

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: P945021

Luminaire Tested: **GALN-SB1A-835-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945021
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-SB1A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

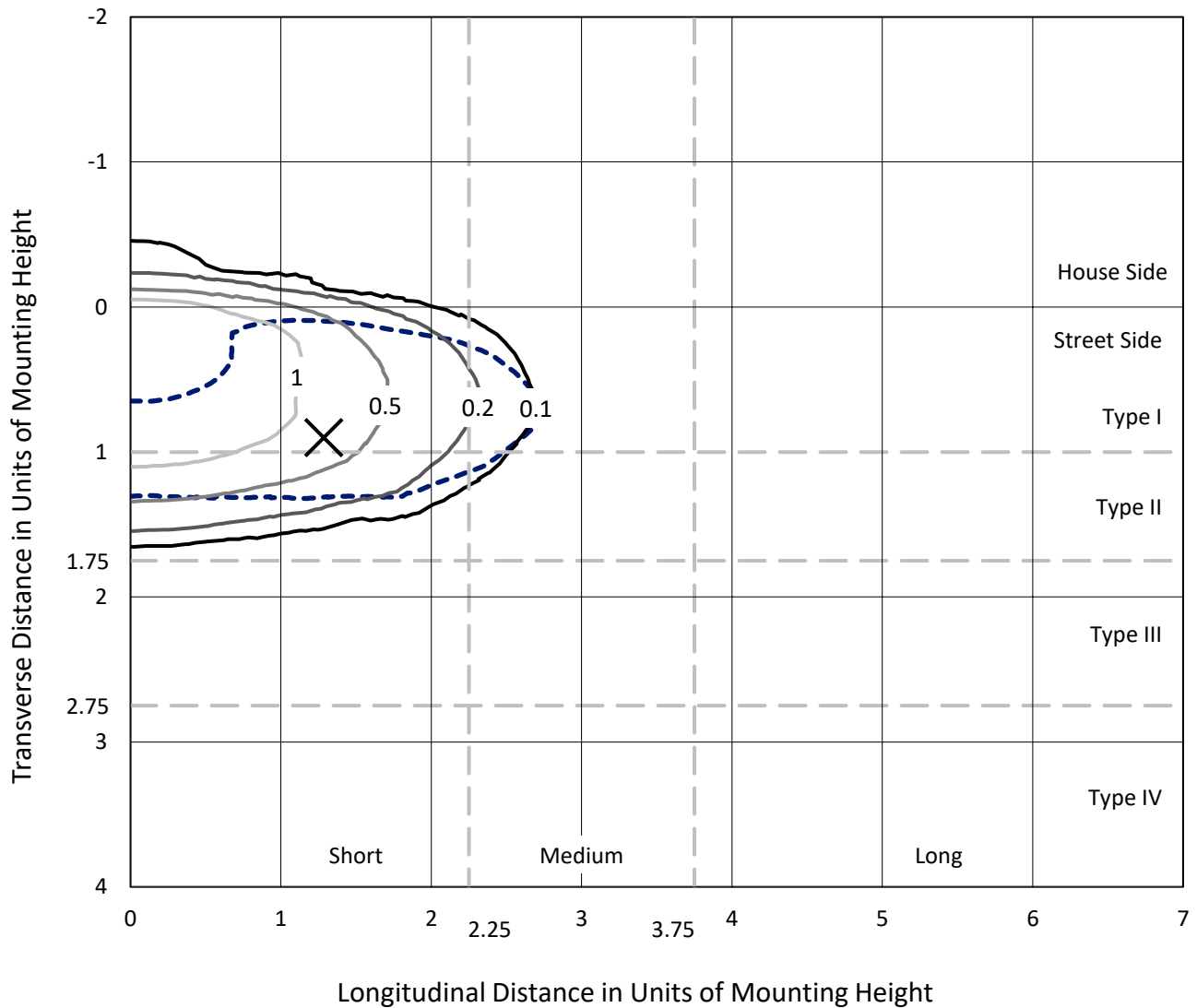
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

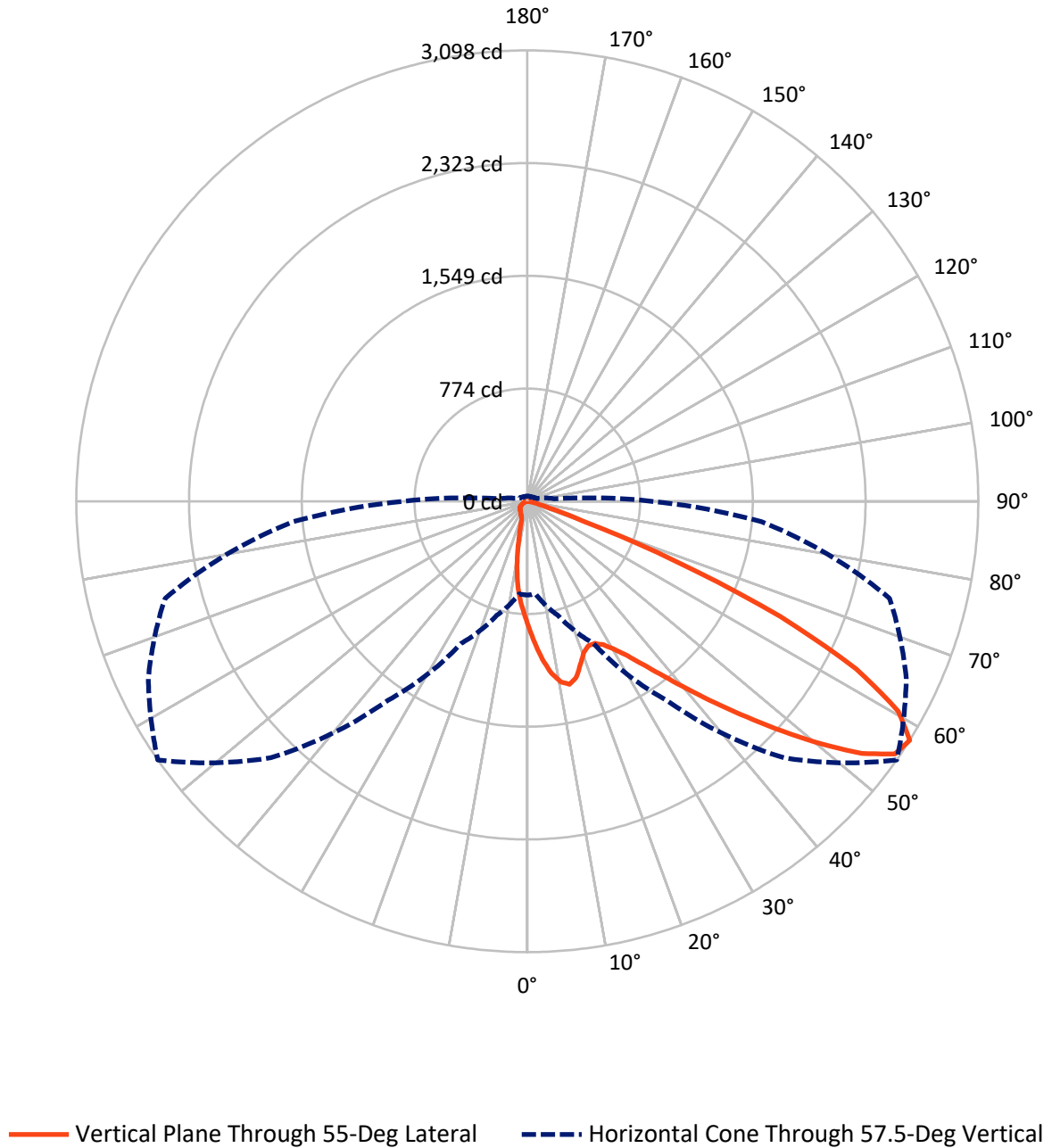
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 277.2 | 0.0 | 277.2 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 3271.8 | 0.0 | 3271.8 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 3549.0 | 0.0 | 3549.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.6 | 2.2 |
| 10°-20° | 192.2 | 5.4 |
| 20°-30° | 307.5 | 8.7 |
| 30°-40° | 520.5 | 14.7 |
| 40°-50° | 854.6 | 24.1 |
| 50°-60° | 939.2 | 26.5 |
| 60°-70° | 538.8 | 15.2 |
| 70°-80° | 110.1 | 3.1 |
| 80°-90° | 6.5 | 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° | 3549.0 | 100.0 |
| 0°-180° | 3549.0 | 100.0 |

Coefficient of Utilization

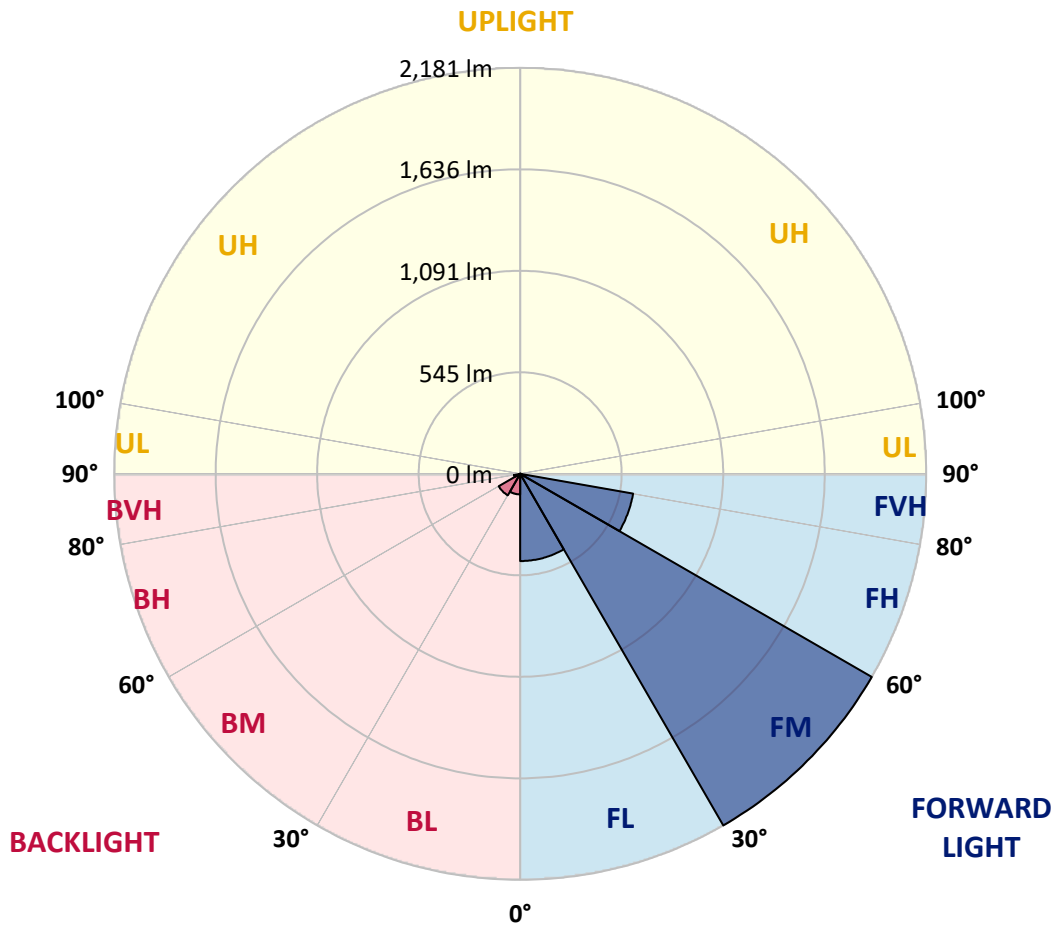


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 468.7 | 13.2 | | | |
| FM | (30°-60°) | 2181.2 | 61.5 | | | |
| FH | (60°-80°) | 615.9 | 17.4 | | | G0/660 |
| FVH | (80°-90°) | 6.1 | 0.2 | | | G0/10 |
| BL | (0°-30°) | 110.7 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 133.1 | 3.8 | B0/220 | | |
| BH | (60°-80°) | 33.0 | 0.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.4 | 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-G0
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 |
| 2.5° | 1061.1 | 1047.8 | 1045.8 | 1043.2 | 1017.8 | 998.8 | 971.2 | 941.0 | 907.1 | 872.5 |
| 5° | 1225.9 | 1215.4 | 1213.5 | 1201.2 | 1172.3 | 1139.9 | 1090.9 | 1029.0 | 965.7 | 891.3 |
| 7.5° | 1257.9 | 1255.9 | 1264.9 | 1264.4 | 1260.5 | 1234.9 | 1193.5 | 1119.8 | 1024.8 | 914.5 |
| 10° | 1115.4 | 1120.5 | 1147.2 | 1170.6 | 1233.8 | 1270.6 | 1261.6 | 1200.8 | 1085.7 | 941.0 |
| 12.5° | 985.6 | 979.7 | 998.8 | 1025.3 | 1098.8 | 1208.2 | 1289.8 | 1268.4 | 1155.2 | 971.0 |
| 15° | 904.2 | 901.8 | 912.6 | 924.8 | 980.8 | 1091.1 | 1257.0 | 1323.3 | 1222.2 | 1006.4 |
| 17.5° | 878.2 | 876.2 | 879.5 | 882.6 | 918.9 | 1004.3 | 1178.9 | 1357.0 | 1286.3 | 1046.9 |
| 20° | 899.4 | 896.8 | 896.4 | 894.0 | 909.1 | 967.3 | 1108.2 | 1359.4 | 1343.9 | 1083.7 |
| 22.5° | 961.4 | 958.3 | 947.6 | 937.9 | 939.3 | 972.3 | 1076.7 | 1335.4 | 1387.2 | 1118.0 |
| 25° | 1073.6 | 1068.6 | 1046.3 | 1013.9 | 993.3 | 1007.3 | 1081.5 | 1303.6 | 1428.6 | 1145.0 |
| 27.5° | 1214.1 | 1207.6 | 1178.9 | 1130.7 | 1083.7 | 1066.6 | 1116.3 | 1281.7 | 1462.9 | 1165.5 |
| 30° | 1351.8 | 1343.2 | 1315.0 | 1277.6 | 1208.9 | 1155.0 | 1179.1 | 1291.4 | 1503.9 | 1187.0 |
| 32.5° | 1500.4 | 1492.3 | 1454.8 | 1408.4 | 1351.5 | 1279.1 | 1265.1 | 1338.4 | 1554.0 | 1217.0 |
| 35° | 1688.3 | 1675.6 | 1622.5 | 1559.2 | 1498.8 | 1425.5 | 1381.5 | 1419.6 | 1620.7 | 1262.7 |
| 37.5° | 1902.4 | 1885.3 | 1828.0 | 1740.6 | 1661.9 | 1579.8 | 1523.3 | 1531.2 | 1718.5 | 1324.0 |
| 40° | 2104.1 | 2088.6 | 2035.6 | 1953.4 | 1854.4 | 1754.9 | 1694.7 | 1677.2 | 1853.6 | 1398.6 |
| 42.5° | 2225.2 | 2211.1 | 2188.8 | 2154.0 | 2070.7 | 1969.1 | 1893.2 | 1855.3 | 2013.3 | 1487.9 |
| 45° | 2231.9 | 2219.7 | 2249.7 | 2290.1 | 2273.7 | 2206.1 | 2113.5 | 2044.2 | 2173.7 | 1571.7 |
| 47.5° | 2123.4 | 2115.1 | 2206.1 | 2347.5 | 2417.9 | 2446.4 | 2361.1 | 2217.3 | 2306.1 | 1631.9 |
| 50° | 1827.5 | 1824.5 | 2011.8 | 2271.3 | 2472.9 | 2656.9 | 2622.1 | 2378.3 | 2408.8 | 1663.0 |
| 52.5° | 1584.6 | 1573.5 | 1682.7 | 2027.5 | 2393.0 | 2767.7 | 2877.3 | 2536.3 | 2480.5 | 1668.9 |
| 55° | 1201.9 | 1192.0 | 1329.0 | 1619.6 | 2135.4 | 2728.3 | 3064.0 | 2699.4 | 2532.0 | 1653.8 |
| 57.5° | 644.7 | 638.6 | 811.7 | 1078.0 | 1669.3 | 2491.9 | 3097.7 | 2871.8 | 2575.3 | 1613.7 |
| 60° | 251.0 | 249.9 | 314.7 | 523.0 | 1014.5 | 2027.3 | 2927.6 | 2975.3 | 2602.4 | 1564.5 |
| 62.5° | 151.9 | 155.2 | 165.7 | 234.8 | 448.2 | 1259.4 | 2535.7 | 2857.6 | 2620.6 | 1519.4 |
| 65° | 125.6 | 125.8 | 127.1 | 161.3 | 214.7 | 527.0 | 1908.9 | 2470.3 | 2575.7 | 1439.1 |
| 67.5° | 107.7 | 109.6 | 114.7 | 128.0 | 151.4 | 231.1 | 1099.0 | 1913.5 | 2302.8 | 1252.2 |
| 70° | 84.9 | 87.5 | 93.9 | 105.3 | 116.9 | 144.7 | 406.2 | 1273.2 | 1759.2 | 943.9 |
| 72.5° | 71.6 | 71.3 | 74.6 | 85.6 | 92.8 | 101.8 | 156.3 | 713.4 | 1022.4 | 450.6 |
| 75° | 55.4 | 57.6 | 61.7 | 71.6 | 75.9 | 73.7 | 84.7 | 260.6 | 366.3 | 136.6 |
| 77.5° | 43.3 | 45.1 | 48.8 | 58.4 | 62.8 | 52.3 | 48.8 | 93.2 | 117.7 | 49.0 |
| 80° | 19.5 | 21.0 | 33.3 | 43.1 | 51.2 | 36.1 | 26.5 | 47.7 | 52.3 | 22.3 |
| 82.5° | 3.5 | 5.9 | 19.5 | 22.8 | 26.3 | 23.4 | 13.8 | 24.7 | 25.6 | 9.0 |
| 85° | 0.2 | 0.4 | 6.8 | 8.3 | 10.5 | 7.7 | 4.2 | 9.8 | 8.5 | 3.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 1.1 | 1.3 | 1.8 | 1.3 | 1.1 |
| 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° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 855.2 | 0° | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 |
| 857.2 | 2.5° | 841.4 | 810.4 | 780.2 | 755.4 | 741.0 | 716.5 | 700.3 | 697.7 | 690.9 | 696.8 |
| 859.4 | 5° | 825.2 | 769.7 | 713.4 | 663.1 | 621.7 | 568.3 | 528.5 | 511.6 | 497.0 | 502.0 |
| 865.1 | 7.5° | 817.6 | 729.8 | 642.3 | 556.3 | 467.9 | 382.5 | 319.1 | 292.6 | 272.5 | 275.3 |
| 871.4 | 10° | 807.3 | 688.5 | 551.3 | 420.0 | 301.6 | 217.3 | 173.5 | 157.3 | 148.4 | 148.6 |
| 880.8 | 12.5° | 799.4 | 639.0 | 445.6 | 284.7 | 183.6 | 138.7 | 125.2 | 121.2 | 118.6 | 118.8 |
| 895.1 | 15° | 795.5 | 580.8 | 341.2 | 189.7 | 131.3 | 117.5 | 114.2 | 112.5 | 110.7 | 110.5 |
| 910.8 | 17.5° | 788.9 | 516.0 | 249.7 | 138.5 | 114.9 | 110.1 | 107.2 | 105.3 | 103.1 | 102.6 |
| 924.4 | 20° | 779.1 | 442.5 | 182.5 | 117.1 | 107.7 | 103.9 | 100.0 | 97.4 | 94.8 | 94.3 |
| 932.9 | 22.5° | 760.9 | 364.8 | 140.3 | 108.3 | 102.4 | 98.3 | 93.4 | 90.4 | 87.8 | 87.3 |
| 928.8 | 25° | 727.2 | 291.9 | 118.2 | 102.9 | 97.8 | 92.8 | 87.5 | 83.4 | 81.0 | 80.5 |
| 919.8 | 27.5° | 684.5 | 229.3 | 107.2 | 97.8 | 91.9 | 87.3 | 81.4 | 77.5 | 75.3 | 74.8 |
| 908.0 | 30° | 634.2 | 176.6 | 100.9 | 92.1 | 84.9 | 81.0 | 75.7 | 72.4 | 71.1 | 71.1 |
| 899.6 | 32.5° | 579.9 | 141.2 | 98.3 | 86.4 | 78.8 | 74.4 | 70.2 | 68.9 | 68.5 | 68.3 |
| 904.2 | 35° | 528.9 | 122.5 | 96.9 | 81.8 | 73.3 | 69.2 | 67.4 | 67.6 | 68.5 | 68.5 |
| 918.5 | 37.5° | 483.6 | 116.6 | 96.3 | 78.6 | 68.5 | 64.8 | 65.9 | 67.8 | 67.0 | 67.0 |
| 943.4 | 40° | 442.7 | 117.3 | 95.9 | 76.2 | 64.6 | 62.4 | 64.6 | 63.0 | 60.8 | 60.6 |
| 973.8 | 42.5° | 411.4 | 122.8 | 95.0 | 74.2 | 62.2 | 60.6 | 59.7 | 57.3 | 57.1 | 57.6 |
| 1005.3 | 45° | 388.7 | 127.6 | 94.8 | 73.3 | 59.5 | 56.7 | 55.6 | 53.2 | 57.6 | 58.6 |
| 1018.3 | 47.5° | 361.7 | 127.6 | 94.8 | 70.2 | 55.1 | 54.1 | 52.3 | 49.7 | 54.1 | 55.1 |
| 1006.0 | 50° | 326.9 | 119.5 | 91.0 | 66.7 | 51.6 | 51.0 | 47.9 | 44.6 | 43.8 | 44.4 |
| 977.3 | 52.5° | 283.0 | 104.8 | 81.6 | 61.9 | 48.1 | 46.8 | 43.1 | 40.7 | 40.0 | 40.0 |
| 925.9 | 55° | 232.8 | 87.8 | 68.9 | 54.9 | 44.4 | 42.0 | 39.4 | 38.3 | 37.6 | 37.2 |
| 853.9 | 57.5° | 189.3 | 72.0 | 55.4 | 48.8 | 40.9 | 37.9 | 37.0 | 35.7 | 34.6 | 33.9 |
| 793.7 | 60° | 155.4 | 56.7 | 45.7 | 43.3 | 37.4 | 34.6 | 34.4 | 32.6 | 29.8 | 29.3 |
| 744.1 | 62.5° | 119.9 | 41.6 | 38.5 | 37.6 | 33.9 | 31.5 | 31.1 | 27.6 | 23.2 | 22.3 |
| 673.6 | 65° | 84.7 | 32.4 | 31.1 | 33.0 | 30.2 | 28.0 | 26.9 | 21.7 | 17.1 | 16.4 |
| 563.7 | 67.5° | 59.5 | 27.1 | 24.5 | 28.9 | 26.3 | 23.4 | 22.8 | 18.4 | 14.2 | 13.8 |
| 426.3 | 70° | 42.5 | 22.1 | 20.1 | 24.7 | 21.0 | 20.6 | 19.3 | 15.3 | 11.6 | 11.2 |
| 211.0 | 72.5° | 30.0 | 16.9 | 15.5 | 21.4 | 14.4 | 17.7 | 15.8 | 11.8 | 8.8 | 8.3 |
| 71.8 | 75° | 22.1 | 12.0 | 10.9 | 12.5 | 10.5 | 13.3 | 11.2 | 7.9 | 5.5 | 5.3 |
| 32.4 | 77.5° | 16.2 | 7.7 | 6.6 | 6.1 | 6.1 | 8.3 | 6.1 | 3.3 | 2.4 | 2.2 |
| 16.4 | 80° | 11.4 | 3.5 | 3.1 | 2.6 | 2.4 | 2.0 | 0.9 | 0.4 | 0.2 | 0.2 |
| 5.7 | 82.5° | 6.8 | 1.5 | 1.5 | 1.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.2 | 85° | 1.5 | 0.7 | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.9 | 87.5° | 0.2 | 0.2 | 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

