

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: P945462

Luminaire Tested: **GALN-SB1B-930-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945462  
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-SB1B-930-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

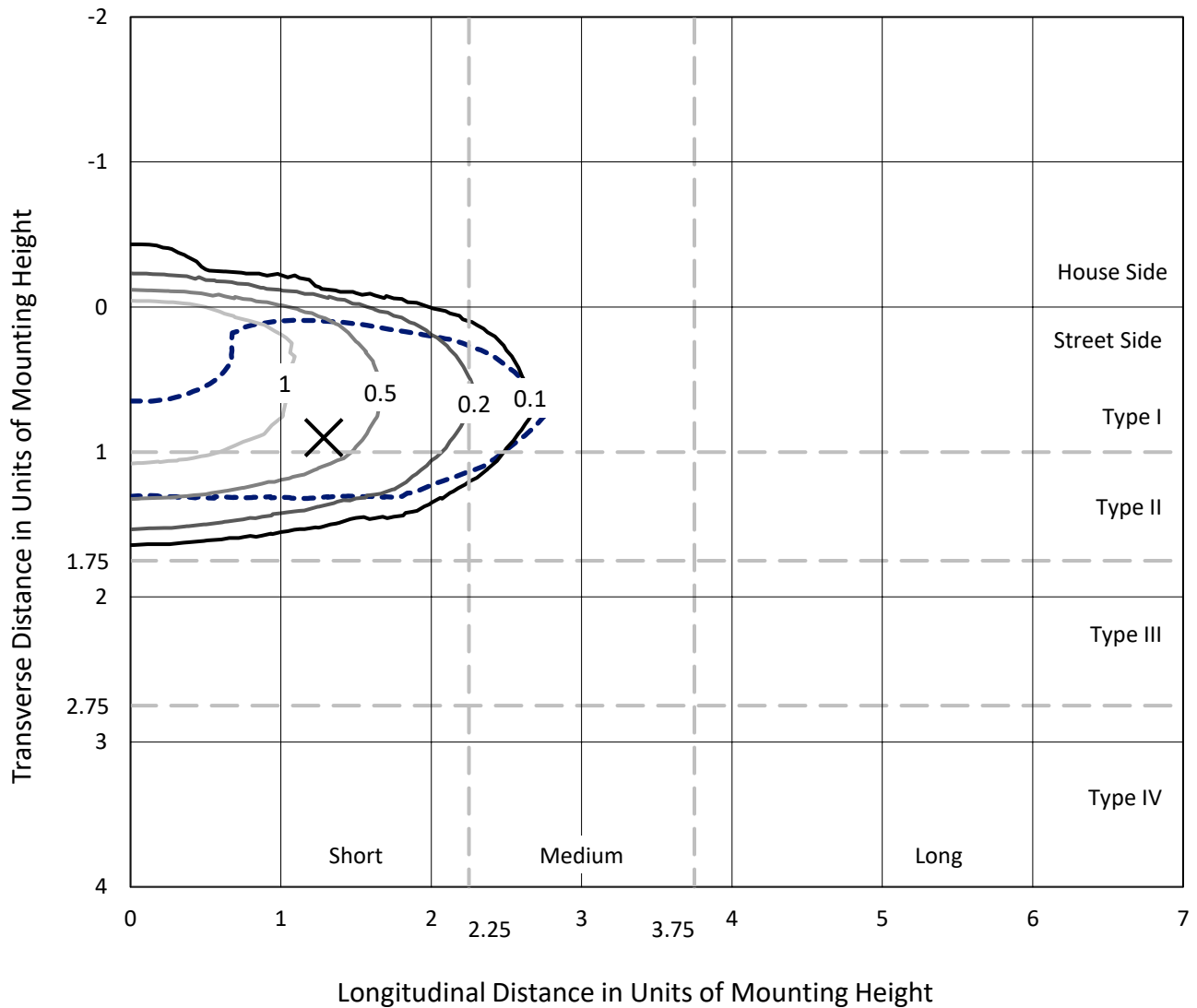
Lumens per Lamp: N/A  
Luminaire Lumens: 3341 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

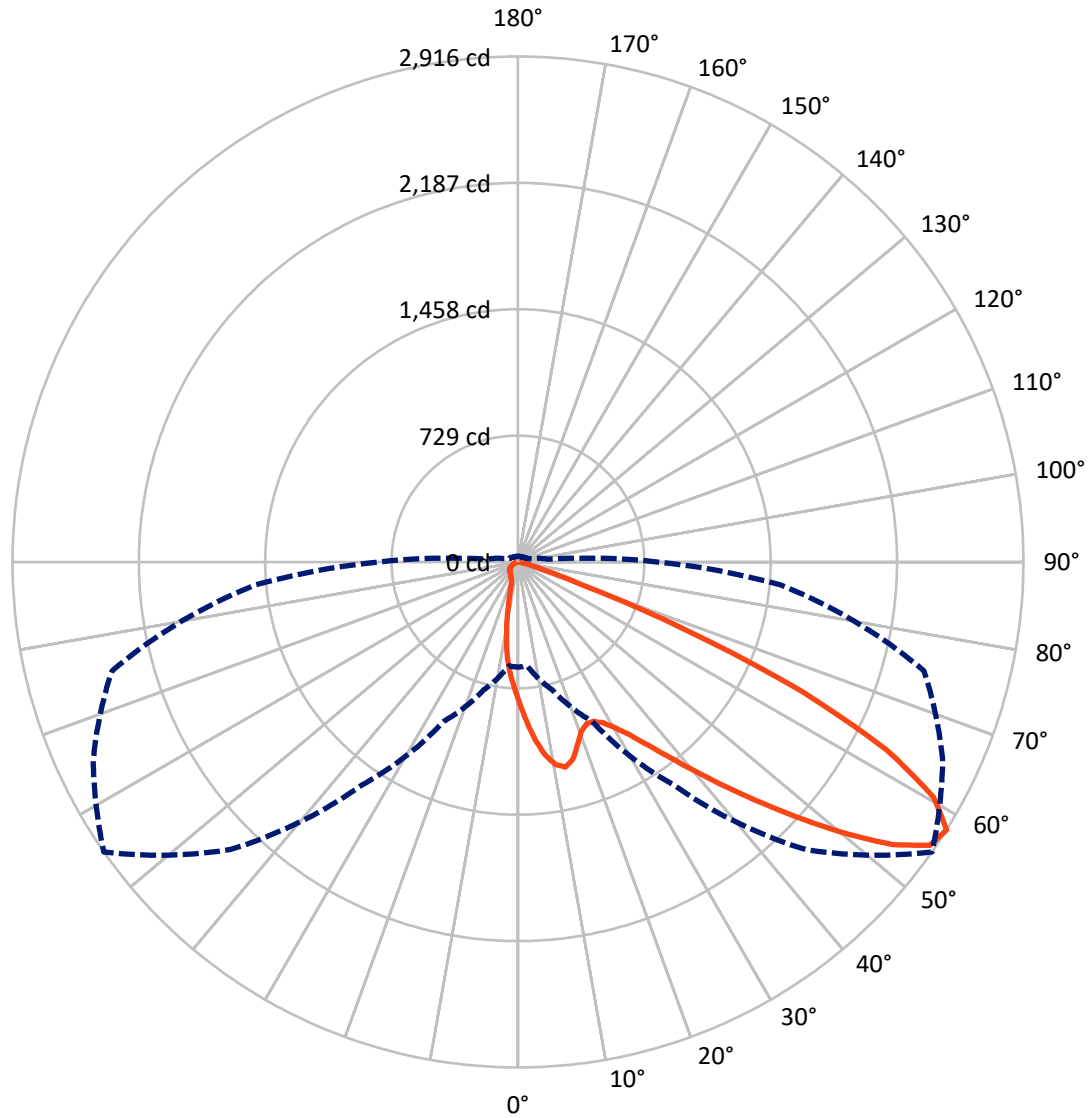
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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    | 260.9    | 0.0    | 260.9  |
|                    | % Fixture | 7.8      | 0.0    | 7.8    |
| <b>Street Side</b> | Lumens    | 3080.1   | 0.0    | 3080.1 |
|                    | % Fixture | 92.2     | 0.0    | 92.2   |
| <b>Total</b>       | Lumens    | 3341.0   | 0.0    | 3341.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.9   | 2.2       |
| 10°-20°   | 180.9  | 5.4       |
| 20°-30°   | 289.5  | 8.7       |
| 30°-40°   | 490.0  | 14.7      |
| 40°-50°   | 804.5  | 24.1      |
| 50°-60°   | 884.2  | 26.5      |
| 60°-70°   | 507.2  | 15.2      |
| 70°-80°   | 103.6  | 3.1       |
| 80°-90°   | 6.1    | 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°    | 3341.0 | 100.0     |
| 0°-180°   | 3341.0 | 100.0     |

**Coefficient of Utilization**



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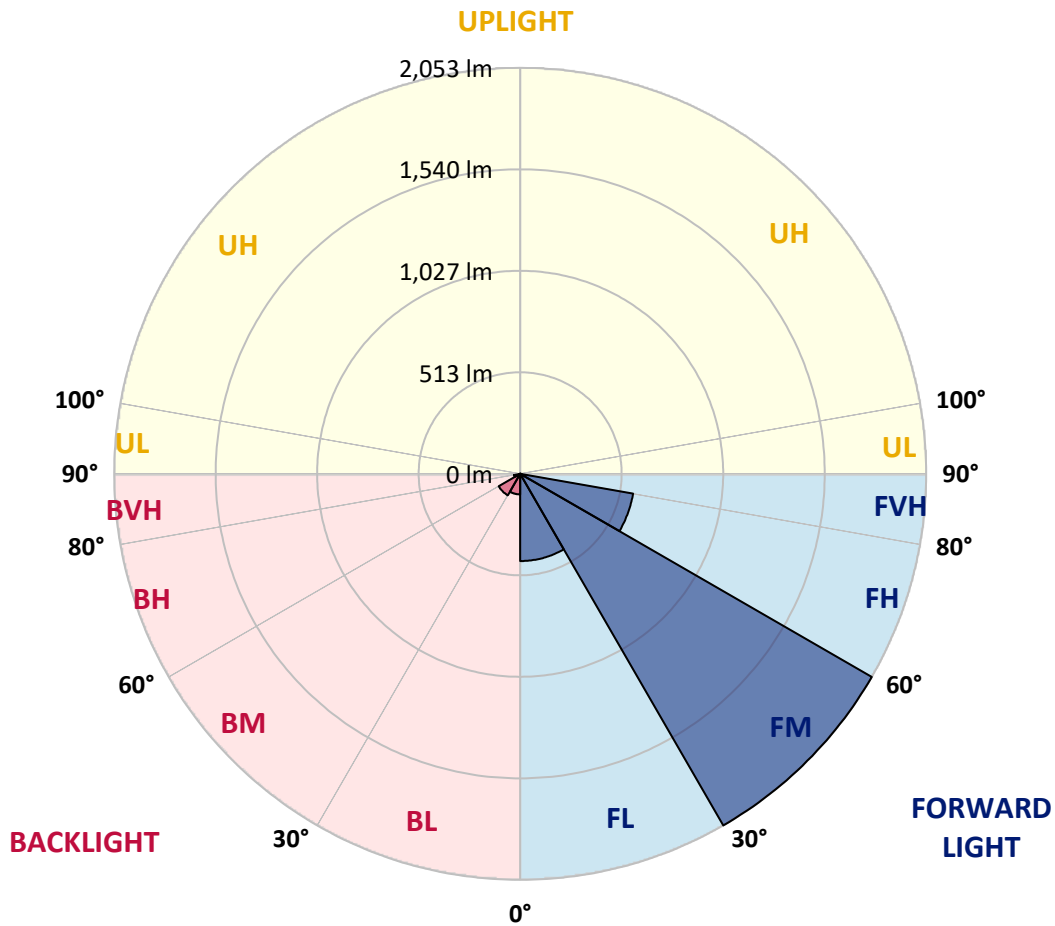
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 441.2  | 13.2      |                         |      |        |
| FM (30°-60°)   | 2053.4 | 61.5      |                         |      |        |
| FH (60°-80°)   | 579.8  | 17.4      |                         |      | G0/660 |
| FVH (80°-90°)  | 5.7    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 104.2  | 3.1       | B0/110                  |      |        |
| BM (30°-60°)   | 125.3  | 3.8       | B0/220                  |      |        |
| BH (60°-80°)   | 31.0   | 0.9       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  | 805.1  |
| 2.5°  | 999.0  | 986.4  | 984.5  | 982.1  | 958.2  | 940.2  | 914.3  | 885.9  | 853.9  | 821.4  |
| 5°    | 1154.1 | 1144.2 | 1142.3 | 1130.8 | 1103.6 | 1073.1 | 1027.0 | 968.7  | 909.1  | 839.1  |
| 7.5°  | 1184.2 | 1182.3 | 1190.8 | 1190.3 | 1186.6 | 1162.5 | 1123.6 | 1054.2 | 964.8  | 860.9  |
| 10°   | 1050.0 | 1054.8 | 1079.9 | 1102.0 | 1161.5 | 1196.1 | 1187.7 | 1130.4 | 1022.0 | 885.9  |
| 12.5° | 927.9  | 922.3  | 940.2  | 965.2  | 1034.4 | 1137.4 | 1214.2 | 1194.1 | 1087.5 | 914.1  |
| 15°   | 851.2  | 849.0  | 859.1  | 870.6  | 923.4  | 1027.2 | 1183.3 | 1245.8 | 1150.6 | 947.5  |
| 17.5° | 826.7  | 824.9  | 828.0  | 830.9  | 865.0  | 945.4  | 1109.8 | 1277.5 | 1210.9 | 985.6  |
| 20°   | 846.7  | 844.2  | 843.8  | 841.6  | 855.8  | 910.6  | 1043.2 | 1279.8 | 1265.1 | 1020.2 |
| 22.5° | 905.0  | 902.1  | 892.0  | 883.0  | 884.2  | 915.3  | 1013.6 | 1257.1 | 1305.9 | 1052.5 |
| 25°   | 1010.7 | 1006.0 | 984.9  | 954.5  | 935.1  | 948.3  | 1018.1 | 1227.2 | 1344.9 | 1077.9 |
| 27.5° | 1143.0 | 1136.8 | 1109.8 | 1064.5 | 1020.2 | 1004.1 | 1050.9 | 1206.6 | 1377.2 | 1097.2 |
| 30°   | 1272.5 | 1264.5 | 1237.9 | 1202.7 | 1138.0 | 1087.3 | 1110.0 | 1215.7 | 1415.7 | 1117.4 |
| 32.5° | 1412.4 | 1404.8 | 1369.6 | 1325.9 | 1272.3 | 1204.1 | 1191.0 | 1260.0 | 1462.9 | 1145.6 |
| 35°   | 1589.4 | 1577.4 | 1527.4 | 1467.8 | 1411.0 | 1342.0 | 1300.6 | 1336.4 | 1525.7 | 1188.7 |
| 37.5° | 1790.9 | 1774.8 | 1720.8 | 1638.6 | 1564.5 | 1487.2 | 1434.1 | 1441.5 | 1617.8 | 1246.4 |
| 40°   | 1980.8 | 1966.2 | 1916.3 | 1838.9 | 1745.8 | 1652.0 | 1595.4 | 1578.9 | 1744.9 | 1316.6 |
| 42.5° | 2094.7 | 2081.6 | 2060.5 | 2027.8 | 1949.3 | 1853.7 | 1782.2 | 1746.6 | 1895.3 | 1400.7 |
| 45°   | 2101.1 | 2089.6 | 2117.8 | 2155.9 | 2140.5 | 2076.8 | 1989.7 | 1924.4 | 2046.3 | 1479.6 |
| 47.5° | 1998.9 | 1991.1 | 2076.8 | 2209.9 | 2276.2 | 2303.0 | 2222.7 | 2087.3 | 2171.0 | 1536.2 |
| 50°   | 1720.4 | 1717.5 | 1893.9 | 2138.2 | 2327.9 | 2501.2 | 2468.4 | 2238.9 | 2267.6 | 1565.5 |
| 52.5° | 1491.7 | 1481.2 | 1584.0 | 1908.7 | 2252.8 | 2605.4 | 2708.7 | 2387.7 | 2335.2 | 1571.1 |
| 55°   | 1131.4 | 1122.2 | 1251.1 | 1524.7 | 2010.3 | 2568.4 | 2884.4 | 2541.2 | 2383.6 | 1556.8 |
| 57.5° | 606.9  | 601.1  | 764.1  | 1014.8 | 1571.5 | 2345.9 | 2916.1 | 2703.5 | 2424.4 | 1519.1 |
| 60°   | 236.3  | 235.3  | 296.2  | 492.4  | 955.1  | 1908.5 | 2756.0 | 2801.0 | 2449.9 | 1472.8 |
| 62.5° | 143.0  | 146.1  | 156.0  | 221.1  | 421.9  | 1185.6 | 2387.1 | 2690.1 | 2467.0 | 1430.3 |
| 65°   | 118.3  | 118.5  | 119.7  | 151.8  | 202.1  | 496.1  | 1797.1 | 2325.5 | 2424.8 | 1354.7 |
| 67.5° | 101.4  | 103.2  | 108.0  | 120.5  | 142.6  | 217.5  | 1034.6 | 1801.4 | 2167.9 | 1178.8 |
| 70°   | 79.9   | 82.4   | 88.4   | 99.1   | 110.0  | 136.2  | 382.4  | 1198.6 | 1656.1 | 888.5  |
| 72.5° | 67.4   | 67.2   | 70.3   | 80.6   | 87.3   | 95.8   | 147.1  | 671.6  | 962.5  | 424.2  |
| 75°   | 52.1   | 54.2   | 58.1   | 67.4   | 71.5   | 69.4   | 79.7   | 245.4  | 344.9  | 128.6  |
| 77.5° | 40.8   | 42.4   | 45.9   | 55.0   | 59.1   | 49.2   | 45.9   | 87.8   | 110.8  | 46.1   |
| 80°   | 18.3   | 19.8   | 31.3   | 40.6   | 48.2   | 34.0   | 24.9   | 44.9   | 49.2   | 21.0   |
| 82.5° | 3.3    | 5.6    | 18.3   | 21.4   | 24.7   | 22.0   | 13.0   | 23.3   | 24.1   | 8.4    |
| 85°   | 0.2    | 0.4    | 6.4    | 7.8    | 9.9    | 7.2    | 3.9    | 9.3    | 8.0    | 2.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.2    | 0.2    | 1.0    | 1.2    | 1.6    | 1.2    | 1.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 90°   |       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 805.1 | 0°    | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 |
| 807.0 | 2.5°  | 792.1 | 762.9 | 734.4 | 711.2 | 697.6 | 674.5 | 659.2 | 656.8 | 650.4 | 655.9 |
| 809.0 | 5°    | 776.9 | 724.5 | 671.6 | 624.2 | 585.3 | 535.0 | 497.5 | 481.7 | 467.9 | 472.6 |
| 814.4 | 7.5°  | 769.7 | 687.1 | 604.6 | 523.7 | 440.5 | 360.1 | 300.4 | 275.4 | 256.5 | 259.2 |
| 820.3 | 10°   | 760.0 | 648.1 | 518.9 | 395.3 | 283.9 | 204.6 | 163.4 | 148.1 | 139.7 | 139.9 |
| 829.2 | 12.5° | 752.6 | 601.6 | 419.4 | 268.0 | 172.8 | 130.6 | 117.8 | 114.1 | 111.7 | 111.9 |
| 842.6 | 15°   | 748.9 | 546.8 | 321.2 | 178.6 | 123.6 | 110.6 | 107.5 | 105.9 | 104.2 | 104.0 |
| 857.4 | 17.5° | 742.7 | 485.8 | 235.1 | 130.4 | 108.2 | 103.6 | 100.9 | 99.1  | 97.0  | 96.6  |
| 870.2 | 20°   | 733.4 | 416.6 | 171.8 | 110.2 | 101.4 | 97.9  | 94.1  | 91.7  | 89.2  | 88.8  |
| 878.2 | 22.5° | 716.3 | 343.4 | 132.1 | 102.0 | 96.4  | 92.5  | 88.0  | 85.1  | 82.6  | 82.2  |
| 874.3 | 25°   | 684.6 | 274.8 | 111.2 | 96.8  | 92.1  | 87.3  | 82.4  | 78.5  | 76.2  | 75.8  |
| 865.9 | 27.5° | 644.4 | 215.9 | 100.9 | 92.1  | 86.5  | 82.2  | 76.6  | 72.9  | 70.9  | 70.5  |
| 854.7 | 30°   | 597.0 | 166.3 | 95.0  | 86.7  | 79.9  | 76.2  | 71.3  | 68.2  | 67.0  | 67.0  |
| 846.9 | 32.5° | 545.9 | 132.9 | 92.5  | 81.4  | 74.2  | 70.0  | 66.1  | 64.9  | 64.5  | 64.3  |
| 851.2 | 35°   | 497.9 | 115.4 | 91.3  | 77.0  | 69.0  | 65.1  | 63.5  | 63.7  | 64.5  | 64.5  |
| 864.6 | 37.5° | 455.3 | 109.8 | 90.6  | 74.0  | 64.5  | 61.0  | 62.0  | 63.9  | 63.0  | 63.0  |
| 888.1 | 40°   | 416.8 | 110.4 | 90.2  | 71.7  | 60.8  | 58.7  | 60.8  | 59.3  | 57.3  | 57.1  |
| 916.8 | 42.5° | 387.3 | 115.6 | 89.4  | 69.8  | 58.5  | 57.1  | 56.2  | 54.0  | 53.8  | 54.2  |
| 946.4 | 45°   | 365.9 | 120.1 | 89.2  | 69.0  | 56.0  | 53.4  | 52.3  | 50.1  | 54.2  | 55.2  |
| 958.6 | 47.5° | 340.5 | 120.1 | 89.2  | 66.1  | 51.9  | 50.9  | 49.2  | 46.8  | 50.9  | 51.9  |
| 947.0 | 50°   | 307.8 | 112.5 | 85.7  | 62.8  | 48.6  | 48.0  | 45.1  | 42.0  | 41.2  | 41.8  |
| 920.1 | 52.5° | 266.4 | 98.7  | 76.8  | 58.3  | 45.3  | 44.1  | 40.6  | 38.3  | 37.7  | 37.7  |
| 871.6 | 55°   | 219.2 | 82.6  | 64.9  | 51.7  | 41.8  | 39.6  | 37.1  | 36.1  | 35.4  | 35.0  |
| 803.9 | 57.5° | 178.2 | 67.8  | 52.1  | 45.9  | 38.5  | 35.6  | 34.8  | 33.6  | 32.6  | 31.9  |
| 747.2 | 60°   | 146.3 | 53.4  | 43.1  | 40.8  | 35.2  | 32.6  | 32.3  | 30.7  | 28.0  | 27.6  |
| 700.4 | 62.5° | 112.9 | 39.1  | 36.3  | 35.4  | 31.9  | 29.7  | 29.3  | 26.0  | 21.8  | 21.0  |
| 634.1 | 65°   | 79.7  | 30.5  | 29.3  | 31.1  | 28.4  | 26.4  | 25.3  | 20.4  | 16.1  | 15.5  |
| 530.7 | 67.5° | 56.0  | 25.5  | 23.1  | 27.2  | 24.7  | 22.0  | 21.4  | 17.3  | 13.4  | 13.0  |
| 401.3 | 70°   | 40.0  | 20.8  | 19.0  | 23.3  | 19.8  | 19.4  | 18.1  | 14.4  | 10.9  | 10.5  |
| 198.6 | 72.5° | 28.2  | 15.9  | 14.6  | 20.2  | 13.6  | 16.7  | 14.8  | 11.1  | 8.2   | 7.8   |
| 67.6  | 75°   | 20.8  | 11.3  | 10.3  | 11.7  | 9.9   | 12.6  | 10.5  | 7.4   | 5.2   | 4.9   |
| 30.5  | 77.5° | 15.2  | 7.2   | 6.2   | 5.8   | 5.8   | 7.8   | 5.8   | 3.1   | 2.3   | 2.1   |
| 15.5  | 80°   | 10.7  | 3.3   | 2.9   | 2.5   | 2.3   | 1.9   | 0.8   | 0.4   | 0.2   | 0.2   |
| 5.4   | 82.5° | 6.4   | 1.4   | 1.4   | 1.0   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.1   | 85°   | 1.4   | 0.6   | 0.6   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.8   | 87.5° | 0.2   | 0.2   | 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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