

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: P947661

Luminaire Tested: **GALN-SB2D-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

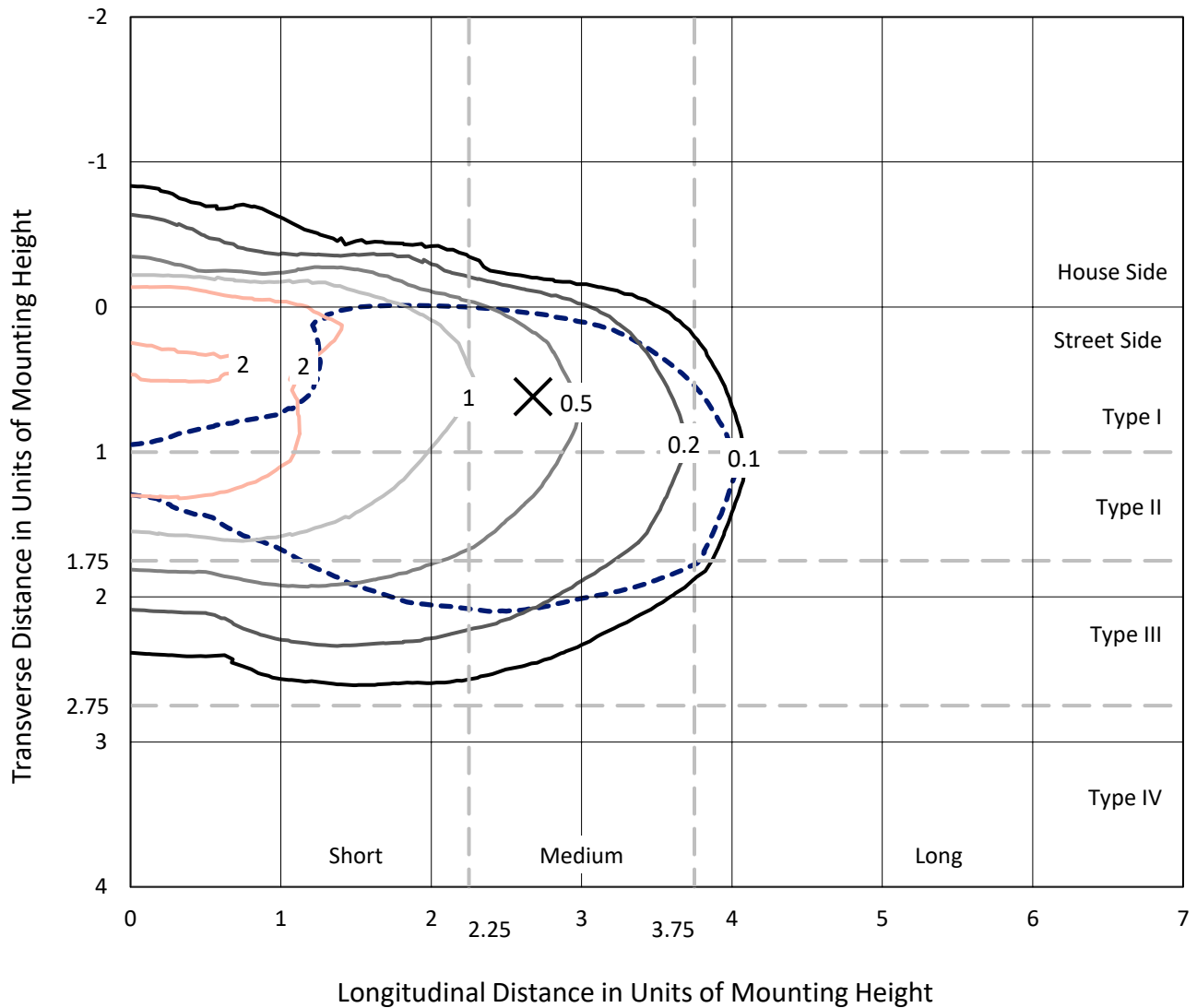
Lumens per Lamp: N/A  
Luminaire Lumens: 12277 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

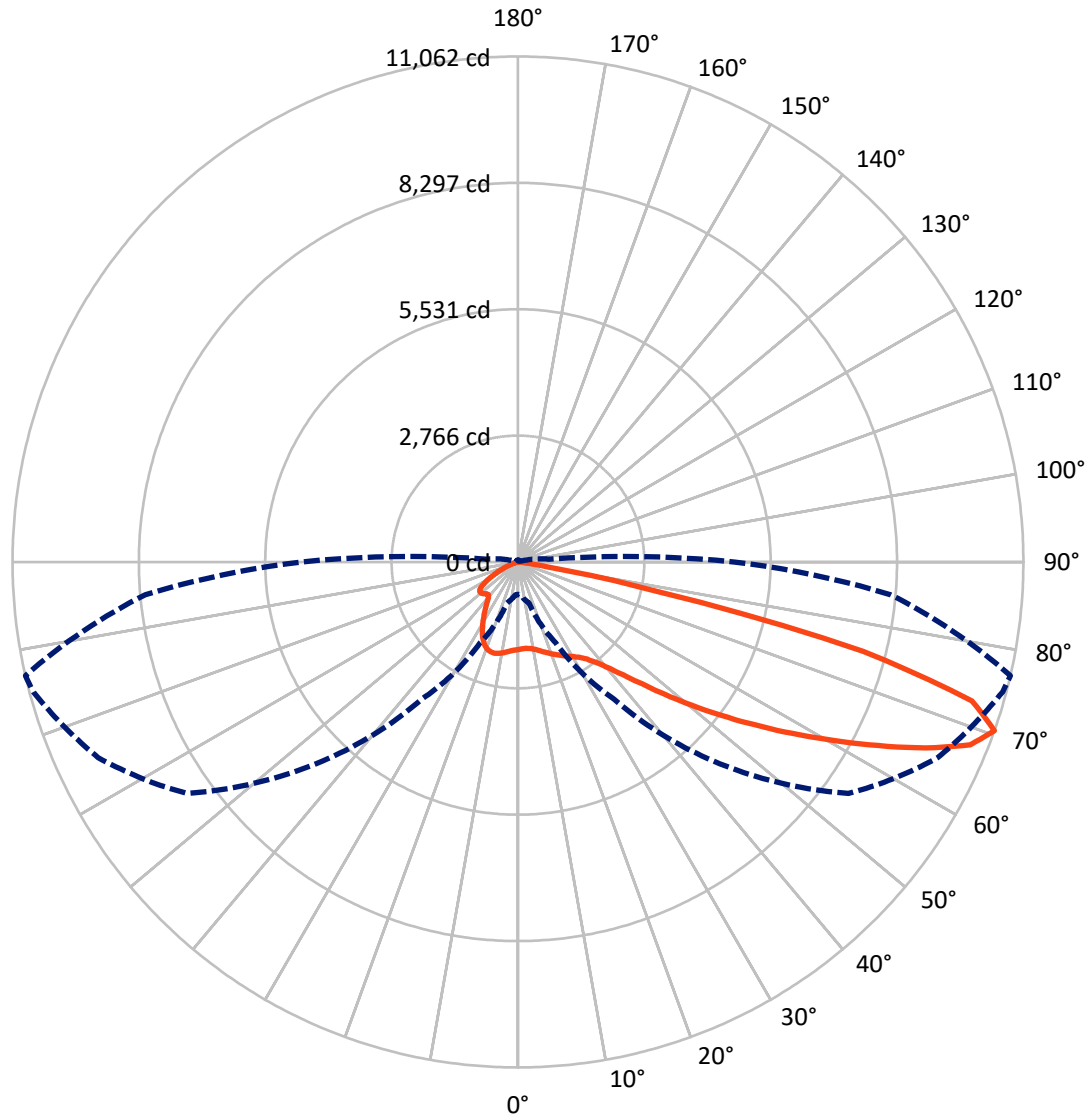
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1294.2   | 0.0    | 1294.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 10982.8  | 0.0    | 10982.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 12277.0  | 0.0    | 12277.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 165.0   | 1.3       |
| 10°-20°   | 391.8   | 3.2       |
| 20°-30°   | 606.0   | 4.9       |
| 30°-40°   | 1099.6  | 9.0       |
| 40°-50°   | 2075.6  | 16.9      |
| 50°-60°   | 2999.1  | 24.4      |
| 60°-70°   | 3192.5  | 26.0      |
| 70°-80°   | 1691.8  | 13.8      |
| 80°-90°   | 55.6    | 0.5       |
| 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°    | 12277.0 | 100.0     |
| 0°-180°   | 12277.0 | 100.0     |

**Coefficient of Utilization**



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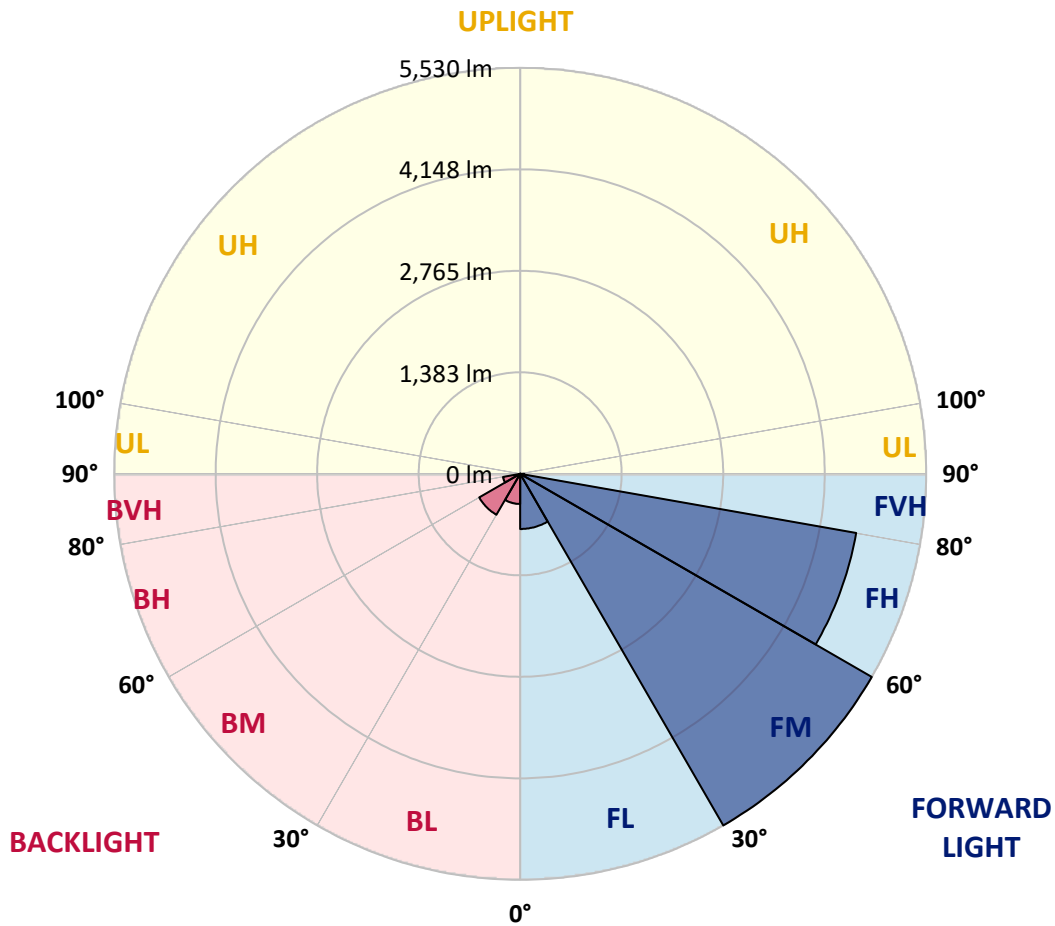
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 751.6  | 6.1       |                         |      |         |
| FM (30°-60°)   | 5530.1 | 45.0      |                         |      |         |
| FH (60°-80°)   | 4647.0 | 37.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 54.1   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 411.2  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 644.2  | 5.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 237.3  | 1.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.5    | 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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0  | 1915.0  | 1915.0  |
| 2.5°  | 1797.9 | 1814.2 | 1811.9 | 1822.7 | 1826.6 | 1842.1 | 1857.6 | 1878.6  | 1901.8  | 1901.0  |
| 5°    | 1696.4 | 1712.6 | 1716.5 | 1731.2 | 1749.9 | 1773.9 | 1805.7 | 1847.5  | 1891.0  | 1897.9  |
| 7.5°  | 1576.2 | 1593.2 | 1603.3 | 1632.8 | 1666.9 | 1716.5 | 1768.5 | 1829.7  | 1901.8  | 1911.9  |
| 10°   | 1456.0 | 1471.5 | 1484.7 | 1526.6 | 1580.8 | 1654.5 | 1739.0 | 1827.4  | 1924.3  | 1939.0  |
| 12.5° | 1381.6 | 1396.3 | 1411.0 | 1447.5 | 1514.9 | 1604.9 | 1719.6 | 1838.2  | 1961.5  | 1982.4  |
| 15°   | 1355.2 | 1368.4 | 1380.0 | 1412.6 | 1475.4 | 1577.7 | 1715.7 | 1860.7  | 2008.8  | 2036.7  |
| 17.5° | 1359.1 | 1366.1 | 1373.8 | 1398.6 | 1459.9 | 1565.3 | 1722.7 | 1899.5  | 2064.6  | 2089.4  |
| 20°   | 1381.6 | 1385.5 | 1386.2 | 1403.3 | 1457.6 | 1563.8 | 1736.7 | 1936.7  | 2117.3  | 2150.7  |
| 22.5° | 1410.3 | 1411.8 | 1410.3 | 1421.9 | 1472.3 | 1575.4 | 1755.3 | 1981.7  | 2176.3  | 2207.3  |
| 25°   | 1544.4 | 1514.9 | 1477.7 | 1455.2 | 1497.1 | 1597.9 | 1783.2 | 2042.1  | 2240.6  | 2270.9  |
| 27.5° | 1960.7 | 1876.2 | 1742.9 | 1593.2 | 1548.3 | 1630.5 | 1822.0 | 2103.4  | 2305.7  | 2332.9  |
| 30°   | 2636.8 | 2525.9 | 2299.5 | 1962.3 | 1712.6 | 1698.7 | 1872.3 | 2164.6  | 2374.7  | 2404.2  |
| 32.5° | 3314.4 | 3287.3 | 3026.0 | 2559.3 | 2082.5 | 1850.6 | 1956.1 | 2247.6  | 2466.2  | 2489.5  |
| 35°   | 3999.8 | 3944.7 | 3730.7 | 3269.4 | 2652.3 | 2160.0 | 2095.6 | 2356.1  | 2586.4  | 2612.8  |
| 37.5° | 4524.6 | 4491.3 | 4358.7 | 3978.8 | 3328.4 | 2637.6 | 2334.4 | 2524.4  | 2760.8  | 2790.3  |
| 40°   | 4988.3 | 4972.8 | 4927.8 | 4677.4 | 4084.3 | 3262.5 | 2705.8 | 2784.9  | 3002.7  | 3037.6  |
| 42.5° | 5352.7 | 5389.1 | 5414.7 | 5344.9 | 4863.5 | 3975.7 | 3205.1 | 3150.8  | 3340.0  | 3375.7  |
| 45°   | 5725.6 | 5738.0 | 5841.1 | 5941.9 | 5637.2 | 4721.6 | 3768.0 | 3579.6  | 3759.4  | 3803.6  |
| 47.5° | 5965.2 | 6014.8 | 6196.2 | 6373.7 | 6287.7 | 5461.2 | 4372.7 | 4085.8  | 4245.5  | 4328.5  |
| 50°   | 5983.0 | 6076.8 | 6326.4 | 6635.8 | 6761.4 | 6165.2 | 5030.1 | 4662.7  | 4832.4  | 4923.9  |
| 52.5° | 5686.0 | 5831.8 | 6218.7 | 6671.5 | 7017.2 | 6761.4 | 5710.1 | 5239.5  | 5457.3  | 5576.7  |
| 55°   | 4359.5 | 4550.2 | 5813.2 | 6477.6 | 7027.3 | 7213.4 | 6372.2 | 5840.3  | 6153.6  | 6288.5  |
| 57.5° | 3798.2 | 3894.3 | 4570.4 | 6141.1 | 6840.5 | 7395.6 | 6970.7 | 6412.5  | 6911.0  | 7078.5  |
| 60°   | 3160.1 | 3286.5 | 3833.1 | 5590.7 | 6586.9 | 7413.4 | 7499.5 | 7150.6  | 7732.1  | 7920.5  |
| 62.5° | 2147.6 | 2284.8 | 2828.3 | 4644.8 | 6240.4 | 7404.9 | 7932.9 | 7910.4  | 8644.6  | 8846.9  |
| 65°   | 1330.4 | 1416.5 | 1774.7 | 3792.8 | 5755.8 | 7414.2 | 8386.4 | 8833.0  | 9607.5  | 9813.0  |
| 67.5° | 1051.3 | 1090.8 | 1277.7 | 2912.0 | 4920.8 | 7204.9 | 8839.2 | 9700.5  | 10513.8 | 10676.7 |
| 70°   | 706.3  | 730.3  | 929.6  | 1952.2 | 3661.0 | 6238.8 | 8830.7 | 10136.3 | 10980.6 | 11062.0 |
| 72.5° | 372.1  | 390.8  | 543.5  | 904.0  | 2211.2 | 4434.7 | 7443.7 | 9615.3  | 10516.2 | 10393.7 |
| 75°   | 186.1  | 217.1  | 365.9  | 459.0  | 944.3  | 2473.2 | 4622.3 | 7580.9  | 8277.1  | 7802.6  |
| 77.5° | 141.1  | 170.6  | 302.4  | 302.4  | 328.7  | 832.7  | 1957.6 | 4134.7  | 3813.7  | 3175.6  |
| 80°   | 89.9   | 116.3  | 264.4  | 228.7  | 137.2  | 211.7  | 510.1  | 1158.3  | 810.2   | 616.4   |
| 82.5° | 52.7   | 76.0   | 220.2  | 151.2  | 76.8   | 78.3   | 144.2  | 246.5   | 210.1   | 163.6   |
| 85°   | 20.9   | 49.6   | 151.2  | 59.7   | 30.2   | 19.4   | 43.4   | 52.7    | 43.4    | 32.6    |
| 87.5° | 0.0    | 11.6   | 26.4   | 0.0    | 2.3    | 1.6    | 3.1    | 3.9     | 3.9     | 3.1     |
| 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):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1915.0 | 0°    | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 | 1915.0 |
| 1916.5 | 2.5°  | 1923.5 | 1925.1 | 1929.7 | 1930.5 | 1919.6 | 1905.7 | 1900.3 | 1897.9 | 1888.6 | 1887.9 |
| 1928.9 | 5°    | 1946.8 | 1953.8 | 1946.8 | 1926.6 | 1878.6 | 1811.1 | 1759.9 | 1718.1 | 1680.1 | 1668.4 |
| 1971.6 | 7.5°  | 1993.3 | 2000.3 | 1979.3 | 1900.3 | 1779.3 | 1645.2 | 1524.2 | 1439.0 | 1362.2 | 1333.5 |
| 2023.5 | 10°   | 2060.0 | 2069.3 | 2003.4 | 1843.7 | 1629.7 | 1414.1 | 1209.5 | 1065.3 | 952.8  | 907.1  |
| 2094.1 | 12.5° | 2143.7 | 2147.6 | 2016.6 | 1757.6 | 1435.1 | 1127.3 | 837.3  | 683.0  | 583.0  | 545.8  |
| 2179.4 | 15°   | 2236.0 | 2230.5 | 2018.1 | 1640.5 | 1169.9 | 797.0  | 546.6  | 448.9  | 408.6  | 396.2  |
| 2264.7 | 17.5° | 2332.9 | 2310.4 | 1987.1 | 1471.5 | 879.2  | 545.0  | 405.5  | 382.2  | 375.2  | 372.1  |
| 2349.2 | 20°   | 2428.2 | 2377.8 | 1930.5 | 1250.6 | 631.1  | 407.0  | 368.3  | 361.3  | 357.4  | 355.9  |
| 2434.4 | 22.5° | 2515.1 | 2429.0 | 1833.6 | 993.9  | 458.2  | 359.7  | 348.1  | 341.9  | 334.9  | 331.8  |
| 2517.4 | 25°   | 2599.6 | 2458.5 | 1697.1 | 754.4  | 366.7  | 336.5  | 327.2  | 315.5  | 306.2  | 302.4  |
| 2606.6 | 27.5° | 2681.8 | 2477.1 | 1526.6 | 558.2  | 327.2  | 314.8  | 297.7  | 281.4  | 274.5  | 272.9  |
| 2701.9 | 30°   | 2769.4 | 2483.3 | 1332.7 | 416.3  | 303.1  | 287.6  | 262.8  | 244.2  | 240.3  | 241.1  |
| 2830.6 | 32.5° | 2876.4 | 2492.6 | 1137.4 | 341.1  | 283.0  | 255.1  | 225.6  | 206.2  | 203.1  | 206.2  |
| 3018.2 | 35°   | 3004.3 | 2511.2 | 949.0  | 314.0  | 265.2  | 221.7  | 189.9  | 173.7  | 170.6  | 172.9  |
| 3258.6 | 37.5° | 3178.0 | 2541.4 | 773.0  | 308.6  | 250.4  | 193.8  | 159.7  | 146.5  | 146.5  | 147.3  |
| 3553.2 | 40°   | 3409.0 | 2622.1 | 615.6  | 304.7  | 242.7  | 172.9  | 134.9  | 129.5  | 131.8  | 133.4  |
| 3928.4 | 42.5° | 3690.4 | 2793.4 | 509.4  | 300.0  | 234.1  | 163.6  | 122.5  | 120.2  | 124.0  | 125.6  |
| 4378.1 | 45°   | 4006.0 | 3010.5 | 472.2  | 292.3  | 226.4  | 169.8  | 117.1  | 114.0  | 118.6  | 119.4  |
| 4882.1 | 47.5° | 4332.4 | 3222.9 | 467.5  | 283.8  | 218.6  | 179.1  | 115.5  | 108.5  | 114.0  | 114.7  |
| 5420.1 | 50°   | 4662.7 | 3361.7 | 472.2  | 270.6  | 206.2  | 179.1  | 116.3  | 103.1  | 107.8  | 110.1  |
| 5978.3 | 52.5° | 4995.3 | 3425.3 | 469.1  | 241.9  | 184.5  | 168.2  | 116.3  | 98.5   | 103.1  | 104.7  |
| 6581.5 | 55°   | 5317.8 | 3412.9 | 421.8  | 199.3  | 156.6  | 148.9  | 113.2  | 94.6   | 97.7   | 98.5   |
| 7151.4 | 57.5° | 5572.9 | 3240.0 | 334.2  | 155.1  | 127.1  | 124.0  | 103.1  | 89.9   | 92.3   | 91.5   |
| 7673.9 | 60°   | 5706.2 | 2860.1 | 238.8  | 119.4  | 100.0  | 97.7   | 90.7   | 83.7   | 85.3   | 81.4   |
| 8116.6 | 62.5° | 5707.8 | 2357.7 | 159.7  | 94.6   | 79.9   | 77.5   | 77.5   | 75.2   | 73.7   | 65.9   |
| 8459.3 | 65°   | 5586.0 | 1800.2 | 106.2  | 75.2   | 64.3   | 60.5   | 65.1   | 64.3   | 58.9   | 48.1   |
| 8564.0 | 67.5° | 5310.0 | 1180.0 | 80.6   | 58.9   | 49.6   | 47.3   | 51.9   | 54.3   | 50.4   | 40.3   |
| 8182.5 | 70°   | 4742.5 | 686.9  | 66.7   | 45.7   | 37.2   | 34.9   | 41.9   | 46.5   | 41.9   | 32.6   |
| 6994.0 | 72.5° | 3939.3 | 370.6  | 54.3   | 34.1   | 25.6   | 23.3   | 33.3   | 38.0   | 33.3   | 24.0   |
| 4487.4 | 75°   | 2556.2 | 198.5  | 41.9   | 22.5   | 13.2   | 14.7   | 24.8   | 27.9   | 23.3   | 15.5   |
| 1317.2 | 77.5° | 858.3  | 87.6   | 26.4   | 10.9   | 6.2    | 6.2    | 14.7   | 17.1   | 10.9   | 5.4    |
| 239.6  | 80°   | 191.5  | 36.4   | 10.9   | 4.7    | 2.3    | 2.3    | 3.1    | 3.1    | 1.6    | 0.0    |
| 73.7   | 82.5° | 62.8   | 14.7   | 4.7    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18.6   | 85°   | 24.0   | 5.4    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6.2    | 87.5° | 9.3    | 0.8    | 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    |

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| <u>180°</u> |
|-------------|
| 1915.0      |
| 1889.4      |
| 1661.5      |
| 1321.9      |
| 887.7       |
| 534.2       |
| 396.2       |
| 371.4       |
| 354.3       |
| 331.1       |
| 300.8       |
| 271.4       |
| 241.1       |
| 205.5       |
| 172.1       |
| 146.5       |
| 133.4       |
| 125.6       |
| 120.2       |
| 115.5       |
| 110.9       |
| 104.7       |
| 98.5        |
| 91.5        |
| 80.6        |
| 63.6        |
| 46.5        |
| 39.5        |
| <i>31.0</i> |
| 23.3        |
| 14.0        |
| 4.7         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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