

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: P951153

Luminaire Tested: **GALN-SB5B-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951153
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-SB5B-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA 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: 14763 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

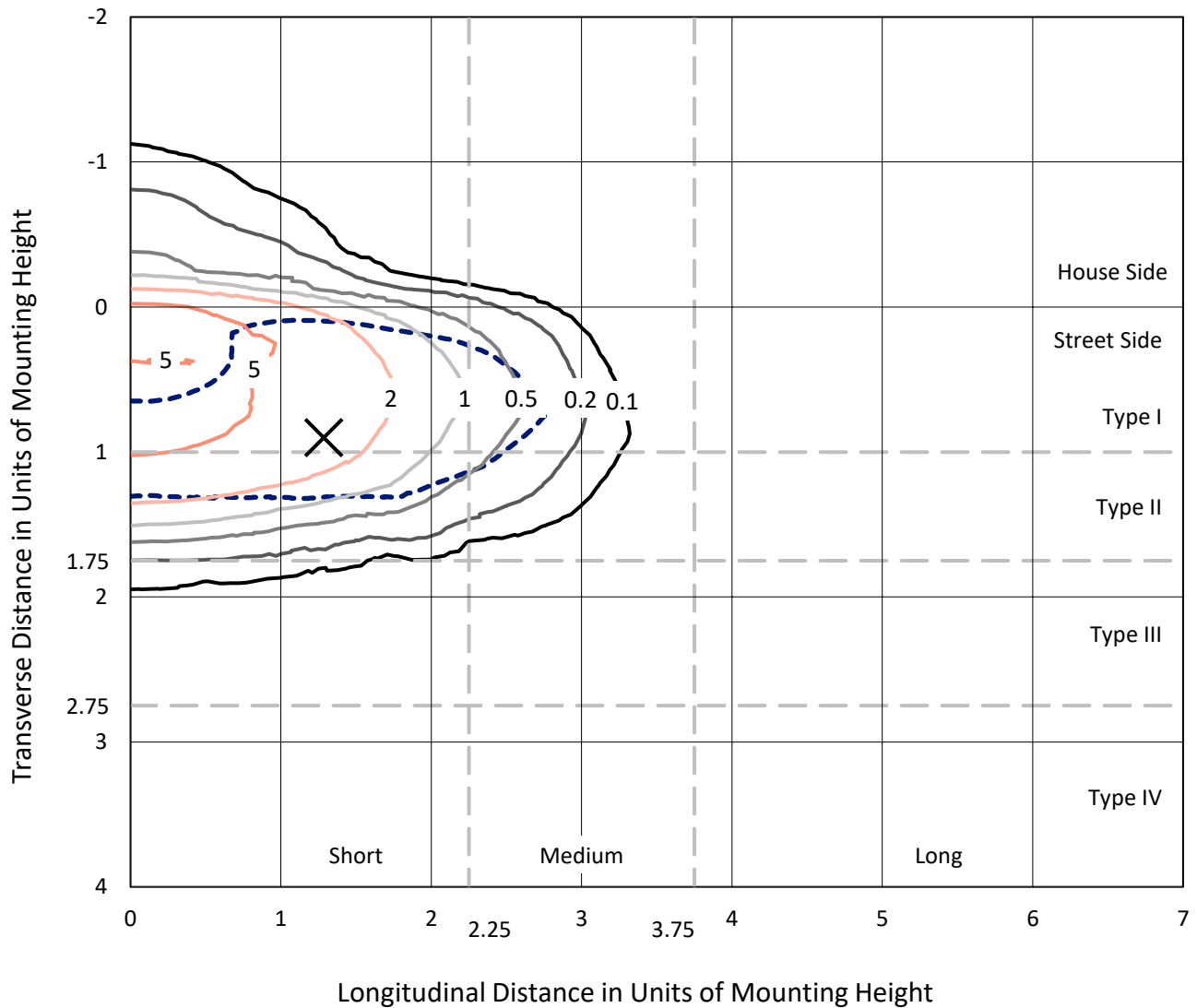
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

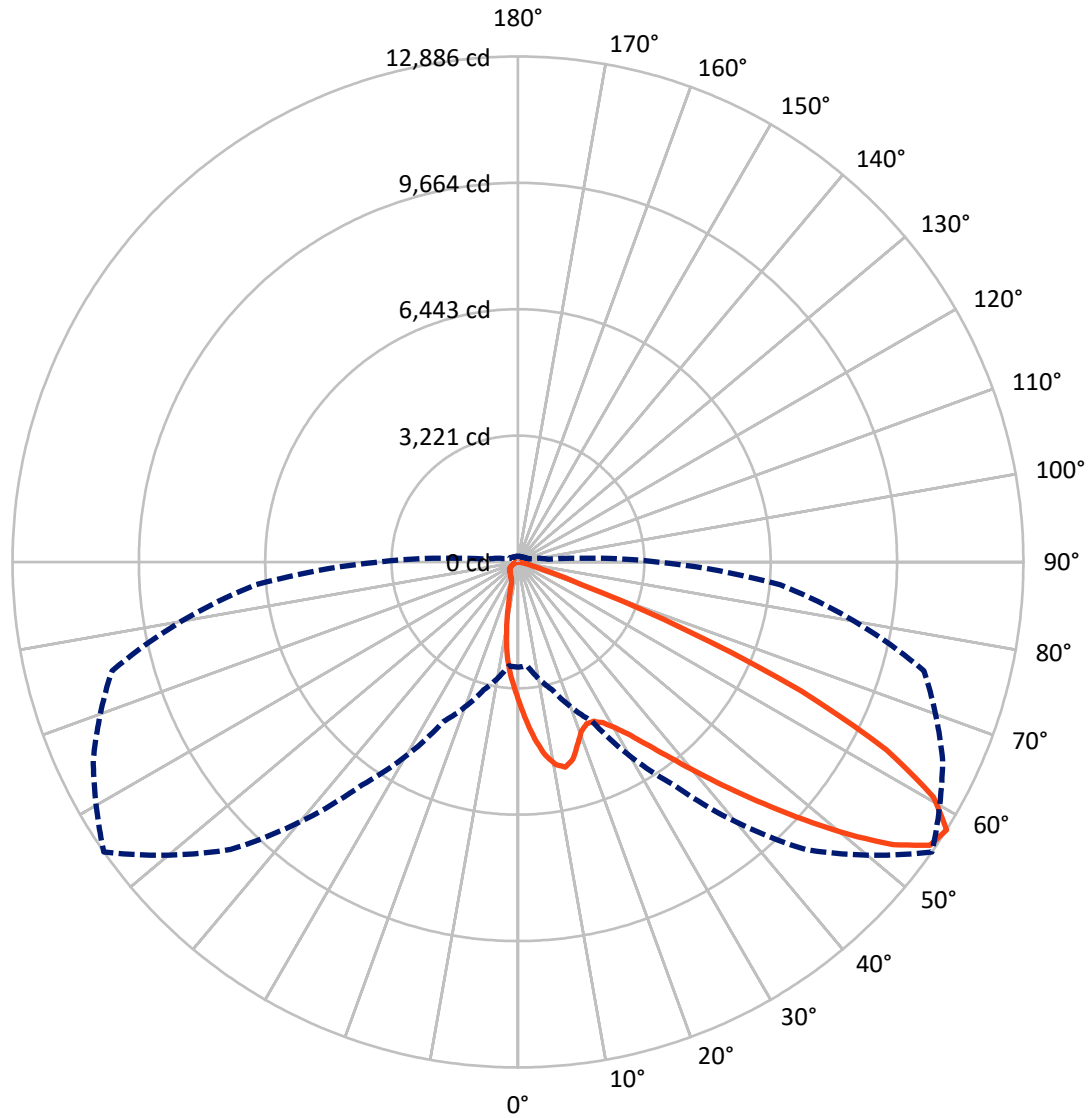
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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 | 1152.9 | 0.0 | 1152.9 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 13610.1 | 0.0 | 13610.1 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 14763.0 | 0.0 | 14763.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 331.0 | 2.2 |
| 10°-20° | 799.5 | 5.4 |
| 20°-30° | 1279.3 | 8.7 |
| 30°-40° | 2165.2 | 14.7 |
| 40°-50° | 3554.9 | 24.1 |
| 50°-60° | 3907.0 | 26.5 |
| 60°-70° | 2241.1 | 15.2 |
| 70°-80° | 457.9 | 3.1 |
| 80°-90° | 27.0 | 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° | 14763.0 | 100.0 |
| 0°-180° | 14763.0 | 100.0 |

Coefficient of Utilization



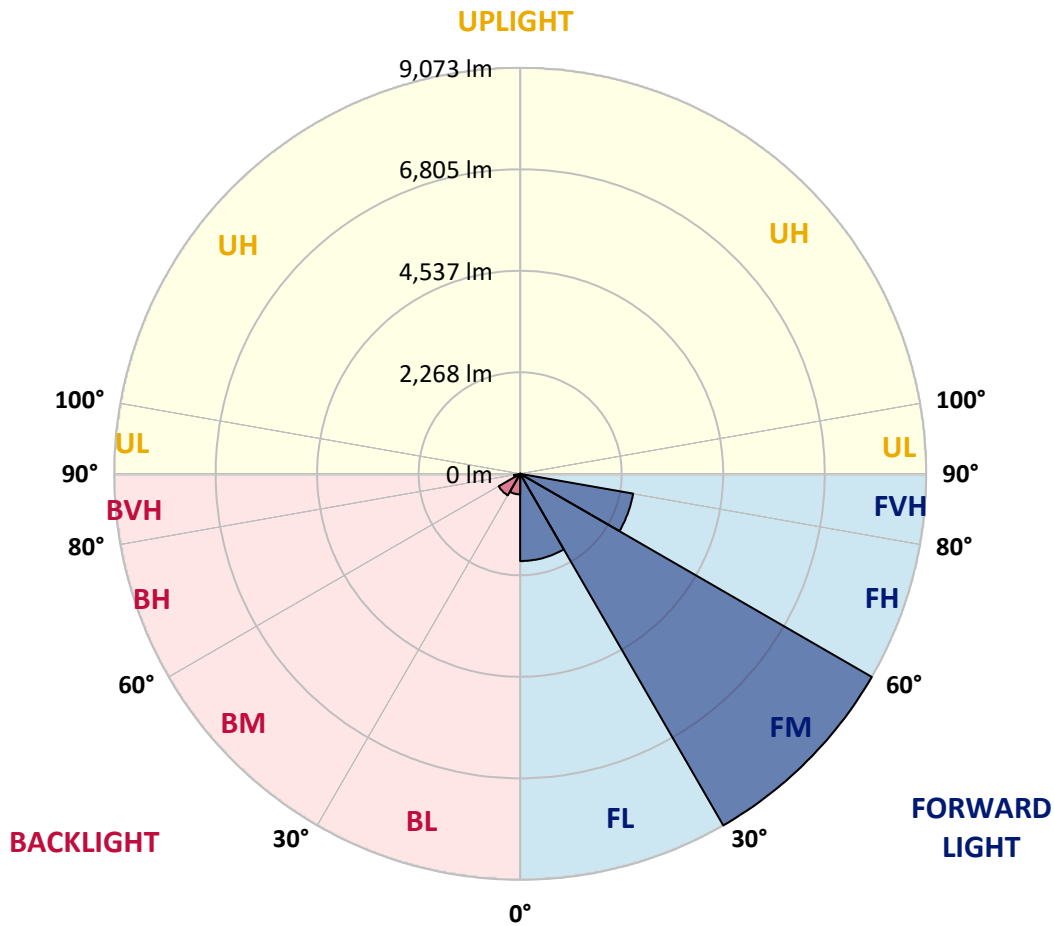
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1949.5 | 13.2 | | | |
| FM (30°-60°) | 9073.4 | 61.5 | | | |
| FH (60°-80°) | 2561.9 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 25.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 460.3 | 3.1 | B1/500 | | |
| BM (30°-60°) | 553.7 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 137.1 | 0.9 | 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 II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 |
| 2.5° | 4414.1 | 4358.6 | 4350.4 | 4339.5 | 4233.9 | 4154.7 | 4040.0 | 3914.4 | 3773.3 | 3629.4 |
| 5° | 5099.6 | 5055.9 | 5047.7 | 4996.7 | 4876.6 | 4741.8 | 4537.9 | 4280.3 | 4017.2 | 3707.7 |
| 7.5° | 5232.5 | 5224.3 | 5261.6 | 5259.8 | 5243.4 | 5136.9 | 4964.9 | 4658.1 | 4263.0 | 3804.2 |
| 10° | 4639.9 | 4660.8 | 4771.9 | 4869.3 | 5132.4 | 5285.3 | 5248.0 | 4994.9 | 4516.1 | 3914.4 |
| 12.5° | 4100.1 | 4075.5 | 4154.7 | 4264.8 | 4570.7 | 5025.9 | 5365.4 | 5276.2 | 4805.6 | 4039.1 |
| 15° | 3761.4 | 3751.4 | 3796.0 | 3847.0 | 4080.0 | 4538.8 | 5228.9 | 5504.7 | 5084.1 | 4186.5 |
| 17.5° | 3653.1 | 3644.9 | 3658.6 | 3671.3 | 3822.4 | 4177.4 | 4903.9 | 5644.9 | 5350.8 | 4355.0 |
| 20° | 3741.4 | 3730.5 | 3728.7 | 3718.6 | 3781.5 | 4023.6 | 4609.8 | 5654.9 | 5590.3 | 4507.9 |
| 22.5° | 3999.0 | 3986.3 | 3941.7 | 3901.6 | 3907.1 | 4044.5 | 4478.8 | 5554.8 | 5770.5 | 4650.8 |
| 25° | 4466.0 | 4445.1 | 4352.2 | 4217.5 | 4131.9 | 4190.2 | 4498.8 | 5422.8 | 5942.5 | 4762.8 |
| 27.5° | 5050.4 | 5023.1 | 4903.9 | 4703.6 | 4507.9 | 4436.9 | 4643.5 | 5331.7 | 6085.5 | 4848.3 |
| 30° | 5623.0 | 5587.5 | 5470.1 | 5314.4 | 5028.6 | 4804.7 | 4904.8 | 5371.8 | 6255.7 | 4937.6 |
| 32.5° | 6241.1 | 6207.5 | 6051.8 | 5858.8 | 5622.1 | 5320.8 | 5262.5 | 5567.5 | 6464.2 | 5062.3 |
| 35° | 7023.1 | 6970.3 | 6749.1 | 6486.0 | 6234.8 | 5929.8 | 5746.8 | 5905.2 | 6741.8 | 5252.5 |
| 37.5° | 7913.4 | 7842.4 | 7603.9 | 7240.7 | 6912.9 | 6571.6 | 6336.7 | 6369.5 | 7148.7 | 5507.4 |
| 40° | 8752.7 | 8688.1 | 8467.8 | 8125.5 | 7714.0 | 7299.8 | 7049.5 | 6976.7 | 7710.4 | 5817.8 |
| 42.5° | 9256.1 | 9197.8 | 9105.0 | 8960.3 | 8613.4 | 8191.0 | 7875.2 | 7717.7 | 8374.9 | 6189.2 |
| 45° | 9284.3 | 9233.3 | 9358.1 | 9526.5 | 9458.2 | 9176.9 | 8791.8 | 8503.3 | 9042.2 | 6537.9 |
| 47.5° | 8832.8 | 8798.2 | 9176.9 | 9765.0 | 10058.1 | 10176.4 | 9821.4 | 9223.3 | 9592.9 | 6788.2 |
| 50° | 7602.1 | 7589.3 | 8368.5 | 9448.2 | 10286.6 | 11052.2 | 10907.4 | 9893.3 | 10019.9 | 6917.5 |
| 52.5° | 6591.6 | 6545.2 | 6999.4 | 8434.1 | 9954.3 | 11512.8 | 11968.8 | 10550.6 | 10318.4 | 6942.1 |
| 55° | 4999.5 | 4958.5 | 5528.4 | 6737.3 | 8882.9 | 11348.9 | 12745.3 | 11228.8 | 10532.4 | 6879.3 |
| 57.5° | 2681.8 | 2656.3 | 3376.4 | 4484.2 | 6943.9 | 10365.8 | 12885.5 | 11946.1 | 10712.6 | 6712.7 |
| 60° | 1044.1 | 1039.6 | 1309.0 | 2175.7 | 4220.2 | 8433.2 | 12178.2 | 12376.7 | 10825.5 | 6507.9 |
| 62.5° | 631.8 | 645.4 | 689.1 | 976.8 | 1864.3 | 5238.9 | 10547.8 | 11886.9 | 10901.0 | 6320.3 |
| 65° | 522.5 | 523.4 | 528.9 | 670.9 | 893.0 | 2192.0 | 7940.7 | 10275.7 | 10714.4 | 5986.2 |
| 67.5° | 447.9 | 456.1 | 477.0 | 532.5 | 629.9 | 961.3 | 4571.6 | 7959.8 | 9579.3 | 5208.8 |
| 70° | 353.2 | 364.1 | 390.5 | 437.9 | 486.1 | 601.7 | 1689.5 | 5296.2 | 7318.0 | 3926.2 |
| 72.5° | 297.7 | 296.8 | 310.4 | 355.9 | 386.0 | 423.3 | 650.0 | 2967.6 | 4253.0 | 1874.3 |
| 75° | 230.3 | 239.4 | 256.7 | 297.7 | 315.9 | 306.8 | 352.3 | 1084.2 | 1523.9 | 568.0 |
| 77.5° | 180.2 | 187.5 | 203.0 | 243.1 | 261.3 | 217.6 | 203.0 | 387.8 | 489.8 | 203.9 |
| 80° | 81.0 | 87.4 | 138.4 | 179.3 | 213.0 | 150.2 | 110.1 | 198.4 | 217.6 | 92.9 |
| 82.5° | 14.6 | 24.6 | 81.0 | 94.7 | 109.2 | 97.4 | 57.3 | 102.9 | 106.5 | 37.3 |
| 85° | 0.9 | 1.8 | 28.2 | 34.6 | 43.7 | 31.9 | 17.3 | 41.0 | 35.5 | 12.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 4.6 | 5.5 | 7.3 | 5.5 | 4.6 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3557.5 | 0° | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 | 3557.5 |
| 3565.7 | 2.5° | 3500.2 | 3370.9 | 3245.3 | 3142.4 | 3082.3 | 2980.4 | 2913.0 | 2902.1 | 2873.9 | 2898.4 |
| 3574.8 | 5° | 3432.8 | 3201.6 | 2967.6 | 2758.3 | 2586.2 | 2364.1 | 2198.4 | 2128.3 | 2067.3 | 2088.3 |
| 3598.5 | 7.5° | 3400.9 | 3035.9 | 2671.8 | 2314.0 | 1946.3 | 1591.2 | 1327.2 | 1217.1 | 1133.3 | 1145.2 |
| 3624.9 | 10° | 3358.2 | 2863.9 | 2293.1 | 1746.9 | 1254.4 | 903.9 | 721.9 | 654.5 | 617.2 | 618.1 |
| 3664.0 | 12.5° | 3325.4 | 2658.1 | 1853.4 | 1184.3 | 763.8 | 577.1 | 520.7 | 504.3 | 493.4 | 494.3 |
| 3723.2 | 15° | 3309.0 | 2416.0 | 1419.2 | 789.2 | 546.2 | 488.8 | 475.2 | 467.9 | 460.6 | 459.7 |
| 3788.7 | 17.5° | 3281.7 | 2146.5 | 1038.7 | 576.2 | 477.9 | 457.9 | 446.1 | 437.9 | 428.8 | 426.9 |
| 3845.2 | 20° | 3240.7 | 1840.7 | 759.2 | 487.0 | 447.9 | 432.4 | 416.0 | 405.1 | 394.2 | 392.3 |
| 3880.7 | 22.5° | 3165.2 | 1517.5 | 583.5 | 450.6 | 426.0 | 408.7 | 388.7 | 376.0 | 365.0 | 363.2 |
| 3863.4 | 25° | 3025.0 | 1214.4 | 491.6 | 427.8 | 406.9 | 386.0 | 364.1 | 346.8 | 336.8 | 335.0 |
| 3826.1 | 27.5° | 2847.5 | 954.0 | 446.1 | 406.9 | 382.3 | 363.2 | 338.6 | 322.3 | 313.1 | 311.3 |
| 3776.9 | 30° | 2638.1 | 734.6 | 419.7 | 383.2 | 353.2 | 336.8 | 315.0 | 301.3 | 295.9 | 295.9 |
| 3742.3 | 32.5° | 2412.3 | 587.2 | 408.7 | 359.6 | 327.7 | 309.5 | 292.2 | 286.7 | 284.9 | 284.0 |
| 3761.4 | 35° | 2200.2 | 509.8 | 403.3 | 340.5 | 305.0 | 287.7 | 280.4 | 281.3 | 284.9 | 284.9 |
| 3820.6 | 37.5° | 2011.8 | 485.2 | 400.5 | 326.8 | 284.9 | 269.5 | 274.0 | 282.2 | 278.6 | 278.6 |
| 3924.4 | 40° | 1841.6 | 487.9 | 398.7 | 316.8 | 268.5 | 259.4 | 268.5 | 262.2 | 253.1 | 252.2 |
| 4050.9 | 42.5° | 1711.4 | 510.7 | 395.1 | 308.6 | 258.5 | 252.2 | 248.5 | 238.5 | 237.6 | 239.4 |
| 4182.0 | 45° | 1616.7 | 530.7 | 394.2 | 305.0 | 247.6 | 235.8 | 231.2 | 221.2 | 239.4 | 244.0 |
| 4235.7 | 47.5° | 1504.8 | 530.7 | 394.2 | 292.2 | 229.4 | 224.8 | 217.6 | 206.6 | 224.8 | 229.4 |
| 4184.7 | 50° | 1360.0 | 497.0 | 378.7 | 277.6 | 214.8 | 212.1 | 199.4 | 185.7 | 182.1 | 184.8 |
| 4065.5 | 52.5° | 1177.0 | 436.0 | 339.5 | 257.6 | 200.3 | 194.8 | 179.3 | 169.3 | 166.6 | 166.6 |
| 3851.6 | 55° | 968.6 | 365.0 | 286.7 | 228.5 | 184.8 | 174.8 | 163.9 | 159.3 | 156.6 | 154.8 |
| 3552.1 | 57.5° | 787.4 | 299.5 | 230.3 | 203.0 | 170.2 | 157.5 | 153.8 | 148.4 | 143.8 | 141.1 |
| 3301.7 | 60° | 646.3 | 235.8 | 190.3 | 180.2 | 155.7 | 143.8 | 142.9 | 135.6 | 123.8 | 122.0 |
| 3095.1 | 62.5° | 498.9 | 173.0 | 160.2 | 156.6 | 141.1 | 131.1 | 129.3 | 114.7 | 96.5 | 92.9 |
| 2802.0 | 65° | 352.3 | 134.7 | 129.3 | 137.5 | 125.6 | 116.5 | 112.0 | 90.1 | 71.0 | 68.3 |
| 2345.0 | 67.5° | 247.6 | 112.9 | 102.0 | 120.2 | 109.2 | 97.4 | 94.7 | 76.5 | 59.2 | 57.3 |
| 1773.3 | 70° | 176.6 | 91.9 | 83.7 | 102.9 | 87.4 | 85.6 | 80.1 | 63.7 | 48.2 | 46.4 |
| 877.5 | 72.5° | 124.7 | 70.1 | 64.6 | 89.2 | 60.1 | 73.7 | 65.5 | 49.2 | 36.4 | 34.6 |
| 298.6 | 75° | 91.9 | 50.1 | 45.5 | 51.9 | 43.7 | 55.5 | 46.4 | 32.8 | 22.8 | 21.8 |
| 134.7 | 77.5° | 67.4 | 31.9 | 27.3 | 25.5 | 25.5 | 34.6 | 25.5 | 13.7 | 10.0 | 9.1 |
| 68.3 | 80° | 47.3 | 14.6 | 12.7 | 10.9 | 10.0 | 8.2 | 3.6 | 1.8 | 0.9 | 0.9 |
| 23.7 | 82.5° | 28.2 | 6.4 | 6.4 | 4.6 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9.1 | 85° | 6.4 | 2.7 | 2.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3.6 | 87.5° | 0.9 | 0.9 | 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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