

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: P944876

Luminaire Tested: **GALN-SB1A-730-U-RW**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-730-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4621 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
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

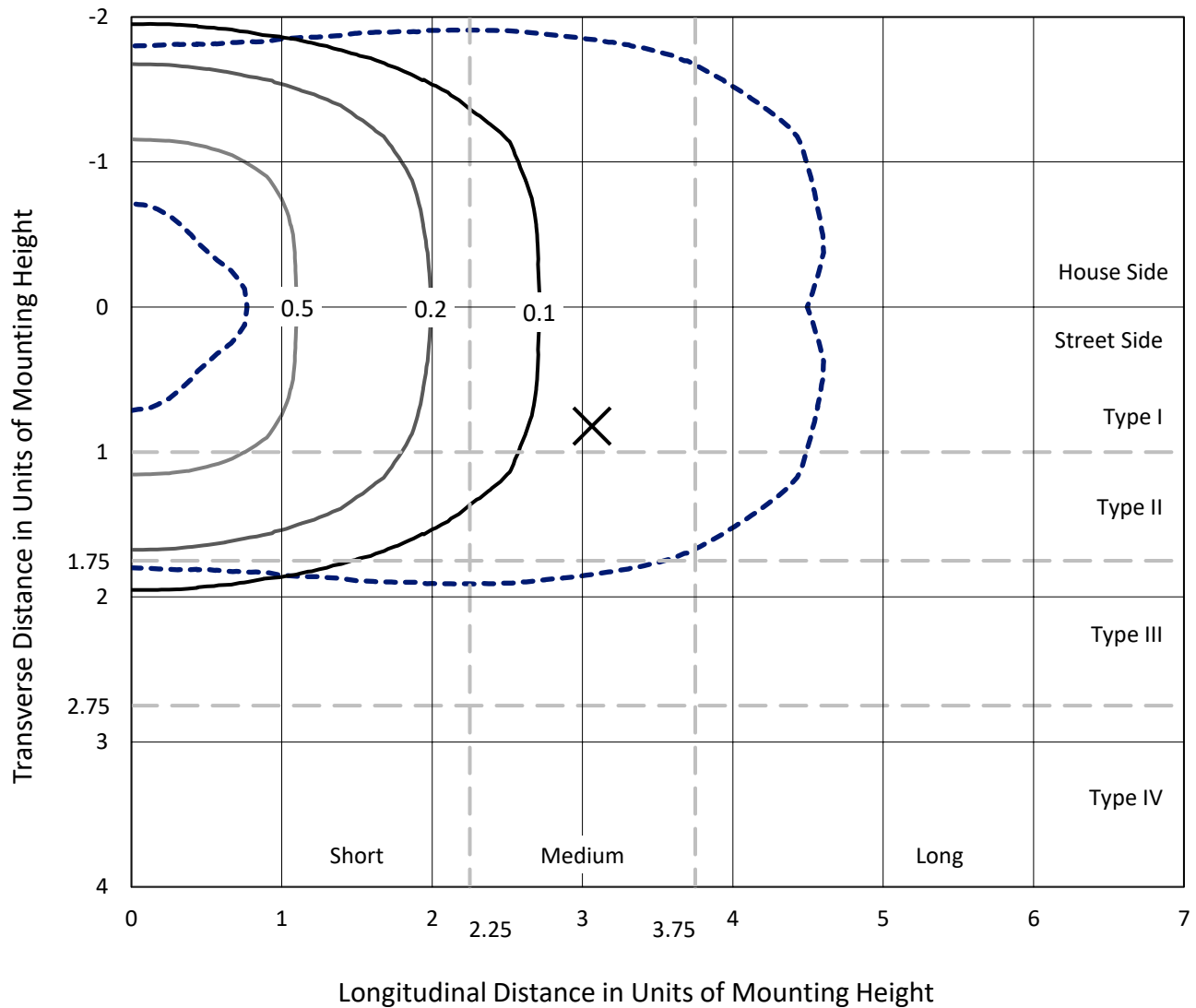


REPORT NUMBER: P944876

CATALOG NUMBER: GALN-SB1A-730-U-RW

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

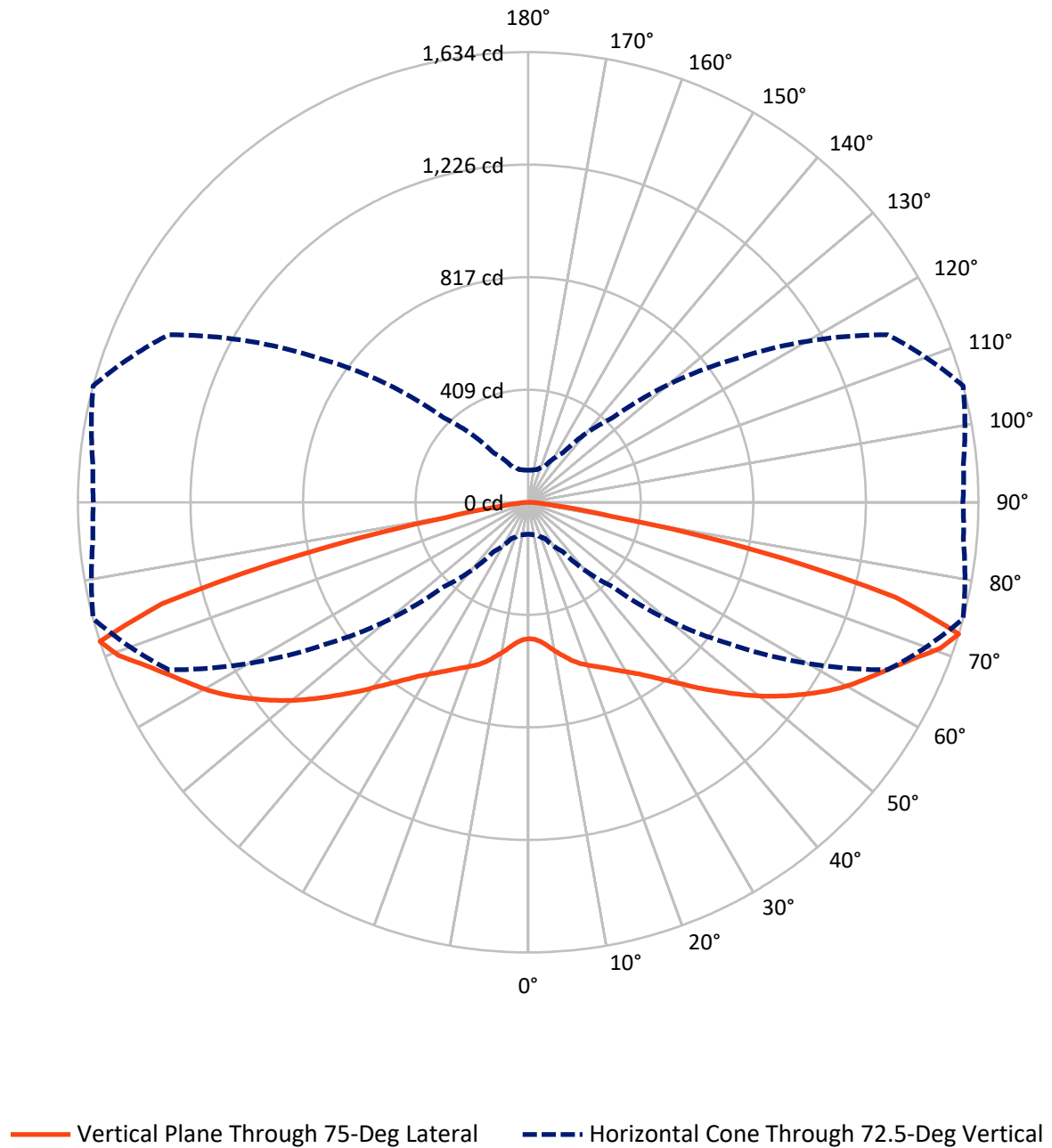


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
Type III - Medium - N/A

REPORT NUMBER: P944876

CATALOG NUMBER: GALN-SB1A-730-U-RW

## Luminous Intensity Polar Plot



REPORT NUMBER: P944876

CATALOG NUMBER: GALN-SB1A-730-U-RW

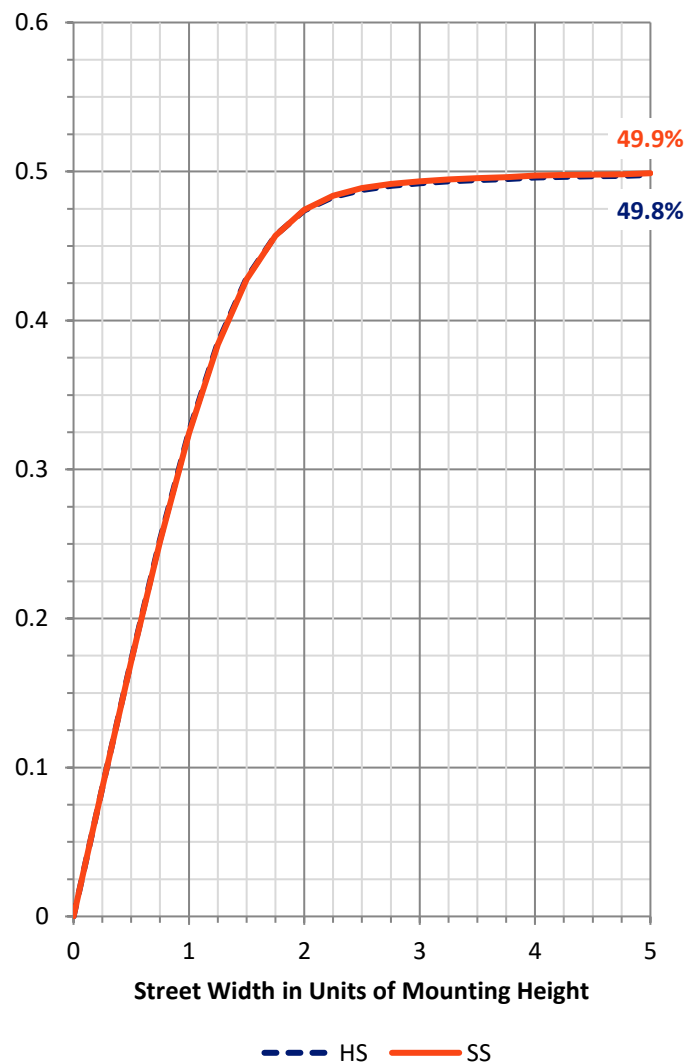
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2310.5   | 0.0    | 2310.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2310.5   | 0.0    | 2310.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4621.0   | 0.0    | 4621.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.5   | 1.0       |
| 10°-20°   | 159.9  | 3.5       |
| 20°-30°   | 309.0  | 6.7       |
| 30°-40°   | 521.8  | 11.3      |
| 40°-50°   | 827.5  | 17.9      |
| 50°-60°   | 1108.0 | 24.0      |
| 60°-70°   | 1054.4 | 22.8      |
| 70°-80°   | 550.2  | 11.9      |
| 80°-90°   | 41.6   | 0.9       |
| 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°    | 4621.0 | 100.0     |
| 0°-180°   | 4621.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944876

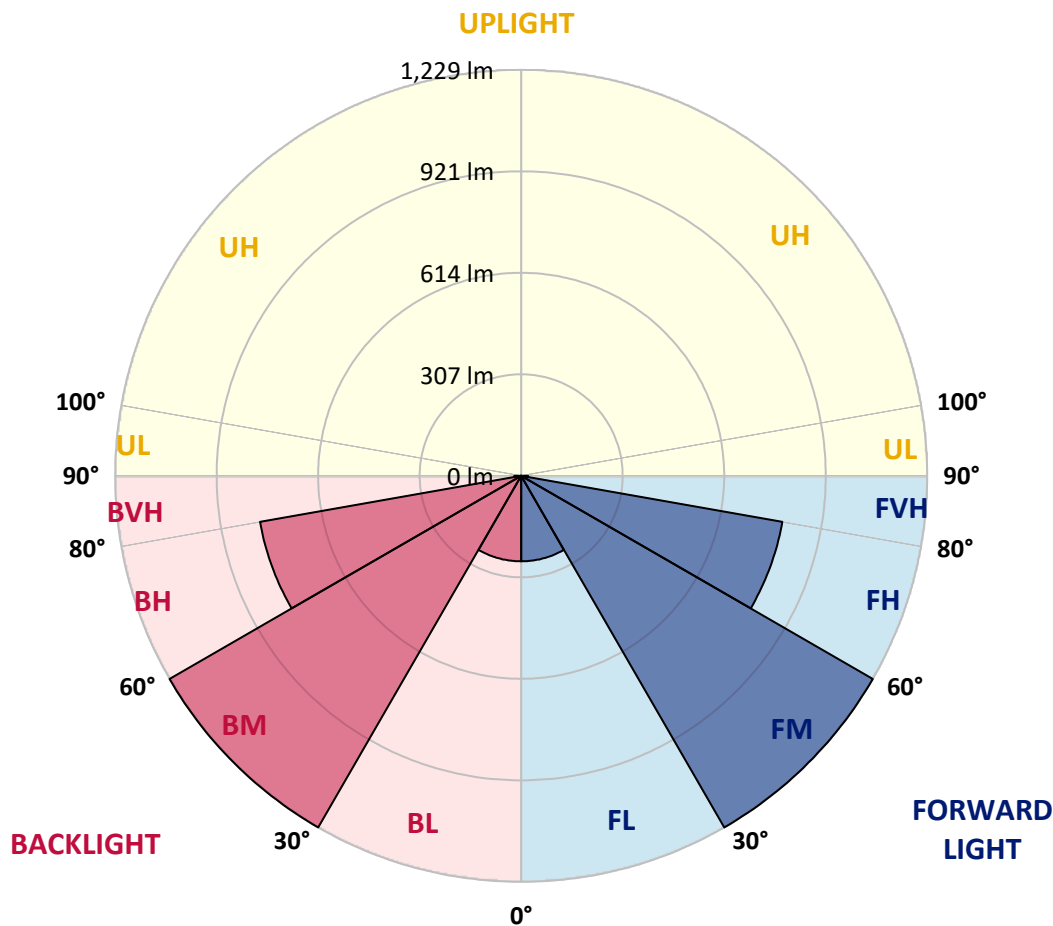
CATALOG NUMBER: GALN-SB1A-730-U-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 258.7  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1228.6 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 802.3  | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 258.7  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1228.6 | 26.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 802.3  | 17.4      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 20.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium



REPORT NUMBER: P944876

CATALOG NUMBER: GALN-SB1A-730-U-RW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  | 495.0  |
| 2.5°  | 495.0  | 494.5  | 495.0  | 495.5  | 495.2  | 495.2  | 496.4  | 497.1  | 498.5  | 498.3  | 498.1  |
| 5°    | 491.7  | 491.5  | 493.3  | 495.5  | 497.1  | 499.9  | 503.5  | 506.1  | 509.4  | 510.1  | 510.1  |
| 7.5°  | 490.0  | 489.3  | 492.6  | 496.4  | 501.6  | 508.7  | 515.5  | 522.6  | 528.3  | 530.1  | 530.6  |
| 10°   | 491.2  | 491.5  | 495.9  | 503.0  | 511.3  | 521.2  | 530.9  | 542.9  | 550.9  | 552.8  | 554.7  |
| 12.5° | 496.6  | 496.2  | 503.7  | 515.0  | 526.4  | 538.9  | 550.2  | 563.4  | 572.1  | 576.6  | 578.5  |
| 15°   | 506.6  | 505.6  | 516.2  | 533.0  | 549.5  | 564.1  | 573.3  | 585.8  | 596.0  | 601.6  | 603.8  |
| 17.5° | 518.3  | 518.8  | 532.7  | 554.4  | 576.2  | 592.7  | 601.4  | 607.8  | 615.6  | 620.5  | 622.9  |
| 20°   | 539.1  | 540.1  | 555.6  | 581.3  | 606.1  | 625.0  | 632.1  | 629.7  | 631.8  | 635.6  | 638.4  |
| 22.5° | 567.0  | 567.4  | 584.9  | 612.7  | 638.7  | 659.4  | 664.2  | 654.5  | 648.6  | 651.2  | 653.1  |
| 25°   | 599.3  | 602.3  | 619.8  | 648.3  | 675.0  | 694.8  | 697.0  | 682.3  | 667.7  | 668.4  | 669.6  |
| 27.5° | 638.7  | 641.5  | 659.2  | 687.5  | 714.6  | 731.9  | 731.6  | 712.1  | 690.6  | 685.2  | 686.8  |
| 30°   | 681.4  | 684.4  | 702.6  | 731.9  | 757.1  | 772.2  | 768.9  | 745.6  | 714.9  | 704.7  | 705.9  |
| 32.5° | 732.1  | 734.0  | 752.4  | 781.7  | 805.0  | 817.0  | 810.2  | 781.4  | 743.2  | 731.6  | 734.5  |
| 35°   | 793.4  | 796.3  | 810.0  | 837.6  | 858.1  | 868.0  | 856.4  | 822.5  | 779.5  | 766.6  | 768.4  |
| 37.5° | 863.5  | 861.6  | 877.2  | 901.7  | 918.7  | 924.9  | 909.1  | 868.7  | 821.1  | 805.7  | 808.5  |
| 40°   | 936.7  | 935.7  | 952.7  | 976.3  | 985.5  | 989.3  | 965.9  | 921.8  | 868.9  | 852.4  | 857.9  |
| 42.5° | 1003.0 | 1002.3 | 1025.1 | 1051.3 | 1062.4 | 1058.2 | 1028.7 | 978.2  | 924.4  | 905.5  | 910.2  |
| 45°   | 1056.0 | 1055.1 | 1083.2 | 1120.0 | 1141.7 | 1134.6 | 1095.0 | 1040.5 | 980.5  | 961.0  | 965.4  |
| 47.5° | 1096.9 | 1097.3 | 1127.5 | 1173.1 | 1211.1 | 1213.7 | 1162.7 | 1103.9 | 1042.4 | 1020.2 | 1026.8 |
| 50°   | 1126.4 | 1127.8 | 1160.1 | 1210.6 | 1262.5 | 1285.4 | 1231.8 | 1169.1 | 1106.3 | 1081.3 | 1088.8 |
| 52.5° | 1133.7 | 1136.3 | 1175.2 | 1234.4 | 1295.5 | 1339.2 | 1302.1 | 1231.6 | 1166.9 | 1143.1 | 1149.2 |
| 55°   | 1094.7 | 1099.9 | 1149.2 | 1232.5 | 1315.8 | 1374.6 | 1363.9 | 1295.0 | 1228.0 | 1203.5 | 1210.3 |
| 57.5° | 1005.3 | 1012.6 | 1070.2 | 1179.0 | 1311.3 | 1398.9 | 1411.8 | 1355.9 | 1289.1 | 1265.6 | 1271.0 |
| 60°   | 880.0  | 888.8  | 944.0  | 1062.7 | 1248.1 | 1407.8 | 1445.6 | 1415.1 | 1345.3 | 1322.4 | 1327.4 |
| 62.5° | 691.1  | 702.4  | 768.4  | 907.6  | 1114.6 | 1366.1 | 1474.4 | 1468.7 | 1395.8 | 1367.2 | 1370.5 |
| 65°   | 443.3  | 455.4  | 525.0  | 689.4  | 936.4  | 1238.2 | 1483.3 | 1520.8 | 1449.1 | 1409.2 | 1414.2 |
| 67.5° | 267.3  | 272.7  | 307.2  | 417.8  | 684.4  | 1045.4 | 1407.4 | 1578.6 | 1511.4 | 1461.9 | 1465.6 |
| 70°   | 171.1  | 174.1  | 194.6  | 245.4  | 386.9  | 762.8  | 1219.1 | 1589.5 | 1586.9 | 1515.9 | 1515.4 |
| 72.5° | 116.1  | 117.0  | 122.5  | 145.3  | 218.9  | 433.4  | 899.1  | 1439.0 | 1634.1 | 1585.5 | 1577.9 |
| 75°   | 84.9   | 90.1   | 98.9   | 102.9  | 124.3  | 216.6  | 515.3  | 1011.0 | 1377.2 | 1398.4 | 1347.0 |
| 77.5° | 63.2   | 63.5   | 75.5   | 80.2   | 88.7   | 115.4  | 218.0  | 564.4  | 855.0  | 897.7  | 800.8  |
| 80°   | 53.6   | 50.7   | 50.5   | 64.6   | 66.8   | 72.0   | 97.4   | 194.9  | 306.2  | 185.7  | 140.4  |
| 82.5° | 44.6   | 41.5   | 37.5   | 50.5   | 45.5   | 44.1   | 42.2   | 79.3   | 97.4   | 47.9   | 40.8   |
| 85°   | 31.1   | 29.7   | 28.3   | 33.0   | 26.0   | 22.2   | 20.3   | 37.0   | 41.1   | 20.3   | 17.9   |
| 87.5° | 13.4   | 13.9   | 14.2   | 14.6   | 10.9   | 7.8    | 7.8    | 10.4   | 10.4   | 8.0    | 5.9    |
| 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)