

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: P197632

Luminaire Tested: **TT-C1-LED-E1-MQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33410)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C1-LED-E1-MQ-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM DISTRIBUTION  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3631.3 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 28  
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: 25 FT



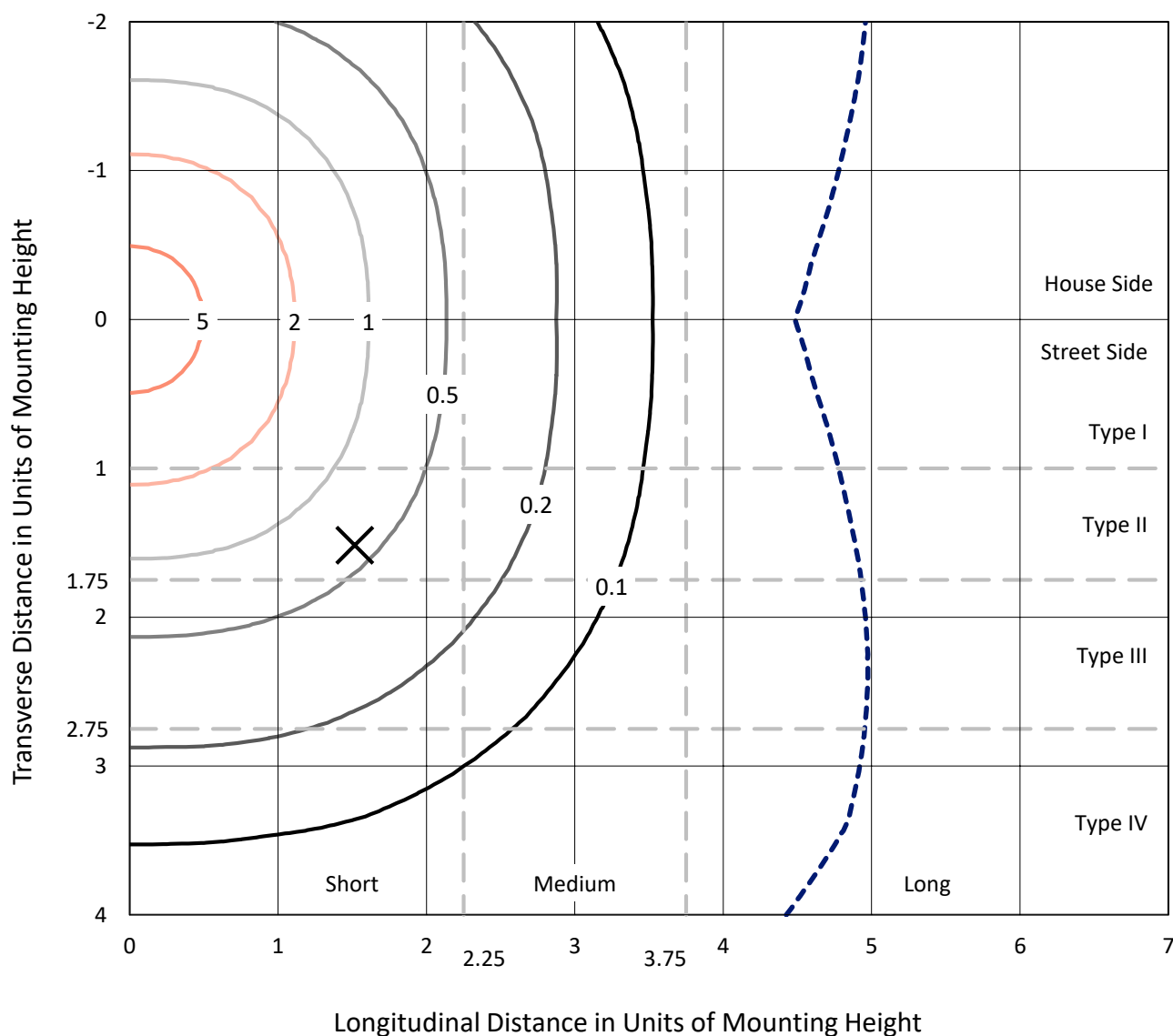
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

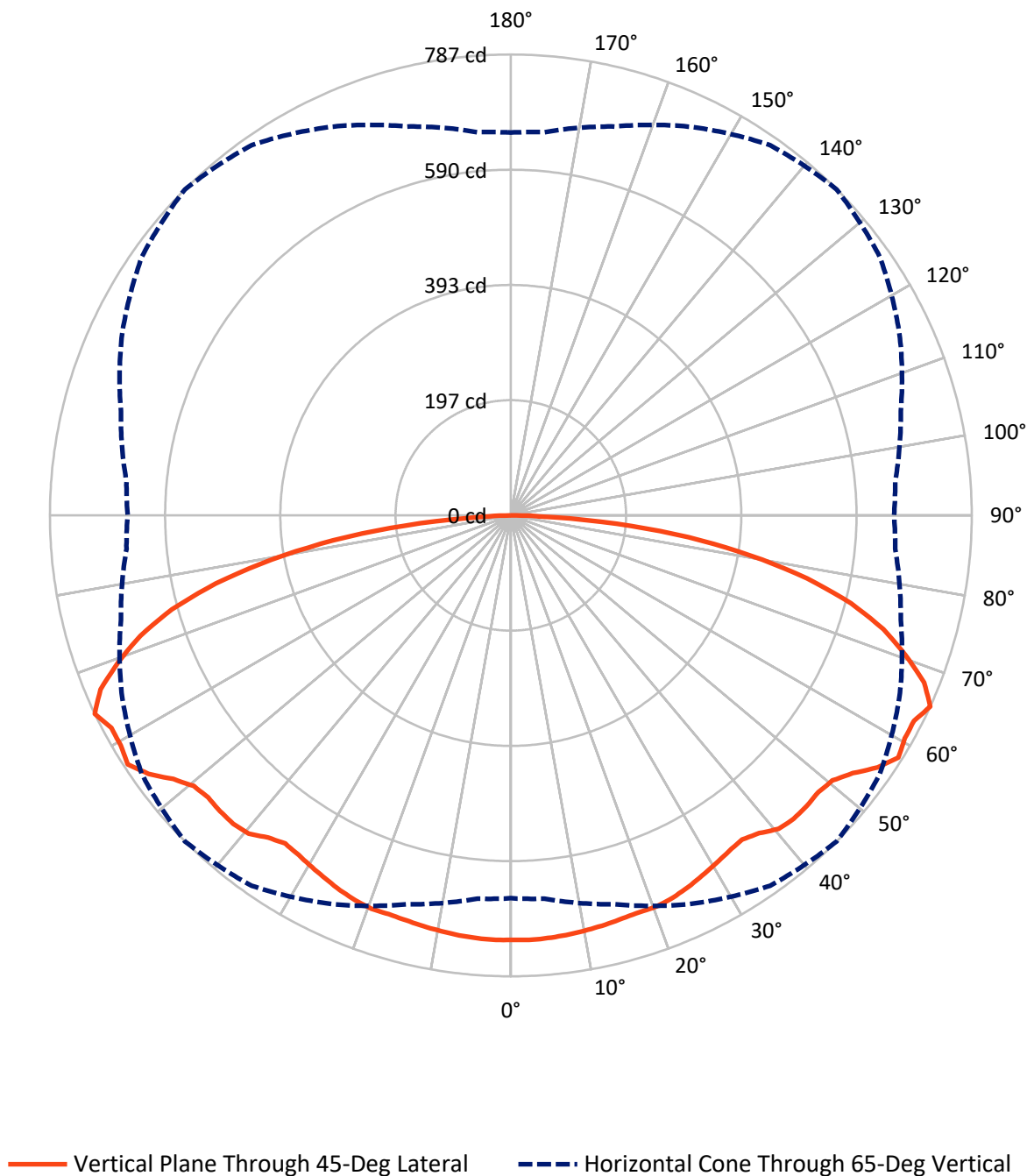


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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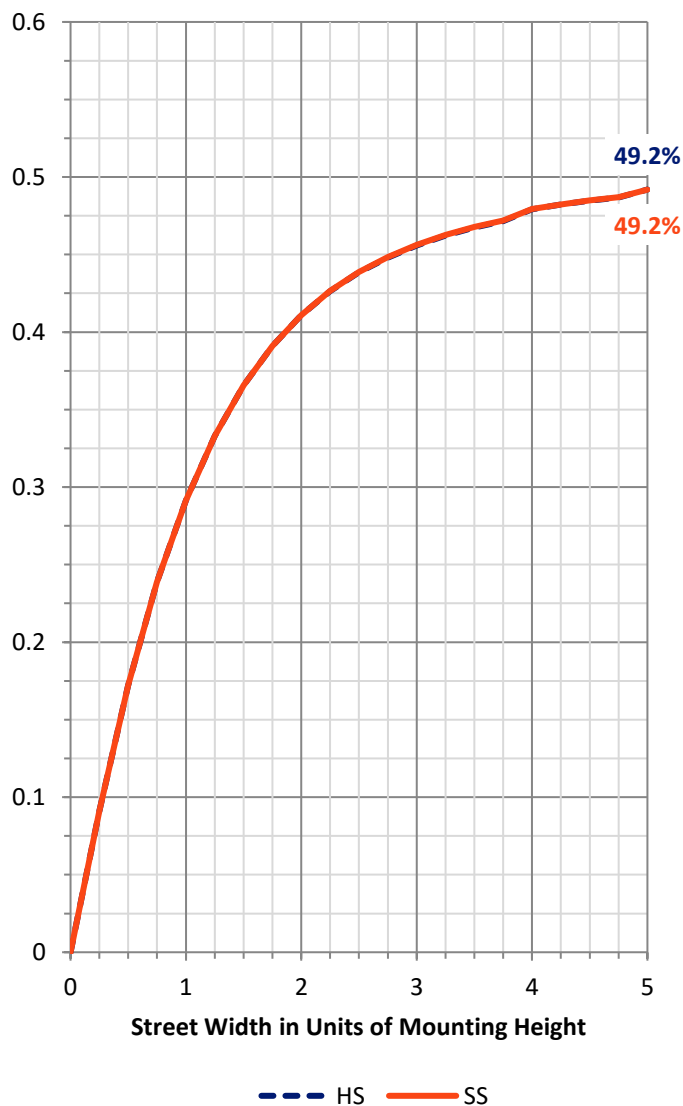
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1815.7   | 0.0    | 1815.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1815.7   | 0.0    | 1815.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3631.3   | 0.0    | 3631.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.0   | 1.9       |
| 10°-20°   | 202.3  | 5.6       |
| 20°-30°   | 323.6  | 8.9       |
| 30°-40°   | 427.5  | 11.8      |
| 40°-50°   | 534.4  | 14.7      |
| 50°-60°   | 641.5  | 17.7      |
| 60°-70°   | 701.2  | 19.3      |
| 70°-80°   | 557.2  | 15.3      |
| 80°-90°   | 174.7  | 4.8       |
| 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°    | 3631.3 | 100.0     |
| 0°-180°   | 3631.3 | 100.0     |

**Coefficient of Utilization**



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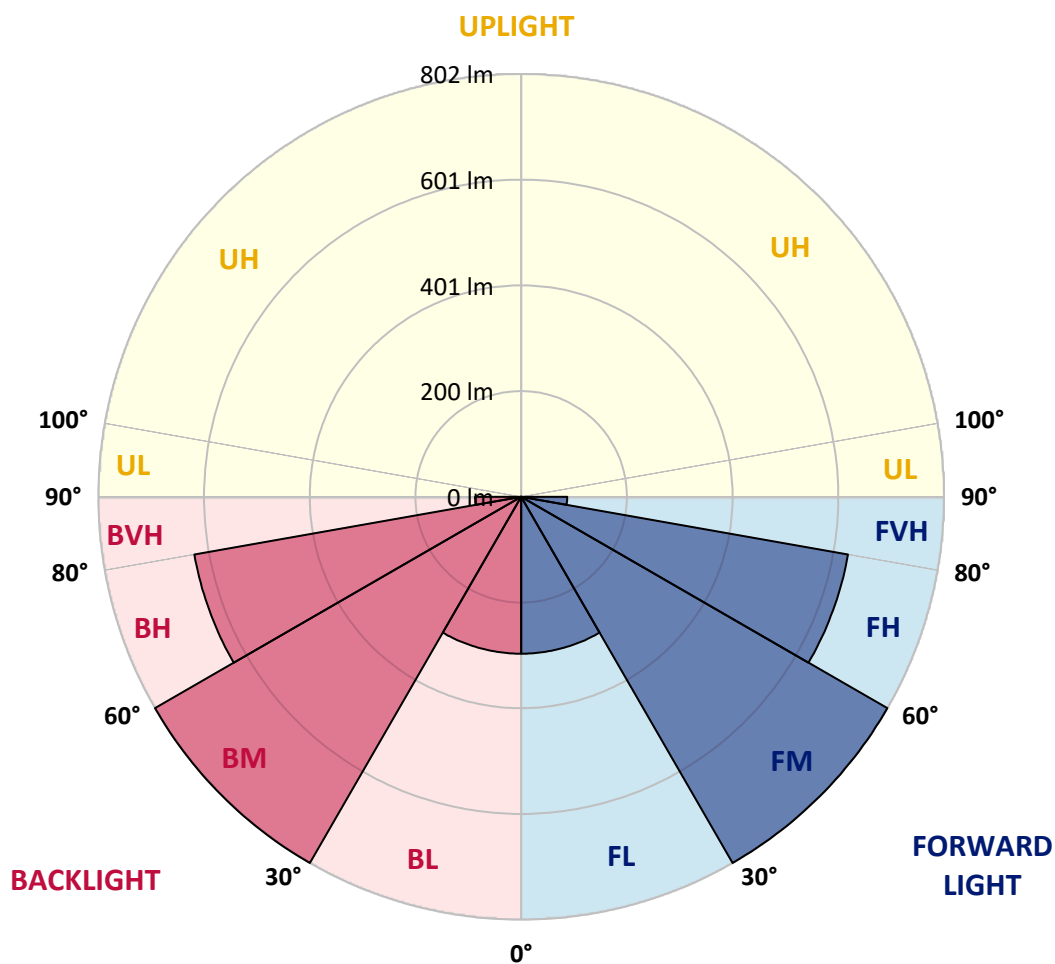
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 297.4  | 8.2       |                         |      |        |
| FM   | (30°-60°)   | 801.7  | 22.1      |                         |      |        |
| FH   | (60°-80°)   | 629.2  | 17.3      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 87.3   | 2.4       |                         |      | G1/100 |
| BL   | (0°-30°)    | 297.4  | 8.2       | B1/500                  |      |        |
| BM   | (30°-60°)   | 801.7  | 22.1      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 629.2  | 17.3      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 87.3   | 2.4       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 | 724.5 |
| 2.5°  | 725.1 | 725.1 | 725.1 | 725.1 | 724.5 | 725.1 | 724.5 | 724.5 | 725.1 | 725.1 | 725.1 |
| 5°    | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 |
| 7.5°  | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 | 722.0 |
| 10°   | 719.4 | 720.1 | 720.1 | 720.1 | 719.4 | 719.4 | 719.4 | 720.1 | 720.1 | 719.4 | 719.4 |
| 12.5° | 716.9 | 716.9 | 717.5 | 716.9 | 716.9 | 716.9 | 716.9 | 716.9 | 716.9 | 716.9 | 716.2 |
| 15°   | 713.1 | 713.1 | 713.7 | 713.7 | 713.7 | 713.7 | 713.7 | 713.1 | 713.1 | 712.4 | 712.4 |
| 17.5° | 709.9 | 709.9 | 711.2 | 711.2 | 711.8 | 711.8 | 711.8 | 710.5 | 710.5 | 709.3 | 709.3 |
| 20°   | 709.3 | 709.3 | 709.9 | 711.2 | 711.8 | 712.4 | 711.8 | 710.5 | 709.3 | 708.0 | 708.0 |
| 22.5° | 704.8 | 705.5 | 706.7 | 707.4 | 708.6 | 708.6 | 708.6 | 706.7 | 706.1 | 704.8 | 704.8 |
| 25°   | 699.1 | 698.5 | 700.4 | 701.7 | 702.9 | 702.9 | 702.3 | 701.0 | 700.4 | 698.5 | 698.5 |
| 27.5° | 690.2 | 690.9 | 692.1 | 694.0 | 695.9 | 695.9 | 695.3 | 694.0 | 692.8 | 691.5 | 690.9 |
| 30°   | 682.6 | 683.3 | 684.5 | 686.4 | 687.7 | 689.6 | 687.7 | 686.4 | 684.5 | 683.9 | 683.3 |
| 32.5° | 674.4 | 675.0 | 676.9 | 680.1 | 682.0 | 683.3 | 682.0 | 680.7 | 677.5 | 675.6 | 675.0 |
| 35°   | 668.7 | 669.3 | 671.2 | 675.6 | 679.5 | 679.5 | 679.5 | 676.3 | 672.5 | 669.3 | 668.7 |
| 37.5° | 669.3 | 670.6 | 675.0 | 681.4 | 687.7 | 688.3 | 687.7 | 681.4 | 675.6 | 670.6 | 669.9 |
| 40°   | 674.4 | 675.6 | 683.3 | 692.8 | 701.0 | 703.6 | 701.7 | 692.8 | 683.9 | 676.9 | 675.0 |
| 42.5° | 673.7 | 675.6 | 683.9 | 695.9 | 704.2 | 708.0 | 704.2 | 695.9 | 685.2 | 677.5 | 675.0 |
| 45°   | 671.2 | 672.5 | 681.4 | 694.0 | 704.2 | 708.0 | 704.8 | 695.3 | 683.3 | 674.4 | 672.5 |
| 47.5° | 667.4 | 668.7 | 675.6 | 690.9 | 702.3 | 706.1 | 702.9 | 692.8 | 677.5 | 670.6 | 669.3 |
| 50°   | 662.3 | 666.1 | 677.5 | 693.4 | 708.6 | 711.2 | 709.3 | 694.7 | 678.8 | 668.7 | 663.6 |
| 52.5° | 667.4 | 666.8 | 680.1 | 708.6 | 722.6 | 730.8 | 724.5 | 707.4 | 683.3 | 669.9 | 668.7 |
| 55°   | 678.8 | 683.9 | 698.5 | 725.1 | 748.0 | 759.4 | 750.5 | 727.0 | 699.8 | 683.3 | 680.1 |
| 57.5° | 678.2 | 684.5 | 710.5 | 737.2 | 772.1 | 779.7 | 769.5 | 740.4 | 709.3 | 687.7 | 679.5 |
| 60°   | 674.4 | 676.9 | 696.6 | 744.2 | 763.8 | 772.7 | 763.8 | 741.0 | 701.7 | 677.5 | 677.5 |
| 62.5° | 661.7 | 666.1 | 697.2 | 730.2 | 758.1 | 772.1 | 761.3 | 732.7 | 696.6 | 670.6 | 662.3 |
| 65°   | 653.4 | 656.6 | 687.1 | 731.5 | 771.4 | 786.7 | 768.9 | 732.1 | 689.0 | 658.5 | 654.1 |
| 67.5° | 627.4 | 633.1 | 661.7 | 709.9 | 748.6 | 760.7 | 753.7 | 708.6 | 661.7 | 633.8 | 626.8 |
| 70°   | 583.0 | 586.2 | 625.5 | 671.2 | 706.7 | 715.0 | 704.8 | 675.6 | 621.7 | 590.6 | 581.1 |
| 72.5° | 528.5 | 532.9 | 569.1 | 619.8 | 654.1 | 664.9 | 652.8 | 621.7 | 565.9 | 538.0 | 529.1 |
| 75°   | 473.3 | 477.7 | 501.2 | 556.4 | 584.9 | 600.1 | 586.2 | 552.6 | 502.5 | 475.2 | 471.4 |
| 77.5° | 394.0 | 400.9 | 437.1 | 473.9 | 501.2 | 517.0 | 505.0 | 473.9 | 434.6 | 402.2 | 390.2 |
| 80°   | 309.6 | 314.7 | 348.3 | 380.6 | 405.4 | 415.5 | 409.8 | 380.6 | 348.9 | 315.9 | 310.2 |
| 82.5° | 217.0 | 220.1 | 249.3 | 275.3 | 305.8 | 305.8 | 299.4 | 280.4 | 248.7 | 220.1 | 221.4 |
| 85°   | 116.1 | 119.9 | 142.1 | 162.4 | 181.4 | 181.4 | 175.7 | 163.7 | 141.5 | 119.3 | 116.7 |
| 87.5° | 23.5  | 26.0  | 34.3  | 37.4  | 44.4  | 47.6  | 43.1  | 39.3  | 34.3  | 27.3  | 27.3  |
| 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)