

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: P955522

Luminaire Tested: **GALN-SB8B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955522
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-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32215 lumens
Efficiency: N/A
Efficacy: 110.0 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

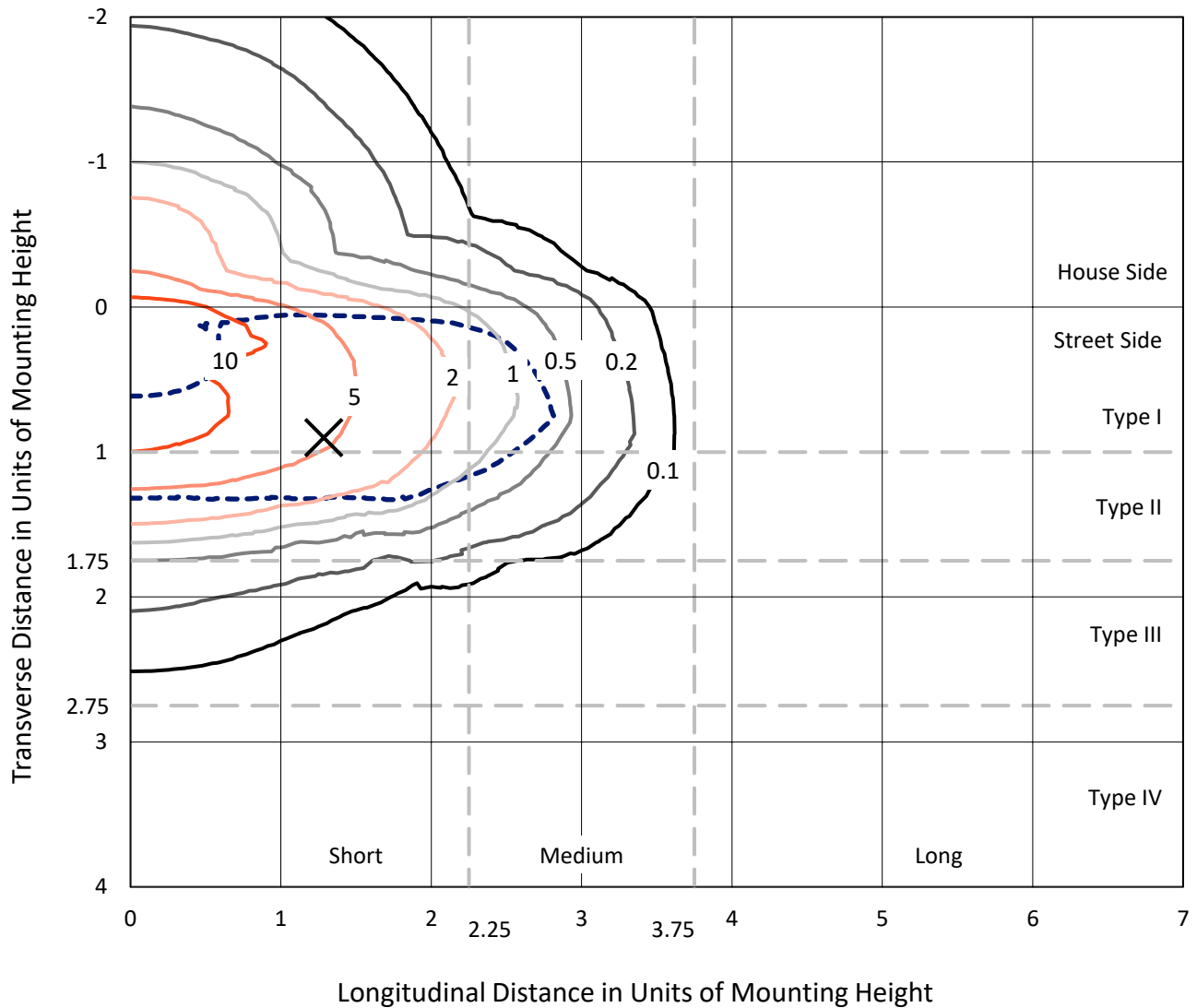
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955522
 CATALOG NUMBER: GALN-SB8B-950-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

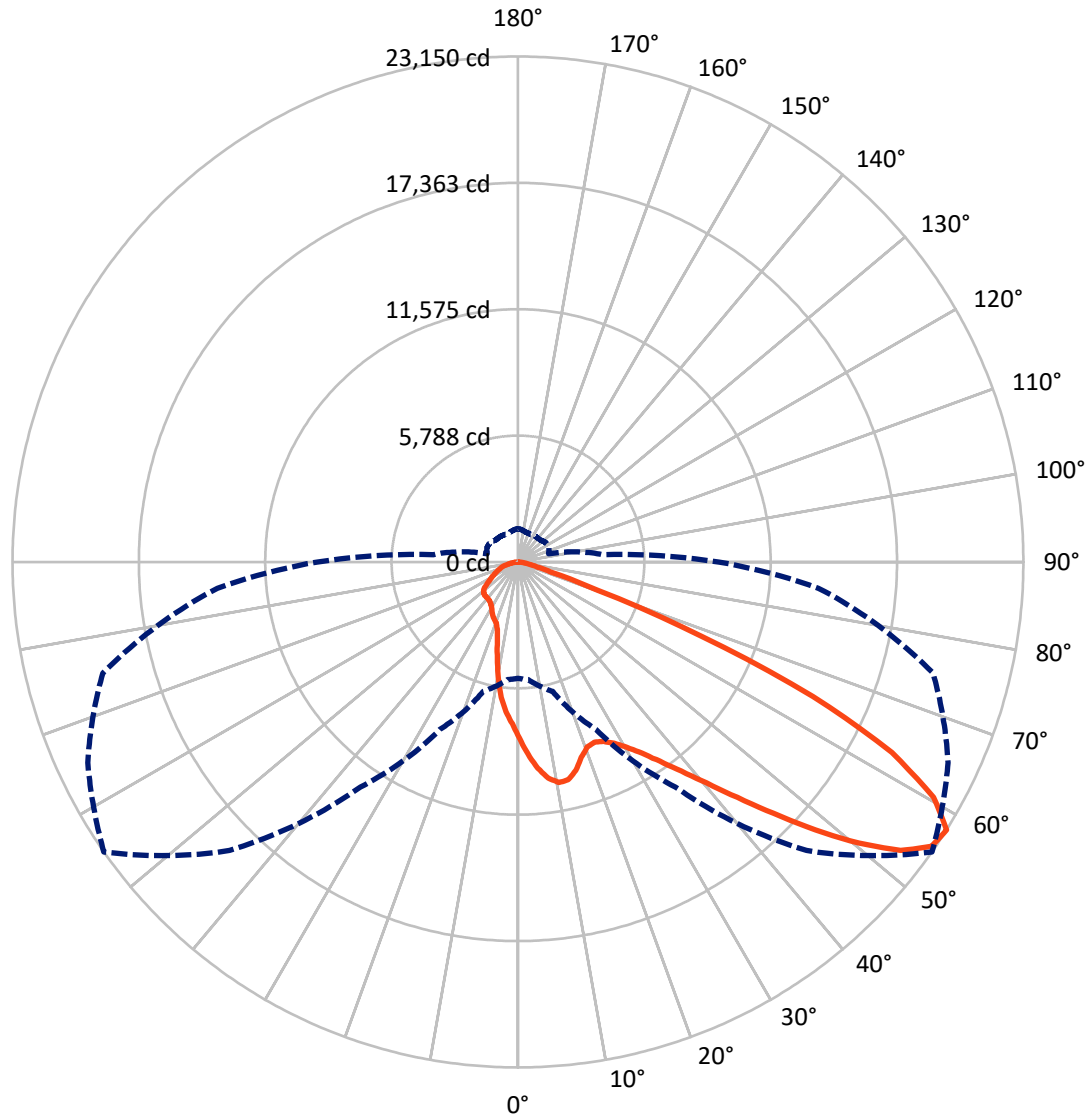
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

REPORT NUMBER: P955522
CATALOG NUMBER: GALN-SB8B-950-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P955522

CATALOG NUMBER: GALN-SB8B-950-U-AFL

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5829.1 | 0.0 | 5829.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 26385.9 | 0.0 | 26385.9 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 32215.0 | 0.0 | 32215.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 749.0 | 2.3 |
| 10°-20° | 1890.6 | 5.9 |
| 20°-30° | 3016.9 | 9.4 |
| 30°-40° | 4776.4 | 14.8 |
| 40°-50° | 7310.8 | 22.7 |
| 50°-60° | 7830.6 | 24.3 |
| 60°-70° | 4926.3 | 15.3 |
| 70°-80° | 1456.8 | 4.5 |
| 80°-90° | 257.6 | 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° | 32215.0 | 100.0 |
| 0°-180° | 32215.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P955522

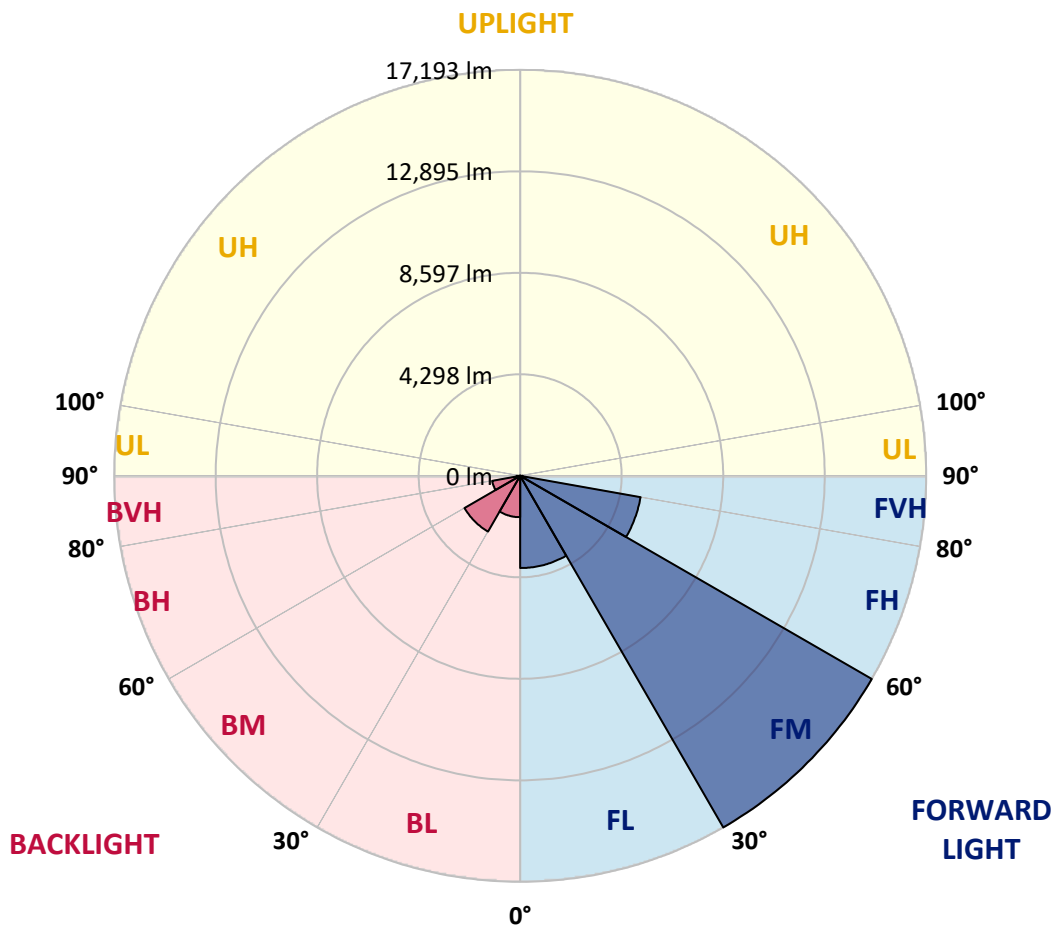
CATALOG NUMBER: GALN-SB8B-950-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3904.5 | 12.1 | | | |
| FM (30°-60°) | 17193.4 | 53.4 | | | |
| FH (60°-80°) | 5179.2 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 108.8 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1752.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2724.5 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1203.9 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 148.7 | 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: P955522
 CATALOG NUMBER: GALN-SB8B-950-U-AFL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 |
| 2.5° | 9261.1 | 9254.4 | 9291.1 | 9166.2 | 9081.2 | 8966.3 | 8814.8 | 8621.6 | 8413.4 | 8193.6 |
| 5° | 10095.5 | 10037.2 | 10075.5 | 9982.2 | 9888.9 | 9715.8 | 9490.9 | 9176.2 | 8791.5 | 8353.5 |
| 7.5° | 9963.9 | 9923.9 | 10022.2 | 10105.4 | 10175.4 | 10153.7 | 9988.9 | 9659.1 | 9162.8 | 8526.7 |
| 10° | 8903.1 | 8858.1 | 8996.3 | 9284.4 | 9707.4 | 10075.5 | 10275.3 | 10070.5 | 9542.6 | 8716.5 |
| 12.5° | 7967.1 | 7945.5 | 8037.1 | 8270.2 | 8739.8 | 9446.0 | 10238.7 | 10430.2 | 9937.2 | 8941.4 |
| 15° | 7567.4 | 7540.8 | 7599.1 | 7717.3 | 8017.1 | 8674.9 | 9905.6 | 10676.7 | 10325.3 | 9201.2 |
| 17.5° | 7479.2 | 7449.2 | 7474.2 | 7535.8 | 7729.0 | 8230.2 | 9402.7 | 10798.2 | 10730.0 | 9490.9 |
| 20° | 7642.4 | 7617.4 | 7620.7 | 7617.4 | 7752.3 | 8150.3 | 9052.9 | 10751.6 | 11083.0 | 9757.4 |
| 22.5° | 8037.1 | 7995.4 | 7997.1 | 7908.8 | 7982.1 | 8290.2 | 8961.3 | 10626.7 | 11397.8 | 9990.5 |
| 25° | 8679.9 | 8605.0 | 8619.9 | 8395.1 | 8375.1 | 8603.3 | 9104.6 | 10530.1 | 11710.9 | 10177.1 |
| 27.5° | 9559.2 | 9474.3 | 9429.3 | 9094.6 | 8934.7 | 9047.9 | 9396.0 | 10563.4 | 12007.3 | 10338.6 |
| 30° | 10658.3 | 10555.1 | 10463.5 | 9988.9 | 9699.1 | 9657.5 | 9849.0 | 10783.3 | 12357.0 | 10508.5 |
| 32.5° | 12005.6 | 11885.7 | 11719.2 | 11089.7 | 10681.7 | 10463.5 | 10435.2 | 11174.6 | 12766.7 | 10725.0 |
| 35° | 13609.4 | 13452.8 | 13216.4 | 12402.0 | 11885.7 | 11439.4 | 11207.9 | 11739.2 | 13327.9 | 11051.4 |
| 37.5° | 15261.4 | 15084.9 | 14868.4 | 13899.2 | 13264.6 | 12606.8 | 12150.5 | 12505.2 | 14075.7 | 11494.4 |
| 40° | 16785.2 | 16587.1 | 16385.5 | 15522.9 | 14841.7 | 14049.0 | 13304.6 | 13474.5 | 14990.0 | 12023.9 |
| 42.5° | 17684.5 | 17538.0 | 17461.4 | 16995.1 | 16468.8 | 15664.4 | 14740.2 | 14623.6 | 16017.5 | 12633.5 |
| 45° | 17644.6 | 17584.6 | 17821.1 | 18014.3 | 17889.4 | 17443.1 | 16422.2 | 15894.3 | 17048.4 | 13161.4 |
| 47.5° | 16702.0 | 16741.9 | 17269.9 | 18355.7 | 18833.6 | 19066.8 | 18337.4 | 17141.6 | 17944.3 | 13556.1 |
| 50° | 14137.3 | 14170.6 | 15393.0 | 17734.5 | 19076.8 | 20390.8 | 20237.5 | 18359.0 | 18638.8 | 13797.6 |
| 52.5° | 12107.2 | 12128.9 | 12653.5 | 15892.6 | 18274.1 | 21056.9 | 21949.5 | 19506.4 | 19146.7 | 13864.2 |
| 55° | 9119.5 | 9194.5 | 9782.4 | 12468.6 | 16185.7 | 20529.0 | 22992.1 | 20688.9 | 19468.1 | 13870.8 |
| 57.5° | 5327.5 | 5409.1 | 6135.2 | 8463.4 | 12580.2 | 18688.7 | 23150.3 | 21738.0 | 19686.3 | 13817.5 |
| 60° | 2609.6 | 2644.6 | 2961.0 | 4448.2 | 7757.3 | 15143.2 | 21877.9 | 22246.0 | 19807.9 | 13789.2 |
| 62.5° | 1758.6 | 1753.6 | 1767.0 | 2195.0 | 3822.0 | 9729.1 | 19226.7 | 21356.7 | 19742.9 | 13681.0 |
| 65° | 1512.2 | 1493.8 | 1443.9 | 1540.5 | 1980.1 | 4449.9 | 14855.1 | 18702.1 | 19248.3 | 13409.5 |
| 67.5° | 1307.3 | 1309.0 | 1310.6 | 1280.7 | 1413.9 | 2053.4 | 9077.9 | 14731.8 | 17473.0 | 12123.9 |
| 70° | 1082.5 | 1097.5 | 1104.1 | 1104.1 | 1152.4 | 1347.3 | 3875.3 | 10097.1 | 13782.6 | 9505.9 |
| 72.5° | 985.9 | 954.3 | 957.6 | 940.9 | 940.9 | 1025.9 | 1560.4 | 5723.9 | 8683.2 | 5347.5 |
| 75° | 804.4 | 824.4 | 827.7 | 816.0 | 777.7 | 782.7 | 925.9 | 2401.5 | 3715.4 | 2218.3 |
| 77.5° | 694.5 | 694.5 | 701.1 | 692.8 | 662.8 | 586.2 | 617.9 | 930.9 | 1264.0 | 909.3 |
| 80° | 557.9 | 556.2 | 584.5 | 601.2 | 554.6 | 433.0 | 394.7 | 514.6 | 561.2 | 399.7 |
| 82.5° | 271.5 | 288.1 | 401.4 | 458.0 | 421.3 | 313.1 | 241.5 | 319.8 | 299.8 | 176.5 |
| 85° | 158.2 | 149.9 | 179.9 | 254.8 | 241.5 | 173.2 | 116.6 | 166.5 | 156.5 | 89.9 |
| 87.5° | 50.0 | 46.6 | 36.6 | 86.6 | 69.9 | 48.3 | 31.6 | 48.3 | 43.3 | 20.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P955522
 CATALOG NUMBER: GALN-SB8B-950-U-AFL

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8072.0 | 0° | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 | 8072.0 |
| 8098.7 | 2.5° | 7980.4 | 7783.9 | 7589.1 | 7410.9 | 7302.6 | 7232.7 | 7162.7 | 7084.5 | 7054.5 | 7009.5 |
| 8120.3 | 5° | 7900.5 | 7520.8 | 7182.7 | 6891.3 | 6626.5 | 6418.3 | 6208.5 | 6038.6 | 5962.0 | 6013.6 |
| 8188.6 | 7.5° | 7853.9 | 7304.3 | 6783.0 | 6248.5 | 5733.9 | 5322.5 | 4964.5 | 4713.0 | 4599.7 | 4628.1 |
| 8255.2 | 10° | 7812.2 | 7059.5 | 6265.1 | 5420.8 | 4681.3 | 4171.7 | 3805.4 | 3613.8 | 3542.2 | 3557.2 |
| 8345.2 | 12.5° | 7773.9 | 6784.7 | 5640.6 | 4529.8 | 3743.7 | 3407.3 | 3302.4 | 3304.1 | 3317.4 | 3327.4 |
| 8488.4 | 15° | 7767.3 | 6453.3 | 4942.8 | 3750.4 | 3237.5 | 3215.8 | 3329.1 | 3400.7 | 3439.0 | 3450.6 |
| 8608.3 | 17.5° | 7757.3 | 6056.9 | 4231.7 | 3219.2 | 3114.2 | 3260.8 | 3365.7 | 3412.3 | 3442.3 | 3444.0 |
| 8724.9 | 20° | 7717.3 | 5554.0 | 3575.5 | 2966.0 | 3087.6 | 3214.2 | 3279.1 | 3315.7 | 3340.7 | 3349.1 |
| 8813.1 | 22.5° | 7594.1 | 4994.4 | 3064.3 | 2852.8 | 2981.0 | 3082.6 | 3159.2 | 3200.8 | 3215.8 | 3225.8 |
| 8829.8 | 25° | 7372.6 | 4368.3 | 2711.2 | 2744.5 | 2832.8 | 2961.0 | 3022.6 | 3031.0 | 3026.0 | 3041.0 |
| 8788.1 | 27.5° | 7082.8 | 3697.1 | 2491.4 | 2598.0 | 2711.2 | 2821.1 | 2854.4 | 2849.4 | 2839.5 | 2856.1 |
| 8716.5 | 30° | 6733.1 | 3094.3 | 2351.5 | 2433.1 | 2588.0 | 2687.9 | 2717.9 | 2706.2 | 2686.2 | 2704.6 |
| 8679.9 | 32.5° | 6363.4 | 2601.3 | 2236.6 | 2318.2 | 2486.4 | 2584.6 | 2614.6 | 2603.0 | 2588.0 | 2603.0 |
| 8721.5 | 35° | 6018.6 | 2256.6 | 2130.0 | 2241.6 | 2406.5 | 2503.0 | 2541.3 | 2543.0 | 2543.0 | 2561.3 |
| 8831.4 | 37.5° | 5702.2 | 2055.1 | 2041.7 | 2193.3 | 2351.5 | 2438.1 | 2493.1 | 2496.4 | 2424.8 | 2429.8 |
| 9018.0 | 40° | 5409.1 | 1970.1 | 2001.8 | 2161.6 | 2298.2 | 2381.5 | 2384.8 | 2198.3 | 2066.7 | 2063.4 |
| 9231.1 | 42.5° | 5169.3 | 1953.5 | 2013.4 | 2158.3 | 2259.9 | 2263.2 | 2028.4 | 1883.5 | 1846.9 | 1848.6 |
| 9427.6 | 45° | 4944.5 | 1948.5 | 2040.1 | 2158.3 | 2203.3 | 1955.1 | 1796.9 | 1758.6 | 1762.0 | 1775.3 |
| 9515.9 | 47.5° | 4693.0 | 1928.5 | 2045.1 | 2128.3 | 2040.1 | 1738.6 | 1692.0 | 1675.4 | 1668.7 | 1672.0 |
| 9495.9 | 50° | 4418.2 | 1856.9 | 1981.8 | 2068.4 | 1760.3 | 1645.4 | 1587.1 | 1582.1 | 1590.4 | 1595.4 |
| 9384.3 | 52.5° | 4128.4 | 1740.3 | 1873.5 | 1960.1 | 1632.1 | 1563.8 | 1498.8 | 1510.5 | 1547.1 | 1558.8 |
| 9267.8 | 55° | 3938.6 | 1603.7 | 1730.3 | 1743.6 | 1542.1 | 1487.2 | 1432.2 | 1458.9 | 1527.1 | 1548.8 |
| 9197.8 | 57.5° | 3888.6 | 1458.9 | 1567.1 | 1552.1 | 1427.2 | 1420.6 | 1387.3 | 1410.6 | 1497.2 | 1528.8 |
| 9194.5 | 60° | 3873.6 | 1329.0 | 1407.2 | 1395.6 | 1315.6 | 1347.3 | 1339.0 | 1350.6 | 1380.6 | 1390.6 |
| 9161.2 | 62.5° | 3757.1 | 1225.7 | 1264.0 | 1247.4 | 1215.7 | 1270.7 | 1290.7 | 1265.7 | 1289.0 | 1300.7 |
| 8933.0 | 65° | 3460.6 | 1142.4 | 1124.1 | 1112.5 | 1125.8 | 1175.7 | 1215.7 | 1165.8 | 1187.4 | 1220.7 |
| 8053.7 | 67.5° | 2971.0 | 1029.2 | 979.2 | 992.6 | 1034.2 | 1060.8 | 1112.5 | 1055.8 | 1074.2 | 1130.8 |
| 6486.6 | 70° | 2403.1 | 886.0 | 841.0 | 879.3 | 919.3 | 974.2 | 982.6 | 944.3 | 987.6 | 1050.8 |
| 3958.6 | 72.5° | 1700.3 | 741.1 | 709.4 | 787.7 | 801.0 | 872.7 | 854.3 | 836.0 | 896.0 | 917.6 |
| 1956.8 | 75° | 1179.1 | 597.9 | 579.5 | 639.5 | 687.8 | 749.4 | 736.1 | 757.7 | 884.3 | 894.3 |
| 977.6 | 77.5° | 746.1 | 464.6 | 453.0 | 491.3 | 557.9 | 626.2 | 647.8 | 894.3 | 1510.5 | 1570.4 |
| 507.9 | 80° | 433.0 | 346.4 | 333.1 | 363.0 | 421.3 | 484.6 | 624.5 | 1097.5 | 995.9 | 984.2 |
| 228.2 | 82.5° | 241.5 | 238.1 | 221.5 | 229.8 | 281.4 | 349.7 | 882.6 | 772.7 | 627.8 | 647.8 |
| 91.6 | 85° | 113.2 | 139.9 | 119.9 | 114.9 | 158.2 | 409.7 | 589.5 | 441.3 | 293.1 | 286.4 |
| 20.0 | 87.5° | 30.0 | 26.6 | 26.6 | 30.0 | 66.6 | 353.1 | 234.8 | 188.2 | 111.6 | 108.2 |
| 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

