

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: P954808

Luminaire Tested: **GALN-SB7D-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51201 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

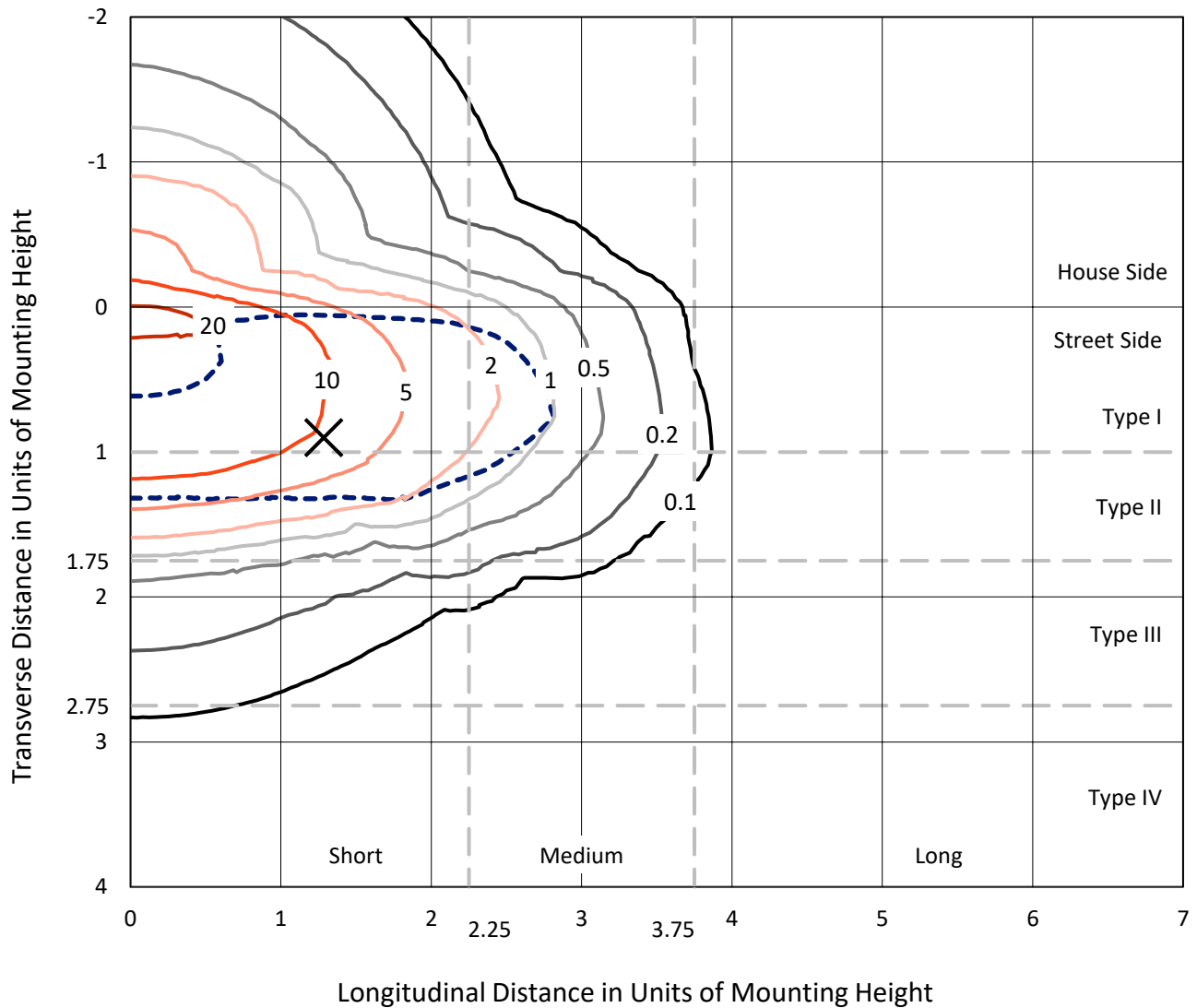
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

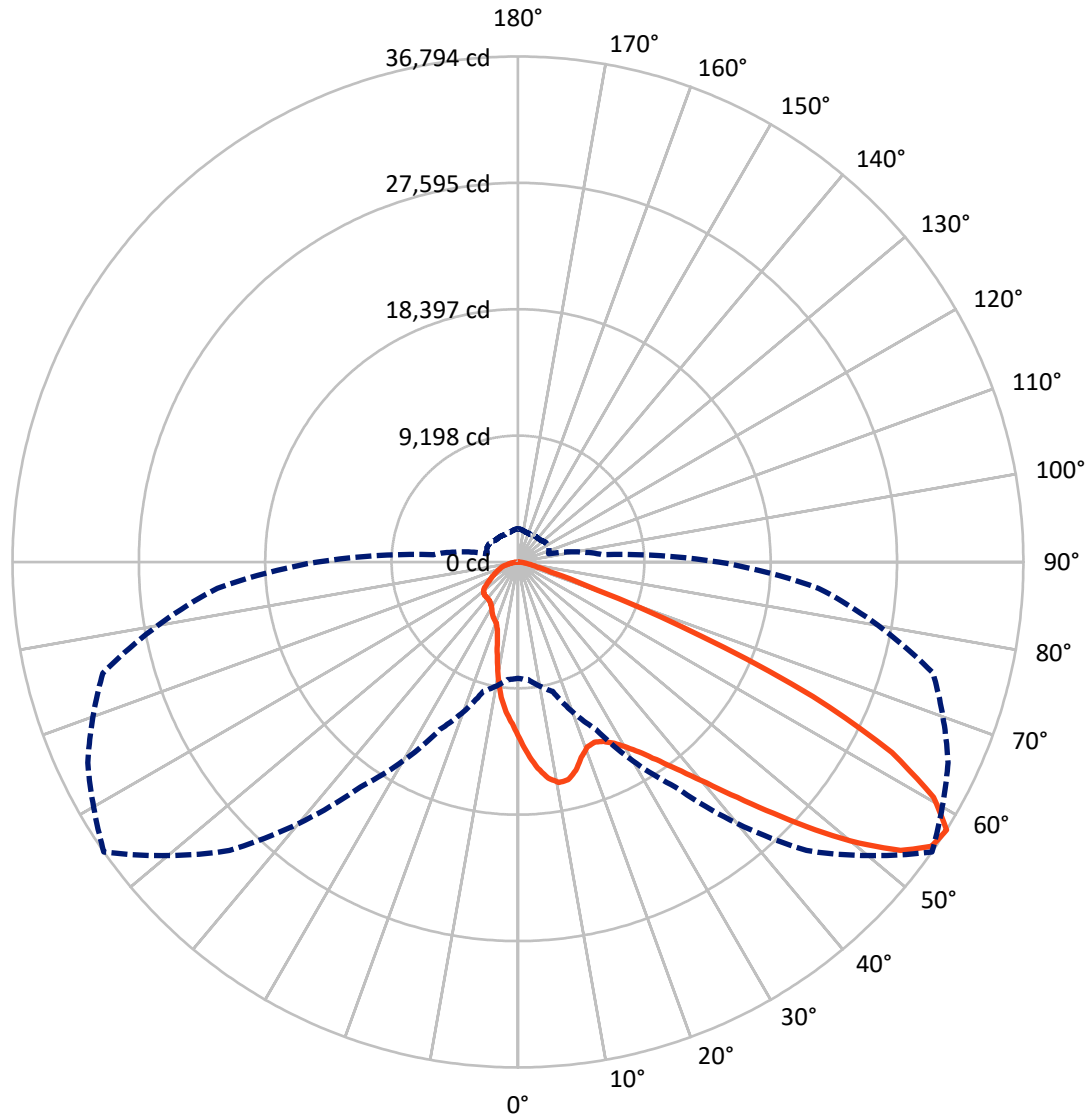
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9264.6 | 0.0 | 9264.6 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 41936.4 | 0.0 | 41936.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 51201.0 | 0.0 | 51201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1190.5 | 2.3 |
| 10°-20° | 3004.8 | 5.9 |
| 20°-30° | 4794.9 | 9.4 |
| 30°-40° | 7591.4 | 14.8 |
| 40°-50° | 11619.5 | 22.7 |
| 50°-60° | 12445.6 | 24.3 |
| 60°-70° | 7829.6 | 15.3 |
| 70°-80° | 2315.4 | 4.5 |
| 80°-90° | 409.4 | 0.8 |
| 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° | 51201.0 | 100.0 |
| 0°-180° | 51201.0 | 100.0 |

Coefficient of Utilization

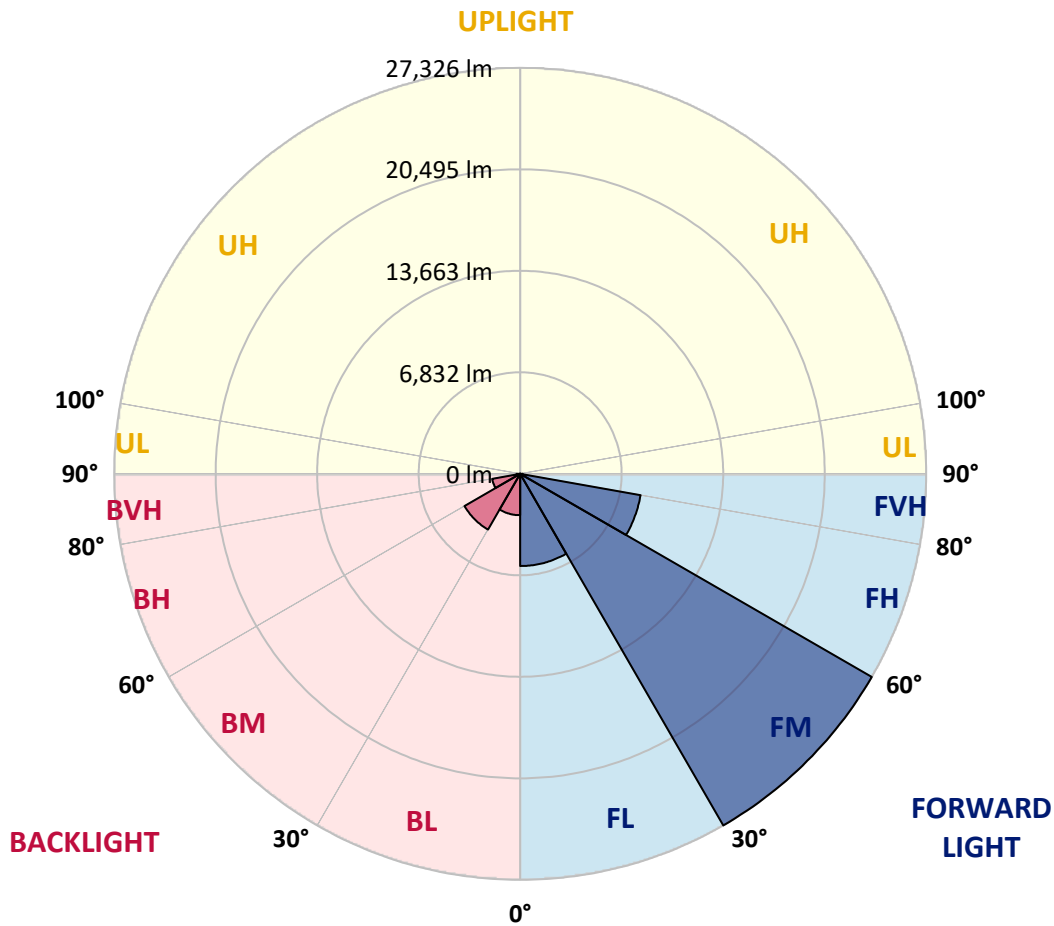


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 6205.6 | 12.1 | | | |
| FM (30°-60°) | 27326.3 | 53.4 | | | |
| FH (60°-80°) | 8231.6 | 16.1 | | | G4/12000 |
| FVH (80°-90°) | 173.0 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2784.6 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 4330.2 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1913.4 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 236.4 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 |
| 2.5° | 14719.2 | 14708.6 | 14766.8 | 14568.3 | 14433.3 | 14250.7 | 14009.8 | 13702.8 | 13371.9 | 13022.5 |
| 5° | 16045.2 | 15952.6 | 16013.5 | 15865.3 | 15717.0 | 15441.8 | 15084.4 | 14584.2 | 13972.8 | 13276.6 |
| 7.5° | 15836.1 | 15772.6 | 15928.8 | 16061.1 | 16172.3 | 16137.9 | 15875.8 | 15351.8 | 14563.0 | 13551.9 |
| 10° | 14150.1 | 14078.6 | 14298.3 | 14756.2 | 15428.5 | 16013.5 | 16331.1 | 16005.5 | 15166.5 | 13853.6 |
| 12.5° | 12662.6 | 12628.1 | 12773.7 | 13144.3 | 13890.7 | 15013.0 | 16272.9 | 16577.3 | 15793.8 | 14211.0 |
| 15° | 12027.3 | 11985.0 | 12077.6 | 12265.5 | 12742.0 | 13787.5 | 15743.5 | 16969.0 | 16410.5 | 14623.9 |
| 17.5° | 11887.0 | 11839.4 | 11879.1 | 11977.0 | 12284.1 | 13080.8 | 14944.1 | 17162.2 | 17053.7 | 15084.4 |
| 20° | 12146.4 | 12106.7 | 12112.0 | 12106.7 | 12321.1 | 12953.7 | 14388.3 | 17088.1 | 17614.8 | 15507.9 |
| 22.5° | 12773.7 | 12707.6 | 12710.2 | 12569.9 | 12686.4 | 13176.0 | 14242.7 | 16889.6 | 18115.1 | 15878.5 |
| 25° | 13795.4 | 13676.3 | 13700.1 | 13342.8 | 13311.0 | 13673.7 | 14470.4 | 16736.1 | 18612.7 | 16174.9 |
| 27.5° | 15193.0 | 15058.0 | 14986.5 | 14454.5 | 14200.4 | 14380.4 | 14933.6 | 16789.0 | 19083.8 | 16431.7 |
| 30° | 16939.9 | 16775.8 | 16630.2 | 15875.8 | 15415.3 | 15349.1 | 15653.5 | 17138.4 | 19639.7 | 16701.7 |
| 32.5° | 19081.2 | 18890.6 | 18625.9 | 17625.4 | 16976.9 | 16630.2 | 16585.2 | 17760.4 | 20290.8 | 17045.7 |
| 35° | 21630.1 | 21381.3 | 21005.4 | 19711.1 | 18890.6 | 18181.3 | 17813.3 | 18657.7 | 21182.8 | 17564.5 |
| 37.5° | 24255.8 | 23975.2 | 23631.1 | 22090.7 | 21082.2 | 20036.7 | 19311.5 | 19875.2 | 22371.2 | 18268.6 |
| 40° | 26677.7 | 26362.7 | 26042.4 | 24671.3 | 23588.8 | 22328.9 | 21145.7 | 21415.7 | 23824.3 | 19110.3 |
| 42.5° | 28107.0 | 27874.0 | 27752.3 | 27011.2 | 26174.8 | 24896.3 | 23427.3 | 23242.0 | 25457.5 | 20079.0 |
| 45° | 28043.4 | 27948.1 | 28324.0 | 28631.0 | 28432.5 | 27723.2 | 26100.6 | 25261.6 | 27095.9 | 20918.1 |
| 47.5° | 26545.3 | 26608.8 | 27447.9 | 29173.6 | 29933.3 | 30303.8 | 29144.5 | 27244.1 | 28519.9 | 21545.4 |
| 50° | 22469.2 | 22522.1 | 24464.9 | 28186.4 | 30319.7 | 32408.1 | 32164.6 | 29178.9 | 29623.6 | 21929.2 |
| 52.5° | 19242.6 | 19277.0 | 20110.8 | 25258.9 | 29043.9 | 33466.8 | 34885.6 | 31002.6 | 30430.9 | 22035.1 |
| 55° | 14494.2 | 14613.3 | 15547.6 | 19817.0 | 25724.8 | 32627.8 | 36542.5 | 32881.9 | 30941.7 | 22045.7 |
| 57.5° | 8467.3 | 8597.0 | 9751.0 | 13451.3 | 19994.3 | 29703.0 | 36793.9 | 34549.4 | 31288.5 | 21961.0 |
| 60° | 4147.6 | 4203.2 | 4706.1 | 7069.8 | 12329.1 | 24067.9 | 34771.7 | 35356.7 | 31481.7 | 21916.0 |
| 62.5° | 2795.1 | 2787.1 | 2808.3 | 3488.6 | 6074.5 | 15462.9 | 30557.9 | 33943.3 | 31378.5 | 21743.9 |
| 65° | 2403.3 | 2374.2 | 2294.8 | 2448.3 | 3147.1 | 7072.4 | 23610.0 | 29724.2 | 30592.4 | 21312.5 |
| 67.5° | 2077.8 | 2080.4 | 2083.1 | 2035.4 | 2247.2 | 3263.6 | 14428.0 | 23414.1 | 27770.8 | 19269.1 |
| 70° | 1720.5 | 1744.3 | 1754.9 | 1754.9 | 1831.6 | 2141.3 | 6159.2 | 16047.9 | 21905.4 | 15108.3 |
| 72.5° | 1566.9 | 1516.6 | 1521.9 | 1495.5 | 1495.5 | 1630.5 | 2480.1 | 9097.2 | 13800.7 | 8499.1 |
| 75° | 1278.4 | 1310.2 | 1315.5 | 1297.0 | 1236.1 | 1244.0 | 1471.7 | 3816.8 | 5905.1 | 3525.6 |
| 77.5° | 1103.7 | 1103.7 | 1114.3 | 1101.1 | 1053.4 | 931.7 | 982.0 | 1479.6 | 2009.0 | 1445.2 |
| 80° | 886.7 | 884.0 | 929.0 | 955.5 | 881.4 | 688.2 | 627.3 | 817.9 | 892.0 | 635.2 |
| 82.5° | 431.4 | 457.9 | 637.9 | 727.9 | 669.7 | 497.6 | 383.8 | 508.2 | 476.4 | 280.6 |
| 85° | 251.5 | 238.2 | 285.9 | 405.0 | 383.8 | 275.3 | 185.3 | 264.7 | 248.8 | 142.9 |
| 87.5° | 79.4 | 74.1 | 58.2 | 137.6 | 111.2 | 76.8 | 50.3 | 76.8 | 68.8 | 31.8 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12829.3 | 0° | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 | 12829.3 |
| 12871.7 | 2.5° | 12683.7 | 12371.4 | 12061.7 | 11778.5 | 11606.5 | 11495.3 | 11384.1 | 11259.7 | 11212.1 | 11140.6 |
| 12906.1 | 5° | 12556.7 | 11953.2 | 11415.9 | 10952.7 | 10531.8 | 10201.0 | 9867.5 | 9597.5 | 9475.7 | 9557.8 |
| 13014.6 | 7.5° | 12482.6 | 11609.1 | 10780.6 | 9931.0 | 9113.1 | 8459.4 | 7890.3 | 7490.6 | 7310.6 | 7355.6 |
| 13120.5 | 10° | 12416.4 | 11220.0 | 9957.5 | 8615.5 | 7440.3 | 6630.4 | 6048.1 | 5743.7 | 5629.9 | 5653.7 |
| 13263.4 | 12.5° | 12355.5 | 10783.3 | 8964.9 | 7199.4 | 5950.1 | 5415.5 | 5248.7 | 5251.4 | 5272.5 | 5288.4 |
| 13491.0 | 15° | 12344.9 | 10256.6 | 7855.9 | 5960.7 | 5145.5 | 5111.1 | 5291.1 | 5404.9 | 5465.8 | 5484.3 |
| 13681.6 | 17.5° | 12329.1 | 9626.6 | 6725.7 | 5116.4 | 4949.6 | 5182.5 | 5349.3 | 5423.4 | 5471.1 | 5473.7 |
| 13866.9 | 20° | 12265.5 | 8827.3 | 5682.8 | 4714.0 | 4907.3 | 5108.4 | 5211.7 | 5269.9 | 5309.6 | 5322.8 |
| 14007.2 | 22.5° | 12069.7 | 7937.9 | 4870.2 | 4534.1 | 4737.9 | 4899.3 | 5021.1 | 5087.3 | 5111.1 | 5127.0 |
| 14033.6 | 25° | 11717.6 | 6942.7 | 4309.1 | 4362.0 | 4502.3 | 4706.1 | 4804.0 | 4817.3 | 4809.3 | 4833.2 |
| 13967.5 | 27.5° | 11257.1 | 5876.0 | 3959.7 | 4129.1 | 4309.1 | 4483.8 | 4536.7 | 4528.8 | 4512.9 | 4539.4 |
| 13853.6 | 30° | 10701.2 | 4917.9 | 3737.4 | 3867.1 | 4113.2 | 4272.0 | 4319.7 | 4301.1 | 4269.4 | 4298.5 |
| 13795.4 | 32.5° | 10113.6 | 4134.4 | 3554.7 | 3684.4 | 3951.8 | 4107.9 | 4155.6 | 4137.0 | 4113.2 | 4137.0 |
| 13861.6 | 35° | 9565.7 | 3586.5 | 3385.3 | 3562.7 | 3824.7 | 3978.2 | 4039.1 | 4041.7 | 4041.7 | 4070.9 |
| 14036.3 | 37.5° | 9062.8 | 3266.2 | 3245.0 | 3485.9 | 3737.4 | 3875.0 | 3962.3 | 3967.6 | 3853.8 | 3861.8 |
| 14332.7 | 40° | 8597.0 | 3131.2 | 3181.5 | 3435.6 | 3652.7 | 3785.0 | 3790.3 | 3493.8 | 3284.7 | 3279.5 |
| 14671.5 | 42.5° | 8215.8 | 3104.8 | 3200.0 | 3430.3 | 3591.8 | 3597.1 | 3223.9 | 2993.6 | 2935.4 | 2938.0 |
| 14983.8 | 45° | 7858.5 | 3096.8 | 3242.4 | 3430.3 | 3501.8 | 3107.4 | 2856.0 | 2795.1 | 2800.4 | 2821.5 |
| 15124.1 | 47.5° | 7458.8 | 3065.1 | 3250.3 | 3382.7 | 3242.4 | 2763.3 | 2689.2 | 2662.7 | 2652.1 | 2657.4 |
| 15092.4 | 50° | 7022.1 | 2951.2 | 3149.8 | 3287.4 | 2797.7 | 2615.1 | 2522.5 | 2514.5 | 2527.7 | 2535.7 |
| 14915.0 | 52.5° | 6561.6 | 2766.0 | 2977.7 | 3115.3 | 2593.9 | 2485.4 | 2382.2 | 2400.7 | 2458.9 | 2477.5 |
| 14729.8 | 55° | 6259.8 | 2548.9 | 2750.1 | 2771.3 | 2451.0 | 2363.6 | 2276.3 | 2318.6 | 2427.2 | 2461.6 |
| 14618.6 | 57.5° | 6180.4 | 2318.6 | 2490.7 | 2466.9 | 2268.4 | 2257.8 | 2204.8 | 2241.9 | 2379.5 | 2429.8 |
| 14613.3 | 60° | 6156.6 | 2112.2 | 2236.6 | 2218.1 | 2091.0 | 2141.3 | 2128.1 | 2146.6 | 2194.2 | 2210.1 |
| 14560.4 | 62.5° | 5971.3 | 1948.1 | 2009.0 | 1982.5 | 1932.2 | 2019.6 | 2051.3 | 2011.6 | 2048.7 | 2067.2 |
| 14197.7 | 65° | 5500.2 | 1815.7 | 1786.6 | 1768.1 | 1789.3 | 1868.7 | 1932.2 | 1852.8 | 1887.2 | 1940.1 |
| 12800.2 | 67.5° | 4722.0 | 1635.8 | 1556.4 | 1577.5 | 1643.7 | 1686.0 | 1768.1 | 1678.1 | 1707.2 | 1797.2 |
| 10309.5 | 70° | 3819.4 | 1408.1 | 1336.7 | 1397.5 | 1461.1 | 1548.4 | 1561.6 | 1500.8 | 1569.6 | 1670.2 |
| 6291.6 | 72.5° | 2702.4 | 1177.9 | 1127.6 | 1252.0 | 1273.1 | 1387.0 | 1357.8 | 1328.7 | 1424.0 | 1458.4 |
| 3110.1 | 75° | 1874.0 | 950.2 | 921.1 | 1016.4 | 1093.2 | 1191.1 | 1169.9 | 1204.3 | 1405.5 | 1421.4 |
| 1553.7 | 77.5° | 1185.8 | 738.5 | 719.9 | 780.8 | 886.7 | 995.2 | 1029.6 | 1421.4 | 2400.7 | 2496.0 |
| 807.3 | 80° | 688.2 | 550.5 | 529.4 | 577.0 | 669.7 | 770.2 | 992.6 | 1744.3 | 1582.8 | 1564.3 |
| 362.6 | 82.5° | 383.8 | 378.5 | 352.0 | 365.3 | 447.3 | 555.8 | 1402.8 | 1228.1 | 997.9 | 1029.6 |
| 145.6 | 85° | 180.0 | 222.3 | 190.6 | 182.6 | 251.5 | 651.1 | 937.0 | 701.4 | 465.8 | 455.3 |
| 31.8 | 87.5° | 47.6 | 42.3 | 42.3 | 47.6 | 105.9 | 561.1 | 373.2 | 299.1 | 177.3 | 172.0 |
| 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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