

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: P197560

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33411)  
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-CQ-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
CONCENTRATED DISTRIBUTION  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3685.9 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B1 - 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

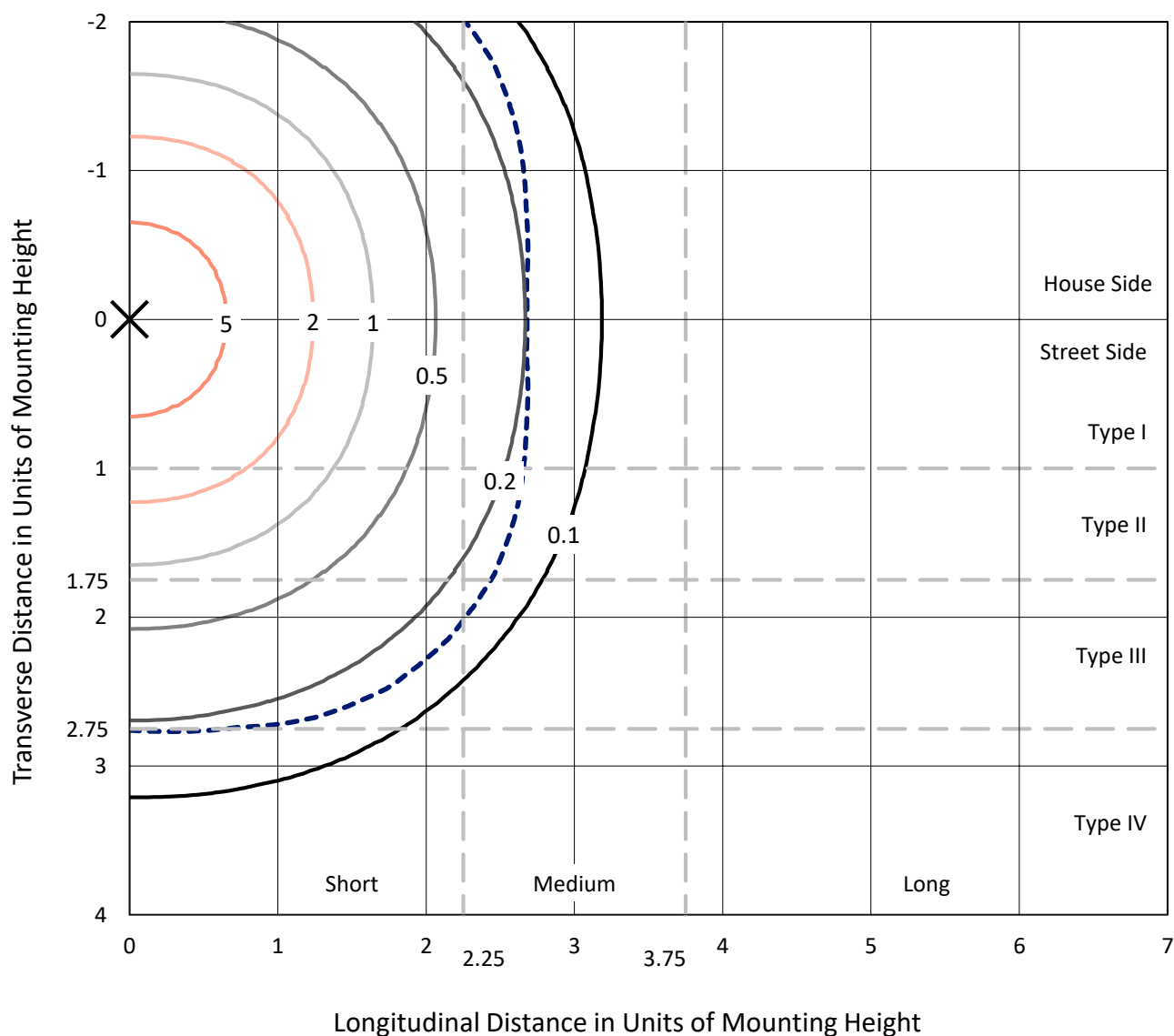


REPORT NUMBER: P197560

CATALOG NUMBER: TT-C1-LED-E1-CQ-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

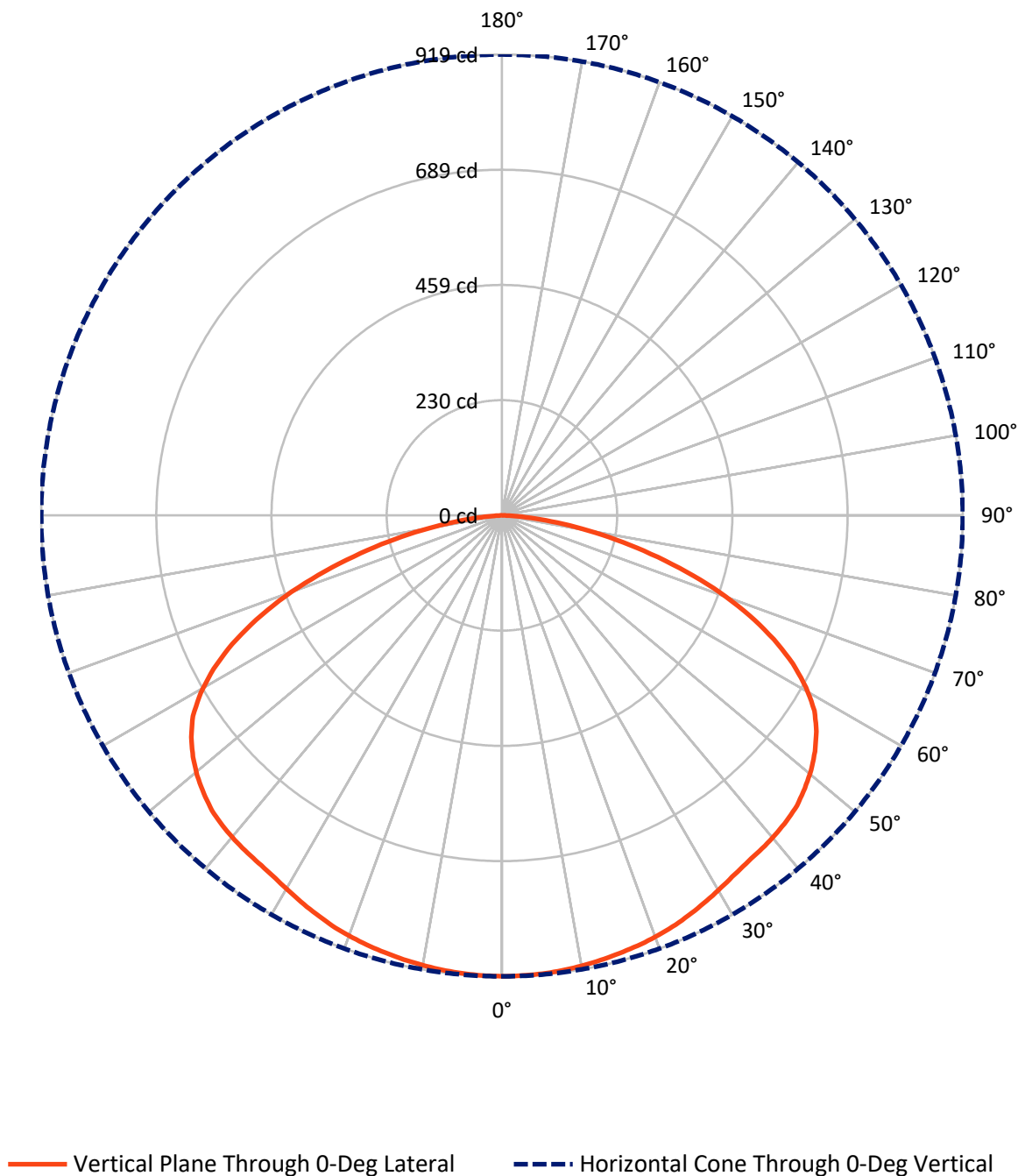


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P197560

CATALOG NUMBER: TT-C1-LED-E1-CQ-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P197560

CATALOG NUMBER: TT-C1-LED-E1-CQ-7060

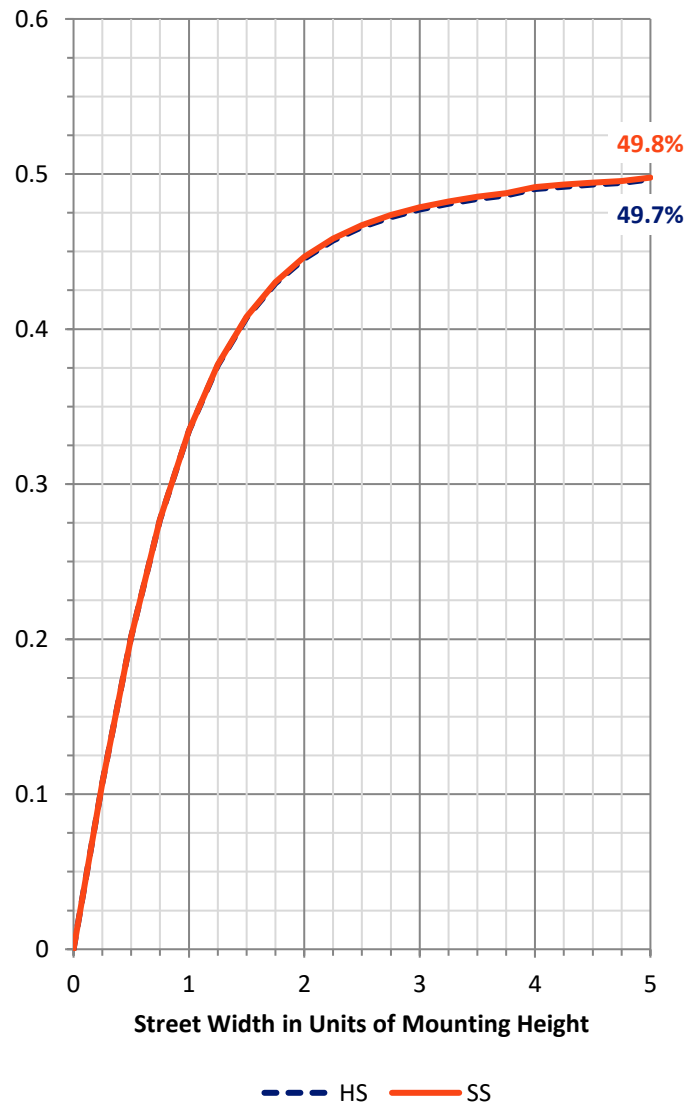
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1842.9   | 0.0    | 1842.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1842.9   | 0.0    | 1842.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3685.9   | 0.0    | 3685.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.3   | 2.4       |
| 10°-20°   | 255.6  | 6.9       |
| 20°-30°   | 406.7  | 11.0      |
| 30°-40°   | 537.8  | 14.6      |
| 40°-50°   | 656.3  | 17.8      |
| 50°-60°   | 708.8  | 19.2      |
| 60°-70°   | 613.8  | 16.7      |
| 70°-80°   | 348.0  | 9.4       |
| 80°-90°   | 71.6   | 1.9       |
| 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°    | 3685.9 | 100.0     |
| 0°-180°   | 3685.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P197560

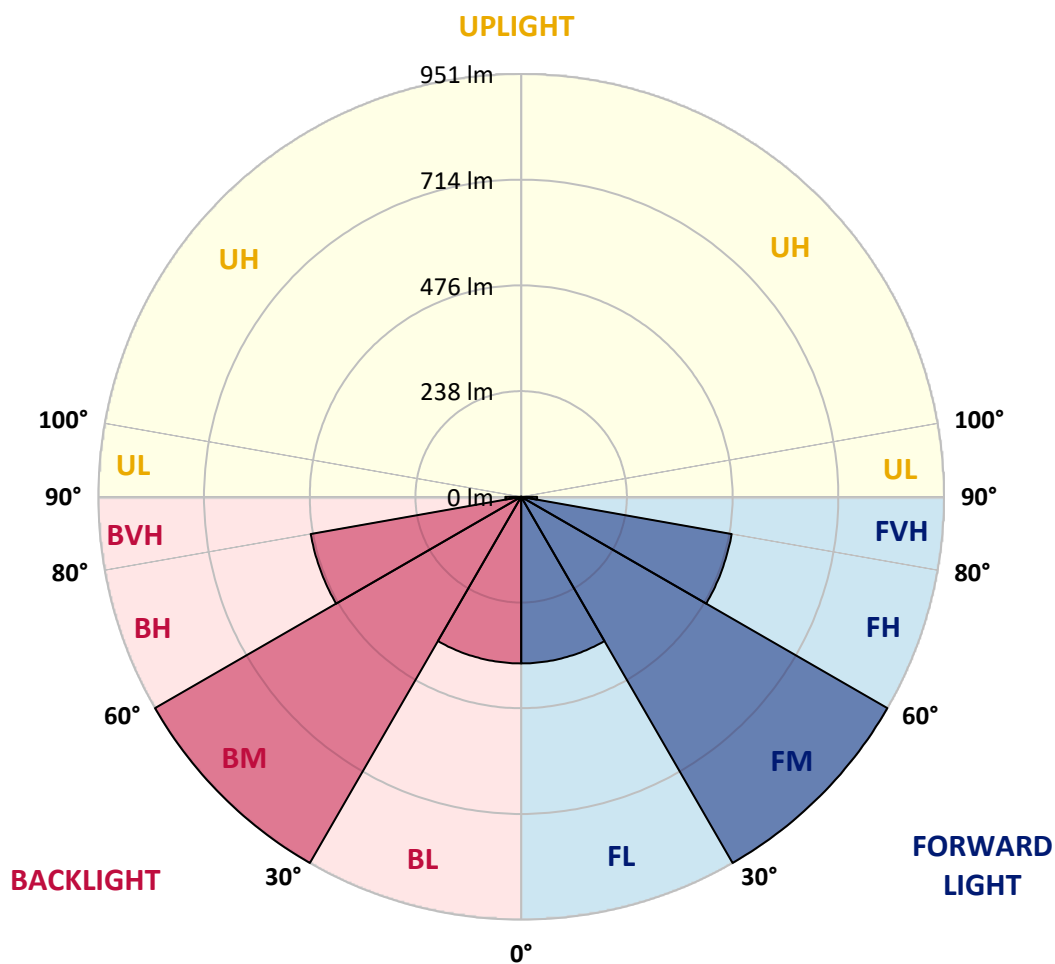
CATALOG NUMBER: TT-C1-LED-E1-CQ-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 374.8  | 10.2      |                         |      |        |
| FM   | (30°-60°)   | 951.4  | 25.8      |                         |      |        |
| FH   | (60°-80°)   | 480.9  | 13.0      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 35.8   | 1.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 374.8  | 10.2      | B1/500                  |      |        |
| BM   | (30°-60°)   | 951.4  | 25.8      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 480.9  | 13.0      | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 35.8   | 1.0       |                         |      | 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 V Short



REPORT NUMBER: P197560

CATALOG NUMBER: TT-C1-LED-E1-CQ-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 | 918.6 |
| 2.5°  | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 | 917.9 |
| 5°    | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 | 916.7 |
| 7.5°  | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 | 914.8 | 914.1 | 914.1 | 914.1 | 914.1 | 914.8 |
| 10°   | 911.0 | 911.0 | 911.6 | 911.6 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 |
| 12.5° | 907.2 | 907.2 | 907.2 | 907.2 | 907.2 | 907.2 | 907.2 | 907.2 | 906.5 | 906.5 | 906.5 |
| 15°   | 902.7 | 902.7 | 902.7 | 903.3 | 903.3 | 903.3 | 903.3 | 902.7 | 902.1 | 901.4 | 902.1 |
| 17.5° | 898.3 | 898.3 | 898.9 | 899.5 | 899.5 | 899.5 | 899.5 | 898.3 | 897.6 | 897.0 | 897.0 |
| 20°   | 892.6 | 893.2 | 893.2 | 893.8 | 894.5 | 894.5 | 894.5 | 893.8 | 892.6 | 891.3 | 891.3 |
| 22.5° | 886.2 | 886.9 | 887.5 | 888.1 | 888.8 | 888.1 | 888.1 | 887.5 | 886.2 | 885.6 | 884.9 |
| 25°   | 878.0 | 878.0 | 879.2 | 880.5 | 881.1 | 881.1 | 881.1 | 879.9 | 878.6 | 878.0 | 877.3 |
| 27.5° | 869.7 | 869.7 | 871.0 | 872.9 | 873.5 | 874.2 | 872.9 | 872.3 | 870.4 | 869.1 | 869.1 |
| 30°   | 860.8 | 860.8 | 862.7 | 865.3 | 867.2 | 867.8 | 867.2 | 864.6 | 862.1 | 860.8 | 860.8 |
| 32.5° | 852.6 | 853.2 | 855.1 | 858.9 | 862.1 | 863.4 | 862.7 | 859.6 | 856.4 | 853.9 | 853.2 |
| 35°   | 846.3 | 846.9 | 850.7 | 855.1 | 860.2 | 862.1 | 860.2 | 857.0 | 852.0 | 848.2 | 848.2 |
| 37.5° | 842.4 | 842.4 | 847.5 | 855.1 | 860.8 | 863.4 | 860.8 | 856.4 | 849.4 | 844.3 | 844.3 |
| 40°   | 838.0 | 839.3 | 845.6 | 855.1 | 863.4 | 867.2 | 864.0 | 857.7 | 848.8 | 842.4 | 841.8 |
| 42.5° | 832.3 | 834.2 | 841.2 | 853.9 | 864.0 | 869.7 | 866.6 | 858.9 | 848.2 | 841.2 | 840.5 |
| 45°   | 824.7 | 825.3 | 834.2 | 849.4 | 862.7 | 870.4 | 867.8 | 858.3 | 846.3 | 838.0 | 836.7 |
| 47.5° | 812.6 | 813.9 | 824.7 | 842.4 | 858.9 | 867.2 | 865.3 | 854.5 | 839.3 | 829.8 | 827.9 |
| 50°   | 798.7 | 799.9 | 812.6 | 832.9 | 851.3 | 860.8 | 857.7 | 844.3 | 827.9 | 815.2 | 813.9 |
| 52.5° | 781.5 | 784.1 | 798.0 | 820.9 | 840.5 | 849.4 | 844.3 | 827.2 | 808.2 | 794.2 | 793.0 |
| 55°   | 760.6 | 763.2 | 779.0 | 803.1 | 822.8 | 829.8 | 822.8 | 802.5 | 782.2 | 766.3 | 763.2 |
| 57.5° | 734.6 | 736.5 | 751.7 | 777.1 | 796.1 | 801.8 | 793.0 | 772.0 | 747.9 | 730.8 | 728.9 |
| 60°   | 696.5 | 699.1 | 716.8 | 740.3 | 759.3 | 766.3 | 757.4 | 732.1 | 706.1 | 688.9 | 688.3 |
| 62.5° | 650.9 | 655.3 | 670.5 | 695.9 | 713.0 | 722.6 | 710.5 | 684.5 | 658.5 | 638.8 | 638.8 |
| 65°   | 595.7 | 598.8 | 615.3 | 640.1 | 656.6 | 664.8 | 652.8 | 628.7 | 600.1 | 583.0 | 581.1 |
| 67.5° | 532.2 | 534.8 | 549.4 | 574.7 | 592.5 | 599.5 | 586.2 | 563.3 | 536.7 | 518.3 | 516.4 |
| 70°   | 461.8 | 465.6 | 476.4 | 499.9 | 515.7 | 519.6 | 509.4 | 487.8 | 463.7 | 447.2 | 446.0 |
| 72.5° | 385.1 | 388.2 | 402.2 | 420.6 | 433.3 | 434.5 | 428.2 | 412.3 | 387.6 | 374.3 | 372.4 |
| 75°   | 306.4 | 311.5 | 323.5 | 339.4 | 348.9 | 348.9 | 345.1 | 333.7 | 312.1 | 302.0 | 302.0 |
| 77.5° | 232.2 | 234.7 | 247.4 | 258.2 | 265.8 | 269.6 | 265.2 | 255.0 | 237.9 | 230.9 | 227.1 |
| 80°   | 161.8 | 164.3 | 170.0 | 178.3 | 185.9 | 188.4 | 183.3 | 175.1 | 165.6 | 160.5 | 158.0 |
| 82.5° | 99.0  | 101.5 | 104.7 | 109.1 | 114.2 | 116.7 | 113.6 | 108.5 | 100.2 | 99.6  | 99.0  |
| 85°   | 47.6  | 48.8  | 51.4  | 52.7  | 55.2  | 55.8  | 56.5  | 53.9  | 51.4  | 48.2  | 49.5  |
| 87.5° | 14.6  | 14.6  | 15.2  | 15.9  | 17.1  | 17.1  | 17.1  | 16.5  | 15.2  | 14.6  | 14.6  |
| 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)