

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: P951252

Luminaire Tested: **GALN-SB5B-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

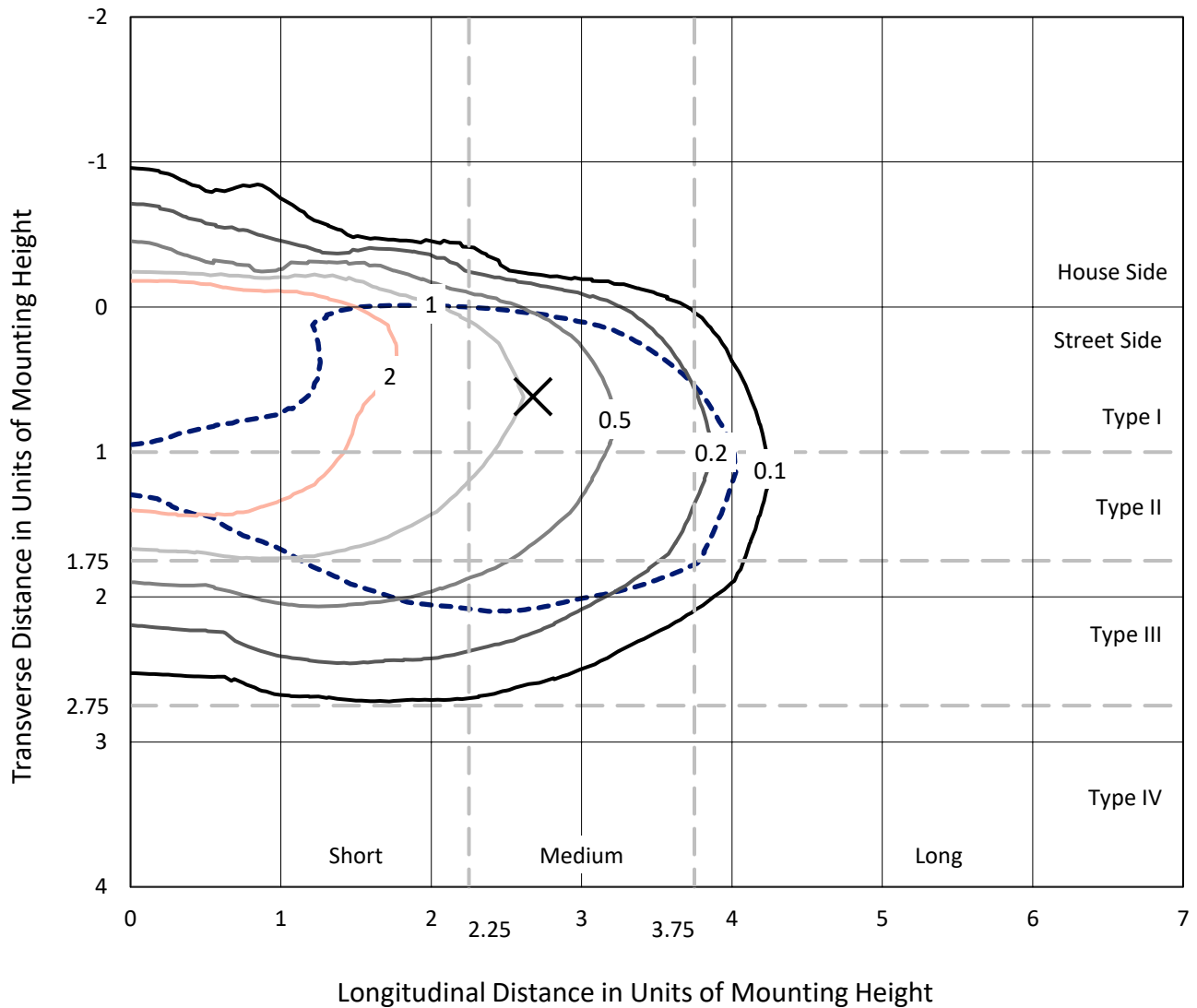
Lumens per Lamp: N/A  
Luminaire Lumens: 16474 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

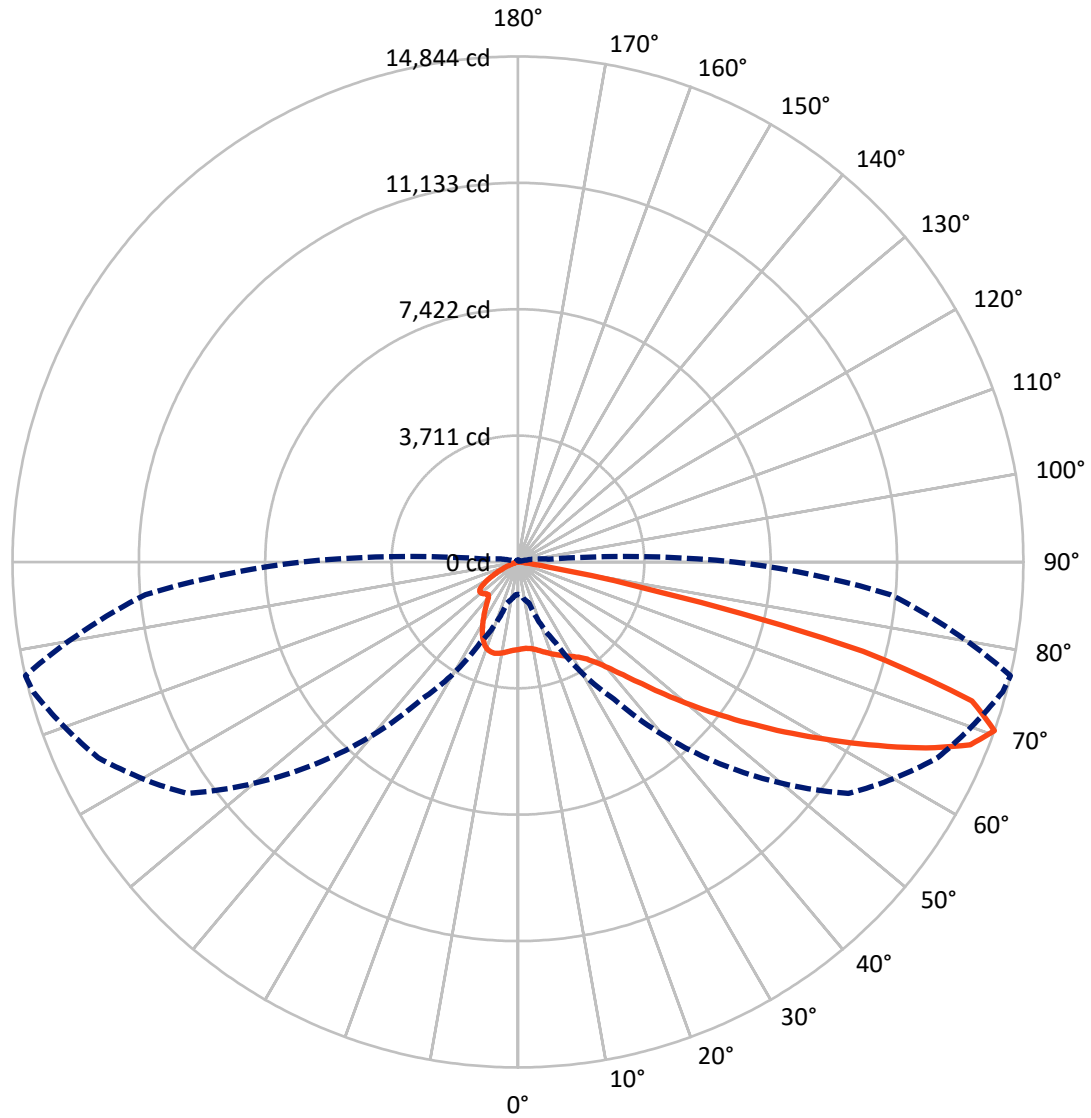
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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    | 1736.6   | 0.0    | 1736.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 14737.4  | 0.0    | 14737.4 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 16474.0  | 0.0    | 16474.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 221.5   | 1.3       |
| 10°-20°   | 525.7   | 3.2       |
| 20°-30°   | 813.2   | 4.9       |
| 30°-40°   | 1475.5  | 9.0       |
| 40°-50°   | 2785.2  | 16.9      |
| 50°-60°   | 4024.4  | 24.4      |
| 60°-70°   | 4283.9  | 26.0      |
| 70°-80°   | 2270.1  | 13.8      |
| 80°-90°   | 74.5    | 0.5       |
| 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°    | 16474.0 | 100.0     |
| 0°-180°   | 16474.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P951252

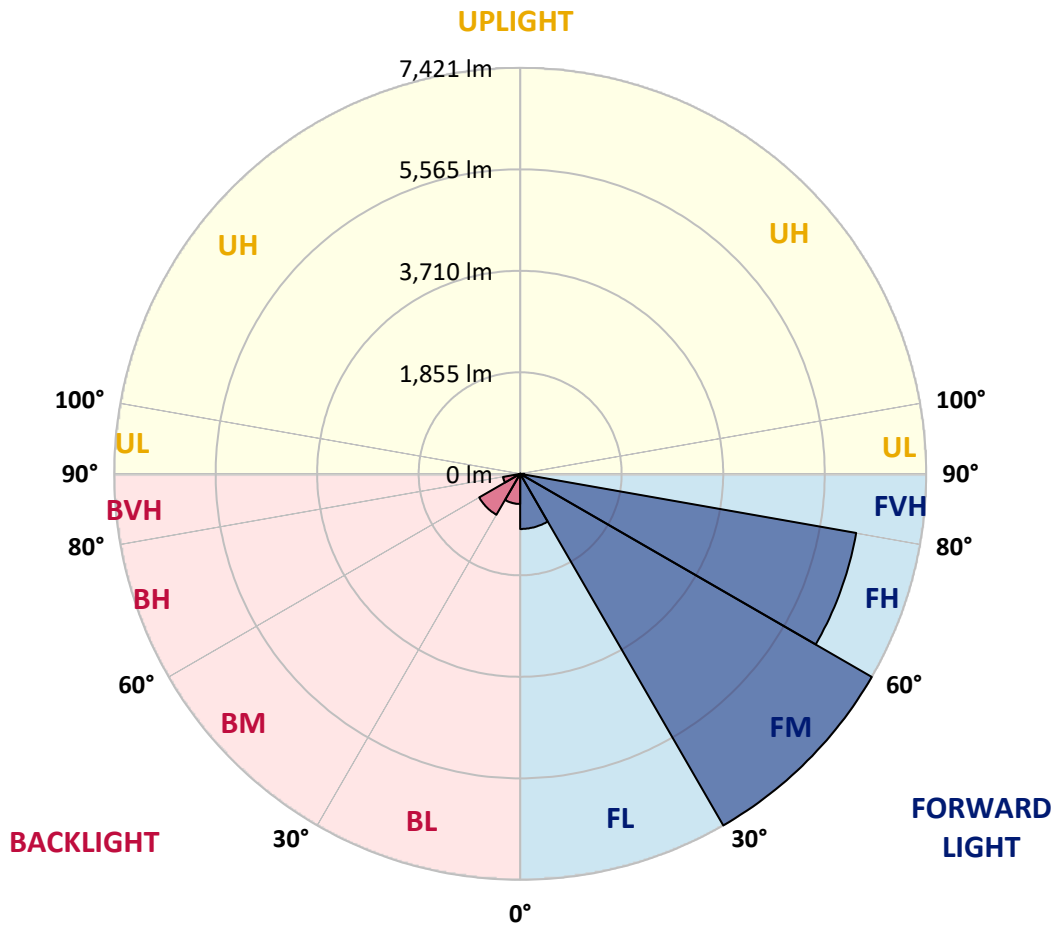
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1008.6 | 6.1       |                         |      |         |
| FM (30°-60°)   | 7420.6 | 45.0      |                         |      |         |
| FH (60°-80°)   | 6235.6 | 37.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 72.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 551.7  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 864.5  | 5.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 318.4  | 1.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium



REPORT NUMBER: P951252

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6  | 2569.6  | 2569.6  | 2569.6  |
| 2.5°  | 2412.6 | 2434.4 | 2431.3 | 2445.8 | 2451.0 | 2471.9 | 2492.7  | 2520.8  | 2552.0  | 2550.9  |
| 5°    | 2276.3 | 2298.1 | 2303.3 | 2323.1 | 2348.1 | 2380.3 | 2423.0  | 2479.1  | 2537.4  | 2546.8  |
| 7.5°  | 2115.0 | 2137.9 | 2151.4 | 2191.0 | 2236.7 | 2303.3 | 2373.0  | 2455.2  | 2552.0  | 2565.5  |
| 10°   | 1953.8 | 1974.6 | 1992.3 | 2048.4 | 2121.3 | 2220.1 | 2333.5  | 2452.1  | 2582.1  | 2601.9  |
| 12.5° | 1853.9 | 1873.7 | 1893.4 | 1942.3 | 2032.8 | 2153.5 | 2307.5  | 2466.7  | 2632.1  | 2660.2  |
| 15°   | 1818.5 | 1836.2 | 1851.8 | 1895.5 | 1979.8 | 2117.1 | 2302.3  | 2496.8  | 2695.5  | 2733.0  |
| 17.5° | 1823.7 | 1833.1 | 1843.5 | 1876.8 | 1959.0 | 2100.5 | 2311.6  | 2548.8  | 2770.4  | 2803.7  |
| 20°   | 1853.9 | 1859.1 | 1860.1 | 1883.0 | 1955.8 | 2098.4 | 2330.4  | 2598.8  | 2841.2  | 2885.9  |
| 22.5° | 1892.4 | 1894.5 | 1892.4 | 1908.0 | 1975.6 | 2114.0 | 2355.3  | 2659.1  | 2920.2  | 2961.9  |
| 25°   | 2072.4 | 2032.8 | 1982.9 | 1952.7 | 2008.9 | 2144.1 | 2392.8  | 2740.3  | 3006.6  | 3047.2  |
| 27.5° | 2631.0 | 2517.6 | 2338.7 | 2137.9 | 2077.6 | 2187.8 | 2444.8  | 2822.4  | 3094.0  | 3130.4  |
| 30°   | 3538.2 | 3389.4 | 3085.7 | 2633.1 | 2298.1 | 2279.4 | 2512.4  | 2904.6  | 3186.6  | 3226.1  |
| 32.5° | 4447.5 | 4411.1 | 4060.5 | 3434.2 | 2794.4 | 2483.3 | 2624.8  | 3016.0  | 3309.3  | 3340.5  |
| 35°   | 5367.1 | 5293.3 | 5006.1 | 4387.1 | 3559.0 | 2898.4 | 2812.0  | 3161.6  | 3470.6  | 3506.0  |
| 37.5° | 6071.4 | 6026.7 | 5848.8 | 5339.0 | 4466.2 | 3539.2 | 3132.5  | 3387.4  | 3704.7  | 3744.2  |
| 40°   | 6693.6 | 6672.8 | 6612.4 | 6276.4 | 5480.5 | 4377.8 | 3630.8  | 3736.9  | 4029.2  | 4076.1  |
| 42.5° | 7182.5 | 7231.4 | 7265.8 | 7172.1 | 6526.1 | 5334.9 | 4300.8  | 4228.0  | 4481.8  | 4529.7  |
| 45°   | 7682.9 | 7699.6 | 7837.9 | 7973.2 | 7564.3 | 6335.7 | 5056.1  | 4803.3  | 5044.6  | 5103.9  |
| 47.5° | 8004.4 | 8071.0 | 8314.4 | 8552.7 | 8437.2 | 7328.2 | 5867.5  | 5482.6  | 5696.9  | 5808.2  |
| 50°   | 8028.3 | 8154.2 | 8489.2 | 8904.3 | 9072.8 | 8272.8 | 6749.7  | 6256.6  | 6484.5  | 6607.2  |
| 52.5° | 7629.9 | 7825.5 | 8344.6 | 8952.1 | 9416.1 | 9072.8 | 7662.1  | 7030.6  | 7323.0  | 7483.2  |
| 55°   | 5849.8 | 6105.8 | 7800.5 | 8692.1 | 9429.7 | 9679.3 | 8550.6  | 7836.9  | 8257.2  | 8438.2  |
| 57.5° | 5096.6 | 5225.6 | 6132.8 | 8240.6 | 9178.9 | 9923.8 | 9353.7  | 8604.7  | 9273.6  | 9498.3  |
| 60°   | 4240.4 | 4410.0 | 5143.5 | 7501.9 | 8838.8 | 9947.8 | 10063.2 | 9595.1  | 10375.3 | 10628.1 |
| 62.5° | 2881.7 | 3065.9 | 3795.2 | 6232.7 | 8373.7 | 9936.3 | 10644.8 | 10614.6 | 11599.8 | 11871.4 |
| 65°   | 1785.2 | 1900.7 | 2381.3 | 5089.4 | 7723.5 | 9948.8 | 11253.4 | 11852.6 | 12891.9 | 13167.6 |
| 67.5° | 1410.7 | 1463.8 | 1714.5 | 3907.5 | 6603.1 | 9667.9 | 11860.9 | 13016.8 | 14108.1 | 14326.6 |
| 70°   | 947.8  | 980.0  | 1247.4 | 2619.6 | 4912.5 | 8371.6 | 11849.5 | 13601.4 | 14734.4 | 14843.6 |
| 72.5° | 499.4  | 524.3  | 729.3  | 1213.0 | 2967.1 | 5950.8 | 9988.3  | 12902.3 | 14111.2 | 13946.8 |
| 75°   | 249.7  | 291.3  | 491.0  | 615.9  | 1267.1 | 3318.7 | 6202.5  | 10172.5 | 11106.7 | 10470.0 |
| 77.5° | 189.3  | 228.9  | 405.7  | 405.7  | 441.1  | 1117.3 | 2626.9  | 5548.1  | 5117.4  | 4261.2  |
| 80°   | 120.7  | 156.1  | 354.8  | 306.9  | 184.1  | 284.0  | 684.5   | 1554.3  | 1087.2  | 827.1   |
| 82.5° | 70.7   | 102.0  | 295.5  | 202.9  | 103.0  | 105.1  | 193.5   | 330.8   | 281.9   | 219.5   |
| 85°   | 28.1   | 66.6   | 202.9  | 80.1   | 40.6   | 26.0   | 58.3    | 70.7    | 58.3    | 43.7    |
| 87.5° | 0.0    | 15.6   | 35.4   | 0.0    | 3.1    | 2.1    | 4.2     | 5.2     | 5.2     | 4.2     |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P951252  
 CATALOG NUMBER: GALN-SB5B-950-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2569.6  | 0°    | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 |
| 2571.7  | 2.5°  | 2581.1 | 2583.2 | 2589.4 | 2590.5 | 2575.9 | 2557.2 | 2549.9 | 2546.8 | 2534.3 | 2533.2 |
| 2588.4  | 5°    | 2612.3 | 2621.7 | 2612.3 | 2585.3 | 2520.8 | 2430.2 | 2361.6 | 2305.4 | 2254.4 | 2238.8 |
| 2645.6  | 7.5°  | 2674.7 | 2684.1 | 2656.0 | 2549.9 | 2387.6 | 2207.6 | 2045.3 | 1930.9 | 1827.9 | 1789.4 |
| 2715.3  | 10°   | 2764.2 | 2776.7 | 2688.2 | 2473.9 | 2186.8 | 1897.6 | 1622.9 | 1429.4 | 1278.6 | 1217.2 |
| 2810.0  | 12.5° | 2876.5 | 2881.7 | 2705.9 | 2358.5 | 1925.7 | 1512.7 | 1123.6 | 916.5  | 782.3  | 732.4  |
| 2924.4  | 15°   | 3000.3 | 2993.1 | 2708.0 | 2201.4 | 1569.9 | 1069.5 | 733.4  | 602.4  | 548.3  | 531.6  |
| 3038.8  | 17.5° | 3130.4 | 3100.2 | 2666.4 | 1974.6 | 1179.7 | 731.4  | 544.1  | 512.9  | 503.5  | 499.4  |
| 3152.2  | 20°   | 3258.4 | 3190.7 | 2590.5 | 1678.1 | 846.8  | 546.2  | 494.2  | 484.8  | 479.6  | 477.5  |
| 3266.7  | 22.5° | 3374.9 | 3259.4 | 2460.4 | 1333.7 | 614.8  | 482.7  | 467.1  | 458.8  | 449.4  | 445.3  |
| 3378.0  | 25°   | 3488.3 | 3298.9 | 2277.3 | 1012.3 | 492.1  | 451.5  | 439.0  | 423.4  | 410.9  | 405.7  |
| 3497.6  | 27.5° | 3598.5 | 3323.9 | 2048.4 | 749.0  | 439.0  | 422.4  | 399.5  | 377.6  | 368.3  | 366.2  |
| 3625.6  | 30°   | 3716.1 | 3332.2 | 1788.3 | 558.7  | 406.8  | 386.0  | 352.7  | 327.7  | 322.5  | 323.5  |
| 3798.3  | 32.5° | 3859.7 | 3344.7 | 1526.2 | 457.8  | 379.7  | 342.3  | 302.7  | 276.7  | 272.6  | 276.7  |
| 4050.1  | 35°   | 4031.3 | 3369.7 | 1273.4 | 421.3  | 355.8  | 297.5  | 254.9  | 233.0  | 228.9  | 232.0  |
| 4372.6  | 37.5° | 4264.4 | 3410.2 | 1037.2 | 414.1  | 336.0  | 260.1  | 214.3  | 196.6  | 196.6  | 197.7  |
| 4767.9  | 40°   | 4574.4 | 3518.4 | 826.0  | 408.9  | 325.6  | 232.0  | 181.0  | 173.7  | 176.9  | 178.9  |
| 5271.4  | 42.5° | 4952.0 | 3748.4 | 683.5  | 402.6  | 314.2  | 219.5  | 164.4  | 161.3  | 166.5  | 168.5  |
| 5874.8  | 45°   | 5375.5 | 4039.7 | 633.6  | 392.2  | 303.8  | 227.8  | 157.1  | 152.9  | 159.2  | 160.2  |
| 6551.0  | 47.5° | 5813.4 | 4324.7 | 627.3  | 380.8  | 293.4  | 240.3  | 155.0  | 145.6  | 152.9  | 154.0  |
| 7273.0  | 50°   | 6256.6 | 4510.9 | 633.6  | 363.1  | 276.7  | 240.3  | 156.1  | 138.4  | 144.6  | 147.7  |
| 8022.1  | 52.5° | 6702.9 | 4596.2 | 629.4  | 324.6  | 247.6  | 225.8  | 156.1  | 132.1  | 138.4  | 140.4  |
| 8831.5  | 55°   | 7135.7 | 4579.6 | 565.9  | 267.4  | 210.1  | 199.7  | 151.9  | 126.9  | 131.1  | 132.1  |
| 9596.1  | 57.5° | 7478.0 | 4347.6 | 448.4  | 208.1  | 170.6  | 166.5  | 138.4  | 120.7  | 123.8  | 122.8  |
| 10297.3 | 60°   | 7656.9 | 3837.8 | 320.4  | 160.2  | 134.2  | 131.1  | 121.7  | 112.4  | 114.4  | 109.2  |
| 10891.3 | 62.5° | 7659.0 | 3163.7 | 214.3  | 126.9  | 107.2  | 104.0  | 104.0  | 100.9  | 98.8   | 88.4   |
| 11351.2 | 65°   | 7495.7 | 2415.7 | 142.5  | 100.9  | 86.3   | 81.1   | 87.4   | 86.3   | 79.1   | 64.5   |
| 11491.6 | 67.5° | 7125.3 | 1583.4 | 108.2  | 79.1   | 66.6   | 63.5   | 69.7   | 72.8   | 67.6   | 54.1   |
| 10979.8 | 70°   | 6363.8 | 921.7  | 89.5   | 61.4   | 49.9   | 46.8   | 56.2   | 62.4   | 56.2   | 43.7   |
| 9384.9  | 72.5° | 5286.0 | 497.3  | 72.8   | 45.8   | 34.3   | 31.2   | 44.7   | 51.0   | 44.7   | 32.3   |
| 6021.5  | 75°   | 3430.0 | 266.3  | 56.2   | 30.2   | 17.7   | 19.8   | 33.3   | 37.5   | 31.2   | 20.8   |
| 1767.5  | 77.5° | 1151.7 | 117.6  | 35.4   | 14.6   | 8.3    | 8.3    | 19.8   | 22.9   | 14.6   | 7.3    |
| 321.5   | 80°   | 257.0  | 48.9   | 14.6   | 6.2    | 3.1    | 3.1    | 4.2    | 4.2    | 2.1    | 0.0    |
| 98.8    | 82.5° | 84.3   | 19.8   | 6.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 25.0    | 85°   | 32.3   | 7.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.3     | 87.5° | 12.5   | 1.0    | 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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| <u>180°</u> |
|-------------|
| 2569.6      |
| 2535.3      |
| 2229.5      |
| 1773.8      |
| 1191.2      |
| 716.8       |
| 531.6       |
| 498.3       |
| 475.4       |
| 444.2       |
| 403.7       |
| 364.1       |
| 323.5       |
| 275.7       |
| 231.0       |
| 196.6       |
| 178.9       |
| 168.5       |
| 161.3       |
| 155.0       |
| 148.8       |
| 140.4       |
| 132.1       |
| 122.8       |
| 108.2       |
| 85.3        |
| 62.4        |
| 53.1        |
| 41.6        |
| 31.2        |
| 18.7        |
| 6.2         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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