

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: P944851

Luminaire Tested: **GALN-SB1A-727-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

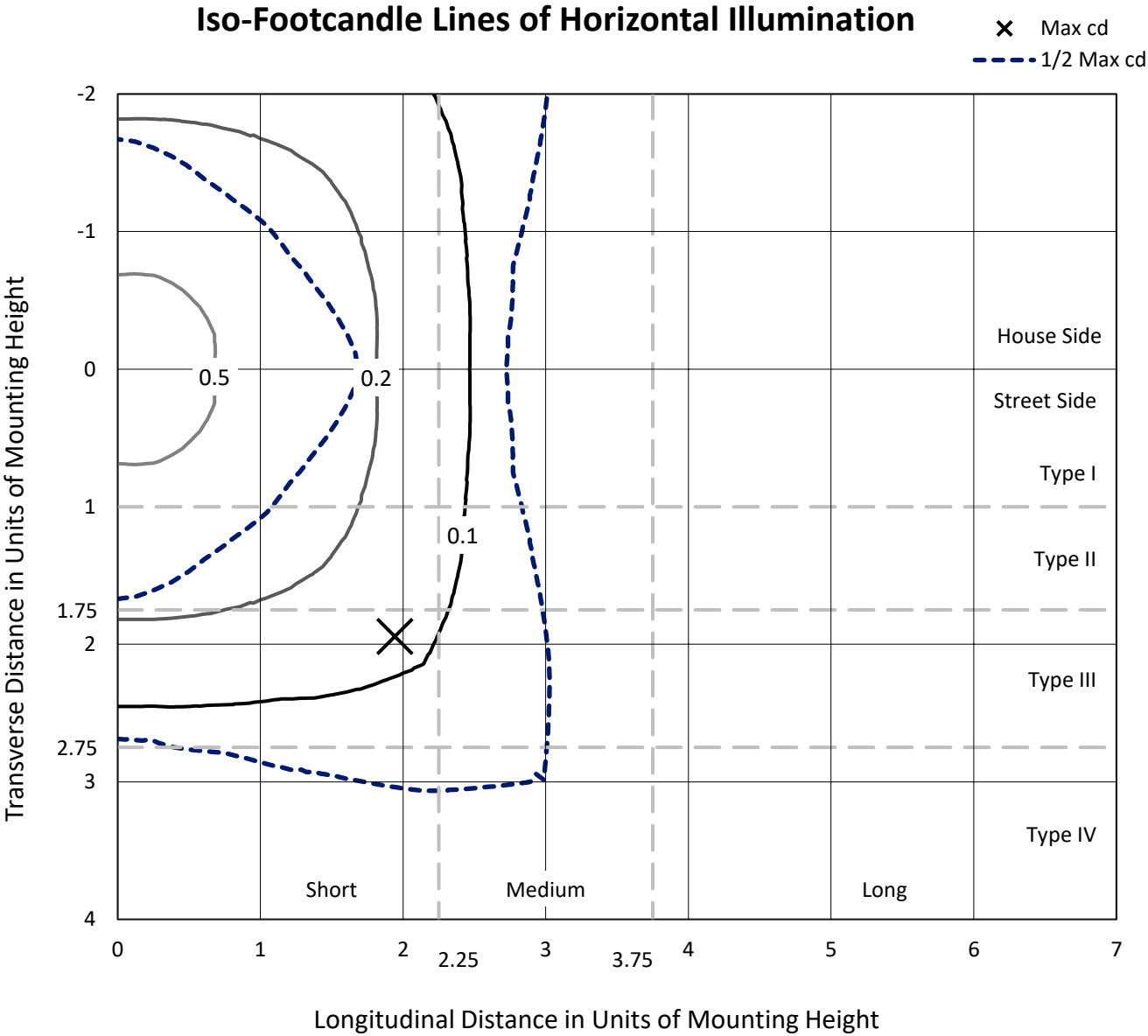
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4359 lumens  
Efficiency: N/A  
Efficacy: 141.1 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): 30.9  
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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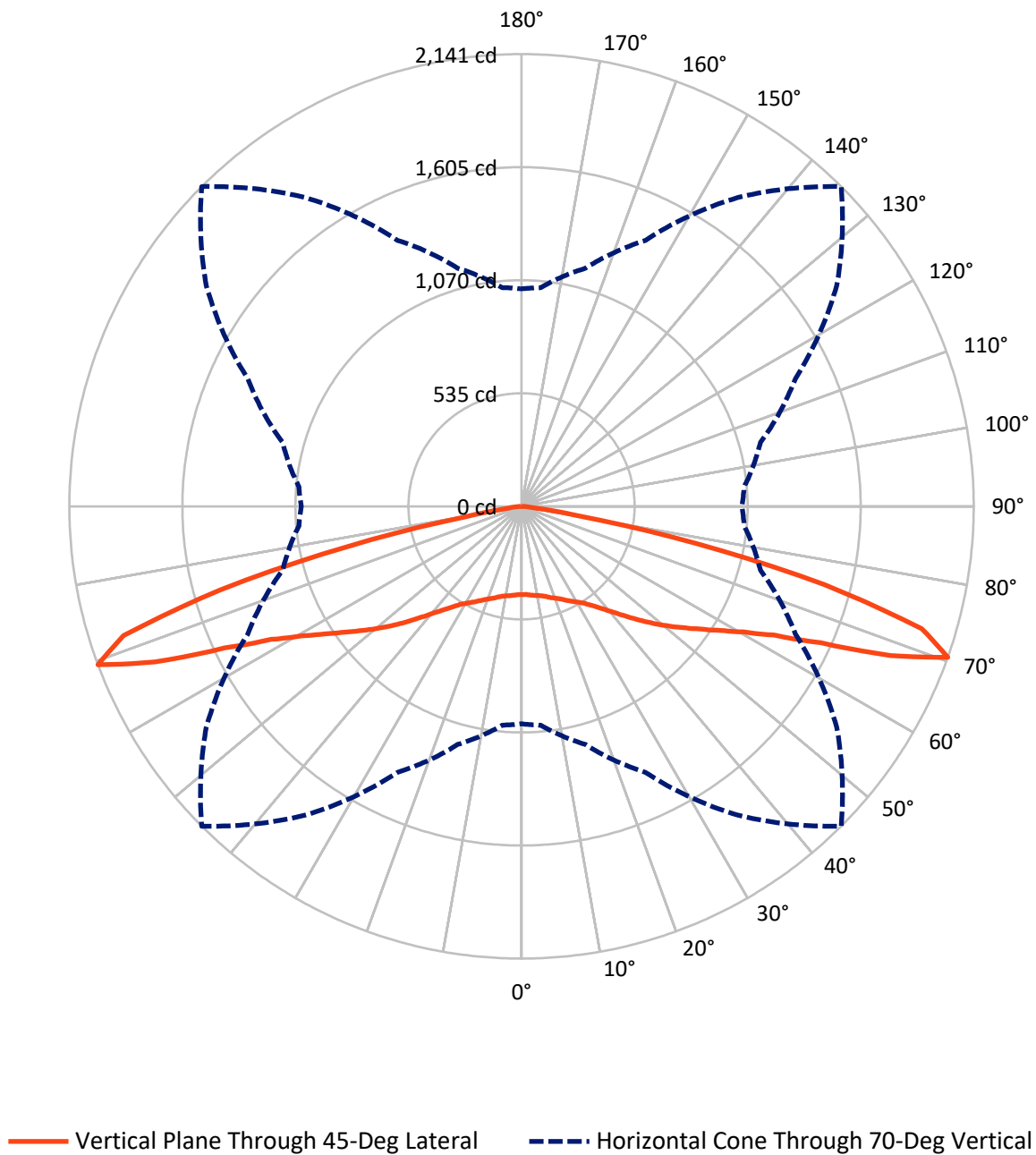


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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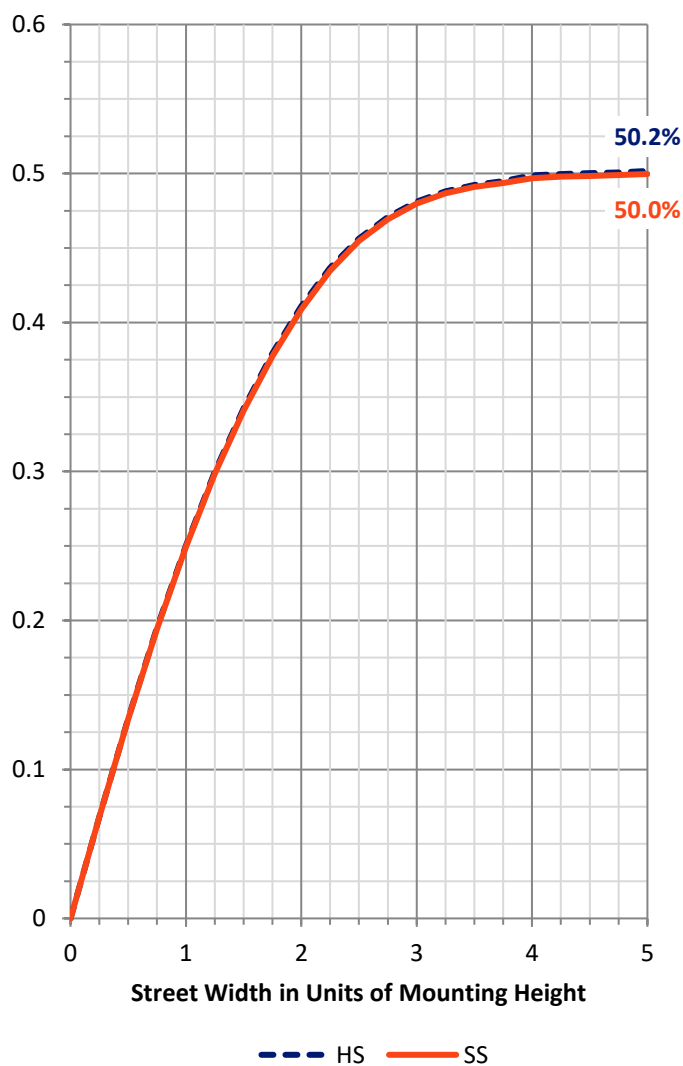
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2179.5   | 0.0    | 2179.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2179.5   | 0.0    | 2179.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4359.0   | 0.0    | 4359.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.6   | 0.9       |
| 10°-20°   | 125.8  | 2.9       |
| 20°-30°   | 224.8  | 5.2       |
| 30°-40°   | 364.4  | 8.4       |
| 40°-50°   | 593.5  | 13.6      |
| 50°-60°   | 904.9  | 20.8      |
| 60°-70°   | 1346.3 | 30.9      |
| 70°-80°   | 733.8  | 16.8      |
| 80°-90°   | 25.0   | 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°    | 4359.0 | 100.0     |
| 0°-180°   | 4359.0 | 100.0     |

**Coefficient of Utilization**



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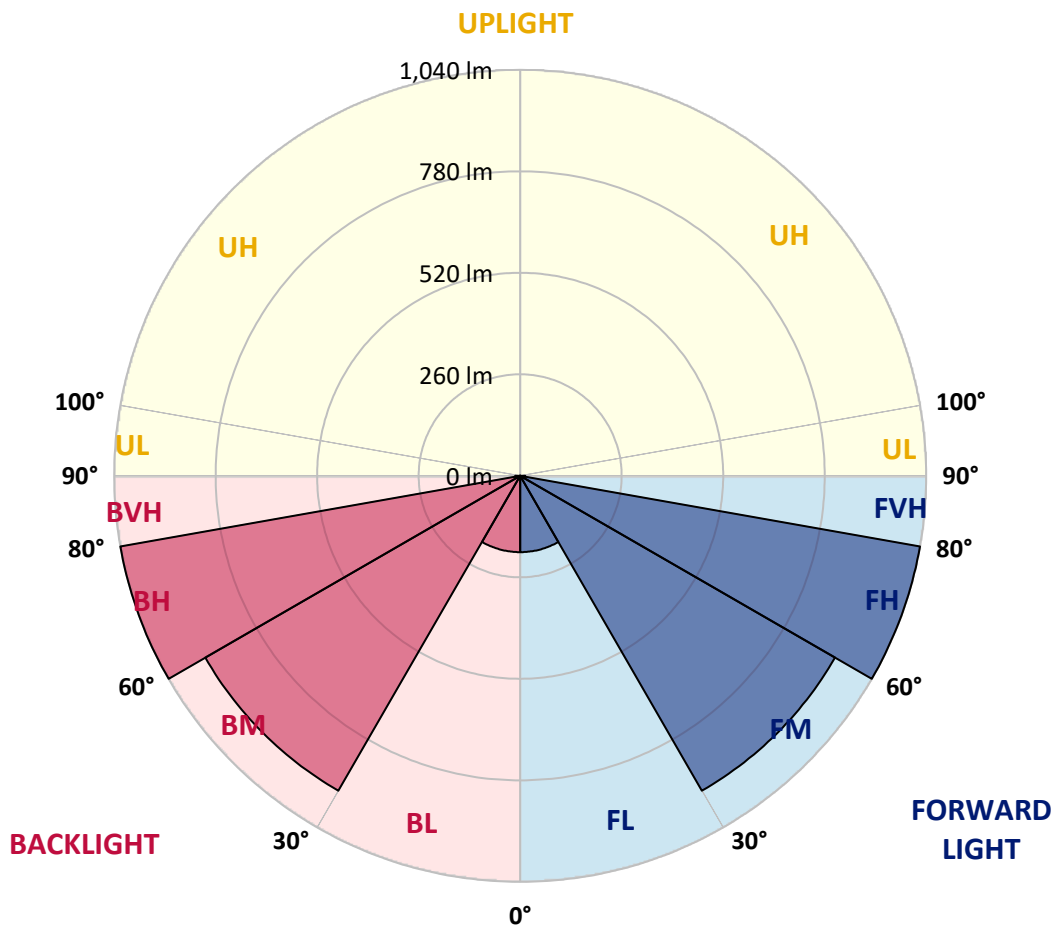
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 195.6  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 931.4  | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 1040.0 | 23.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 12.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 195.6  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 931.4  | 21.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1040.0 | 23.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 12.5   | 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°    | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  | 417.5  |
| 2.5°  | 419.5  | 420.0  | 419.1  | 418.6  | 418.2  | 417.5  | 417.8  | 418.9  | 419.7  | 419.5  | 419.7  |
| 5°    | 423.0  | 423.5  | 422.8  | 422.6  | 421.7  | 421.5  | 421.5  | 422.6  | 423.2  | 422.8  | 423.0  |
| 7.5°  | 427.0  | 427.6  | 426.5  | 426.3  | 425.9  | 425.4  | 425.2  | 426.3  | 427.0  | 427.0  | 427.0  |
| 10°   | 430.7  | 431.3  | 430.5  | 429.8  | 429.4  | 429.4  | 428.9  | 429.8  | 430.9  | 430.7  | 430.7  |
| 12.5° | 434.6  | 435.1  | 434.2  | 433.7  | 433.7  | 434.4  | 433.7  | 434.2  | 435.1  | 434.6  | 434.4  |
| 15°   | 439.4  | 439.6  | 439.4  | 440.1  | 441.2  | 443.4  | 441.4  | 441.0  | 441.4  | 440.3  | 440.3  |
| 17.5° | 446.0  | 446.4  | 447.3  | 448.8  | 450.4  | 454.3  | 450.8  | 449.7  | 449.7  | 447.5  | 447.5  |
| 20°   | 454.1  | 454.7  | 456.1  | 458.7  | 460.7  | 464.4  | 460.9  | 459.3  | 458.7  | 455.8  | 455.8  |
| 22.5° | 462.6  | 463.7  | 465.7  | 469.2  | 472.7  | 476.2  | 472.7  | 470.1  | 468.1  | 464.4  | 464.2  |
| 25°   | 472.5  | 473.8  | 476.9  | 482.5  | 487.4  | 492.4  | 488.2  | 483.0  | 479.0  | 473.8  | 473.6  |
| 27.5° | 486.5  | 488.0  | 491.7  | 498.7  | 504.9  | 509.2  | 505.3  | 498.5  | 493.0  | 486.7  | 486.5  |
| 30°   | 506.2  | 507.7  | 512.1  | 519.5  | 523.7  | 526.5  | 523.9  | 518.7  | 512.1  | 504.9  | 504.9  |
| 32.5° | 531.6  | 533.5  | 538.3  | 545.3  | 546.2  | 546.7  | 545.8  | 543.2  | 538.3  | 529.6  | 529.8  |
| 35°   | 563.7  | 565.9  | 571.4  | 577.1  | 576.2  | 577.1  | 575.8  | 574.9  | 571.4  | 561.3  | 561.3  |
| 37.5° | 603.1  | 605.7  | 611.4  | 615.8  | 613.6  | 612.5  | 612.8  | 613.0  | 611.0  | 599.8  | 599.8  |
| 40°   | 648.9  | 652.4  | 656.5  | 661.1  | 657.4  | 654.1  | 656.3  | 658.1  | 656.3  | 644.9  | 644.9  |
| 42.5° | 695.9  | 700.9  | 705.3  | 711.9  | 708.8  | 704.7  | 707.7  | 709.7  | 706.0  | 693.7  | 694.6  |
| 45°   | 748.2  | 753.0  | 758.7  | 768.6  | 766.4  | 762.0  | 766.4  | 766.8  | 760.5  | 746.0  | 747.6  |
| 47.5° | 802.3  | 807.3  | 815.8  | 829.0  | 828.1  | 823.3  | 829.0  | 825.9  | 817.8  | 800.5  | 799.4  |
| 50°   | 853.5  | 860.5  | 873.6  | 892.0  | 893.7  | 887.8  | 895.5  | 889.6  | 876.0  | 854.4  | 853.9  |
| 52.5° | 901.6  | 909.1  | 929.9  | 954.8  | 961.1  | 953.5  | 963.8  | 953.5  | 933.1  | 905.3  | 902.7  |
| 55°   | 952.2  | 960.5  | 985.2  | 1017.8 | 1030.5 | 1024.8 | 1034.5 | 1018.9 | 990.0  | 956.3  | 951.7  |
| 57.5° | 1011.7 | 1016.7 | 1046.3 | 1085.0 | 1106.5 | 1107.8 | 1112.1 | 1085.9 | 1050.9 | 1012.6 | 1007.3 |
| 60°   | 1076.3 | 1083.3 | 1115.4 | 1161.8 | 1195.7 | 1206.7 | 1202.1 | 1163.1 | 1122.4 | 1078.4 | 1071.4 |
| 62.5° | 1159.0 | 1166.6 | 1205.2 | 1260.7 | 1314.4 | 1341.5 | 1323.5 | 1267.1 | 1216.8 | 1164.0 | 1154.8 |
| 65°   | 1227.5 | 1236.0 | 1305.6 | 1404.7 | 1502.3 | 1556.8 | 1511.7 | 1407.8 | 1317.2 | 1242.8 | 1230.5 |
| 67.5° | 1177.8 | 1188.3 | 1297.5 | 1479.6 | 1722.3 | 1884.9 | 1730.6 | 1501.9 | 1324.4 | 1223.5 | 1208.4 |
| 70°   | 1029.4 | 1039.3 | 1166.6 | 1389.2 | 1784.2 | 2140.5 | 1821.4 | 1430.1 | 1170.8 | 1057.9 | 1042.8 |
| 72.5° | 683.4  | 715.2  | 844.1  | 1111.1 | 1593.2 | 1980.7 | 1608.9 | 1088.5 | 783.0  | 681.9  | 659.8  |
| 75°   | 226.7  | 252.1  | 340.1  | 576.0  | 1067.1 | 1481.3 | 1015.9 | 509.7  | 269.4  | 193.9  | 183.4  |
| 77.5° | 57.1   | 65.9   | 90.8   | 164.8  | 425.6  | 843.4  | 383.2  | 134.6  | 73.3   | 51.2   | 45.7   |
| 80°   | 27.8   | 30.6   | 43.8   | 54.9   | 106.6  | 268.1  | 100.0  | 51.6   | 34.6   | 26.7   | 24.5   |
| 82.5° | 15.3   | 15.5   | 24.7   | 31.1   | 39.6   | 69.4   | 41.1   | 30.2   | 19.9   | 16.2   | 16.2   |
| 85°   | 9.4    | 9.2    | 13.1   | 16.6   | 16.6   | 24.7   | 19.7   | 16.6   | 11.4   | 10.1   | 10.5   |
| 87.5° | 3.7    | 3.7    | 4.8    | 5.3    | 4.6    | 6.3    | 5.0    | 5.5    | 4.4    | 4.2    | 4.4    |
| 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)