

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: P413302

Luminaire Tested: **TT-D1-740-U-RW-PM**

Issue Date: 10/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D1-740-U-RW-PM  
Description: TOPTIER LED SITE LUMINAIRE  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3097 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

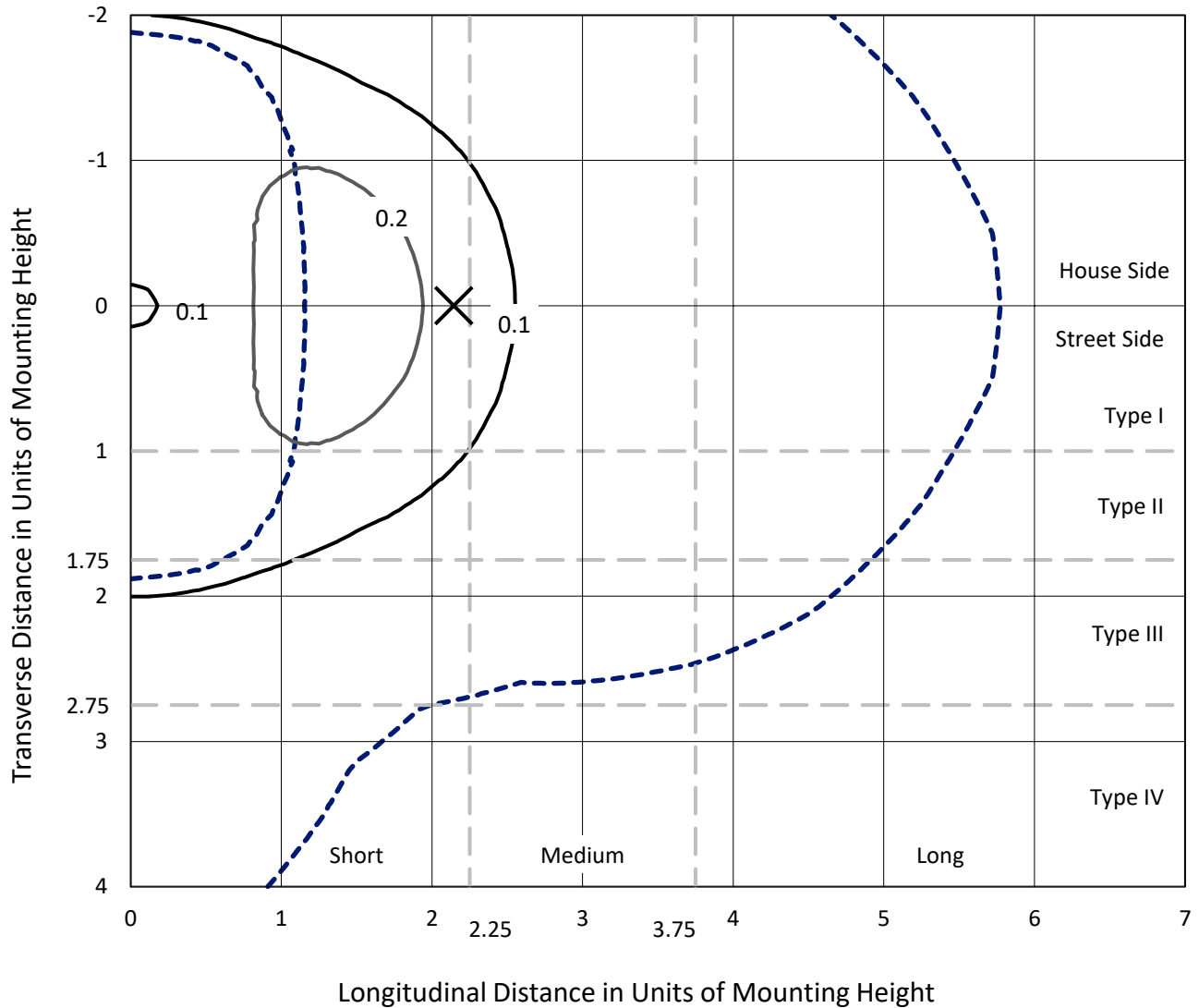
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

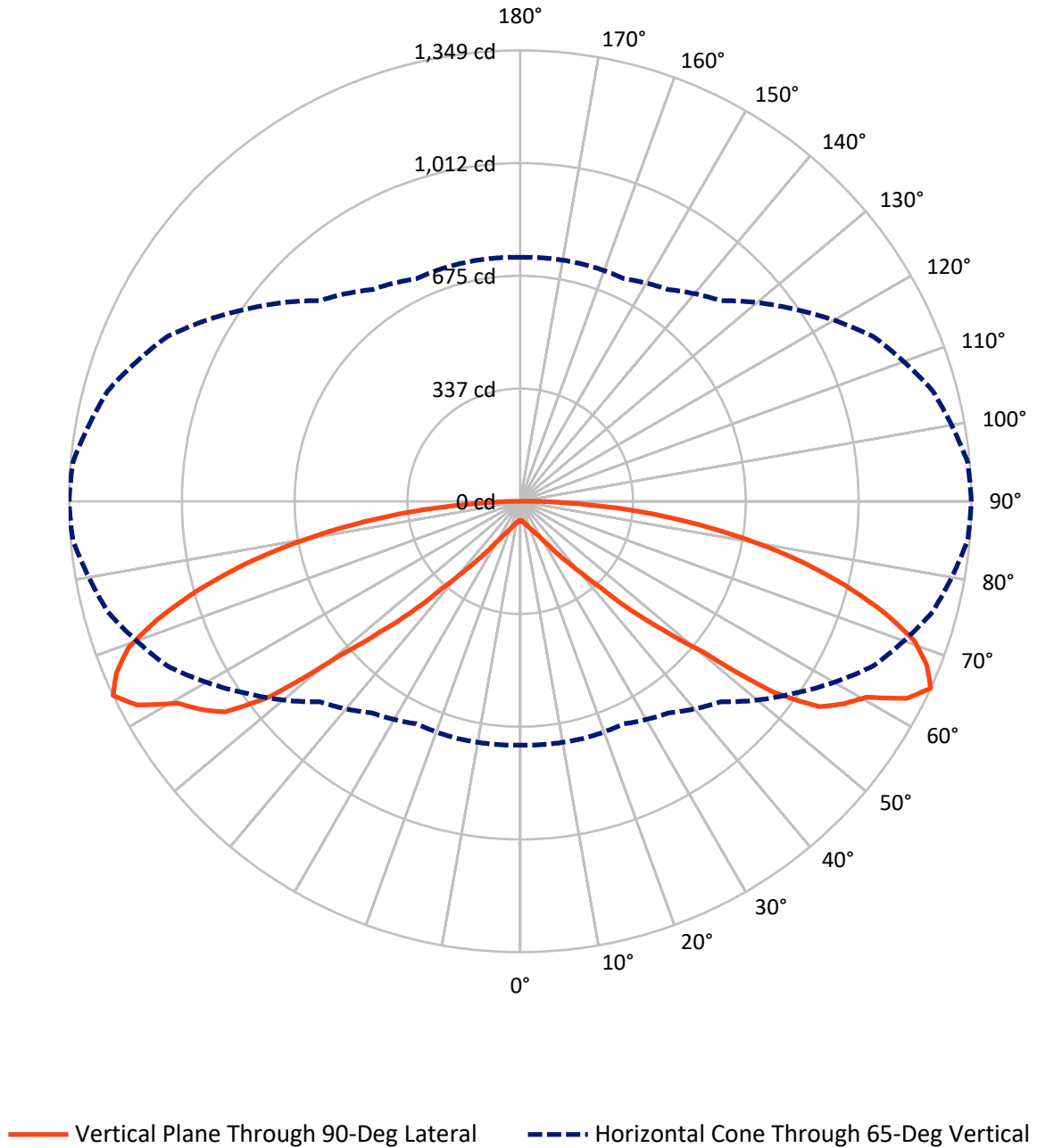
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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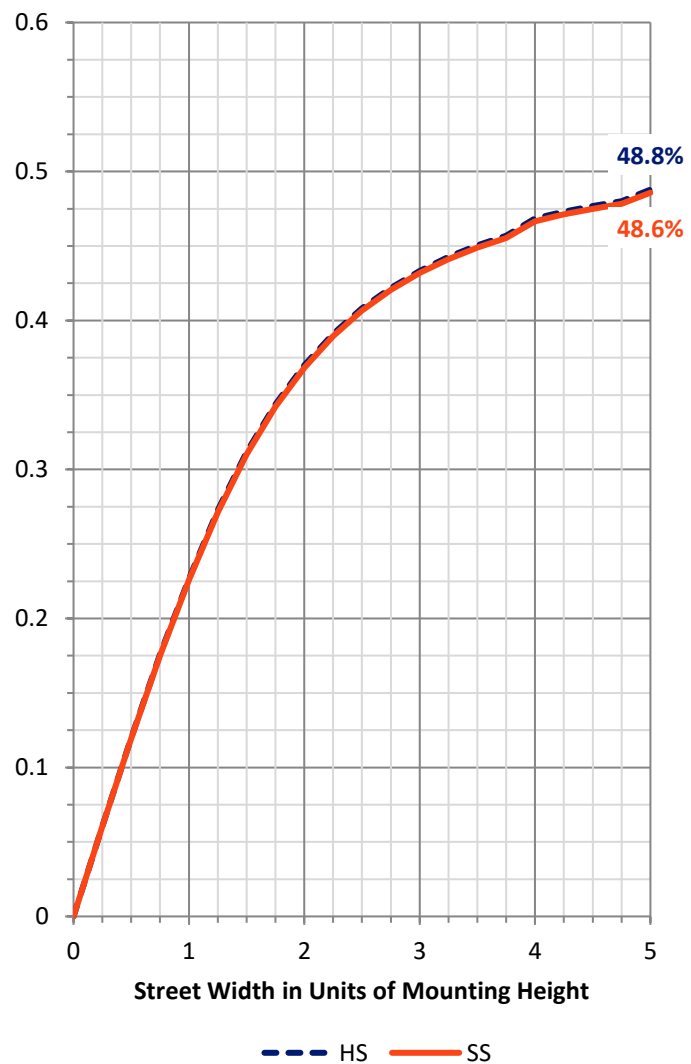
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1548.5   | 0.0    | 1548.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1548.5   | 0.0    | 1548.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3097.0   | 0.0    | 3097.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.9    | 0.2       |
| 10°-20°   | 22.1   | 0.7       |
| 20°-30°   | 51.0   | 1.6       |
| 30°-40°   | 115.4  | 3.7       |
| 40°-50°   | 281.1  | 9.1       |
| 50°-60°   | 632.1  | 20.4      |
| 60°-70°   | 923.8  | 29.8      |
| 70°-80°   | 804.9  | 26.0      |
| 80°-90°   | 260.7  | 8.4       |
| 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°    | 3097.0 | 100.0     |
| 0°-180°   | 3097.0 | 100.0     |

**Coefficient of Utilization**



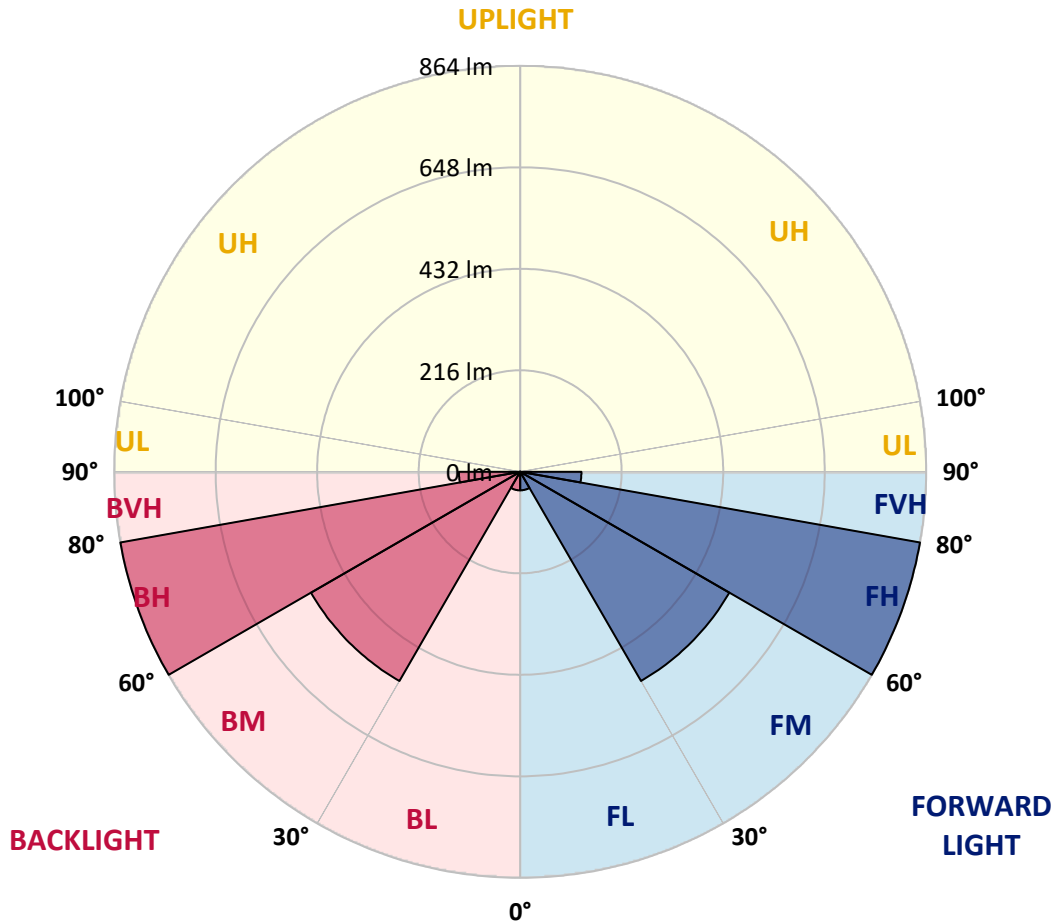
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 39.5   | 1.3       |                         |      |         |
| FM (30°-60°)   | 514.3  | 16.6      |                         |      |         |
| FH (60°-80°)   | 864.3  | 27.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 130.4  | 4.2       |                         |      | G2/225  |
| BL (0°-30°)    | 39.5   | 1.3       | B0/110                  |      |         |
| BM (30°-60°)   | 514.3  | 16.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 864.3  | 27.9      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 130.4  | 4.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6   | 56.6   | 56.6   | 56.6   | 56.6   |
| 2.5°  | 57.3  | 57.3  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1   | 58.1   | 58.1   | 58.1   | 58.1   |
| 5°    | 59.5  | 59.5  | 59.5  | 59.5  | 60.3  | 60.3  | 59.5   | 59.5   | 59.5   | 59.5   | 59.5   |
| 7.5°  | 63.2  | 62.5  | 63.2  | 63.2  | 63.2  | 62.5  | 62.5   | 62.5   | 61.7   | 61.7   | 61.7   |
| 10°   | 66.9  | 66.9  | 67.6  | 66.9  | 66.9  | 66.1  | 66.1   | 66.1   | 65.4   | 65.4   | 65.4   |
| 12.5° | 72.0  | 72.0  | 72.0  | 72.0  | 71.3  | 71.3  | 70.5   | 69.8   | 69.1   | 69.1   | 69.1   |
| 15°   | 78.6  | 77.9  | 77.9  | 77.2  | 76.4  | 75.7  | 75.0   | 75.0   | 74.2   | 74.2   | 74.2   |
| 17.5° | 85.2  | 85.2  | 84.5  | 83.8  | 82.3  | 81.6  | 81.6   | 80.8   | 80.1   | 80.1   | 80.1   |
| 20°   | 93.3  | 93.3  | 92.6  | 91.1  | 89.7  | 88.9  | 88.2   | 88.2   | 87.4   | 87.4   | 87.4   |
| 22.5° | 102.9 | 102.1 | 100.7 | 99.2  | 97.7  | 97.0  | 96.3   | 95.5   | 95.5   | 95.5   | 95.5   |
| 25°   | 113.2 | 112.4 | 111.7 | 109.5 | 107.3 | 106.6 | 105.1  | 105.1  | 104.3  | 105.1  | 105.1  |
| 27.5° | 125.7 | 124.9 | 123.5 | 121.2 | 118.3 | 116.8 | 116.1  | 116.1  | 116.8  | 116.8  | 116.8  |
| 30°   | 141.1 | 139.6 | 138.1 | 135.2 | 132.3 | 130.1 | 130.1  | 130.8  | 133.0  | 134.5  | 134.5  |
| 32.5° | 159.5 | 158.7 | 156.5 | 153.6 | 148.4 | 147.0 | 148.4  | 152.8  | 155.8  | 158.0  | 159.5  |
| 35°   | 180.8 | 180.0 | 177.1 | 172.0 | 168.3 | 167.5 | 172.0  | 179.3  | 188.9  | 191.8  | 193.3  |
| 37.5° | 204.3 | 205.0 | 201.3 | 195.5 | 191.8 | 193.3 | 202.1  | 216.0  | 225.6  | 232.2  | 233.7  |
| 40°   | 233.7 | 235.1 | 230.7 | 224.1 | 220.5 | 226.3 | 240.3  | 256.5  | 273.4  | 281.4  | 283.6  |
| 42.5° | 268.2 | 270.4 | 264.5 | 257.9 | 255.7 | 265.3 | 285.1  | 311.6  | 341.7  | 351.3  | 354.9  |
| 45°   | 310.8 | 312.3 | 305.0 | 299.1 | 297.6 | 314.5 | 348.3  | 392.4  | 440.2  | 462.2  | 465.9  |
| 47.5° | 361.5 | 360.8 | 354.2 | 346.8 | 348.3 | 372.6 | 423.3  | 482.8  | 533.5  | 567.3  | 574.6  |
| 50°   | 419.6 | 415.9 | 410.8 | 402.0 | 411.5 | 446.8 | 510.7  | 582.7  | 668.0  | 698.1  | 711.3  |
| 52.5° | 477.6 | 471.0 | 466.6 | 460.7 | 477.6 | 523.2 | 612.9  | 738.5  | 867.1  | 936.2  | 950.1  |
| 55°   | 529.8 | 524.7 | 522.5 | 523.2 | 549.7 | 615.1 | 732.6  | 893.6  | 1017.8 | 1075.1 | 1085.4 |
| 57.5° | 581.3 | 578.3 | 576.1 | 580.5 | 622.4 | 707.7 | 839.9  | 990.6  | 1092.7 | 1135.3 | 1142.7 |
| 60°   | 629.8 | 632.7 | 631.2 | 644.5 | 695.2 | 781.1 | 895.8  | 1044.2 | 1142.7 | 1181.6 | 1189.7 |
| 62.5° | 683.4 | 685.6 | 685.6 | 700.3 | 741.5 | 817.1 | 934.0  | 1107.4 | 1232.3 | 1289.6 | 1298.5 |
| 65°   | 729.7 | 731.2 | 734.1 | 734.8 | 773.1 | 848.7 | 1001.6 | 1165.5 | 1277.2 | 1343.3 | 1349.2 |
| 67.5° | 764.2 | 765.7 | 762.0 | 758.4 | 787.7 | 856.1 | 996.4  | 1158.1 | 1257.3 | 1307.3 | 1311.7 |
| 70°   | 792.2 | 785.5 | 775.3 | 756.9 | 766.4 | 817.9 | 953.8  | 1099.3 | 1199.3 | 1244.1 | 1250.7 |
| 72.5° | 795.8 | 790.0 | 757.6 | 716.5 | 704.7 | 749.5 | 878.9  | 1009.7 | 1095.6 | 1138.3 | 1139.0 |
| 75°   | 773.8 | 758.4 | 704.7 | 643.0 | 620.9 | 663.6 | 774.5  | 893.6  | 962.6  | 998.6  | 1002.3 |
| 77.5° | 699.6 | 684.9 | 617.3 | 546.7 | 521.7 | 558.5 | 652.5  | 748.8  | 814.9  | 850.2  | 852.4  |
| 80°   | 568.0 | 562.9 | 501.2 | 436.5 | 406.4 | 427.7 | 510.0  | 585.7  | 639.3  | 681.2  | 684.9  |
| 82.5° | 418.9 | 414.4 | 367.4 | 310.8 | 286.6 | 304.2 | 363.0  | 418.9  | 468.8  | 502.6  | 504.8  |
| 85°   | 261.6 | 252.8 | 223.4 | 183.7 | 167.5 | 179.3 | 218.2  | 255.7  | 300.5  | 327.0  | 328.5  |
| 87.5° | 87.4  | 83.8  | 72.0  | 59.5  | 50.0  | 52.2  | 63.9   | 77.9   | 113.9  | 125.7  | 133.0  |
| 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)