

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: P953506

Luminaire Tested: **GALN-SB7A-750-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-750-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

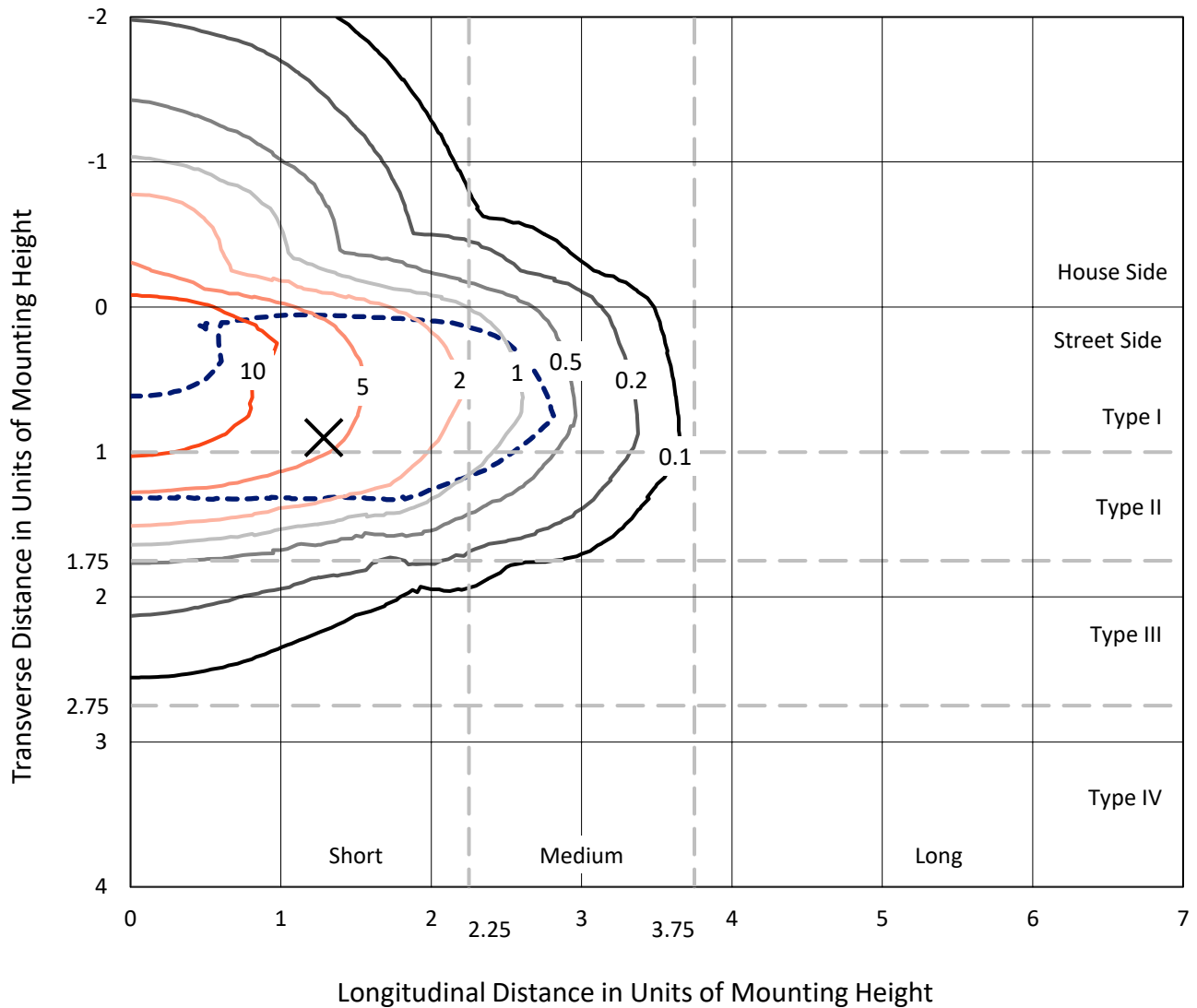
Lumens per Lamp: N/A  
Luminaire Lumens: 34325 lumens  
Efficiency: N/A  
Efficacy: 172.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

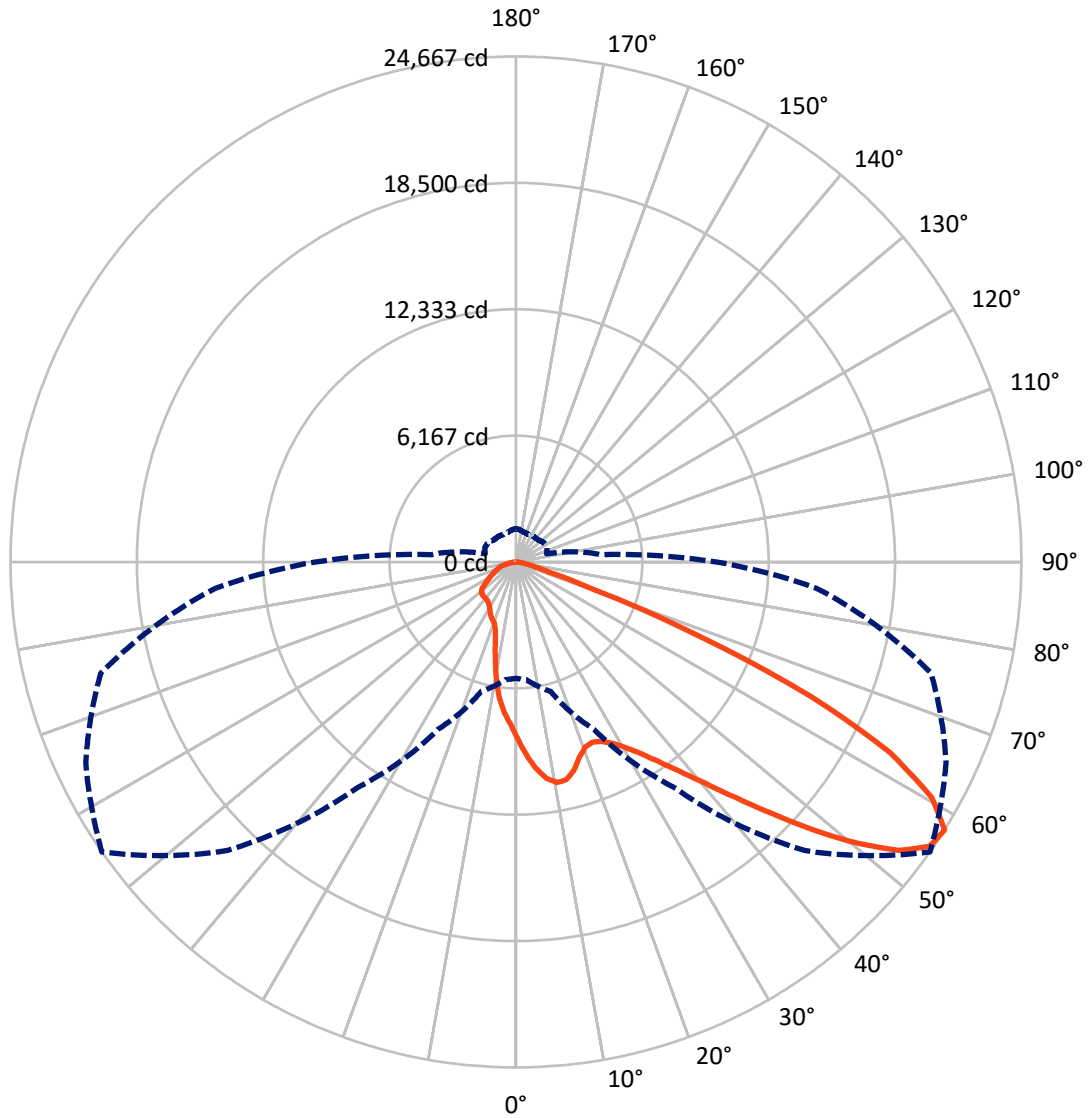
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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    | 6210.9   | 0.0    | 6210.9  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 28114.1  | 0.0    | 28114.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 34325.0  | 0.0    | 34325.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 798.1   | 2.3       |
| 10°-20°   | 2014.4  | 5.9       |
| 20°-30°   | 3214.5  | 9.4       |
| 30°-40°   | 5089.3  | 14.8      |
| 40°-50°   | 7789.7  | 22.7      |
| 50°-60°   | 8343.5  | 24.3      |
| 60°-70°   | 5248.9  | 15.3      |
| 70°-80°   | 1552.2  | 4.5       |
| 80°-90°   | 274.4   | 0.8       |
| 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°    | 34325.0 | 100.0     |
| 0°-180°   | 34325.0 | 100.0     |

**Coefficient of Utilization**



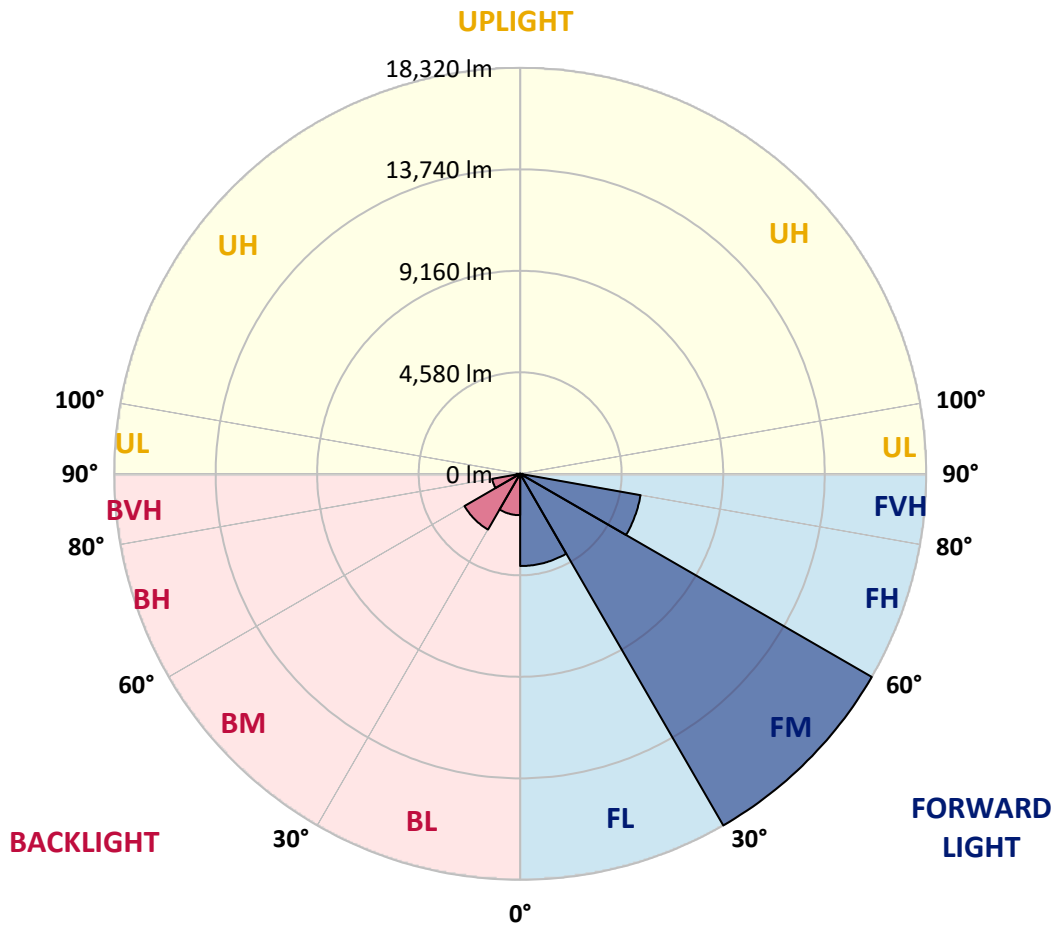
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4160.2  | 12.1      |                         |      |         |
| FM (30°-60°)   | 18319.5 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5518.4  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 116.0   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1866.8  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2902.9  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1282.7  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 158.5   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  | 8600.7  |
| 2.5°  | 9867.7  | 9860.6  | 9899.6  | 9766.5  | 9676.0  | 9553.6  | 9392.1  | 9186.3  | 8964.5  | 8730.3  |
| 5°    | 10756.7 | 10694.6 | 10735.4 | 10636.0 | 10536.6 | 10352.1 | 10112.6 | 9777.2  | 9367.3  | 8900.6  |
| 7.5°  | 10616.5 | 10573.9 | 10678.6 | 10767.3 | 10841.9 | 10818.8 | 10643.1 | 10291.8 | 9763.0  | 9085.2  |
| 10°   | 9486.2  | 9438.3  | 9585.5  | 9892.5  | 10343.2 | 10735.4 | 10948.3 | 10730.1 | 10167.6 | 9287.4  |
| 12.5° | 8488.9  | 8465.9  | 8563.5  | 8811.9  | 9312.3  | 10064.6 | 10909.3 | 11113.3 | 10588.1 | 9527.0  |
| 15°   | 8063.1  | 8034.7  | 8096.8  | 8222.8  | 8542.2  | 9243.1  | 10554.4 | 11376.0 | 11001.6 | 9803.8  |
| 17.5° | 7969.0  | 7937.1  | 7963.7  | 8029.4  | 8235.2  | 8769.3  | 10018.5 | 11505.5 | 11432.7 | 10112.6 |
| 20°   | 8142.9  | 8116.3  | 8119.9  | 8116.3  | 8260.0  | 8684.1  | 9645.9  | 11455.8 | 11808.9 | 10396.5 |
| 22.5° | 8563.5  | 8519.1  | 8520.9  | 8426.8  | 8504.9  | 8833.2  | 9548.3  | 11322.7 | 12144.3 | 10644.9 |
| 25°   | 9248.4  | 9168.6  | 9184.5  | 8945.0  | 8923.7  | 9166.8  | 9700.9  | 11219.8 | 12477.9 | 10843.6 |
| 27.5° | 10185.3 | 10094.8 | 10046.9 | 9690.2  | 9519.9  | 9640.6  | 10011.4 | 11255.3 | 12793.7 | 11015.7 |
| 30°   | 11356.4 | 11246.4 | 11148.8 | 10643.1 | 10334.4 | 10290.0 | 10494.1 | 11489.5 | 13166.4 | 11196.7 |
| 32.5° | 12792.0 | 12664.2 | 12486.8 | 11816.0 | 11381.3 | 11148.8 | 11118.7 | 11906.5 | 13602.9 | 11427.4 |
| 35°   | 14500.8 | 14334.0 | 14082.0 | 13214.3 | 12664.2 | 12188.7 | 11942.0 | 12508.1 | 14200.9 | 11775.2 |
| 37.5° | 16261.0 | 16072.9 | 15842.2 | 14809.5 | 14133.4 | 13432.5 | 12946.3 | 13324.3 | 14997.6 | 12247.2 |
| 40°   | 17884.6 | 17673.5 | 17458.8 | 16539.6 | 15813.8 | 14969.2 | 14176.0 | 14357.0 | 15971.8 | 12811.5 |
| 42.5° | 18842.8 | 18686.7 | 18605.0 | 18108.2 | 17547.5 | 16690.4 | 15705.6 | 15581.4 | 17066.6 | 13460.9 |
| 45°   | 18800.2 | 18736.4 | 18988.3 | 19194.2 | 19061.1 | 18585.5 | 17497.8 | 16935.3 | 18165.0 | 14023.4 |
| 47.5° | 17795.9 | 17838.5 | 18401.0 | 19557.9 | 20067.2 | 20315.6 | 19538.4 | 18264.4 | 19119.6 | 14444.0 |
| 50°   | 15063.3 | 15098.7 | 16401.2 | 18896.1 | 20326.3 | 21726.3 | 21563.0 | 19561.5 | 19859.6 | 14701.3 |
| 52.5° | 12900.2 | 12923.3 | 13482.2 | 16933.5 | 19471.0 | 22436.1 | 23387.2 | 20784.1 | 20400.8 | 14772.2 |
| 55°   | 9716.9  | 9796.7  | 10423.1 | 13285.3 | 17245.8 | 21873.6 | 24498.0 | 22043.9 | 20743.3 | 14779.3 |
| 57.5° | 5676.4  | 5763.4  | 6537.1  | 9017.7  | 13404.2 | 19912.8 | 24666.5 | 23161.8 | 20975.7 | 14722.6 |
| 60°   | 2780.6  | 2817.8  | 3155.0  | 4739.5  | 8265.4  | 16135.0 | 23310.9 | 23703.0 | 21105.2 | 14692.4 |
| 62.5° | 1873.8  | 1868.5  | 1882.7  | 2338.7  | 4072.3  | 10366.3 | 20486.0 | 22755.5 | 21036.0 | 14577.1 |
| 65°   | 1611.2  | 1591.7  | 1538.4  | 1641.4  | 2109.8  | 4741.3  | 15828.0 | 19927.0 | 20509.0 | 14287.8 |
| 67.5° | 1392.9  | 1394.7  | 1396.5  | 1364.5  | 1506.5  | 2187.9  | 9672.5  | 15696.7 | 18617.5 | 12918.0 |
| 70°   | 1153.4  | 1169.4  | 1176.5  | 1176.5  | 1227.9  | 1435.5  | 4129.1  | 10758.5 | 14685.3 | 10128.5 |
| 72.5° | 1050.5  | 1016.8  | 1020.3  | 1002.6  | 1002.6  | 1093.1  | 1662.7  | 6098.8  | 9252.0  | 5697.7  |
| 75°   | 857.1   | 878.3   | 881.9   | 869.5   | 828.7   | 834.0   | 986.6   | 2558.7  | 3958.8  | 2363.6  |
| 77.5° | 739.9   | 739.9   | 747.0   | 738.2   | 706.2   | 624.6   | 658.3   | 991.9   | 1346.8  | 968.8   |
| 80°   | 594.4   | 592.7   | 622.8   | 640.6   | 590.9   | 461.4   | 420.5   | 548.3   | 598.0   | 425.9   |
| 82.5° | 289.2   | 307.0   | 427.6   | 488.0   | 448.9   | 333.6   | 257.3   | 340.7   | 319.4   | 188.1   |
| 85°   | 168.6   | 159.7   | 191.6   | 271.5   | 257.3   | 184.5   | 124.2   | 177.4   | 166.8   | 95.8    |
| 87.5° | 53.2    | 49.7    | 39.0    | 92.3    | 74.5    | 51.5    | 33.7    | 51.5    | 46.1    | 21.3    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8600.7  | 0°    | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 | 8600.7 |
| 8629.1  | 2.5°  | 8503.1 | 8293.8 | 8086.1 | 7896.3 | 7780.9 | 7706.4 | 7631.9 | 7548.5 | 7516.5 | 7468.6 |
| 8652.2  | 5°    | 8418.0 | 8013.4 | 7653.2 | 7342.6 | 7060.5 | 6838.7 | 6615.1 | 6434.1 | 6352.5 | 6407.5 |
| 8724.9  | 7.5°  | 8368.3 | 7782.7 | 7227.3 | 6657.7 | 6109.4 | 5671.1 | 5289.6 | 5021.7 | 4901.0 | 4931.2 |
| 8795.9  | 10°   | 8323.9 | 7521.9 | 6675.5 | 5775.8 | 4988.0 | 4445.0 | 4054.6 | 3850.5 | 3774.2 | 3790.2 |
| 8891.7  | 12.5° | 8283.1 | 7229.1 | 6010.0 | 4826.5 | 3989.0 | 3630.5 | 3518.7 | 3520.5 | 3534.7 | 3545.3 |
| 9044.3  | 15°   | 8276.0 | 6876.0 | 5266.6 | 3996.0 | 3449.5 | 3426.5 | 3547.1 | 3623.4 | 3664.2 | 3676.6 |
| 9172.1  | 17.5° | 8265.4 | 6453.7 | 4508.9 | 3430.0 | 3318.2 | 3474.4 | 3586.2 | 3635.8 | 3667.8 | 3669.6 |
| 9296.3  | 20°   | 8222.8 | 5917.8 | 3809.7 | 3160.3 | 3289.8 | 3424.7 | 3493.9 | 3532.9 | 3559.5 | 3568.4 |
| 9390.4  | 22.5° | 8091.5 | 5321.6 | 3265.0 | 3039.6 | 3176.3 | 3284.5 | 3366.1 | 3410.5 | 3426.5 | 3437.1 |
| 9408.1  | 25°   | 7855.5 | 4654.4 | 2888.8 | 2924.3 | 3018.3 | 3155.0 | 3220.6 | 3229.5 | 3224.2 | 3240.1 |
| 9363.7  | 27.5° | 7546.7 | 3939.3 | 2654.6 | 2768.1 | 2888.8 | 3005.9 | 3041.4 | 3036.1 | 3025.4 | 3043.2 |
| 9287.4  | 30°   | 7174.1 | 3296.9 | 2505.5 | 2592.5 | 2757.5 | 2864.0 | 2895.9 | 2883.5 | 2862.2 | 2881.7 |
| 9248.4  | 32.5° | 6780.2 | 2771.7 | 2383.1 | 2470.0 | 2649.2 | 2753.9 | 2785.9 | 2773.5 | 2757.5 | 2773.5 |
| 9292.8  | 35°   | 6412.8 | 2404.4 | 2269.5 | 2388.4 | 2564.1 | 2667.0 | 2707.8 | 2709.6 | 2709.6 | 2729.1 |
| 9409.9  | 37.5° | 6075.7 | 2189.7 | 2175.5 | 2336.9 | 2505.5 | 2597.8 | 2656.3 | 2659.9 | 2583.6 | 2588.9 |
| 9608.6  | 40°   | 5763.4 | 2099.2 | 2132.9 | 2303.2 | 2448.7 | 2537.5 | 2541.0 | 2342.3 | 2202.1 | 2198.5 |
| 9835.7  | 42.5° | 5507.9 | 2081.4 | 2145.3 | 2299.7 | 2407.9 | 2411.5 | 2161.3 | 2006.9 | 1967.9 | 1969.6 |
| 10045.1 | 45°   | 5268.3 | 2076.1 | 2173.7 | 2299.7 | 2347.6 | 2083.2 | 1914.6 | 1873.8 | 1877.4 | 1891.6 |
| 10139.2 | 47.5° | 5000.4 | 2054.8 | 2179.0 | 2267.7 | 2173.7 | 1852.5 | 1802.8 | 1785.1 | 1778.0 | 1781.5 |
| 10117.9 | 50°   | 4707.6 | 1978.5 | 2111.6 | 2203.9 | 1875.6 | 1753.2 | 1691.0 | 1685.7 | 1694.6 | 1699.9 |
| 9999.0  | 52.5° | 4398.8 | 1854.3 | 1996.2 | 2088.5 | 1739.0 | 1666.2 | 1597.0 | 1609.4 | 1648.5 | 1660.9 |
| 9874.8  | 55°   | 4196.6 | 1708.8 | 1843.6 | 1857.8 | 1643.1 | 1584.6 | 1526.0 | 1554.4 | 1627.2 | 1650.2 |
| 9800.3  | 57.5° | 4143.3 | 1554.4 | 1669.8 | 1653.8 | 1520.7 | 1513.6 | 1478.1 | 1503.0 | 1595.2 | 1628.9 |
| 9796.7  | 60°   | 4127.4 | 1416.0 | 1499.4 | 1487.0 | 1401.8 | 1435.5 | 1426.7 | 1439.1 | 1471.0 | 1481.7 |
| 9761.2  | 62.5° | 4003.1 | 1306.0 | 1346.8 | 1329.1 | 1295.3 | 1353.9 | 1375.2 | 1348.6 | 1373.4 | 1385.8 |
| 9518.1  | 65°   | 3687.3 | 1217.3 | 1197.7 | 1185.3 | 1199.5 | 1252.8 | 1295.3 | 1242.1 | 1265.2 | 1300.7 |
| 8581.2  | 67.5° | 3165.6 | 1096.6 | 1043.4 | 1057.6 | 1101.9 | 1130.3 | 1185.3 | 1125.0 | 1144.5 | 1204.8 |
| 6911.5  | 70°   | 2560.5 | 944.0  | 896.1  | 936.9  | 979.5  | 1038.0 | 1046.9 | 1006.1 | 1052.2 | 1119.7 |
| 4217.9  | 72.5° | 1811.7 | 789.6  | 755.9  | 839.3  | 853.5  | 929.8  | 910.3  | 890.8  | 954.7  | 977.7  |
| 2085.0  | 75°   | 1256.3 | 637.0  | 617.5  | 681.4  | 732.8  | 798.5  | 784.3  | 807.4  | 942.2  | 952.9  |
| 1041.6  | 77.5° | 795.0  | 495.1  | 482.6  | 523.5  | 594.4  | 667.2  | 690.3  | 952.9  | 1609.4 | 1673.3 |
| 541.2   | 80°   | 461.4  | 369.1  | 354.9  | 386.8  | 448.9  | 516.4  | 665.4  | 1169.4 | 1061.1 | 1048.7 |
| 243.1   | 82.5° | 257.3  | 253.7  | 236.0  | 244.9  | 299.9  | 372.6  | 940.5  | 823.3  | 669.0  | 690.3  |
| 97.6    | 85°   | 120.7  | 149.1  | 127.8  | 122.4  | 168.6  | 436.5  | 628.2  | 470.2  | 312.3  | 305.2  |
| 21.3    | 87.5° | 31.9   | 28.4   | 28.4   | 31.9   | 71.0   | 376.2  | 250.2  | 200.5  | 118.9  | 115.3  |
| 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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