

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: P943636

Luminaire Tested: **GALN-SB8A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943636
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-SB8A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA 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: 19790 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

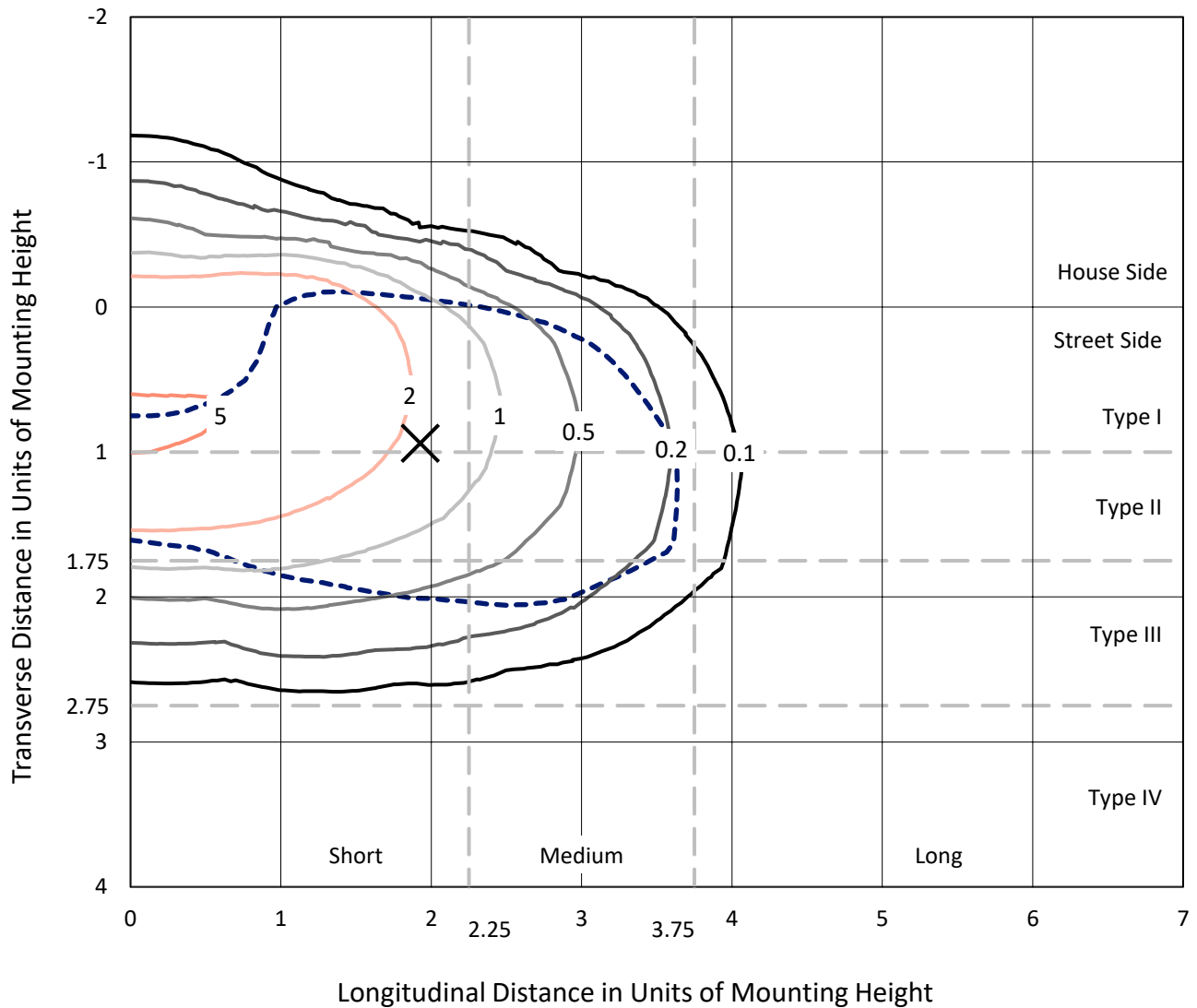
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

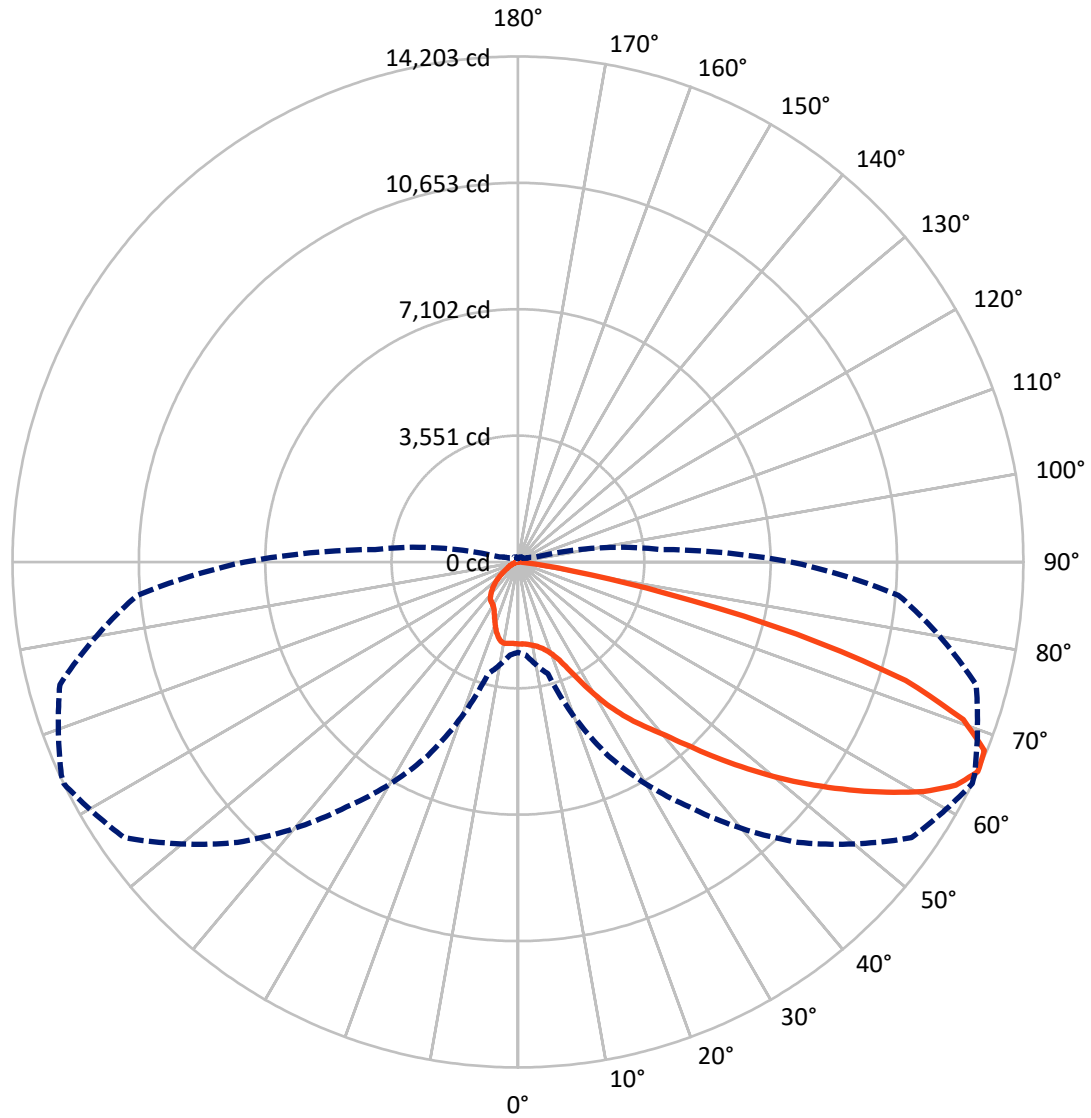
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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 | 2646.5 | 0.0 | 2646.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 17143.5 | 0.0 | 17143.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 19790.0 | 0.0 | 19790.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.4 | 1.1 |
| 10°-20° | 576.0 | 2.9 |
| 20°-30° | 1091.4 | 5.5 |
| 30°-40° | 2208.6 | 11.2 |
| 40°-50° | 3762.3 | 19.0 |
| 50°-60° | 5116.5 | 25.9 |
| 60°-70° | 4804.6 | 24.3 |
| 70°-80° | 1924.9 | 9.7 |
| 80°-90° | 93.3 | 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° | 19790.0 | 100.0 |
| 0°-180° | 19790.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P943636

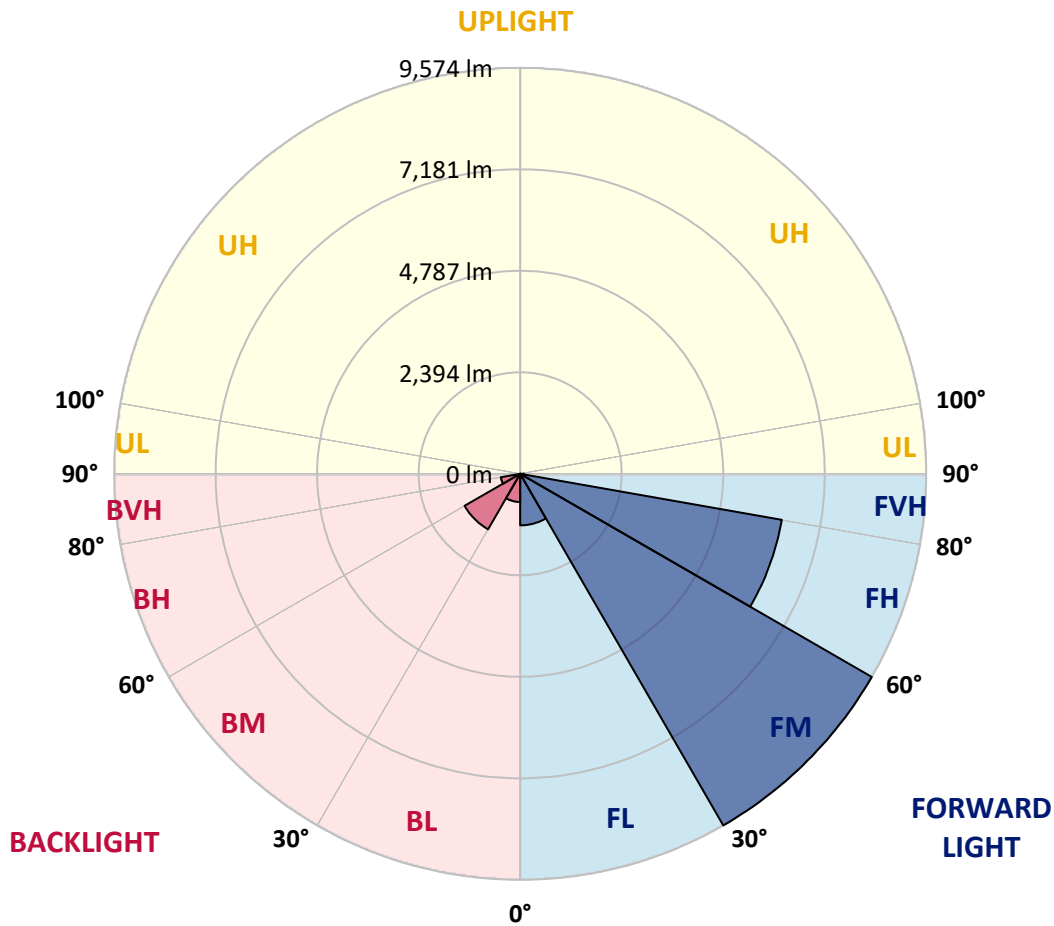
CATALOG NUMBER: GALN-SB8A-950-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1215.3 | 6.1 | | | |
| FM (30°-60°) | 9574.4 | 48.4 | | | |
| FH (60°-80°) | 6265.1 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 88.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 664.5 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1513.0 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 464.5 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.6 | 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 Short



REPORT NUMBER: P943636

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 |
| 2.5° | 2293.8 | 2309.7 | 2305.8 | 2301.8 | 2300.5 | 2303.1 | 2304.4 | 2303.1 | 2303.1 | 2303.1 |
| 5° | 2250.0 | 2263.3 | 2263.3 | 2272.6 | 2285.9 | 2301.8 | 2313.7 | 2316.4 | 2319.0 | 2323.0 |
| 7.5° | 2166.5 | 2177.1 | 2185.0 | 2215.5 | 2248.7 | 2291.2 | 2327.0 | 2345.6 | 2348.2 | 2362.8 |
| 10° | 2109.4 | 2122.7 | 2135.9 | 2167.8 | 2215.5 | 2279.2 | 2340.3 | 2385.4 | 2392.0 | 2426.5 |
| 12.5° | 2106.8 | 2120.0 | 2137.3 | 2171.8 | 2227.5 | 2295.1 | 2369.4 | 2434.5 | 2446.4 | 2496.8 |
| 15° | 2134.6 | 2150.5 | 2166.5 | 2208.9 | 2268.6 | 2350.9 | 2430.5 | 2511.4 | 2523.3 | 2595.0 |
| 17.5° | 2191.7 | 2212.9 | 2224.8 | 2267.3 | 2331.0 | 2422.5 | 2527.3 | 2620.2 | 2630.8 | 2714.4 |
| 20° | 2304.4 | 2329.6 | 2333.6 | 2368.1 | 2430.5 | 2528.6 | 2653.4 | 2768.8 | 2782.0 | 2877.6 |
| 22.5° | 2537.9 | 2573.8 | 2541.9 | 2559.2 | 2614.9 | 2713.1 | 2848.4 | 2994.3 | 3012.9 | 3121.7 |
| 25° | 2949.2 | 2999.6 | 2917.4 | 2888.2 | 2912.1 | 3014.2 | 3184.0 | 3368.4 | 3389.7 | 3477.2 |
| 27.5° | 3757.1 | 3692.1 | 3567.4 | 3445.4 | 3373.7 | 3432.1 | 3623.2 | 3851.3 | 3877.9 | 3962.8 |
| 30° | 4644.7 | 4587.6 | 4419.2 | 4148.5 | 3978.7 | 3969.4 | 4145.9 | 4400.6 | 4431.1 | 4512.0 |
| 32.5° | 5533.6 | 5479.2 | 5296.1 | 4963.1 | 4668.6 | 4522.6 | 4644.7 | 4927.3 | 4943.2 | 4994.9 |
| 35° | 6407.8 | 6352.1 | 6169.0 | 5828.1 | 5465.9 | 5134.2 | 5110.4 | 5428.8 | 5434.1 | 5488.5 |
| 37.5° | 7287.4 | 7241.0 | 7046.0 | 6711.7 | 6354.8 | 5897.1 | 5675.5 | 5903.7 | 5910.3 | 5963.4 |
| 40° | 7914.9 | 7934.8 | 7800.9 | 7542.2 | 7235.7 | 6735.5 | 6309.7 | 6409.2 | 6369.4 | 6458.3 |
| 42.5° | 8453.6 | 8493.4 | 8376.6 | 8246.6 | 8068.8 | 7628.4 | 7095.1 | 7077.8 | 7014.1 | 7061.9 |
| 45° | 8919.2 | 8952.4 | 8847.6 | 8817.1 | 8813.1 | 8504.0 | 7953.4 | 7849.9 | 7761.1 | 7751.8 |
| 47.5° | 9090.4 | 9154.1 | 9199.2 | 9301.3 | 9500.3 | 9370.3 | 8841.0 | 8680.4 | 8580.9 | 8508.0 |
| 50° | 9155.4 | 9223.1 | 9376.9 | 9674.1 | 10145.1 | 10200.8 | 9724.5 | 9544.1 | 9422.1 | 9289.4 |
| 52.5° | 9067.8 | 9188.6 | 9395.5 | 9895.7 | 10578.9 | 10866.8 | 10572.3 | 10414.4 | 10275.1 | 10058.9 |
| 55° | 8551.8 | 8672.5 | 9095.7 | 9893.0 | 10795.2 | 11333.8 | 11373.6 | 11303.3 | 11146.7 | 10805.8 |
| 57.5° | 7463.9 | 7643.0 | 8313.0 | 9556.0 | 10791.2 | 11735.8 | 12159.0 | 12209.4 | 12034.3 | 11546.1 |
| 60° | 5956.8 | 6199.6 | 7016.8 | 8809.1 | 10458.2 | 11953.3 | 12847.5 | 13099.6 | 12913.9 | 12275.7 |
| 62.5° | 4156.5 | 4437.7 | 5211.2 | 7639.0 | 9696.7 | 11796.8 | 13350.3 | 13816.0 | 13675.4 | 12928.5 |
| 65° | 2535.3 | 2625.5 | 3249.0 | 6011.2 | 8401.8 | 11141.4 | 13505.6 | 14203.4 | 14157.0 | 13327.8 |
| 67.5° | 1688.9 | 1764.5 | 1943.6 | 4122.0 | 6521.9 | 9832.0 | 13134.1 | 14135.7 | 14149.0 | 13262.8 |
| 70° | 1017.6 | 1082.6 | 1199.3 | 2397.3 | 4226.8 | 7782.3 | 11983.9 | 13273.4 | 13350.3 | 12393.8 |
| 72.5° | 419.2 | 463.0 | 569.1 | 1086.5 | 2189.0 | 4939.2 | 9542.8 | 11396.1 | 11575.2 | 10421.0 |
| 75° | 237.5 | 260.0 | 334.3 | 545.3 | 949.9 | 2301.8 | 5780.3 | 8090.1 | 8354.1 | 7182.6 |
| 77.5° | 157.9 | 168.5 | 216.2 | 352.9 | 534.7 | 785.4 | 2470.3 | 4214.8 | 4719.0 | 3923.0 |
| 80° | 106.1 | 115.4 | 148.6 | 236.1 | 347.6 | 337.0 | 786.7 | 1561.5 | 1921.0 | 1347.9 |
| 82.5° | 71.6 | 73.0 | 106.1 | 155.2 | 220.2 | 163.2 | 232.2 | 485.6 | 610.3 | 390.0 |
| 85° | 41.1 | 39.8 | 78.3 | 90.2 | 98.2 | 67.7 | 70.3 | 145.9 | 191.0 | 164.5 |
| 87.5° | 5.3 | 8.0 | 30.5 | 23.9 | 13.3 | 14.6 | 14.6 | 25.2 | 37.1 | 39.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943636
 CATALOG NUMBER: GALN-SB8A-950-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2301.8 | 0° | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 | 2301.8 |
| 2304.4 | 2.5° | 2304.4 | 2303.1 | 2299.1 | 2295.1 | 2285.9 | 2280.6 | 2283.2 | 2280.6 | 2279.2 | 2280.6 |
| 2321.7 | 5° | 2321.7 | 2317.7 | 2307.1 | 2293.8 | 2275.2 | 2252.7 | 2238.1 | 2216.9 | 2197.0 | 2185.0 |
| 2368.1 | 7.5° | 2368.1 | 2364.1 | 2349.5 | 2312.4 | 2252.7 | 2158.5 | 2072.3 | 1996.6 | 1939.6 | 1906.4 |
| 2442.4 | 10° | 2442.4 | 2435.8 | 2413.2 | 2331.0 | 2174.4 | 1968.8 | 1797.6 | 1655.7 | 1562.8 | 1519.0 |
| 2530.0 | 12.5° | 2530.0 | 2522.0 | 2482.2 | 2313.7 | 2025.8 | 1704.8 | 1468.6 | 1310.8 | 1224.5 | 1186.0 |
| 2630.8 | 15° | 2633.5 | 2622.8 | 2544.6 | 2231.5 | 1809.6 | 1412.9 | 1196.7 | 1078.6 | 1022.9 | 988.4 |
| 2759.5 | 17.5° | 2762.1 | 2743.6 | 2591.0 | 2108.1 | 1574.8 | 1190.0 | 1029.5 | 940.6 | 891.5 | 858.4 |
| 2928.0 | 20° | 2929.3 | 2898.8 | 2628.1 | 1960.8 | 1358.5 | 1049.4 | 916.7 | 842.4 | 805.3 | 776.1 |
| 3166.8 | 22.5° | 3162.8 | 3119.0 | 2673.3 | 1801.6 | 1205.9 | 952.6 | 833.2 | 778.8 | 748.2 | 715.1 |
| 3499.8 | 25° | 3452.0 | 3400.3 | 2729.0 | 1654.4 | 1101.1 | 869.0 | 772.1 | 727.0 | 691.2 | 652.7 |
| 3936.2 | 27.5° | 3856.6 | 3763.8 | 2795.3 | 1533.6 | 1010.9 | 797.3 | 716.4 | 666.0 | 624.9 | 593.0 |
| 4431.1 | 30° | 4307.7 | 4155.1 | 2853.7 | 1460.7 | 928.7 | 731.0 | 643.4 | 593.0 | 554.6 | 532.0 |
| 4875.5 | 32.5° | 4734.9 | 4527.9 | 2892.2 | 1428.8 | 854.4 | 655.4 | 563.8 | 509.4 | 480.3 | 473.6 |
| 5310.7 | 35° | 5138.2 | 4864.9 | 2888.2 | 1398.3 | 788.0 | 579.8 | 485.6 | 429.8 | 407.3 | 411.3 |
| 5779.0 | 37.5° | 5602.6 | 5224.4 | 2860.3 | 1350.6 | 733.7 | 510.8 | 417.9 | 368.8 | 348.9 | 350.2 |
| 6348.1 | 40° | 6142.5 | 5639.7 | 2843.1 | 1260.3 | 674.0 | 447.1 | 362.2 | 322.4 | 307.8 | 302.5 |
| 6947.8 | 42.5° | 6718.3 | 6041.7 | 2845.7 | 1158.2 | 599.7 | 390.0 | 323.7 | 290.5 | 277.3 | 273.3 |
| 7615.1 | 45° | 7296.7 | 6425.1 | 2849.7 | 1052.1 | 521.4 | 346.3 | 295.8 | 268.0 | 260.0 | 254.7 |
| 8291.7 | 47.5° | 7840.7 | 6751.5 | 2775.4 | 938.0 | 444.4 | 313.1 | 273.3 | 254.7 | 248.1 | 241.5 |
| 8971.0 | 50° | 8347.4 | 6969.0 | 2596.3 | 805.3 | 383.4 | 286.6 | 256.0 | 242.8 | 236.1 | 229.5 |
| 9586.6 | 52.5° | 8741.5 | 7003.5 | 2300.5 | 668.6 | 341.0 | 266.7 | 245.4 | 233.5 | 225.5 | 218.9 |
| 10084.1 | 55° | 8916.6 | 6787.3 | 1879.9 | 541.3 | 307.8 | 249.4 | 234.8 | 222.9 | 213.6 | 207.0 |
| 10475.4 | 57.5° | 8871.5 | 6332.2 | 1466.0 | 435.1 | 275.9 | 232.2 | 221.6 | 213.6 | 203.0 | 192.4 |
| 10792.5 | 60° | 8649.9 | 5723.3 | 1105.1 | 362.2 | 246.8 | 213.6 | 207.0 | 200.3 | 185.7 | 169.8 |
| 10914.6 | 62.5° | 8266.5 | 4957.8 | 788.0 | 299.8 | 214.9 | 192.4 | 189.7 | 184.4 | 163.2 | 134.0 |
| 10734.1 | 65° | 7680.1 | 4027.8 | 530.7 | 249.4 | 184.4 | 168.5 | 169.8 | 160.5 | 132.7 | 99.5 |
| 10073.4 | 67.5° | 6823.1 | 2945.2 | 339.6 | 204.3 | 153.9 | 140.6 | 142.0 | 136.6 | 112.8 | 84.9 |
| 8821.1 | 70° | 5731.2 | 1950.2 | 221.6 | 155.2 | 123.4 | 108.8 | 116.7 | 118.1 | 95.5 | 69.0 |
| 6770.0 | 72.5° | 4201.6 | 1151.6 | 155.2 | 115.4 | 90.2 | 75.6 | 95.5 | 98.2 | 76.9 | 51.7 |
| 4072.9 | 75° | 2394.6 | 546.6 | 116.7 | 83.6 | 55.7 | 53.1 | 74.3 | 74.3 | 53.1 | 34.5 |
| 1763.2 | 77.5° | 1005.6 | 228.2 | 82.3 | 54.4 | 31.8 | 30.5 | 50.4 | 46.4 | 26.5 | 15.9 |
| 429.8 | 80° | 290.5 | 102.2 | 43.8 | 26.5 | 13.3 | 11.9 | 19.9 | 14.6 | 6.6 | 2.7 |
| 163.2 | 82.5° | 114.1 | 45.1 | 17.2 | 10.6 | 5.3 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 |
| 92.9 | 85° | 67.7 | 18.6 | 8.0 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19.9 | 87.5° | 17.2 | 4.0 | 2.7 | 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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| |
|--------|
| 180° |
| 2301.8 |
| 2285.9 |
| 2187.7 |
| 1907.8 |
| 1515.1 |
| 1182.1 |
| 989.7 |
| 855.7 |
| 770.8 |
| 709.8 |
| 648.7 |
| 586.4 |
| 528.0 |
| 477.6 |
| 411.3 |
| 355.5 |
| 301.2 |
| 272.0 |
| 254.7 |
| 241.5 |
| 229.5 |
| 217.6 |
| 205.6 |
| 191.0 |
| 167.2 |
| 131.3 |
| 96.8 |
| 80.9 |
| 66.3 |
| 49.1 |
| 31.8 |
| 15.9 |
| 2.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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