

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: P821239

Luminaire Tested: **TT-D3-740-24VDC-RW-PM**

Issue Date: 10/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821239  
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-D3-740-24VDC-RW-PM  
Description: TOPTIER LED SITE LUMINAIRE  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

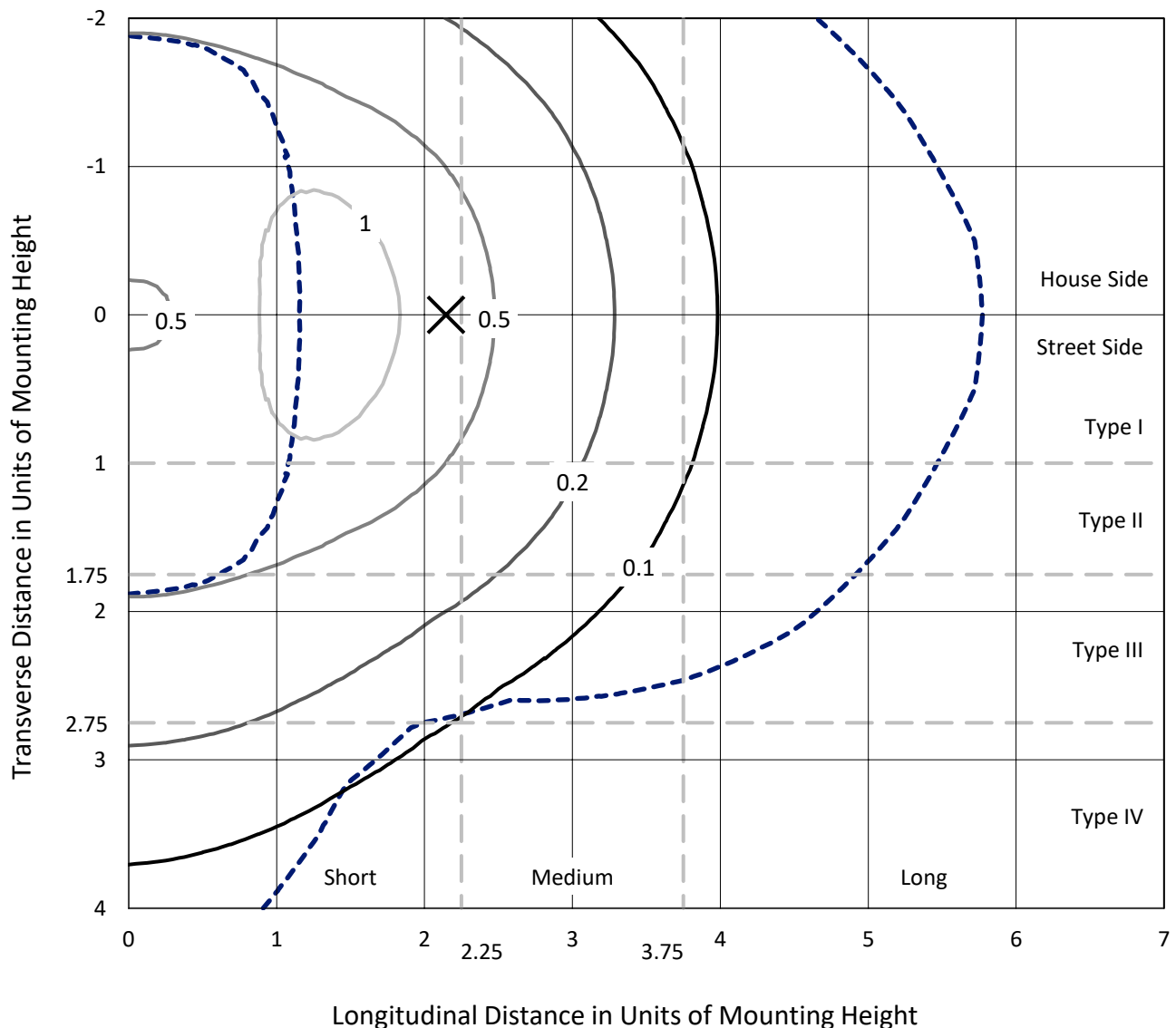
Lumens per Lamp: N/A  
Luminaire Lumens: 5083 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 46  
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

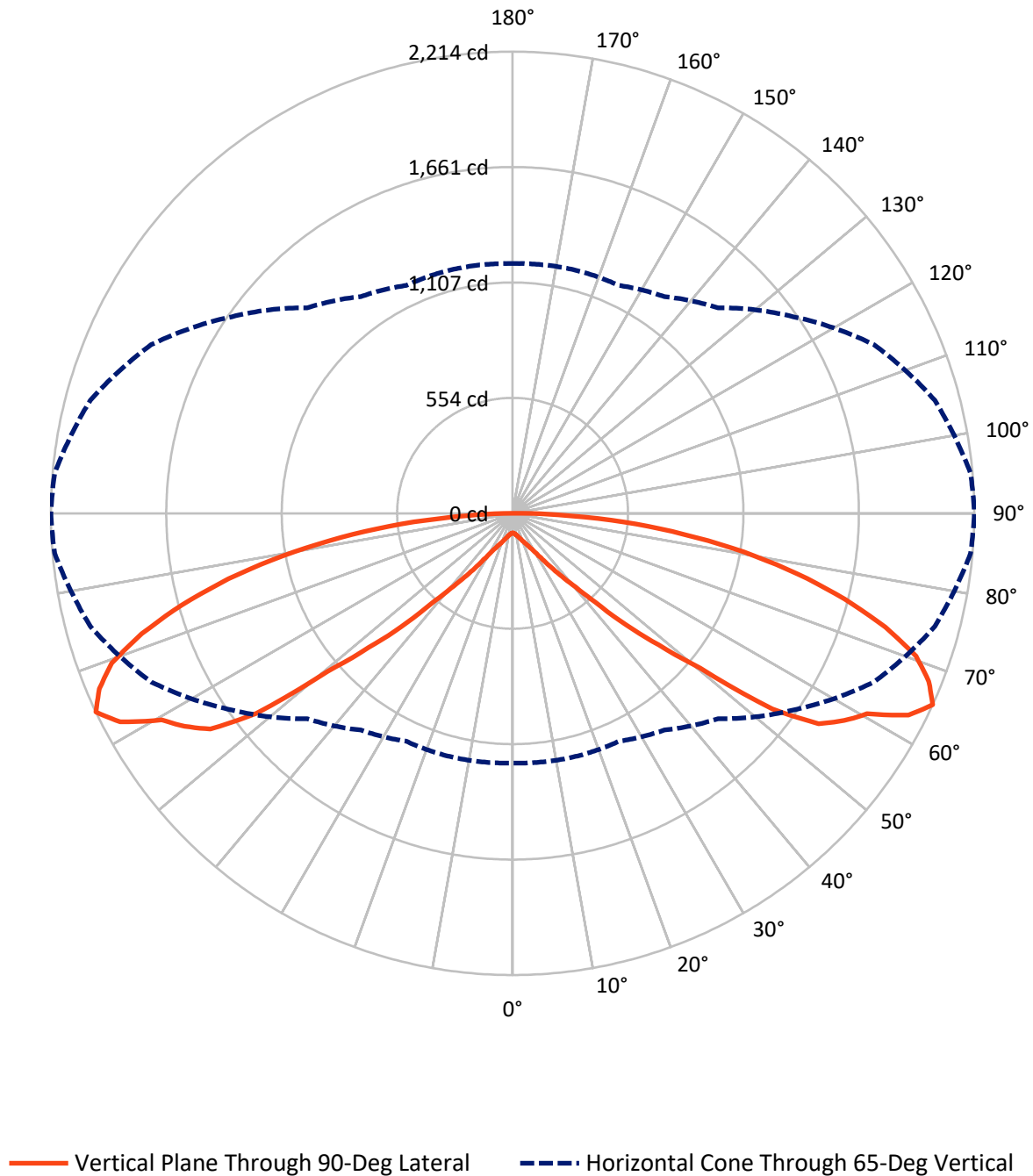
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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    | 2541.5   | 0.0    | 2541.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2541.5   | 0.0    | 2541.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5083.0   | 0.0    | 5083.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.7    | 0.2       |
| 10°-20°   | 36.3   | 0.7       |
| 20°-30°   | 83.8   | 1.6       |
| 30°-40°   | 189.4  | 3.7       |
| 40°-50°   | 461.3  | 9.1       |
| 50°-60°   | 1037.4 | 20.4      |
| 60°-70°   | 1516.1 | 29.8      |
| 70°-80°   | 1321.1 | 26.0      |
| 80°-90°   | 427.9  | 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°    | 5083.0 | 100.0     |
| 0°-180°   | 5083.0 | 100.0     |



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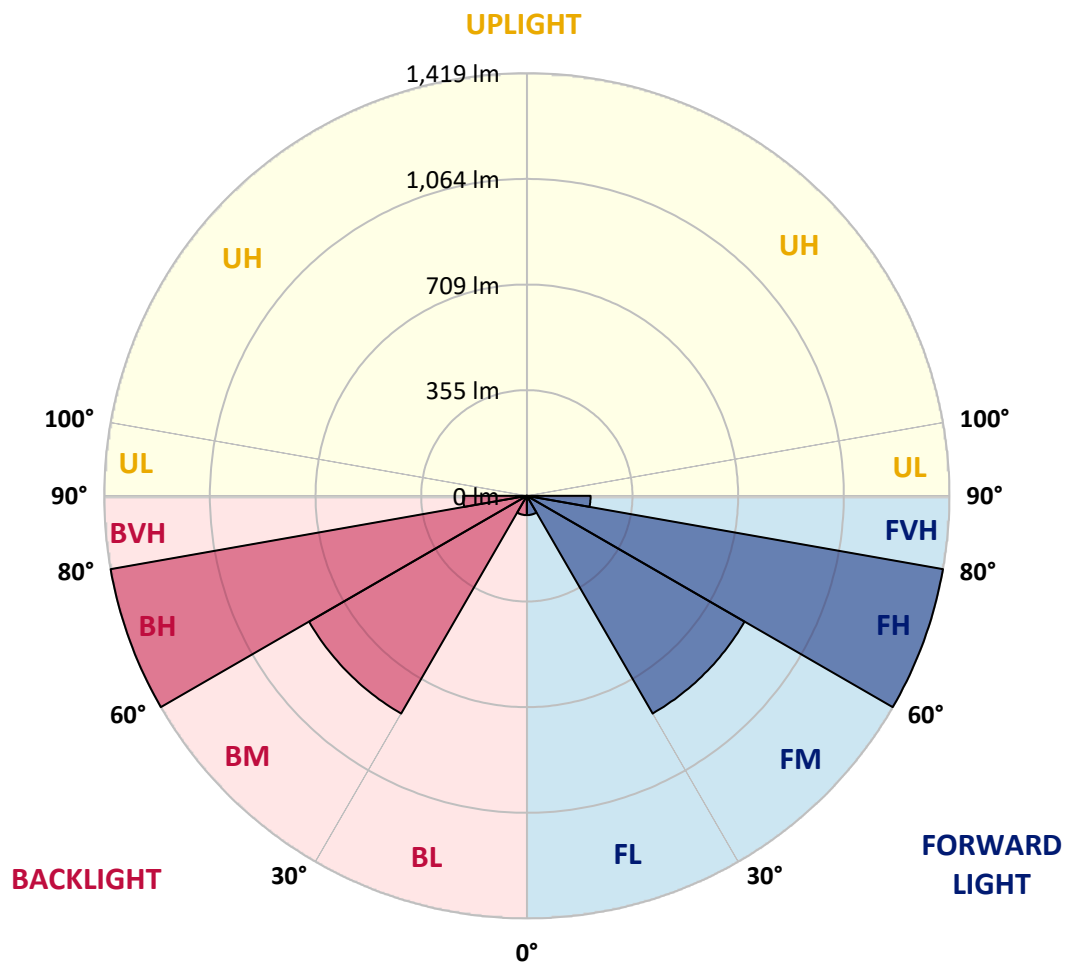
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 64.9   | 1.3       |                         |      |         |
| FM   | (30°-60°)   | 844.1  | 16.6      |                         |      |         |
| FH   | (60°-80°)   | 1418.6 | 27.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 214.0  | 4.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 64.9   | 1.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 844.1  | 16.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1418.6 | 27.9      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 214.0  | 4.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   | 92.9   |
| 2.5°  | 94.1   | 94.1   | 95.3   | 95.3   | 95.3   | 95.3   | 95.3   | 95.3   | 95.3   | 95.3   | 95.3   |
| 5°    | 97.7   | 97.7   | 97.7   | 97.7   | 98.9   | 98.9   | 97.7   | 97.7   | 97.7   | 97.7   | 97.7   |
| 7.5°  | 103.7  | 102.5  | 103.7  | 103.7  | 103.7  | 102.5  | 102.5  | 102.5  | 101.3  | 101.3  | 101.3  |
| 10°   | 109.8  | 109.8  | 111.0  | 109.8  | 109.8  | 108.5  | 108.5  | 108.5  | 107.3  | 107.3  | 107.3  |
| 12.5° | 118.2  | 118.2  | 118.2  | 118.2  | 117.0  | 117.0  | 115.8  | 114.6  | 113.4  | 113.4  | 113.4  |
| 15°   | 129.0  | 127.8  | 127.8  | 126.6  | 125.4  | 124.2  | 123.0  | 123.0  | 121.8  | 121.8  | 121.8  |
| 17.5° | 139.9  | 139.9  | 138.7  | 137.5  | 135.1  | 133.9  | 133.9  | 132.7  | 131.5  | 131.5  | 131.5  |
| 20°   | 153.2  | 153.2  | 152.0  | 149.6  | 147.1  | 145.9  | 144.7  | 144.7  | 143.5  | 143.5  | 143.5  |
| 22.5° | 168.8  | 167.6  | 165.2  | 162.8  | 160.4  | 159.2  | 158.0  | 156.8  | 156.8  | 156.8  | 156.8  |
| 25°   | 185.7  | 184.5  | 183.3  | 179.7  | 176.1  | 174.9  | 172.5  | 172.5  | 171.3  | 172.5  | 172.5  |
| 27.5° | 206.2  | 205.0  | 202.6  | 199.0  | 194.2  | 191.8  | 190.6  | 190.6  | 191.8  | 191.8  | 193.0  |
| 30°   | 231.6  | 229.2  | 226.7  | 221.9  | 217.1  | 213.5  | 213.5  | 214.7  | 218.3  | 220.7  | 220.7  |
| 32.5° | 261.7  | 260.5  | 256.9  | 252.1  | 243.6  | 241.2  | 243.6  | 250.9  | 255.7  | 259.3  | 261.7  |
| 35°   | 296.7  | 295.5  | 290.7  | 282.2  | 276.2  | 275.0  | 282.2  | 294.3  | 310.0  | 314.8  | 317.2  |
| 37.5° | 335.3  | 336.5  | 330.5  | 320.8  | 314.8  | 317.2  | 331.7  | 354.6  | 370.3  | 381.1  | 383.5  |
| 40°   | 383.5  | 385.9  | 378.7  | 367.9  | 361.8  | 371.5  | 394.4  | 420.9  | 448.7  | 461.9  | 465.5  |
| 42.5° | 440.2  | 443.8  | 434.2  | 423.3  | 419.7  | 435.4  | 468.0  | 511.4  | 560.8  | 576.5  | 582.5  |
| 45°   | 510.2  | 512.6  | 500.5  | 490.9  | 488.5  | 516.2  | 571.7  | 644.0  | 722.4  | 758.6  | 764.6  |
| 47.5° | 593.4  | 592.2  | 581.3  | 569.3  | 571.7  | 611.5  | 694.7  | 792.4  | 875.6  | 931.1  | 943.1  |
| 50°   | 688.7  | 682.6  | 674.2  | 659.7  | 675.4  | 733.3  | 838.2  | 956.4  | 1096.3 | 1145.8 | 1167.5 |
| 52.5° | 783.9  | 773.1  | 765.9  | 756.2  | 783.9  | 858.7  | 1005.9 | 1212.1 | 1423.2 | 1536.5 | 1559.4 |
| 55°   | 869.6  | 861.1  | 857.5  | 858.7  | 902.1  | 1009.5 | 1202.4 | 1466.6 | 1670.4 | 1764.5 | 1781.4 |
| 57.5° | 954.0  | 949.2  | 945.6  | 952.8  | 1021.5 | 1161.4 | 1378.5 | 1625.8 | 1793.4 | 1863.4 | 1875.4 |
| 60°   | 1033.6 | 1038.4 | 1036.0 | 1057.7 | 1140.9 | 1282.0 | 1470.2 | 1713.8 | 1875.4 | 1939.4 | 1952.6 |
| 62.5° | 1121.6 | 1125.3 | 1125.3 | 1149.4 | 1216.9 | 1341.1 | 1532.9 | 1817.5 | 2022.6 | 2116.6 | 2131.1 |
| 65°   | 1197.6 | 1200.0 | 1204.9 | 1206.1 | 1268.8 | 1393.0 | 1643.9 | 1912.8 | 2096.1 | 2204.7 | 2214.3 |
| 67.5° | 1254.3 | 1256.7 | 1250.7 | 1244.7 | 1292.9 | 1405.1 | 1635.4 | 1900.8 | 2063.6 | 2145.6 | 2152.8 |
| 70°   | 1300.1 | 1289.3 | 1272.4 | 1242.2 | 1257.9 | 1342.4 | 1565.5 | 1804.3 | 1968.3 | 2041.9 | 2052.7 |
| 72.5° | 1306.2 | 1296.5 | 1243.5 | 1175.9 | 1156.6 | 1230.2 | 1442.5 | 1657.1 | 1798.2 | 1868.2 | 1869.4 |
| 75°   | 1270.0 | 1244.7 | 1156.6 | 1055.3 | 1019.1 | 1089.1 | 1271.2 | 1466.6 | 1579.9 | 1639.0 | 1645.1 |
| 77.5° | 1148.2 | 1124.1 | 1013.1 | 897.3  | 856.3  | 916.6  | 1071.0 | 1229.0 | 1337.5 | 1395.4 | 1399.0 |
| 80°   | 932.3  | 923.8  | 822.5  | 716.4  | 667.0  | 701.9  | 837.0  | 961.2  | 1049.3 | 1118.0 | 1124.1 |
| 82.5° | 687.5  | 680.2  | 603.0  | 510.2  | 470.4  | 499.3  | 595.8  | 687.5  | 769.5  | 824.9  | 828.6  |
| 85°   | 429.4  | 414.9  | 366.6  | 301.5  | 275.0  | 294.3  | 358.2  | 419.7  | 493.3  | 536.7  | 539.1  |
| 87.5° | 143.5  | 137.5  | 118.2  | 97.7   | 82.0   | 85.6   | 104.9  | 127.8  | 186.9  | 206.2  | 218.3  |
| 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)