

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: P945336

Luminaire Tested: **GALN-SB1B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

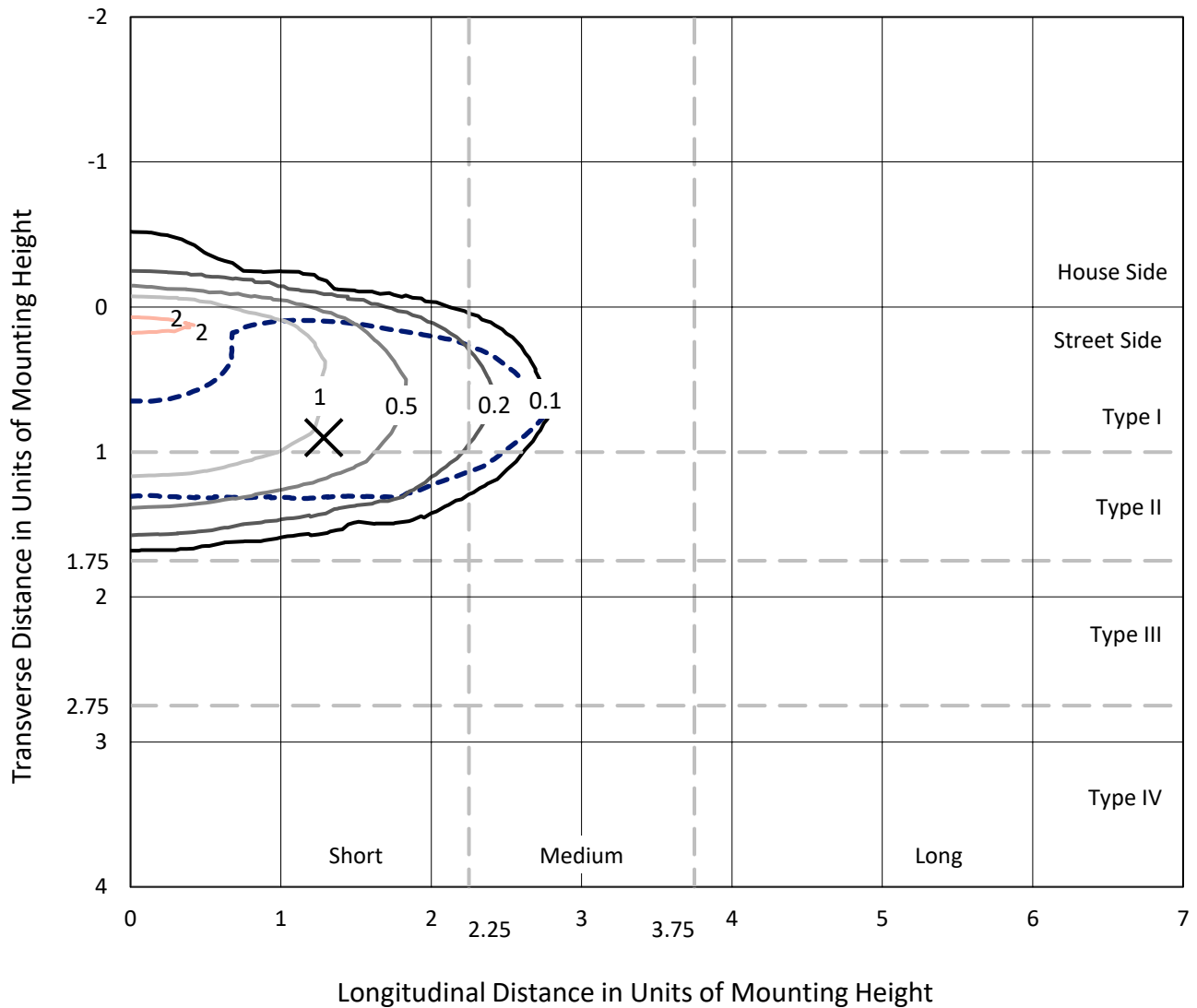
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

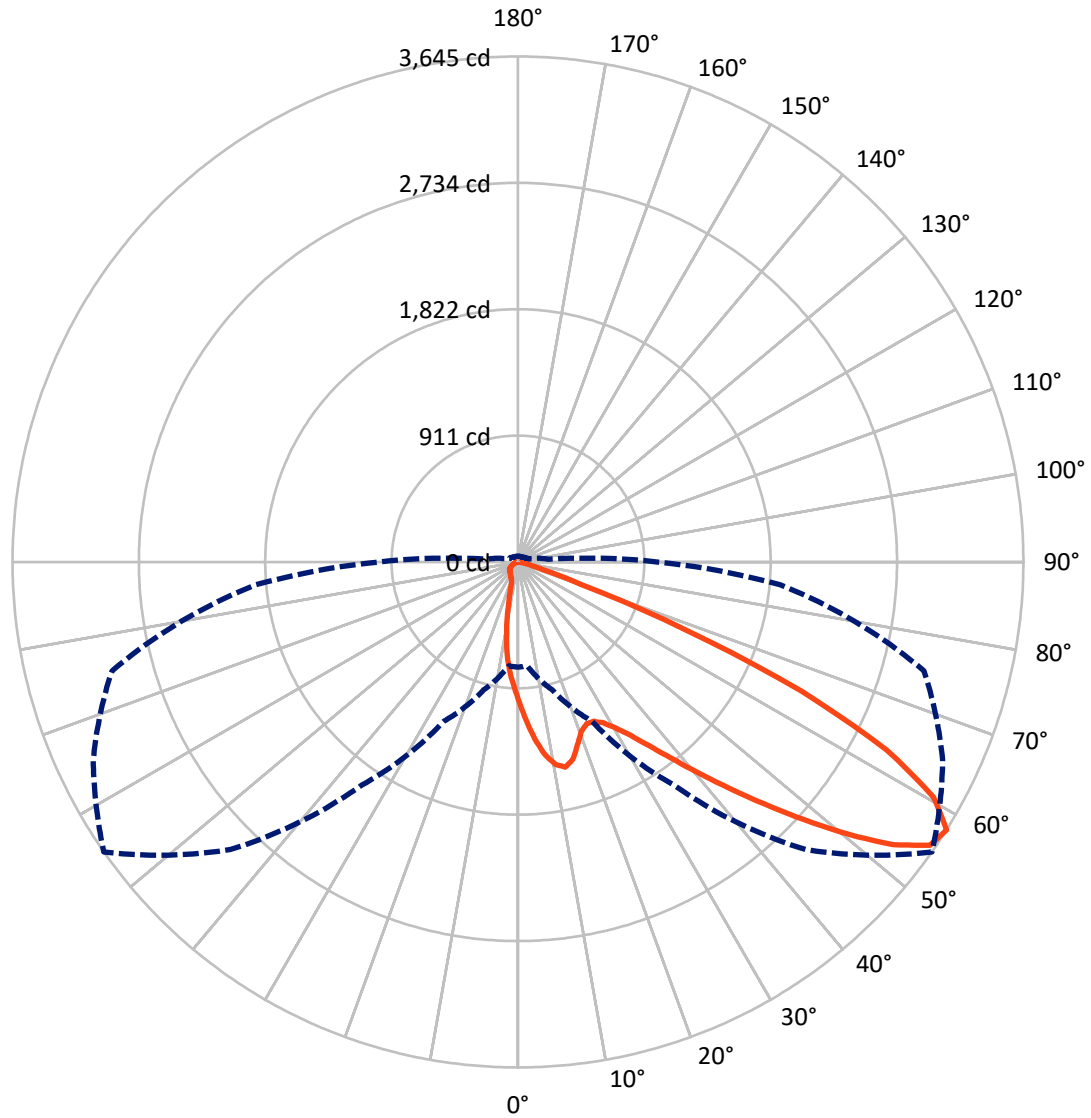
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 326.1 | 0.0 | 326.1 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 3849.9 | 0.0 | 3849.9 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 4176.0 | 0.0 | 4176.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.6 | 2.2 |
| 10°-20° | 226.2 | 5.4 |
| 20°-30° | 361.9 | 8.7 |
| 30°-40° | 612.5 | 14.7 |
| 40°-50° | 1005.6 | 24.1 |
| 50°-60° | 1105.2 | 26.5 |
| 60°-70° | 633.9 | 15.2 |
| 70°-80° | 129.5 | 3.1 |
| 80°-90° | 7.6 | 0.2 |
| 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° | 4176.0 | 100.0 |
| 0°-180° | 4176.0 | 100.0 |

Coefficient of Utilization



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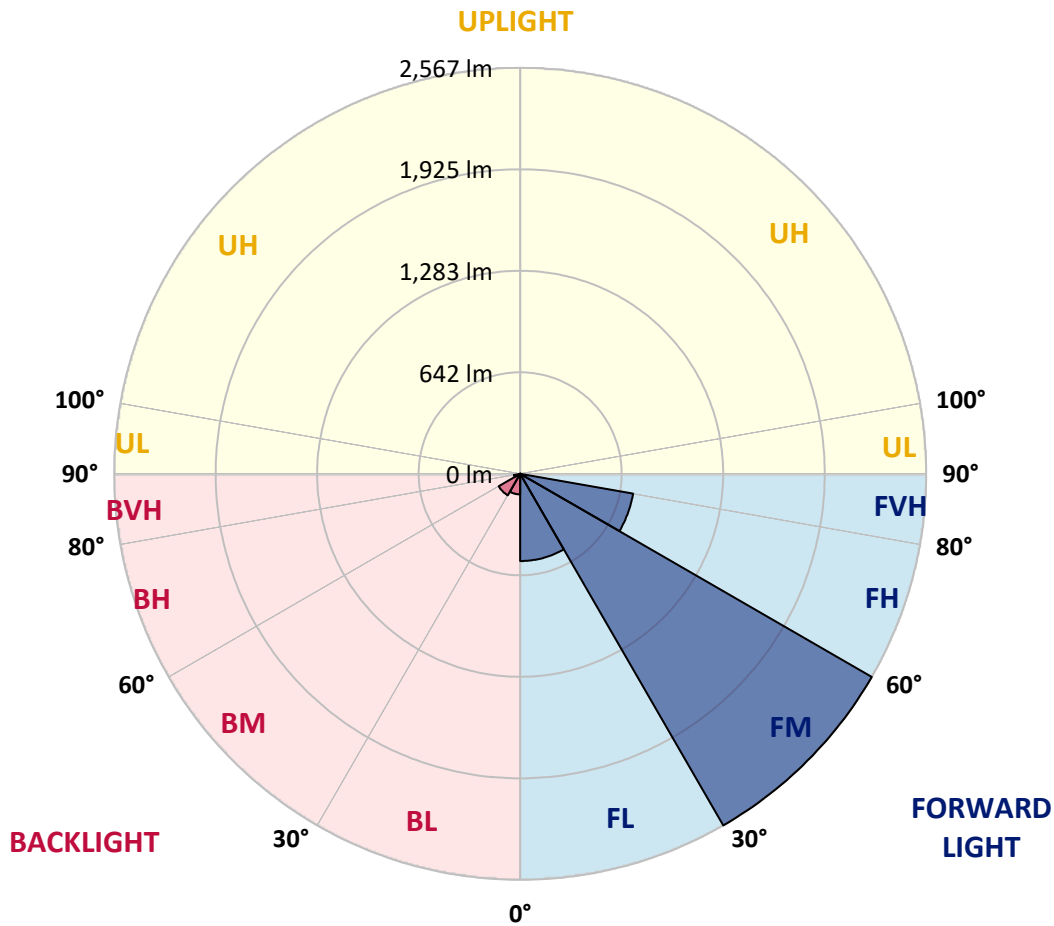
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 551.5 | 13.2 | | | |
| FM (30°-60°) | 2566.6 | 61.5 | | | |
| FH (60°-80°) | 724.7 | 17.4 | | | G1/1800 |
| FVH (80°-90°) | 7.1 | 0.2 | | | G0/10 |
| BL (0°-30°) | 130.2 | 3.1 | B1/500 | | |
| BM (30°-60°) | 156.6 | 3.8 | B0/220 | | |
| BH (60°-80°) | 38.8 | 0.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 |
| 2.5° | 1248.6 | 1232.9 | 1230.6 | 1227.5 | 1197.6 | 1175.2 | 1142.8 | 1107.3 | 1067.3 | 1026.7 |
| 5° | 1442.5 | 1430.2 | 1427.8 | 1413.4 | 1379.4 | 1341.3 | 1283.6 | 1210.8 | 1136.4 | 1048.8 |
| 7.5° | 1480.1 | 1477.8 | 1488.4 | 1487.8 | 1483.2 | 1453.1 | 1404.4 | 1317.6 | 1205.9 | 1076.1 |
| 10° | 1312.5 | 1318.4 | 1349.8 | 1377.4 | 1451.8 | 1495.0 | 1484.5 | 1412.9 | 1277.5 | 1107.3 |
| 12.5° | 1159.8 | 1152.8 | 1175.2 | 1206.4 | 1292.9 | 1421.7 | 1517.7 | 1492.5 | 1359.3 | 1142.5 |
| 15° | 1064.0 | 1061.2 | 1073.8 | 1088.2 | 1154.1 | 1283.9 | 1479.1 | 1557.1 | 1438.1 | 1184.2 |
| 17.5° | 1033.4 | 1031.0 | 1034.9 | 1038.5 | 1081.2 | 1181.7 | 1387.2 | 1596.8 | 1513.6 | 1231.9 |
| 20° | 1058.3 | 1055.2 | 1054.7 | 1051.9 | 1069.7 | 1138.2 | 1304.0 | 1599.6 | 1581.3 | 1275.1 |
| 22.5° | 1131.2 | 1127.6 | 1115.0 | 1103.6 | 1105.2 | 1144.1 | 1266.9 | 1571.3 | 1632.3 | 1315.6 |
| 25° | 1263.3 | 1257.4 | 1231.1 | 1193.0 | 1168.8 | 1185.3 | 1272.6 | 1533.9 | 1681.0 | 1347.2 |
| 27.5° | 1428.6 | 1420.9 | 1387.2 | 1330.5 | 1275.1 | 1255.1 | 1313.5 | 1508.2 | 1721.4 | 1371.4 |
| 30° | 1590.6 | 1580.5 | 1547.3 | 1503.3 | 1422.4 | 1359.1 | 1387.4 | 1519.5 | 1769.5 | 1396.7 |
| 32.5° | 1765.4 | 1755.9 | 1711.9 | 1657.3 | 1590.3 | 1505.1 | 1488.6 | 1574.9 | 1828.5 | 1432.0 |
| 35° | 1986.6 | 1971.7 | 1909.1 | 1834.7 | 1763.6 | 1677.4 | 1625.6 | 1670.4 | 1907.1 | 1485.8 |
| 37.5° | 2238.5 | 2218.4 | 2150.9 | 2048.2 | 1955.5 | 1858.9 | 1792.5 | 1801.7 | 2022.2 | 1557.9 |
| 40° | 2475.9 | 2457.6 | 2395.3 | 2298.5 | 2182.1 | 2064.9 | 1994.1 | 1973.5 | 2181.0 | 1645.7 |
| 42.5° | 2618.3 | 2601.8 | 2575.5 | 2534.6 | 2436.5 | 2317.0 | 2227.6 | 2183.1 | 2369.0 | 1750.7 |
| 45° | 2626.3 | 2611.8 | 2647.1 | 2694.7 | 2675.4 | 2595.9 | 2486.9 | 2405.3 | 2557.8 | 1849.4 |
| 47.5° | 2498.5 | 2488.7 | 2595.9 | 2762.2 | 2845.1 | 2878.6 | 2778.2 | 2609.0 | 2713.5 | 1920.2 |
| 50° | 2150.4 | 2146.8 | 2367.2 | 2672.6 | 2909.8 | 3126.3 | 3085.4 | 2798.5 | 2834.3 | 1956.7 |
| 52.5° | 1864.6 | 1851.4 | 1979.9 | 2385.7 | 2815.8 | 3256.6 | 3385.6 | 2984.4 | 2918.8 | 1963.7 |
| 55° | 1414.2 | 1402.6 | 1563.8 | 1905.8 | 2512.7 | 3210.3 | 3605.3 | 3176.3 | 2979.3 | 1945.9 |
| 57.5° | 758.6 | 751.4 | 955.1 | 1268.4 | 1964.2 | 2932.2 | 3644.9 | 3379.2 | 3030.3 | 1898.8 |
| 60° | 295.4 | 294.1 | 370.3 | 615.4 | 1193.8 | 2385.5 | 3444.8 | 3501.0 | 3062.2 | 1840.9 |
| 62.5° | 178.7 | 182.6 | 194.9 | 276.3 | 527.4 | 1481.9 | 2983.7 | 3362.4 | 3083.6 | 1787.8 |
| 65° | 147.8 | 148.1 | 149.6 | 189.8 | 252.6 | 620.1 | 2246.2 | 2906.7 | 3030.8 | 1693.3 |
| 67.5° | 126.7 | 129.0 | 134.9 | 150.6 | 178.2 | 271.9 | 1293.2 | 2251.6 | 2709.7 | 1473.4 |
| 70° | 99.9 | 103.0 | 110.5 | 123.9 | 137.5 | 170.2 | 477.9 | 1498.1 | 2070.0 | 1110.6 |
| 72.5° | 84.2 | 83.9 | 87.8 | 100.7 | 109.2 | 119.7 | 183.9 | 839.5 | 1203.0 | 530.2 |
| 75° | 65.1 | 67.7 | 72.6 | 84.2 | 89.4 | 86.8 | 99.7 | 306.7 | 431.1 | 160.7 |
| 77.5° | 51.0 | 53.0 | 57.4 | 68.8 | 73.9 | 61.5 | 57.4 | 109.7 | 138.5 | 57.7 |
| 80° | 22.9 | 24.7 | 39.1 | 50.7 | 60.3 | 42.5 | 31.2 | 56.1 | 61.5 | 26.3 |
| 82.5° | 4.1 | 7.0 | 22.9 | 26.8 | 30.9 | 27.6 | 16.2 | 29.1 | 30.1 | 10.6 |
| 85° | 0.3 | 0.5 | 8.0 | 9.8 | 12.4 | 9.0 | 4.9 | 11.6 | 10.0 | 3.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 1.3 | 1.5 | 2.1 | 1.5 | 1.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1006.3 | 0° | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 | 1006.3 |
| 1008.6 | 2.5° | 990.1 | 953.5 | 918.0 | 888.9 | 871.9 | 843.1 | 824.0 | 820.9 | 812.9 | 819.9 |
| 1011.2 | 5° | 971.0 | 905.6 | 839.5 | 780.2 | 731.6 | 668.7 | 621.9 | 602.0 | 584.8 | 590.7 |
| 1017.9 | 7.5° | 962.0 | 858.8 | 755.8 | 654.6 | 550.5 | 450.1 | 375.4 | 344.3 | 320.6 | 323.9 |
| 1025.4 | 10° | 949.9 | 810.1 | 648.6 | 494.1 | 354.8 | 255.7 | 204.2 | 185.1 | 174.6 | 174.8 |
| 1036.4 | 12.5° | 940.7 | 751.9 | 524.3 | 335.0 | 216.0 | 163.3 | 147.3 | 142.7 | 139.6 | 139.8 |
| 1053.2 | 15° | 936.0 | 683.4 | 401.4 | 223.3 | 154.5 | 138.3 | 134.4 | 132.4 | 130.3 | 130.0 |
| 1071.7 | 17.5° | 928.3 | 607.2 | 293.8 | 163.0 | 135.2 | 129.5 | 126.2 | 123.9 | 121.3 | 120.8 |
| 1087.7 | 20° | 916.7 | 520.7 | 214.8 | 137.8 | 126.7 | 122.3 | 117.7 | 114.6 | 111.5 | 111.0 |
| 1097.7 | 22.5° | 895.3 | 429.3 | 165.1 | 127.5 | 120.5 | 115.6 | 110.0 | 106.3 | 103.3 | 102.7 |
| 1092.8 | 25° | 855.7 | 343.5 | 139.1 | 121.0 | 115.1 | 109.2 | 103.0 | 98.1 | 95.3 | 94.8 |
| 1082.3 | 27.5° | 805.5 | 269.9 | 126.2 | 115.1 | 108.2 | 102.7 | 95.8 | 91.2 | 88.6 | 88.1 |
| 1068.4 | 30° | 746.2 | 207.8 | 118.7 | 108.4 | 99.9 | 95.3 | 89.1 | 85.2 | 83.7 | 83.7 |
| 1058.6 | 32.5° | 682.4 | 166.1 | 115.6 | 101.7 | 92.7 | 87.6 | 82.7 | 81.1 | 80.6 | 80.3 |
| 1064.0 | 35° | 622.4 | 144.2 | 114.1 | 96.3 | 86.3 | 81.4 | 79.3 | 79.6 | 80.6 | 80.6 |
| 1080.7 | 37.5° | 569.1 | 137.2 | 113.3 | 92.4 | 80.6 | 76.2 | 77.5 | 79.8 | 78.8 | 78.8 |
| 1110.1 | 40° | 520.9 | 138.0 | 112.8 | 89.6 | 76.0 | 73.4 | 76.0 | 74.2 | 71.6 | 71.3 |
| 1145.9 | 42.5° | 484.1 | 144.5 | 111.8 | 87.3 | 73.1 | 71.3 | 70.3 | 67.5 | 67.2 | 67.7 |
| 1183.0 | 45° | 457.3 | 150.1 | 111.5 | 86.3 | 70.0 | 66.7 | 65.4 | 62.6 | 67.7 | 69.0 |
| 1198.2 | 47.5° | 425.6 | 150.1 | 111.5 | 82.7 | 64.9 | 63.6 | 61.5 | 58.5 | 63.6 | 64.9 |
| 1183.7 | 50° | 384.7 | 140.6 | 107.1 | 78.5 | 60.8 | 60.0 | 56.4 | 52.5 | 51.5 | 52.3 |
| 1150.0 | 52.5° | 332.9 | 123.3 | 96.0 | 72.9 | 56.7 | 55.1 | 50.7 | 47.9 | 47.1 | 47.1 |
| 1089.5 | 55° | 274.0 | 103.3 | 81.1 | 64.6 | 52.3 | 49.4 | 46.4 | 45.1 | 44.3 | 43.8 |
| 1004.8 | 57.5° | 222.7 | 84.7 | 65.1 | 57.4 | 48.2 | 44.5 | 43.5 | 42.0 | 40.7 | 39.9 |
| 934.0 | 60° | 182.8 | 66.7 | 53.8 | 51.0 | 44.0 | 40.7 | 40.4 | 38.4 | 35.0 | 34.5 |
| 875.5 | 62.5° | 141.1 | 48.9 | 45.3 | 44.3 | 39.9 | 37.1 | 36.6 | 32.4 | 27.3 | 26.3 |
| 792.6 | 65° | 99.7 | 38.1 | 36.6 | 38.9 | 35.5 | 33.0 | 31.7 | 25.5 | 20.1 | 19.3 |
| 663.3 | 67.5° | 70.0 | 31.9 | 28.8 | 34.0 | 30.9 | 27.6 | 26.8 | 21.6 | 16.7 | 16.2 |
| 501.6 | 70° | 50.0 | 26.0 | 23.7 | 29.1 | 24.7 | 24.2 | 22.7 | 18.0 | 13.6 | 13.1 |
| 248.2 | 72.5° | 35.3 | 19.8 | 18.3 | 25.2 | 17.0 | 20.9 | 18.5 | 13.9 | 10.3 | 9.8 |
| 84.5 | 75° | 26.0 | 14.2 | 12.9 | 14.7 | 12.4 | 15.7 | 13.1 | 9.3 | 6.4 | 6.2 |
| 38.1 | 77.5° | 19.1 | 9.0 | 7.7 | 7.2 | 7.2 | 9.8 | 7.2 | 3.9 | 2.8 | 2.6 |
| 19.3 | 80° | 13.4 | 4.1 | 3.6 | 3.1 | 2.8 | 2.3 | 1.0 | 0.5 | 0.3 | 0.3 |
| 6.7 | 82.5° | 8.0 | 1.8 | 1.8 | 1.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.6 | 85° | 1.8 | 0.8 | 0.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.0 | 87.5° | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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

