

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: P944922

Luminaire Tested: **GALN-SB1A-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

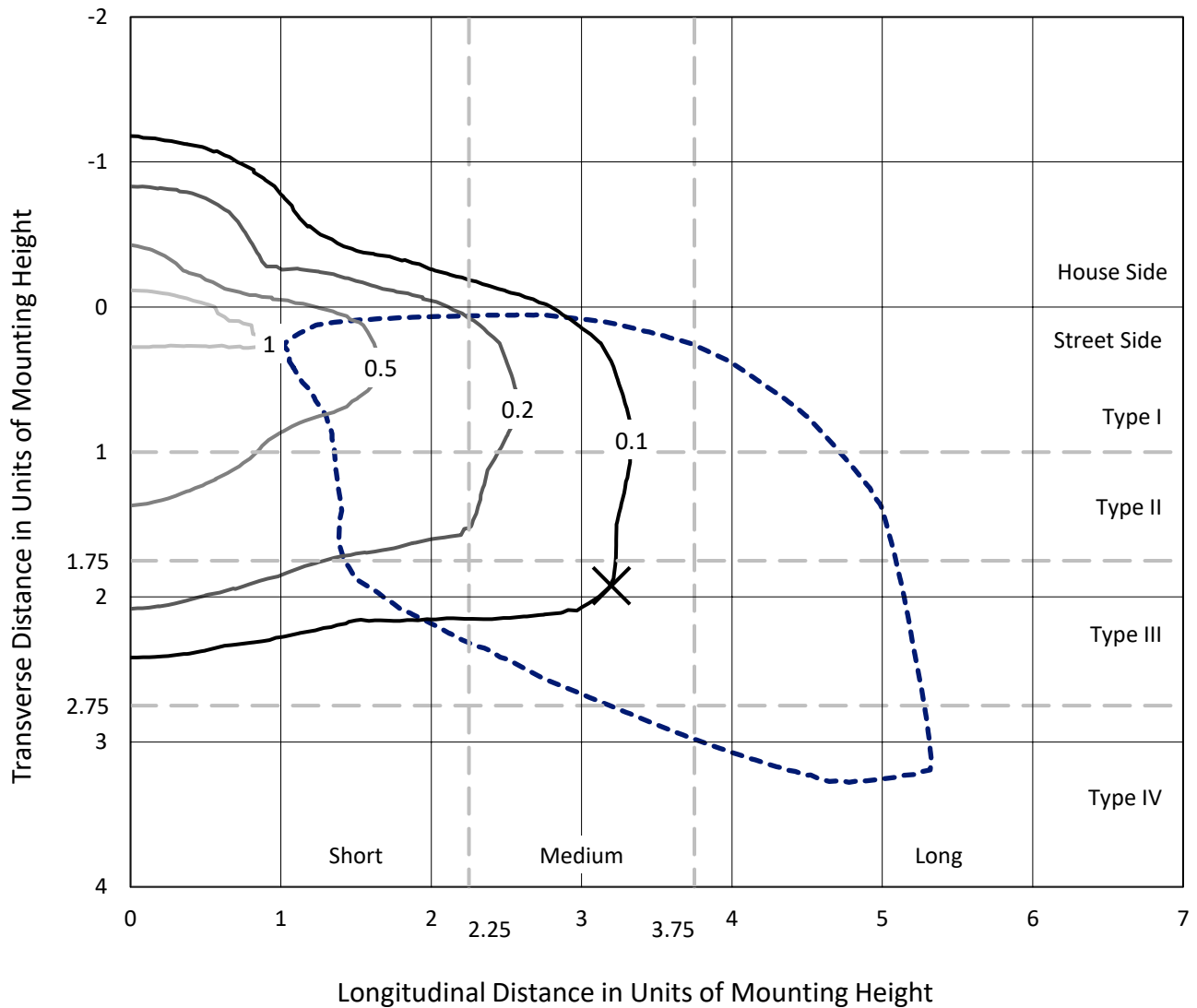
Lumens per Lamp: N/A  
Luminaire Lumens: 4640 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

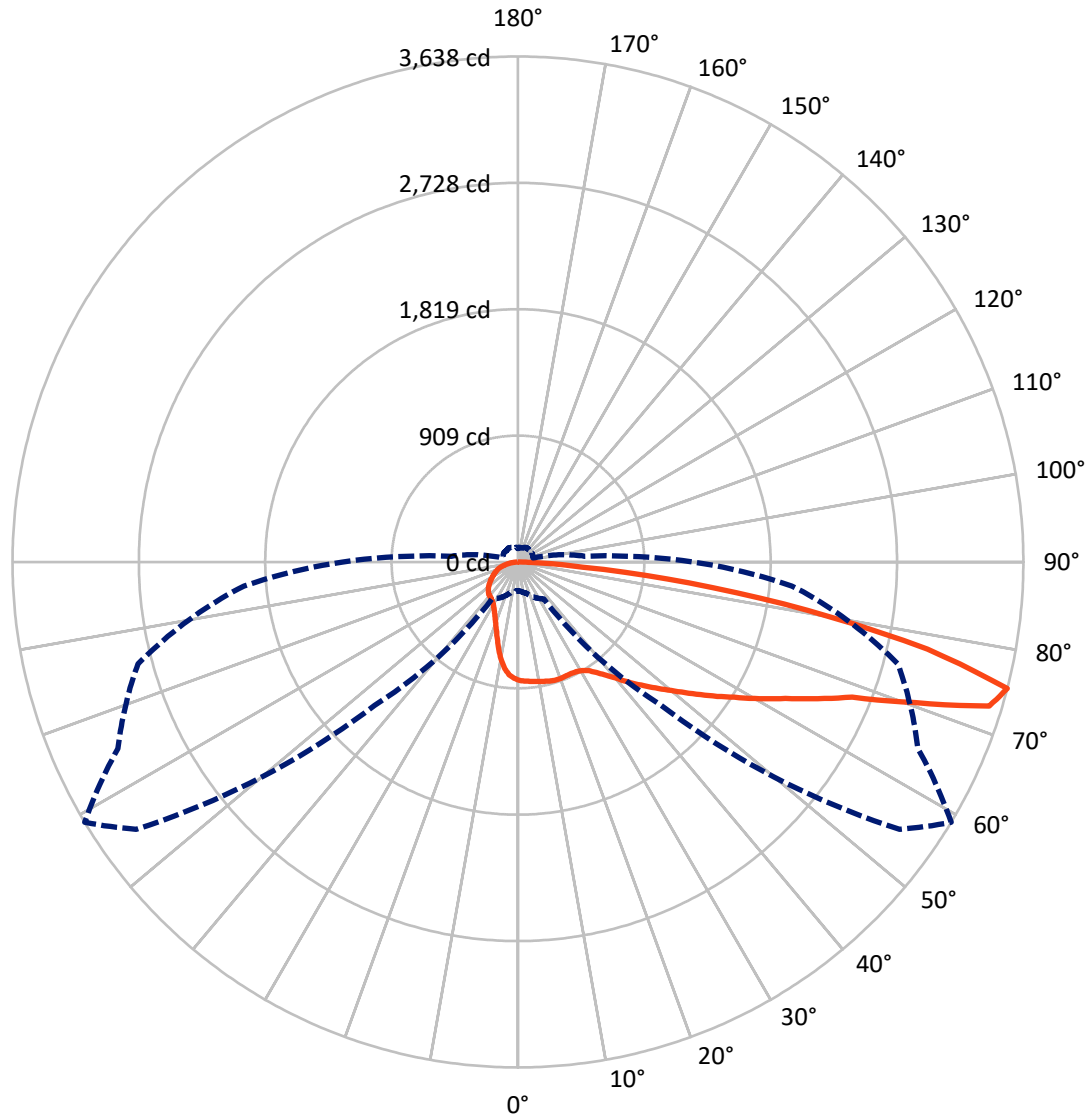
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 870.3    | 0.0    | 870.3  |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 3769.7   | 0.0    | 3769.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 4640.0   | 0.0    | 4640.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.4   | 1.6       |
| 10°-20°   | 195.2  | 4.2       |
| 20°-30°   | 296.5  | 6.4       |
| 30°-40°   | 440.7  | 9.5       |
| 40°-50°   | 655.4  | 14.1      |
| 50°-60°   | 889.7  | 19.2      |
| 60°-70°   | 1086.1 | 23.4      |
| 70°-80°   | 852.4  | 18.4      |
| 80°-90°   | 147.7  | 3.2       |
| 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°    | 4640.0 | 100.0     |
| 0°-180°   | 4640.0 | 100.0     |

**Coefficient of Utilization**



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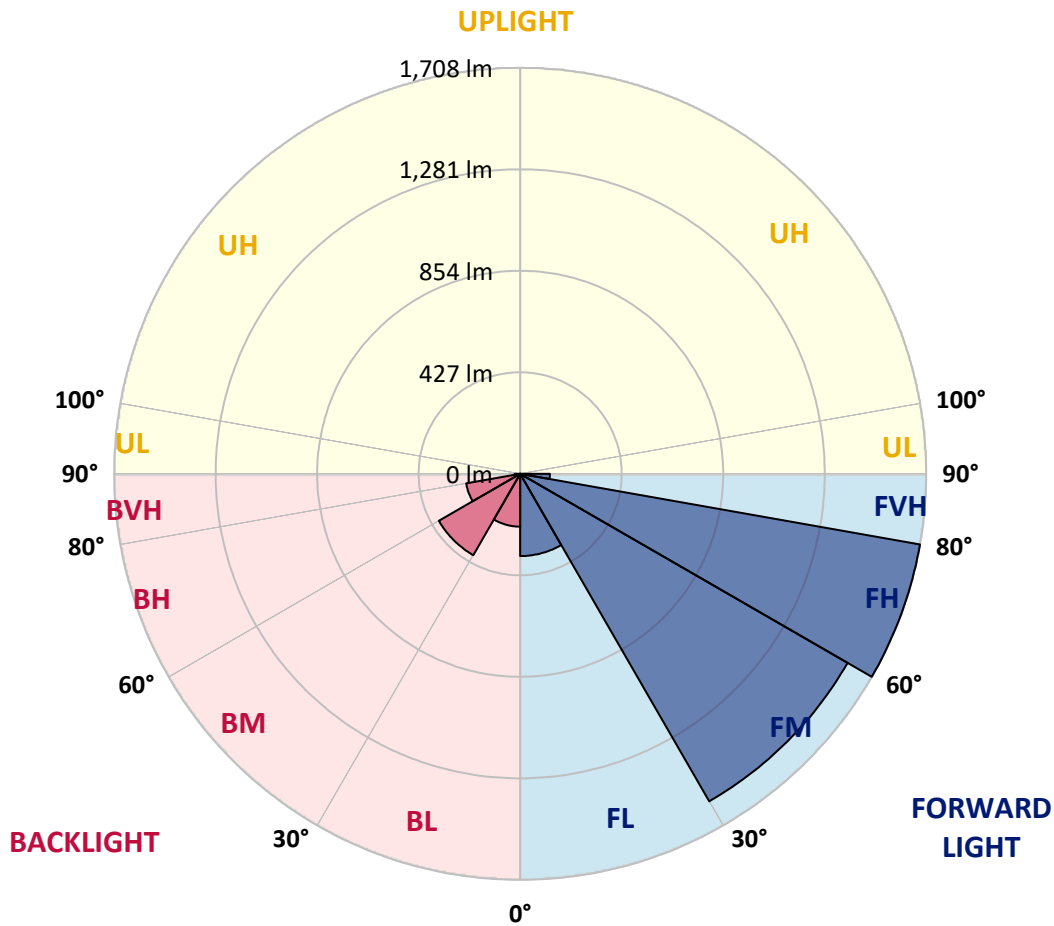
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 346.0  | 7.5       |                         |      |         |
| FM (30°-60°)   | 1590.8 | 34.3      |                         |      |         |
| FH (60°-80°)   | 1707.9 | 36.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 125.1  | 2.7       |                         |      | G2/225  |
| BL (0°-30°)    | 222.1  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 395.0  | 8.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 230.6  | 5.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 22.6   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  | 851.7  |
| 2.5°  | 858.9  | 855.9  | 858.9  | 857.7  | 857.2  | 856.2  | 856.4  | 858.2  | 857.2  | 858.4  |
| 5°    | 853.2  | 851.4  | 854.4  | 853.7  | 856.9  | 857.4  | 860.6  | 862.6  | 863.9  | 864.1  |
| 7.5°  | 843.7  | 841.9  | 846.2  | 849.7  | 856.7  | 858.7  | 865.4  | 868.6  | 870.4  | 873.4  |
| 10°   | 809.0  | 808.2  | 818.7  | 831.9  | 848.4  | 858.7  | 868.9  | 874.4  | 877.1  | 885.1  |
| 12.5° | 747.6  | 748.6  | 762.3  | 787.8  | 820.7  | 853.7  | 872.9  | 880.9  | 885.1  | 895.1  |
| 15°   | 688.9  | 688.7  | 703.6  | 730.9  | 777.0  | 831.7  | 874.9  | 888.6  | 895.8  | 910.6  |
| 17.5° | 655.0  | 654.0  | 664.5  | 685.2  | 728.1  | 798.0  | 869.9  | 892.8  | 908.3  | 926.8  |
| 20°   | 648.7  | 646.7  | 652.2  | 662.5  | 692.9  | 761.1  | 856.9  | 892.8  | 918.3  | 942.3  |
| 22.5° | 671.4  | 668.2  | 666.0  | 664.7  | 678.2  | 730.6  | 842.2  | 889.9  | 933.0  | 964.5  |
| 25°   | 717.1  | 712.1  | 700.6  | 689.4  | 685.4  | 716.9  | 829.2  | 889.1  | 955.0  | 994.4  |
| 27.5° | 791.0  | 784.8  | 761.6  | 734.6  | 710.4  | 723.9  | 823.5  | 893.6  | 979.2  | 1026.1 |
| 30°   | 882.6  | 875.9  | 846.7  | 805.2  | 761.8  | 749.8  | 830.7  | 906.8  | 1010.2 | 1068.3 |
| 32.5° | 964.7  | 957.2  | 932.3  | 890.1  | 831.4  | 794.8  | 853.7  | 932.0  | 1058.8 | 1127.0 |
| 35°   | 1037.6 | 1028.9 | 1006.4 | 967.5  | 916.8  | 857.9  | 895.1  | 976.7  | 1128.0 | 1222.3 |
| 37.5° | 1109.0 | 1098.8 | 1074.3 | 1033.1 | 997.7  | 942.0  | 952.3  | 1034.1 | 1219.8 | 1338.1 |
| 40°   | 1188.9 | 1174.2 | 1144.5 | 1103.8 | 1069.3 | 1040.6 | 1027.4 | 1104.5 | 1313.2 | 1467.4 |
| 42.5° | 1266.3 | 1252.3 | 1216.8 | 1182.1 | 1139.0 | 1130.7 | 1114.5 | 1186.9 | 1415.3 | 1609.5 |
| 45°   | 1349.6 | 1332.9 | 1290.0 | 1246.0 | 1218.8 | 1190.6 | 1198.9 | 1269.3 | 1515.4 | 1754.2 |
| 47.5° | 1427.8 | 1409.0 | 1358.4 | 1309.4 | 1294.5 | 1241.0 | 1276.2 | 1359.9 | 1619.5 | 1901.0 |
| 50°   | 1469.9 | 1451.5 | 1409.3 | 1365.1 | 1353.4 | 1303.2 | 1360.1 | 1459.5 | 1728.5 | 2047.3 |
| 52.5° | 1505.1 | 1485.2 | 1430.0 | 1405.5 | 1402.0 | 1370.8 | 1463.5 | 1573.3 | 1837.6 | 2176.6 |
| 55°   | 1542.6 | 1520.4 | 1450.0 | 1428.0 | 1444.0 | 1446.7 | 1586.0 | 1702.3 | 1952.9 | 2302.6 |
| 57.5° | 1585.8 | 1557.6 | 1469.2 | 1447.0 | 1484.9 | 1535.6 | 1726.8 | 1836.1 | 2066.3 | 2419.4 |
| 60°   | 1626.4 | 1598.0 | 1506.1 | 1477.2 | 1529.1 | 1638.7 | 1888.3 | 1998.1 | 2194.6 | 2523.5 |
| 62.5° | 1634.4 | 1611.0 | 1535.6 | 1535.3 | 1589.0 | 1759.0 | 2079.5 | 2161.6 | 2306.6 | 2626.4 |
| 65°   | 1496.1 | 1481.4 | 1436.7 | 1533.1 | 1674.9 | 1932.2 | 2292.4 | 2370.8 | 2449.2 | 2716.2 |
| 67.5° | 1138.7 | 1140.7 | 1137.5 | 1323.4 | 1605.5 | 2181.1 | 2600.7 | 2594.7 | 2625.1 | 2817.1 |
| 70°   | 520.7  | 532.4  | 608.8  | 913.6  | 1286.2 | 2209.8 | 3110.4 | 3032.7 | 2846.0 | 2947.6 |
| 72.5° | 281.3  | 290.3  | 321.5  | 442.6  | 773.3  | 1964.7 | 3491.3 | 3546.4 | 3139.8 | 3035.5 |
| 75°   | 206.4  | 211.4  | 233.1  | 281.3  | 324.7  | 1460.2 | 3354.7 | 3637.8 | 3176.5 | 2830.6 |
| 77.5° | 154.5  | 156.8  | 174.5  | 222.9  | 166.2  | 769.8  | 2680.5 | 3012.8 | 2719.2 | 2325.6 |
| 80°   | 112.1  | 114.6  | 127.8  | 167.2  | 116.6  | 281.6  | 1840.6 | 2114.7 | 1862.3 | 1482.4 |
| 82.5° | 77.4   | 78.4   | 84.1   | 113.8  | 81.4   | 109.3  | 1044.4 | 1240.1 | 1039.6 | 520.2  |
| 85°   | 46.7   | 47.9   | 50.4   | 66.4   | 46.2   | 51.9   | 450.8  | 466.3  | 310.8  | 124.3  |
| 87.5° | 19.2   | 20.5   | 22.5   | 28.0   | 18.2   | 14.5   | 74.4   | 93.4   | 58.2   | 36.4   |
| 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°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 851.7  | 0°    | 851.7  | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 |
| 854.2  | 2.5°  | 852.9  | 851.2 | 846.4 | 839.9 | 833.9 | 826.5 | 823.2 | 820.5 | 818.0 | 813.2 |
| 860.9  | 5°    | 858.2  | 853.4 | 840.7 | 824.2 | 805.5 | 785.0 | 765.0 | 751.3 | 739.6 | 730.9 |
| 868.6  | 7.5°  | 866.1  | 857.2 | 833.9 | 800.2 | 757.3 | 713.4 | 673.7 | 645.5 | 624.3 | 616.5 |
| 879.6  | 10°   | 874.4  | 863.6 | 823.2 | 763.8 | 689.7 | 622.0 | 569.4 | 540.4 | 523.4 | 517.9 |
| 892.6  | 12.5° | 884.1  | 868.4 | 806.5 | 713.1 | 614.0 | 539.9 | 494.0 | 477.0 | 468.3 | 465.3 |
| 908.6  | 15°   | 898.3  | 872.4 | 781.3 | 649.7 | 541.9 | 480.0 | 450.3 | 438.6 | 434.1 | 433.8 |
| 925.0  | 17.5° | 909.1  | 873.1 | 742.1 | 581.8 | 486.5 | 443.8 | 419.3 | 414.8 | 417.8 | 422.3 |
| 941.3  | 20°   | 921.1  | 866.4 | 690.7 | 519.9 | 447.5 | 412.1 | 401.9 | 404.9 | 412.1 | 418.6 |
| 962.7  | 22.5° | 929.5  | 854.2 | 628.5 | 471.8 | 413.8 | 393.9 | 393.4 | 399.6 | 403.6 | 406.9 |
| 987.9  | 25°   | 937.0  | 833.4 | 562.6 | 431.3 | 386.1 | 382.9 | 388.4 | 386.4 | 383.6 | 386.4 |
| 1013.2 | 27.5° | 942.5  | 800.7 | 503.7 | 395.9 | 366.7 | 375.4 | 372.2 | 367.7 | 367.4 | 368.9 |
| 1042.9 | 30°   | 940.8  | 757.1 | 455.3 | 362.2 | 352.9 | 361.4 | 353.7 | 352.9 | 352.2 | 352.9 |
| 1087.5 | 32.5° | 940.8  | 707.4 | 418.1 | 339.0 | 344.2 | 341.0 | 340.2 | 338.5 | 335.5 | 335.2 |
| 1148.2 | 35°   | 946.0  | 657.7 | 386.1 | 326.5 | 337.0 | 329.2 | 329.7 | 325.5 | 319.2 | 316.3 |
| 1228.6 | 37.5° | 956.7  | 617.8 | 354.4 | 320.5 | 324.2 | 324.0 | 322.0 | 314.8 | 303.8 | 294.3 |
| 1328.9 | 40°   | 982.7  | 606.0 | 332.7 | 317.8 | 318.2 | 321.2 | 316.0 | 302.0 | 277.1 | 261.6 |
| 1430.8 | 42.5° | 1023.4 | 625.8 | 328.0 | 311.0 | 314.3 | 317.3 | 307.0 | 274.6 | 256.8 | 247.6 |
| 1537.6 | 45°   | 1075.1 | 660.2 | 338.2 | 301.3 | 304.8 | 310.0 | 279.6 | 264.1 | 256.1 | 256.3 |
| 1643.4 | 47.5° | 1140.5 | 696.4 | 357.2 | 292.8 | 291.0 | 294.0 | 261.3 | 251.9 | 240.9 | 243.6 |
| 1745.0 | 50°   | 1216.1 | 733.1 | 375.2 | 281.3 | 275.8 | 266.1 | 249.6 | 240.6 | 226.6 | 220.2 |
| 1843.1 | 52.5° | 1298.0 | 768.5 | 382.4 | 267.3 | 259.3 | 248.1 | 241.6 | 230.6 | 213.7 | 202.9 |
| 1935.7 | 55°   | 1375.6 | 800.7 | 374.4 | 250.6 | 242.9 | 234.1 | 233.1 | 226.4 | 208.2 | 193.2 |
| 2018.1 | 57.5° | 1449.0 | 827.7 | 354.4 | 233.6 | 226.1 | 220.9 | 227.6 | 224.4 | 201.4 | 182.2 |
| 2096.0 | 60°   | 1511.1 | 846.2 | 325.5 | 216.4 | 211.2 | 208.4 | 218.7 | 217.7 | 191.9 | 170.5 |
| 2165.8 | 62.5° | 1560.5 | 853.4 | 293.5 | 199.9 | 198.7 | 193.7 | 206.2 | 206.2 | 180.0 | 159.0 |
| 2227.2 | 65°   | 1599.2 | 846.4 | 261.1 | 183.7 | 186.2 | 178.7 | 190.9 | 189.5 | 167.2 | 148.8 |
| 2297.9 | 67.5° | 1633.4 | 823.5 | 225.1 | 167.7 | 173.5 | 164.0 | 175.0 | 171.5 | 153.3 | 138.5 |
| 2359.0 | 70°   | 1648.7 | 770.0 | 184.2 | 151.8 | 158.8 | 149.5 | 159.0 | 152.5 | 137.5 | 127.5 |
| 2291.9 | 72.5° | 1526.4 | 640.0 | 145.0 | 135.0 | 141.0 | 133.5 | 141.8 | 134.3 | 120.6 | 116.1 |
| 1979.1 | 75°   | 1262.8 | 480.2 | 111.6 | 116.8 | 121.3 | 115.6 | 121.1 | 115.6 | 103.1 | 106.3 |
| 1462.0 | 77.5° | 917.1  | 324.2 | 85.4  | 97.6  | 99.6  | 96.6  | 101.3 | 95.1  | 83.9  | 83.1  |
| 728.6  | 80°   | 456.0  | 190.0 | 66.9  | 77.1  | 76.4  | 74.4  | 79.9  | 76.9  | 67.4  | 71.4  |
| 196.7  | 82.5° | 132.0  | 81.4  | 48.7  | 54.2  | 52.7  | 53.2  | 57.2  | 58.7  | 87.9  | 87.1  |
| 61.2   | 85°   | 41.4   | 31.9  | 29.2  | 30.2  | 28.7  | 29.5  | 33.7  | 66.9  | 61.9  | 36.2  |
| 19.0   | 87.5° | 10.7   | 11.0  | 7.2   | 7.7   | 8.0   | 9.5   | 10.7  | 40.7  | 19.5  | 12.7  |
| 0.0    | 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END O

| <u>180°</u> |
|-------------|
| 851.7       |
| 811.0       |
| 723.6       |
| 603.1       |
| 509.4       |
| 466.0       |
| 434.8       |
| 424.1       |
| 420.8       |
| 408.6       |
| 388.1       |
| 371.4       |
| 355.7       |
| 338.5       |
| 319.2       |
| 297.5       |
| 263.6       |
| 247.6       |
| 257.6       |
| 250.6       |
| 221.9       |
| 202.7       |
| 193.2       |
| 181.2       |
| 169.7       |
| 158.3       |
| 147.8       |
| 137.5       |
| 125.6       |
| 112.3       |
| 97.1        |
| 79.4        |
| 70.6        |
| 89.1        |
| 39.2        |
| 13.5        |
| 0.0         |

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