

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: P939091

Luminaire Tested: **GALN-SB1C-740-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

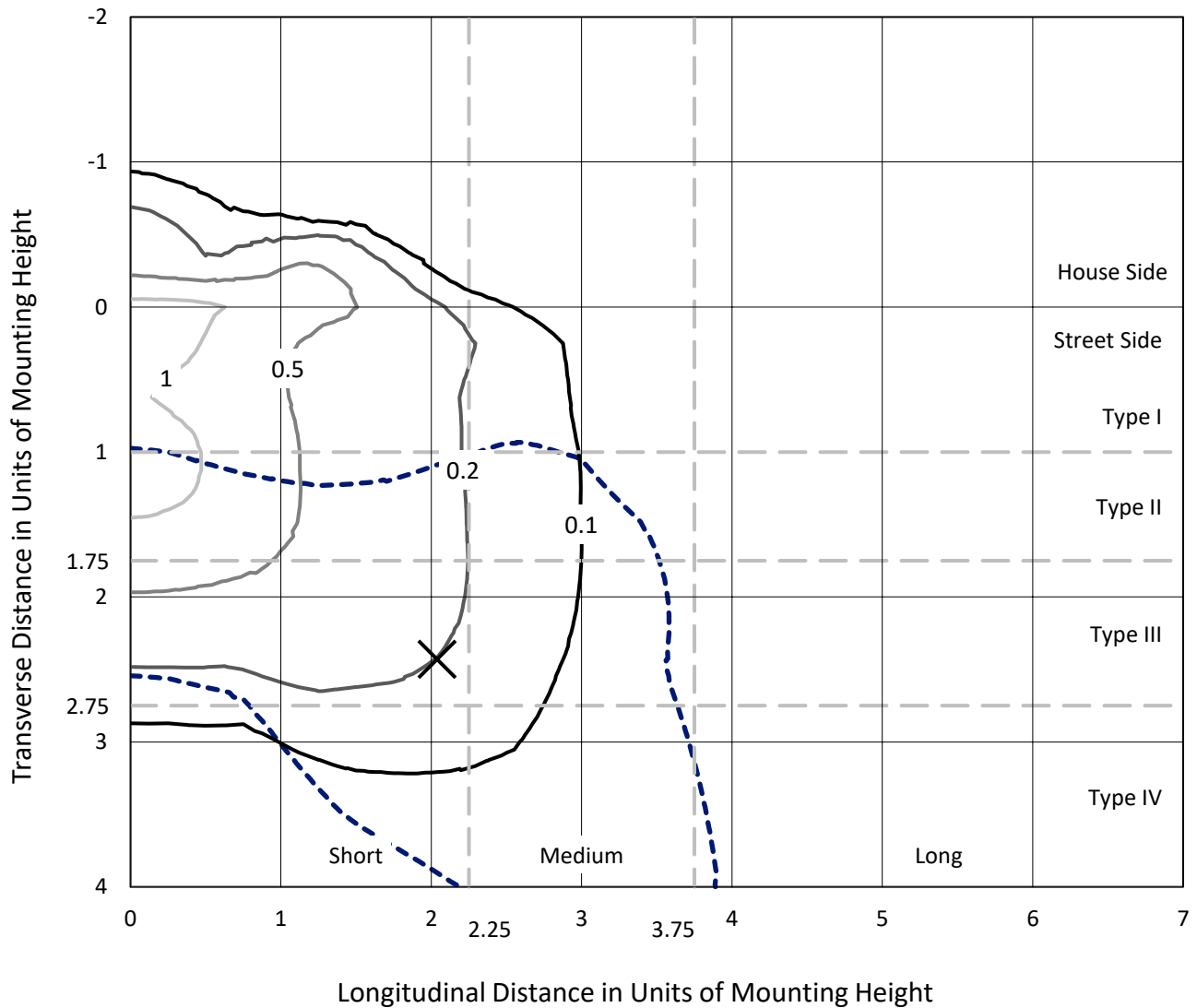
Lumens per Lamp: N/A  
Luminaire Lumens: 5533 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

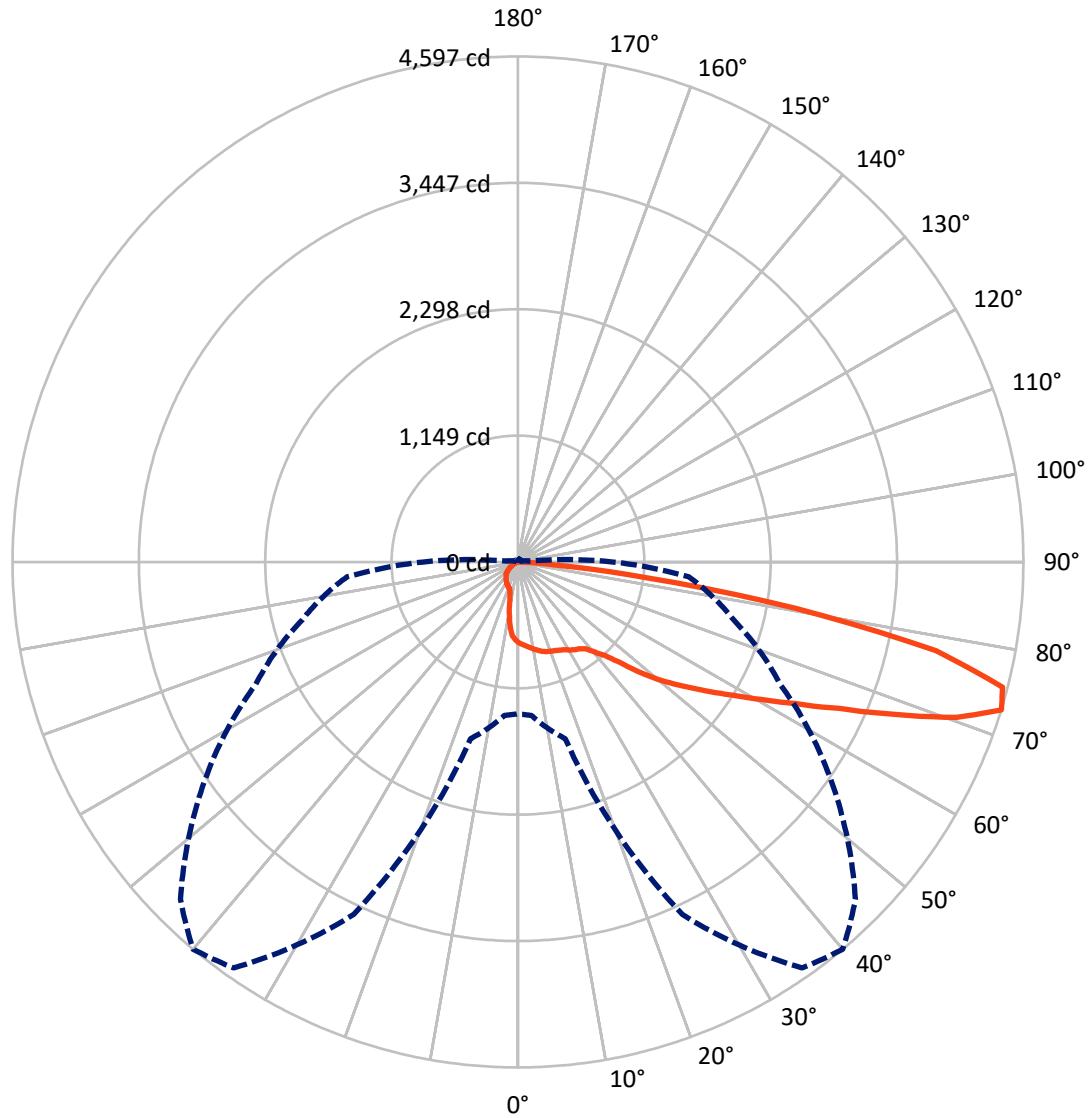
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 714.5    | 0.0    | 714.5  |
|                    | % Fixture | 12.9     | 0.0    | 12.9   |
| <b>Street Side</b> | Lumens    | 4818.5   | 0.0    | 4818.5 |
|                    | % Fixture | 87.1     | 0.0    | 87.1   |
| <b>Total</b>       | Lumens    | 5533.0   | 0.0    | 5533.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.9   | 1.2       |
| 10°-20°   | 181.7  | 3.3       |
| 20°-30°   | 294.0  | 5.3       |
| 30°-40°   | 434.1  | 7.8       |
| 40°-50°   | 730.5  | 13.2      |
| 50°-60°   | 1134.3 | 20.5      |
| 60°-70°   | 1419.3 | 25.7      |
| 70°-80°   | 1162.0 | 21.0      |
| 80°-90°   | 110.2  | 2.0       |
| 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°    | 5533.0 | 100.0     |
| 0°-180°   | 5533.0 | 100.0     |

**Coefficient of Utilization**



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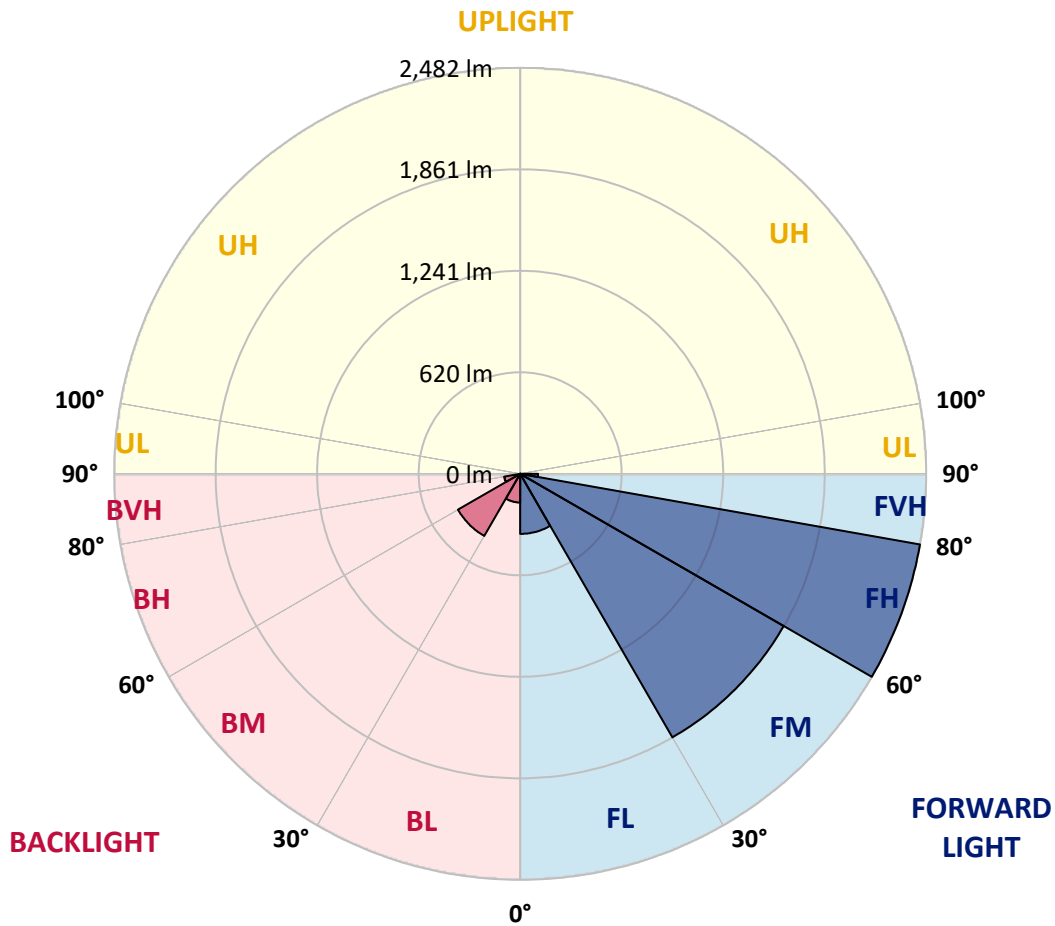
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 367.2  | 6.6       |                         |      |         |
| FM (30°-60°)   | 1860.1 | 33.6      |                         |      |         |
| FH (60°-80°)   | 2481.8 | 44.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 109.3  | 2.0       |                         |      | G2/225  |
| BL (0°-30°)    | 175.4  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 438.8  | 7.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 99.5   | 1.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.8    | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  | 732.6  |
| 2.5°  | 754.7  | 757.6  | 756.0  | 752.6  | 751.8  | 750.1  | 748.0  | 747.2  | 744.3  | 741.8  |
| 5°    | 776.0  | 778.9  | 776.8  | 772.2  | 770.1  | 768.0  | 765.1  | 762.6  | 756.8  | 751.4  |
| 7.5°  | 799.3  | 801.8  | 799.3  | 792.6  | 789.3  | 786.8  | 782.6  | 778.9  | 772.2  | 764.3  |
| 10°   | 825.1  | 827.2  | 823.5  | 814.7  | 809.3  | 805.5  | 801.8  | 797.6  | 791.4  | 782.6  |
| 12.5° | 849.3  | 851.8  | 846.0  | 835.5  | 829.3  | 825.5  | 821.4  | 818.0  | 811.8  | 803.5  |
| 15°   | 871.4  | 875.1  | 865.1  | 853.9  | 846.8  | 843.9  | 839.7  | 837.6  | 833.5  | 827.6  |
| 17.5° | 888.1  | 890.6  | 880.1  | 866.8  | 858.9  | 856.8  | 853.9  | 855.1  | 854.3  | 851.4  |
| 20°   | 902.2  | 903.9  | 890.1  | 873.9  | 865.1  | 865.6  | 864.7  | 868.9  | 870.6  | 870.6  |
| 22.5° | 919.7  | 920.1  | 902.6  | 882.2  | 871.8  | 874.7  | 876.0  | 880.6  | 883.9  | 887.2  |
| 25°   | 942.6  | 941.8  | 921.0  | 893.1  | 883.9  | 888.1  | 891.0  | 892.6  | 896.4  | 901.8  |
| 27.5° | 976.8  | 974.3  | 947.6  | 910.6  | 899.7  | 903.5  | 908.9  | 908.1  | 906.4  | 910.6  |
| 30°   | 1020.2 | 1016.8 | 981.4  | 935.1  | 925.1  | 928.5  | 930.1  | 922.6  | 910.6  | 914.3  |
| 32.5° | 1088.9 | 1083.1 | 1033.9 | 962.6  | 947.2  | 951.0  | 948.9  | 933.5  | 915.6  | 919.3  |
| 35°   | 1208.5 | 1194.4 | 1124.8 | 1020.2 | 972.2  | 968.1  | 963.1  | 948.1  | 926.0  | 922.2  |
| 37.5° | 1462.7 | 1437.7 | 1319.0 | 1132.3 | 1028.9 | 1001.8 | 986.4  | 971.4  | 937.2  | 922.2  |
| 40°   | 1749.4 | 1724.0 | 1586.9 | 1319.8 | 1123.1 | 1077.3 | 1040.6 | 998.9  | 948.9  | 927.6  |
| 42.5° | 2048.7 | 2020.7 | 1879.9 | 1552.3 | 1257.7 | 1163.5 | 1095.2 | 1021.0 | 968.1  | 944.3  |
| 45°   | 2382.9 | 2347.9 | 2163.7 | 1794.9 | 1453.1 | 1306.9 | 1183.1 | 1066.4 | 1001.4 | 973.9  |
| 47.5° | 2735.4 | 2690.0 | 2446.6 | 2030.3 | 1663.6 | 1505.2 | 1344.0 | 1147.7 | 1050.6 | 1018.1 |
| 50°   | 3048.0 | 3003.0 | 2738.8 | 2276.6 | 1860.3 | 1694.0 | 1527.3 | 1260.2 | 1124.3 | 1080.6 |
| 52.5° | 3272.6 | 3238.4 | 3004.6 | 2530.8 | 2064.9 | 1871.1 | 1693.6 | 1391.0 | 1217.7 | 1160.6 |
| 55°   | 3423.0 | 3391.8 | 3193.0 | 2771.7 | 2302.9 | 2066.2 | 1857.4 | 1533.2 | 1330.2 | 1256.4 |
| 57.5° | 3514.3 | 3496.4 | 3329.3 | 2986.7 | 2538.7 | 2279.5 | 2044.9 | 1689.4 | 1462.7 | 1369.4 |
| 60°   | 3546.8 | 3532.2 | 3413.9 | 3191.7 | 2823.8 | 2535.8 | 2265.4 | 1865.7 | 1623.6 | 1497.7 |
| 62.5° | 3460.1 | 3463.0 | 3474.7 | 3434.7 | 3124.2 | 2835.9 | 2529.6 | 2077.4 | 1801.9 | 1643.2 |
| 65°   | 3052.1 | 3076.3 | 3298.0 | 3703.9 | 3522.2 | 3211.8 | 2865.9 | 2335.8 | 2006.1 | 1808.6 |
| 67.5° | 2527.1 | 2562.1 | 2837.9 | 3861.4 | 3946.4 | 3699.7 | 3334.3 | 2665.0 | 2249.5 | 1977.0 |
| 70°   | 1934.5 | 1972.0 | 2306.2 | 3828.5 | 4343.6 | 4233.2 | 3913.5 | 3083.8 | 2501.6 | 2093.7 |
| 72.5° | 1380.6 | 1399.8 | 1663.2 | 3535.6 | 4506.5 | 4596.5 | 4340.3 | 3480.5 | 2630.4 | 2029.1 |
| 75°   | 970.2  | 966.8  | 1141.4 | 2847.1 | 4252.7 | 4552.4 | 4190.7 | 3265.9 | 2380.4 | 1611.9 |
| 77.5° | 422.6  | 423.4  | 570.1  | 1729.0 | 3394.3 | 3888.1 | 3483.5 | 2045.7 | 1659.4 | 854.3  |
| 80°   | 109.6  | 112.9  | 209.2  | 688.4  | 2043.7 | 2566.2 | 2124.5 | 899.3  | 766.8  | 208.4  |
| 82.5° | 38.8   | 41.3   | 96.3   | 216.3  | 753.9  | 1176.8 | 946.0  | 287.5  | 200.0  | 59.6   |
| 85°   | 11.3   | 13.3   | 51.7   | 66.3   | 155.9  | 332.6  | 229.6  | 55.8   | 49.2   | 30.8   |
| 87.5° | 0.0    | 1.7    | 10.4   | 9.2    | 9.2    | 6.3    | 11.7   | 6.3    | 7.9    | 3.8    |
| 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):**

| 85°    |       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 732.6  | 0°    | 732.6  | 732.6  | 732.6  | 732.6 | 732.6 | 732.6 | 732.6 | 732.6 | 732.6 | 732.6 |
| 738.9  | 2.5°  | 736.4  | 733.4  | 727.2  | 720.5 | 714.3 | 708.4 | 706.8 | 700.5 | 697.6 | 698.0 |
| 744.7  | 5°    | 740.1  | 734.7  | 722.6  | 708.0 | 693.0 | 675.9 | 661.8 | 641.8 | 624.7 | 622.6 |
| 756.0  | 7.5°  | 750.1  | 741.4  | 721.8  | 693.4 | 655.9 | 608.8 | 565.1 | 521.7 | 497.2 | 483.8 |
| 772.6  | 10°   | 765.5  | 753.9  | 723.9  | 669.7 | 590.1 | 505.9 | 439.7 | 385.1 | 357.1 | 344.2 |
| 793.0  | 12.5° | 783.9  | 771.0  | 727.2  | 629.3 | 505.1 | 394.6 | 323.0 | 289.6 | 283.8 | 283.0 |
| 818.0  | 15°   | 809.7  | 795.5  | 730.9  | 574.7 | 413.0 | 300.5 | 267.5 | 268.0 | 272.5 | 275.0 |
| 845.1  | 17.5° | 838.5  | 824.3  | 725.5  | 508.0 | 322.1 | 256.7 | 255.9 | 259.6 | 266.3 | 268.8 |
| 870.1  | 20°   | 867.6  | 854.3  | 706.4  | 429.7 | 260.5 | 244.6 | 248.0 | 252.1 | 258.8 | 262.1 |
| 894.7  | 22.5° | 897.6  | 886.0  | 675.9  | 346.3 | 235.0 | 235.9 | 240.0 | 244.2 | 251.7 | 255.5 |
| 918.9  | 25°   | 929.7  | 919.7  | 635.5  | 277.5 | 224.2 | 226.7 | 232.1 | 237.1 | 245.0 | 249.6 |
| 939.3  | 27.5° | 962.2  | 954.7  | 589.7  | 231.7 | 214.2 | 217.1 | 223.4 | 230.0 | 238.0 | 243.4 |
| 957.2  | 30°   | 997.7  | 993.5  | 553.0  | 214.6 | 204.6 | 207.1 | 214.2 | 221.7 | 230.5 | 237.1 |
| 975.2  | 32.5° | 1033.9 | 1033.1 | 535.1  | 227.1 | 195.9 | 197.5 | 203.8 | 211.3 | 222.1 | 230.5 |
| 990.2  | 35°   | 1069.7 | 1071.4 | 524.7  | 262.5 | 192.9 | 188.4 | 192.5 | 199.2 | 212.1 | 222.5 |
| 1007.2 | 37.5° | 1115.6 | 1119.8 | 524.2  | 300.9 | 200.0 | 179.2 | 182.1 | 186.7 | 197.9 | 210.0 |
| 1033.9 | 40°   | 1183.9 | 1206.0 | 550.9  | 333.8 | 212.5 | 170.9 | 171.7 | 172.5 | 178.4 | 188.4 |
| 1069.3 | 42.5° | 1274.8 | 1339.4 | 647.2  | 356.3 | 217.5 | 163.4 | 160.4 | 155.9 | 155.0 | 160.4 |
| 1117.7 | 45°   | 1387.7 | 1500.7 | 816.4  | 368.8 | 212.5 | 155.0 | 147.1 | 135.0 | 130.4 | 134.2 |
| 1183.1 | 47.5° | 1520.7 | 1677.3 | 1016.8 | 371.7 | 204.2 | 144.6 | 130.4 | 114.6 | 110.9 | 112.1 |
| 1271.0 | 50°   | 1650.3 | 1809.9 | 1193.1 | 347.6 | 190.4 | 131.3 | 112.1 | 98.8  | 96.3  | 96.7  |
| 1374.8 | 52.5° | 1764.9 | 1855.3 | 1243.1 | 290.5 | 172.1 | 115.0 | 96.3  | 87.1  | 85.4  | 85.4  |
| 1489.4 | 55°   | 1840.7 | 1806.1 | 1108.5 | 222.1 | 149.2 | 98.3  | 82.5  | 77.9  | 77.1  | 76.7  |
| 1617.3 | 57.5° | 1856.5 | 1646.1 | 837.2  | 160.4 | 116.7 | 82.9  | 73.3  | 70.8  | 69.2  | 67.5  |
| 1748.6 | 60°   | 1799.9 | 1379.4 | 533.0  | 112.1 | 87.5  | 70.8  | 65.0  | 63.3  | 60.0  | 56.7  |
| 1872.0 | 62.5° | 1677.3 | 1041.8 | 295.0  | 77.9  | 70.4  | 60.4  | 57.5  | 55.4  | 49.2  | 43.8  |
| 1969.9 | 65°   | 1512.7 | 692.6  | 130.4  | 60.8  | 57.5  | 50.8  | 49.2  | 46.3  | 38.8  | 32.5  |
| 2007.0 | 67.5° | 1347.3 | 398.8  | 58.8   | 48.8  | 46.3  | 41.7  | 40.4  | 38.3  | 32.9  | 27.1  |
| 1912.4 | 70°   | 1158.5 | 202.1  | 40.4   | 38.8  | 35.8  | 31.7  | 32.9  | 32.5  | 27.1  | 22.1  |
| 1559.8 | 72.5° | 862.6  | 100.4  | 30.4   | 29.2  | 25.8  | 22.5  | 27.1  | 26.7  | 21.3  | 16.7  |
| 961.8  | 75°   | 488.4  | 49.6   | 22.1   | 20.4  | 15.4  | 16.7  | 21.7  | 20.4  | 14.6  | 10.8  |
| 405.9  | 77.5° | 193.8  | 25.4   | 14.6   | 12.5  | 9.2   | 11.3  | 15.8  | 13.8  | 7.5   | 4.6   |
| 77.5   | 80°   | 44.6   | 12.5   | 7.5    | 5.4   | 4.2   | 6.7   | 8.3   | 5.0   | 2.1   | 0.4   |
| 20.8   | 82.5° | 12.5   | 5.4    | 2.5    | 2.1   | 2.1   | 2.5   | 2.1   | 0.8   | 0.0   | 0.0   |
| 5.4    | 85°   | 4.2    | 2.5    | 0.8    | 0.4   | 0.4   | 0.4   | 0.4   | 0.0   | 0.0   | 0.0   |
| 1.7    | 87.5° | 1.7    | 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> |
| 732.6       |
| 697.6       |
| 621.3       |
| 483.0       |
| 341.7       |
| 282.5       |
| 274.6       |
| 268.4       |
| 262.1       |
| 255.5       |
| 249.6       |
| 243.8       |
| 238.0       |
| 231.3       |
| 224.2       |
| 212.1       |
| 191.7       |
| 163.4       |
| 134.2       |
| 111.7       |
| 96.7        |
| 85.0        |
| 75.8        |
| 66.7        |
| 55.4        |
| 42.1        |
| 31.3        |
| 26.3        |
| 21.3        |
| 15.8        |
| 10.0        |
| 4.2         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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