

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: P948109

Luminaire Tested: **GALN-SB3B-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948109
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-SB3B-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17183 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

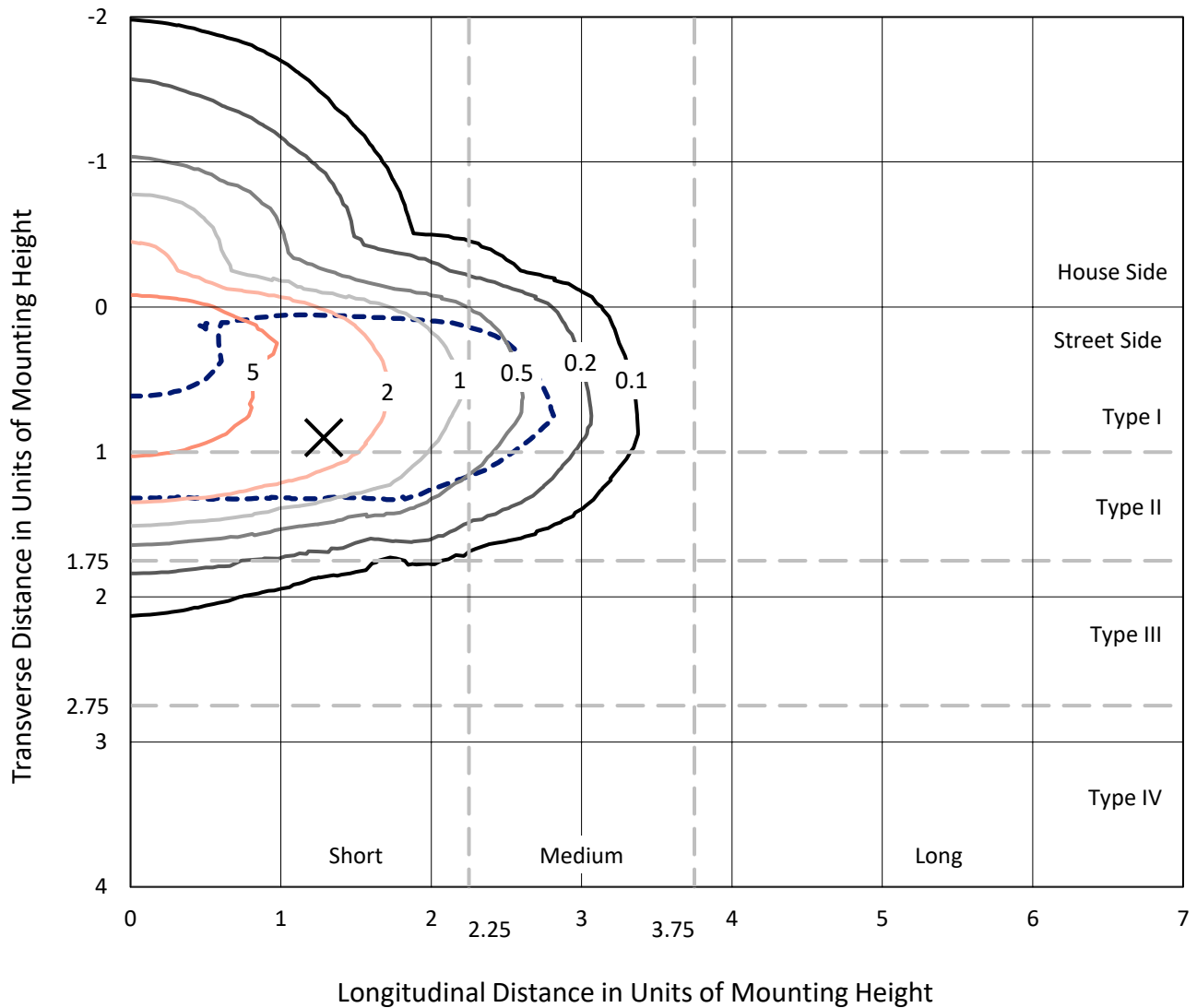
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

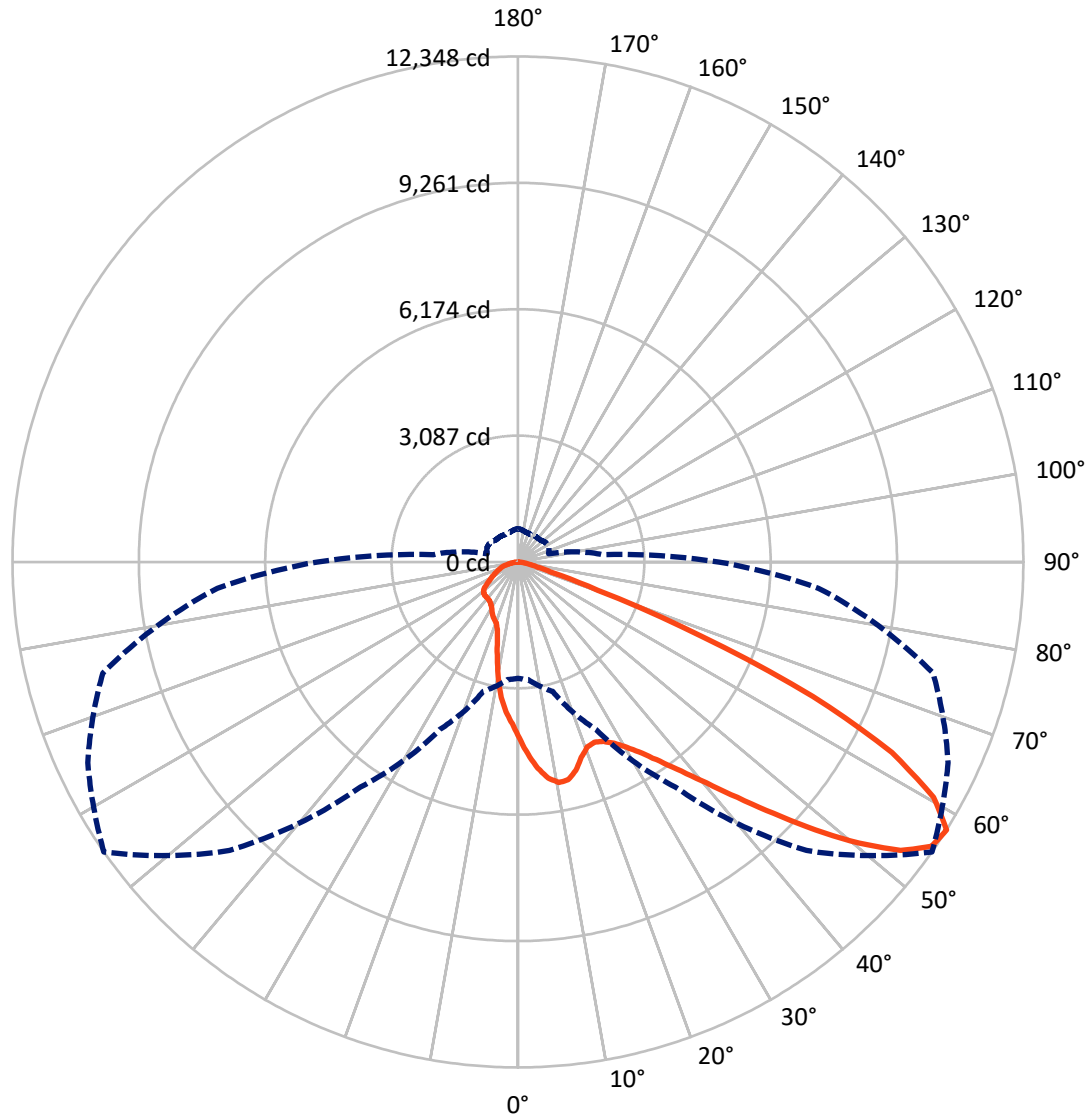
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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 | 3109.2 | 0.0 | 3109.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 14073.8 | 0.0 | 14073.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 17183.0 | 0.0 | 17183.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 399.5 | 2.3 |
| 10°-20° | 1008.4 | 5.9 |
| 20°-30° | 1609.2 | 9.4 |
| 30°-40° | 2547.7 | 14.8 |
| 40°-50° | 3899.5 | 22.7 |
| 50°-60° | 4176.7 | 24.3 |
| 60°-70° | 2627.6 | 15.3 |
| 70°-80° | 777.0 | 4.5 |
| 80°-90° | 137.4 | 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° | 17183.0 | 100.0 |
| 0°-180° | 17183.0 | 100.0 |

Coefficient of Utilization



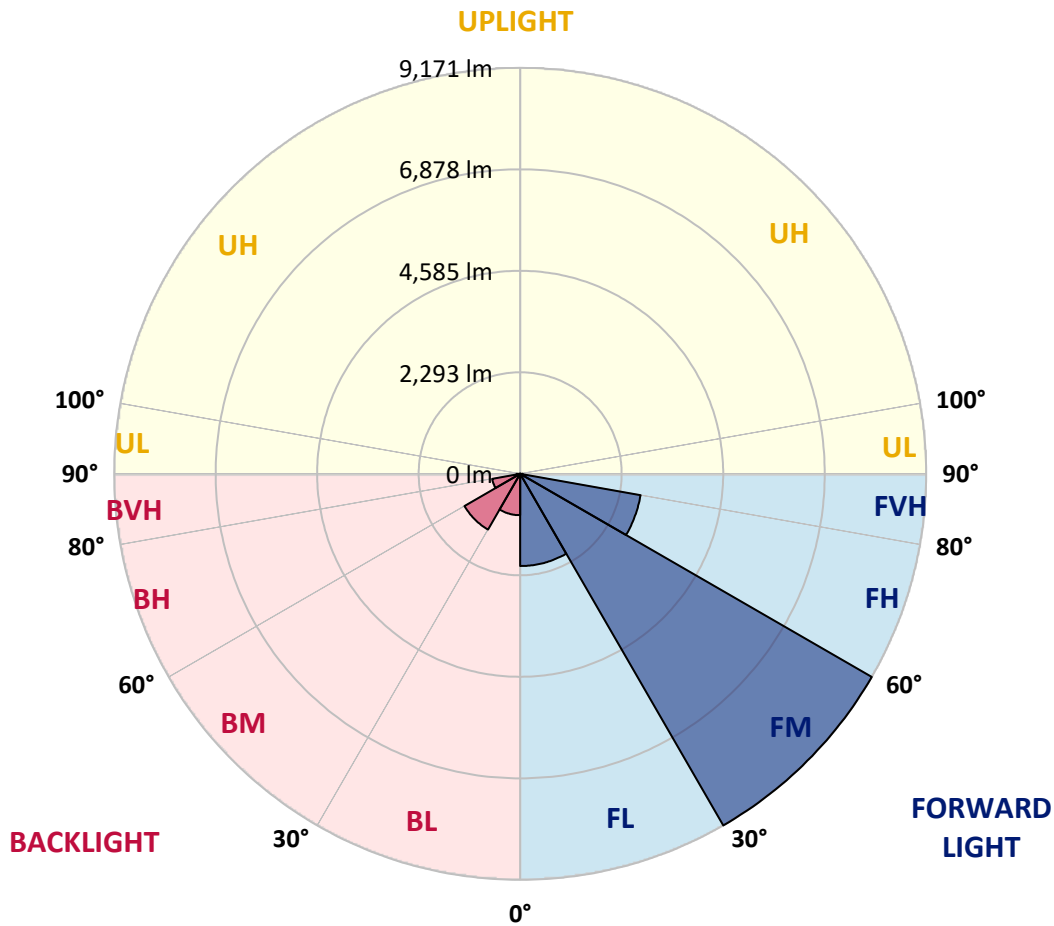
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2082.6 | 12.1 | | | |
| FM (30°-60°) | 9170.7 | 53.4 | | | |
| FH (60°-80°) | 2762.5 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 58.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 934.5 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1453.2 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 642.1 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 79.3 | 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 II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 |
| 2.5° | 4939.7 | 4936.2 | 4955.7 | 4889.1 | 4843.8 | 4782.5 | 4701.7 | 4598.6 | 4487.6 | 4370.3 |
| 5° | 5384.8 | 5353.7 | 5374.1 | 5324.4 | 5274.6 | 5182.2 | 5062.3 | 4894.4 | 4689.2 | 4455.6 |
| 7.5° | 5314.6 | 5293.3 | 5345.7 | 5390.1 | 5427.4 | 5415.9 | 5327.9 | 5152.0 | 4887.3 | 4548.0 |
| 10° | 4748.8 | 4724.8 | 4798.5 | 4952.2 | 5177.8 | 5374.1 | 5480.7 | 5371.4 | 5089.9 | 4649.3 |
| 12.5° | 4249.5 | 4238.0 | 4286.8 | 4411.2 | 4661.7 | 5038.3 | 5461.2 | 5563.3 | 5300.4 | 4769.2 |
| 15° | 4036.4 | 4022.1 | 4053.2 | 4116.3 | 4276.2 | 4627.1 | 5283.5 | 5694.8 | 5507.3 | 4907.8 |
| 17.5° | 3989.3 | 3973.3 | 3986.6 | 4019.5 | 4122.5 | 4389.9 | 5015.2 | 5759.6 | 5723.2 | 5062.3 |
| 20° | 4076.3 | 4063.0 | 4064.8 | 4063.0 | 4135.0 | 4347.3 | 4828.7 | 5734.7 | 5911.5 | 5204.4 |
| 22.5° | 4286.8 | 4264.6 | 4265.5 | 4218.5 | 4257.5 | 4421.9 | 4779.8 | 5668.1 | 6079.4 | 5328.8 |
| 25° | 4629.7 | 4589.8 | 4597.7 | 4477.8 | 4467.2 | 4588.9 | 4856.2 | 5616.6 | 6246.4 | 5428.3 |
| 27.5° | 5098.7 | 5053.4 | 5029.5 | 4850.9 | 4765.6 | 4826.0 | 5011.7 | 5634.4 | 6404.5 | 5514.5 |
| 30° | 5685.0 | 5629.9 | 5581.1 | 5327.9 | 5173.4 | 5151.1 | 5253.3 | 5751.6 | 6591.1 | 5605.1 |
| 32.5° | 6403.6 | 6339.7 | 6250.8 | 5915.1 | 5697.4 | 5581.1 | 5566.0 | 5960.4 | 6809.6 | 5720.5 |
| 35° | 7259.0 | 7175.5 | 7049.4 | 6615.0 | 6339.7 | 6101.6 | 5978.1 | 6261.5 | 7108.9 | 5894.6 |
| 37.5° | 8140.2 | 8046.1 | 7930.6 | 7413.6 | 7075.2 | 6724.3 | 6480.9 | 6670.1 | 7507.8 | 6130.9 |
| 40° | 8953.0 | 8847.3 | 8739.8 | 8279.7 | 7916.4 | 7493.5 | 7096.5 | 7187.1 | 7995.4 | 6413.4 |
| 42.5° | 9432.7 | 9354.5 | 9313.6 | 9064.9 | 8784.2 | 8355.2 | 7862.2 | 7800.0 | 8543.5 | 6738.5 |
| 45° | 9411.3 | 9379.4 | 9505.5 | 9608.5 | 9541.9 | 9303.9 | 8759.3 | 8477.8 | 9093.3 | 7020.1 |
| 47.5° | 8908.6 | 8929.9 | 9211.5 | 9790.6 | 10045.6 | 10169.9 | 9780.9 | 9143.1 | 9571.2 | 7230.6 |
| 50° | 7540.6 | 7558.4 | 8210.4 | 9459.3 | 10175.3 | 10876.1 | 10794.4 | 9792.4 | 9941.7 | 7359.4 |
| 52.5° | 6457.8 | 6469.4 | 6749.2 | 8476.9 | 9747.1 | 11231.4 | 11707.6 | 10404.4 | 10212.6 | 7394.9 |
| 55° | 4864.2 | 4904.2 | 5217.8 | 6650.6 | 8633.2 | 10949.9 | 12263.6 | 11035.1 | 10384.0 | 7398.5 |
| 57.5° | 2841.6 | 2885.1 | 3272.4 | 4514.2 | 6710.1 | 9968.3 | 12348.0 | 11594.7 | 10500.4 | 7370.1 |
| 60° | 1391.9 | 1410.6 | 1579.4 | 2372.6 | 4137.6 | 8077.1 | 11669.4 | 11865.7 | 10565.2 | 7355.0 |
| 62.5° | 938.0 | 935.4 | 942.5 | 1170.8 | 2038.6 | 5189.3 | 10255.2 | 11391.3 | 10530.6 | 7297.2 |
| 65° | 806.6 | 796.8 | 770.1 | 821.7 | 1056.2 | 2373.5 | 7923.5 | 9975.4 | 10266.8 | 7152.4 |
| 67.5° | 697.3 | 698.2 | 699.1 | 683.1 | 754.2 | 1095.3 | 4842.0 | 7857.7 | 9319.9 | 6466.7 |
| 70° | 577.4 | 585.4 | 588.9 | 588.9 | 614.7 | 718.6 | 2067.0 | 5385.7 | 7351.4 | 5070.3 |
| 72.5° | 525.9 | 509.0 | 510.8 | 501.9 | 501.9 | 547.2 | 832.3 | 3053.0 | 4631.5 | 2852.3 |
| 75° | 429.0 | 439.7 | 441.5 | 435.3 | 414.8 | 417.5 | 493.9 | 1280.9 | 1981.8 | 1183.2 |
| 77.5° | 370.4 | 370.4 | 374.0 | 369.5 | 353.5 | 312.7 | 329.6 | 496.5 | 674.2 | 485.0 |
| 80° | 297.6 | 296.7 | 311.8 | 320.7 | 295.8 | 231.0 | 210.5 | 274.5 | 299.4 | 213.2 |
| 82.5° | 144.8 | 153.7 | 214.1 | 244.3 | 224.7 | 167.0 | 128.8 | 170.6 | 159.9 | 94.2 |
| 85° | 84.4 | 79.9 | 95.9 | 135.9 | 128.8 | 92.4 | 62.2 | 88.8 | 83.5 | 48.0 |
| 87.5° | 26.6 | 24.9 | 19.5 | 46.2 | 37.3 | 25.8 | 16.9 | 25.8 | 23.1 | 10.7 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4305.5 | 0° | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 |
| 4319.7 | 2.5° | 4256.6 | 4151.8 | 4047.9 | 3952.9 | 3895.1 | 3857.8 | 3820.5 | 3778.8 | 3762.8 | 3738.8 |
| 4331.3 | 5° | 4214.0 | 4011.5 | 3831.2 | 3675.7 | 3534.5 | 3423.4 | 3311.5 | 3220.9 | 3180.0 | 3207.6 |
| 4367.7 | 7.5° | 4189.1 | 3896.0 | 3618.0 | 3332.8 | 3058.4 | 2838.9 | 2648.0 | 2513.8 | 2453.4 | 2468.5 |
| 4403.2 | 10° | 4166.9 | 3765.4 | 3341.7 | 2891.4 | 2497.0 | 2225.1 | 2029.7 | 1927.6 | 1889.4 | 1897.4 |
| 4451.2 | 12.5° | 4146.5 | 3618.9 | 3008.6 | 2416.1 | 1996.9 | 1817.4 | 1761.5 | 1762.4 | 1769.5 | 1774.8 |
| 4527.6 | 15° | 4142.9 | 3442.1 | 2636.4 | 2000.4 | 1726.8 | 1715.3 | 1775.7 | 1813.9 | 1834.3 | 1840.5 |
| 4591.5 | 17.5° | 4137.6 | 3230.7 | 2257.1 | 1717.0 | 1661.1 | 1739.3 | 1795.2 | 1820.1 | 1836.1 | 1837.0 |
| 4653.7 | 20° | 4116.3 | 2962.4 | 1907.1 | 1582.0 | 1646.9 | 1714.4 | 1749.0 | 1768.6 | 1781.9 | 1786.3 |
| 4700.8 | 22.5° | 4050.6 | 2664.0 | 1634.4 | 1521.6 | 1590.0 | 1644.2 | 1685.1 | 1707.3 | 1715.3 | 1720.6 |
| 4709.7 | 25° | 3932.4 | 2330.0 | 1446.1 | 1463.9 | 1511.0 | 1579.4 | 1612.2 | 1616.7 | 1614.0 | 1622.0 |
| 4687.5 | 27.5° | 3777.9 | 1972.0 | 1328.9 | 1385.7 | 1446.1 | 1504.7 | 1522.5 | 1519.9 | 1514.5 | 1523.4 |
| 4649.3 | 30° | 3591.3 | 1650.4 | 1254.3 | 1297.8 | 1380.4 | 1433.7 | 1449.7 | 1443.5 | 1432.8 | 1442.6 |
| 4629.7 | 32.5° | 3394.1 | 1387.5 | 1193.0 | 1236.5 | 1326.2 | 1378.6 | 1394.6 | 1388.4 | 1380.4 | 1388.4 |
| 4651.9 | 35° | 3210.3 | 1203.6 | 1136.1 | 1195.6 | 1283.6 | 1335.1 | 1355.5 | 1356.4 | 1356.4 | 1366.2 |
| 4710.6 | 37.5° | 3041.5 | 1096.1 | 1089.0 | 1169.9 | 1254.3 | 1300.4 | 1329.8 | 1331.5 | 1293.3 | 1296.0 |
| 4810.0 | 40° | 2885.1 | 1050.8 | 1067.7 | 1153.0 | 1225.8 | 1270.2 | 1272.0 | 1172.5 | 1102.4 | 1100.6 |
| 4923.7 | 42.5° | 2757.2 | 1042.0 | 1073.9 | 1151.2 | 1205.4 | 1207.2 | 1081.9 | 1004.6 | 985.1 | 986.0 |
| 5028.6 | 45° | 2637.3 | 1039.3 | 1088.1 | 1151.2 | 1175.2 | 1042.8 | 958.5 | 938.0 | 939.8 | 946.9 |
| 5075.6 | 47.5° | 2503.2 | 1028.6 | 1090.8 | 1135.2 | 1088.1 | 927.4 | 902.5 | 893.6 | 890.1 | 891.8 |
| 5065.0 | 50° | 2356.6 | 990.4 | 1057.1 | 1103.2 | 938.9 | 877.6 | 846.5 | 843.9 | 848.3 | 851.0 |
| 5005.5 | 52.5° | 2202.1 | 928.3 | 999.3 | 1045.5 | 870.5 | 834.1 | 799.5 | 805.7 | 825.2 | 831.4 |
| 4943.3 | 55° | 2100.8 | 855.4 | 922.9 | 930.0 | 822.5 | 793.2 | 763.9 | 778.1 | 814.6 | 826.1 |
| 4906.0 | 57.5° | 2074.1 | 778.1 | 835.9 | 827.9 | 761.3 | 757.7 | 739.9 | 752.4 | 798.6 | 815.4 |
| 4904.2 | 60° | 2066.1 | 708.8 | 750.6 | 744.4 | 701.7 | 718.6 | 714.2 | 720.4 | 736.4 | 741.7 |
| 4886.4 | 62.5° | 2004.0 | 653.8 | 674.2 | 665.3 | 648.4 | 677.8 | 688.4 | 675.1 | 687.5 | 693.7 |
| 4764.7 | 65° | 1845.8 | 609.4 | 599.6 | 593.4 | 600.5 | 627.1 | 648.4 | 621.8 | 633.3 | 651.1 |
| 4295.7 | 67.5° | 1584.7 | 549.0 | 522.3 | 529.4 | 551.6 | 565.8 | 593.4 | 563.2 | 572.9 | 603.1 |
| 3459.9 | 70° | 1281.8 | 472.6 | 448.6 | 469.0 | 490.3 | 519.6 | 524.1 | 503.7 | 526.8 | 560.5 |
| 2111.4 | 72.5° | 906.9 | 395.3 | 378.4 | 420.2 | 427.3 | 465.5 | 455.7 | 445.9 | 477.9 | 489.4 |
| 1043.7 | 75° | 628.9 | 318.9 | 309.1 | 341.1 | 366.9 | 399.7 | 392.6 | 404.2 | 471.7 | 477.0 |
| 521.4 | 77.5° | 398.0 | 247.8 | 241.6 | 262.0 | 297.6 | 334.0 | 345.5 | 477.0 | 805.7 | 837.6 |
| 270.9 | 80° | 231.0 | 184.8 | 177.7 | 193.6 | 224.7 | 258.5 | 333.1 | 585.4 | 531.2 | 525.0 |
| 121.7 | 82.5° | 128.8 | 127.0 | 118.1 | 122.6 | 150.1 | 186.5 | 470.8 | 412.2 | 334.9 | 345.5 |
| 48.9 | 85° | 60.4 | 74.6 | 64.0 | 61.3 | 84.4 | 218.5 | 314.5 | 235.4 | 156.3 | 152.8 |
| 10.7 | 87.5° | 16.0 | 14.2 | 14.2 | 16.0 | 35.5 | 188.3 | 125.2 | 100.4 | 59.5 | 57.7 |
| 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

