

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: P954786

Luminaire Tested: **GALN-SB7D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44712 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

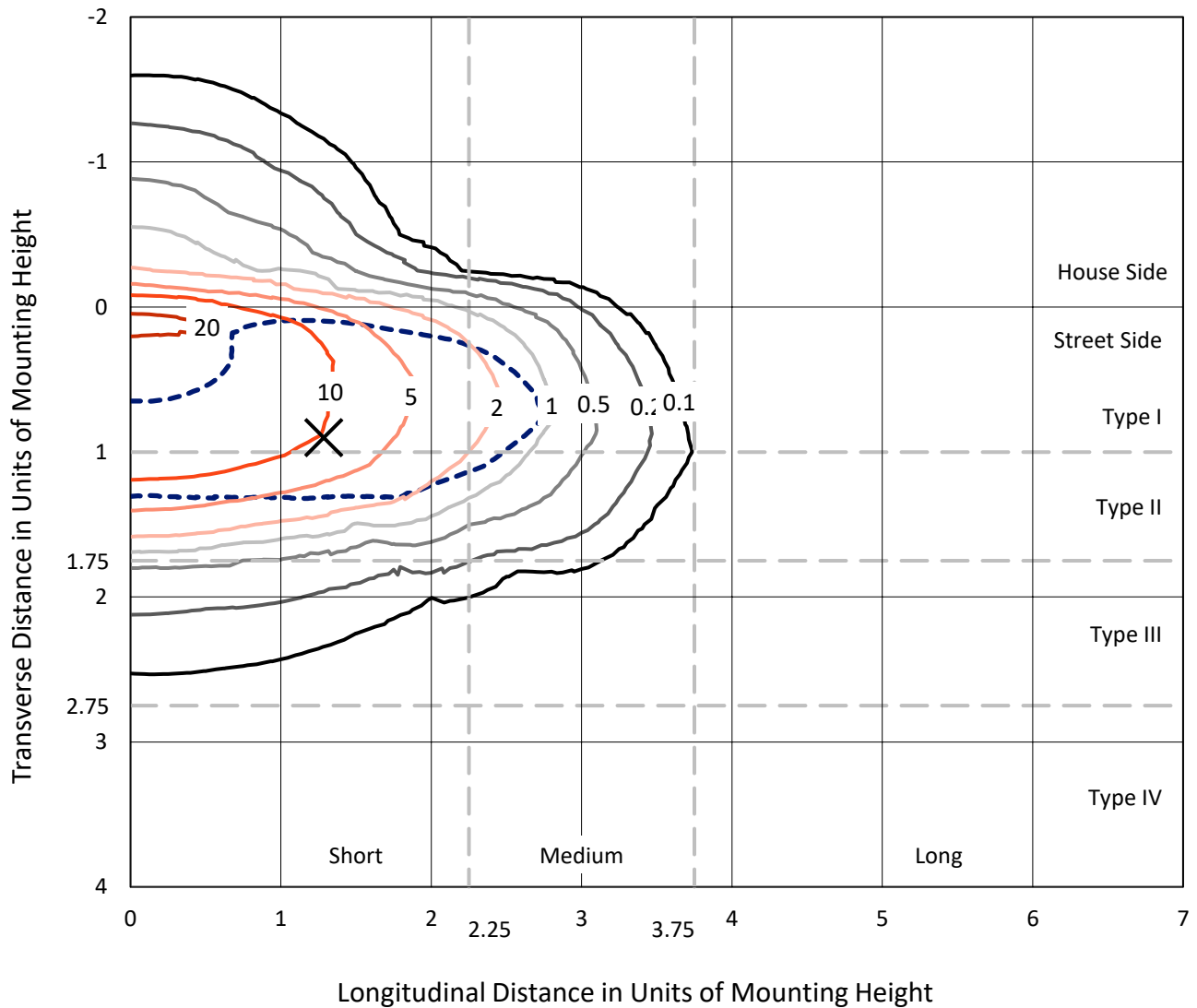
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

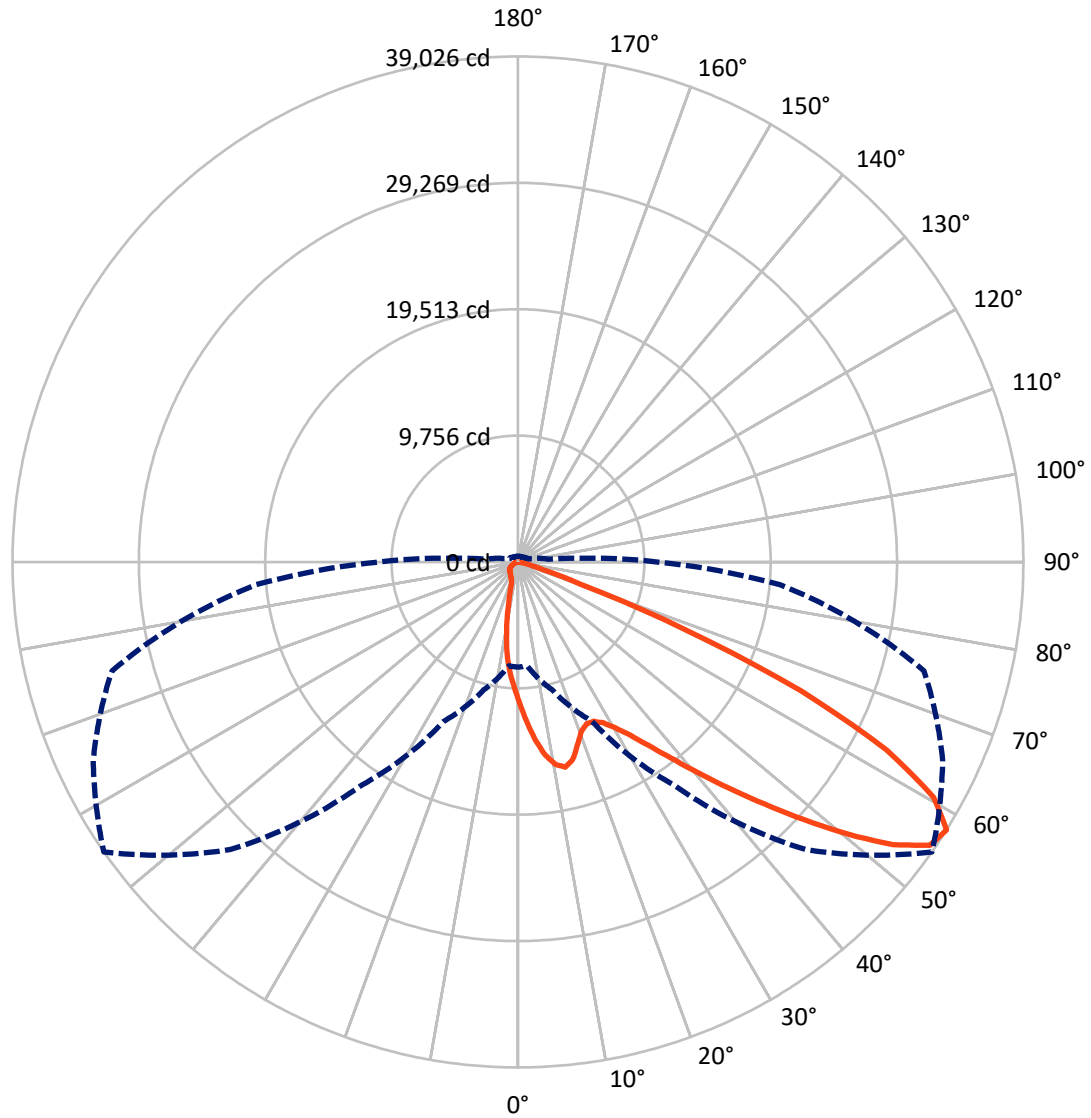
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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 | 3491.8 | 0.0 | 3491.8 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 41220.2 | 0.0 | 41220.2 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 44712.0 | 0.0 | 44712.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1002.5 | 2.2 |
| 10°-20° | 2421.6 | 5.4 |
| 20°-30° | 3874.5 | 8.7 |
| 30°-40° | 6557.8 | 14.7 |
| 40°-50° | 10766.5 | 24.1 |
| 50°-60° | 11833.1 | 26.5 |
| 60°-70° | 6787.5 | 15.2 |
| 70°-80° | 1386.9 | 3.1 |
| 80°-90° | 81.8 | 0.2 |
| 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° | 44712.0 | 100.0 |
| 0°-180° | 44712.0 | 100.0 |

Coefficient of Utilization



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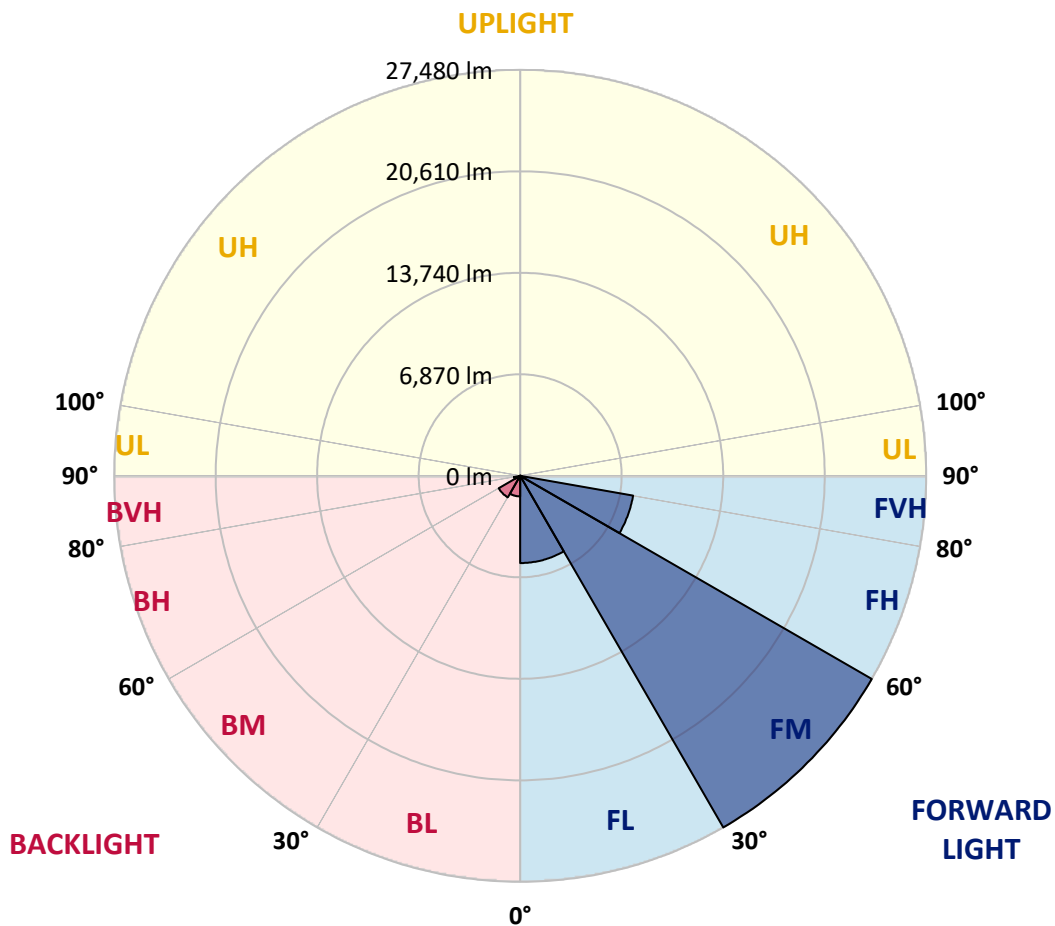
CATALOG NUMBER: GALN-SB7D-940-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 5904.5 | 13.2 | | | |
| FM (30°-60°) | 27480.3 | 61.5 | | | |
| FH (60°-80°) | 7759.1 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 76.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1394.0 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1677.0 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 415.3 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 |
| 2.5° | 13368.9 | 13200.7 | 13175.9 | 13142.8 | 12823.0 | 12583.1 | 12235.7 | 11855.2 | 11427.9 | 10992.3 |
| 5° | 15444.9 | 15312.6 | 15287.8 | 15133.4 | 14769.4 | 14361.4 | 13743.8 | 12963.6 | 12166.8 | 11229.4 |
| 7.5° | 15847.4 | 15822.6 | 15935.7 | 15930.1 | 15880.5 | 15557.9 | 15036.9 | 14107.7 | 12911.2 | 11521.6 |
| 10° | 14052.6 | 14116.0 | 14452.4 | 14747.4 | 15544.2 | 16007.3 | 15894.3 | 15127.8 | 13677.6 | 11855.2 |
| 12.5° | 12417.7 | 12343.2 | 12583.1 | 12916.7 | 13843.1 | 15221.6 | 16250.0 | 15979.8 | 14554.4 | 12233.0 |
| 15° | 11392.1 | 11361.7 | 11496.8 | 11651.2 | 12357.0 | 13746.6 | 15836.4 | 16671.8 | 15398.0 | 12679.6 |
| 17.5° | 11064.0 | 11039.2 | 11080.5 | 11119.1 | 11576.8 | 12652.0 | 14852.1 | 17096.4 | 16205.8 | 13189.7 |
| 20° | 11331.4 | 11298.3 | 11292.8 | 11262.5 | 11452.7 | 12186.1 | 13961.6 | 17126.7 | 16930.9 | 13652.8 |
| 22.5° | 12111.7 | 12073.1 | 11938.0 | 11816.6 | 11833.2 | 12249.5 | 13564.6 | 16823.4 | 17476.8 | 14085.7 |
| 25° | 13526.0 | 13462.6 | 13181.4 | 12773.3 | 12514.2 | 12690.6 | 13625.3 | 16423.7 | 17997.9 | 14424.8 |
| 27.5° | 15296.0 | 15213.3 | 14852.1 | 14245.6 | 13652.8 | 13437.8 | 14063.6 | 16147.9 | 18430.8 | 14684.0 |
| 30° | 17030.2 | 16922.7 | 16567.0 | 16095.6 | 15229.9 | 14551.6 | 14854.9 | 16269.3 | 18946.3 | 14954.2 |
| 32.5° | 18902.2 | 18800.2 | 18328.8 | 17744.3 | 17027.4 | 16114.9 | 15938.4 | 16862.0 | 19577.7 | 15331.9 |
| 35° | 21270.5 | 21110.6 | 20440.7 | 19643.9 | 18882.9 | 17959.3 | 17405.2 | 17884.9 | 20418.6 | 15908.1 |
| 37.5° | 23966.9 | 23751.9 | 23029.5 | 21929.5 | 20936.9 | 19903.0 | 19191.7 | 19291.0 | 21651.0 | 16680.1 |
| 40° | 26508.9 | 26313.1 | 25645.9 | 24609.3 | 23363.1 | 22108.7 | 21350.5 | 21129.9 | 23352.1 | 17620.2 |
| 42.5° | 28033.5 | 27857.1 | 27575.9 | 27137.5 | 26087.1 | 24807.8 | 23851.1 | 23374.1 | 25364.7 | 18745.1 |
| 45° | 28119.0 | 27964.6 | 28342.3 | 28852.4 | 28645.6 | 27793.7 | 26627.4 | 25753.5 | 27385.6 | 19801.0 |
| 47.5° | 26751.5 | 26646.7 | 27793.7 | 29574.7 | 30462.5 | 30820.9 | 29745.6 | 27934.3 | 29053.6 | 20559.2 |
| 50° | 23024.0 | 22985.4 | 25345.4 | 28615.3 | 31154.5 | 33473.2 | 33034.8 | 29963.4 | 30346.7 | 20950.7 |
| 52.5° | 19963.7 | 19823.1 | 21198.8 | 25543.9 | 30148.2 | 34868.2 | 36249.5 | 31954.0 | 31251.0 | 21025.1 |
| 55° | 15141.6 | 15017.6 | 16743.5 | 20404.8 | 26903.1 | 34371.9 | 38601.2 | 34008.0 | 31898.9 | 20834.9 |
| 57.5° | 8122.2 | 8045.0 | 10225.8 | 13581.2 | 21030.7 | 31394.3 | 39025.8 | 36180.6 | 32444.8 | 20330.4 |
| 60° | 3162.3 | 3148.5 | 3964.6 | 6589.3 | 12781.6 | 25541.2 | 36883.6 | 37484.6 | 32786.7 | 19710.0 |
| 62.5° | 1913.4 | 1954.7 | 2087.1 | 2958.3 | 5646.4 | 15866.7 | 31945.8 | 36001.4 | 33015.5 | 19142.1 |
| 65° | 1582.5 | 1585.3 | 1601.8 | 2031.9 | 2704.7 | 6638.9 | 24049.6 | 31121.4 | 32450.3 | 18130.3 |
| 67.5° | 1356.5 | 1381.3 | 1444.7 | 1612.9 | 1907.9 | 2911.4 | 13845.8 | 24107.5 | 29012.3 | 15775.8 |
| 70° | 1069.7 | 1102.8 | 1182.8 | 1326.1 | 1472.3 | 1822.4 | 5117.1 | 16040.4 | 22163.8 | 11891.1 |
| 72.5° | 901.6 | 898.8 | 940.1 | 1078.0 | 1169.0 | 1282.0 | 1968.5 | 8987.9 | 12880.9 | 5676.7 |
| 75° | 697.5 | 725.1 | 777.5 | 901.6 | 956.7 | 929.1 | 1067.0 | 3283.6 | 4615.3 | 1720.4 |
| 77.5° | 545.9 | 567.9 | 614.8 | 736.1 | 791.3 | 658.9 | 614.8 | 1174.5 | 1483.3 | 617.6 |
| 80° | 245.4 | 264.7 | 419.1 | 543.1 | 645.1 | 454.9 | 333.6 | 601.0 | 658.9 | 281.2 |
| 82.5° | 44.1 | 74.4 | 245.4 | 286.7 | 330.8 | 295.0 | 173.7 | 311.5 | 322.6 | 113.0 |
| 85° | 2.8 | 5.5 | 85.5 | 104.8 | 132.3 | 96.5 | 52.4 | 124.1 | 107.5 | 38.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 13.8 | 16.5 | 22.1 | 16.5 | 13.8 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10774.5 | 0° | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 | 10774.5 |
| 10799.3 | 2.5° | 10600.8 | 10209.3 | 9828.8 | 9517.3 | 9335.3 | 9026.5 | 8822.5 | 8789.4 | 8704.0 | 8778.4 |
| 10826.9 | 5° | 10396.8 | 9696.5 | 8987.9 | 8353.8 | 7832.7 | 7160.0 | 6658.2 | 6445.9 | 6261.2 | 6324.6 |
| 10898.6 | 7.5° | 10300.3 | 9194.7 | 8091.9 | 7008.4 | 5894.5 | 4819.3 | 4019.8 | 3686.2 | 3432.5 | 3468.3 |
| 10978.5 | 10° | 10170.7 | 8673.6 | 6945.0 | 5290.7 | 3799.2 | 2737.7 | 2186.3 | 1982.3 | 1869.3 | 1872.0 |
| 11097.1 | 12.5° | 10071.4 | 8050.5 | 5613.3 | 3586.9 | 2313.2 | 1748.0 | 1577.0 | 1527.4 | 1494.3 | 1497.1 |
| 11276.3 | 15° | 10021.8 | 7317.2 | 4298.2 | 2390.3 | 1654.2 | 1480.5 | 1439.2 | 1417.1 | 1395.1 | 1392.3 |
| 11474.8 | 17.5° | 9939.1 | 6501.1 | 3145.8 | 1745.2 | 1447.4 | 1386.8 | 1350.9 | 1326.1 | 1298.6 | 1293.0 |
| 11645.7 | 20° | 9815.0 | 5574.7 | 2299.4 | 1475.0 | 1356.5 | 1309.6 | 1260.0 | 1226.9 | 1193.8 | 1188.3 |
| 11753.2 | 22.5° | 9586.2 | 4596.0 | 1767.3 | 1364.7 | 1290.3 | 1237.9 | 1177.3 | 1138.7 | 1105.6 | 1100.1 |
| 11700.9 | 25° | 9161.6 | 3677.9 | 1488.8 | 1295.8 | 1232.4 | 1169.0 | 1102.8 | 1050.4 | 1020.1 | 1014.6 |
| 11587.8 | 27.5° | 8624.0 | 2889.4 | 1350.9 | 1232.4 | 1158.0 | 1100.1 | 1025.6 | 976.0 | 948.4 | 942.9 |
| 11438.9 | 30° | 7989.9 | 2224.9 | 1271.0 | 1160.7 | 1069.7 | 1020.1 | 953.9 | 912.6 | 896.0 | 896.0 |
| 11334.2 | 32.5° | 7306.1 | 1778.3 | 1237.9 | 1089.0 | 992.5 | 937.4 | 885.0 | 868.5 | 863.0 | 860.2 |
| 11392.1 | 35° | 6663.8 | 1543.9 | 1221.4 | 1031.1 | 923.6 | 871.2 | 849.2 | 851.9 | 863.0 | 863.0 |
| 11571.3 | 37.5° | 6093.0 | 1469.5 | 1213.1 | 989.8 | 863.0 | 816.1 | 829.9 | 854.7 | 843.7 | 843.7 |
| 11885.6 | 40° | 5577.5 | 1477.8 | 1207.6 | 959.4 | 813.3 | 785.8 | 813.3 | 794.0 | 766.5 | 763.7 |
| 12268.8 | 42.5° | 5183.2 | 1546.7 | 1196.6 | 934.6 | 783.0 | 763.7 | 752.7 | 722.3 | 719.6 | 725.1 |
| 12665.8 | 45° | 4896.5 | 1607.4 | 1193.8 | 923.6 | 749.9 | 714.1 | 700.3 | 670.0 | 725.1 | 738.9 |
| 12828.5 | 47.5° | 4557.4 | 1607.4 | 1193.8 | 885.0 | 694.8 | 681.0 | 658.9 | 625.8 | 681.0 | 694.8 |
| 12674.1 | 50° | 4119.0 | 1505.3 | 1146.9 | 840.9 | 650.7 | 642.4 | 603.8 | 562.4 | 551.4 | 559.7 |
| 12312.9 | 52.5° | 3564.8 | 1320.6 | 1028.4 | 780.2 | 606.5 | 590.0 | 543.1 | 512.8 | 504.5 | 504.5 |
| 11665.0 | 55° | 2933.5 | 1105.6 | 868.5 | 692.0 | 559.7 | 529.4 | 496.3 | 482.5 | 474.2 | 468.7 |
| 10757.9 | 57.5° | 2384.8 | 907.1 | 697.5 | 614.8 | 515.6 | 477.0 | 465.9 | 449.4 | 435.6 | 427.3 |
| 9999.8 | 60° | 1957.5 | 714.1 | 576.2 | 545.9 | 471.5 | 435.6 | 432.9 | 410.8 | 375.0 | 369.4 |
| 9373.9 | 62.5° | 1510.9 | 523.8 | 485.2 | 474.2 | 427.3 | 397.0 | 391.5 | 347.4 | 292.2 | 281.2 |
| 8486.2 | 65° | 1067.0 | 408.0 | 391.5 | 416.3 | 380.5 | 352.9 | 339.1 | 272.9 | 215.0 | 206.8 |
| 7102.1 | 67.5° | 749.9 | 341.9 | 308.8 | 363.9 | 330.8 | 295.0 | 286.7 | 231.6 | 179.2 | 173.7 |
| 5370.7 | 70° | 534.9 | 278.5 | 253.6 | 311.5 | 264.7 | 259.2 | 242.6 | 193.0 | 146.1 | 140.6 |
| 2657.8 | 72.5° | 377.7 | 212.3 | 195.7 | 270.2 | 182.0 | 223.3 | 198.5 | 148.9 | 110.3 | 104.8 |
| 904.3 | 75° | 278.5 | 151.6 | 137.9 | 157.2 | 132.3 | 168.2 | 140.6 | 99.3 | 68.9 | 66.2 |
| 408.0 | 77.5° | 204.0 | 96.5 | 82.7 | 77.2 | 77.2 | 104.8 | 77.2 | 41.4 | 30.3 | 27.6 |
| 206.8 | 80° | 143.4 | 44.1 | 38.6 | 33.1 | 30.3 | 24.8 | 11.0 | 5.5 | 2.8 | 2.8 |
| 71.7 | 82.5° | 85.5 | 19.3 | 19.3 | 13.8 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.6 | 85° | 19.3 | 8.3 | 8.3 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.0 | 87.5° | 2.8 | 2.8 | 0.0 | 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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