

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: P823445

Luminaire Tested: **TTN-D3-735-U-WQ**

Issue Date: 4/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P823445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TTN-D3-735-U-WQ  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

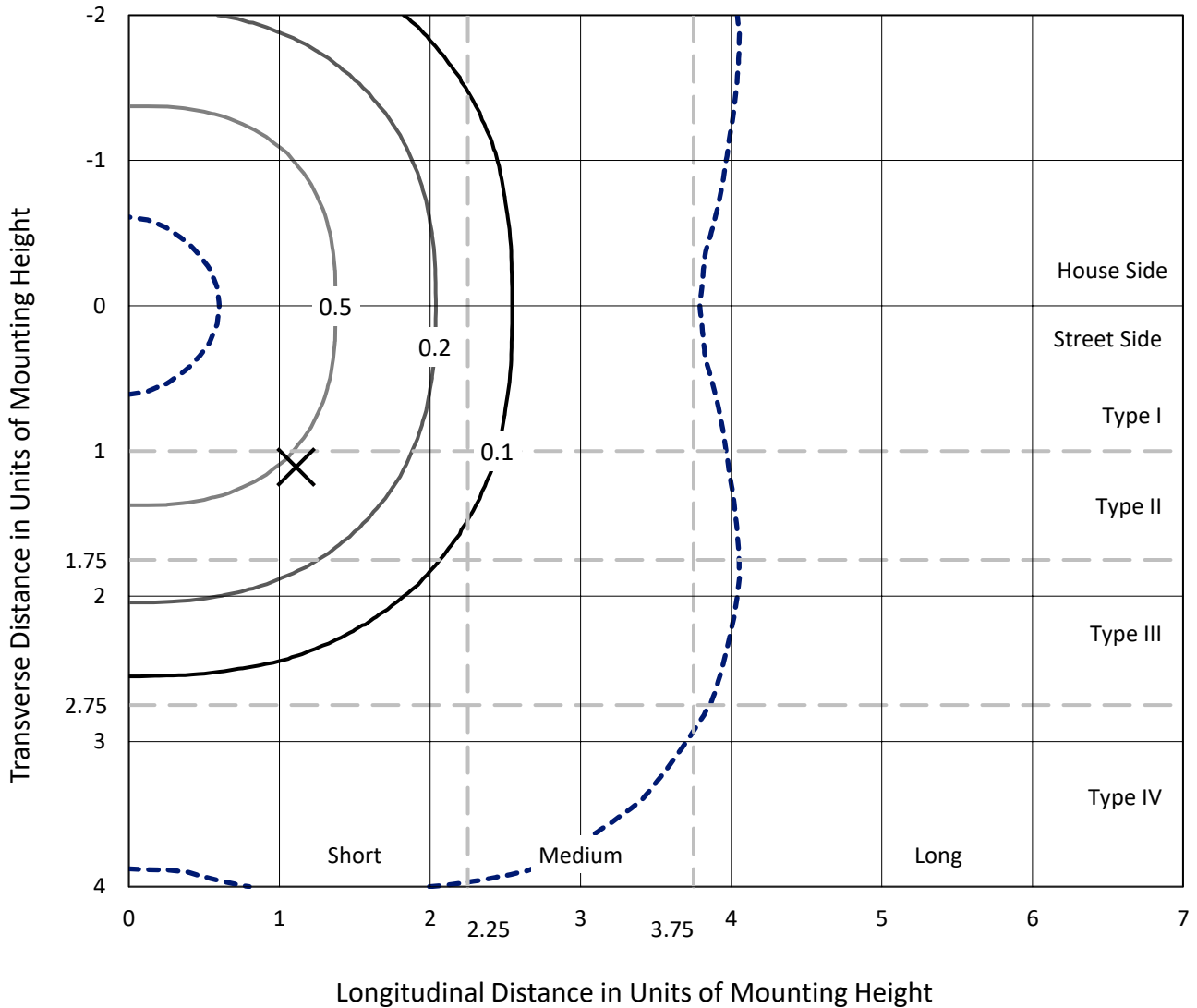
Lumens per Lamp: N/A  
Luminaire Lumens: 6669 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 59.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

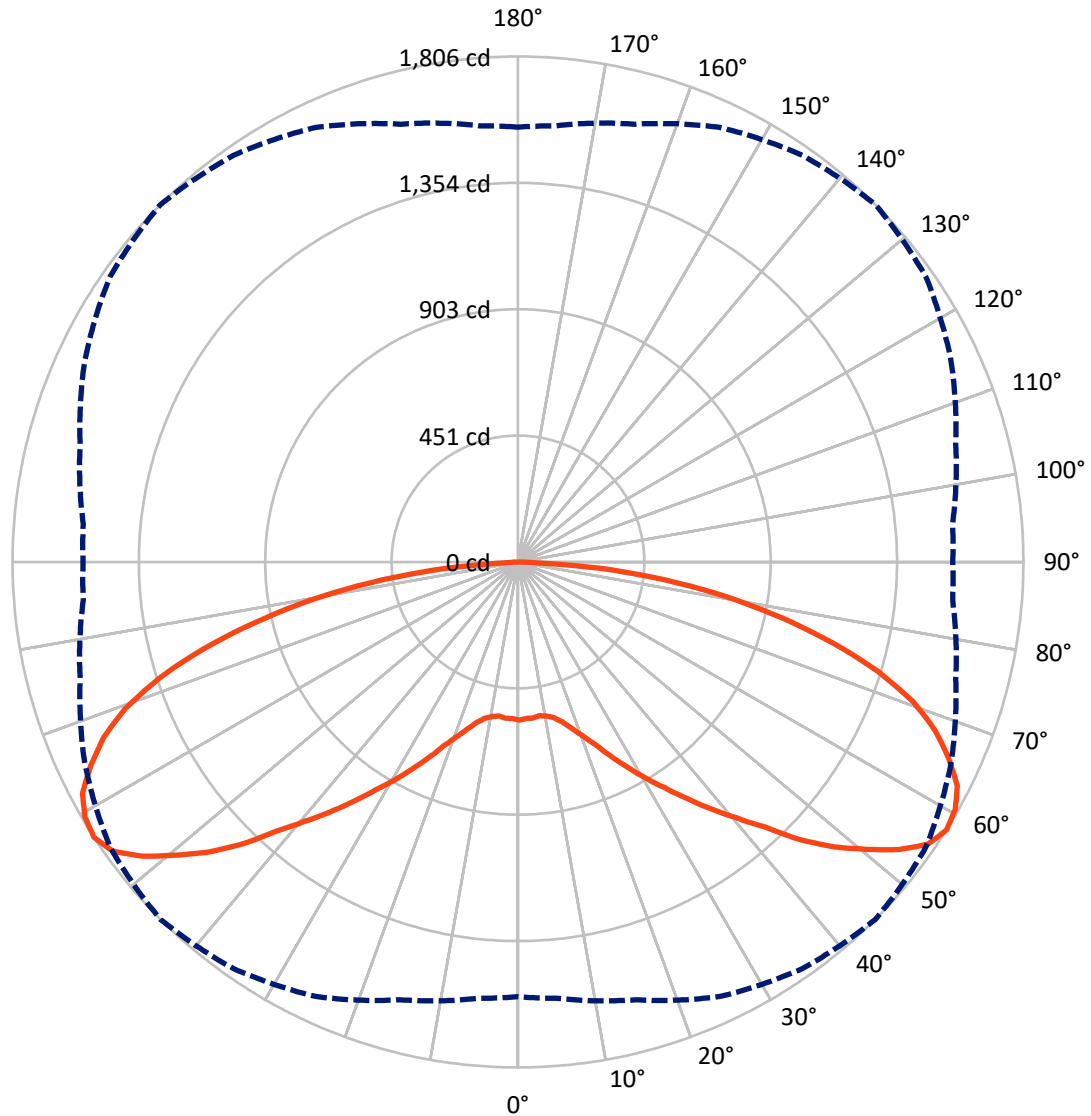
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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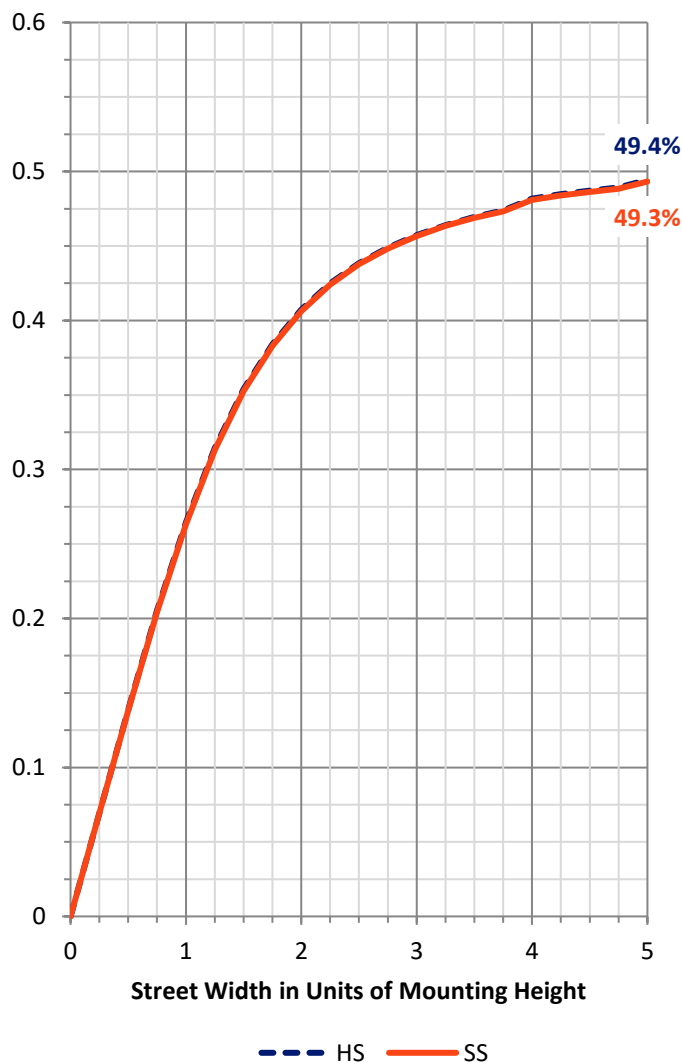
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3334.5   | 0.0    | 3334.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3334.5   | 0.0    | 3334.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6669.0   | 0.0    | 6669.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.1   | 0.8       |
| 10°-20°   | 169.6  | 2.5       |
| 20°-30°   | 355.8  | 5.3       |
| 30°-40°   | 645.4  | 9.7       |
| 40°-50°   | 1052.2 | 15.8      |
| 50°-60°   | 1472.7 | 22.1      |
| 60°-70°   | 1537.5 | 23.1      |
| 70°-80°   | 1098.5 | 16.5      |
| 80°-90°   | 284.2  | 4.3       |
| 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°    | 6669.0 | 100.0     |
| 0°-180°   | 6669.0 | 100.0     |

**Coefficient of Utilization**



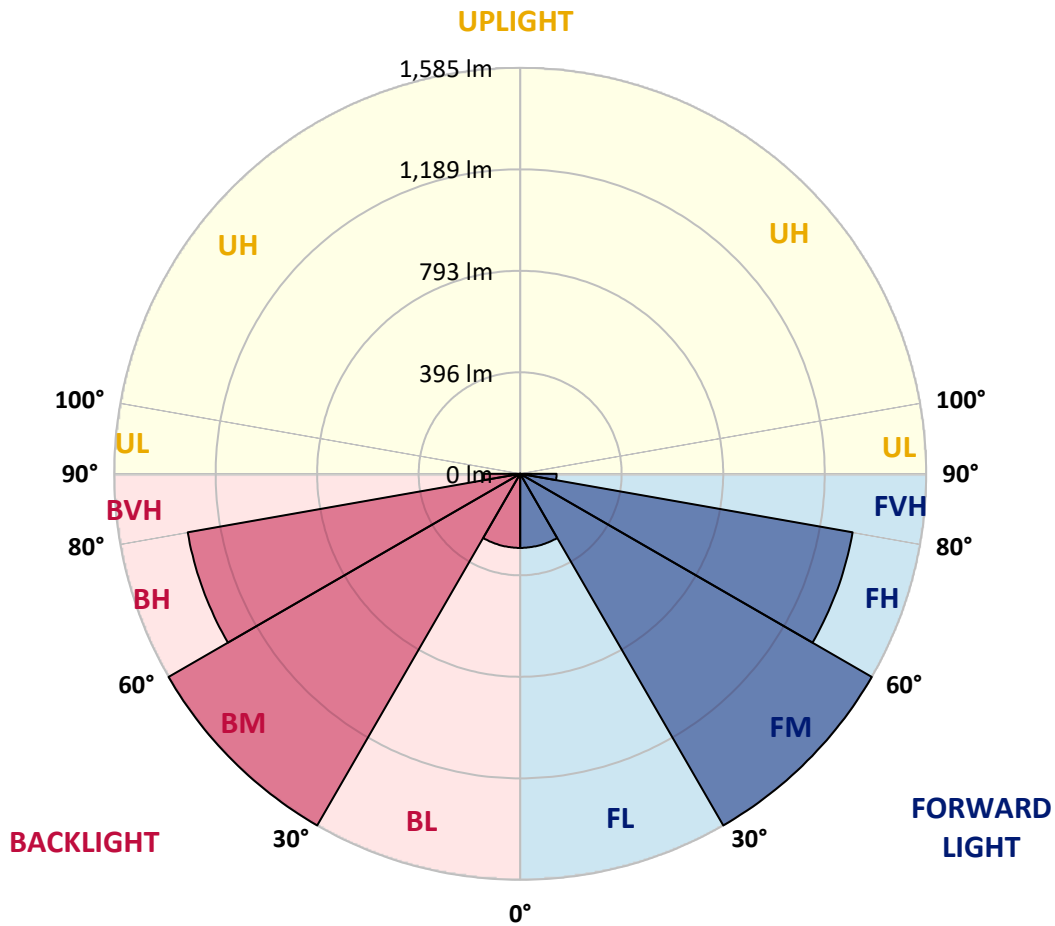
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 289.2  | 4.3       |                         |      |         |
| FM (30°-60°)   | 1585.2 | 23.8      |                         |      |         |
| FH (60°-80°)   | 1318.0 | 19.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 142.1  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 289.2  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 1585.2 | 23.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1318.0 | 19.8      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 142.1  | 2.1       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  | 565.3  |
| 2.5°  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  |
| 5°    | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  | 559.8  |
| 7.5°  | 548.8  | 548.8  | 554.3  | 554.3  | 554.3  | 554.3  | 554.3  | 554.3  | 554.3  | 554.3  | 554.3  |
| 10°   | 548.8  | 548.8  | 554.3  | 554.3  | 559.8  | 559.8  | 559.8  | 554.3  | 554.3  | 548.8  | 548.8  |
| 12.5° | 559.8  | 559.8  | 559.8  | 565.3  | 570.8  | 570.8  | 570.8  | 565.3  | 565.3  | 559.8  | 559.8  |
| 15°   | 576.3  | 581.8  | 581.8  | 587.2  | 592.7  | 592.7  | 592.7  | 587.2  | 587.2  | 581.8  | 581.8  |
| 17.5° | 609.2  | 609.2  | 609.2  | 614.7  | 620.2  | 625.7  | 625.7  | 614.7  | 614.7  | 609.2  | 614.7  |
| 20°   | 642.1  | 647.6  | 647.6  | 653.1  | 658.6  | 664.1  | 658.6  | 653.1  | 647.6  | 647.6  | 647.6  |
| 22.5° | 691.5  | 691.5  | 697.0  | 697.0  | 708.0  | 708.0  | 708.0  | 697.0  | 697.0  | 697.0  | 697.0  |
| 25°   | 746.4  | 746.4  | 751.9  | 757.4  | 768.4  | 768.4  | 762.9  | 751.9  | 751.9  | 751.9  | 757.4  |
| 27.5° | 812.3  | 812.3  | 817.7  | 817.7  | 828.7  | 828.7  | 823.2  | 817.7  | 817.7  | 817.7  | 823.2  |
| 30°   | 872.6  | 872.6  | 883.6  | 889.1  | 894.6  | 894.6  | 894.6  | 883.6  | 883.6  | 878.1  | 878.1  |
| 32.5° | 927.5  | 933.0  | 938.5  | 955.0  | 965.9  | 960.4  | 965.9  | 955.0  | 944.0  | 938.5  | 938.5  |
| 35°   | 987.9  | 993.4  | 1004.3 | 1020.8 | 1037.3 | 1037.3 | 1037.3 | 1020.8 | 1009.8 | 998.9  | 1004.3 |
| 37.5° | 1059.2 | 1059.2 | 1075.7 | 1092.2 | 1114.1 | 1119.6 | 1114.1 | 1097.6 | 1081.2 | 1070.2 | 1070.2 |
| 40°   | 1136.1 | 1136.1 | 1152.5 | 1169.0 | 1196.4 | 1201.9 | 1196.4 | 1174.5 | 1152.5 | 1147.0 | 1147.0 |
| 42.5° | 1212.9 | 1212.9 | 1234.9 | 1251.3 | 1284.2 | 1295.2 | 1284.2 | 1256.8 | 1234.9 | 1218.4 | 1223.9 |
| 45°   | 1295.2 | 1300.7 | 1328.2 | 1361.1 | 1399.5 | 1416.0 | 1399.5 | 1366.6 | 1333.6 | 1300.7 | 1300.7 |
| 47.5° | 1388.5 | 1388.5 | 1421.5 | 1459.9 | 1503.8 | 1520.2 | 1498.3 | 1465.4 | 1421.5 | 1394.0 | 1394.0 |
| 50°   | 1448.9 | 1454.4 | 1498.3 | 1547.7 | 1602.6 | 1613.5 | 1597.1 | 1547.7 | 1498.3 | 1459.9 | 1454.4 |
| 52.5° | 1509.3 | 1514.8 | 1564.1 | 1635.5 | 1690.4 | 1706.8 | 1684.9 | 1635.5 | 1564.1 | 1514.8 | 1514.8 |
| 55°   | 1547.7 | 1558.7 | 1613.5 | 1690.4 | 1750.7 | 1778.2 | 1745.3 | 1690.4 | 1608.1 | 1553.2 | 1547.7 |
| 57.5° | 1553.2 | 1564.1 | 1619.0 | 1712.3 | 1772.7 | 1805.6 | 1778.2 | 1706.8 | 1619.0 | 1558.7 | 1553.2 |
| 60°   | 1542.2 | 1547.7 | 1602.6 | 1701.4 | 1772.7 | 1794.7 | 1772.7 | 1695.9 | 1597.1 | 1547.7 | 1536.7 |
| 62.5° | 1514.8 | 1525.7 | 1580.6 | 1662.9 | 1745.3 | 1761.7 | 1739.8 | 1657.4 | 1575.1 | 1514.8 | 1503.8 |
| 65°   | 1426.9 | 1437.9 | 1520.2 | 1602.6 | 1673.9 | 1690.4 | 1673.9 | 1602.6 | 1514.8 | 1426.9 | 1416.0 |
| 67.5° | 1328.2 | 1333.6 | 1416.0 | 1514.8 | 1580.6 | 1608.1 | 1580.6 | 1520.2 | 1410.5 | 1328.2 | 1317.2 |
| 70°   | 1223.9 | 1229.4 | 1295.2 | 1399.5 | 1465.4 | 1498.3 | 1470.8 | 1405.0 | 1289.7 | 1218.4 | 1212.9 |
| 72.5° | 1103.1 | 1103.1 | 1169.0 | 1251.3 | 1317.2 | 1350.1 | 1328.2 | 1245.8 | 1158.0 | 1086.7 | 1075.7 |
| 75°   | 938.5  | 944.0  | 1015.3 | 1075.7 | 1147.0 | 1169.0 | 1147.0 | 1081.2 | 998.9  | 927.5  | 916.5  |
| 77.5° | 768.4  | 773.8  | 834.2  | 883.6  | 949.5  | 965.9  | 949.5  | 894.6  | 817.7  | 757.4  | 751.9  |
| 80°   | 581.8  | 587.2  | 636.6  | 680.5  | 735.4  | 757.4  | 740.9  | 686.0  | 625.7  | 570.8  | 554.3  |
| 82.5° | 378.7  | 384.2  | 433.6  | 466.5  | 515.9  | 532.4  | 521.4  | 472.0  | 422.6  | 367.7  | 362.2  |
| 85°   | 170.1  | 175.6  | 219.5  | 247.0  | 285.4  | 301.9  | 290.9  | 247.0  | 208.6  | 159.2  | 148.2  |
| 87.5° | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 22.0   | 22.0   | 16.5   | 16.5   | 16.5   | 16.5   |
| 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)