

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: P954072

Luminaire Tested: **GALN-SB7B-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954072  
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-SB7B-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

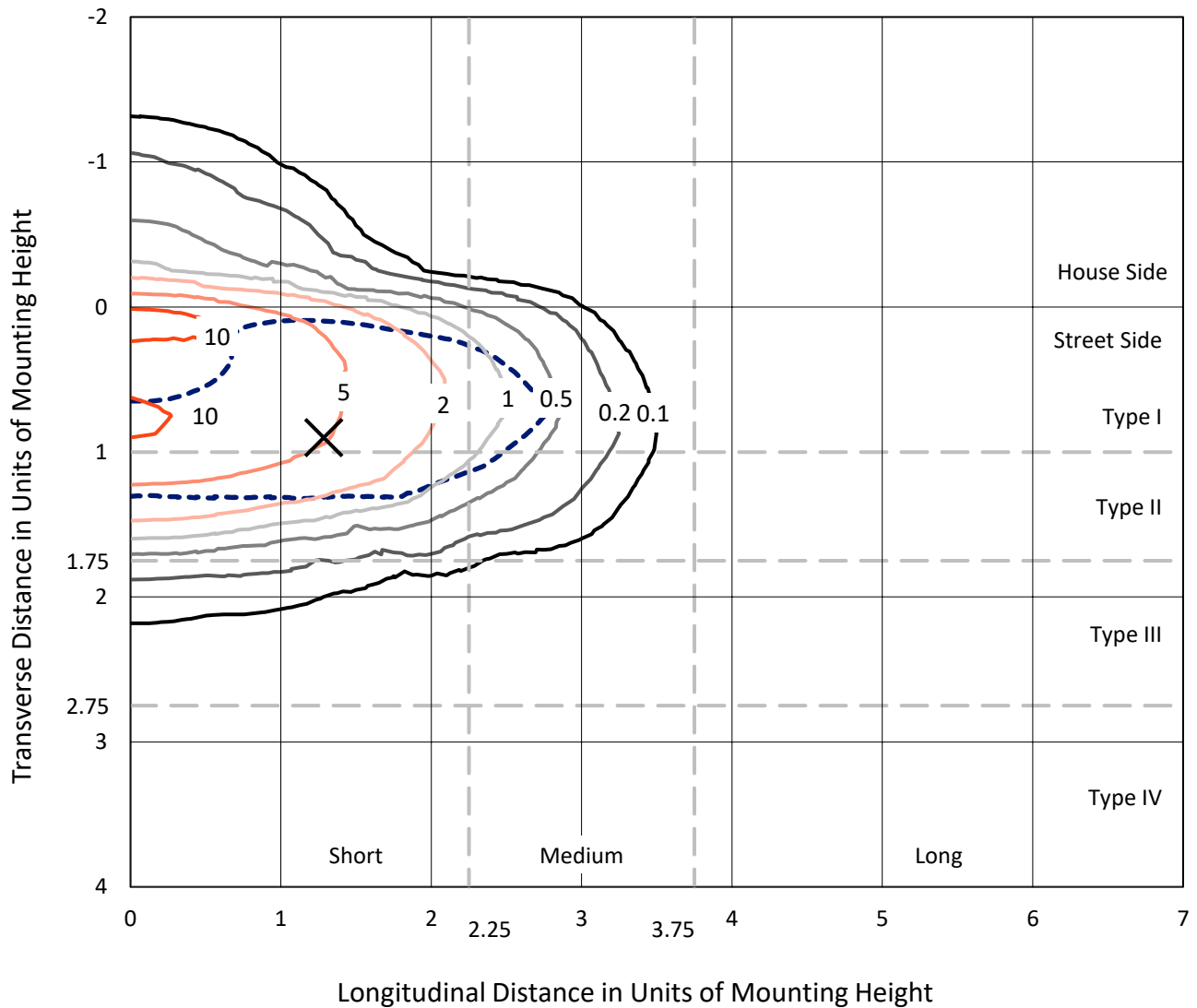
Lumens per Lamp: N/A  
Luminaire Lumens: 24742 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P954072  
 CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

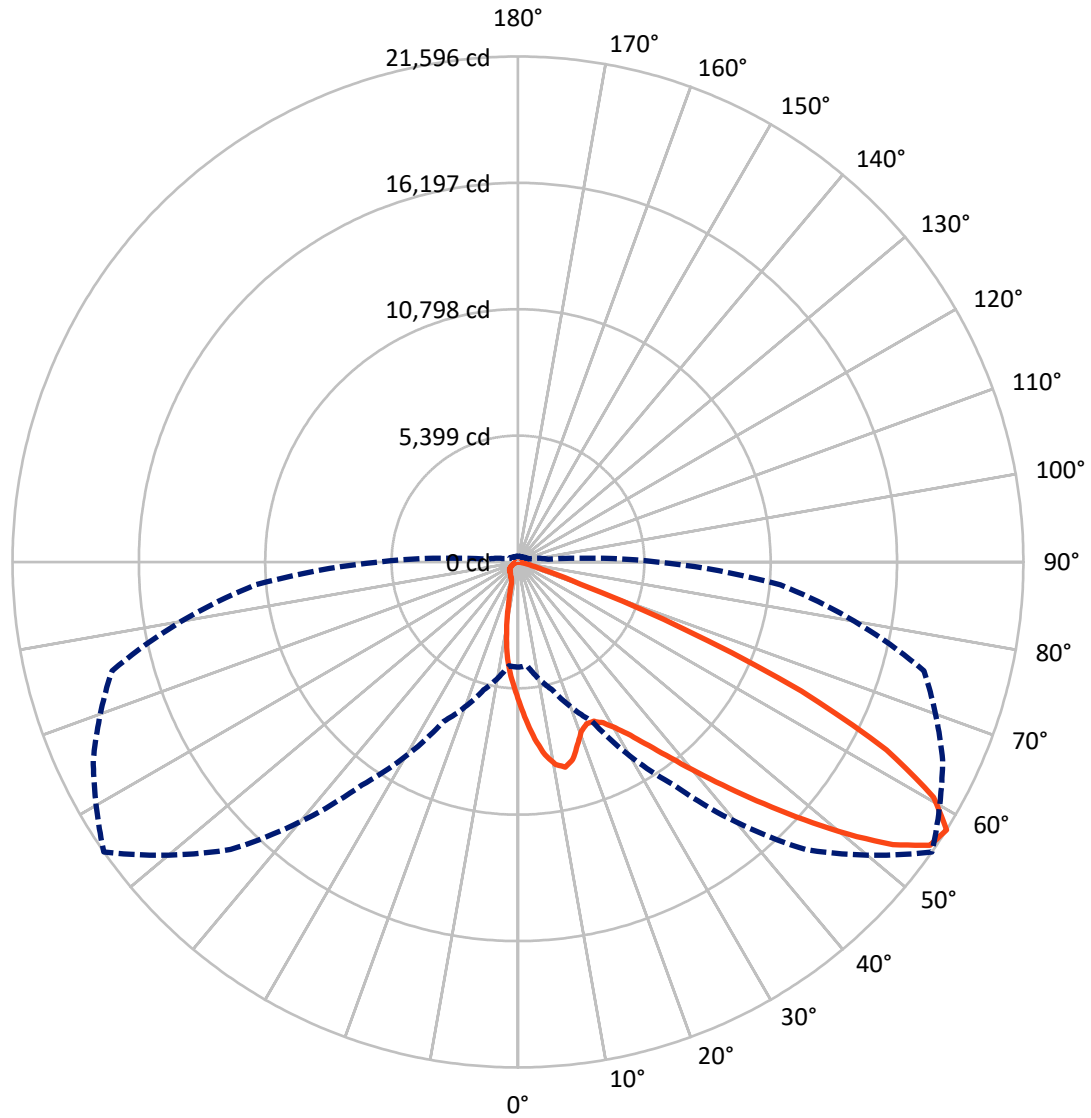
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P954072  
CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P954072  
 CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1932.3   | 0.0    | 1932.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 22809.7  | 0.0    | 22809.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 24742.0  | 0.0    | 24742.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 554.7   | 2.2       |
| 10°-20°   | 1340.0  | 5.4       |
| 20°-30°   | 2144.0  | 8.7       |
| 30°-40°   | 3628.8  | 14.7      |
| 40°-50°   | 5957.8  | 24.1      |
| 50°-60°   | 6548.0  | 26.5      |
| 60°-70°   | 3755.9  | 15.2      |
| 70°-80°   | 767.4   | 3.1       |
| 80°-90°   | 45.3    | 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°    | 24742.0 | 100.0     |
| 0°-180°   | 24742.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P954072

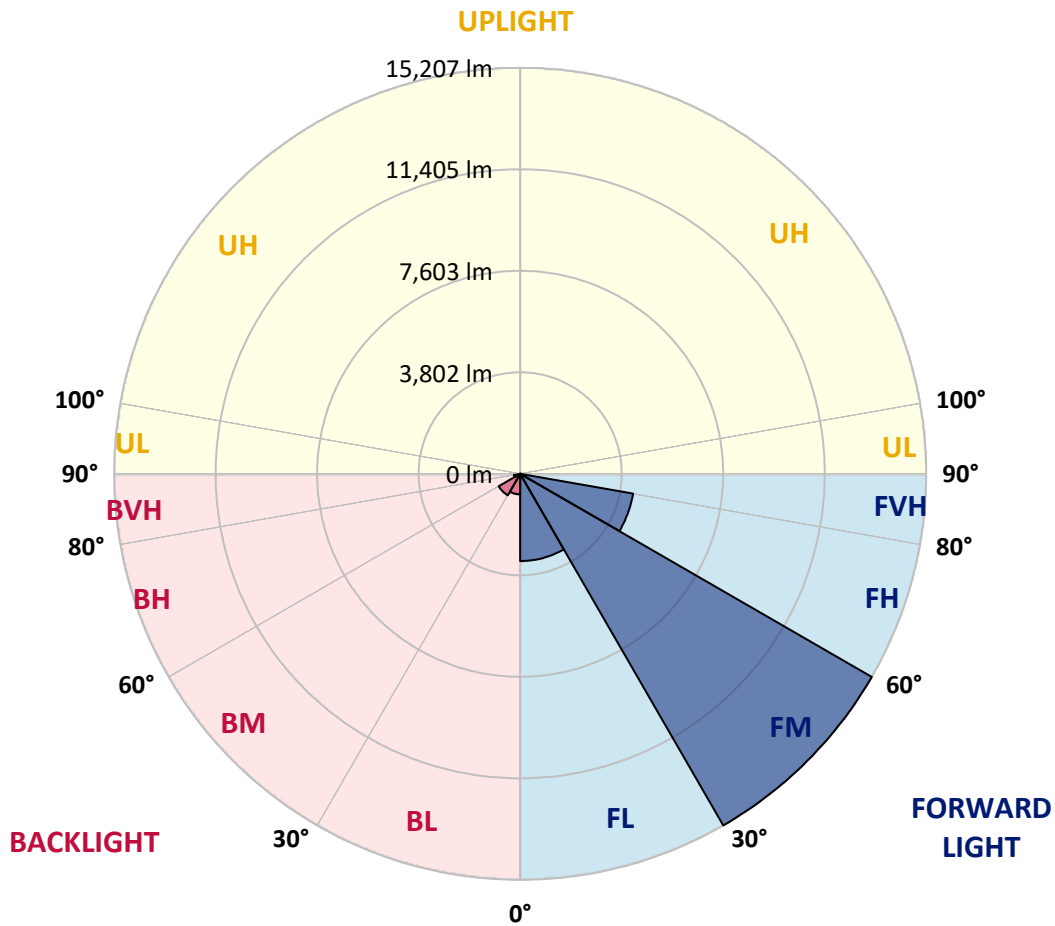
CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3267.3  | 13.2      |                         |      |         |
| FM (30°-60°)   | 15206.6 | 61.5      |                         |      |         |
| FH (60°-80°)   | 4293.6  | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 42.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 771.4   | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 928.0   | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 229.8   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.1     | 0.0       |                         |      | G0/10   |
| 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



REPORT NUMBER: P954072

CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  | 5962.2  |
| 2.5°  | 7397.8  | 7304.8  | 7291.0  | 7272.7  | 7095.8  | 6963.0  | 6770.8  | 6560.3  | 6323.8  | 6082.7  |
| 5°    | 8546.7  | 8473.4  | 8459.7  | 8374.3  | 8172.9  | 7947.1  | 7605.3  | 7173.6  | 6732.7  | 6213.9  |
| 7.5°  | 8769.4  | 8755.7  | 8818.2  | 8815.2  | 8787.7  | 8609.2  | 8320.9  | 7806.7  | 7144.6  | 6375.7  |
| 10°   | 7776.2  | 7811.3  | 7997.4  | 8160.7  | 8601.6  | 8857.9  | 8795.3  | 8371.2  | 7568.7  | 6560.3  |
| 12.5° | 6871.5  | 6830.3  | 6963.0  | 7147.6  | 7660.3  | 8423.1  | 8992.1  | 8842.6  | 8053.9  | 6769.3  |
| 15°   | 6304.0  | 6287.2  | 6361.9  | 6447.4  | 6837.9  | 7606.9  | 8763.3  | 9225.6  | 8520.7  | 7016.4  |
| 17.5° | 6122.4  | 6108.7  | 6131.6  | 6152.9  | 6406.2  | 7001.2  | 8218.6  | 9460.5  | 8967.7  | 7298.7  |
| 20°   | 6270.4  | 6252.1  | 6249.0  | 6232.3  | 6337.5  | 6743.3  | 7725.9  | 9477.3  | 9369.0  | 7555.0  |
| 22.5° | 6702.1  | 6680.8  | 6606.0  | 6538.9  | 6548.1  | 6778.4  | 7506.2  | 9309.5  | 9671.0  | 7794.5  |
| 25°   | 7484.8  | 7449.7  | 7294.1  | 7068.3  | 6924.9  | 7022.5  | 7539.7  | 9088.3  | 9959.4  | 7982.2  |
| 27.5° | 8464.3  | 8418.5  | 8218.6  | 7883.0  | 7555.0  | 7436.0  | 7782.3  | 8935.7  | 10198.9 | 8125.6  |
| 30°   | 9423.9  | 9364.4  | 9167.6  | 8906.7  | 8427.7  | 8052.3  | 8220.2  | 9002.8  | 10484.2 | 8275.1  |
| 32.5° | 10459.8 | 10403.4 | 10142.5 | 9819.0  | 9422.4  | 8917.4  | 8819.7  | 9330.8  | 10833.6 | 8484.1  |
| 35°   | 11770.3 | 11681.8 | 11311.1 | 10870.2 | 10449.1 | 9938.0  | 9631.4  | 9896.8  | 11298.9 | 8803.0  |
| 37.5° | 13262.4 | 13143.4 | 12743.7 | 12135.0 | 11585.7 | 11013.6 | 10620.0 | 10674.9 | 11980.9 | 9230.1  |
| 40°   | 14669.1 | 14560.7 | 14191.5 | 13617.9 | 12928.3 | 12234.1 | 11814.6 | 11692.5 | 12922.2 | 9750.4  |
| 42.5° | 15512.7 | 15415.1 | 15259.5 | 15016.9 | 14435.6 | 13727.7 | 13198.3 | 12934.4 | 14035.9 | 10372.8 |
| 45°   | 15560.0 | 15474.6 | 15683.6 | 15965.9 | 15851.4 | 15380.0 | 14734.7 | 14251.0 | 15154.2 | 10957.2 |
| 47.5° | 14803.3 | 14745.3 | 15380.0 | 16365.6 | 16856.8 | 17055.2 | 16460.2 | 15457.8 | 16077.2 | 11376.7 |
| 50°   | 12740.6 | 12719.3 | 14025.2 | 15834.6 | 17239.8 | 18522.8 | 18280.3 | 16580.7 | 16792.8 | 11593.4 |
| 52.5° | 11047.2 | 10969.4 | 11730.7 | 14135.1 | 16682.9 | 19294.8 | 20059.2 | 17682.2 | 17293.2 | 11634.6 |
| 55°   | 8378.8  | 8310.2  | 9265.2  | 11291.3 | 14887.2 | 19020.2 | 21360.5 | 18818.8 | 17651.7 | 11529.3 |
| 57.5° | 4494.5  | 4451.8  | 5658.6  | 7515.3  | 11637.6 | 17372.5 | 21595.5 | 20021.0 | 17953.8 | 11250.1 |
| 60°   | 1749.9  | 1742.3  | 2193.9  | 3646.3  | 7072.9  | 14133.6 | 20410.0 | 20742.6 | 18142.9 | 10906.8 |
| 62.5° | 1058.8  | 1081.7  | 1154.9  | 1637.0  | 3124.5  | 8780.1  | 17677.6 | 19921.8 | 18269.6 | 10592.5 |
| 65°   | 875.7   | 877.2   | 886.4   | 1124.4  | 1496.7  | 3673.7  | 13308.2 | 17221.5 | 17956.8 | 10032.6 |
| 67.5° | 750.6   | 764.3   | 799.4   | 892.5   | 1055.7  | 1611.1  | 7661.8  | 13340.2 | 16054.3 | 8729.7  |
| 70°   | 591.9   | 610.3   | 654.5   | 733.8   | 814.7   | 1008.4  | 2831.6  | 8876.2  | 12264.6 | 6580.1  |
| 72.5° | 498.9   | 497.4   | 520.2   | 596.5   | 646.9   | 709.4   | 1089.3  | 4973.6  | 7127.8  | 3141.3  |
| 75°   | 386.0   | 401.2   | 430.2   | 498.9   | 529.4   | 514.1   | 590.4   | 1817.0  | 2553.9  | 952.0   |
| 77.5° | 302.1   | 314.3   | 340.2   | 407.3   | 437.9   | 364.6   | 340.2   | 649.9   | 820.8   | 341.7   |
| 80°   | 135.8   | 146.5   | 231.9   | 300.6   | 357.0   | 251.7   | 184.6   | 332.6   | 364.6   | 155.6   |
| 82.5° | 24.4    | 41.2    | 135.8   | 158.7   | 183.1   | 163.2   | 96.1    | 172.4   | 178.5   | 62.6    |
| 85°   | 1.5     | 3.1     | 47.3    | 58.0    | 73.2    | 53.4    | 29.0    | 68.7    | 59.5    | 21.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.5     | 1.5     | 7.6     | 9.2     | 12.2    | 9.2     | 7.6     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P954072  
 CATALOG NUMBER: GALN-SB7B-940-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5962.2 | 0°    | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 | 5962.2 |
| 5975.9 | 2.5°  | 5866.1 | 5649.5 | 5438.9 | 5266.5 | 5165.8 | 4995.0 | 4882.1 | 4863.7 | 4816.5 | 4857.6 |
| 5991.2 | 5°    | 5753.2 | 5365.7 | 4973.6 | 4622.7 | 4334.4 | 3962.1 | 3684.4 | 3567.0 | 3464.7 | 3499.8 |
| 6030.9 | 7.5°  | 5699.8 | 5088.0 | 4477.8 | 3878.2 | 3261.8 | 2666.8 | 2224.4 | 2039.8 | 1899.4 | 1919.3 |
| 6075.1 | 10°   | 5628.1 | 4799.7 | 3843.1 | 2927.7 | 2102.3 | 1515.0 | 1209.8 | 1096.9 | 1034.4 | 1035.9 |
| 6140.7 | 12.5° | 5573.2 | 4454.9 | 3106.2 | 1984.9 | 1280.0 | 967.3  | 872.7  | 845.2  | 826.9  | 828.4  |
| 6239.9 | 15°   | 5545.7 | 4049.1 | 2378.5 | 1322.7 | 915.4  | 819.3  | 796.4  | 784.2  | 772.0  | 770.4  |
| 6349.7 | 17.5° | 5499.9 | 3597.5 | 1740.8 | 965.7  | 801.0  | 767.4  | 747.6  | 733.8  | 718.6  | 715.5  |
| 6444.3 | 20°   | 5431.3 | 3084.8 | 1272.4 | 816.2  | 750.6  | 724.7  | 697.2  | 678.9  | 660.6  | 657.6  |
| 6503.8 | 22.5° | 5304.7 | 2543.2 | 977.9  | 755.2  | 714.0  | 685.0  | 651.4  | 630.1  | 611.8  | 608.7  |
| 6474.8 | 25°   | 5069.7 | 2035.2 | 823.8  | 717.1  | 682.0  | 646.9  | 610.3  | 581.3  | 564.5  | 561.4  |
| 6412.3 | 27.5° | 4772.2 | 1598.9 | 747.6  | 682.0  | 640.8  | 608.7  | 567.5  | 540.1  | 524.8  | 521.8  |
| 6329.9 | 30°   | 4421.3 | 1231.2 | 703.3  | 642.3  | 591.9  | 564.5  | 527.9  | 505.0  | 495.8  | 495.8  |
| 6271.9 | 32.5° | 4043.0 | 984.0  | 685.0  | 602.6  | 549.2  | 518.7  | 489.7  | 480.6  | 477.5  | 476.0  |
| 6304.0 | 35°   | 3687.5 | 854.4  | 675.9  | 570.6  | 511.1  | 482.1  | 469.9  | 471.4  | 477.5  | 477.5  |
| 6403.1 | 37.5° | 3371.7 | 813.2  | 671.3  | 547.7  | 477.5  | 451.6  | 459.2  | 472.9  | 466.8  | 466.8  |
| 6577.0 | 40°   | 3086.4 | 817.7  | 668.2  | 530.9  | 450.1  | 434.8  | 450.1  | 439.4  | 424.1  | 422.6  |
| 6789.1 | 42.5° | 2868.2 | 855.9  | 662.1  | 517.2  | 433.3  | 422.6  | 416.5  | 399.7  | 398.2  | 401.2  |
| 7008.8 | 45°   | 2709.5 | 889.4  | 660.6  | 511.1  | 415.0  | 395.1  | 387.5  | 370.7  | 401.2  | 408.9  |
| 7098.8 | 47.5° | 2521.9 | 889.4  | 660.6  | 489.7  | 384.5  | 376.8  | 364.6  | 346.3  | 376.8  | 384.5  |
| 7013.4 | 50°   | 2279.3 | 833.0  | 634.7  | 465.3  | 360.1  | 355.5  | 334.1  | 311.2  | 305.1  | 309.7  |
| 6813.5 | 52.5° | 1972.7 | 730.8  | 569.1  | 431.8  | 335.6  | 326.5  | 300.6  | 283.8  | 279.2  | 279.2  |
| 6455.0 | 55°   | 1623.3 | 611.8  | 480.6  | 382.9  | 309.7  | 292.9  | 274.6  | 267.0  | 262.4  | 259.4  |
| 5953.1 | 57.5° | 1319.7 | 501.9  | 386.0  | 340.2  | 285.3  | 263.9  | 257.8  | 248.7  | 241.1  | 236.5  |
| 5533.5 | 60°   | 1083.2 | 395.1  | 318.9  | 302.1  | 260.9  | 241.1  | 239.5  | 227.3  | 207.5  | 204.4  |
| 5187.2 | 62.5° | 836.1  | 289.9  | 268.5  | 262.4  | 236.5  | 219.7  | 216.6  | 192.2  | 161.7  | 155.6  |
| 4695.9 | 65°   | 590.4  | 225.8  | 216.6  | 230.4  | 210.5  | 195.3  | 187.7  | 151.0  | 119.0  | 114.4  |
| 3930.1 | 67.5° | 415.0  | 189.2  | 170.9  | 201.4  | 183.1  | 163.2  | 158.7  | 128.2  | 99.2   | 96.1   |
| 2972.0 | 70°   | 296.0  | 154.1  | 140.4  | 172.4  | 146.5  | 143.4  | 134.3  | 106.8  | 80.9   | 77.8   |
| 1470.7 | 72.5° | 209.0  | 117.5  | 108.3  | 149.5  | 100.7  | 123.6  | 109.8  | 82.4   | 61.0   | 58.0   |
| 500.4  | 75°   | 154.1  | 83.9   | 76.3   | 87.0   | 73.2   | 93.1   | 77.8   | 54.9   | 38.1   | 36.6   |
| 225.8  | 77.5° | 112.9  | 53.4   | 45.8   | 42.7   | 42.7   | 58.0   | 42.7   | 22.9   | 16.8   | 15.3   |
| 114.4  | 80°   | 79.3   | 24.4   | 21.4   | 18.3   | 16.8   | 13.7   | 6.1    | 3.1    | 1.5    | 1.5    |
| 39.7   | 82.5° | 47.3   | 10.7   | 10.7   | 7.6    | 4.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15.3   | 85°   | 10.7   | 4.6    | 4.6    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6.1    | 87.5° | 1.5    | 1.5    | 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

