

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: P956440

Luminaire Tested: **GALN-SB9A-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

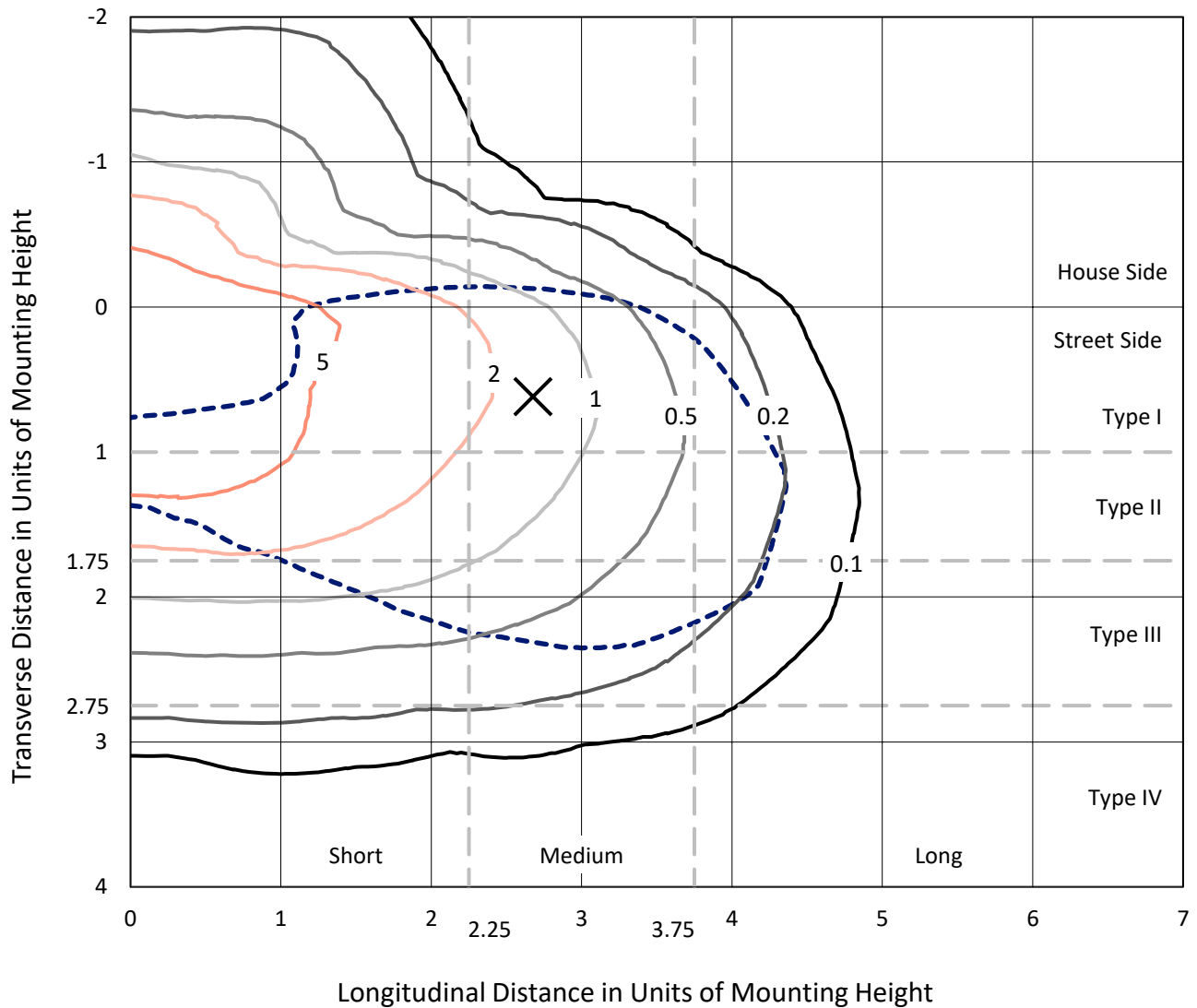
Lumens per Lamp: N/A  
Luminaire Lumens: 37689 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

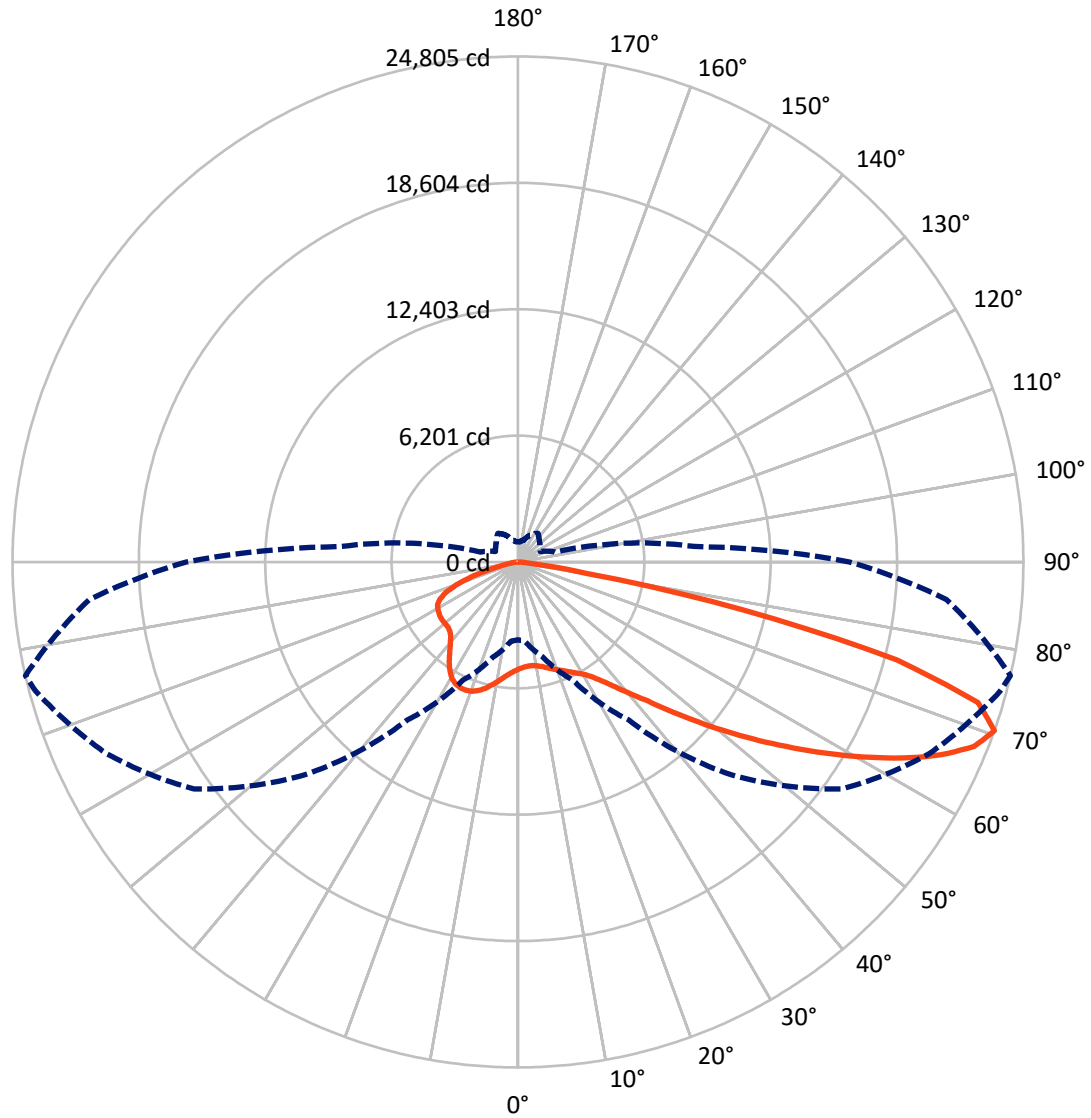
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8253.3   | 0.0    | 8253.3  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 29435.7  | 0.0    | 29435.7 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 37689.0  | 0.0    | 37689.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 501.5   | 1.3       |
| 10°-20°   | 1447.3  | 3.8       |
| 20°-30°   | 2475.1  | 6.6       |
| 30°-40°   | 3980.1  | 10.6      |
| 40°-50°   | 6214.1  | 16.5      |
| 50°-60°   | 8300.5  | 22.0      |
| 60°-70°   | 8847.1  | 23.5      |
| 70°-80°   | 5446.2  | 14.5      |
| 80°-90°   | 477.2   | 1.3       |
| 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°    | 37689.0 | 100.0     |
| 0°-180°   | 37689.0 | 100.0     |



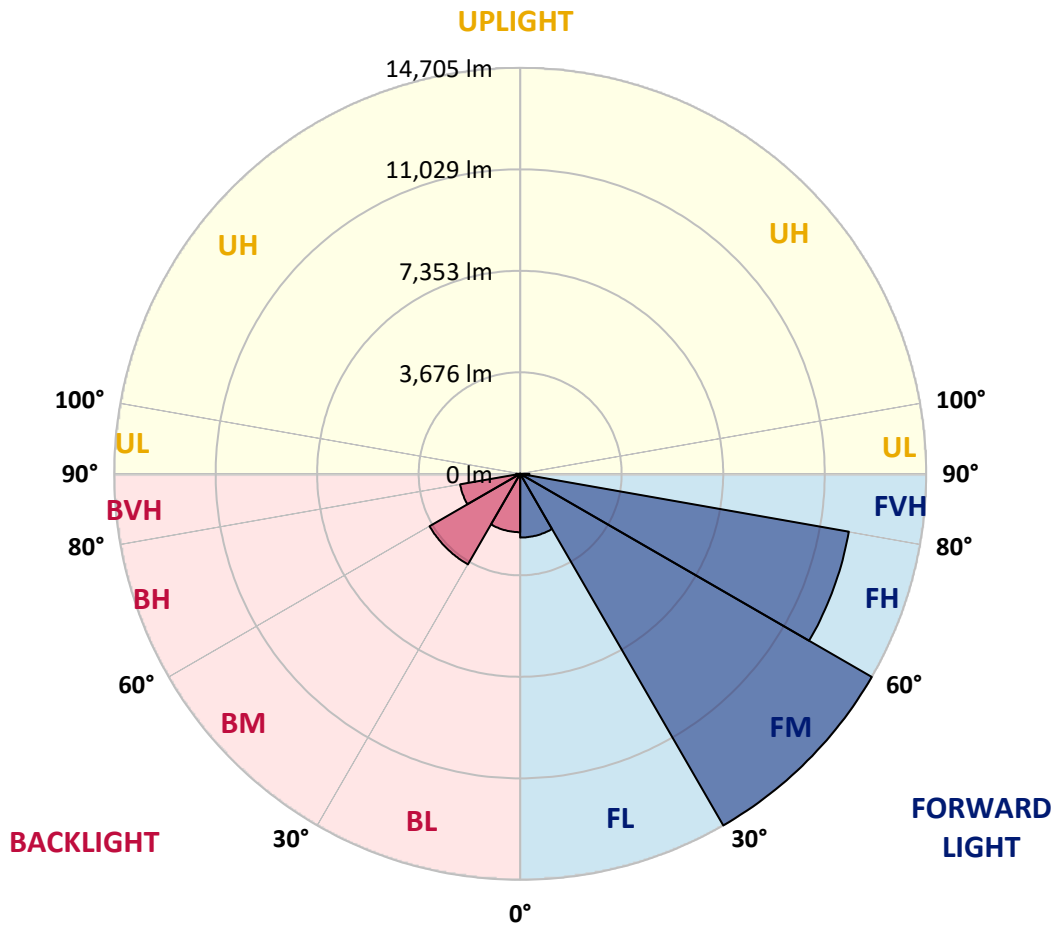
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2309.1  | 6.1       |                         |      |         |
| FM (30°-60°)   | 14705.4 | 39.0      |                         |      |         |
| FH (60°-80°)   | 12087.5 | 32.1      |                         |      | G5      |
| FVH (80°-90°)  | 333.7   | 0.9       |                         |      | G3/500  |
| BL (0°-30°)    | 2114.8  | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 3789.3  | 10.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2205.8  | 5.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 143.5   | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  | 5258.0  |
| 2.5°  | 4846.8  | 4844.9  | 4870.0  | 4877.7  | 4924.0  | 4956.8  | 5018.6  | 5084.2  | 5169.2  | 5178.8  |
| 5°    | 4566.9  | 4566.9  | 4595.9  | 4626.8  | 4686.6  | 4752.2  | 4846.8  | 4960.7  | 5107.4  | 5130.6  |
| 7.5°  | 4329.5  | 4345.0  | 4370.1  | 4429.9  | 4499.4  | 4594.0  | 4738.7  | 4900.9  | 5093.9  | 5130.6  |
| 10°   | 4138.4  | 4155.8  | 4186.7  | 4234.9  | 4339.2  | 4470.4  | 4659.6  | 4868.1  | 5126.7  | 5184.6  |
| 12.5° | 4078.6  | 4096.0  | 4113.3  | 4150.0  | 4246.5  | 4400.9  | 4626.8  | 4883.5  | 5205.8  | 5263.8  |
| 15°   | 4217.6  | 4238.8  | 4225.3  | 4215.6  | 4265.8  | 4406.7  | 4642.2  | 4939.5  | 5304.3  | 5387.3  |
| 17.5° | 4538.0  | 4545.7  | 4514.8  | 4424.1  | 4416.4  | 4491.7  | 4715.6  | 5016.7  | 5427.8  | 5518.5  |
| 20°   | 5055.3  | 5041.8  | 4978.1  | 4798.6  | 4696.3  | 4680.8  | 4841.0  | 5132.5  | 5555.2  | 5651.7  |
| 22.5° | 5757.9  | 5742.4  | 5615.1  | 5331.3  | 5103.5  | 4953.0  | 5022.5  | 5283.1  | 5698.1  | 5806.1  |
| 25°   | 6634.2  | 6613.0  | 6425.8  | 6039.7  | 5686.5  | 5313.9  | 5269.5  | 5481.9  | 5873.7  | 5974.1  |
| 27.5° | 7657.2  | 7639.9  | 7437.2  | 6927.6  | 6418.0  | 5808.1  | 5576.4  | 5715.4  | 6057.1  | 6171.0  |
| 30°   | 8757.5  | 8807.7  | 8448.6  | 7900.5  | 7255.8  | 6452.8  | 5989.5  | 6003.0  | 6294.5  | 6396.8  |
| 32.5° | 10050.7 | 10137.6 | 9705.2  | 9010.3  | 8130.1  | 7153.4  | 6510.7  | 6404.5  | 6640.0  | 6724.9  |
| 35°   | 11332.4 | 11430.8 | 11071.8 | 10303.6 | 9290.2  | 7979.6  | 7055.0  | 6865.8  | 7099.4  | 7192.1  |
| 37.5° | 12440.4 | 12571.6 | 12386.3 | 11718.5 | 10531.4 | 8975.6  | 7765.3  | 7408.2  | 7665.0  | 7780.8  |
| 40°   | 13314.8 | 13515.5 | 13502.0 | 13085.1 | 11994.5 | 10183.9 | 8666.8  | 8078.0  | 8367.6  | 8493.0  |
| 42.5° | 14025.1 | 14198.8 | 14349.4 | 14328.1 | 13521.3 | 11556.3 | 9726.5  | 8948.6  | 9168.6  | 9313.4  |
| 45°   | 14515.4 | 14700.7 | 15024.9 | 15374.3 | 14990.2 | 13025.2 | 10940.6 | 9981.2  | 10182.0 | 10400.1 |
| 47.5° | 14953.5 | 15163.9 | 15584.7 | 16138.7 | 16237.1 | 14499.9 | 12270.5 | 11183.8 | 11367.2 | 11593.0 |
| 50°   | 14992.1 | 15173.6 | 15826.0 | 16611.6 | 17123.1 | 15916.7 | 13698.9 | 12533.0 | 12704.8 | 12946.1 |
| 52.5° | 14059.8 | 14345.5 | 15484.3 | 16598.1 | 17530.4 | 17101.9 | 15117.6 | 13936.3 | 14129.3 | 14418.9 |
| 55°   | 10913.5 | 11332.4 | 14482.6 | 16080.8 | 17385.6 | 17868.2 | 16466.8 | 15428.4 | 15675.4 | 15978.5 |
| 57.5° | 9400.2  | 9583.6  | 11496.5 | 15138.8 | 16725.5 | 18067.0 | 17605.7 | 16935.9 | 17333.5 | 17665.5 |
| 60°   | 8448.6  | 8601.1  | 9732.2  | 13673.8 | 15856.9 | 17752.4 | 18485.9 | 18341.1 | 19028.3 | 19424.0 |
| 62.5° | 7429.5  | 7574.2  | 8603.1  | 11417.3 | 14745.1 | 17229.3 | 19041.8 | 19638.2 | 20765.5 | 21197.8 |
| 65°   | 6418.0  | 6541.6  | 7527.9  | 9593.3  | 13332.1 | 16706.2 | 19329.4 | 20759.7 | 22373.4 | 22821.2 |
| 67.5° | 5290.8  | 5393.1  | 6325.4  | 8093.5  | 11614.2 | 15990.1 | 19472.2 | 21641.8 | 23772.8 | 24156.9 |
| 70°   | 3818.0  | 3897.1  | 4860.3  | 6400.7  | 9458.2  | 14758.6 | 19414.3 | 22267.2 | 24498.5 | 24805.4 |
| 72.5° | 1804.8  | 1876.2  | 3007.3  | 4155.8  | 6680.5  | 12361.2 | 18242.6 | 21771.1 | 23761.2 | 23608.7 |
| 75°   | 963.2   | 1025.0  | 1727.6  | 2279.6  | 3528.5  | 8473.7  | 14928.4 | 18754.2 | 19952.8 | 19211.6 |
| 77.5° | 652.4   | 700.7   | 1069.4  | 1368.5  | 1611.7  | 4022.6  | 9595.2  | 12984.7 | 12492.5 | 11268.7 |
| 80°   | 517.3   | 567.5   | 876.3   | 926.5   | 779.8   | 1453.5  | 3964.7  | 6010.8  | 4317.9  | 3453.2  |
| 82.5° | 397.6   | 453.6   | 737.3   | 671.7   | 424.7   | 596.4   | 1154.3  | 1901.3  | 1106.0  | 841.6   |
| 85°   | 243.2   | 303.0   | 579.1   | 428.5   | 239.3   | 272.2   | 391.8   | 528.9   | 337.8   | 281.8   |
| 87.5° | 123.5   | 173.7   | 293.4   | 156.3   | 108.1   | 63.7    | 104.2   | 104.2   | 88.8    | 77.2    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5258.0  | 0°    | 5258.0  | 5258.0  | 5258.0 | 5258.0 | 5258.0 | 5258.0 | 5258.0 | 5258.0 | 5258.0 | 5258.0 |
| 5230.9  | 2.5°  | 5277.3  | 5315.9  | 5381.5 | 5443.3 | 5491.5 | 5537.8 | 5584.2 | 5609.3 | 5617.0 | 5647.9 |
| 5259.9  | 5°    | 5339.0  | 5410.4  | 5537.8 | 5657.5 | 5732.8 | 5779.1 | 5811.9 | 5831.2 | 5835.1 | 5844.8 |
| 5339.0  | 7.5°  | 5452.9  | 5566.8  | 5744.4 | 5864.1 | 5920.0 | 5916.2 | 5902.7 | 5854.4 | 5835.1 | 5817.7 |
| 5454.8  | 10°   | 5613.1  | 5763.7  | 5981.8 | 6064.8 | 6030.1 | 5937.4 | 5817.7 | 5676.8 | 5611.2 | 5547.5 |
| 5613.1  | 12.5° | 5811.9  | 6003.0  | 6217.3 | 6213.4 | 6041.6 | 5804.2 | 5526.3 | 5310.1 | 5173.0 | 5074.6 |
| 5808.1  | 15°   | 6053.2  | 6273.3  | 6437.3 | 6306.1 | 5929.7 | 5503.1 | 5095.8 | 4814.0 | 4690.5 | 4582.4 |
| 6005.0  | 17.5° | 6302.2  | 6537.7  | 6613.0 | 6277.1 | 5647.9 | 5057.2 | 4595.9 | 4373.9 | 4252.3 | 4194.4 |
| 6217.3  | 20°   | 6545.4  | 6779.0  | 6717.2 | 6111.1 | 5219.4 | 4551.5 | 4140.4 | 4018.7 | 3993.7 | 4007.2 |
| 6423.8  | 22.5° | 6802.1  | 7010.6  | 6738.4 | 5790.7 | 4673.1 | 4034.2 | 3808.4 | 3812.2 | 3868.2 | 3908.7 |
| 6640.0  | 25°   | 7064.7  | 7205.6  | 6682.5 | 5327.4 | 4086.3 | 3653.9 | 3598.0 | 3659.7 | 3769.7 | 3848.9 |
| 6883.2  | 27.5° | 7317.5  | 7379.3  | 6560.9 | 4754.2 | 3582.5 | 3381.8 | 3391.4 | 3518.8 | 3684.8 | 3794.8 |
| 7178.5  | 30°   | 7603.2  | 7533.7  | 6327.3 | 4109.5 | 3233.1 | 3148.2 | 3229.3 | 3377.9 | 3543.9 | 3642.4 |
| 7551.1  | 32.5° | 7925.5  | 7666.9  | 5956.7 | 3513.0 | 2986.1 | 2961.0 | 3094.2 | 3190.7 | 3264.0 | 3293.0 |
| 8045.2  | 35°   | 8327.0  | 7854.1  | 5481.9 | 3094.2 | 2764.1 | 2823.9 | 2951.3 | 2903.1 | 2874.1 | 2858.7 |
| 8709.2  | 37.5° | 8848.2  | 8107.0  | 4926.0 | 2822.0 | 2584.6 | 2725.5 | 2777.6 | 2627.0 | 2513.2 | 2457.2 |
| 9514.1  | 40°   | 9475.5  | 8477.6  | 4391.3 | 2611.6 | 2470.7 | 2640.6 | 2549.8 | 2368.4 | 2223.6 | 2144.5 |
| 10419.4 | 42.5° | 10172.3 | 8865.6  | 3941.5 | 2453.3 | 2407.0 | 2571.1 | 2381.9 | 2165.7 | 1932.2 | 1907.1 |
| 11498.4 | 45°   | 10903.9 | 9265.1  | 3634.6 | 2331.7 | 2376.1 | 2511.2 | 2285.4 | 1936.0 | 1770.0 | 1872.3 |
| 12581.3 | 47.5° | 11635.5 | 9631.9  | 3449.3 | 2241.0 | 2360.7 | 2443.7 | 2200.5 | 1808.6 | 1690.9 | 1839.5 |
| 13741.3 | 50°   | 12450.0 | 9960.0  | 3366.3 | 2175.4 | 2343.3 | 2416.7 | 2073.1 | 1775.8 | 1607.9 | 1706.3 |
| 14941.9 | 52.5° | 13258.8 | 10214.8 | 3304.6 | 2109.7 | 2318.2 | 2395.4 | 2011.3 | 1737.2 | 1507.5 | 1513.3 |
| 16150.3 | 55°   | 14065.6 | 10380.8 | 3237.0 | 2022.9 | 2262.2 | 2349.1 | 2005.5 | 1694.7 | 1432.2 | 1405.2 |
| 17428.1 | 57.5° | 14926.5 | 10475.4 | 3154.0 | 1926.4 | 2165.7 | 2231.4 | 1999.7 | 1661.9 | 1409.1 | 1364.7 |
| 18734.9 | 60°   | 15802.8 | 10614.4 | 3045.9 | 1808.6 | 2036.4 | 2090.4 | 1986.2 | 1650.4 | 1395.6 | 1320.3 |
| 19966.3 | 62.5° | 16588.4 | 10662.6 | 2916.6 | 1696.7 | 1870.4 | 1951.5 | 1957.3 | 1640.7 | 1358.9 | 1229.6 |
| 20989.4 | 65°   | 17103.8 | 10454.2 | 2690.7 | 1569.3 | 1690.9 | 1808.6 | 1901.3 | 1607.9 | 1293.3 | 1163.9 |
| 21495.1 | 67.5° | 17082.6 | 9859.6  | 2337.5 | 1405.2 | 1517.2 | 1650.4 | 1820.2 | 1551.9 | 1214.1 | 1082.9 |
| 21112.9 | 70°   | 16287.3 | 8686.1  | 1889.7 | 1214.1 | 1326.1 | 1480.5 | 1716.0 | 1468.9 | 1119.5 | 994.1  |
| 18773.5 | 72.5° | 13969.1 | 6798.3  | 1372.4 | 990.2  | 1104.1 | 1304.8 | 1580.9 | 1368.5 | 1023.0 | 914.9  |
| 13874.5 | 75°   | 9979.3  | 4302.5  | 930.4  | 760.5  | 859.0  | 1106.0 | 1412.9 | 1250.8 | 934.2  | 918.8  |
| 6948.8  | 77.5° | 5097.7  | 2055.7  | 615.7  | 555.9  | 598.4  | 872.5  | 1187.1 | 1117.6 | 947.7  | 758.6  |
| 1976.6  | 80°   | 1658.1  | 758.6   | 388.0  | 378.3  | 397.6  | 581.0  | 918.8  | 916.9  | 718.0  | 515.4  |
| 478.7   | 82.5° | 528.9   | 326.2   | 252.9  | 243.2  | 233.6  | 364.8  | 640.8  | 725.8  | 484.5  | 326.2  |
| 171.8   | 85°   | 210.4   | 195.0   | 148.6  | 137.0  | 98.4   | 171.8  | 335.9  | 482.6  | 361.0  | 235.5  |
| 44.4    | 87.5° | 77.2    | 77.2    | 40.5   | 29.0   | 21.2   | 57.9   | 90.7   | 144.8  | 206.5  | 121.6  |
| 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>   |
|---------------|
| 5258.0        |
| 5665.2        |
| 5860.2        |
| 5821.6        |
| 5528.2        |
| 5051.4        |
| 4570.8        |
| 4211.8        |
| 4001.4        |
| 3918.4        |
| 3870.1        |
| 3821.9        |
| 3665.5        |
| 3308.4        |
| 2874.1        |
| 2470.7        |
| 2150.3        |
| 1932.2        |
| 1926.4        |
| 1909.0        |
| 1779.7        |
| 1553.8        |
| 1424.5        |
| 1370.5        |
| 1326.1        |
| 1229.6        |
| 1163.9        |
| 1088.7        |
| <i>1005.7</i> |
| 909.1         |
| 866.7         |
| 675.6         |
| 455.5         |
| 324.3         |
| 241.3         |
| 119.7         |
| 0.0           |

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