

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: P955438

Luminaire Tested: **GALN-SB8B-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8B-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

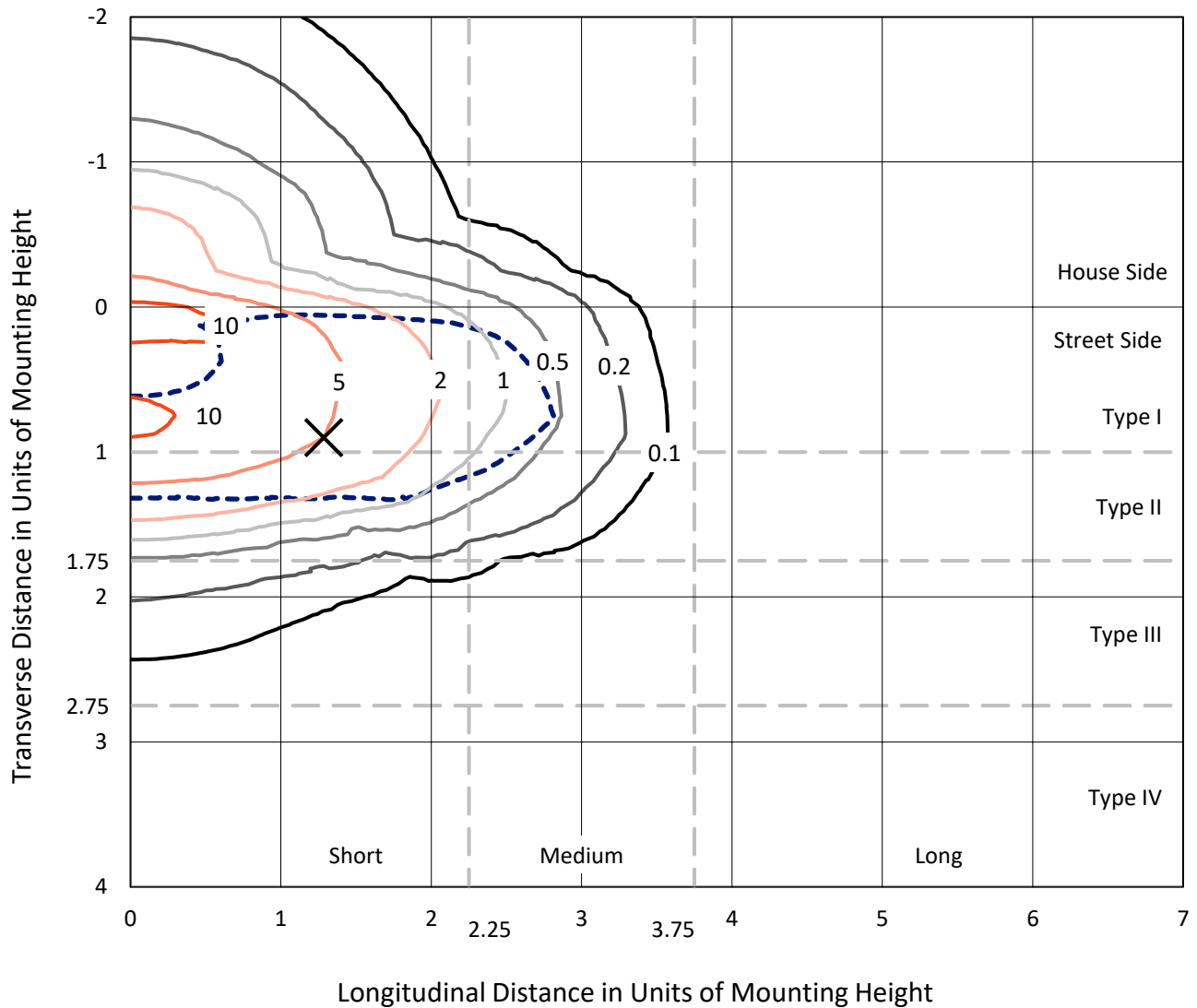
Lumens per Lamp: N/A  
Luminaire Lumens: 28188 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P955438  
 CATALOG NUMBER: GALN-SB8B-927-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

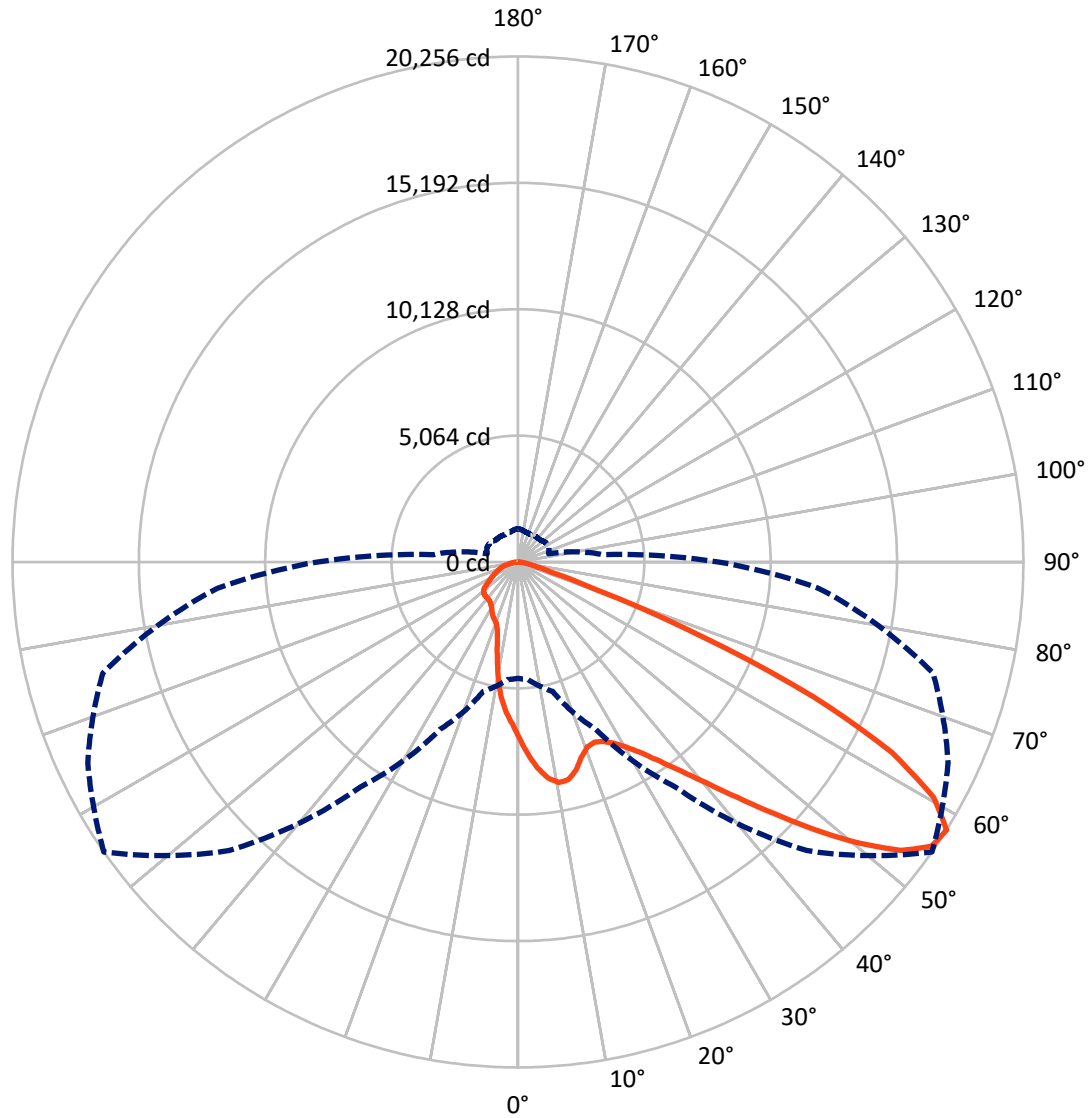
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P955438  
CATALOG NUMBER: GALN-SB8B-927-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P955438

CATALOG NUMBER: GALN-SB8B-927-U-AFL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5100.5   | 0.0    | 5100.5  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 23087.5  | 0.0    | 23087.5 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 28188.0  | 0.0    | 28188.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 655.4   | 2.3       |
| 10°-20°   | 1654.3  | 5.9       |
| 20°-30°   | 2639.7  | 9.4       |
| 30°-40°   | 4179.4  | 14.8      |
| 40°-50°   | 6396.9  | 22.7      |
| 50°-60°   | 6851.7  | 24.3      |
| 60°-70°   | 4310.5  | 15.3      |
| 70°-80°   | 1274.7  | 4.5       |
| 80°-90°   | 225.4   | 0.8       |
| 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°    | 28188.0 | 100.0     |
| 0°-180°   | 28188.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P955438

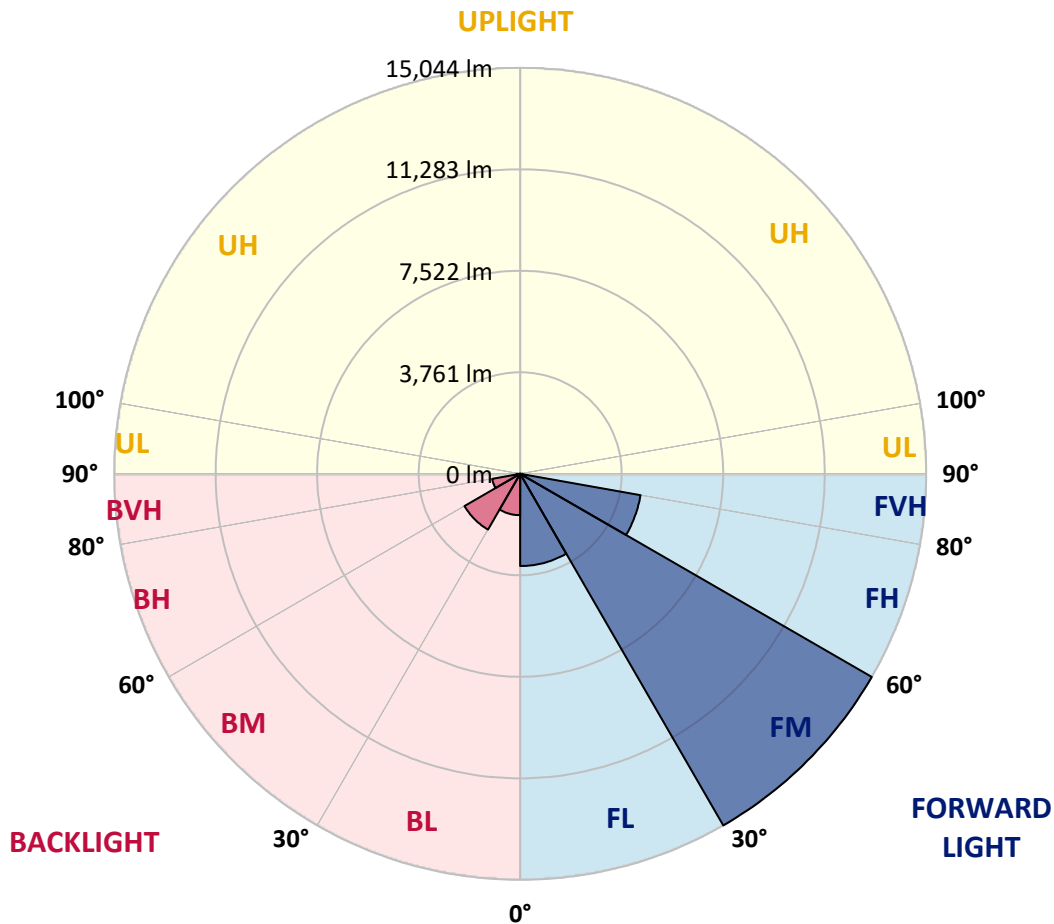
CATALOG NUMBER: GALN-SB8B-927-U-AFL

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3416.4  | 12.1      |                         |      |         |
| FM (30°-60°)   | 15044.1 | 53.4      |                         |      |         |
| FH (60°-80°)   | 4531.8  | 16.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 95.2    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1533.0  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2383.9  | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 1053.4  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 130.2   | 0.5       |                         |      | 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 II Short



REPORT NUMBER: P955438

CATALOG NUMBER: GALN-SB8B-927-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  | 7063.0  |
| 2.5°  | 8103.4  | 8097.6  | 8129.7  | 8020.4  | 7946.1  | 7845.5  | 7712.9  | 7543.9  | 7361.7  | 7169.4  |
| 5°    | 8833.5  | 8782.5  | 8816.0  | 8734.4  | 8652.8  | 8501.2  | 8304.5  | 8029.1  | 7692.5  | 7309.3  |
| 7.5°  | 8718.4  | 8683.4  | 8769.4  | 8842.2  | 8903.4  | 8884.5  | 8740.2  | 8451.7  | 8017.5  | 7460.8  |
| 10°   | 7790.1  | 7750.8  | 7871.7  | 8123.8  | 8494.0  | 8816.0  | 8990.9  | 8811.6  | 8349.7  | 7626.9  |
| 12.5° | 6971.2  | 6952.3  | 7032.4  | 7236.4  | 7647.3  | 8265.2  | 8958.8  | 9126.4  | 8695.1  | 7823.7  |
| 15°   | 6621.5  | 6598.2  | 6649.2  | 6752.6  | 7014.9  | 7590.5  | 8667.4  | 9342.0  | 9034.6  | 8051.0  |
| 17.5° | 6544.2  | 6518.0  | 6539.9  | 6593.8  | 6762.8  | 7201.4  | 8227.3  | 9448.4  | 9388.7  | 8304.5  |
| 20°   | 6687.0  | 6665.2  | 6668.1  | 6665.2  | 6783.2  | 7131.5  | 7921.3  | 9407.6  | 9697.6  | 8537.7  |
| 22.5° | 7032.4  | 6996.0  | 6997.4  | 6920.2  | 6984.3  | 7253.9  | 7841.1  | 9298.3  | 9973.0  | 8741.7  |
| 25°   | 7594.9  | 7529.3  | 7542.4  | 7345.7  | 7328.2  | 7527.8  | 7966.5  | 9213.8  | 10247.0 | 8904.9  |
| 27.5° | 8364.3  | 8290.0  | 8250.6  | 7957.7  | 7817.8  | 7916.9  | 8221.5  | 9243.0  | 10506.3 | 9046.2  |
| 30°   | 9326.0  | 9235.7  | 9155.5  | 8740.2  | 8486.7  | 8450.2  | 8617.8  | 9435.3  | 10812.3 | 9194.9  |
| 32.5° | 10504.9 | 10400.0 | 10254.2 | 9703.4  | 9346.4  | 9155.5  | 9130.7  | 9777.7  | 11170.8 | 9384.3  |
| 35°   | 11908.2 | 11771.2 | 11564.3 | 10851.7 | 10400.0 | 10009.4 | 9806.9  | 10271.7 | 11661.9 | 9669.9  |
| 37.5° | 13353.7 | 13199.2 | 13009.8 | 12161.7 | 11606.5 | 11030.9 | 10631.7 | 10942.0 | 12316.2 | 10057.5 |
| 40°   | 14687.0 | 14513.6 | 14337.3 | 13582.5 | 12986.5 | 12292.9 | 11641.5 | 11790.1 | 13116.2 | 10520.9 |
| 42.5° | 15473.9 | 15345.7 | 15278.6 | 14870.6 | 14410.1 | 13706.3 | 12897.6 | 12795.6 | 14015.2 | 11054.2 |
| 45°   | 15438.9 | 15386.5 | 15593.4 | 15762.4 | 15653.1 | 15262.6 | 14369.3 | 13907.4 | 14917.2 | 11516.2 |
| 47.5° | 14614.2 | 14649.1 | 15111.1 | 16061.1 | 16479.4 | 16683.4 | 16045.1 | 14998.9 | 15701.2 | 11861.5 |
| 50°   | 12370.1 | 12399.2 | 13468.8 | 15517.6 | 16692.1 | 17841.8 | 17707.8 | 16064.1 | 16308.9 | 12072.8 |
| 52.5° | 10593.8 | 10612.7 | 11071.7 | 13906.0 | 15989.7 | 18424.7 | 19205.8 | 17068.1 | 16753.3 | 12131.1 |
| 55°   | 7979.6  | 8045.1  | 8559.5  | 10910.0 | 14162.4 | 17962.8 | 20118.0 | 18102.7 | 17034.5 | 12136.9 |
| 57.5° | 4661.5  | 4733.0  | 5368.3  | 7405.4  | 11007.6 | 16352.6 | 20256.4 | 19020.7 | 17225.4 | 12090.3 |
| 60°   | 2283.4  | 2314.0  | 2590.9  | 3892.2  | 6787.6  | 13250.2 | 19143.1 | 19465.1 | 17331.8 | 12065.5 |
| 62.5° | 1538.8  | 1534.4  | 1546.1  | 1920.6  | 3344.3  | 8512.9  | 16823.3 | 18687.0 | 17275.0 | 11970.8 |
| 65°   | 1323.1  | 1307.1  | 1263.4  | 1347.9  | 1732.6  | 3893.6  | 12998.1 | 16364.2 | 16842.2 | 11733.3 |
| 67.5° | 1143.9  | 1145.4  | 1146.8  | 1120.6  | 1237.2  | 1796.7  | 7943.1  | 12890.3 | 15288.8 | 10608.3 |
| 70°   | 947.2   | 960.3   | 966.1   | 966.1   | 1008.4  | 1178.9  | 3390.9  | 8834.9  | 12059.7 | 8317.6  |
| 72.5° | 862.7   | 835.0   | 837.9   | 823.3   | 823.3   | 897.6   | 1365.4  | 5008.4  | 7597.8  | 4679.0  |
| 75°   | 703.8   | 721.3   | 724.2   | 714.0   | 680.5   | 684.9   | 810.2   | 2101.3  | 3251.0  | 1941.0  |
| 77.5° | 607.6   | 607.6   | 613.5   | 606.2   | 580.0   | 512.9   | 540.6   | 814.6   | 1106.0  | 795.6   |
| 80°   | 488.2   | 486.7   | 511.5   | 526.0   | 485.2   | 378.9   | 345.4   | 450.3   | 491.1   | 349.7   |
| 82.5° | 237.5   | 252.1   | 351.2   | 400.7   | 368.7   | 274.0   | 211.3   | 279.8   | 262.3   | 154.5   |
| 85°   | 138.4   | 131.1   | 157.4   | 223.0   | 211.3   | 151.5   | 102.0   | 145.7   | 137.0   | 78.7    |
| 87.5° | 43.7    | 40.8    | 32.1    | 75.8    | 61.2    | 42.3    | 27.7    | 42.3    | 37.9    | 17.5    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P955438  
 CATALOG NUMBER: GALN-SB8B-927-U-AFL

**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7063.0 | 0°    | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 | 7063.0 |
| 7086.3 | 2.5°  | 6982.9 | 6810.9 | 6640.4 | 6484.5 | 6389.8 | 6328.6 | 6267.4 | 6198.9 | 6172.7 | 6133.3 |
| 7105.3 | 5°    | 6912.9 | 6580.7 | 6284.9 | 6029.9 | 5798.2 | 5616.0 | 5432.4 | 5283.8 | 5216.7 | 5261.9 |
| 7165.0 | 7.5°  | 6872.1 | 6391.2 | 5935.1 | 5467.4 | 5017.1 | 4657.2 | 4343.9 | 4123.8 | 4024.8 | 4049.5 |
| 7223.3 | 10°   | 6835.7 | 6177.0 | 5481.9 | 4743.2 | 4096.2 | 3650.3 | 3329.7 | 3162.1 | 3099.4 | 3112.6 |
| 7302.0 | 12.5° | 6802.2 | 5936.6 | 4935.5 | 3963.6 | 3275.8 | 2981.4 | 2889.6 | 2891.1 | 2902.7 | 2911.5 |
| 7427.3 | 15°   | 6796.3 | 5646.6 | 4324.9 | 3281.6 | 2832.8 | 2813.8 | 2912.9 | 2975.6 | 3009.1 | 3019.3 |
| 7532.2 | 17.5° | 6787.6 | 5299.8 | 3702.7 | 2816.7 | 2724.9 | 2853.2 | 2945.0 | 2985.8 | 3012.0 | 3013.5 |
| 7634.2 | 20°   | 6752.6 | 4859.7 | 3128.6 | 2595.3 | 2701.6 | 2812.4 | 2869.2 | 2901.3 | 2923.1 | 2930.4 |
| 7711.4 | 22.5° | 6644.8 | 4370.1 | 2681.2 | 2496.2 | 2608.4 | 2697.3 | 2764.3 | 2800.7 | 2813.8 | 2822.6 |
| 7726.0 | 25°   | 6451.0 | 3822.2 | 2372.3 | 2401.4 | 2478.7 | 2590.9 | 2644.8 | 2652.1 | 2647.7 | 2660.8 |
| 7689.6 | 27.5° | 6197.4 | 3235.0 | 2180.0 | 2273.2 | 2372.3 | 2468.5 | 2497.6 | 2493.3 | 2484.5 | 2499.1 |
| 7626.9 | 30°   | 5891.4 | 2707.5 | 2057.6 | 2129.0 | 2264.5 | 2351.9 | 2378.1 | 2367.9 | 2350.4 | 2366.5 |
| 7594.9 | 32.5° | 5567.9 | 2276.1 | 1957.0 | 2028.4 | 2175.6 | 2261.6 | 2287.8 | 2277.6 | 2264.5 | 2277.6 |
| 7631.3 | 35°   | 5266.3 | 1974.5 | 1863.7 | 1961.4 | 2105.6 | 2190.2 | 2223.7 | 2225.1 | 2225.1 | 2241.2 |
| 7727.5 | 37.5° | 4989.4 | 1798.2 | 1786.5 | 1919.1 | 2057.6 | 2133.3 | 2181.4 | 2184.3 | 2121.7 | 2126.0 |
| 7890.7 | 40°   | 4733.0 | 1723.9 | 1751.5 | 1891.4 | 2010.9 | 2083.8 | 2086.7 | 1923.5 | 1808.4 | 1805.5 |
| 8077.2 | 42.5° | 4523.1 | 1709.3 | 1761.7 | 1888.5 | 1977.4 | 1980.3 | 1774.9 | 1648.1 | 1616.0 | 1617.5 |
| 8249.2 | 45°   | 4326.4 | 1704.9 | 1785.1 | 1888.5 | 1927.9 | 1710.7 | 1572.3 | 1538.8 | 1541.7 | 1553.4 |
| 8326.4 | 47.5° | 4106.4 | 1687.4 | 1789.4 | 1862.3 | 1785.1 | 1521.3 | 1480.5 | 1465.9 | 1460.1 | 1463.0 |
| 8308.9 | 50°   | 3865.9 | 1624.8 | 1734.1 | 1809.8 | 1540.2 | 1439.7 | 1388.7 | 1384.3 | 1391.6 | 1396.0 |
| 8211.3 | 52.5° | 3612.4 | 1522.8 | 1639.3 | 1715.1 | 1428.0 | 1368.3 | 1311.5 | 1321.7 | 1353.7 | 1363.9 |
| 8109.3 | 55°   | 3446.3 | 1403.3 | 1514.0 | 1525.7 | 1349.4 | 1301.3 | 1253.2 | 1276.5 | 1336.2 | 1355.2 |
| 8048.1 | 57.5° | 3402.5 | 1276.5 | 1371.2 | 1358.1 | 1248.8 | 1243.0 | 1213.8 | 1234.2 | 1310.0 | 1337.7 |
| 8045.1 | 60°   | 3389.4 | 1162.8 | 1231.3 | 1221.1 | 1151.2 | 1178.9 | 1171.6 | 1181.8 | 1208.0 | 1216.8 |
| 8016.0 | 62.5° | 3287.4 | 1072.5 | 1106.0 | 1091.4 | 1063.7 | 1111.8 | 1129.3 | 1107.5 | 1127.9 | 1138.1 |
| 7816.4 | 65°   | 3028.0 | 999.6  | 983.6  | 973.4  | 985.1  | 1028.8 | 1063.7 | 1020.0 | 1039.0 | 1068.1 |
| 7047.0 | 67.5° | 2599.6 | 900.5  | 856.8  | 868.5  | 904.9  | 928.2  | 973.4  | 923.9  | 939.9  | 989.4  |
| 5675.8 | 70°   | 2102.7 | 775.2  | 735.9  | 769.4  | 804.4  | 852.5  | 859.7  | 826.2  | 864.1  | 919.5  |
| 3463.7 | 72.5° | 1487.8 | 648.4  | 620.8  | 689.3  | 700.9  | 763.6  | 747.5  | 731.5  | 784.0  | 802.9  |
| 1712.2 | 75°   | 1031.7 | 523.1  | 507.1  | 559.6  | 601.8  | 655.7  | 644.1  | 663.0  | 773.8  | 782.5  |
| 855.4  | 77.5° | 652.8  | 406.6  | 396.4  | 429.9  | 488.2  | 547.9  | 566.8  | 782.5  | 1321.7 | 1374.1 |
| 444.4  | 80°   | 378.9  | 303.1  | 291.4  | 317.7  | 368.7  | 424.0  | 546.4  | 960.3  | 871.4  | 861.2  |
| 199.6  | 82.5° | 211.3  | 208.4  | 193.8  | 201.1  | 246.3  | 306.0  | 772.3  | 676.1  | 549.4  | 566.8  |
| 80.1   | 85°   | 99.1   | 122.4  | 104.9  | 100.5  | 138.4  | 358.5  | 515.8  | 386.2  | 256.5  | 250.6  |
| 17.5   | 87.5° | 26.2   | 23.3   | 23.3   | 26.2   | 58.3   | 308.9  | 205.5  | 164.7  | 97.6   | 94.7   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF RI

