

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: P198111

Luminaire Tested: **TT-C1-LED-E1-RW-SG-MS/DIM-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34700)  
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-RW-SG-MS/DIM-7050  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY  
SENSOR  
Light Source: (168) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2735.3 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

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

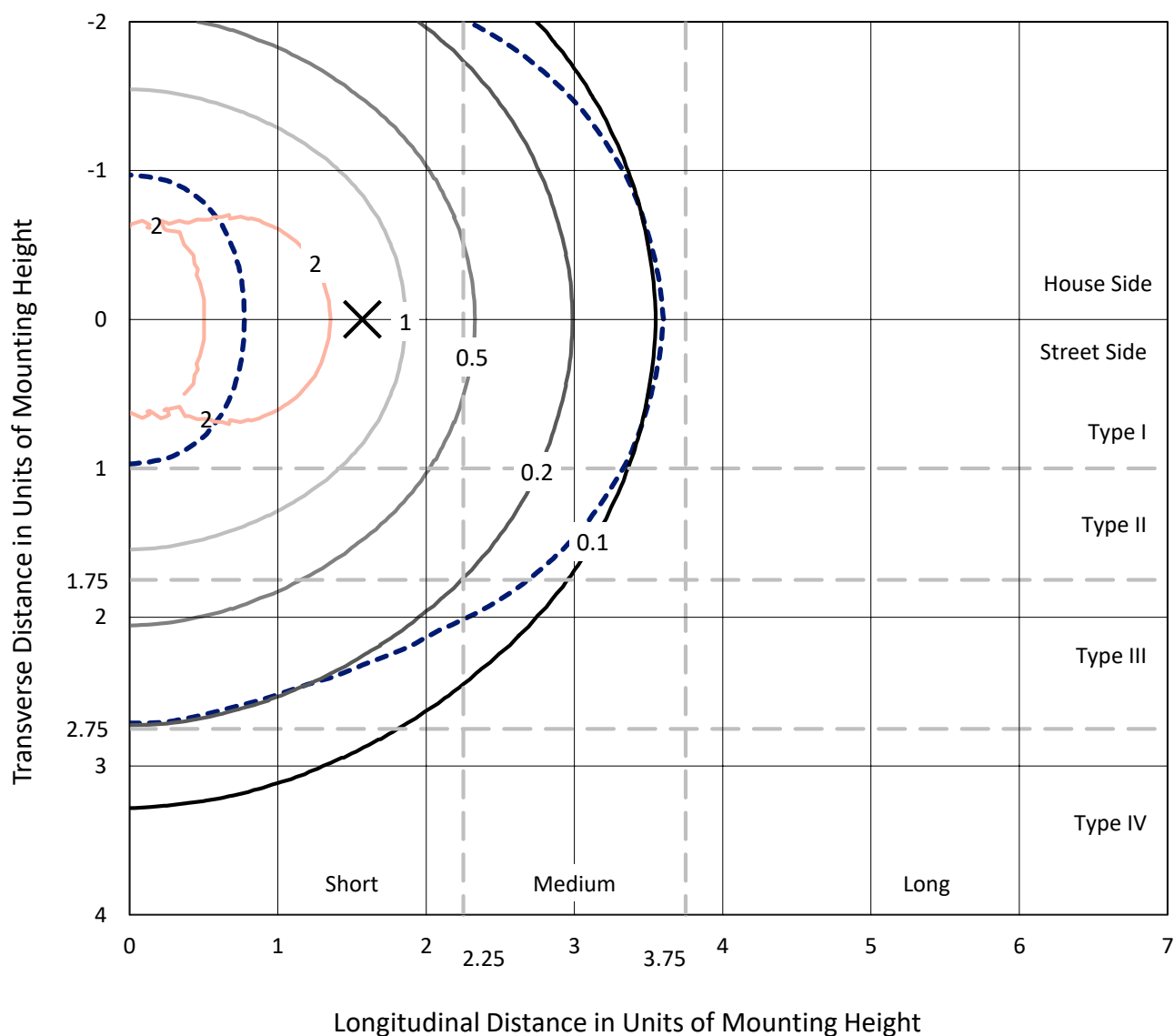


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

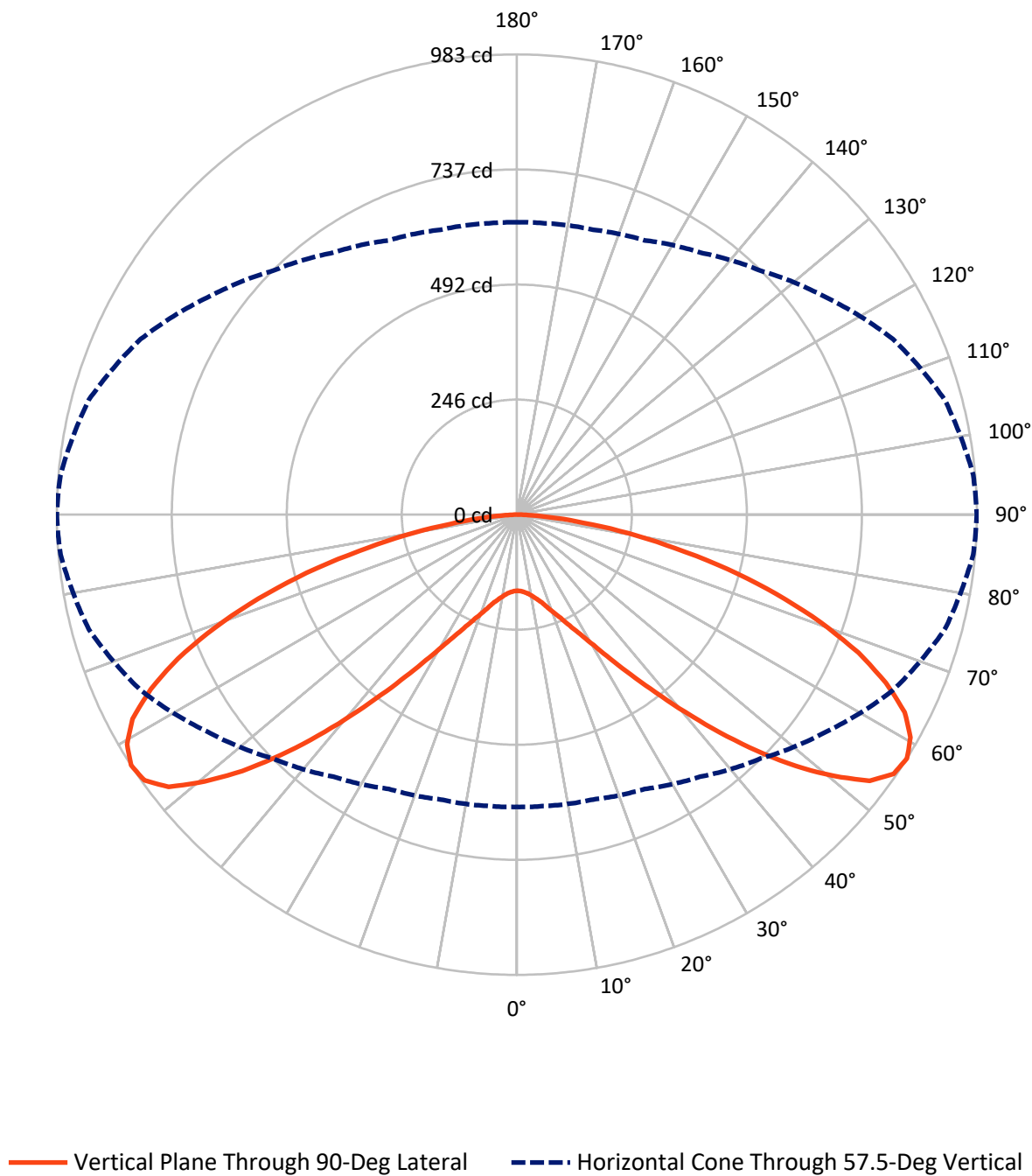


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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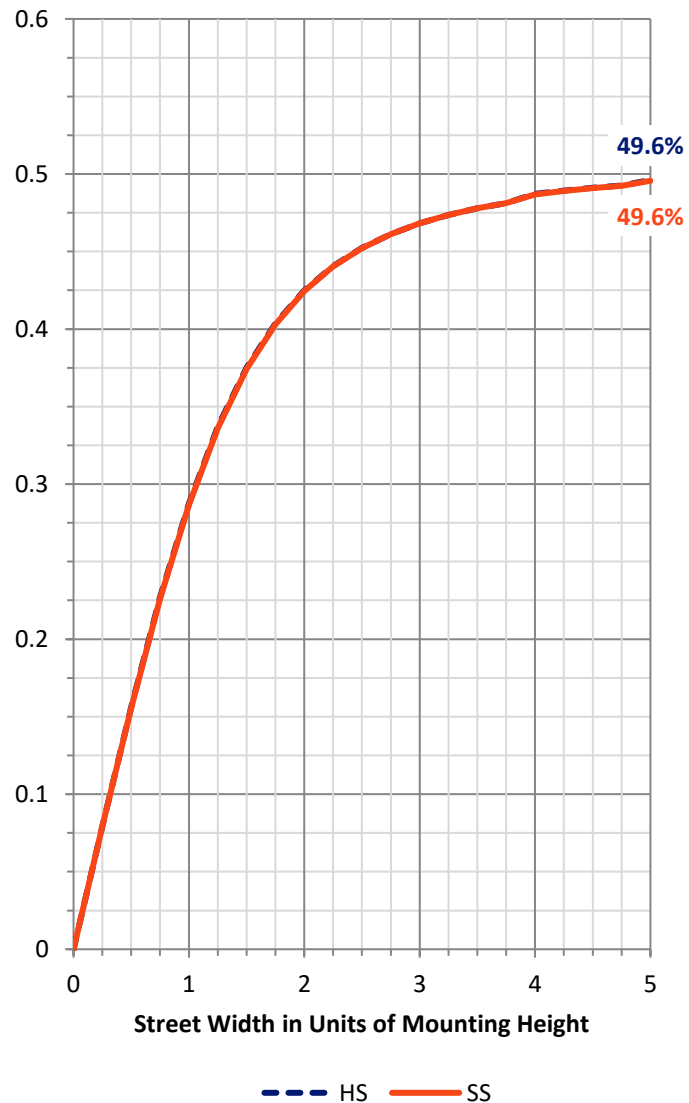
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1367.7   | 0.0    | 1367.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1367.7   | 0.0    | 1367.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2735.3   | 0.0    | 2735.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.1   | 0.6       |
| 10°-20°   | 55.9   | 2.0       |
| 20°-30°   | 121.8  | 4.5       |
| 30°-40°   | 244.6  | 8.9       |
| 40°-50°   | 456.7  | 16.7      |
| 50°-60°   | 672.7  | 24.6      |
| 60°-70°   | 677.7  | 24.8      |
| 70°-80°   | 404.5  | 14.8      |
| 80°-90°   | 85.2   | 3.1       |
| 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°    | 2735.3 | 100.0     |
| 0°-180°   | 2735.3 | 100.0     |

**Coefficient of Utilization**



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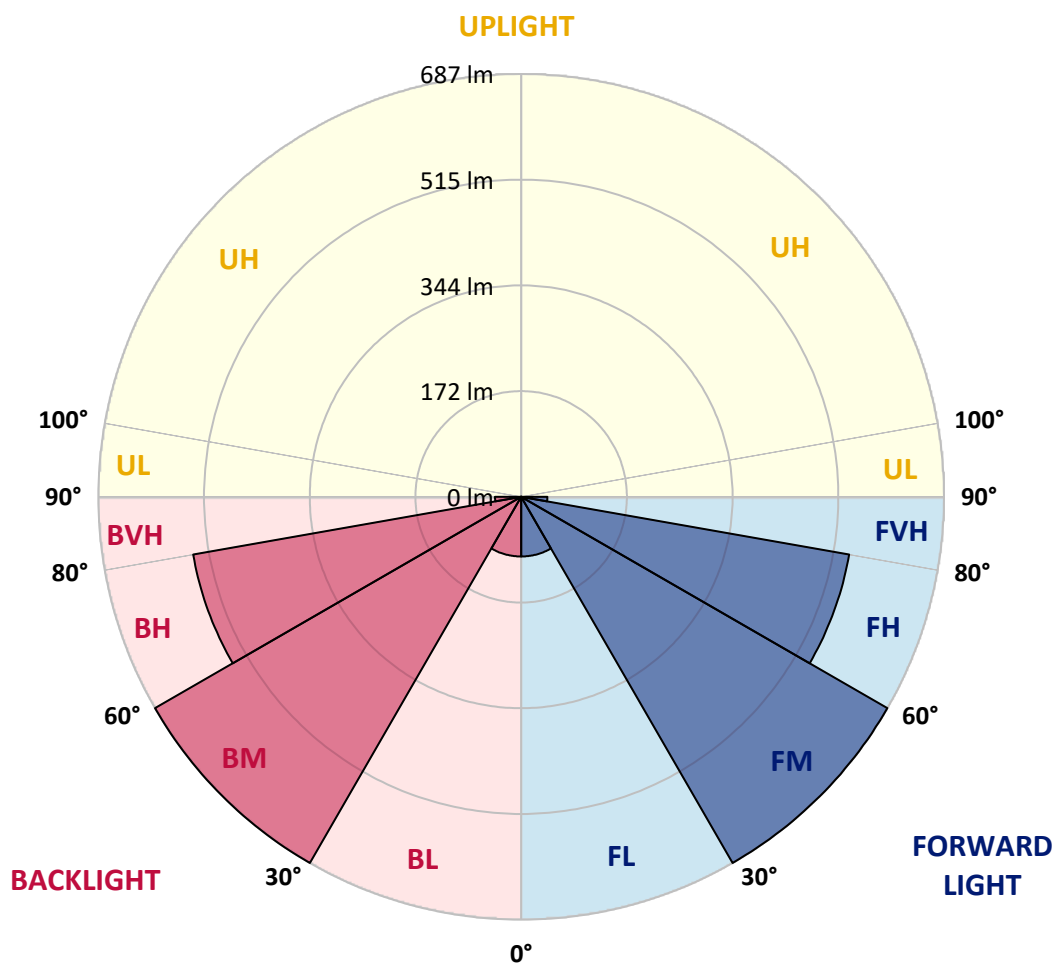
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 96.9   | 3.5       |                         |      |         |
| FM   | (30°-60°)   | 687.0  | 25.1      |                         |      |         |
| FH   | (60°-80°)   | 541.1  | 19.8      |                         |      | G0/660  |
| FVH  | (80°-90°)   | 42.6   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 96.9   | 3.5       | B0/110                  |      |         |
| BM   | (30°-60°)   | 687.0  | 25.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 541.1  | 19.8      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 42.6   | 1.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 | 162.7 |
| 2.5°  | 163.9 | 163.9 | 163.9 | 163.9 | 163.9 | 163.3 | 163.9 | 163.3 | 163.3 | 163.3 | 163.3 |
| 5°    | 165.6 | 165.6 | 165.6 | 166.2 | 166.2 | 166.2 | 166.2 | 165.6 | 166.2 | 165.6 | 166.2 |
| 7.5°  | 169.8 | 169.8 | 169.8 | 169.8 | 169.8 | 169.8 | 170.4 | 169.8 | 170.4 | 169.8 | 169.8 |
| 10°   | 175.1 | 175.1 | 175.1 | 175.1 | 175.7 | 175.7 | 175.7 | 176.3 | 176.3 | 176.3 | 176.3 |
| 12.5° | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 183.4 | 183.4 | 184.0 | 184.0 | 184.0 |
| 15°   | 192.9 | 192.9 | 192.4 | 192.4 | 192.4 | 192.9 | 192.9 | 194.1 | 193.5 | 193.5 | 193.5 |
| 17.5° | 205.4 | 204.8 | 204.8 | 204.8 | 204.8 | 204.8 | 204.8 | 206.0 | 206.0 | 206.0 | 206.6 |
| 20°   | 219.1 | 220.3 | 219.7 | 218.5 | 218.5 | 218.5 | 219.1 | 220.3 | 220.3 | 222.0 | 222.6 |
| 22.5° | 238.1 | 238.7 | 237.5 | 236.9 | 235.1 | 235.1 | 236.9 | 237.5 | 239.8 | 239.3 | 239.8 |
| 25°   | 258.2 | 257.7 | 257.1 | 255.9 | 255.9 | 255.9 | 257.1 | 258.8 | 260.6 | 262.4 | 262.4 |
| 27.5° | 280.8 | 280.2 | 279.6 | 279.0 | 277.8 | 279.6 | 280.8 | 285.0 | 286.2 | 290.3 | 289.1 |
| 30°   | 305.7 | 306.3 | 305.1 | 304.6 | 304.0 | 304.6 | 309.3 | 315.2 | 320.0 | 323.0 | 323.6 |
| 32.5° | 333.6 | 334.2 | 333.6 | 332.5 | 333.6 | 336.6 | 342.6 | 350.3 | 359.8 | 365.1 | 366.9 |
| 35°   | 364.5 | 365.7 | 364.5 | 365.7 | 366.9 | 372.2 | 382.9 | 394.8 | 411.4 | 416.2 | 419.1 |
| 37.5° | 397.8 | 396.6 | 396.0 | 397.8 | 403.1 | 414.4 | 429.2 | 450.0 | 467.2 | 481.5 | 481.5 |
| 40°   | 431.0 | 431.6 | 432.2 | 432.2 | 442.3 | 457.7 | 482.1 | 510.0 | 535.5 | 553.9 | 554.5 |
| 42.5° | 466.6 | 466.6 | 466.6 | 472.0 | 484.4 | 508.8 | 540.2 | 581.2 | 616.2 | 633.5 | 635.8 |
| 45°   | 502.8 | 505.2 | 506.4 | 513.5 | 531.9 | 562.8 | 604.4 | 653.6 | 698.2 | 721.3 | 720.1 |
| 47.5° | 538.5 | 541.4 | 543.8 | 554.5 | 579.4 | 612.7 | 664.3 | 723.7 | 774.2 | 800.3 | 802.7 |
| 50°   | 575.3 | 573.5 | 578.2 | 591.3 | 619.2 | 661.9 | 717.2 | 785.4 | 843.0 | 875.1 | 877.5 |
| 52.5° | 599.6 | 599.0 | 603.8 | 617.4 | 650.1 | 698.2 | 761.7 | 839.5 | 901.8 | 935.0 | 944.5 |
| 55°   | 616.8 | 616.2 | 621.6 | 637.6 | 673.2 | 724.3 | 793.2 | 875.1 | 938.0 | 972.4 | 977.2 |
| 57.5° | 624.5 | 625.1 | 629.9 | 646.5 | 683.3 | 736.8 | 808.0 | 887.0 | 946.9 | 979.0 | 983.1 |
| 60°   | 623.4 | 624.0 | 628.1 | 644.1 | 680.4 | 732.0 | 800.9 | 875.1 | 932.1 | 961.8 | 966.5 |
| 62.5° | 610.9 | 610.3 | 613.9 | 627.5 | 659.6 | 707.7 | 773.6 | 843.6 | 897.6 | 924.9 | 930.3 |
| 65°   | 584.8 | 584.2 | 584.2 | 596.1 | 623.4 | 664.3 | 726.7 | 789.0 | 839.5 | 865.6 | 866.8 |
| 67.5° | 542.0 | 542.0 | 540.8 | 548.0 | 568.1 | 607.9 | 661.4 | 718.3 | 759.3 | 783.7 | 787.2 |
| 70°   | 484.4 | 485.6 | 481.5 | 485.6 | 502.3 | 533.7 | 581.2 | 626.9 | 659.0 | 686.9 | 688.7 |
| 72.5° | 421.5 | 416.8 | 415.0 | 416.2 | 428.6 | 448.8 | 489.8 | 528.4 | 558.1 | 577.1 | 580.6 |
| 75°   | 340.2 | 340.2 | 339.0 | 337.2 | 344.3 | 364.5 | 391.8 | 423.3 | 448.2 | 461.3 | 466.0 |
| 77.5° | 260.6 | 263.0 | 259.4 | 259.4 | 264.8 | 280.2 | 304.0 | 321.2 | 339.0 | 347.9 | 345.5 |
| 80°   | 185.2 | 184.6 | 182.9 | 181.7 | 187.6 | 196.5 | 215.5 | 225.6 | 230.9 | 239.3 | 242.8 |
| 82.5° | 114.6 | 115.8 | 117.5 | 112.2 | 114.6 | 122.9 | 133.0 | 138.3 | 140.7 | 144.3 | 143.7 |
| 85°   | 56.4  | 57.0  | 57.6  | 58.2  | 58.2  | 61.1  | 67.1  | 69.5  | 71.2  | 73.0  | 71.8  |
| 87.5° | 20.8  | 19.6  | 19.0  | 19.0  | 19.0  | 19.6  | 22.6  | 22.0  | 23.2  | 23.2  | 24.3  |
| 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)