

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: P947652

Luminaire Tested: **GALN-SB2D-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

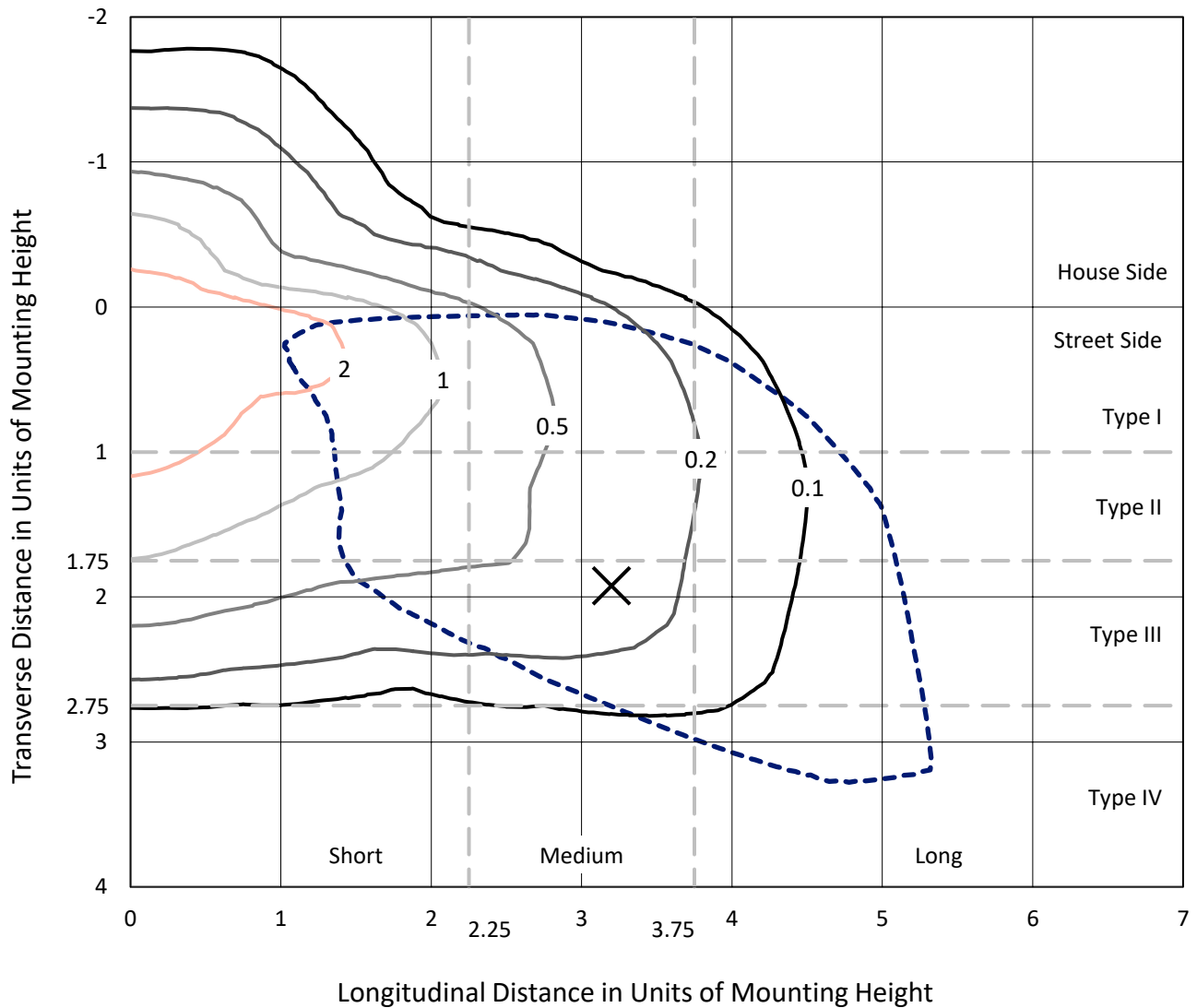
Lumens per Lamp: N/A  
Luminaire Lumens: 14412 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

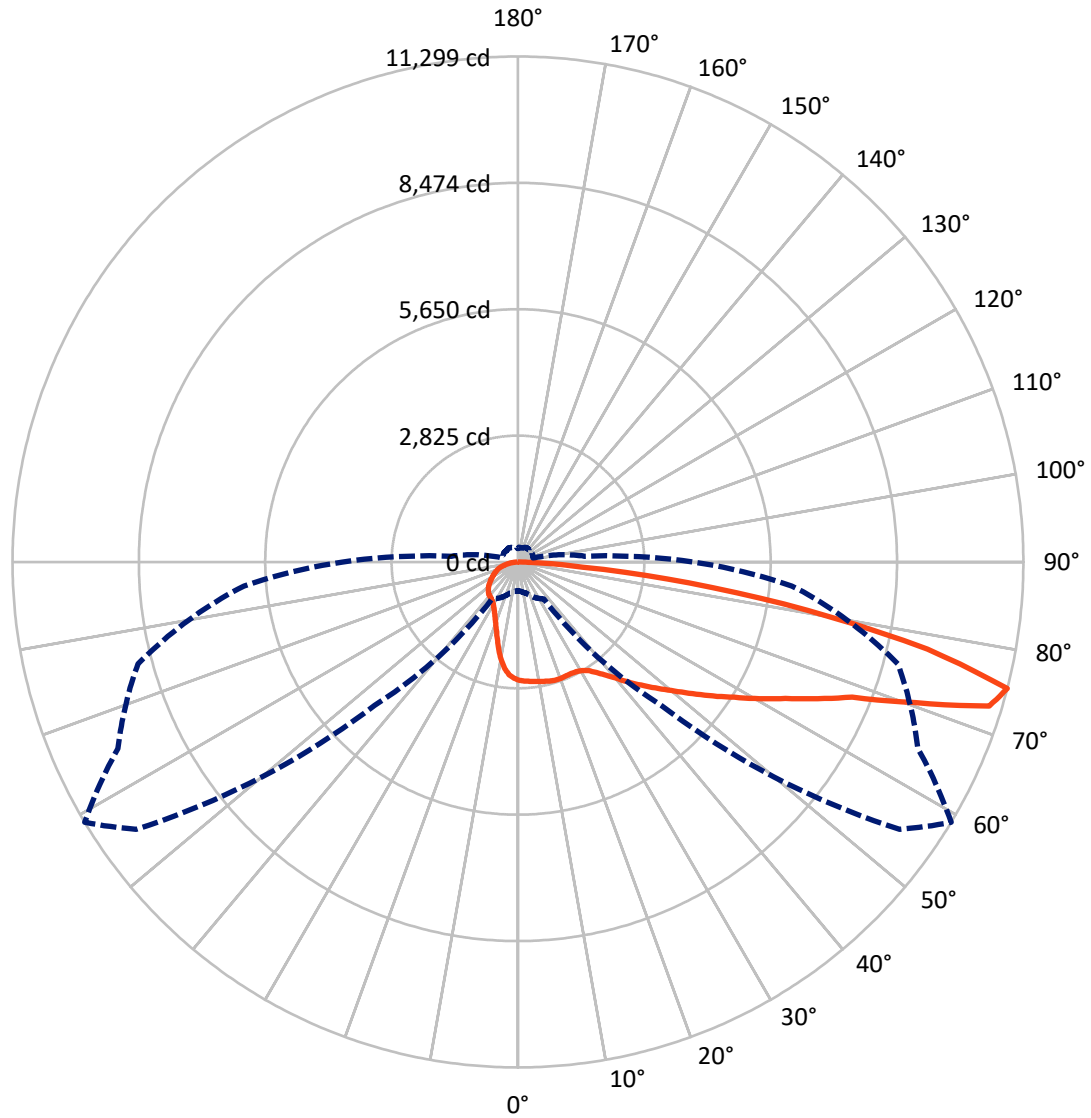
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2703.1   | 0.0    | 2703.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 11708.9  | 0.0    | 11708.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 14412.0  | 0.0    | 14412.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 237.2   | 1.6       |
| 10°-20°   | 606.3   | 4.2       |
| 20°-30°   | 920.9   | 6.4       |
| 30°-40°   | 1368.9  | 9.5       |
| 40°-50°   | 2035.8  | 14.1      |
| 50°-60°   | 2763.3  | 19.2      |
| 60°-70°   | 3373.5  | 23.4      |
| 70°-80°   | 2647.5  | 18.4      |
| 80°-90°   | 458.6   | 3.2       |
| 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°    | 14412.0 | 100.0     |
| 0°-180°   | 14412.0 | 100.0     |

**Coefficient of Utilization**



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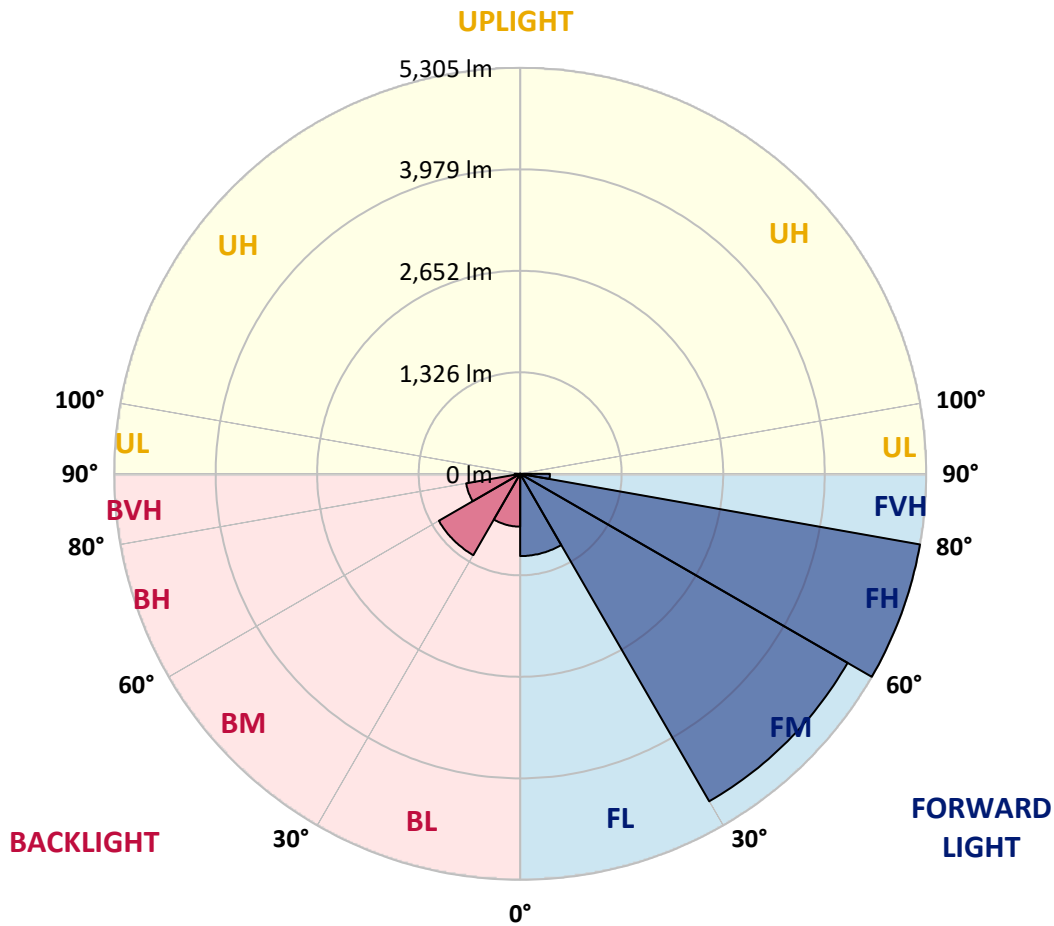
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1074.6 | 7.5       |                         |      |         |
| FM (30°-60°)   | 4941.0 | 34.3      |                         |      |         |
| FH (60°-80°)   | 5304.9 | 36.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 388.4  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 689.8  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1226.9 | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 716.2  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 70.2   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3  | 2645.3  | 2645.3 | 2645.3 |
| 2.5°  | 2667.8 | 2658.5 | 2667.8 | 2663.9 | 2662.3 | 2659.2 | 2660.0  | 2665.4  | 2662.3 | 2666.2 |
| 5°    | 2649.9 | 2644.5 | 2653.8 | 2651.5 | 2661.6 | 2663.1 | 2673.2  | 2679.4  | 2683.3 | 2684.1 |
| 7.5°  | 2620.5 | 2615.1 | 2628.2 | 2639.1 | 2660.8 | 2667.0 | 2687.9  | 2698.0  | 2703.4 | 2712.7 |
| 10°   | 2512.7 | 2510.4 | 2543.0 | 2584.0 | 2635.2 | 2667.0 | 2698.8  | 2715.8  | 2724.4 | 2749.2 |
| 12.5° | 2322.0 | 2325.1 | 2367.7 | 2446.8 | 2549.2 | 2651.5 | 2711.2  | 2736.0  | 2749.2 | 2780.2 |
| 15°   | 2139.8 | 2139.0 | 2185.5 | 2270.0 | 2413.5 | 2583.3 | 2717.4  | 2760.0  | 2782.5 | 2828.3 |
| 17.5° | 2034.4 | 2031.3 | 2063.8 | 2128.2 | 2261.5 | 2478.6 | 2701.9  | 2773.2  | 2821.3 | 2878.7 |
| 20°   | 2015.0 | 2008.8 | 2025.8 | 2057.6 | 2152.2 | 2363.9 | 2661.6  | 2773.2  | 2852.3 | 2926.7 |
| 22.5° | 2085.5 | 2075.5 | 2068.5 | 2064.6 | 2106.5 | 2269.3 | 2615.8  | 2763.9  | 2898.0 | 2995.7 |
| 25°   | 2227.4 | 2211.9 | 2176.2 | 2141.4 | 2128.9 | 2226.6 | 2575.5  | 2761.6  | 2966.3 | 3088.8 |
| 27.5° | 2456.9 | 2437.5 | 2365.4 | 2281.7 | 2206.5 | 2248.3 | 2557.7  | 2775.5  | 3041.5 | 3187.2 |
| 30°   | 2741.4 | 2720.5 | 2629.8 | 2501.1 | 2366.2 | 2329.0 | 2580.2  | 2816.6  | 3137.6 | 3318.2 |
| 32.5° | 2996.5 | 2973.2 | 2895.7 | 2764.7 | 2582.5 | 2468.5 | 2651.5  | 2894.9  | 3288.8 | 3500.4 |
| 35°   | 3222.9 | 3195.7 | 3126.0 | 3005.0 | 2847.6 | 2664.7 | 2780.2  | 3033.7  | 3503.5 | 3796.6 |
| 37.5° | 3444.6 | 3412.8 | 3336.8 | 3208.9 | 3098.8 | 2925.9 | 2957.7  | 3212.0  | 3788.8 | 4156.3 |
| 40°   | 3692.7 | 3647.0 | 3554.7 | 3428.3 | 3321.3 | 3232.2 | 3191.1  | 3430.7  | 4078.8 | 4557.9 |
| 42.5° | 3933.0 | 3889.6 | 3779.5 | 3671.8 | 3537.6 | 3512.1 | 3461.7  | 3686.5  | 4395.9 | 4999.1 |
| 45°   | 4192.0 | 4140.1 | 4006.7 | 3870.2 | 3785.7 | 3698.1 | 3723.7  | 3942.4  | 4706.8 | 5448.7 |
| 47.5° | 4434.7 | 4376.5 | 4219.1 | 4067.2 | 4020.7 | 3854.7 | 3964.1  | 4223.8  | 5030.1 | 5904.6 |
| 50°   | 4565.7 | 4508.3 | 4377.3 | 4240.1 | 4203.6 | 4047.8 | 4224.6  | 4533.1  | 5368.9 | 6358.9 |
| 52.5° | 4675.0 | 4613.0 | 4441.6 | 4365.7 | 4354.8 | 4257.9 | 4545.5  | 4886.7  | 5707.7 | 6760.5 |
| 55°   | 4791.3 | 4722.3 | 4503.7 | 4435.4 | 4485.1 | 4493.6 | 4926.2  | 5287.5  | 6065.9 | 7152.1 |
| 57.5° | 4925.4 | 4837.8 | 4563.4 | 4494.4 | 4612.2 | 4769.6 | 5363.5  | 5703.0  | 6417.9 | 7514.9 |
| 60°   | 5051.8 | 4963.4 | 4678.1 | 4588.2 | 4749.4 | 5089.8 | 5865.1  | 6206.2  | 6816.4 | 7838.2 |
| 62.5° | 5076.6 | 5003.7 | 4769.6 | 4768.8 | 4935.5 | 5463.5 | 6458.9  | 6714.0  | 7164.5 | 8157.6 |
| 65°   | 4647.1 | 4601.3 | 4462.6 | 4761.8 | 5202.2 | 6001.5 | 7120.3  | 7363.7  | 7607.1 | 8436.7 |
| 67.5° | 3536.9 | 3543.1 | 3533.0 | 4110.6 | 4986.7 | 6774.5 | 8077.7  | 8059.1  | 8153.7 | 8749.9 |
| 70°   | 1617.3 | 1653.7 | 1890.9 | 2837.6 | 3995.1 | 6863.6 | 9660.9  | 9419.8  | 8839.9 | 9155.4 |
| 72.5° | 873.8  | 901.7  | 998.6  | 1374.6 | 2401.8 | 6102.3 | 10844.0 | 11015.3 | 9752.4 | 9428.3 |
| 75°   | 641.2  | 656.7  | 724.1  | 873.8  | 1008.7 | 4535.4 | 10419.9 | 11299.1 | 9866.3 | 8791.8 |
| 77.5° | 479.9  | 486.9  | 541.9  | 692.3  | 516.3  | 2391.0 | 8325.8  | 9357.8  | 8446.0 | 7223.4 |
| 80°   | 348.1  | 355.9  | 396.9  | 519.4  | 362.1  | 874.5  | 5717.0  | 6568.3  | 5784.4 | 4604.4 |
| 82.5° | 240.3  | 243.4  | 261.3  | 353.5  | 252.7  | 339.6  | 3243.8  | 3851.6  | 3229.1 | 1615.7 |
| 85°   | 145.0  | 148.9  | 156.6  | 206.2  | 143.4  | 161.3  | 1400.2  | 1448.2  | 965.2  | 386.1  |
| 87.5° | 59.7   | 63.6   | 69.8   | 86.8   | 56.6   | 45.0   | 231.0   | 290.0   | 180.6  | 113.2  |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2645.3 | 0°    | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 | 2645.3 |
| 2653.0 | 2.5°  | 2649.2 | 2643.7 | 2629.0 | 2608.9 | 2590.2 | 2567.0 | 2556.9 | 2548.4 | 2540.6 | 2525.9 |
| 2674.0 | 5°    | 2665.4 | 2650.7 | 2611.2 | 2560.0 | 2501.9 | 2438.3 | 2376.3 | 2333.6 | 2297.2 | 2270.0 |
| 2698.0 | 7.5°  | 2690.3 | 2662.3 | 2590.2 | 2485.6 | 2352.2 | 2215.8 | 2092.5 | 2004.9 | 1939.0 | 1915.0 |
| 2732.1 | 10°   | 2715.8 | 2682.5 | 2556.9 | 2372.4 | 2142.1 | 1932.0 | 1768.4 | 1678.5 | 1625.8 | 1608.7 |
| 2772.4 | 12.5° | 2746.1 | 2697.2 | 2505.0 | 2215.0 | 1907.2 | 1677.0 | 1534.3 | 1481.6 | 1454.4 | 1445.1 |
| 2822.1 | 15°   | 2790.3 | 2709.6 | 2426.7 | 2018.1 | 1683.2 | 1490.9 | 1398.6 | 1362.2 | 1348.2 | 1347.5 |
| 2873.2 | 17.5° | 2823.6 | 2712.0 | 2304.9 | 1807.2 | 1511.0 | 1378.5 | 1302.5 | 1288.5 | 1297.8 | 1311.8 |
| 2923.6 | 20°   | 2860.8 | 2691.0 | 2145.2 | 1614.9 | 1390.1 | 1280.0 | 1248.2 | 1257.5 | 1280.0 | 1300.2 |
| 2990.3 | 22.5° | 2887.2 | 2653.0 | 1952.2 | 1465.3 | 1285.4 | 1223.4 | 1221.9 | 1241.2 | 1253.6 | 1263.7 |
| 3068.6 | 25°   | 2910.4 | 2588.7 | 1747.5 | 1339.7 | 1199.4 | 1189.3 | 1206.4 | 1200.1 | 1191.6 | 1200.1 |
| 3146.9 | 27.5° | 2927.5 | 2487.1 | 1564.5 | 1229.6 | 1138.9 | 1166.0 | 1156.0 | 1142.0 | 1141.2 | 1145.9 |
| 3239.2 | 30°   | 2922.1 | 2351.5 | 1414.1 | 1124.9 | 1096.3 | 1122.6 | 1098.6 | 1096.3 | 1093.9 | 1096.3 |
| 3377.9 | 32.5° | 2922.1 | 2197.2 | 1298.6 | 1052.8 | 1069.1 | 1059.0 | 1056.7 | 1051.3 | 1042.0 | 1041.2 |
| 3566.3 | 35°   | 2938.4 | 2042.9 | 1199.4 | 1014.1 | 1046.6 | 1022.6 | 1024.2 | 1011.0 | 991.6  | 982.3  |
| 3816.0 | 37.5° | 2971.7 | 1918.8 | 1100.9 | 995.5  | 1007.1 | 1006.3 | 1000.1 | 977.6  | 943.5  | 914.1  |
| 4127.6 | 40°   | 3052.3 | 1882.4 | 1033.5 | 986.9  | 988.5  | 997.8  | 981.5  | 938.1  | 860.6  | 812.5  |
| 4444.0 | 42.5° | 3178.7 | 1943.7 | 1018.7 | 966.0  | 976.1  | 985.4  | 953.6  | 852.8  | 797.8  | 769.1  |
| 4775.8 | 45°   | 3339.2 | 2050.6 | 1050.5 | 935.8  | 946.6  | 962.9  | 868.3  | 820.3  | 795.4  | 796.2  |
| 5104.5 | 47.5° | 3542.3 | 2163.1 | 1109.4 | 909.4  | 904.0  | 913.3  | 811.7  | 782.3  | 748.2  | 756.7  |
| 5420.1 | 50°   | 3777.2 | 2277.0 | 1165.3 | 873.8  | 856.7  | 826.5  | 775.3  | 747.4  | 704.0  | 683.8  |
| 5724.7 | 52.5° | 4031.5 | 2387.1 | 1187.7 | 830.3  | 805.5  | 770.6  | 750.5  | 716.4  | 663.6  | 630.3  |
| 6012.4 | 55°   | 4272.6 | 2487.1 | 1162.9 | 778.4  | 754.4  | 727.2  | 724.1  | 703.2  | 646.6  | 600.1  |
| 6268.2 | 57.5° | 4500.6 | 2570.9 | 1100.9 | 725.7  | 702.4  | 686.1  | 707.1  | 697.0  | 625.7  | 566.0  |
| 6510.1 | 60°   | 4693.6 | 2628.2 | 1011.0 | 672.2  | 655.9  | 647.4  | 679.2  | 676.1  | 596.2  | 529.5  |
| 6727.2 | 62.5° | 4847.1 | 2650.7 | 911.7  | 621.0  | 617.1  | 601.6  | 640.4  | 640.4  | 559.0  | 493.9  |
| 6917.9 | 65°   | 4967.3 | 2629.0 | 811.0  | 570.6  | 578.4  | 555.1  | 593.1  | 588.4  | 519.4  | 462.1  |
| 7137.3 | 67.5° | 5073.5 | 2557.7 | 699.3  | 521.0  | 538.8  | 509.4  | 543.5  | 532.6  | 476.0  | 430.3  |
| 7327.3 | 70°   | 5120.8 | 2391.8 | 572.2  | 471.4  | 493.1  | 464.4  | 493.9  | 473.7  | 427.2  | 396.2  |
| 7118.7 | 72.5° | 4740.9 | 1987.8 | 450.4  | 419.4  | 438.0  | 414.8  | 440.4  | 417.1  | 374.5  | 360.5  |
| 6147.3 | 75°   | 3922.2 | 1491.7 | 346.6  | 362.8  | 376.8  | 359.0  | 376.0  | 359.0  | 320.2  | 330.3  |
| 4540.9 | 77.5° | 2848.4 | 1007.1 | 265.1  | 303.1  | 309.3  | 300.0  | 314.8  | 295.4  | 260.5  | 258.2  |
| 2263.1 | 80°   | 1416.5 | 590.0  | 207.8  | 239.6  | 237.2  | 231.0  | 248.1  | 238.8  | 209.3  | 221.7  |
| 610.9  | 82.5° | 410.1  | 252.7  | 151.2  | 168.2  | 163.6  | 165.1  | 177.5  | 182.2  | 272.9  | 270.6  |
| 189.9  | 85°   | 128.7  | 99.2   | 90.7   | 93.8   | 89.2   | 91.5   | 104.7  | 207.8  | 192.3  | 112.4  |
| 58.9   | 87.5° | 33.3   | 34.1   | 22.5   | 24.0   | 24.8   | 29.5   | 33.3   | 126.4  | 60.5   | 39.5   |
| 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>  |
|--------------|
| 2645.3       |
| 2518.9       |
| 2247.6       |
| 1873.1       |
| 1582.4       |
| 1447.5       |
| 1350.6       |
| 1317.2       |
| 1307.1       |
| 1269.2       |
| 1205.6       |
| 1153.6       |
| 1104.8       |
| 1051.3       |
| 991.6        |
| 924.1        |
| 818.7        |
| 769.1        |
| 800.1        |
| 778.4        |
| 689.2        |
| 629.5        |
| 600.1        |
| 562.9        |
| 527.2        |
| 491.5        |
| 459.0        |
| 427.2        |
| 390.0        |
| 348.9        |
| <i>301.6</i> |
| 246.5        |
| 219.4        |
| 276.8        |
| 121.7        |
| 41.9         |
| 0.0          |

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