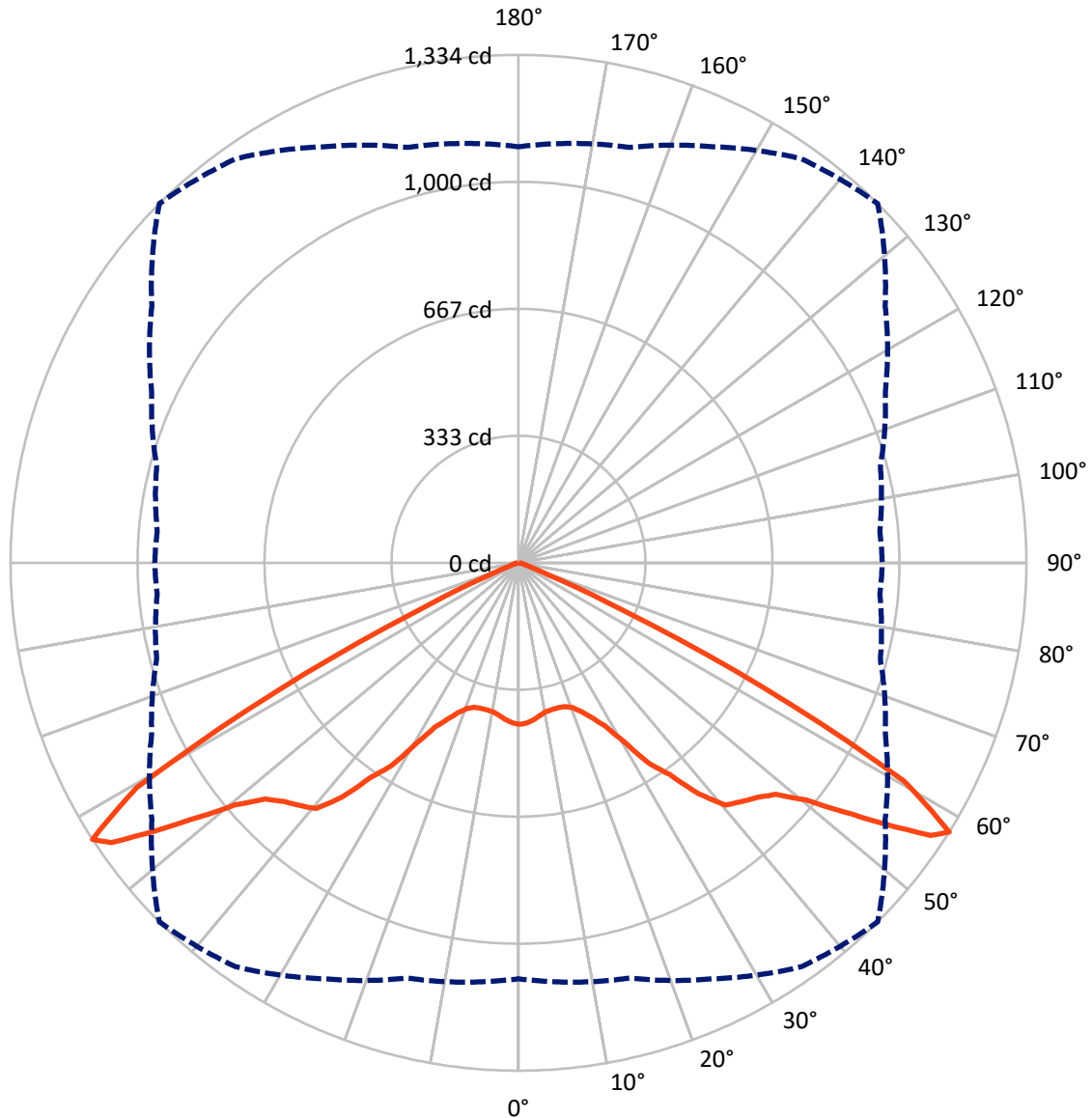
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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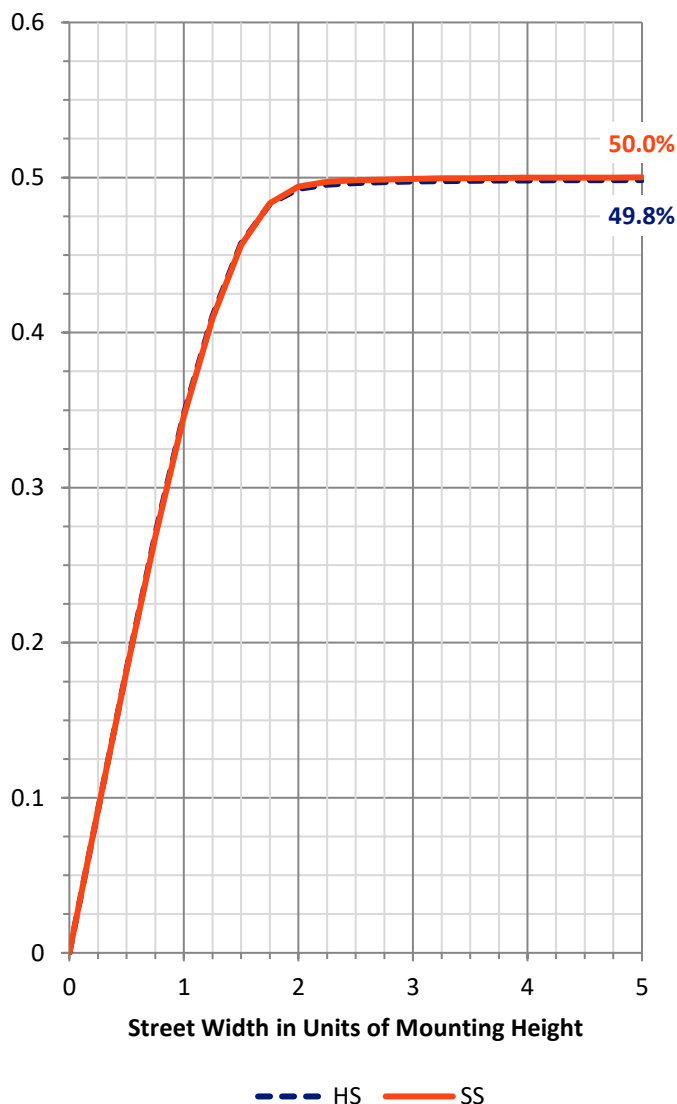
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1367.5   | 0.0    | 1367.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1367.5   | 0.0    | 1367.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2735.0   | 0.0    | 2735.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.0   | 1.4       |
| 10°-20°   | 112.7  | 4.1       |
| 20°-30°   | 208.0  | 7.6       |
| 30°-40°   | 409.1  | 15.0      |
| 40°-50°   | 666.2  | 24.4      |
| 50°-60°   | 950.1  | 34.7      |
| 60°-70°   | 329.0  | 12.0      |
| 70°-80°   | 17.6   | 0.6       |
| 80°-90°   | 3.3    | 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°    | 2735.0 | 100.0     |
| 0°-180°   | 2735.0 | 100.0     |

**Coefficient of Utilization**



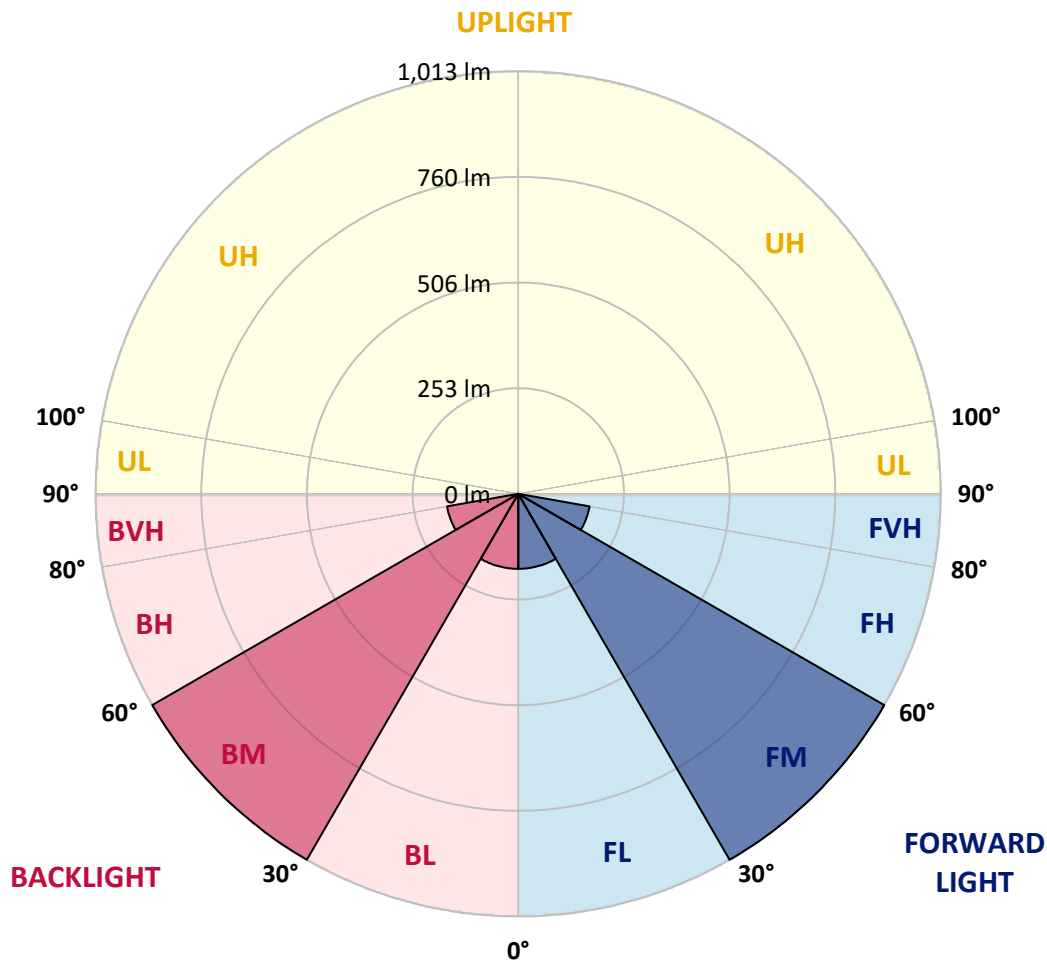
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 179.8  | 6.6       |                         |      |        |
| FM (30°-60°)   | 1012.7 | 37.0      |                         |      |        |
| FH (60°-80°)   | 173.3  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 1.7    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 179.8  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1012.7 | 37.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 173.3  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 1.7    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°   | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 424.2  | 424.2  | 424.2  | 424.2  | 424.2  | 424.2  | 424.2  | 424.2  | 424.2  | 424.2 | 424.2 |
| 2.5°  | 423.1  | 425.4  | 422.5  | 421.4  | 420.8  | 420.8  | 419.1  | 419.1  | 418.5  | 419.1 | 416.8 |
| 5°    | 416.2  | 418.5  | 418.5  | 418.0  | 414.5  | 414.0  | 412.3  | 411.1  | 411.7  | 409.4 | 411.1 |
| 7.5°  | 409.4  | 411.1  | 408.8  | 408.3  | 407.1  | 404.8  | 404.3  | 399.1  | 399.7  | 399.7 | 400.8 |
| 10°   | 408.3  | 407.7  | 404.3  | 401.4  | 398.0  | 397.4  | 395.7  | 394.6  | 394.6  | 394.0 | 395.7 |
| 12.5° | 408.3  | 405.4  | 404.8  | 398.6  | 392.9  | 395.1  | 390.6  | 387.7  | 391.7  | 392.9 | 395.1 |
| 15°   | 407.7  | 410.5  | 400.8  | 398.0  | 394.0  | 394.6  | 390.6  | 387.7  | 390.0  | 391.2 | 392.9 |
| 17.5° | 411.1  | 409.4  | 406.6  | 400.8  | 399.1  | 396.9  | 391.7  | 389.4  | 389.4  | 392.3 | 392.9 |
| 20°   | 420.2  | 415.7  | 410.0  | 407.1  | 408.8  | 406.0  | 399.7  | 391.2  | 393.4  | 395.7 | 397.4 |
| 22.5° | 428.8  | 425.4  | 421.4  | 419.7  | 429.4  | 424.8  | 414.0  | 404.3  | 400.8  | 404.8 | 407.7 |
| 25°   | 445.3  | 445.3  | 437.9  | 440.2  | 451.0  | 451.6  | 439.1  | 421.9  | 419.7  | 421.4 | 422.5 |
| 27.5° | 479.0  | 480.7  | 474.4  | 476.7  | 481.2  | 485.2  | 474.4  | 460.1  | 455.0  | 454.4 | 456.2 |
| 30°   | 515.5  | 518.9  | 518.3  | 528.0  | 541.1  | 543.4  | 527.4  | 504.1  | 488.7  | 485.8 | 488.1 |
| 32.5° | 563.4  | 565.1  | 563.9  | 575.3  | 610.7  | 627.2  | 585.6  | 552.5  | 532.0  | 537.1 | 532.0 |
| 35°   | 653.4  | 651.7  | 639.2  | 641.5  | 670.6  | 682.5  | 642.6  | 621.5  | 611.8  | 622.1 | 619.8 |
| 37.5° | 731.0  | 724.7  | 714.5  | 729.3  | 759.5  | 770.3  | 728.7  | 691.6  | 674.0  | 691.1 | 698.5 |
| 40°   | 796.6  | 780.6  | 766.3  | 781.2  | 821.7  | 836.5  | 775.5  | 745.2  | 738.4  | 751.0 | 766.9 |
| 42.5° | 851.9  | 841.6  | 822.8  | 823.9  | 850.7  | 857.6  | 808.5  | 790.9  | 784.0  | 804.0 | 812.0 |
| 45°   | 891.2  | 881.5  | 863.8  | 862.7  | 883.2  | 878.7  | 834.8  | 822.8  | 826.8  | 839.9 | 843.9 |
| 47.5° | 911.2  | 916.3  | 906.0  | 908.9  | 919.7  | 908.9  | 874.1  | 874.1  | 865.0  | 873.0 | 869.0 |
| 50°   | 968.8  | 952.8  | 965.9  | 965.9  | 977.3  | 978.5  | 943.7  | 931.1  | 906.6  | 892.9 | 892.9 |
| 52.5° | 1036.0 | 1037.2 | 1042.3 | 1061.1 | 1080.5 | 1097.1 | 1047.5 | 993.9  | 952.8  | 935.1 | 932.8 |
| 55°   | 1091.4 | 1102.8 | 1123.3 | 1158.6 | 1214.5 | 1237.3 | 1151.8 | 1056.0 | 1005.8 | 978.5 | 972.8 |
| 56°   | 1121.6 | 1110.7 | 1146.1 | 1194.6 | 1267.5 | 1297.2 | 1168.9 | 1068.6 | 1013.2 | 982.5 | 981.9 |
| 57.5° | 1092.5 | 1104.5 | 1129.0 | 1205.4 | 1294.9 | 1333.7 | 1175.2 | 1062.8 | 983.6  | 952.2 | 955.1 |
| 60°   | 862.7  | 874.1  | 907.2  | 992.7  | 1133.0 | 1163.2 | 994.4  | 876.4  | 805.7  | 760.6 | 761.2 |
| 62.5° | 488.1  | 496.6  | 522.3  | 601.6  | 688.8  | 717.9  | 619.8  | 541.1  | 492.1  | 467.0 | 459.0 |
| 65°   | 179.6  | 176.2  | 180.2  | 220.7  | 274.3  | 298.8  | 257.7  | 217.8  | 192.2  | 183.0 | 179.6 |
| 67.5° | 67.3   | 62.2   | 58.2   | 62.2   | 78.1   | 82.7   | 75.8   | 63.3   | 59.3   | 61.0  | 62.2  |
| 70°   | 41.6   | 39.3   | 31.4   | 29.7   | 29.1   | 28.5   | 30.2   | 31.9   | 36.5   | 42.8  | 43.9  |
| 72.5° | 29.1   | 27.4   | 22.2   | 21.1   | 20.0   | 19.4   | 22.2   | 24.5   | 28.5   | 33.1  | 33.6  |
| 75°   | 11.4   | 12.0   | 11.4   | 12.5   | 13.1   | 13.7   | 16.0   | 17.7   | 19.4   | 19.4  | 18.8  |
| 77.5° | 2.3    | 2.3    | 3.4    | 4.6    | 5.7    | 7.4    | 10.8   | 12.5   | 13.1   | 12.5  | 10.8  |
| 80°   | 0.0    | 0.0    | 1.1    | 2.3    | 4.6    | 6.3    | 9.7    | 10.8   | 12.0   | 10.8  | 8.6   |
| 82.5° | 0.0    | 0.0    | 1.1    | 2.9    | 4.6    | 5.7    | 9.1    | 11.4   | 13.1   | 12.0  | 9.1   |
| 85°   | 0.0    | 0.0    | 1.1    | 2.3    | 3.4    | 4.0    | 4.0    | 2.9    | 2.9    | 1.7   | 1.1   |
| 87.5° | 0.0    | 0.0    | 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)