

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: P949027

Luminaire Tested: **GALN-SB3D-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949027  
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-SB3D-927-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

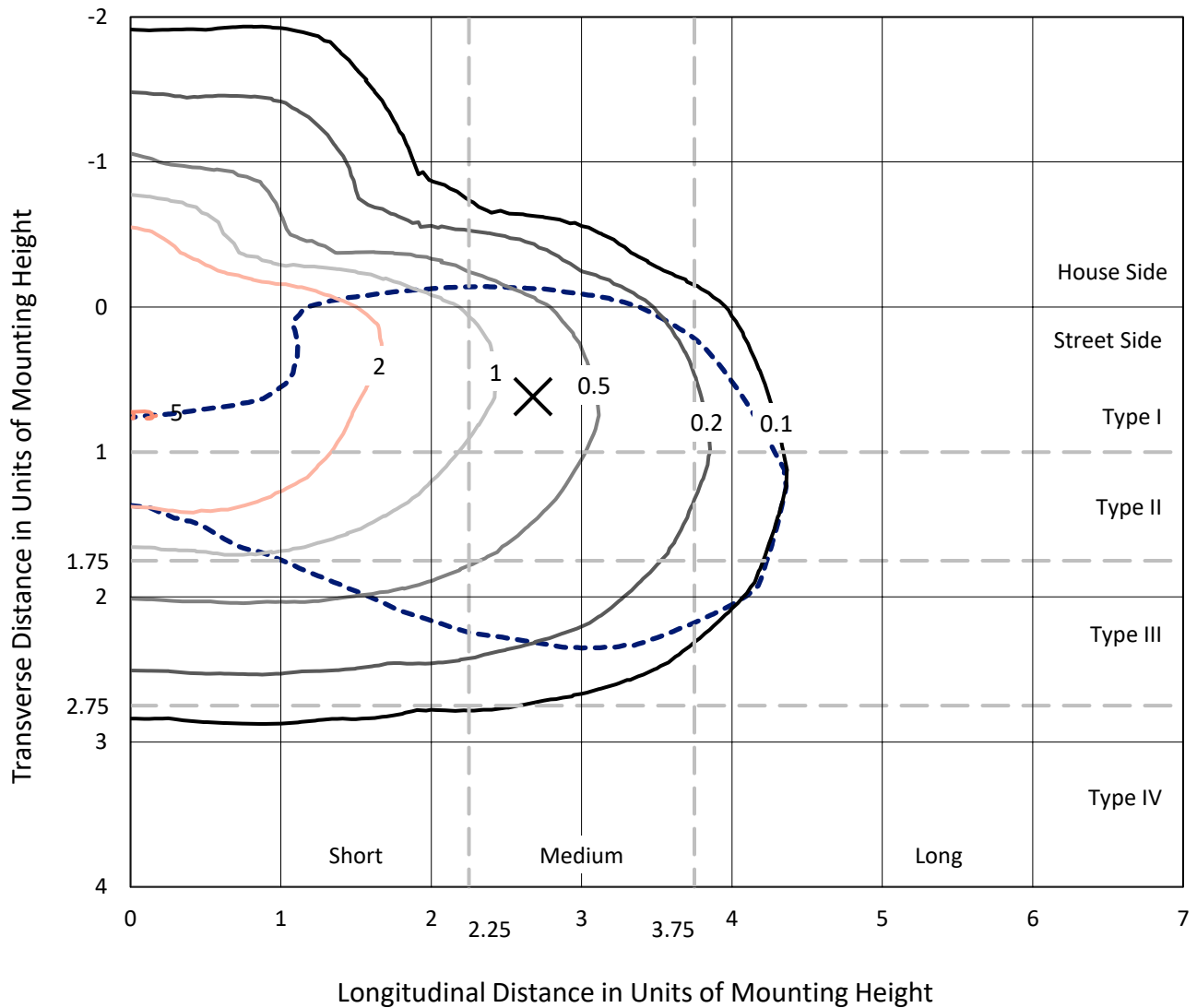
Lumens per Lamp: N/A  
Luminaire Lumens: 19079 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

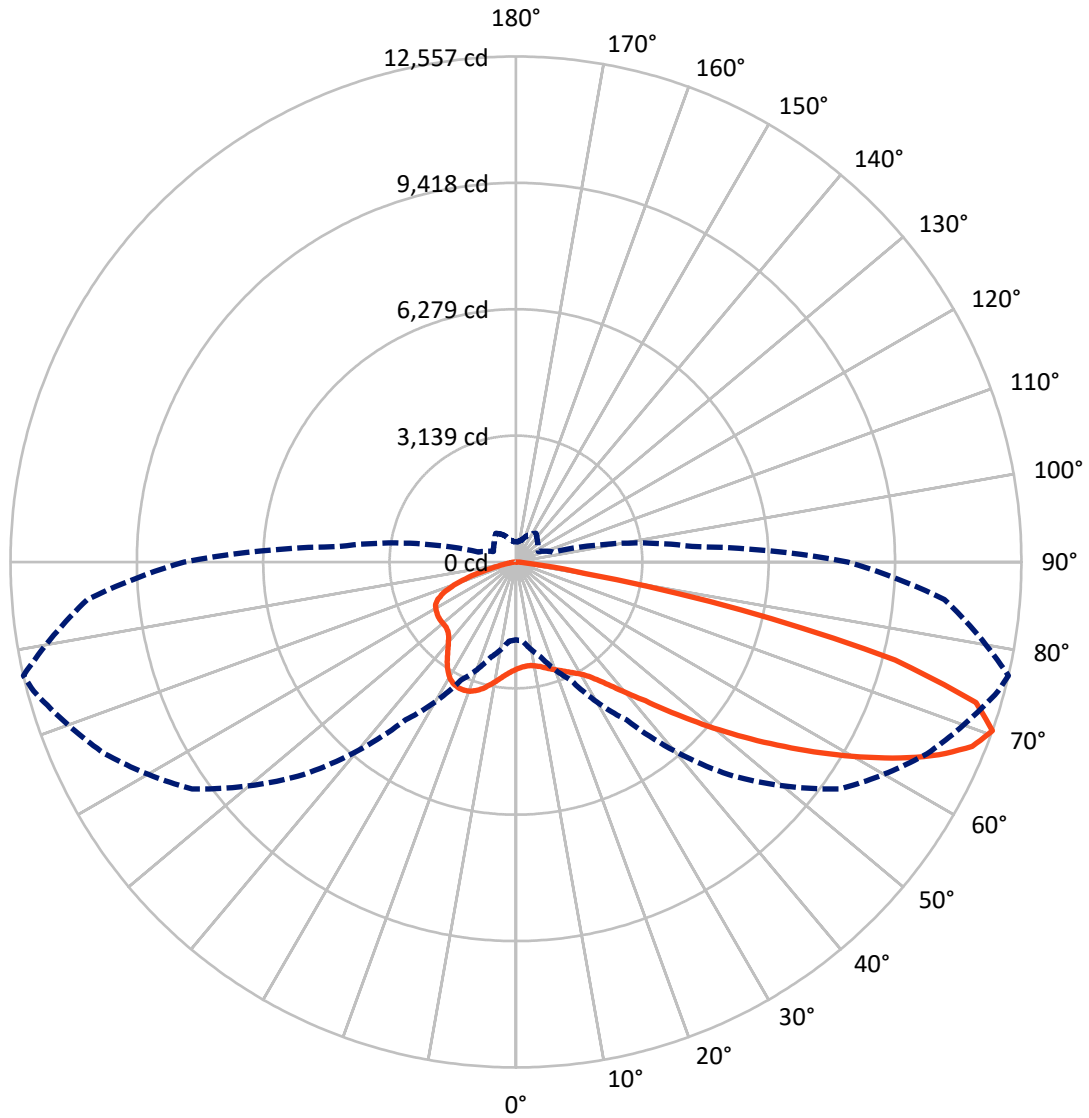
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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    | 4178.0   | 0.0    | 4178.0  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 14901.0  | 0.0    | 14901.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 19079.0  | 0.0    | 19079.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.9   | 1.3       |
| 10°-20°   | 732.6   | 3.8       |
| 20°-30°   | 1252.9  | 6.6       |
| 30°-40°   | 2014.8  | 10.6      |
| 40°-50°   | 3145.7  | 16.5      |
| 50°-60°   | 4201.9  | 22.0      |
| 60°-70°   | 4478.6  | 23.5      |
| 70°-80°   | 2757.0  | 14.5      |
| 80°-90°   | 241.6   | 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°    | 19079.0 | 100.0     |
| 0°-180°   | 19079.0 | 100.0     |

**Coefficient of Utilization**



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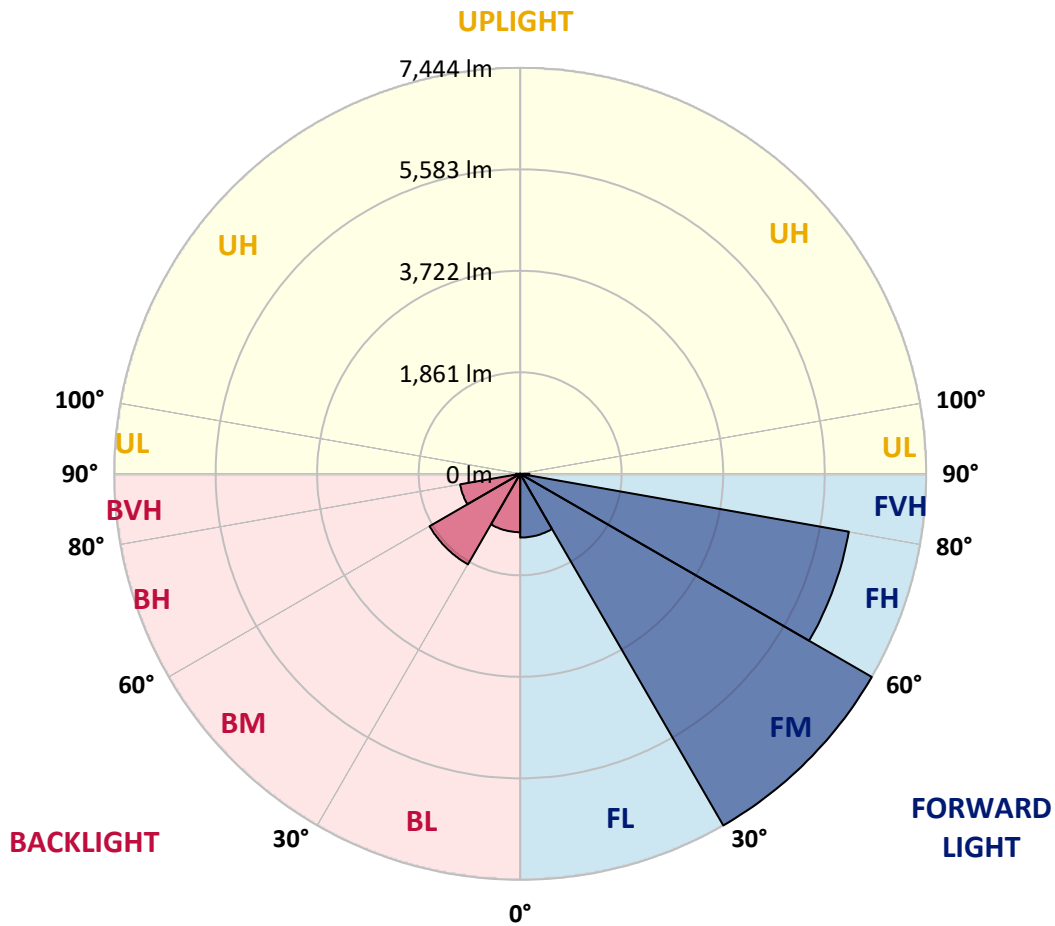
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1168.9 | 6.1       |                         |      |         |
| FM (30°-60°)   | 7444.2 | 39.0      |                         |      |         |
| FH (60°-80°)   | 6119.0 | 32.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 168.9  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 1070.5 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 1918.2 | 10.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1116.6 | 5.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 72.7   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7  | 2661.7  | 2661.7  |
| 2.5°  | 2453.6 | 2452.6 | 2465.3 | 2469.2 | 2492.7 | 2509.3 | 2540.5 | 2573.8  | 2616.7  | 2621.6  |
| 5°    | 2311.9 | 2311.9 | 2326.5 | 2342.2 | 2372.5 | 2405.7 | 2453.6 | 2511.2  | 2585.5  | 2597.2  |
| 7.5°  | 2191.7 | 2199.5 | 2212.2 | 2242.5 | 2277.7 | 2325.6 | 2398.8 | 2480.9  | 2578.6  | 2597.2  |
| 10°   | 2095.0 | 2103.8 | 2119.4 | 2143.8 | 2196.6 | 2263.0 | 2358.8 | 2464.3  | 2595.2  | 2624.6  |
| 12.5° | 2064.7 | 2073.5 | 2082.3 | 2100.8 | 2149.7 | 2227.9 | 2342.2 | 2472.1  | 2635.3  | 2664.6  |
| 15°   | 2135.0 | 2145.8 | 2138.9 | 2134.0 | 2159.5 | 2230.8 | 2350.0 | 2500.5  | 2685.1  | 2727.2  |
| 17.5° | 2297.2 | 2301.1 | 2285.5 | 2239.6 | 2235.7 | 2273.8 | 2387.1 | 2539.6  | 2747.7  | 2793.6  |
| 20°   | 2559.1 | 2552.3 | 2520.0 | 2429.1 | 2377.4 | 2369.5 | 2450.6 | 2598.2  | 2812.2  | 2861.0  |
| 22.5° | 2914.8 | 2907.0 | 2842.5 | 2698.8 | 2583.5 | 2507.3 | 2542.5 | 2674.4  | 2884.5  | 2939.2  |
| 25°   | 3358.4 | 3347.6 | 3252.9 | 3057.4 | 2878.6 | 2690.0 | 2667.6 | 2775.0  | 2973.4  | 3024.2  |
| 27.5° | 3876.3 | 3867.5 | 3764.9 | 3506.9 | 3248.9 | 2940.2 | 2822.9 | 2893.3  | 3066.2  | 3123.9  |
| 30°   | 4433.2 | 4458.6 | 4276.9 | 3999.4 | 3673.0 | 3266.5 | 3032.0 | 3038.9  | 3186.4  | 3238.2  |
| 32.5° | 5087.9 | 5131.9 | 4913.0 | 4561.2 | 4115.7 | 3621.2 | 3295.9 | 3242.1  | 3361.3  | 3404.3  |
| 35°   | 5736.7 | 5786.5 | 5604.8 | 5215.9 | 4702.9 | 4039.4 | 3571.4 | 3475.6  | 3593.9  | 3640.8  |
| 37.5° | 6297.6 | 6364.0 | 6270.2 | 5932.1 | 5331.2 | 4543.6 | 3931.0 | 3750.2  | 3880.2  | 3938.8  |
| 40°   | 6740.2 | 6841.8 | 6835.0 | 6623.9 | 6071.9 | 5155.3 | 4387.3 | 4089.3  | 4235.8  | 4299.4  |
| 42.5° | 7099.8 | 7187.7 | 7264.0 | 7253.2 | 6844.8 | 5850.1 | 4923.7 | 4530.0  | 4641.4  | 4714.6  |
| 45°   | 7348.0 | 7441.8 | 7606.0 | 7782.8 | 7588.4 | 6593.7 | 5538.4 | 5052.7  | 5154.3  | 5264.8  |
| 47.5° | 7569.8 | 7676.3 | 7889.3 | 8169.8 | 8219.6 | 7340.2 | 6211.6 | 5661.5  | 5754.3  | 5868.6  |
| 50°   | 7589.3 | 7681.2 | 8011.5 | 8409.2 | 8668.1 | 8057.4 | 6934.7 | 6344.5  | 6431.5  | 6553.6  |
| 52.5° | 7117.4 | 7262.0 | 7838.5 | 8402.3 | 8874.3 | 8657.3 | 7652.9 | 7054.9  | 7152.6  | 7299.1  |
| 55°   | 5524.7 | 5736.7 | 7331.4 | 8140.4 | 8801.0 | 9045.3 | 8335.9 | 7810.2  | 7935.3  | 8088.7  |
| 57.5° | 4758.6 | 4851.4 | 5819.8 | 7663.6 | 8466.8 | 9145.9 | 8912.4 | 8573.3  | 8774.6  | 8942.7  |
| 60°   | 4276.9 | 4354.1 | 4926.7 | 6922.0 | 8027.1 | 8986.6 | 9357.9 | 9284.7  | 9632.5  | 9832.8  |
| 62.5° | 3761.0 | 3834.2 | 4355.1 | 5779.7 | 7464.3 | 8721.8 | 9639.4 | 9941.3  | 10511.9 | 10730.8 |
| 65°   | 3248.9 | 3311.5 | 3810.8 | 4856.3 | 6749.0 | 8457.0 | 9785.0 | 10509.0 | 11325.9 | 11552.6 |
| 67.5° | 2678.3 | 2730.1 | 3202.0 | 4097.1 | 5879.4 | 8094.5 | 9857.3 | 10955.6 | 12034.3 | 12228.7 |
| 70°   | 1932.8 | 1972.8 | 2460.4 | 3240.2 | 4787.9 | 7471.1 | 9827.9 | 11272.1 | 12401.7 | 12557.1 |
| 72.5° | 913.6  | 949.8  | 1522.4 | 2103.8 | 3381.8 | 6257.5 | 9234.8 | 11021.0 | 12028.4 | 11951.2 |
| 75°   | 487.6  | 518.9  | 874.5  | 1154.0 | 1786.2 | 4289.6 | 7557.1 | 9493.8  | 10100.6 | 9725.3  |
| 77.5° | 330.3  | 354.7  | 541.3  | 692.8  | 815.9  | 2036.3 | 4857.3 | 6573.1  | 6324.0  | 5704.5  |
| 80°   | 261.9  | 287.3  | 443.6  | 469.0  | 394.8  | 735.8  | 2007.0 | 3042.8  | 2185.8  | 1748.1  |
| 82.5° | 201.3  | 229.6  | 373.3  | 340.0  | 215.0  | 301.9  | 584.3  | 962.5   | 559.9   | 426.0   |
| 85°   | 123.1  | 153.4  | 293.1  | 216.9  | 121.2  | 137.8  | 198.4  | 267.7   | 171.0   | 142.7   |
| 87.5° | 62.5   | 87.9   | 148.5  | 79.1   | 54.7   | 32.2   | 52.8   | 52.8    | 44.9    | 39.1    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2661.7  | 0°    | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 | 2661.7 |
| 2648.0  | 2.5°  | 2671.5 | 2691.0 | 2724.2 | 2755.5 | 2779.9 | 2803.4 | 2826.8 | 2839.5 | 2843.4 | 2859.1 |
| 2662.7  | 5°    | 2702.7 | 2738.9 | 2803.4 | 2864.0 | 2902.1 | 2925.5 | 2942.1 | 2951.9 | 2953.9 | 2958.7 |
| 2702.7  | 7.5°  | 2760.4 | 2818.0 | 2907.9 | 2968.5 | 2996.8 | 2994.9 | 2988.1 | 2963.6 | 2953.9 | 2945.1 |
| 2761.4  | 10°   | 2841.5 | 2917.7 | 3028.1 | 3070.1 | 3052.5 | 3005.6 | 2945.1 | 2873.7 | 2840.5 | 2808.3 |
| 2841.5  | 12.5° | 2942.1 | 3038.9 | 3147.3 | 3145.4 | 3058.4 | 2938.2 | 2797.5 | 2688.1 | 2618.7 | 2568.9 |
| 2940.2  | 15°   | 3064.3 | 3175.7 | 3258.7 | 3192.3 | 3001.7 | 2785.8 | 2579.6 | 2437.0 | 2374.4 | 2319.7 |
| 3039.8  | 17.5° | 3190.3 | 3309.5 | 3347.6 | 3177.6 | 2859.1 | 2560.1 | 2326.5 | 2214.2 | 2152.6 | 2123.3 |
| 3147.3  | 20°   | 3313.4 | 3431.7 | 3400.4 | 3093.6 | 2642.2 | 2304.1 | 2095.9 | 2034.4 | 2021.7 | 2028.5 |
| 3251.9  | 22.5° | 3443.4 | 3548.9 | 3411.2 | 2931.4 | 2365.6 | 2042.2 | 1927.9 | 1929.8 | 1958.2 | 1978.7 |
| 3361.3  | 25°   | 3576.3 | 3647.6 | 3382.8 | 2696.9 | 2068.6 | 1849.7 | 1821.4 | 1852.6 | 1908.3 | 1948.4 |
| 3484.4  | 27.5° | 3704.3 | 3735.6 | 3321.3 | 2406.7 | 1813.5 | 1711.9 | 1716.8 | 1781.3 | 1865.3 | 1921.0 |
| 3633.9  | 30°   | 3848.9 | 3813.7 | 3203.0 | 2080.3 | 1636.7 | 1593.7 | 1634.7 | 1710.0 | 1794.0 | 1843.8 |
| 3822.5  | 32.5° | 4012.1 | 3881.1 | 3015.4 | 1778.4 | 1511.6 | 1498.9 | 1566.3 | 1615.2 | 1652.3 | 1667.0 |
| 4072.7  | 35°   | 4215.3 | 3975.9 | 2775.0 | 1566.3 | 1399.2 | 1429.5 | 1494.0 | 1469.6 | 1454.9 | 1447.1 |
| 4408.8  | 37.5° | 4479.2 | 4103.9 | 2493.6 | 1428.6 | 1308.4 | 1379.7 | 1406.1 | 1329.9 | 1272.2 | 1243.9 |
| 4816.3  | 40°   | 4796.7 | 4291.5 | 2223.0 | 1322.1 | 1250.7 | 1336.7 | 1290.8 | 1198.9 | 1125.7 | 1085.6 |
| 5274.5  | 42.5° | 5149.5 | 4487.9 | 1995.3 | 1241.9 | 1218.5 | 1301.5 | 1205.8 | 1096.3 | 978.1  | 965.4  |
| 5820.7  | 45°   | 5519.8 | 4690.2 | 1839.9 | 1180.4 | 1202.8 | 1271.2 | 1156.9 | 980.1  | 896.0  | 947.8  |
| 6368.9  | 47.5° | 5890.1 | 4875.9 | 1746.1 | 1134.4 | 1195.0 | 1237.0 | 1113.9 | 915.6  | 856.0  | 931.2  |
| 6956.2  | 50°   | 6302.5 | 5042.0 | 1704.1 | 1101.2 | 1186.2 | 1223.4 | 1049.4 | 899.0  | 813.9  | 863.8  |
| 7563.9  | 52.5° | 6711.9 | 5171.0 | 1672.8 | 1068.0 | 1173.5 | 1212.6 | 1018.2 | 879.4  | 763.1  | 766.1  |
| 8175.6  | 55°   | 7120.3 | 5255.0 | 1638.6 | 1024.0 | 1145.2 | 1189.2 | 1015.2 | 857.9  | 725.0  | 711.3  |
| 8822.5  | 57.5° | 7556.1 | 5302.9 | 1596.6 | 975.2  | 1096.3 | 1129.6 | 1012.3 | 841.3  | 713.3  | 690.8  |
| 9484.0  | 60°   | 7999.7 | 5373.2 | 1541.9 | 915.6  | 1030.9 | 1058.2 | 1005.5 | 835.4  | 706.5  | 668.4  |
| 10107.4 | 62.5° | 8397.4 | 5397.7 | 1476.4 | 858.9  | 946.8  | 987.9  | 990.8  | 830.6  | 687.9  | 622.4  |
| 10625.3 | 65°   | 8658.3 | 5292.1 | 1362.1 | 794.4  | 856.0  | 915.6  | 962.5  | 813.9  | 654.7  | 589.2  |
| 10881.3 | 67.5° | 8647.6 | 4991.2 | 1183.3 | 711.3  | 768.0  | 835.4  | 921.4  | 785.6  | 614.6  | 548.2  |
| 10687.8 | 70°   | 8245.0 | 4397.1 | 956.6  | 614.6  | 671.3  | 749.5  | 868.7  | 743.6  | 566.7  | 503.2  |
| 9503.5  | 72.5° | 7071.5 | 3441.4 | 694.7  | 501.3  | 558.9  | 660.5  | 800.3  | 692.8  | 517.9  | 463.2  |
| 7023.6  | 75°   | 5051.7 | 2178.0 | 471.0  | 385.0  | 434.8  | 559.9  | 715.3  | 633.2  | 472.9  | 465.1  |
| 3517.7  | 77.5° | 2580.6 | 1040.6 | 311.7  | 281.4  | 302.9  | 441.7  | 600.9  | 565.8  | 479.8  | 384.0  |
| 1000.6  | 80°   | 839.4  | 384.0  | 196.4  | 191.5  | 201.3  | 294.1  | 465.1  | 464.1  | 363.5  | 260.9  |
| 242.3   | 82.5° | 267.7  | 165.1  | 128.0  | 123.1  | 118.2  | 184.7  | 324.4  | 367.4  | 245.3  | 165.1  |
| 87.0    | 85°   | 106.5  | 98.7   | 75.2   | 69.4   | 49.8   | 87.0   | 170.0  | 244.3  | 182.7  | 119.2  |
| 22.5    | 87.5° | 39.1   | 39.1   | 20.5   | 14.7   | 10.7   | 29.3   | 45.9   | 73.3   | 104.6  | 61.6   |
| 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> |
|-------------|
| 2661.7      |
| 2867.9      |
| 2966.6      |
| 2947.0      |
| 2798.5      |
| 2557.1      |
| 2313.8      |
| 2132.1      |
| 2025.6      |
| 1983.6      |
| 1959.1      |
| 1934.7      |
| 1855.6      |
| 1674.8      |
| 1454.9      |
| 1250.7      |
| 1088.5      |
| 978.1       |
| 975.2       |
| 966.4       |
| 900.9       |
| 786.6       |
| 721.1       |
| 693.8       |
| 671.3       |
| 622.4       |
| 589.2       |
| 551.1       |
| 509.1       |
| 460.2       |
| 438.7       |
| 342.0       |
| 230.6       |
| 164.2       |
| 122.1       |
| 60.6        |
| 0.0         |

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