

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: P939646

Luminaire Tested: **GALN-SB2B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7936 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

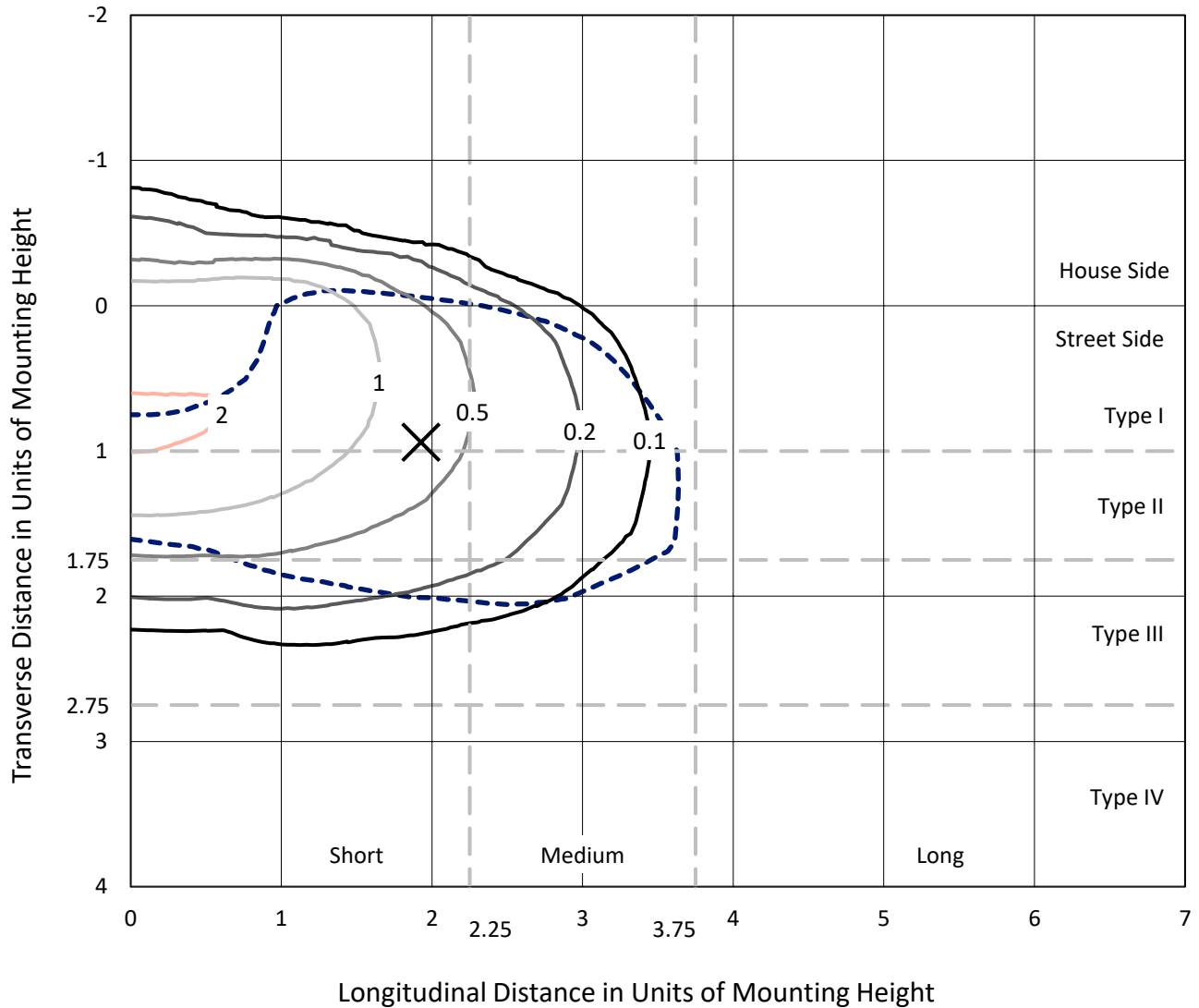
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

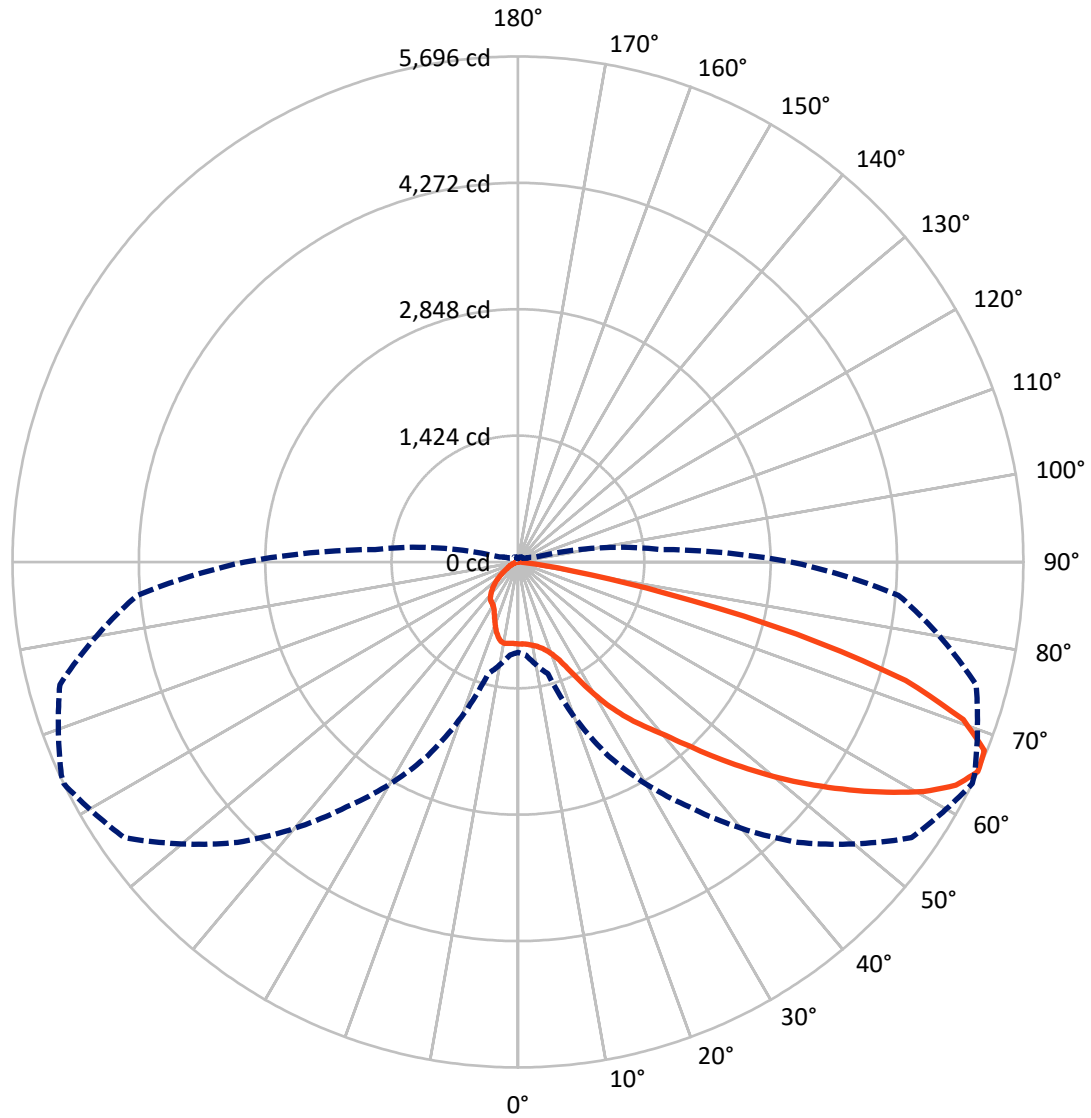
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1061.3 | 0.0 | 1061.3 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 6874.7 | 0.0 | 6874.7 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 7936.0 | 0.0 | 7936.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.2 | 1.1 |
| 10°-20° | 231.0 | 2.9 |
| 20°-30° | 437.7 | 5.5 |
| 30°-40° | 885.7 | 11.2 |
| 40°-50° | 1508.7 | 19.0 |
| 50°-60° | 2051.8 | 25.9 |
| 60°-70° | 1926.7 | 24.3 |
| 70°-80° | 771.9 | 9.7 |
| 80°-90° | 37.4 | 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° | 7936.0 | 100.0 |
| 0°-180° | 7936.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P939646

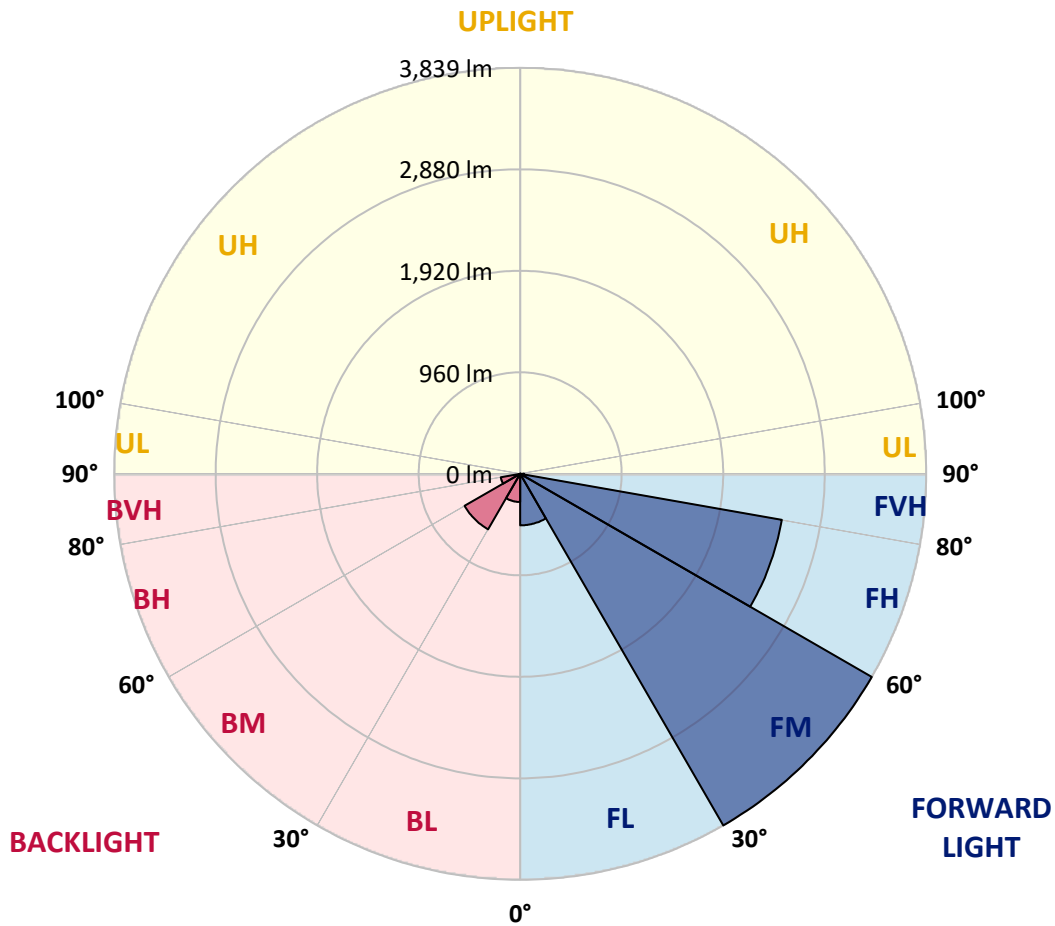
CATALOG NUMBER: GALN-SB2B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 487.4 | 6.1 | | | |
| FM (30°-60°) | 3839.4 | 48.4 | | | |
| FH (60°-80°) | 2512.4 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 35.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 266.5 | 3.4 | B1/500 | | |
| BM (30°-60°) | 606.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 186.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 |
| 2.5° | 919.8 | 926.2 | 924.6 | 923.0 | 922.5 | 923.6 | 924.1 | 923.6 | 923.6 | 923.6 |
| 5° | 902.3 | 907.6 | 907.6 | 911.3 | 916.7 | 923.0 | 927.8 | 928.9 | 930.0 | 931.6 |
| 7.5° | 868.8 | 873.0 | 876.2 | 888.5 | 901.8 | 918.8 | 933.1 | 940.6 | 941.7 | 947.5 |
| 10° | 845.9 | 851.2 | 856.5 | 869.3 | 888.5 | 914.0 | 938.5 | 956.6 | 959.2 | 973.0 |
| 12.5° | 844.8 | 850.2 | 857.1 | 870.9 | 893.2 | 920.4 | 950.2 | 976.2 | 981.0 | 1001.2 |
| 15° | 856.0 | 862.4 | 868.8 | 885.8 | 909.7 | 942.7 | 974.6 | 1007.1 | 1011.9 | 1040.6 |
| 17.5° | 878.9 | 887.4 | 892.2 | 909.2 | 934.7 | 971.5 | 1013.5 | 1050.7 | 1055.0 | 1088.5 |
| 20° | 924.1 | 934.2 | 935.8 | 949.6 | 974.6 | 1014.0 | 1064.0 | 1110.3 | 1115.6 | 1153.9 |
| 22.5° | 1017.7 | 1032.1 | 1019.3 | 1026.2 | 1048.6 | 1088.0 | 1142.2 | 1200.7 | 1208.2 | 1251.8 |
| 25° | 1182.7 | 1202.9 | 1169.9 | 1158.2 | 1167.8 | 1208.7 | 1276.8 | 1350.8 | 1359.3 | 1394.4 |
| 27.5° | 1506.7 | 1480.6 | 1430.6 | 1381.6 | 1352.9 | 1376.3 | 1452.9 | 1544.4 | 1555.1 | 1589.1 |
| 30° | 1862.6 | 1839.7 | 1772.1 | 1663.6 | 1595.5 | 1591.8 | 1662.5 | 1764.7 | 1776.9 | 1809.4 |
| 32.5° | 2219.0 | 2197.2 | 2123.8 | 1990.3 | 1872.1 | 1813.6 | 1862.6 | 1975.9 | 1982.3 | 2003.0 |
| 35° | 2569.6 | 2547.3 | 2473.9 | 2337.1 | 2191.9 | 2058.9 | 2049.3 | 2177.0 | 2179.1 | 2200.9 |
| 37.5° | 2922.3 | 2903.7 | 2825.5 | 2691.4 | 2548.3 | 2364.8 | 2275.9 | 2367.4 | 2370.1 | 2391.4 |
| 40° | 3174.0 | 3182.0 | 3128.2 | 3024.5 | 2901.6 | 2701.0 | 2530.2 | 2570.1 | 2554.2 | 2589.8 |
| 42.5° | 3390.0 | 3405.9 | 3359.1 | 3307.0 | 3235.7 | 3059.1 | 2845.2 | 2838.3 | 2812.7 | 2831.9 |
| 45° | 3576.7 | 3590.0 | 3548.0 | 3535.7 | 3534.1 | 3410.2 | 3189.4 | 3147.9 | 3112.3 | 3108.5 |
| 47.5° | 3645.3 | 3670.9 | 3689.0 | 3729.9 | 3809.7 | 3757.6 | 3545.3 | 3480.9 | 3441.0 | 3411.8 |
| 50° | 3671.4 | 3698.5 | 3760.3 | 3879.4 | 4068.3 | 4090.6 | 3899.6 | 3827.3 | 3778.3 | 3725.1 |
| 52.5° | 3636.3 | 3684.7 | 3767.7 | 3968.3 | 4242.3 | 4357.7 | 4239.6 | 4176.3 | 4120.4 | 4033.7 |
| 55° | 3429.3 | 3477.8 | 3647.5 | 3967.2 | 4329.0 | 4545.0 | 4560.9 | 4532.7 | 4470.0 | 4333.2 |
| 57.5° | 2993.1 | 3064.9 | 3333.6 | 3832.1 | 4327.4 | 4706.2 | 4875.9 | 4896.1 | 4825.9 | 4630.1 |
| 60° | 2388.7 | 2486.1 | 2813.8 | 3532.6 | 4193.8 | 4793.4 | 5152.0 | 5253.1 | 5178.6 | 4922.7 |
| 62.5° | 1666.8 | 1779.6 | 2089.7 | 3063.3 | 3888.5 | 4730.6 | 5353.6 | 5540.4 | 5484.0 | 5184.4 |
| 65° | 1016.7 | 1052.8 | 1302.9 | 2410.5 | 3369.2 | 4467.8 | 5415.9 | 5695.7 | 5677.1 | 5344.6 |
| 67.5° | 677.3 | 707.6 | 779.4 | 1653.0 | 2615.4 | 3942.7 | 5266.9 | 5668.6 | 5673.9 | 5318.5 |
| 70° | 408.1 | 434.1 | 480.9 | 961.3 | 1695.0 | 3120.8 | 4805.7 | 5322.8 | 5353.6 | 4970.0 |
| 72.5° | 168.1 | 185.7 | 228.2 | 435.7 | 877.8 | 1980.7 | 3826.8 | 4570.0 | 4641.8 | 4178.9 |
| 75° | 95.2 | 104.3 | 134.1 | 218.7 | 380.9 | 923.0 | 2318.0 | 3244.2 | 3350.1 | 2880.3 |
| 77.5° | 63.3 | 67.6 | 86.7 | 141.5 | 214.4 | 315.0 | 990.6 | 1690.2 | 1892.4 | 1573.2 |
| 80° | 42.6 | 46.3 | 59.6 | 94.7 | 139.4 | 135.1 | 315.5 | 626.2 | 770.4 | 540.5 |
| 82.5° | 28.7 | 29.3 | 42.6 | 62.2 | 88.3 | 65.4 | 93.1 | 194.7 | 244.7 | 156.4 |
| 85° | 16.5 | 16.0 | 31.4 | 36.2 | 39.4 | 27.1 | 28.2 | 58.5 | 76.6 | 66.0 |
| 87.5° | 2.1 | 3.2 | 12.2 | 9.6 | 5.3 | 5.9 | 5.9 | 10.1 | 14.9 | 16.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P939646
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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 923.0 | 0° | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 | 923.0 |
| 924.1 | 2.5° | 924.1 | 923.6 | 922.0 | 920.4 | 916.7 | 914.5 | 915.6 | 914.5 | 914.0 | 914.5 |
| 931.0 | 5° | 931.0 | 929.4 | 925.2 | 919.8 | 912.4 | 903.4 | 897.5 | 889.0 | 881.0 | 876.2 |
| 949.6 | 7.5° | 949.6 | 948.0 | 942.2 | 927.3 | 903.4 | 865.6 | 831.0 | 800.7 | 777.8 | 764.5 |
| 979.4 | 10° | 979.4 | 976.8 | 967.7 | 934.7 | 872.0 | 789.5 | 720.9 | 663.9 | 626.7 | 609.2 |
| 1014.5 | 12.5° | 1014.5 | 1011.4 | 995.4 | 927.8 | 812.4 | 683.6 | 588.9 | 525.6 | 491.0 | 475.6 |
| 1055.0 | 15° | 1056.0 | 1051.8 | 1020.4 | 894.8 | 725.7 | 566.6 | 479.9 | 432.5 | 410.2 | 396.3 |
| 1106.6 | 17.5° | 1107.6 | 1100.2 | 1039.0 | 845.4 | 631.5 | 477.2 | 412.8 | 377.2 | 357.5 | 344.2 |
| 1174.1 | 20° | 1174.7 | 1162.4 | 1053.9 | 786.3 | 544.8 | 420.8 | 367.6 | 337.8 | 322.9 | 311.2 |
| 1269.9 | 22.5° | 1268.3 | 1250.8 | 1072.0 | 722.5 | 483.6 | 382.0 | 334.1 | 312.3 | 300.1 | 286.8 |
| 1403.4 | 25° | 1384.3 | 1363.5 | 1094.3 | 663.4 | 441.6 | 348.5 | 309.6 | 291.5 | 277.2 | 261.7 |
| 1578.5 | 27.5° | 1546.6 | 1509.3 | 1120.9 | 615.0 | 405.4 | 319.7 | 287.3 | 267.1 | 250.6 | 237.8 |
| 1776.9 | 30° | 1727.4 | 1666.3 | 1144.4 | 585.7 | 372.4 | 293.1 | 258.0 | 237.8 | 222.4 | 213.3 |
| 1955.1 | 32.5° | 1898.7 | 1815.8 | 1159.8 | 573.0 | 342.6 | 262.8 | 226.1 | 204.3 | 192.6 | 189.9 |
| 2129.6 | 35° | 2060.5 | 1950.9 | 1158.2 | 560.7 | 316.0 | 232.5 | 194.7 | 172.4 | 163.3 | 164.9 |
| 2317.4 | 37.5° | 2246.7 | 2095.1 | 1147.0 | 541.6 | 294.2 | 204.8 | 167.6 | 147.9 | 139.9 | 140.5 |
| 2545.7 | 40° | 2463.2 | 2261.6 | 1140.1 | 505.4 | 270.3 | 179.3 | 145.2 | 129.3 | 123.4 | 121.3 |
| 2786.1 | 42.5° | 2694.1 | 2422.8 | 1141.2 | 464.4 | 240.5 | 156.4 | 129.8 | 116.5 | 111.2 | 109.6 |
| 3053.7 | 45° | 2926.1 | 2576.5 | 1142.8 | 421.9 | 209.1 | 138.9 | 118.6 | 107.5 | 104.3 | 102.1 |
| 3325.1 | 47.5° | 3144.2 | 2707.4 | 1113.0 | 376.1 | 178.2 | 125.6 | 109.6 | 102.1 | 99.5 | 96.8 |
| 3597.5 | 50° | 3347.4 | 2794.7 | 1041.1 | 322.9 | 153.8 | 114.9 | 102.7 | 97.4 | 94.7 | 92.0 |
| 3844.3 | 52.5° | 3505.4 | 2808.5 | 922.5 | 268.1 | 136.7 | 106.9 | 98.4 | 93.6 | 90.4 | 87.8 |
| 4043.8 | 55° | 3575.6 | 2721.8 | 753.9 | 217.1 | 123.4 | 100.0 | 94.2 | 89.4 | 85.7 | 83.0 |
| 4200.8 | 57.5° | 3557.6 | 2539.3 | 587.9 | 174.5 | 110.7 | 93.1 | 88.8 | 85.7 | 81.4 | 77.1 |
| 4327.9 | 60° | 3468.7 | 2295.1 | 443.2 | 145.2 | 99.0 | 85.7 | 83.0 | 80.3 | 74.5 | 68.1 |
| 4376.9 | 62.5° | 3315.0 | 1988.1 | 316.0 | 120.2 | 86.2 | 77.1 | 76.1 | 73.9 | 65.4 | 53.7 |
| 4304.5 | 65° | 3079.8 | 1615.2 | 212.8 | 100.0 | 73.9 | 67.6 | 68.1 | 64.4 | 53.2 | 39.9 |
| 4039.6 | 67.5° | 2736.1 | 1181.1 | 136.2 | 81.9 | 61.7 | 56.4 | 56.9 | 54.8 | 45.2 | 34.0 |
| 3537.3 | 70° | 2298.3 | 782.1 | 88.8 | 62.2 | 49.5 | 43.6 | 46.8 | 47.3 | 38.3 | 27.7 |
| 2714.9 | 72.5° | 1684.9 | 461.8 | 62.2 | 46.3 | 36.2 | 30.3 | 38.3 | 39.4 | 30.9 | 20.7 |
| 1633.3 | 75° | 960.3 | 219.2 | 46.8 | 33.5 | 22.3 | 21.3 | 29.8 | 29.8 | 21.3 | 13.8 |
| 707.0 | 77.5° | 403.3 | 91.5 | 33.0 | 21.8 | 12.8 | 12.2 | 20.2 | 18.6 | 10.6 | 6.4 |
| 172.4 | 80° | 116.5 | 41.0 | 17.6 | 10.6 | 5.3 | 4.8 | 8.0 | 5.9 | 2.7 | 1.1 |
| 65.4 | 82.5° | 45.8 | 18.1 | 6.9 | 4.3 | 2.1 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 37.2 | 85° | 27.1 | 7.4 | 3.2 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.0 | 87.5° | 6.9 | 1.6 | 1.1 | 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> |
| 923.0 |
| 916.7 |
| 877.3 |
| 765.0 |
| 607.6 |
| 474.0 |
| 396.9 |
| 343.1 |
| 309.1 |
| 284.6 |
| 260.2 |
| 235.1 |
| 211.7 |
| 191.5 |
| 164.9 |
| 142.6 |
| 120.8 |
| 109.1 |
| 102.1 |
| 96.8 |
| 92.0 |
| 87.2 |
| 82.5 |
| 76.6 |
| 67.0 |
| 52.7 |
| 38.8 |
| 32.5 |
| 26.6 |
| 19.7 |
| 12.8 |
| 6.4 |
| 1.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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