

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: P951889

Luminaire Tested: **GALN-SB5D-930-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951889  
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-SB5D-930-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

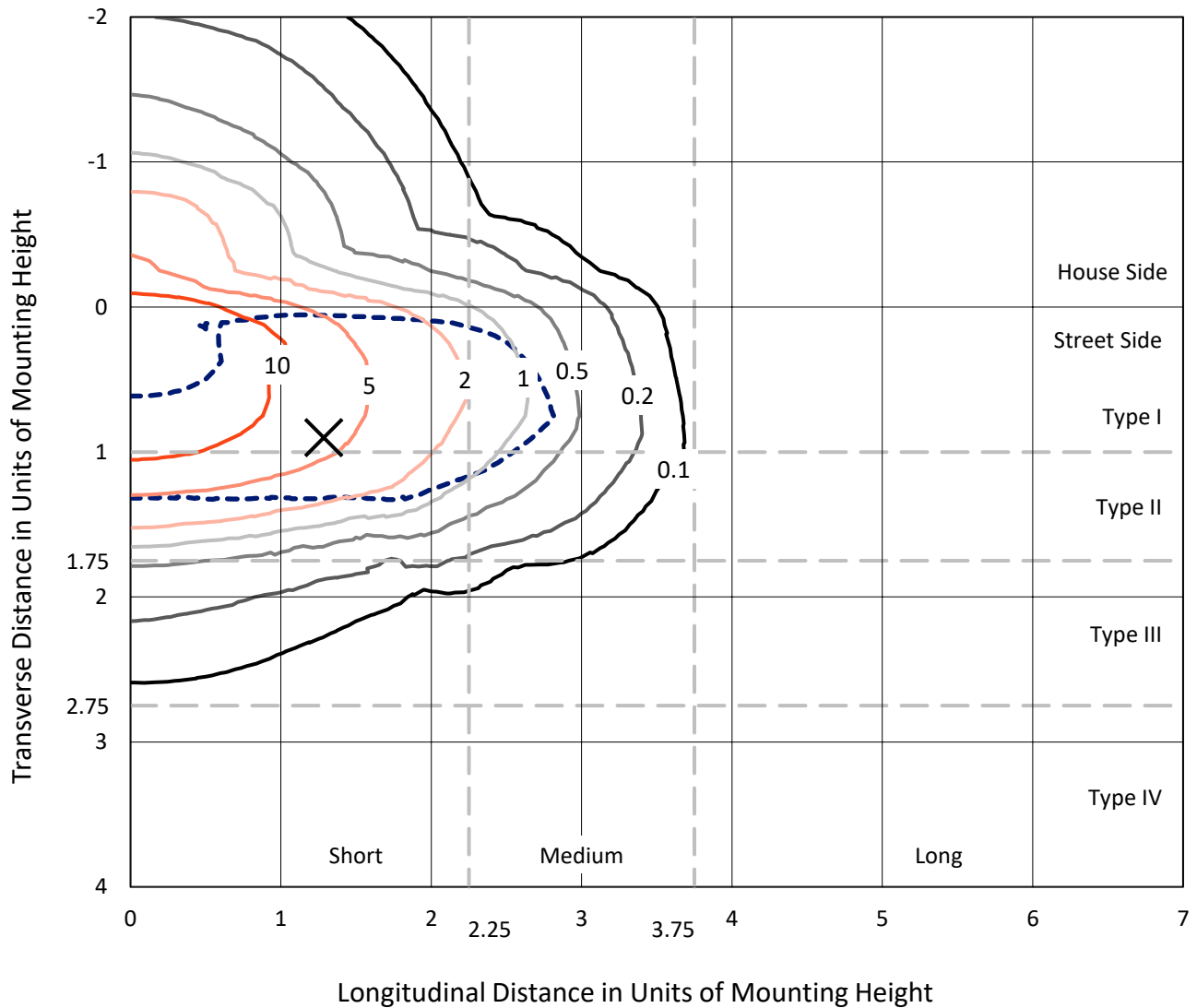
Lumens per Lamp: N/A  
Luminaire Lumens: 36368 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

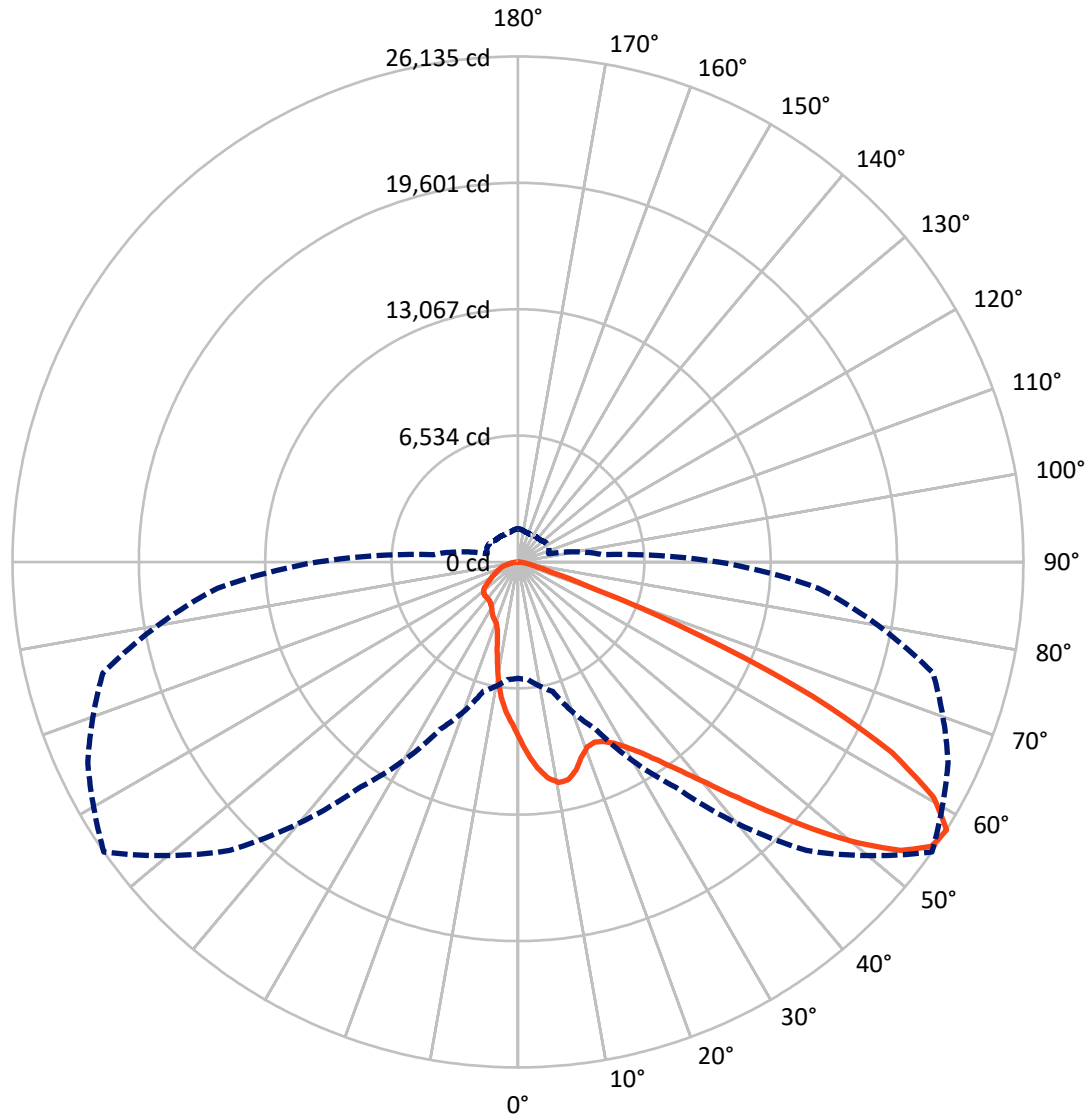
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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    | 6580.6   | 0.0    | 6580.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 29787.4  | 0.0    | 29787.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 36368.0  | 0.0    | 36368.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 845.6   | 2.3       |
| 10°-20°   | 2134.3  | 5.9       |
| 20°-30°   | 3405.8  | 9.4       |
| 30°-40°   | 5392.2  | 14.8      |
| 40°-50°   | 8253.3  | 22.7      |
| 50°-60°   | 8840.1  | 24.3      |
| 60°-70°   | 5561.3  | 15.3      |
| 70°-80°   | 1644.6  | 4.5       |
| 80°-90°   | 290.8   | 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°    | 36368.0 | 100.0     |
| 0°-180°   | 36368.0 | 100.0     |

**Coefficient of Utilization**



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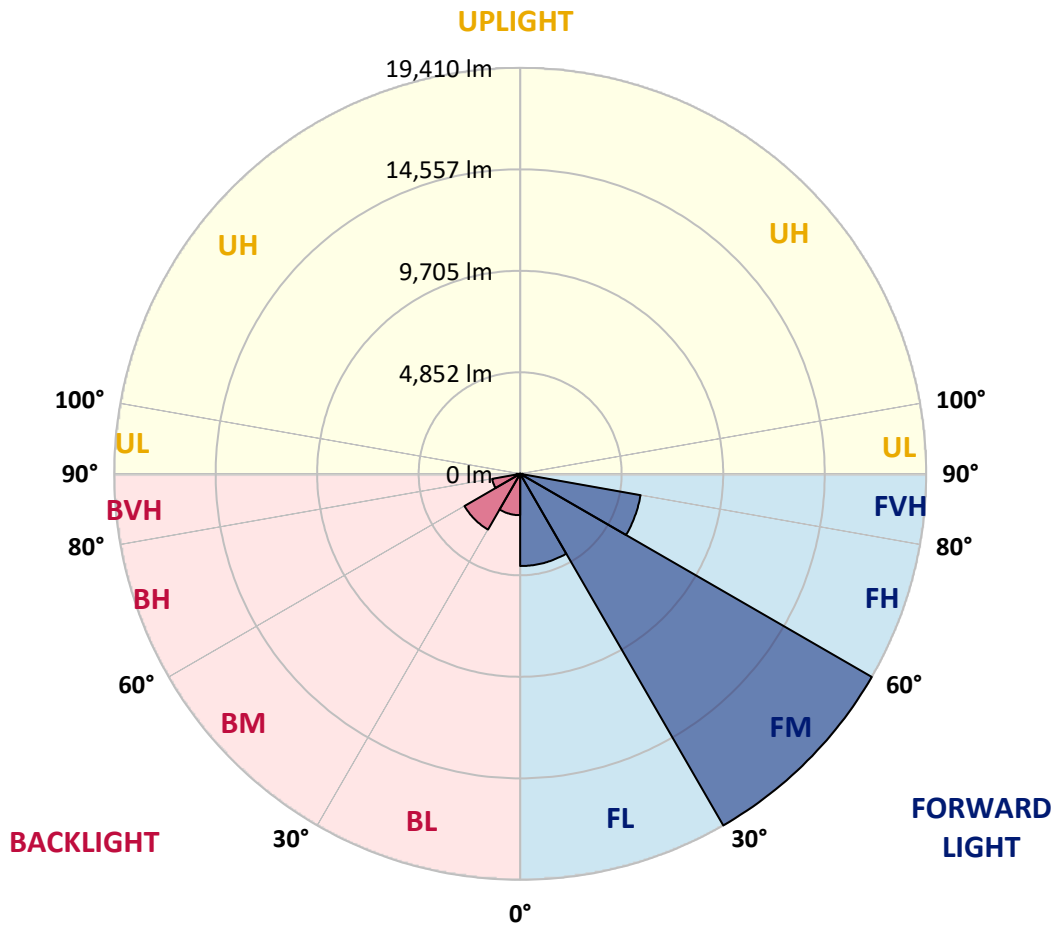
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4407.8  | 12.1      |                         |      |         |
| FM (30°-60°)   | 19409.9 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5846.9  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 122.9   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1977.9  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3075.7  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1359.1  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 167.9   | 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°    | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  | 9112.6  |
| 2.5°  | 10455.0 | 10447.5 | 10488.8 | 10347.8 | 10252.0 | 10122.2 | 9951.1  | 9733.1  | 9498.1  | 9249.9  |
| 5°    | 11396.9 | 11331.1 | 11374.3 | 11269.1 | 11163.8 | 10968.3 | 10714.4 | 10359.1 | 9924.8  | 9430.4  |
| 7.5°  | 11248.4 | 11203.3 | 11314.2 | 11408.2 | 11487.2 | 11462.7 | 11276.6 | 10904.3 | 10344.1 | 9625.9  |
| 10°   | 10050.8 | 10000.0 | 10156.1 | 10481.3 | 10958.9 | 11374.3 | 11600.0 | 11368.7 | 10772.7 | 9840.2  |
| 12.5° | 8994.2  | 8969.8  | 9073.2  | 9336.4  | 9866.5  | 10663.7 | 11558.6 | 11774.8 | 11218.3 | 10094.0 |
| 15°   | 8543.0  | 8512.9  | 8578.7  | 8712.2  | 9050.6  | 9793.2  | 11182.6 | 12053.1 | 11656.4 | 10387.3 |
| 17.5° | 8443.3  | 8409.5  | 8437.7  | 8507.3  | 8725.3  | 9291.2  | 10614.8 | 12190.3 | 12113.2 | 10714.4 |
| 20°   | 8627.6  | 8599.4  | 8603.1  | 8599.4  | 8751.7  | 9201.0  | 10220.0 | 12137.7 | 12511.8 | 11015.3 |
| 22.5° | 9073.2  | 9026.2  | 9028.0  | 8928.4  | 9011.1  | 9358.9  | 10116.6 | 11996.6 | 12867.1 | 11278.5 |
| 25°   | 9798.9  | 9714.3  | 9731.2  | 9477.4  | 9454.8  | 9712.4  | 10278.3 | 11887.6 | 13220.6 | 11489.0 |
| 27.5° | 10791.5 | 10695.6 | 10644.9 | 10267.0 | 10086.5 | 10214.4 | 10607.3 | 11925.2 | 13555.2 | 11671.4 |
| 30°   | 12032.4 | 11915.8 | 11812.4 | 11276.6 | 10949.5 | 10902.5 | 11118.7 | 12173.4 | 13950.0 | 11863.2 |
| 32.5° | 13553.3 | 13418.0 | 13230.0 | 12519.3 | 12058.7 | 11812.4 | 11780.4 | 12615.2 | 14412.5 | 12107.6 |
| 35°   | 15363.8 | 15187.1 | 14920.1 | 14000.8 | 13418.0 | 12914.1 | 12652.8 | 13252.5 | 15046.1 | 12476.1 |
| 37.5° | 17228.8 | 17029.6 | 16785.2 | 15691.0 | 14974.7 | 14232.0 | 13716.9 | 14117.4 | 15890.2 | 12976.2 |
| 40°   | 18949.1 | 18725.4 | 18497.9 | 17524.0 | 16755.1 | 15860.2 | 15019.8 | 15211.5 | 16922.4 | 13574.0 |
| 42.5° | 19964.3 | 19798.9 | 19712.4 | 19186.0 | 18591.9 | 17683.8 | 16640.4 | 16508.8 | 18082.4 | 14262.1 |
| 45°   | 19919.2 | 19851.5 | 20118.5 | 20336.6 | 20195.6 | 19691.7 | 18539.3 | 17943.3 | 19246.2 | 14858.1 |
| 47.5° | 18855.1 | 18900.2 | 19496.2 | 20722.0 | 21261.6 | 21524.8 | 20701.3 | 19351.4 | 20257.6 | 15303.7 |
| 50°   | 15959.8 | 15997.4 | 17377.4 | 20020.7 | 21536.1 | 23019.4 | 22846.5 | 20725.8 | 21041.6 | 15576.3 |
| 52.5° | 13668.0 | 13692.5 | 14284.7 | 17941.4 | 20629.9 | 23771.5 | 24779.2 | 22021.1 | 21615.0 | 15651.5 |
| 55°   | 10295.2 | 10379.8 | 11043.5 | 14076.0 | 18272.3 | 23175.5 | 25956.1 | 23356.0 | 21977.9 | 15659.0 |
| 57.5° | 6014.3  | 6106.4  | 6926.1  | 9554.5  | 14202.0 | 21098.0 | 26134.7 | 24540.4 | 22224.2 | 15598.8 |
| 60°   | 2946.1  | 2985.5  | 3342.7  | 5021.6  | 8757.3  | 17095.4 | 24698.3 | 25113.8 | 22361.4 | 15566.9 |
| 62.5° | 1985.3  | 1979.7  | 1994.7  | 2477.9  | 4314.7  | 10983.3 | 21705.3 | 24109.9 | 22288.1 | 15444.7 |
| 65°   | 1707.1  | 1686.4  | 1630.0  | 1739.1  | 2235.4  | 5023.5  | 16770.1 | 21113.0 | 21729.7 | 15138.2 |
| 67.5° | 1475.8  | 1477.7  | 1479.6  | 1445.8  | 1596.2  | 2318.1  | 10248.2 | 16631.0 | 19725.6 | 13686.8 |
| 70°   | 1222.0  | 1239.0  | 1246.5  | 1246.5  | 1301.0  | 1521.0  | 4374.9  | 11398.8 | 15559.4 | 10731.4 |
| 72.5° | 1113.0  | 1077.3  | 1081.0  | 1062.2  | 1062.2  | 1158.1  | 1761.6  | 6461.8  | 9802.6  | 6036.9  |
| 75°   | 908.1   | 930.6   | 934.4   | 921.2   | 878.0   | 883.6   | 1045.3  | 2711.0  | 4194.4  | 2504.2  |
| 77.5° | 784.0   | 784.0   | 791.5   | 782.1   | 748.3   | 661.8   | 697.5   | 1051.0  | 1427.0  | 1026.5  |
| 80°   | 629.8   | 627.9   | 659.9   | 678.7   | 626.1   | 488.8   | 445.6   | 580.9   | 633.6   | 451.2   |
| 82.5° | 306.4   | 325.3   | 453.1   | 517.0   | 475.7   | 353.5   | 272.6   | 361.0   | 338.4   | 199.3   |
| 85°   | 178.6   | 169.2   | 203.0   | 287.6   | 272.6   | 195.5   | 131.6   | 188.0   | 176.7   | 101.5   |
| 87.5° | 56.4    | 52.6    | 41.4    | 97.8    | 79.0    | 54.5    | 35.7    | 54.5    | 48.9    | 22.6    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9112.6  | 0°    | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 | 9112.6 |
| 9142.7  | 2.5°  | 9009.2 | 8787.4 | 8567.4 | 8366.3 | 8244.1 | 8165.1 | 8086.1 | 7997.8 | 7963.9 | 7913.2 |
| 9167.2  | 5°    | 8919.0 | 8490.3 | 8108.7 | 7779.7 | 7480.8 | 7245.7 | 7008.9 | 6817.1 | 6730.6 | 6788.9 |
| 9244.2  | 7.5°  | 8866.4 | 8245.9 | 7657.5 | 7054.0 | 6473.0 | 6008.7 | 5604.5 | 5320.6 | 5192.7 | 5224.7 |
| 9319.4  | 10°   | 8819.4 | 7969.6 | 7072.8 | 6119.6 | 5284.8 | 4709.5 | 4295.9 | 4079.7 | 3998.9 | 4015.8 |
| 9421.0  | 12.5° | 8776.1 | 7659.4 | 6367.8 | 5113.8 | 4226.4 | 3846.6 | 3728.2 | 3730.0 | 3745.1 | 3756.4 |
| 9582.7  | 15°   | 8768.6 | 7285.2 | 5580.0 | 4233.9 | 3654.8 | 3630.4 | 3758.2 | 3839.1 | 3882.3 | 3895.5 |
| 9718.0  | 17.5° | 8757.3 | 6837.8 | 4777.2 | 3634.2 | 3515.7 | 3681.2 | 3799.6 | 3852.2 | 3886.1 | 3888.0 |
| 9849.6  | 20°   | 8712.2 | 6270.0 | 4036.5 | 3348.4 | 3485.6 | 3628.5 | 3701.8 | 3743.2 | 3771.4 | 3780.8 |
| 9949.3  | 22.5° | 8573.1 | 5638.3 | 3459.3 | 3220.5 | 3365.3 | 3480.0 | 3566.5 | 3613.5 | 3630.4 | 3641.7 |
| 9968.1  | 25°   | 8323.0 | 4931.4 | 3060.7 | 3098.3 | 3198.0 | 3342.7 | 3412.3 | 3421.7 | 3416.1 | 3433.0 |
| 9921.1  | 27.5° | 7995.9 | 4173.7 | 2812.6 | 2932.9 | 3060.7 | 3184.8 | 3222.4 | 3216.8 | 3205.5 | 3224.3 |
| 9840.2  | 30°   | 7601.1 | 3493.1 | 2654.6 | 2746.8 | 2921.6 | 3034.4 | 3068.3 | 3055.1 | 3032.5 | 3053.2 |
| 9798.9  | 32.5° | 7183.7 | 2936.7 | 2524.9 | 2617.0 | 2806.9 | 2917.8 | 2951.7 | 2938.5 | 2921.6 | 2938.5 |
| 9845.9  | 35°   | 6794.5 | 2547.5 | 2404.6 | 2530.6 | 2716.7 | 2825.7 | 2869.0 | 2870.8 | 2870.8 | 2891.5 |
| 9969.9  | 37.5° | 6437.3 | 2320.0 | 2305.0 | 2476.0 | 2654.6 | 2752.4 | 2814.4 | 2818.2 | 2737.4 | 2743.0 |
| 10180.5 | 40°   | 6106.4 | 2224.1 | 2259.8 | 2440.3 | 2594.5 | 2688.5 | 2692.2 | 2481.7 | 2333.2 | 2329.4 |
| 10421.2 | 42.5° | 5835.7 | 2205.3 | 2273.0 | 2436.6 | 2551.2 | 2555.0 | 2289.9 | 2126.3 | 2085.0 | 2086.9 |
| 10643.0 | 45°   | 5581.9 | 2199.7 | 2303.1 | 2436.6 | 2487.3 | 2207.2 | 2028.6 | 1985.3 | 1989.1 | 2004.1 |
| 10742.7 | 47.5° | 5298.0 | 2177.1 | 2308.7 | 2402.7 | 2303.1 | 1962.8 | 1910.1 | 1891.3 | 1883.8 | 1887.6 |
| 10720.1 | 50°   | 4987.8 | 2096.3 | 2237.3 | 2335.0 | 1987.2 | 1857.5 | 1791.7 | 1786.1 | 1795.5 | 1801.1 |
| 10594.1 | 52.5° | 4660.7 | 1964.7 | 2115.1 | 2212.8 | 1842.5 | 1765.4 | 1692.1 | 1705.2 | 1746.6 | 1759.7 |
| 10462.5 | 55°   | 4446.3 | 1810.5 | 1953.4 | 1968.4 | 1740.9 | 1678.9 | 1616.8 | 1646.9 | 1724.0 | 1748.5 |
| 10383.6 | 57.5° | 4389.9 | 1646.9 | 1769.1 | 1752.2 | 1611.2 | 1603.7 | 1566.1 | 1592.4 | 1690.2 | 1725.9 |
| 10379.8 | 60°   | 4373.0 | 1500.3 | 1588.6 | 1575.5 | 1485.2 | 1521.0 | 1511.6 | 1524.7 | 1558.6 | 1569.8 |
| 10342.2 | 62.5° | 4241.4 | 1383.7 | 1427.0 | 1408.2 | 1372.4 | 1434.5 | 1457.0 | 1428.8 | 1455.2 | 1468.3 |
| 10084.6 | 65°   | 3906.8 | 1289.7 | 1269.0 | 1255.9 | 1270.9 | 1327.3 | 1372.4 | 1316.0 | 1340.5 | 1378.1 |
| 9092.0  | 67.5° | 3354.0 | 1161.9 | 1105.5 | 1120.5 | 1167.5 | 1197.6 | 1255.9 | 1192.0 | 1212.6 | 1276.6 |
| 7322.8  | 70°   | 2712.9 | 1000.2 | 949.4  | 992.7  | 1037.8 | 1099.8 | 1109.2 | 1066.0 | 1114.9 | 1186.3 |
| 4468.9  | 72.5° | 1919.5 | 836.6  | 800.9  | 889.3  | 904.3  | 985.2  | 964.5  | 943.8  | 1011.5 | 1035.9 |
| 2209.1  | 75°   | 1331.1 | 674.9  | 654.3  | 721.9  | 776.5  | 846.0  | 831.0  | 855.4  | 998.3  | 1009.6 |
| 1103.6  | 77.5° | 842.3  | 524.5  | 511.4  | 554.6  | 629.8  | 706.9  | 731.3  | 1009.6 | 1705.2 | 1772.9 |
| 573.4   | 80°   | 488.8  | 391.1  | 376.0  | 409.9  | 475.7  | 547.1  | 705.0  | 1239.0 | 1124.3 | 1111.1 |
| 257.6   | 82.5° | 272.6  | 268.8  | 250.0  | 259.4  | 317.7  | 394.8  | 996.4  | 872.3  | 708.8  | 731.3  |
| 103.4   | 85°   | 127.8  | 157.9  | 135.4  | 129.7  | 178.6  | 462.5  | 665.5  | 498.2  | 330.9  | 323.4  |
| 22.6    | 87.5° | 33.8   | 30.1   | 30.1   | 33.8   | 75.2   | 398.6  | 265.1  | 212.4  | 126.0  | 122.2  |
| 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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