

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: P956928

Luminaire Tested: **GALN-SB9B-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956928  
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-SB9B-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

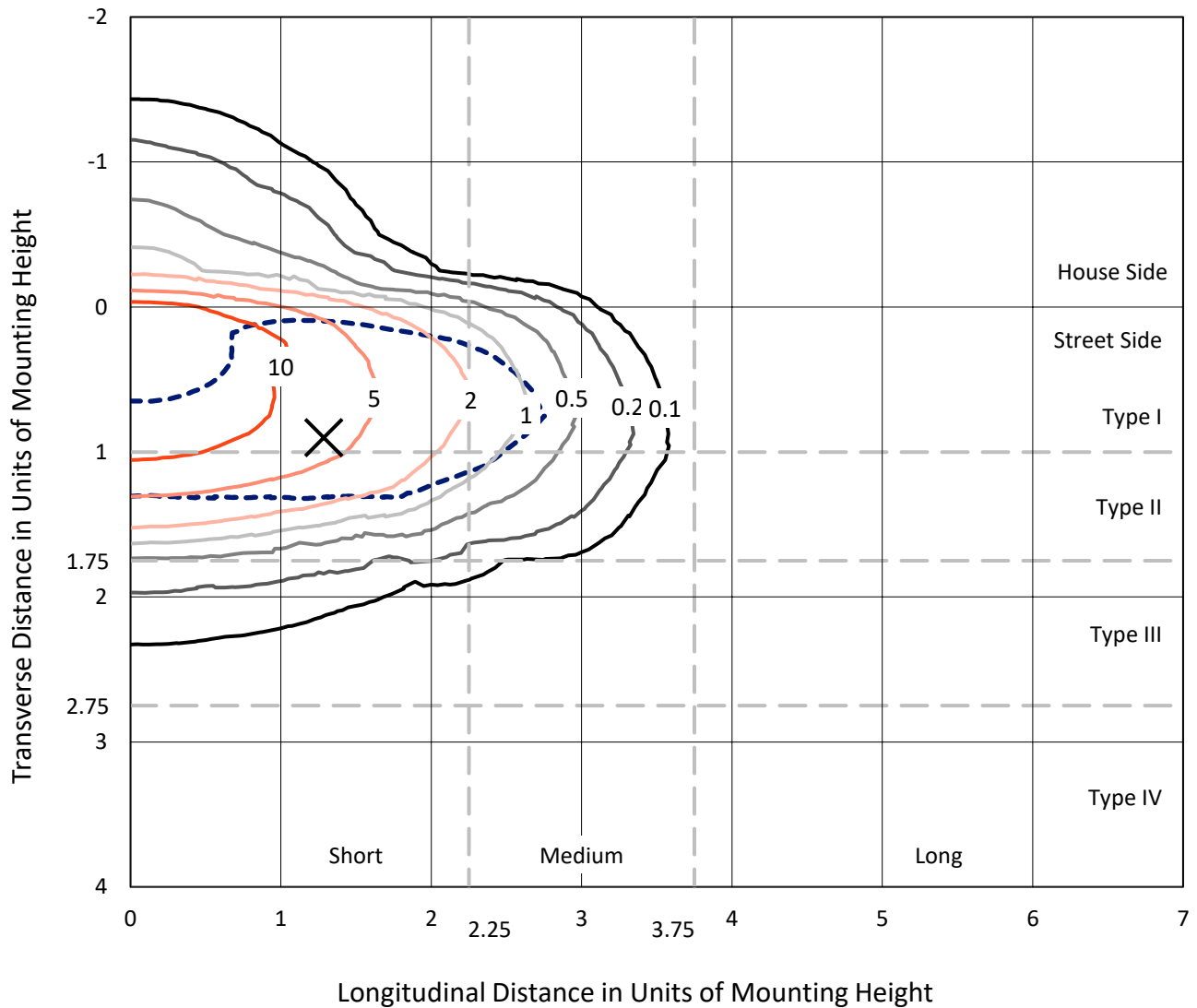
Lumens per Lamp: N/A  
Luminaire Lumens: 31689 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

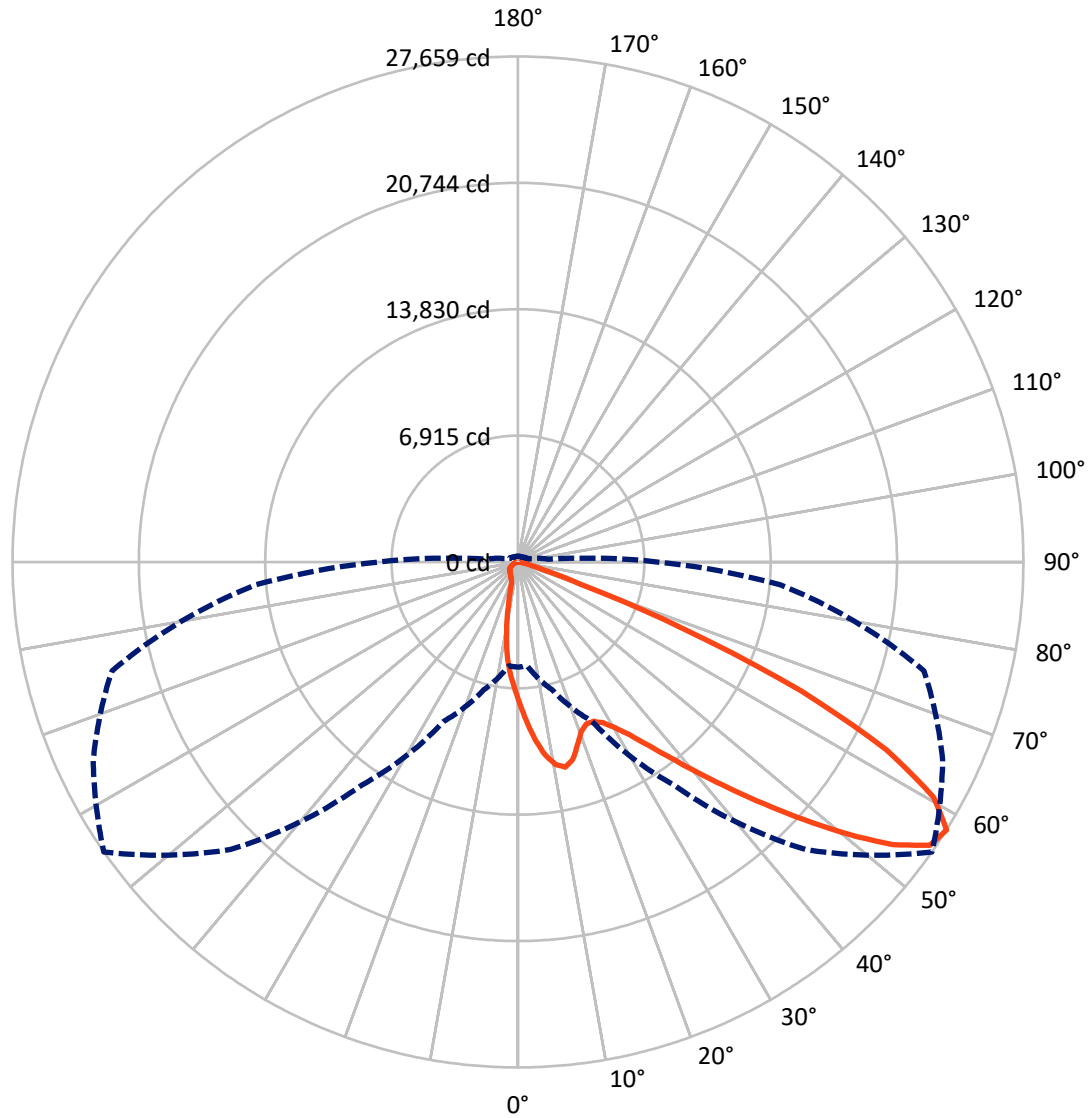
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2474.8   | 0.0    | 2474.8  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 29214.2  | 0.0    | 29214.2 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 31689.0  | 0.0    | 31689.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 710.5   | 2.2       |
| 10°-20°   | 1716.2  | 5.4       |
| 20°-30°   | 2746.0  | 8.7       |
| 30°-40°   | 4647.7  | 14.7      |
| 40°-50°   | 7630.6  | 24.1      |
| 50°-60°   | 8386.5  | 26.5      |
| 60°-70°   | 4810.5  | 15.2      |
| 70°-80°   | 982.9   | 3.1       |
| 80°-90°   | 58.0    | 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°    | 31689.0 | 100.0     |
| 0°-180°   | 31689.0 | 100.0     |

**Coefficient of Utilization**



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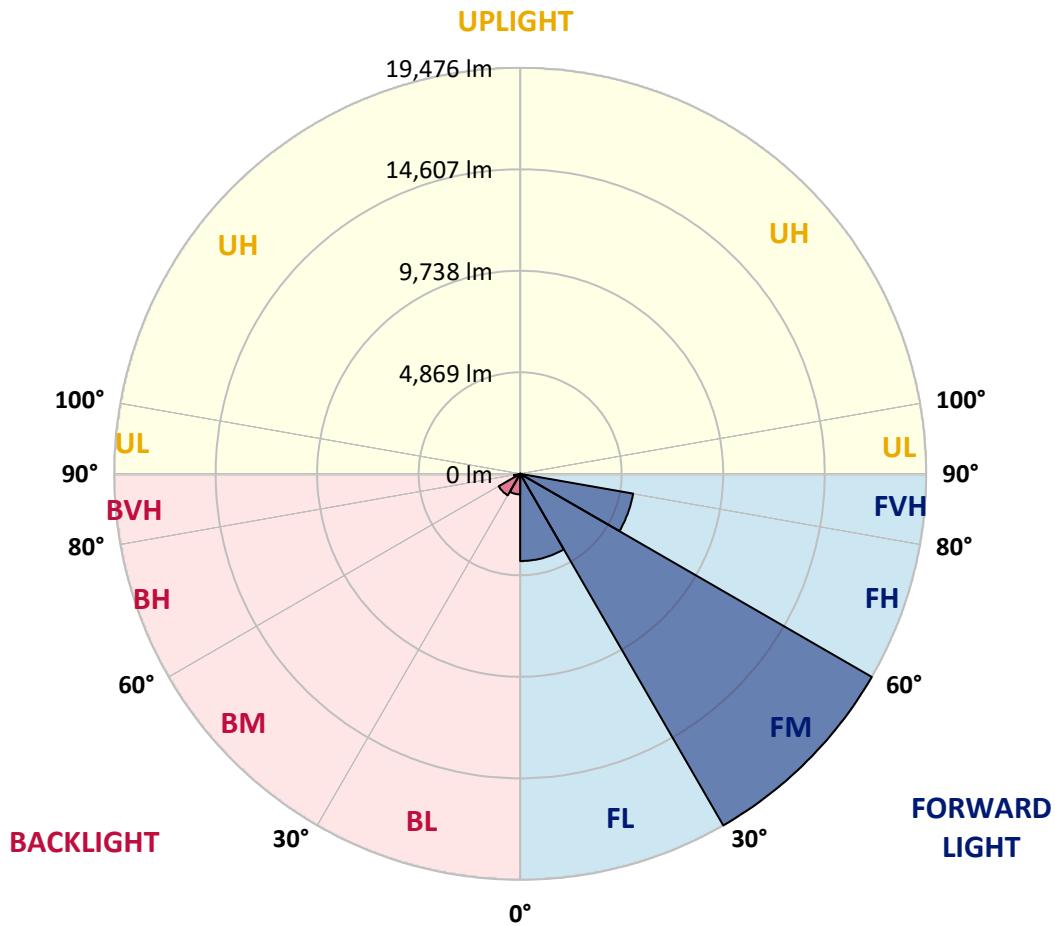
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4184.7  | 13.2      |                         |      |         |
| FM (30°-60°)   | 19476.3 | 61.5      |                         |      |         |
| FH (60°-80°)   | 5499.1  | 17.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 54.1    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 988.0   | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1188.5  | 3.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 294.3   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.9     | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  | 7636.3  |
| 2.5°  | 9475.0  | 9355.8  | 9338.2  | 9314.8  | 9088.1  | 8918.1  | 8671.9  | 8402.2  | 8099.4  | 7790.6  |
| 5°    | 10946.4 | 10852.6 | 10835.0 | 10725.6 | 10467.6 | 10178.4 | 9740.7  | 9187.8  | 8623.0  | 7958.7  |
| 7.5°  | 11231.6 | 11214.1 | 11294.2 | 11290.3 | 11255.1 | 11026.5 | 10657.2 | 9998.7  | 9150.6  | 8165.8  |
| 10°   | 9959.6  | 10004.5 | 10242.9 | 10452.0 | 11016.7 | 11345.0 | 11264.9 | 10721.6 | 9693.8  | 8402.2  |
| 12.5° | 8800.9  | 8748.1  | 8918.1  | 9154.5  | 9811.1  | 10788.1 | 11516.9 | 11325.4 | 10315.2 | 8669.9  |
| 15°   | 8074.0  | 8052.5  | 8148.2  | 8257.6  | 8757.9  | 9742.7  | 11223.8 | 11815.9 | 10913.1 | 8986.5  |
| 17.5° | 7841.4  | 7823.9  | 7853.2  | 7880.5  | 8204.9  | 8966.9  | 10526.2 | 12116.8 | 11485.7 | 9348.0  |
| 20°   | 8031.0  | 8007.5  | 8003.6  | 7982.1  | 8117.0  | 8636.7  | 9895.1  | 12138.3 | 11999.6 | 9676.3  |
| 22.5° | 8584.0  | 8556.6  | 8460.9  | 8374.9  | 8386.6  | 8681.7  | 9613.7  | 11923.4 | 12386.5 | 9983.0  |
| 25°   | 9586.4  | 9541.4  | 9342.1  | 9052.9  | 8869.2  | 8994.3  | 9656.7  | 11640.0 | 12755.8 | 10223.4 |
| 27.5° | 10840.8 | 10782.2 | 10526.2 | 10096.4 | 9676.3  | 9523.8  | 9967.4  | 11444.6 | 13062.6 | 10407.1 |
| 30°   | 12069.9 | 11993.7 | 11741.6 | 11407.5 | 10793.9 | 10313.3 | 10528.2 | 11530.6 | 13428.0 | 10598.5 |
| 32.5° | 13396.7 | 13324.4 | 12990.3 | 12576.0 | 12068.0 | 11421.2 | 11296.1 | 11950.7 | 13875.4 | 10866.2 |
| 35°   | 15075.2 | 14961.8 | 14487.0 | 13922.3 | 13383.0 | 12728.4 | 12335.7 | 12675.7 | 14471.4 | 11274.6 |
| 37.5° | 16986.2 | 16833.8 | 16321.8 | 15542.2 | 14838.7 | 14106.0 | 13601.9 | 13672.2 | 15344.8 | 11821.8 |
| 40°   | 18787.8 | 18649.1 | 18176.2 | 17441.5 | 16558.3 | 15669.2 | 15131.8 | 14975.5 | 16550.5 | 12488.1 |
| 42.5° | 19868.4 | 19743.3 | 19544.0 | 19233.3 | 18488.8 | 17582.2 | 16904.1 | 16566.1 | 17976.9 | 13285.3 |
| 45°   | 19928.9 | 19819.5 | 20087.2 | 20448.7 | 20302.2 | 19698.4 | 18871.8 | 18252.4 | 19409.2 | 14033.7 |
| 47.5° | 18959.8 | 18885.5 | 19698.4 | 20960.7 | 21589.8 | 21843.9 | 21081.8 | 19798.0 | 20591.3 | 14571.0 |
| 50°   | 16317.9 | 16290.6 | 17963.2 | 20280.7 | 22080.3 | 23723.6 | 23412.9 | 21236.2 | 21507.8 | 14848.5 |
| 52.5° | 14149.0 | 14049.3 | 15024.4 | 18103.9 | 21367.1 | 24712.4 | 25691.3 | 22647.0 | 22148.7 | 14901.3 |
| 55°   | 10731.4 | 10643.5 | 11866.7 | 14461.6 | 19067.2 | 24360.6 | 27358.1 | 24102.7 | 22607.9 | 14766.4 |
| 57.5° | 5756.5  | 5701.8  | 7247.4  | 9625.4  | 14905.2 | 22250.3 | 27659.0 | 25642.5 | 22994.8 | 14408.9 |
| 60°   | 2241.2  | 2231.5  | 2809.9  | 4670.1  | 9058.8  | 18101.9 | 26140.7 | 26566.7 | 23237.1 | 13969.2 |
| 62.5° | 1356.1  | 1385.4  | 1479.2  | 2096.7  | 4001.8  | 11245.3 | 22641.1 | 25515.5 | 23399.3 | 13566.7 |
| 65°   | 1121.6  | 1123.6  | 1135.3  | 1440.1  | 1916.9  | 4705.3  | 17044.8 | 22056.9 | 22998.7 | 12849.6 |
| 67.5° | 961.4   | 979.0   | 1023.9  | 1143.1  | 1352.2  | 2063.4  | 9813.0  | 17085.9 | 20562.0 | 11180.8 |
| 70°   | 758.2   | 781.6   | 838.3   | 939.9   | 1043.4  | 1291.6  | 3626.6  | 11368.4 | 15708.3 | 8427.6  |
| 72.5° | 639.0   | 637.0   | 666.3   | 764.0   | 828.5   | 908.6   | 1395.2  | 6370.1  | 9129.1  | 4023.3  |
| 75°   | 494.4   | 513.9   | 551.0   | 639.0   | 678.0   | 658.5   | 756.2   | 2327.2  | 3271.0  | 1219.3  |
| 77.5° | 386.9   | 402.5   | 435.7   | 521.7   | 560.8   | 467.0   | 435.7   | 832.4   | 1051.3  | 437.7   |
| 80°   | 173.9   | 187.6   | 297.0   | 384.9   | 457.2   | 322.4   | 236.4   | 426.0   | 467.0   | 199.3   |
| 82.5° | 31.3    | 52.8    | 173.9   | 203.2   | 234.5   | 209.1   | 123.1   | 220.8   | 228.6   | 80.1    |
| 85°   | 2.0     | 3.9     | 60.6    | 74.3    | 93.8    | 68.4    | 37.1    | 87.9    | 76.2    | 27.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.0     | 2.0     | 9.8     | 11.7    | 15.6    | 11.7    | 9.8     |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7636.3 | 0°    | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 | 7636.3 |
| 7653.9 | 2.5°  | 7513.2 | 7235.7 | 6966.0 | 6745.2 | 6616.3 | 6397.4 | 6252.8 | 6229.4 | 6168.8 | 6221.6 |
| 7673.4 | 5°    | 7368.6 | 6872.3 | 6370.1 | 5920.6 | 5551.3 | 5074.6 | 4718.9 | 4568.5 | 4437.6 | 4482.5 |
| 7724.2 | 7.5°  | 7300.2 | 6516.6 | 5735.0 | 4967.1 | 4177.7 | 3415.6 | 2848.9 | 2612.5 | 2432.7 | 2458.1 |
| 7780.9 | 10°   | 7208.3 | 6147.3 | 4922.1 | 3749.7 | 2692.6 | 1940.3 | 1549.5 | 1404.9 | 1324.8 | 1326.8 |
| 7864.9 | 12.5° | 7138.0 | 5705.7 | 3978.4 | 2542.2 | 1639.4 | 1238.8 | 1117.7 | 1082.5 | 1059.1 | 1061.0 |
| 7991.9 | 15°   | 7102.8 | 5185.9 | 3046.3 | 1694.1 | 1172.4 | 1049.3 | 1020.0 | 1004.4 | 988.7  | 986.8  |
| 8132.6 | 17.5° | 7044.2 | 4607.6 | 2229.5 | 1236.9 | 1025.9 | 982.9  | 957.5  | 939.9  | 920.3  | 916.4  |
| 8253.7 | 20°   | 6956.3 | 3951.0 | 1629.6 | 1045.4 | 961.4  | 928.2  | 893.0  | 869.5  | 846.1  | 842.2  |
| 8329.9 | 22.5° | 6794.1 | 3257.3 | 1252.5 | 967.2  | 914.5  | 877.4  | 834.4  | 807.0  | 783.6  | 779.6  |
| 8292.8 | 25°   | 6493.2 | 2606.6 | 1055.2 | 918.4  | 873.4  | 828.5  | 781.6  | 744.5  | 723.0  | 719.1  |
| 8212.7 | 27.5° | 6112.1 | 2047.8 | 957.5  | 873.4  | 820.7  | 779.6  | 726.9  | 691.7  | 672.2  | 668.3  |
| 8107.2 | 30°   | 5662.7 | 1576.9 | 900.8  | 822.6  | 758.2  | 723.0  | 676.1  | 646.8  | 635.1  | 635.1  |
| 8032.9 | 32.5° | 5178.1 | 1260.3 | 877.4  | 771.8  | 703.4  | 664.4  | 627.2  | 615.5  | 611.6  | 609.7  |
| 8074.0 | 35°   | 4722.8 | 1094.2 | 865.6  | 730.8  | 654.6  | 617.5  | 601.8  | 603.8  | 611.6  | 611.6  |
| 8201.0 | 37.5° | 4318.4 | 1041.5 | 859.8  | 701.5  | 611.6  | 578.4  | 588.2  | 605.7  | 597.9  | 597.9  |
| 8423.7 | 40°   | 3953.0 | 1047.3 | 855.9  | 680.0  | 576.4  | 556.9  | 576.4  | 562.8  | 543.2  | 541.3  |
| 8695.3 | 42.5° | 3673.5 | 1096.2 | 848.0  | 662.4  | 554.9  | 541.3  | 533.4  | 512.0  | 510.0  | 513.9  |
| 8976.7 | 45°   | 3470.3 | 1139.2 | 846.1  | 654.6  | 531.5  | 506.1  | 496.3  | 474.8  | 513.9  | 523.7  |
| 9092.0 | 47.5° | 3230.0 | 1139.2 | 846.1  | 627.2  | 492.4  | 482.6  | 467.0  | 443.6  | 482.6  | 492.4  |
| 8982.6 | 50°   | 2919.3 | 1066.9 | 812.9  | 596.0  | 461.1  | 455.3  | 427.9  | 398.6  | 390.8  | 396.7  |
| 8726.6 | 52.5° | 2526.5 | 936.0  | 728.8  | 553.0  | 429.9  | 418.2  | 384.9  | 363.4  | 357.6  | 357.6  |
| 8267.4 | 55°   | 2079.1 | 783.6  | 615.5  | 490.5  | 396.7  | 375.2  | 351.7  | 342.0  | 336.1  | 332.2  |
| 7624.5 | 57.5° | 1690.2 | 642.9  | 494.4  | 435.7  | 365.4  | 338.0  | 330.2  | 318.5  | 308.7  | 302.9  |
| 7087.2 | 60°   | 1387.3 | 506.1  | 408.4  | 386.9  | 334.1  | 308.7  | 306.8  | 291.1  | 265.7  | 261.8  |
| 6643.6 | 62.5° | 1070.8 | 371.3  | 343.9  | 336.1  | 302.9  | 281.4  | 277.5  | 246.2  | 207.1  | 199.3  |
| 6014.4 | 65°   | 756.2  | 289.2  | 277.5  | 295.1  | 269.7  | 250.1  | 240.3  | 193.4  | 152.4  | 146.6  |
| 5033.5 | 67.5° | 531.5  | 242.3  | 218.8  | 257.9  | 234.5  | 209.1  | 203.2  | 164.1  | 127.0  | 123.1  |
| 3806.4 | 70°   | 379.1  | 197.4  | 179.8  | 220.8  | 187.6  | 183.7  | 172.0  | 136.8  | 103.6  | 99.7   |
| 1883.7 | 72.5° | 267.7  | 150.5  | 138.7  | 191.5  | 129.0  | 158.3  | 140.7  | 105.5  | 78.2   | 74.3   |
| 640.9  | 75°   | 197.4  | 107.5  | 97.7   | 111.4  | 93.8   | 119.2  | 99.7   | 70.3   | 48.9   | 46.9   |
| 289.2  | 77.5° | 144.6  | 68.4   | 58.6   | 54.7   | 54.7   | 74.3   | 54.7   | 29.3   | 21.5   | 19.5   |
| 146.6  | 80°   | 101.6  | 31.3   | 27.4   | 23.4   | 21.5   | 17.6   | 7.8    | 3.9    | 2.0    | 2.0    |
| 50.8   | 82.5° | 60.6   | 13.7   | 13.7   | 9.8    | 5.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19.5   | 85°   | 13.7   | 5.9    | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.8    | 87.5° | 2.0    | 2.0    | 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

