

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: STREETWORKS

Report Number: P450567

Luminaire Tested: **GLAN-SA1B-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4439 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

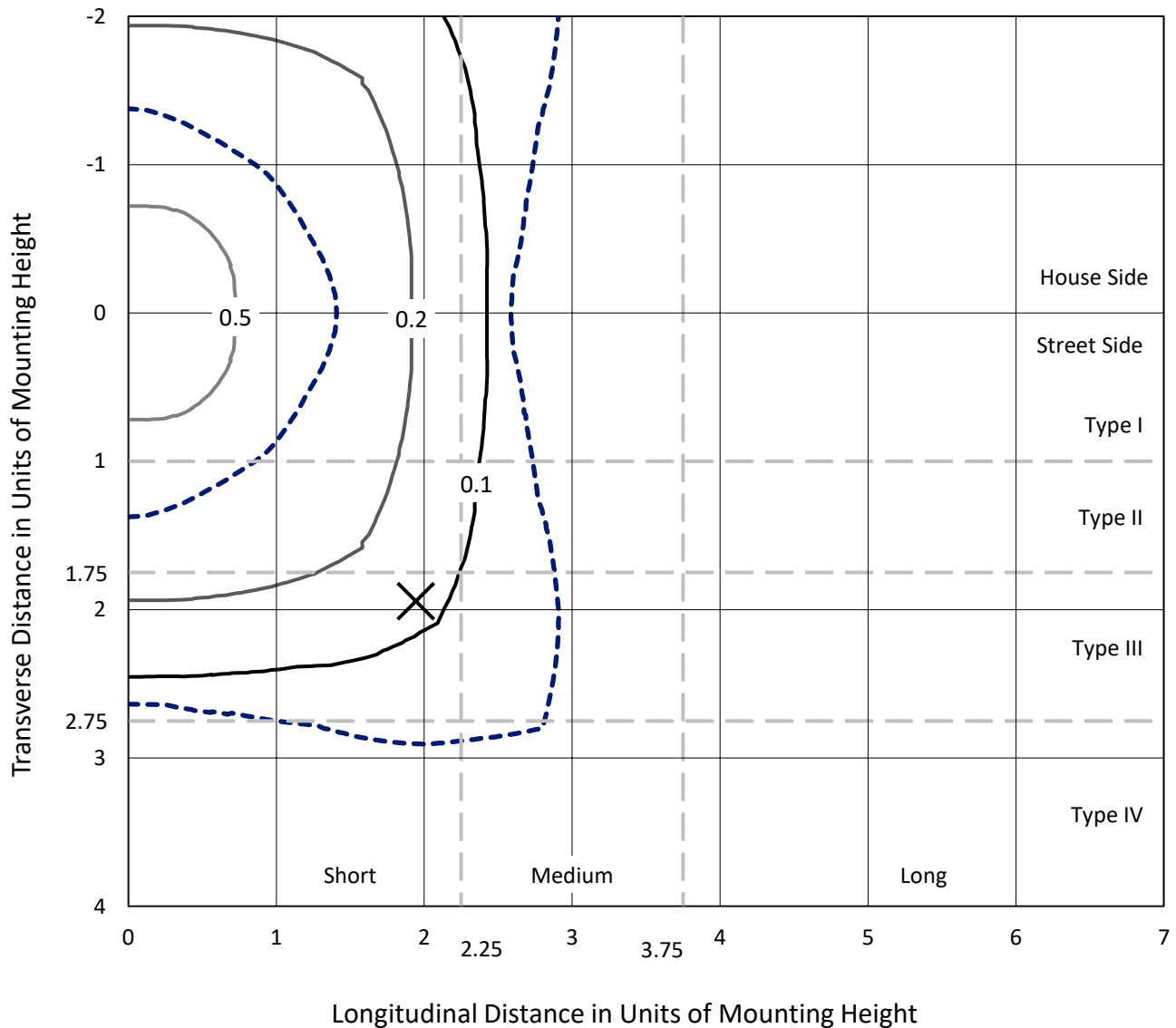


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

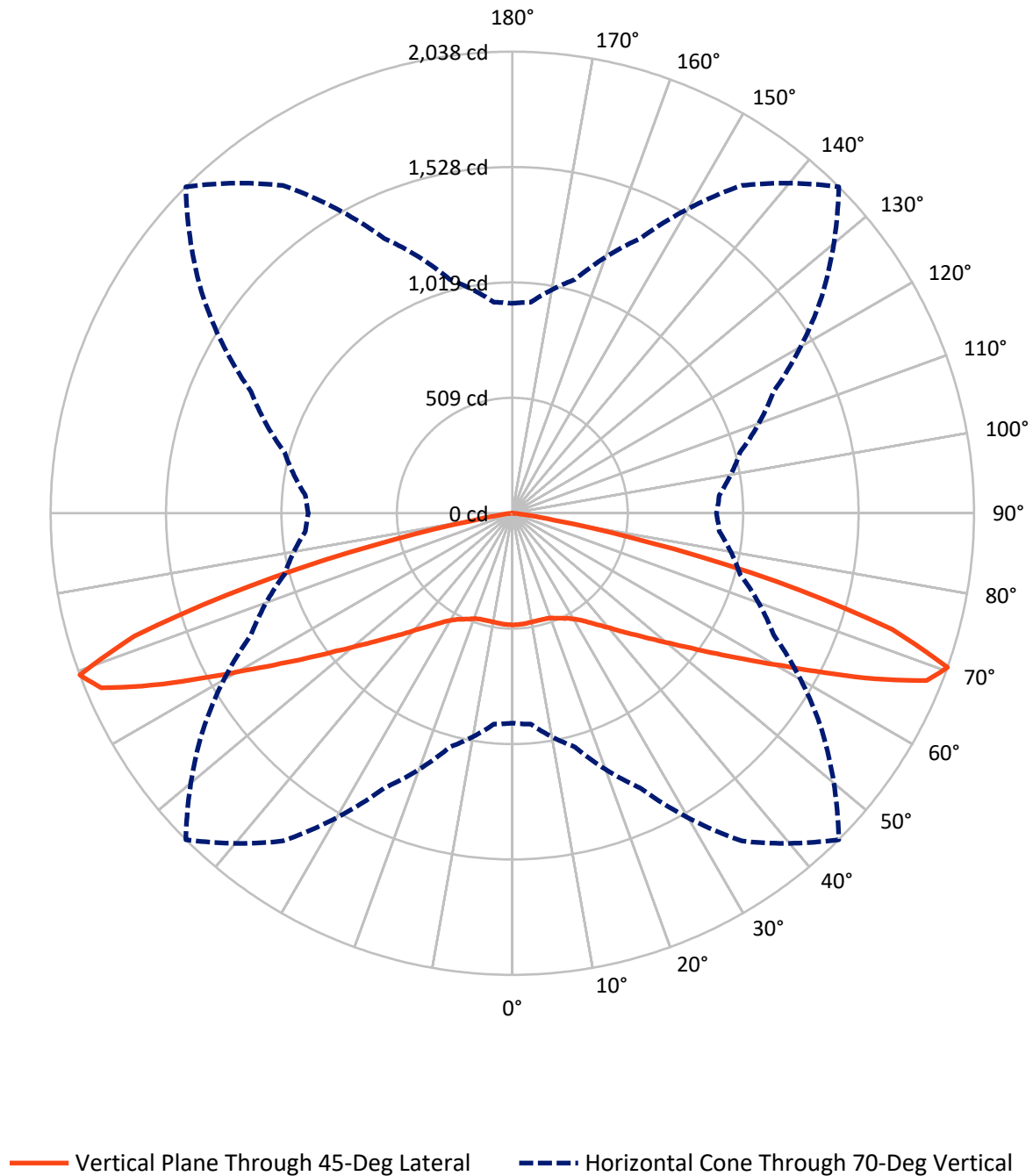


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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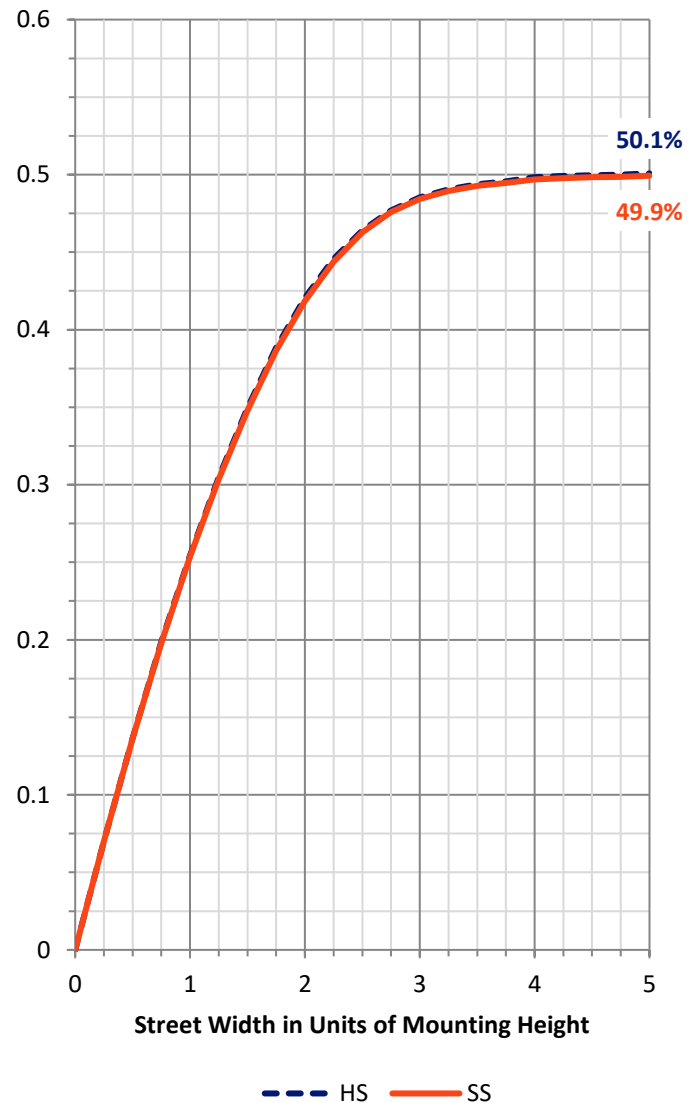
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2219.5   | 0.0    | 2219.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2219.5   | 0.0    | 2219.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4439.0   | 0.0    | 4439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.7   | 1.1       |
| 10°-20°   | 137.2  | 3.1       |
| 20°-30°   | 234.6  | 5.3       |
| 30°-40°   | 372.4  | 8.4       |
| 40°-50°   | 600.7  | 13.5      |
| 50°-60°   | 977.4  | 22.0      |
| 60°-70°   | 1416.8 | 31.9      |
| 70°-80°   | 628.5  | 14.2      |
| 80°-90°   | 24.8   | 0.6       |
| 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°    | 4439.0 | 100.0     |
| 0°-180°   | 4439.0 | 100.0     |

**Coefficient of Utilization**



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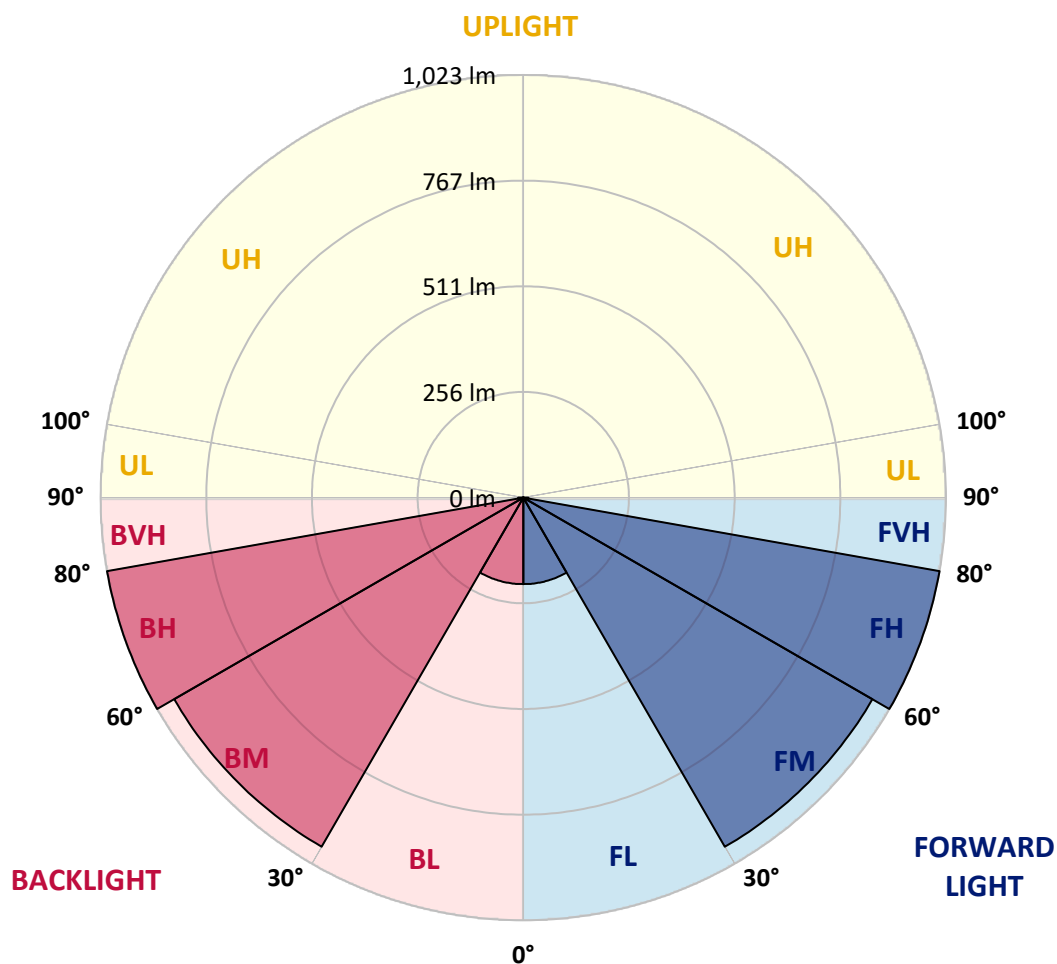
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 209.3  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 975.2  | 22.0      |                         |      |         |
| FH   | (60°-80°)   | 1022.6 | 23.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 12.4   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 209.3  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 975.2  | 22.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1022.6 | 23.0      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 12.4   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  |
| 2.5°  | 492.9  | 493.4  | 492.7  | 492.2  | 492.0  | 492.0  | 491.8  | 492.0  | 493.4  | 493.6  | 492.9  |
| 5°    | 491.5  | 492.0  | 491.8  | 491.3  | 491.1  | 491.1  | 490.8  | 490.6  | 491.8  | 492.2  | 492.0  |
| 7.5°  | 489.7  | 489.9  | 489.7  | 489.4  | 489.7  | 489.4  | 488.7  | 488.3  | 489.2  | 489.2  | 489.0  |
| 10°   | 486.4  | 486.8  | 486.6  | 486.8  | 487.3  | 487.3  | 486.4  | 485.4  | 485.7  | 485.2  | 485.2  |
| 12.5° | 482.4  | 483.1  | 483.3  | 484.3  | 485.4  | 486.8  | 484.7  | 482.6  | 482.2  | 481.9  | 481.7  |
| 15°   | 479.8  | 480.5  | 481.5  | 482.4  | 484.5  | 487.5  | 484.5  | 481.2  | 480.3  | 479.4  | 478.9  |
| 17.5° | 479.1  | 480.1  | 481.5  | 482.9  | 485.7  | 488.7  | 486.1  | 482.9  | 480.5  | 479.1  | 478.7  |
| 20°   | 481.0  | 481.7  | 483.8  | 486.4  | 490.4  | 493.4  | 490.8  | 487.3  | 483.8  | 481.7  | 481.0  |
| 22.5° | 484.7  | 485.9  | 488.5  | 493.2  | 498.8  | 503.2  | 499.7  | 493.9  | 488.3  | 485.4  | 484.5  |
| 25°   | 492.9  | 493.9  | 496.9  | 503.2  | 509.8  | 514.0  | 510.2  | 503.5  | 495.7  | 492.0  | 490.8  |
| 27.5° | 505.3  | 506.7  | 510.0  | 517.5  | 522.9  | 525.2  | 522.6  | 518.0  | 512.3  | 508.4  | 507.4  |
| 30°   | 522.9  | 524.5  | 529.4  | 537.4  | 540.9  | 542.3  | 541.1  | 538.1  | 534.1  | 529.9  | 529.0  |
| 32.5° | 546.5  | 547.4  | 553.1  | 560.5  | 563.8  | 564.3  | 562.9  | 561.5  | 554.9  | 547.9  | 547.4  |
| 35°   | 572.9  | 574.6  | 581.4  | 590.3  | 593.3  | 593.5  | 590.7  | 588.6  | 580.9  | 575.3  | 575.3  |
| 37.5° | 608.0  | 608.7  | 615.3  | 625.3  | 628.6  | 627.7  | 626.3  | 624.4  | 616.2  | 609.0  | 609.2  |
| 40°   | 649.2  | 650.6  | 656.2  | 667.9  | 667.9  | 666.8  | 667.7  | 666.3  | 658.1  | 651.1  | 651.3  |
| 42.5° | 698.1  | 698.8  | 705.6  | 718.0  | 717.1  | 714.7  | 715.6  | 713.8  | 708.6  | 700.7  | 697.9  |
| 45°   | 750.3  | 753.1  | 764.8  | 776.7  | 774.8  | 767.4  | 771.1  | 770.6  | 765.9  | 754.0  | 754.7  |
| 47.5° | 813.2  | 817.9  | 829.1  | 843.4  | 841.3  | 829.6  | 833.8  | 836.6  | 830.1  | 816.9  | 814.6  |
| 50°   | 884.1  | 887.1  | 903.7  | 917.1  | 915.2  | 902.8  | 912.4  | 912.9  | 896.5  | 878.0  | 878.0  |
| 52.5° | 959.7  | 962.7  | 985.2  | 1006.0 | 1007.1 | 989.1  | 996.9  | 996.4  | 969.7  | 945.4  | 940.7  |
| 55°   | 1044.3 | 1045.8 | 1074.8 | 1105.4 | 1112.0 | 1094.4 | 1095.3 | 1086.0 | 1051.4 | 1023.1 | 1020.5 |
| 57.5° | 1131.8 | 1137.0 | 1169.0 | 1208.8 | 1228.2 | 1217.5 | 1212.6 | 1187.5 | 1154.1 | 1121.6 | 1119.9 |
| 60°   | 1228.7 | 1228.9 | 1270.6 | 1317.6 | 1356.9 | 1364.2 | 1344.0 | 1310.6 | 1267.3 | 1224.3 | 1222.4 |
| 62.5° | 1295.8 | 1305.9 | 1358.5 | 1438.1 | 1508.5 | 1549.2 | 1496.1 | 1425.9 | 1340.8 | 1271.3 | 1264.3 |
| 65°   | 1309.6 | 1316.4 | 1396.7 | 1531.4 | 1675.3 | 1763.0 | 1640.2 | 1491.0 | 1345.7 | 1253.0 | 1248.4 |
| 67.5° | 1198.1 | 1205.3 | 1313.4 | 1520.2 | 1792.3 | 1972.2 | 1733.8 | 1459.6 | 1262.4 | 1147.8 | 1138.6 |
| 70°   | 926.7  | 934.9  | 1068.4 | 1338.2 | 1766.3 | 2037.9 | 1667.1 | 1273.1 | 1041.1 | 917.3  | 900.7  |
| 72.5° | 492.7  | 522.9  | 637.0  | 918.5  | 1433.6 | 1754.6 | 1367.0 | 929.0  | 671.4  | 548.8  | 526.9  |
| 75°   | 179.9  | 183.6  | 247.3  | 407.3  | 834.0  | 1203.2 | 866.1  | 443.1  | 254.8  | 196.8  | 186.7  |
| 77.5° | 74.4   | 74.2   | 81.4   | 123.1  | 303.0  | 616.2  | 338.1  | 130.1  | 81.2   | 75.1   | 74.2   |
| 80°   | 44.0   | 44.0   | 48.4   | 51.2   | 79.8   | 186.0  | 89.1   | 58.0   | 48.7   | 44.5   | 45.2   |
| 82.5° | 19.7   | 20.8   | 30.6   | 32.3   | 38.6   | 51.0   | 43.0   | 37.0   | 31.8   | 22.0   | 19.9   |
| 85°   | 10.8   | 9.4    | 16.1   | 16.8   | 18.5   | 18.9   | 20.4   | 20.1   | 18.5   | 10.8   | 11.0   |
| 87.5° | 2.1    | 2.6    | 4.7    | 3.5    | 4.0    | 3.5    | 4.7    | 6.6    | 6.8    | 3.7    | 3.0    |
| 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)