

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: P940715

Luminaire Tested: **GALN-SB3D-930-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-930-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21045 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

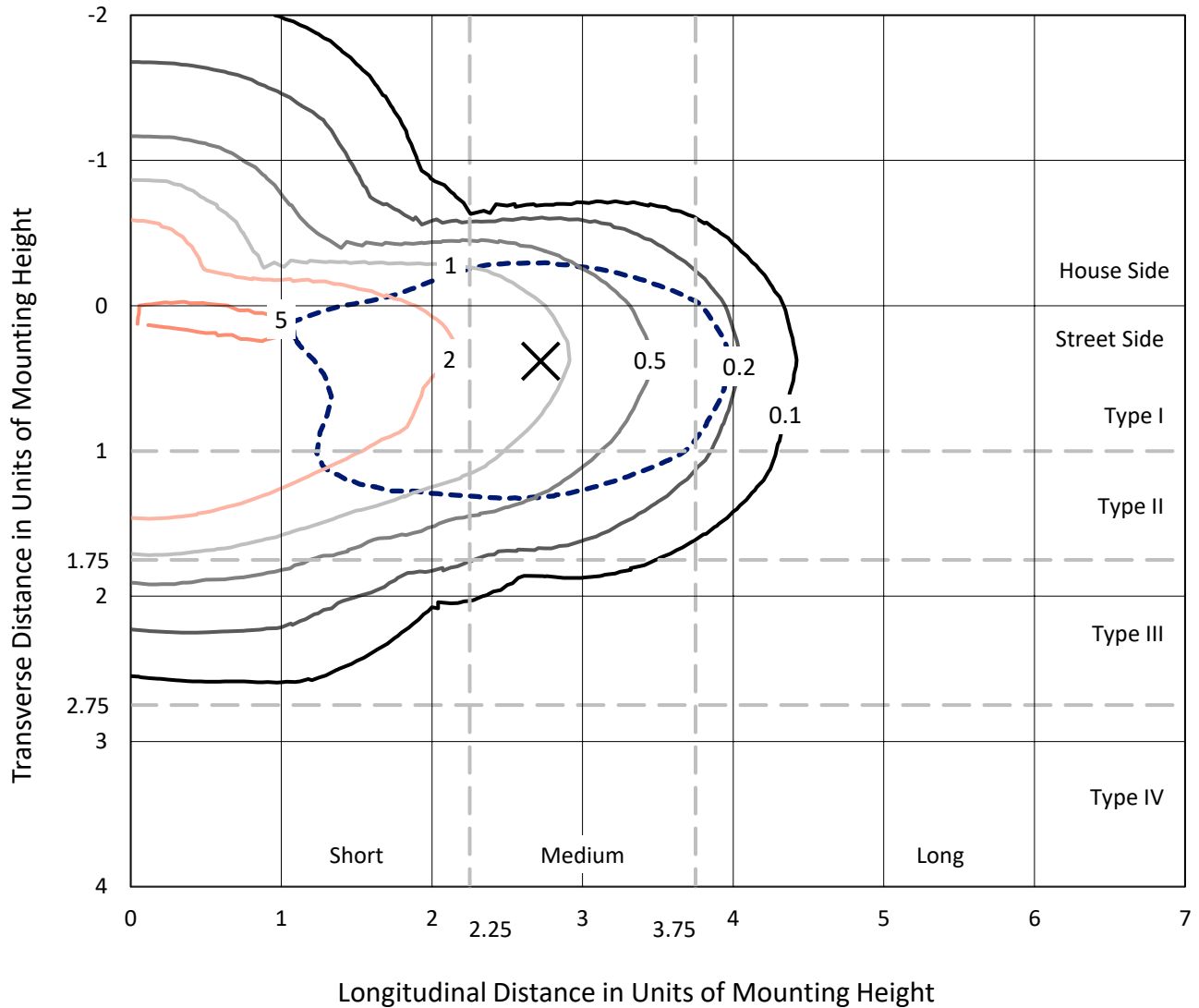
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

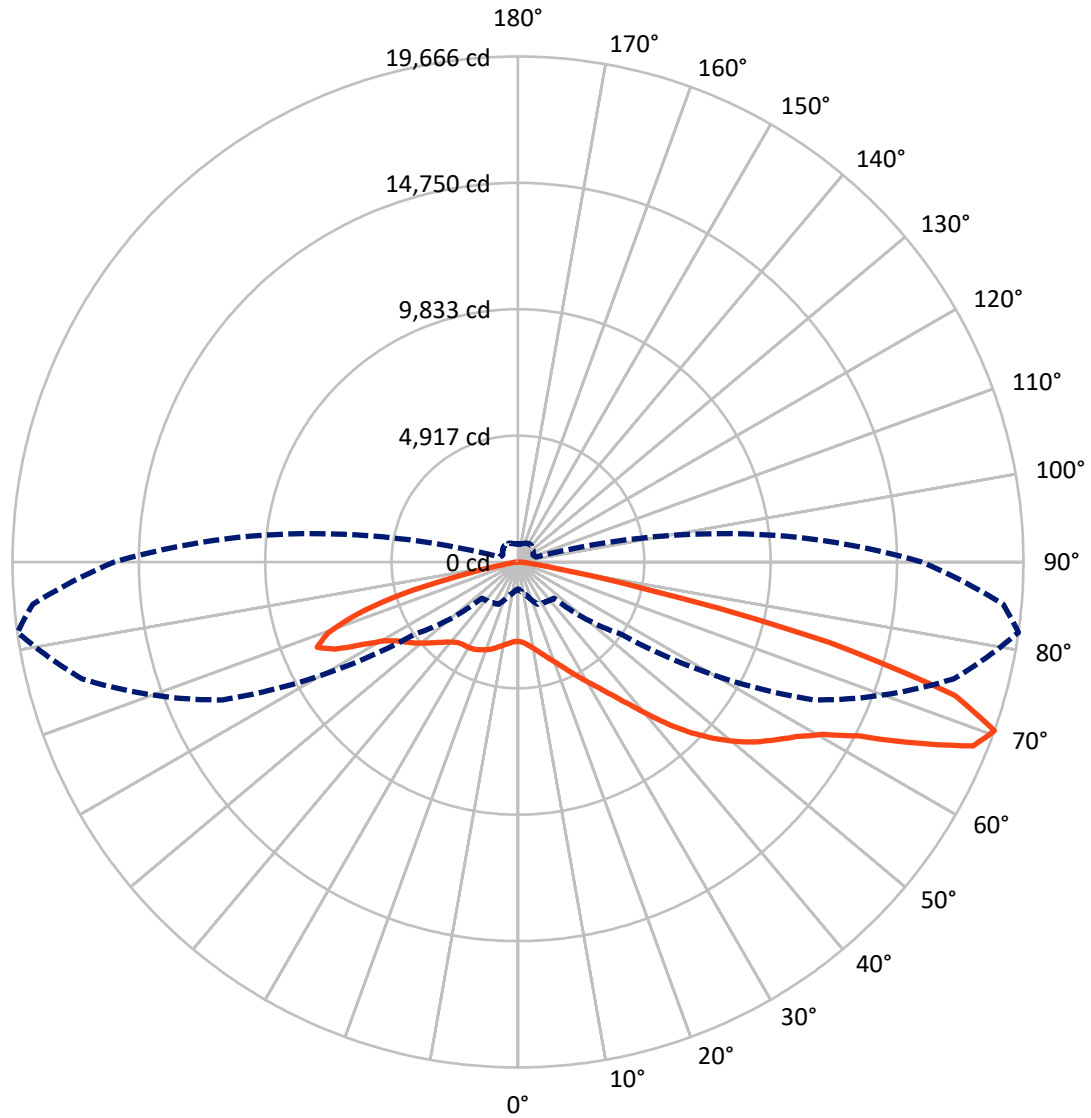
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5188.1   | 0.0    | 5188.1  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 15856.9  | 0.0    | 15856.9 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 21045.0  | 0.0    | 21045.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 291.3   | 1.4       |
| 10°-20°   | 837.0   | 4.0       |
| 20°-30°   | 1400.2  | 6.7       |
| 30°-40°   | 2187.5  | 10.4      |
| 40°-50°   | 3483.8  | 16.6      |
| 50°-60°   | 4848.1  | 23.0      |
| 60°-70°   | 5071.3  | 24.1      |
| 70°-80°   | 2650.6  | 12.6      |
| 80°-90°   | 275.2   | 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°    | 21045.0 | 100.0     |
| 0°-180°   | 21045.0 | 100.0     |

**Coefficient of Utilization**



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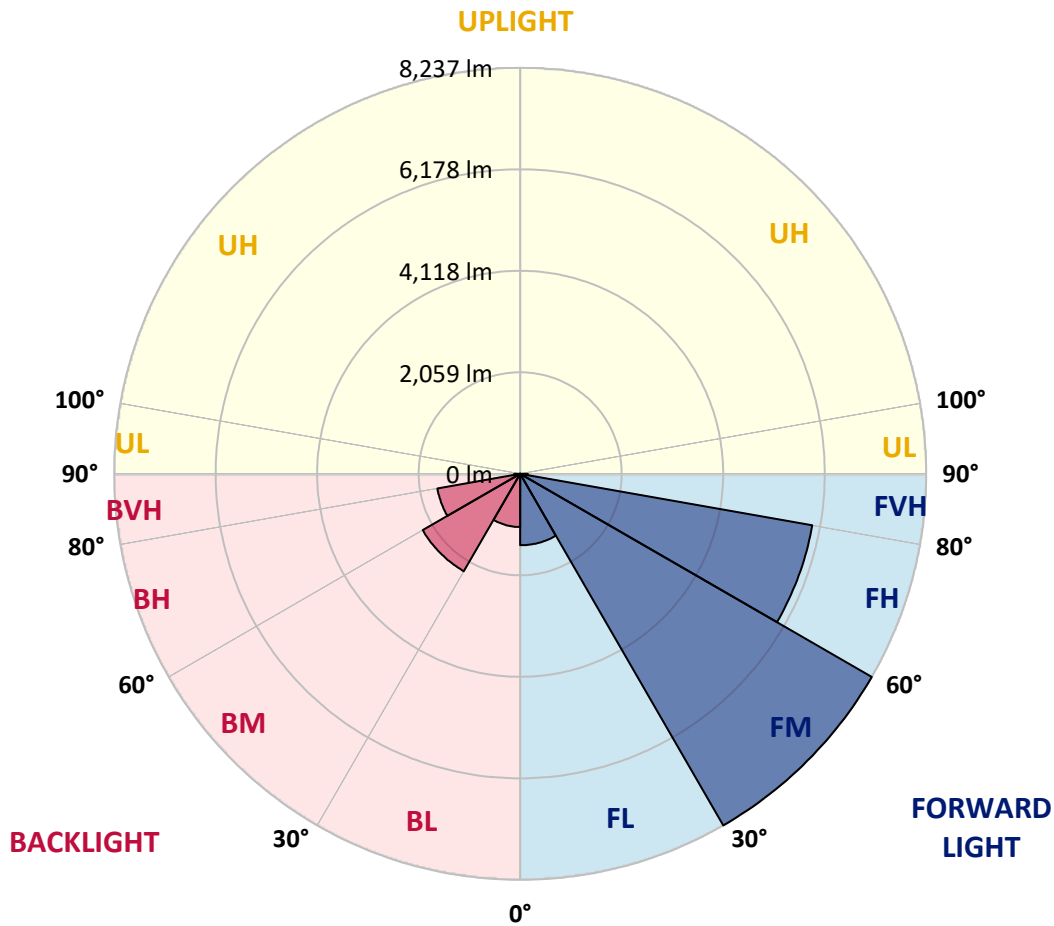
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1449.2 | 6.9       |                         |      |         |
| FM (30°-60°)   | 8236.8 | 39.1      |                         |      |         |
| FH (60°-80°)   | 6016.8 | 28.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 154.1  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1079.3 | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2282.6 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1705.1 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 121.2  | 0.6       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5  | 3085.5  | 3085.5  | 3085.5  |
| 2.5°  | 3159.2 | 3177.0 | 3171.4 | 3165.9 | 3165.9 | 3158.0 | 3156.9  | 3145.8  | 3136.8  | 3122.3  |
| 5°    | 3199.4 | 3218.3 | 3216.1 | 3220.6 | 3235.1 | 3238.4 | 3241.8  | 3235.1  | 3217.2  | 3199.4  |
| 7.5°  | 3163.6 | 3184.8 | 3191.5 | 3218.3 | 3263.0 | 3303.2 | 3333.4  | 3345.7  | 3328.9  | 3303.2  |
| 10°   | 3043.0 | 3066.5 | 3089.9 | 3153.6 | 3232.9 | 3327.8 | 3408.2  | 3456.2  | 3452.9  | 3428.3  |
| 12.5° | 2798.5 | 2823.0 | 2873.3 | 2997.2 | 3142.4 | 3309.9 | 3459.6  | 3560.1  | 3594.7  | 3576.8  |
| 15°   | 2603.0 | 2624.3 | 2662.2 | 2789.5 | 2978.3 | 3232.9 | 3478.5  | 3674.0  | 3762.2  | 3752.1  |
| 17.5° | 2597.5 | 2606.4 | 2629.8 | 2690.1 | 2835.3 | 3112.3 | 3458.4  | 3785.6  | 3954.3  | 3953.1  |
| 20°   | 2695.7 | 2699.1 | 2712.5 | 2724.8 | 2807.4 | 3020.7 | 3407.1  | 3878.3  | 4169.8  | 4169.8  |
| 22.5° | 2832.0 | 2829.7 | 2843.1 | 2832.0 | 2872.2 | 3012.9 | 3374.7  | 3959.8  | 4409.9  | 4427.7  |
| 25°   | 3036.3 | 3025.2 | 3021.8 | 2996.1 | 3003.9 | 3085.5 | 3410.4  | 4052.5  | 4694.6  | 4731.5  |
| 27.5° | 3308.8 | 3290.9 | 3278.7 | 3219.5 | 3199.4 | 3235.1 | 3519.9  | 4164.2  | 5011.8  | 5075.4  |
| 30°   | 3663.9 | 3631.5 | 3613.7 | 3510.9 | 3438.3 | 3443.9 | 3685.1  | 4312.7  | 5343.4  | 5446.2  |
| 32.5° | 4148.6 | 4098.3 | 4050.3 | 3881.7 | 3748.8 | 3705.2 | 3898.4  | 4518.2  | 5703.0  | 5867.2  |
| 35°   | 4691.3 | 4651.1 | 4599.7 | 4339.5 | 4135.2 | 4034.7 | 4186.5  | 4805.2  | 6124.0  | 6384.2  |
| 37.5° | 5213.9 | 5179.3 | 5203.9 | 4853.2 | 4589.7 | 4443.4 | 4564.0  | 5190.5  | 6643.3  | 7027.4  |
| 40°   | 5754.4 | 5727.6 | 5730.9 | 5395.9 | 5088.8 | 4924.7 | 5021.8  | 5674.0  | 7238.5  | 7792.4  |
| 42.5° | 6341.8 | 6321.7 | 6254.7 | 5957.6 | 5612.6 | 5459.6 | 5548.9  | 6232.3  | 7877.2  | 8663.4  |
| 45°   | 6999.5 | 6987.2 | 6924.7 | 6584.1 | 6188.8 | 6016.8 | 6137.4  | 6848.8  | 8519.4  | 9483.1  |
| 47.5° | 7567.9 | 7578.0 | 7570.2 | 7283.2 | 6873.3 | 6621.0 | 6765.0  | 7492.0  | 9116.8  | 10253.6 |
| 50°   | 7841.5 | 7894.0 | 7971.1 | 7881.7 | 7627.1 | 7370.3 | 7398.2  | 8112.9  | 9686.3  | 10976.1 |
| 52.5° | 7698.6 | 7798.0 | 8007.9 | 8150.8 | 8249.1 | 8195.5 | 8120.7  | 8729.3  | 10222.3 | 11628.3 |
| 55°   | 7165.9 | 7305.5 | 7653.9 | 7999.0 | 8500.4 | 8890.1 | 8988.4  | 9412.7  | 10745.0 | 12202.3 |
| 57.5° | 6195.5 | 6422.2 | 6734.9 | 7432.8 | 8277.0 | 9226.2 | 10000.1 | 10360.8 | 11298.8 | 12815.3 |
| 60°   | 4531.6 | 4835.3 | 5224.0 | 6262.5 | 7495.3 | 9046.4 | 10861.1 | 11817.0 | 12086.1 | 13609.3 |
| 62.5° | 2900.1 | 3087.7 | 3445.0 | 4423.3 | 5840.4 | 8125.2 | 11124.6 | 13637.2 | 13420.6 | 14911.4 |
| 65°   | 1985.5 | 2106.1 | 2433.3 | 2982.7 | 3775.6 | 6048.1 | 10418.9 | 15001.8 | 15540.1 | 16975.1 |
| 67.5° | 1442.8 | 1534.4 | 1813.5 | 2294.8 | 2460.1 | 3579.0 | 8085.0  | 14939.3 | 17600.4 | 19101.3 |
| 70°   | 1051.9 | 1116.7 | 1351.2 | 1813.5 | 1892.8 | 1991.1 | 4897.9  | 12699.2 | 17555.7 | 19666.3 |
| 72.5° | 779.5  | 824.1  | 981.6  | 1407.1 | 1532.1 | 1344.5 | 2424.4  | 9229.6  | 15085.6 | 17788.0 |
| 75°   | 563.9  | 597.4  | 713.6  | 1076.5 | 1226.1 | 1024.0 | 1209.4  | 5393.7  | 10522.7 | 12512.7 |
| 77.5° | 431.0  | 456.7  | 532.7  | 788.4  | 981.6  | 768.3  | 750.4   | 2481.3  | 4989.4  | 5014.0  |
| 80°   | 346.2  | 362.9  | 404.2  | 555.0  | 752.7  | 575.1  | 489.1   | 1001.7  | 1576.8  | 1334.5  |
| 82.5° | 254.6  | 282.5  | 341.7  | 389.7  | 538.3  | 396.4  | 298.2   | 505.9   | 599.7   | 515.9   |
| 85°   | 145.2  | 164.2  | 206.6  | 279.2  | 343.9  | 242.3  | 170.9   | 224.5   | 279.2   | 228.9   |
| 87.5° | 51.4   | 67.0   | 72.6   | 109.4  | 149.6  | 100.5  | 65.9    | 64.8    | 91.6    | 68.1    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3085.5  | 0°    | 3085.5  | 3085.5  | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 | 3085.5 |
| 3119.0  | 2.5°  | 3107.8  | 3102.2  | 3079.9 | 3049.7 | 3018.5 | 2988.3 | 2978.3 | 2957.0 | 2942.5 | 2934.7 |
| 3191.5  | 5°    | 3170.3  | 3152.5  | 3100.0 | 3033.0 | 2962.6 | 2886.7 | 2833.1 | 2783.9 | 2748.2 | 2714.7 |
| 3290.9  | 7.5°  | 3259.7  | 3228.4  | 3137.9 | 3020.7 | 2895.6 | 2769.4 | 2675.6 | 2604.2 | 2556.1 | 2524.9 |
| 3407.1  | 10°   | 3363.5  | 3315.5  | 3177.0 | 3001.7 | 2808.5 | 2627.6 | 2517.1 | 2455.6 | 2425.5 | 2408.7 |
| 3540.0  | 12.5° | 3483.0  | 3414.9  | 3217.2 | 2958.2 | 2675.6 | 2469.0 | 2393.1 | 2375.2 | 2376.4 | 2377.5 |
| 3707.5  | 15°   | 3630.4  | 3535.5  | 3249.6 | 2863.2 | 2502.5 | 2347.3 | 2333.9 | 2363.0 | 2393.1 | 2407.6 |
| 3897.3  | 17.5° | 3796.8  | 3662.8  | 3255.2 | 2706.9 | 2332.8 | 2269.1 | 2311.6 | 2374.1 | 2419.9 | 2440.0 |
| 4109.5  | 20°   | 3975.5  | 3792.3  | 3215.0 | 2485.8 | 2193.2 | 2205.5 | 2281.4 | 2361.8 | 2412.1 | 2437.8 |
| 4351.8  | 22.5° | 4179.8  | 3930.8  | 3119.0 | 2253.5 | 2079.3 | 2136.3 | 2225.6 | 2303.8 | 2356.3 | 2381.9 |
| 4636.6  | 25°   | 4413.2  | 4086.0  | 2968.2 | 2058.1 | 1981.0 | 2058.1 | 2147.4 | 2212.2 | 2254.6 | 2278.1 |
| 4954.8  | 27.5° | 4672.3  | 4248.0  | 2767.2 | 1902.9 | 1895.1 | 1977.7 | 2051.4 | 2101.6 | 2124.0 | 2141.8 |
| 5293.2  | 30°   | 4932.5  | 4395.4  | 2523.8 | 1785.6 | 1820.2 | 1898.4 | 1950.9 | 1973.2 | 1979.9 | 1983.3 |
| 5670.6  | 32.5° | 5213.9  | 4522.7  | 2268.0 | 1688.5 | 1748.8 | 1821.3 | 1852.6 | 1862.7 | 1831.4 | 1810.2 |
| 6128.5  | 35°   | 5554.5  | 4658.9  | 2017.9 | 1611.4 | 1678.4 | 1740.9 | 1751.0 | 1742.1 | 1705.2 | 1661.7 |
| 6702.5  | 37.5° | 5975.5  | 4828.6  | 1818.0 | 1556.7 | 1612.5 | 1653.8 | 1641.6 | 1639.3 | 1642.7 | 1591.3 |
| 7392.6  | 40°   | 6491.4  | 5049.7  | 1671.7 | 1514.3 | 1558.9 | 1567.9 | 1533.2 | 1552.2 | 1569.0 | 1490.8 |
| 8149.7  | 42.5° | 7064.3  | 5316.6  | 1579.0 | 1485.2 | 1514.3 | 1493.0 | 1439.4 | 1460.7 | 1458.4 | 1355.7 |
| 8910.2  | 45°   | 7648.3  | 5607.0  | 1546.6 | 1464.0 | 1472.9 | 1430.5 | 1371.3 | 1376.9 | 1330.0 | 1237.3 |
| 9639.4  | 47.5° | 8229.0  | 5918.5  | 1566.7 | 1446.1 | 1421.6 | 1373.5 | 1327.8 | 1303.2 | 1234.0 | 1164.7 |
| 10338.5 | 50°   | 8798.5  | 6245.7  | 1640.4 | 1410.4 | 1351.2 | 1323.3 | 1289.8 | 1246.2 | 1172.5 | 1113.4 |
| 10999.6 | 52.5° | 9326.7  | 6575.2  | 1723.1 | 1351.2 | 1263.0 | 1279.7 | 1258.5 | 1208.3 | 1135.7 | 1075.4 |
| 11624.9 | 55°   | 9827.0  | 6904.6  | 1755.5 | 1269.7 | 1180.4 | 1241.8 | 1229.5 | 1136.8 | 1049.7 | 1000.6 |
| 12279.3 | 57.5° | 10372.0 | 7301.0  | 1719.7 | 1165.8 | 1113.4 | 1198.2 | 1151.3 | 1048.6 | 998.3  | 961.5  |
| 13131.4 | 60°   | 11126.9 | 7923.0  | 1642.7 | 1037.4 | 1049.7 | 1133.5 | 1053.1 | 1010.6 | 955.9  | 914.6  |
| 14408.9 | 62.5° | 12380.9 | 9083.3  | 1518.7 | 910.1  | 974.9  | 1037.4 | 1006.2 | 963.7  | 907.9  | 867.7  |
| 16593.1 | 65°   | 14234.7 | 10695.8 | 1285.3 | 810.7  | 891.1  | 943.6  | 955.9  | 913.5  | 855.4  | 813.0  |
| 18507.2 | 67.5° | 15798.0 | 11707.6 | 972.7  | 728.1  | 805.1  | 867.7  | 902.3  | 861.0  | 799.6  | 758.2  |
| 18955.0 | 70°   | 15712.1 | 10972.8 | 742.6  | 646.6  | 729.2  | 792.9  | 837.5  | 805.1  | 739.3  | 700.2  |
| 17217.4 | 72.5° | 13955.5 | 9179.3  | 600.8  | 563.9  | 652.2  | 714.7  | 768.3  | 743.7  | 676.7  | 638.8  |
| 12613.2 | 75°   | 10252.5 | 6516.0  | 480.2  | 480.2  | 556.1  | 633.2  | 692.4  | 676.7  | 615.3  | 588.5  |
| 5295.4  | 77.5° | 4321.7  | 2733.7  | 376.3  | 398.7  | 462.3  | 543.8  | 617.5  | 623.1  | 569.5  | 603.0  |
| 1400.3  | 80°   | 1149.1  | 753.8   | 287.0  | 313.8  | 362.9  | 448.9  | 537.1  | 534.9  | 476.8  | 445.6  |
| 520.4   | 82.5° | 437.7   | 297.0   | 204.4  | 221.1  | 262.4  | 343.9  | 425.5  | 438.9  | 380.8  | 329.4  |
| 204.4   | 85°   | 168.6   | 127.3   | 126.2  | 132.9  | 153.0  | 227.8  | 321.6  | 332.8  | 287.0  | 243.4  |
| 57.0    | 87.5° | 43.6    | 38.0    | 46.9   | 44.7   | 70.4   | 121.7  | 184.3  | 191.0  | 175.3  | 101.6  |
| 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> |
|-------------|
| 3085.5      |
| 2943.6      |
| 2728.1      |
| 2531.6      |
| 2413.2      |
| 2379.7      |
| 2406.5      |
| 2444.5      |
| 2444.5      |
| 2388.6      |
| 2284.8      |
| 2148.5      |
| 1991.1      |
| 1816.9      |
| 1663.9      |
| 1594.7      |
| 1493.0      |
| 1354.6      |
| 1240.7      |
| 1164.7      |
| 1108.9      |
| 1076.5      |
| 996.1       |
| 958.1       |
| 912.3       |
| 867.7       |
| 815.2       |
| 759.4       |
| 703.5       |
| 638.8       |
| 580.7       |
| 547.2       |
| 414.3       |
| 329.4       |
| 251.3       |
| 145.2       |
| 0.0         |

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