

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: P946206

Luminaire Tested: **GALN-SB1D-935-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1D-935-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

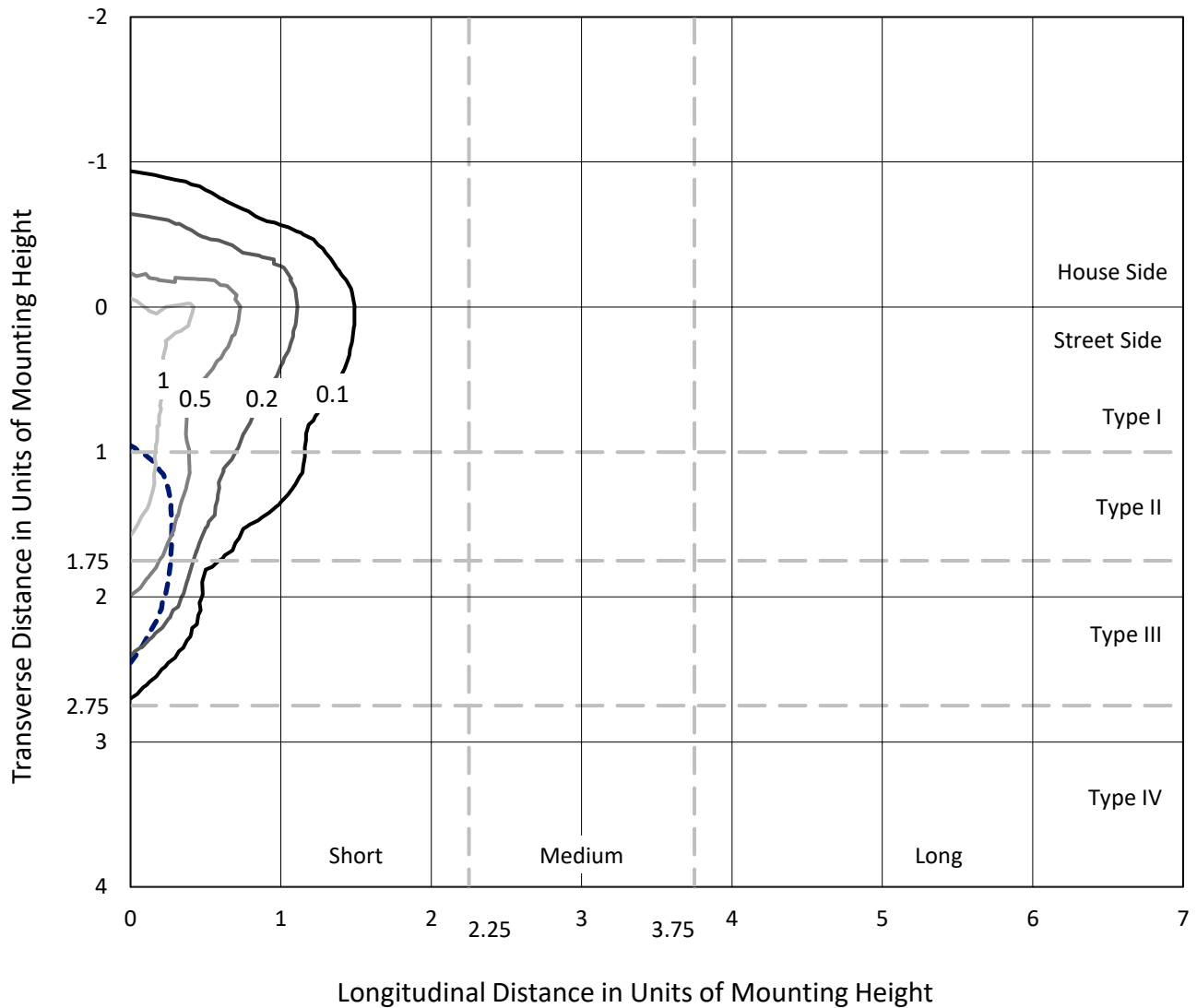
Lumens per Lamp: N/A  
Luminaire Lumens: 5404 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

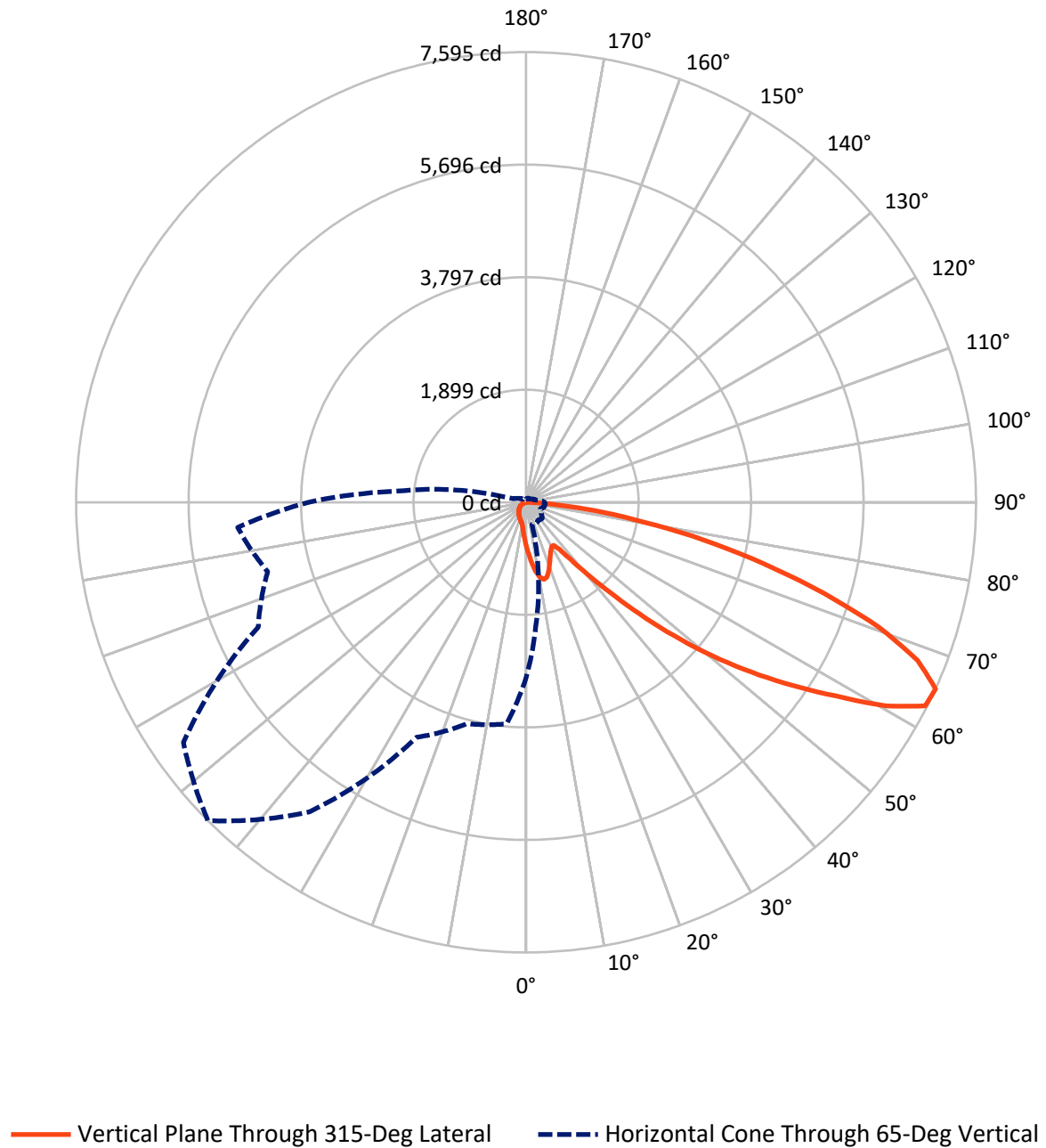
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 756.8    | 0.0    | 756.8  |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 4647.2   | 0.0    | 4647.2 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 5404.0   | 0.0    | 5404.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.7   | 1.4       |
| 10°-20°   | 220.8  | 4.1       |
| 20°-30°   | 325.3  | 6.0       |
| 30°-40°   | 418.0  | 7.7       |
| 40°-50°   | 676.0  | 12.5      |
| 50°-60°   | 1185.4 | 21.9      |
| 60°-70°   | 1483.3 | 27.4      |
| 70°-80°   | 866.8  | 16.0      |
| 80°-90°   | 154.6  | 2.9       |
| 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°    | 5404.0 | 100.0     |
| 0°-180°   | 5404.0 | 100.0     |

**Coefficient of Utilization**



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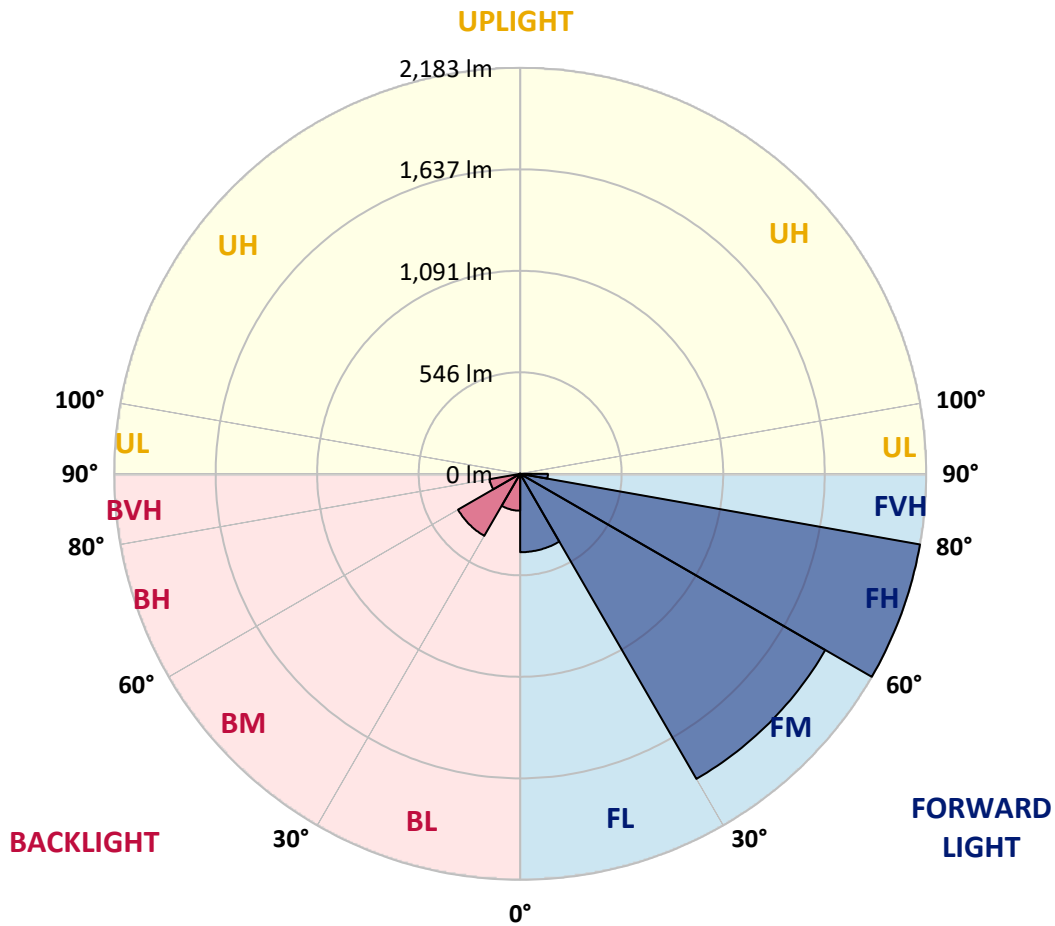
CATALOG NUMBER: GALN-SB1D-935-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 421.5  | 7.8       |                         |      |         |
| FM (30°-60°)   | 1894.0 | 35.0      |                         |      |         |
| FH (60°-80°)   | 2183.0 | 40.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 148.7  | 2.8       |                         |      | G2/225  |
| BL (0°-30°)    | 198.4  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 385.4  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 167.1  | 3.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.9    | 0.1       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 748.3  | 748.3  | 748.3  | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 |
| 2.5°  | 845.4  | 830.9  | 822.4  | 801.1 | 779.9 | 762.8 | 739.7 | 724.5 | 706.2 | 688.7 |
| 5°    | 942.2  | 918.8  | 890.5  | 851.8 | 816.4 | 780.3 | 745.3 | 710.7 | 674.2 | 640.7 |
| 7.5°  | 1024.1 | 990.3  | 940.4  | 889.0 | 844.0 | 800.4 | 759.4 | 713.7 | 669.4 | 616.9 |
| 10°   | 1086.7 | 1043.5 | 978.0  | 910.6 | 858.8 | 814.9 | 775.1 | 736.4 | 691.7 | 628.4 |
| 12.5° | 1124.7 | 1078.5 | 1000.7 | 921.8 | 862.6 | 813.4 | 782.5 | 765.4 | 747.9 | 685.0 |
| 15°   | 1152.6 | 1102.7 | 1016.7 | 929.6 | 854.0 | 793.7 | 771.0 | 788.1 | 808.2 | 768.0 |
| 17.5° | 1181.6 | 1129.1 | 1037.5 | 932.9 | 830.9 | 755.4 | 745.7 | 790.0 | 836.5 | 834.6 |
| 20°   | 1209.2 | 1157.0 | 1055.8 | 930.7 | 793.7 | 708.8 | 717.4 | 774.0 | 827.9 | 850.7 |
| 22.5° | 1240.8 | 1185.7 | 1073.3 | 922.1 | 745.3 | 665.3 | 692.1 | 748.7 | 795.9 | 822.7 |
| 25°   | 1279.5 | 1221.8 | 1097.9 | 909.5 | 693.2 | 629.2 | 666.4 | 719.2 | 757.6 | 776.2 |
| 27.5° | 1321.2 | 1265.0 | 1130.6 | 902.8 | 651.1 | 603.5 | 637.3 | 684.2 | 718.5 | 731.5 |
| 30°   | 1373.0 | 1315.3 | 1169.3 | 895.3 | 623.6 | 588.6 | 607.2 | 643.7 | 677.2 | 690.2 |
| 32.5° | 1429.6 | 1371.1 | 1206.6 | 877.5 | 606.8 | 577.4 | 577.8 | 600.9 | 631.4 | 647.0 |
| 35°   | 1500.3 | 1438.1 | 1246.4 | 838.4 | 593.4 | 564.4 | 549.1 | 560.3 | 585.6 | 604.2 |
| 37.5° | 1601.2 | 1526.0 | 1295.2 | 782.5 | 573.7 | 544.3 | 519.0 | 521.6 | 540.9 | 561.4 |
| 40°   | 1740.4 | 1644.0 | 1352.5 | 724.5 | 545.4 | 516.0 | 485.8 | 484.7 | 498.9 | 519.0 |
| 42.5° | 1928.8 | 1800.0 | 1421.4 | 669.0 | 518.2 | 481.7 | 450.8 | 449.0 | 460.1 | 477.6 |
| 45°   | 2177.5 | 1999.5 | 1505.9 | 621.3 | 497.0 | 448.2 | 417.7 | 417.0 | 426.3 | 441.5 |
| 47.5° | 2495.8 | 2276.9 | 1590.4 | 588.9 | 485.8 | 421.8 | 390.5 | 392.0 | 400.2 | 414.0 |
| 50°   | 2907.9 | 2638.3 | 1616.1 | 572.6 | 485.8 | 407.6 | 366.3 | 373.8 | 380.5 | 390.9 |
| 52.5° | 3401.9 | 2985.3 | 1531.2 | 557.7 | 488.8 | 409.5 | 345.8 | 361.9 | 366.7 | 375.6 |
| 55°   | 3859.8 | 3155.4 | 1316.4 | 537.2 | 489.5 | 421.0 | 328.4 | 352.2 | 361.1 | 364.5 |
| 57.5° | 4125.6 | 3097.0 | 1064.3 | 502.6 | 486.6 | 428.9 | 317.2 | 340.3 | 357.4 | 359.6 |
| 60°   | 4075.0 | 2891.9 | 783.6  | 476.1 | 464.6 | 425.9 | 313.8 | 322.0 | 349.2 | 352.5 |
| 62.5° | 3684.8 | 2547.9 | 543.9  | 455.7 | 416.2 | 412.9 | 312.7 | 293.4 | 331.3 | 339.5 |
| 65°   | 2961.9 | 2005.8 | 384.2  | 392.4 | 364.8 | 384.6 | 306.8 | 263.6 | 309.7 | 320.9 |
| 67.5° | 2148.8 | 1357.3 | 277.3  | 317.9 | 330.6 | 338.8 | 293.4 | 242.0 | 285.2 | 300.1 |
| 70°   | 1378.9 | 733.0  | 194.7  | 210.0 | 278.5 | 287.8 | 270.3 | 222.6 | 260.2 | 277.3 |
| 72.5° | 980.2  | 433.0  | 140.0  | 147.1 | 223.7 | 239.7 | 237.9 | 201.0 | 231.2 | 252.0 |
| 75°   | 676.4  | 238.6  | 94.6   | 105.0 | 162.3 | 194.7 | 183.5 | 172.7 | 195.8 | 217.0 |
| 77.5° | 424.0  | 106.8  | 56.6   | 73.0  | 106.5 | 153.0 | 125.8 | 133.6 | 152.6 | 172.4 |
| 80°   | 236.0  | 41.3   | 31.6   | 48.4  | 58.1  | 111.3 | 69.6  | 86.0  | 112.4 | 126.6 |
| 82.5° | 51.4   | 5.2    | 14.1   | 20.8  | 22.7  | 64.8  | 36.9  | 49.9  | 70.7  | 69.6  |
| 85°   | 0.0    | 0.0    | 2.6    | 3.0   | 1.5   | 27.9  | 13.4  | 16.4  | 23.1  | 21.6  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   |
| 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 748.3 | 0°    | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 |
| 673.1 | 2.5°  | 670.1 | 651.9 | 638.5 | 631.8 | 626.2 | 631.4 | 634.4 | 634.4 | 647.0 | 654.5 |
| 620.2 | 5°    | 607.2 | 574.4 | 549.5 | 532.7 | 522.7 | 526.0 | 529.8 | 533.8 | 549.9 | 560.7 |
| 588.9 | 7.5°  | 563.6 | 513.4 | 475.4 | 451.9 | 439.7 | 441.5 | 444.1 | 447.5 | 463.1 | 473.9 |
| 593.4 | 10°   | 555.4 | 483.2 | 429.6 | 398.7 | 383.8 | 381.2 | 379.7 | 378.6 | 387.9 | 396.1 |
| 644.0 | 12.5° | 588.9 | 484.7 | 409.9 | 372.3 | 354.0 | 346.2 | 337.3 | 330.2 | 331.7 | 336.9 |
| 720.7 | 15°   | 648.9 | 503.7 | 403.6 | 358.5 | 335.8 | 322.8 | 312.3 | 303.8 | 301.9 | 303.8 |
| 787.7 | 17.5° | 717.4 | 529.4 | 402.8 | 346.6 | 318.3 | 304.9 | 296.3 | 288.5 | 285.9 | 286.3 |
| 825.3 | 20°   | 762.8 | 549.9 | 400.6 | 333.2 | 301.5 | 289.6 | 282.2 | 274.4 | 271.8 | 272.5 |
| 814.9 | 22.5° | 767.3 | 560.7 | 397.2 | 318.3 | 284.8 | 274.7 | 267.3 | 260.2 | 259.9 | 259.9 |
| 775.8 | 25°   | 743.1 | 560.7 | 390.1 | 304.9 | 268.8 | 259.9 | 253.1 | 244.6 | 246.1 | 246.8 |
| 731.5 | 27.5° | 705.5 | 547.3 | 376.7 | 294.1 | 255.0 | 245.7 | 239.0 | 231.2 | 233.0 | 234.2 |
| 690.2 | 30°   | 668.2 | 530.1 | 360.7 | 281.8 | 242.0 | 231.2 | 226.3 | 219.6 | 220.4 | 221.9 |
| 649.3 | 32.5° | 633.6 | 511.9 | 341.8 | 271.8 | 229.0 | 218.2 | 214.4 | 207.0 | 208.1 | 209.6 |
| 609.0 | 35°   | 599.4 | 491.8 | 319.4 | 259.9 | 217.0 | 206.2 | 203.3 | 194.7 | 195.4 | 197.7 |
| 568.8 | 37.5° | 562.5 | 470.6 | 301.2 | 247.9 | 205.5 | 194.3 | 191.4 | 182.4 | 183.2 | 185.8 |
| 527.1 | 40°   | 523.8 | 449.7 | 283.3 | 235.3 | 193.2 | 182.0 | 179.4 | 169.8 | 170.5 | 173.5 |
| 486.2 | 42.5° | 484.7 | 427.0 | 269.5 | 218.9 | 180.6 | 168.6 | 166.0 | 157.1 | 158.2 | 161.6 |
| 450.5 | 45°   | 448.6 | 399.8 | 260.6 | 200.7 | 168.6 | 155.2 | 152.6 | 144.4 | 146.7 | 150.4 |
| 420.3 | 47.5° | 417.7 | 371.9 | 256.9 | 185.4 | 156.0 | 141.5 | 139.2 | 132.5 | 136.3 | 140.3 |
| 394.6 | 50°   | 391.3 | 345.1 | 252.0 | 169.8 | 144.1 | 129.6 | 127.3 | 122.9 | 127.7 | 131.8 |
| 377.1 | 52.5° | 372.3 | 314.6 | 241.6 | 155.6 | 133.6 | 119.5 | 118.8 | 116.5 | 121.0 | 124.7 |
| 364.1 | 55°   | 355.9 | 282.9 | 224.9 | 143.3 | 124.3 | 110.9 | 111.7 | 110.6 | 114.3 | 117.3 |
| 356.3 | 57.5° | 341.0 | 255.4 | 203.6 | 133.6 | 114.3 | 103.5 | 105.7 | 104.2 | 106.1 | 108.0 |
| 348.1 | 60°   | 323.1 | 227.5 | 178.3 | 122.9 | 102.4 | 96.0  | 98.7  | 94.6  | 94.2  | 94.9  |
| 333.2 | 62.5° | 296.7 | 189.9 | 151.9 | 109.5 | 92.0  | 87.9  | 89.0  | 81.2  | 75.2  | 75.2  |
| 311.2 | 65°   | 259.9 | 152.6 | 127.3 | 94.6  | 80.0  | 76.7  | 75.9  | 64.8  | 56.6  | 55.8  |
| 287.4 | 67.5° | 217.0 | 125.5 | 105.7 | 79.7  | 66.6  | 64.4  | 65.1  | 57.0  | 48.8  | 48.0  |
| 263.6 | 70°   | 176.8 | 103.9 | 85.3  | 63.7  | 51.4  | 53.6  | 57.0  | 48.8  | 41.0  | 39.8  |
| 235.7 | 72.5° | 143.7 | 82.6  | 66.6  | 48.8  | 38.0  | 44.3  | 48.4  | 39.8  | 32.4  | 31.6  |
| 201.0 | 75°   | 110.9 | 60.7  | 47.7  | 33.1  | 27.5  | 34.2  | 38.0  | 29.0  | 23.1  | 22.0  |
| 155.6 | 77.5° | 74.1  | 37.6  | 26.8  | 20.8  | 16.4  | 23.5  | 25.3  | 15.3  | 13.4  | 13.0  |
| 113.2 | 80°   | 45.0  | 17.5  | 11.5  | 10.1  | 5.6   | 8.6   | 10.1  | 6.3   | 7.1   | 7.4   |
| 60.3  | 82.5° | 22.7  | 4.8   | 1.9   | 0.4   | 0.0   | 0.0   | 3.0   | 1.5   | 3.0   | 3.7   |
| 16.4  | 85°   | 1.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 1.9   |
| 0.0   | 87.5° | 0.0   | 0.0   | 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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**CANDELA DISTRIBUTION (continued):**

| 185°  |       | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°   | 265°   | 270°   | 275°   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 748.3 | 0°    | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3  | 748.3  | 748.3  | 748.3  |
| 657.4 | 2.5°  | 678.3 | 693.9 | 708.8 | 732.6 | 757.2 | 781.4 | 806.0  | 829.8  | 838.4  | 844.7  |
| 567.7 | 5°    | 600.1 | 629.5 | 663.8 | 711.1 | 761.7 | 813.8 | 866.7  | 915.1  | 937.0  | 951.9  |
| 483.2 | 7.5°  | 519.3 | 557.7 | 606.8 | 677.9 | 757.2 | 840.2 | 923.3  | 999.6  | 1034.9 | 1063.6 |
| 403.6 | 10°   | 439.3 | 481.0 | 543.2 | 624.3 | 731.5 | 850.7 | 965.3  | 1070.3 | 1116.1 | 1152.2 |
| 346.2 | 12.5° | 368.9 | 408.0 | 473.2 | 562.9 | 691.3 | 842.5 | 989.5  | 1115.7 | 1169.7 | 1210.3 |
| 305.3 | 15°   | 319.4 | 347.0 | 404.7 | 501.5 | 643.7 | 816.0 | 991.0  | 1137.3 | 1196.5 | 1238.9 |
| 288.1 | 17.5° | 291.9 | 301.2 | 338.8 | 438.9 | 590.8 | 781.4 | 977.2  | 1144.8 | 1208.0 | 1247.5 |
| 272.9 | 20°   | 277.0 | 278.5 | 288.9 | 357.8 | 523.1 | 749.0 | 964.2  | 1152.2 | 1218.8 | 1252.0 |
| 262.1 | 22.5° | 265.1 | 265.1 | 267.7 | 292.6 | 435.6 | 710.3 | 960.1  | 1165.2 | 1233.7 | 1254.2 |
| 249.8 | 25°   | 254.3 | 254.3 | 255.0 | 261.7 | 345.1 | 651.1 | 957.5  | 1185.3 | 1254.2 | 1259.8 |
| 237.5 | 27.5° | 243.1 | 243.5 | 243.5 | 247.2 | 278.1 | 570.7 | 946.3  | 1211.4 | 1278.8 | 1267.2 |
| 225.6 | 30°   | 231.9 | 232.7 | 232.7 | 235.3 | 246.1 | 476.5 | 924.4  | 1242.7 | 1310.8 | 1276.9 |
| 213.7 | 32.5° | 220.8 | 221.5 | 221.5 | 223.7 | 231.6 | 380.5 | 896.8  | 1271.3 | 1343.2 | 1281.0 |
| 202.1 | 35°   | 209.2 | 210.3 | 209.6 | 212.6 | 220.8 | 302.7 | 861.8  | 1300.0 | 1378.2 | 1294.0 |
| 191.0 | 37.5° | 197.7 | 198.4 | 198.1 | 201.0 | 210.3 | 261.3 | 821.2  | 1321.6 | 1425.8 | 1323.1 |
| 179.1 | 40°   | 186.1 | 185.8 | 185.8 | 189.1 | 199.2 | 249.4 | 770.2  | 1355.8 | 1494.3 | 1374.1 |
| 167.2 | 42.5° | 174.2 | 174.2 | 173.5 | 177.2 | 189.5 | 240.5 | 721.5  | 1417.3 | 1594.1 | 1455.2 |
| 156.0 | 45°   | 163.4 | 163.1 | 161.6 | 164.9 | 180.2 | 224.9 | 704.4  | 1531.9 | 1741.5 | 1586.7 |
| 144.8 | 47.5° | 153.0 | 152.6 | 148.9 | 151.9 | 169.0 | 210.7 | 768.4  | 1719.6 | 1945.9 | 1779.9 |
| 135.9 | 50°   | 143.7 | 144.1 | 137.0 | 139.6 | 157.8 | 199.9 | 907.2  | 1963.0 | 2217.3 | 2040.1 |
| 128.4 | 52.5° | 135.1 | 135.1 | 125.8 | 127.3 | 144.1 | 190.2 | 1039.4 | 2227.0 | 2575.4 | 2403.1 |
| 120.6 | 55°   | 126.6 | 125.8 | 115.4 | 116.2 | 130.3 | 176.5 | 1059.1 | 2484.6 | 3063.9 | 2949.2 |
| 112.1 | 57.5° | 116.9 | 115.4 | 105.7 | 105.7 | 117.6 | 166.4 | 918.0  | 2682.6 | 3669.9 | 3751.8 |
| 96.0  | 60°   | 105.0 | 103.9 | 97.5  | 95.7  | 107.6 | 175.3 | 647.8  | 2705.7 | 4060.8 | 4819.2 |
| 76.3  | 62.5° | 89.7  | 91.2  | 87.9  | 85.3  | 97.9  | 182.0 | 383.8  | 2520.0 | 3966.3 | 5158.7 |
| 59.2  | 65°   | 70.7  | 76.7  | 75.9  | 74.1  | 107.6 | 153.4 | 226.7  | 2163.3 | 3676.3 | 4884.7 |
| 51.7  | 67.5° | 60.3  | 64.4  | 63.3  | 63.3  | 112.8 | 116.5 | 142.6  | 1690.1 | 3277.2 | 4559.7 |
| 43.2  | 70°   | 51.4  | 55.5  | 51.4  | 51.4  | 85.3  | 70.7  | 98.7   | 1180.1 | 2846.4 | 4200.1 |
| 34.6  | 72.5° | 42.4  | 46.5  | 42.1  | 39.1  | 68.1  | 52.9  | 72.2   | 737.5  | 2437.7 | 3825.5 |
| 24.6  | 75°   | 32.4  | 37.2  | 33.9  | 30.2  | 45.0  | 39.5  | 54.7   | 428.5  | 2019.6 | 3273.1 |
| 14.9  | 77.5° | 20.5  | 26.8  | 25.3  | 21.2  | 33.1  | 28.7  | 39.5   | 255.0  | 1558.4 | 2557.6 |
| 8.9   | 80°   | 12.7  | 13.8  | 14.1  | 13.4  | 19.0  | 19.4  | 26.8   | 145.2  | 1066.6 | 1782.5 |
| 5.6   | 82.5° | 8.2   | 8.2   | 6.3   | 7.1   | 9.3   | 11.2  | 15.3   | 54.7   | 626.9  | 1085.2 |
| 3.4   | 85°   | 6.0   | 5.2   | 3.4   | 3.4   | 4.5   | 5.6   | 6.0    | 16.8   | 254.3  | 428.5  |
| 1.5   | 87.5° | 3.0   | 2.6   | 1.1   | 1.5   | 2.2   | 1.9   | 1.5    | 0.7    | 64.0   | 137.0  |
| 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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|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 748.3  | 0°    | 748.3  | 748.3  | 748.3  | 748.3  | 748.3  | 748.3  | 748.3  | 748.3  |
| 858.8  | 2.5°  | 866.3  | 877.8  | 878.6  | 878.6  | 868.5  | 868.2  | 847.7  | 845.4  |
| 985.4  | 5°    | 1020.0 | 1027.5 | 1029.4 | 1025.6 | 1005.5 | 990.6  | 950.8  | 942.2  |
| 1114.6 | 7.5°  | 1160.8 | 1175.7 | 1175.7 | 1166.7 | 1134.0 | 1103.4 | 1045.7 | 1024.1 |
| 1221.4 | 10°   | 1273.2 | 1290.3 | 1286.6 | 1268.4 | 1227.0 | 1185.0 | 1115.0 | 1086.7 |
| 1286.2 | 12.5° | 1327.9 | 1345.4 | 1335.7 | 1314.9 | 1274.7 | 1230.4 | 1156.7 | 1124.7 |
| 1304.8 | 15°   | 1326.8 | 1322.0 | 1311.9 | 1309.3 | 1289.9 | 1256.4 | 1187.6 | 1152.6 |
| 1293.3 | 17.5° | 1279.5 | 1238.6 | 1230.8 | 1256.8 | 1281.4 | 1273.2 | 1214.4 | 1181.6 |
| 1265.7 | 20°   | 1204.7 | 1133.2 | 1126.1 | 1176.0 | 1246.0 | 1281.8 | 1239.3 | 1209.2 |
| 1225.9 | 22.5° | 1125.8 | 1048.7 | 1032.3 | 1087.4 | 1192.8 | 1284.4 | 1271.0 | 1240.8 |
| 1182.0 | 25°   | 1050.9 | 973.5  | 957.1  | 1008.5 | 1133.6 | 1279.9 | 1305.2 | 1279.5 |
| 1139.9 | 27.5° | 988.4  | 913.6  | 898.3  | 949.7  | 1076.6 | 1267.2 | 1339.5 | 1321.2 |
| 1098.2 | 30°   | 940.0  | 870.8  | 859.6  | 909.1  | 1027.5 | 1251.6 | 1383.0 | 1373.0 |
| 1059.5 | 32.5° | 911.7  | 861.1  | 865.2  | 905.8  | 1001.1 | 1234.5 | 1424.7 | 1429.6 |
| 1040.5 | 35°   | 939.6  | 941.9  | 977.6  | 994.4  | 1025.6 | 1231.9 | 1481.3 | 1500.3 |
| 1063.2 | 37.5° | 1078.5 | 1155.9 | 1230.0 | 1216.2 | 1145.9 | 1262.0 | 1565.8 | 1601.2 |
| 1162.3 | 40°   | 1314.9 | 1473.9 | 1594.1 | 1541.6 | 1364.4 | 1354.4 | 1687.5 | 1740.4 |
| 1338.0 | 42.5° | 1603.8 | 1873.3 | 2071.4 | 1930.6 | 1646.2 | 1515.9 | 1861.4 | 1928.8 |
| 1550.5 | 45°   | 1908.7 | 2365.8 | 2677.8 | 2385.2 | 1946.6 | 1742.3 | 2124.6 | 2177.5 |
| 1749.7 | 47.5° | 2230.0 | 2964.5 | 3368.0 | 2889.3 | 2225.1 | 1999.9 | 2483.5 | 2495.8 |
| 1938.5 | 50°   | 2581.4 | 3620.8 | 4071.6 | 3393.0 | 2493.9 | 2295.1 | 2922.0 | 2907.9 |
| 2158.5 | 52.5° | 2916.1 | 4295.7 | 4760.3 | 3898.9 | 2729.9 | 2661.4 | 3430.9 | 3401.9 |
| 2459.3 | 55°   | 3235.5 | 4970.3 | 5453.1 | 4385.1 | 2952.5 | 3145.4 | 4035.5 | 3859.8 |
| 2893.0 | 57.5° | 3605.9 | 5576.7 | 6167.2 | 4873.5 | 3263.8 | 3773.8 | 4711.6 | 4125.6 |
| 3723.5 | 60°   | 4153.5 | 6265.8 | 6974.6 | 5542.9 | 3855.7 | 4434.2 | 4953.9 | 4075.0 |
| 4718.3 | 62.5° | 4852.7 | 6899.4 | 7561.7 | 6198.8 | 4450.2 | 4558.6 | 4596.9 | 3684.8 |
| 4515.4 | 65°   | 4988.5 | 7059.9 | 7594.9 | 6374.2 | 4373.5 | 3866.9 | 3752.9 | 2961.9 |
| 4033.3 | 67.5° | 4628.2 | 6769.9 | 7131.8 | 6047.7 | 3868.7 | 2988.3 | 2816.3 | 2148.8 |
| 3716.8 | 70°   | 4223.9 | 6217.1 | 6324.7 | 5492.6 | 3402.6 | 2197.9 | 1902.0 | 1378.9 |
| 3500.2 | 72.5° | 3809.5 | 5479.6 | 5257.0 | 4770.0 | 2990.5 | 1600.4 | 1371.8 | 980.2  |
| 3191.5 | 75°   | 3317.4 | 4509.8 | 4140.9 | 3963.3 | 2476.0 | 1256.1 | 992.5  | 676.4  |
| 2745.2 | 77.5° | 2656.6 | 3174.4 | 3075.8 | 3072.0 | 1860.7 | 917.7  | 662.3  | 424.0  |
| 2144.7 | 80°   | 1874.1 | 2060.2 | 2009.9 | 2313.7 | 1248.3 | 665.6  | 398.7  | 236.0  |
| 1492.8 | 82.5° | 907.2  | 1139.2 | 1169.3 | 1377.8 | 607.2  | 391.6  | 92.0   | 51.4   |
| 583.7  | 85°   | 355.2  | 549.5  | 463.5  | 523.1  | 170.5  | 109.1  | 2.2    | 0.0    |
| 96.0   | 87.5° | 39.8   | 63.7   | 58.4   | 46.2   | 20.8   | 4.5    | 0.0    | 0.0    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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