

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: P946668

Luminaire Tested: **GALN-SB2B-730-U-SLR-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946668  
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-SB2B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8594 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
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

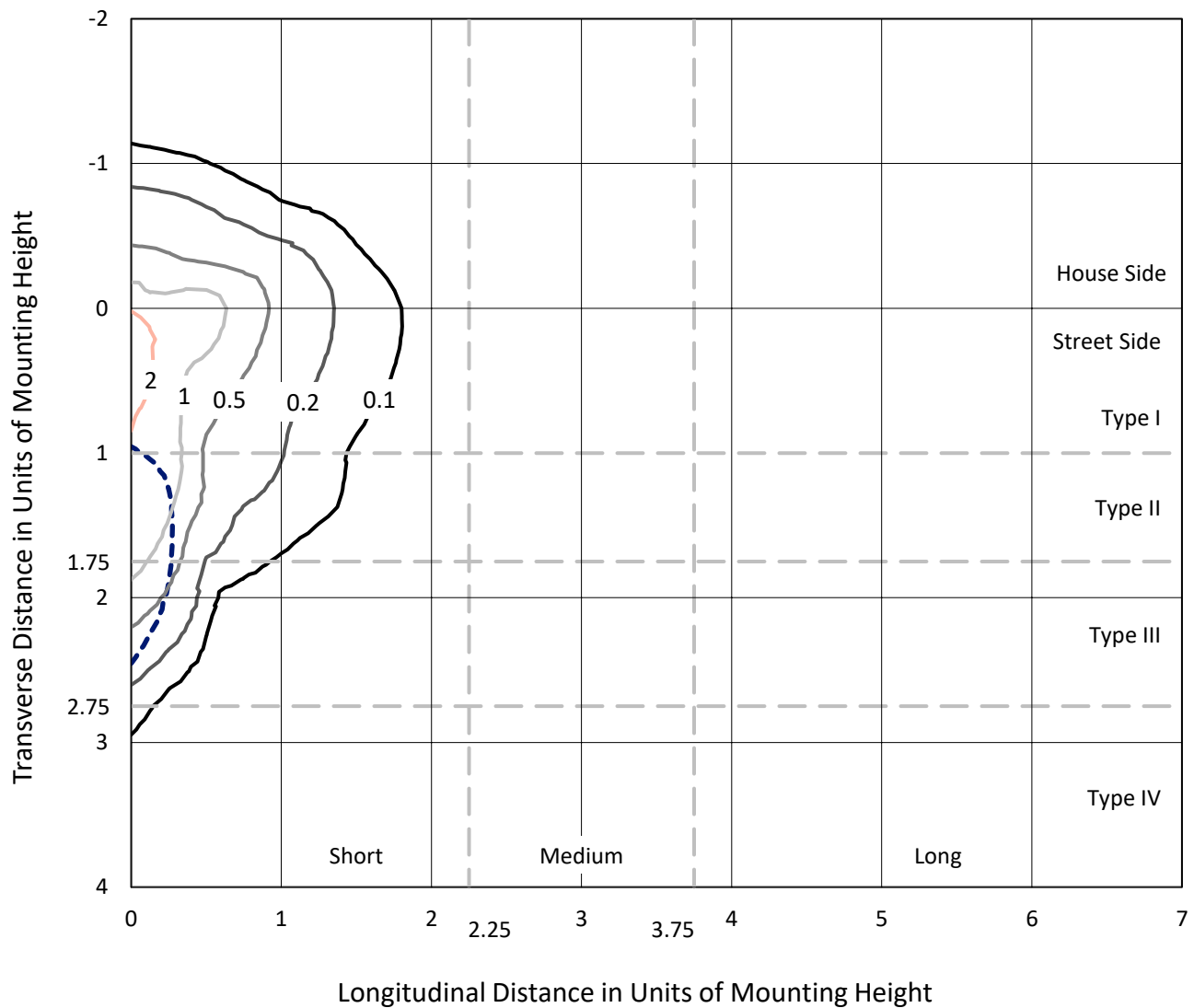


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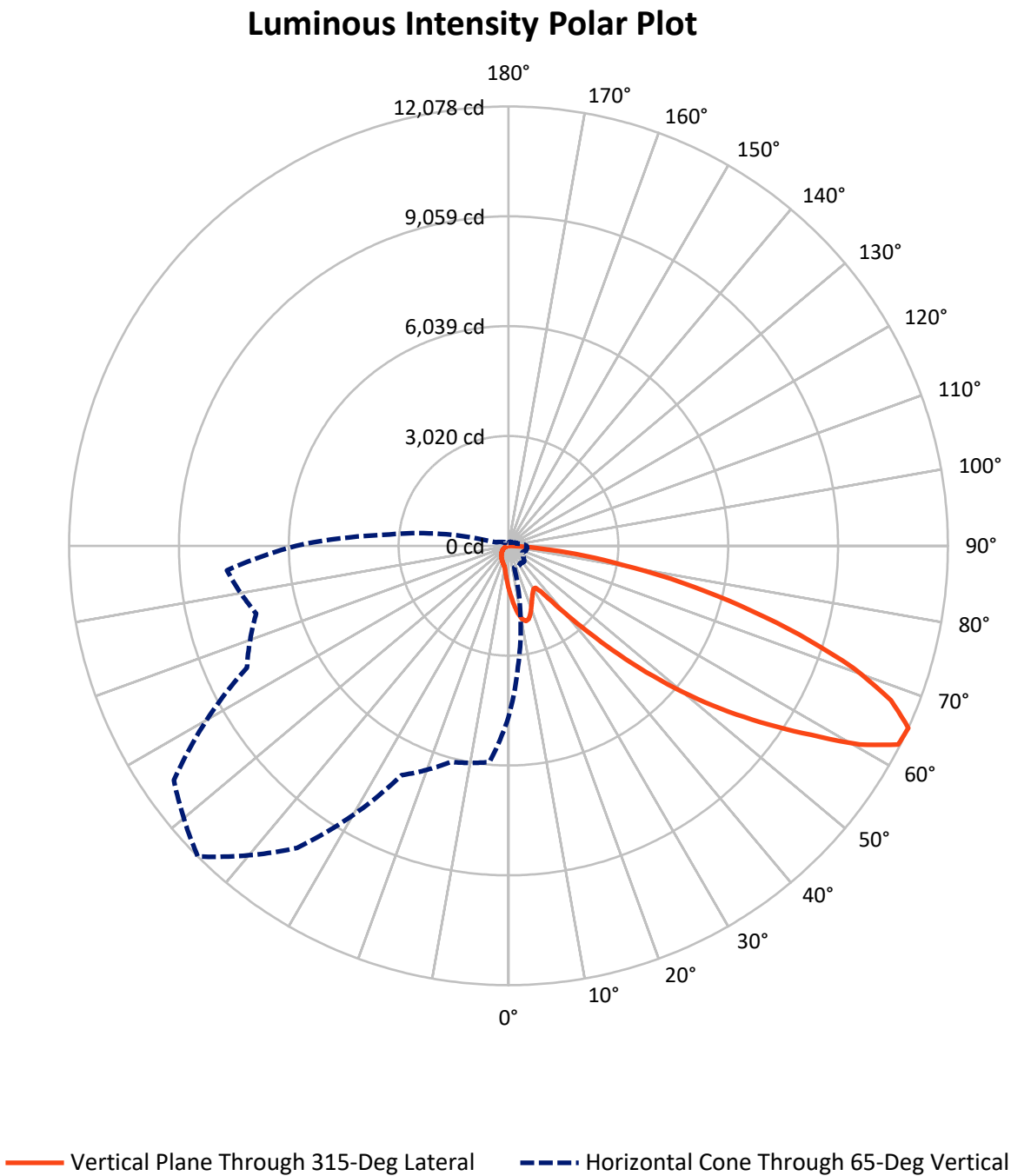
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
Type IV - Short - N/A

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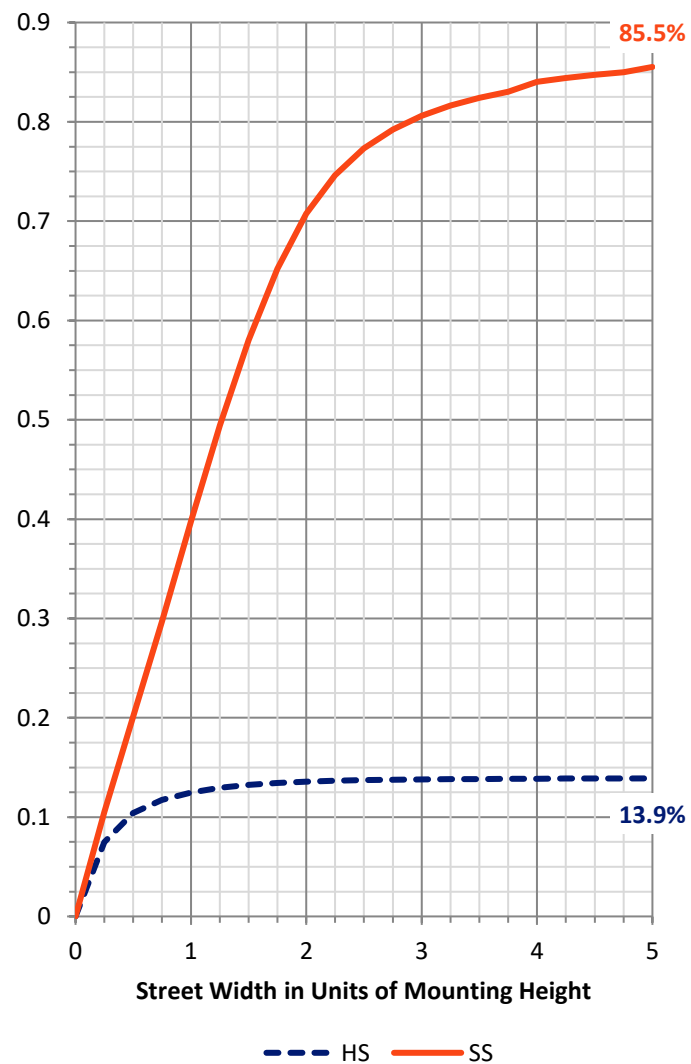
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1203.5   | 0.0    | 1203.5 |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 7390.5   | 0.0    | 7390.5 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 8594.0   | 0.0    | 8594.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.2  | 1.4       |
| 10°-20°   | 351.2  | 4.1       |
| 20°-30°   | 517.4  | 6.0       |
| 30°-40°   | 664.7  | 7.7       |
| 40°-50°   | 1075.0 | 12.5      |
| 50°-60°   | 1885.2 | 21.9      |
| 60°-70°   | 2358.9 | 27.4      |
| 70°-80°   | 1378.4 | 16.0      |
| 80°-90°   | 245.9  | 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°    | 8594.0 | 100.0     |
| 0°-180°   | 8594.0 | 100.0     |

**Coefficient of Utilization**



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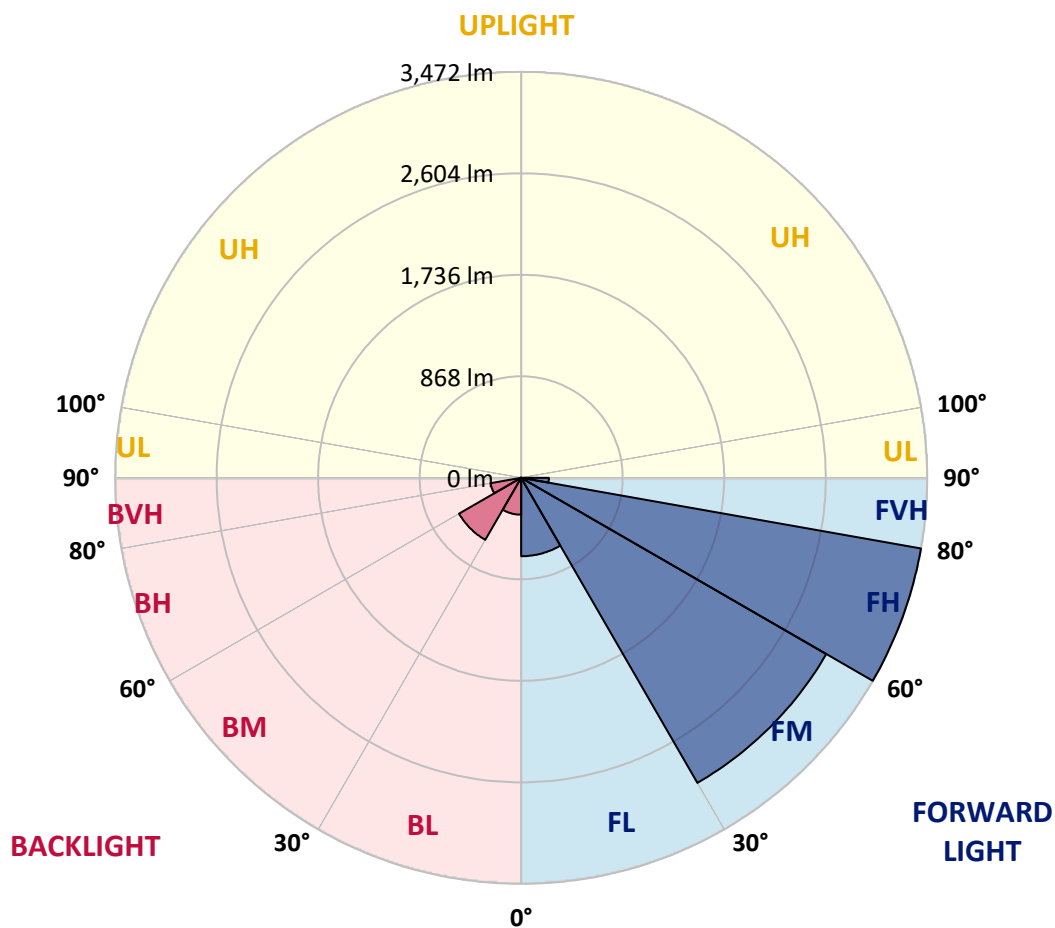
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 670.3  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 3012.1 | 35.0      |                         |      |         |
| FH   | (60°-80°)   | 3471.6 | 40.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 236.5  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 315.5  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 612.9  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 265.8  | 3.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.4    | 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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 |
| 2.5°  | 1344.5 | 1321.4 | 1307.8 | 1274.1 | 1240.3 | 1213.1 | 1176.4 | 1152.1 | 1123.1 | 1095.3 | 1070.4 |
| 5°    | 1498.4 | 1461.1 | 1416.2 | 1354.6 | 1298.3 | 1240.9 | 1185.3 | 1130.2 | 1072.2 | 1018.9 | 986.3  |
| 7.5°  | 1628.7 | 1574.8 | 1495.5 | 1413.8 | 1342.1 | 1272.9 | 1207.8 | 1134.9 | 1064.5 | 981.0  | 936.6  |
| 10°   | 1728.2 | 1659.5 | 1555.3 | 1448.1 | 1365.8 | 1296.0 | 1232.6 | 1171.0 | 1100.0 | 999.4  | 943.7  |
| 12.5° | 1788.5 | 1715.1 | 1591.4 | 1465.9 | 1371.7 | 1293.6 | 1244.5 | 1217.2 | 1189.4 | 1089.3 | 1024.2 |
| 15°   | 1832.9 | 1753.6 | 1616.9 | 1478.3 | 1358.1 | 1262.2 | 1226.1 | 1253.3 | 1285.3 | 1221.4 | 1146.2 |
| 17.5° | 1879.1 | 1795.6 | 1650.0 | 1483.6 | 1321.4 | 1201.2 | 1185.8 | 1256.3 | 1330.3 | 1327.3 | 1252.7 |
| 20°   | 1922.9 | 1840.1 | 1679.0 | 1480.1 | 1262.2 | 1127.2 | 1140.9 | 1230.8 | 1316.7 | 1352.8 | 1312.5 |
| 22.5° | 1973.3 | 1885.6 | 1706.8 | 1466.5 | 1185.3 | 1058.0 | 1100.6 | 1190.6 | 1265.8 | 1308.4 | 1296.0 |
| 25°   | 2034.8 | 1943.1 | 1745.9 | 1446.3 | 1102.4 | 1000.5 | 1059.7 | 1143.8 | 1204.8 | 1234.4 | 1233.8 |
| 27.5° | 2101.1 | 2011.7 | 1798.0 | 1435.7 | 1035.5 | 959.7  | 1013.6 | 1088.2 | 1142.6 | 1163.4 | 1163.4 |
| 30°   | 2183.4 | 2091.7 | 1859.6 | 1423.8 | 991.7  | 936.0  | 965.6  | 1023.6 | 1076.9 | 1097.6 | 1097.6 |
| 32.5° | 2273.4 | 2180.5 | 1918.8 | 1395.4 | 965.0  | 918.2  | 918.8  | 955.5  | 1004.1 | 1029.0 | 1032.5 |
| 35°   | 2385.9 | 2287.0 | 1982.1 | 1333.3 | 943.7  | 897.5  | 873.3  | 891.0  | 931.3  | 960.9  | 968.6  |
| 37.5° | 2546.4 | 2426.8 | 2059.7 | 1244.5 | 912.3  | 865.6  | 825.3  | 829.4  | 860.2  | 892.8  | 904.6  |
| 40°   | 2767.8 | 2614.4 | 2150.9 | 1152.1 | 867.3  | 820.6  | 772.6  | 770.8  | 793.3  | 825.3  | 838.3  |
| 42.5° | 3067.3 | 2862.5 | 2260.4 | 1063.9 | 824.1  | 766.1  | 717.0  | 714.0  | 731.8  | 759.6  | 773.2  |
| 45°   | 3462.8 | 3179.8 | 2394.8 | 988.1  | 790.4  | 712.8  | 664.3  | 663.1  | 677.9  | 702.2  | 716.4  |
| 47.5° | 3969.0 | 3620.9 | 2529.2 | 936.6  | 772.6  | 670.8  | 621.0  | 623.4  | 636.4  | 658.3  | 668.4  |
| 50°   | 4624.4 | 4195.8 | 2570.0 | 910.6  | 772.6  | 648.3  | 582.6  | 594.4  | 605.1  | 621.6  | 627.6  |
| 52.5° | 5410.0 | 4747.5 | 2435.0 | 886.9  | 777.3  | 651.2  | 550.0  | 575.5  | 583.2  | 597.4  | 599.7  |
| 55°   | 6138.2 | 5018.1 | 2093.4 | 854.3  | 778.5  | 669.6  | 522.2  | 560.1  | 574.3  | 579.6  | 579.0  |
| 57.5° | 6561.0 | 4925.2 | 1692.6 | 799.2  | 773.8  | 682.0  | 504.4  | 541.1  | 568.4  | 571.9  | 566.6  |
| 60°   | 6480.4 | 4598.9 | 1246.2 | 757.2  | 738.9  | 677.3  | 499.1  | 512.1  | 555.3  | 560.7  | 553.6  |
| 62.5° | 5860.0 | 4051.9 | 865.0  | 724.7  | 661.9  | 656.6  | 497.3  | 466.5  | 526.9  | 539.9  | 529.9  |
| 65°   | 4710.2 | 3189.9 | 611.0  | 624.0  | 580.2  | 611.6  | 487.8  | 419.2  | 492.6  | 510.3  | 494.9  |
| 67.5° | 3417.2 | 2158.6 | 441.1  | 505.6  | 525.7  | 538.8  | 466.5  | 384.8  | 453.5  | 477.2  | 457.1  |
| 70°   | 2192.9 | 1165.7 | 309.6  | 333.9  | 442.8  | 457.6  | 429.8  | 354.0  | 413.8  | 441.1  | 419.2  |
| 72.5° | 1558.8 | 688.5  | 222.6  | 233.9  | 355.8  | 381.3  | 378.3  | 319.7  | 367.7  | 400.8  | 374.8  |
| 75°   | 1075.7 | 379.5  | 150.4  | 167.0  | 258.1  | 309.6  | 291.9  | 274.7  | 311.4  | 345.2  | 319.7  |
| 77.5° | 674.3  | 169.9  | 90.0   | 116.0  | 169.3  | 243.3  | 200.1  | 212.5  | 242.7  | 274.1  | 247.5  |
| 80°   | 375.4  | 65.7   | 50.3   | 77.0   | 92.4   | 177.0  | 110.7  | 136.8  | 178.8  | 201.3  | 180.0  |
| 82.5° | 81.7   | 8.3    | 22.5   | 33.2   | 36.1   | 103.0  | 58.6   | 79.3   | 112.5  | 110.7  | 95.9   |
| 85°   | 0.0    | 0.0    | 4.1    | 4.7    | 2.4    | 44.4   | 21.3   | 26.0   | 36.7   | 34.3   | 26.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 0.0    |
| 90°   | 0.0    | 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 |
| 2.5°  | 1065.7 | 1036.7 | 1015.3 | 1004.7 | 995.8  | 1004.1 | 1008.8 | 1008.8 | 1029.0 | 1040.8 | 1045.5 |
| 5°    | 965.6  | 913.5  | 873.8  | 847.2  | 831.2  | 836.5  | 842.5  | 849.0  | 874.4  | 891.6  | 902.9  |
| 7.5°  | 896.3  | 816.4  | 756.0  | 718.7  | 699.2  | 702.2  | 706.3  | 711.6  | 736.5  | 753.7  | 768.5  |
| 10°   | 883.3  | 768.5  | 683.2  | 634.1  | 610.4  | 606.2  | 603.9  | 602.1  | 616.9  | 629.9  | 641.8  |
| 12.5° | 936.6  | 770.8  | 651.8  | 592.0  | 563.0  | 550.6  | 536.4  | 525.1  | 527.5  | 535.8  | 550.6  |
| 15°   | 1031.9 | 801.0  | 641.8  | 570.1  | 534.0  | 513.3  | 496.7  | 483.1  | 480.1  | 483.1  | 485.5  |
| 17.5° | 1140.9 | 841.9  | 640.6  | 551.2  | 506.2  | 484.9  | 471.3  | 458.8  | 454.7  | 455.3  | 458.2  |
| 20°   | 1213.1 | 874.4  | 637.0  | 529.9  | 479.5  | 460.6  | 448.8  | 436.3  | 432.2  | 433.4  | 434.0  |
| 22.5° | 1220.2 | 891.6  | 631.7  | 506.2  | 452.9  | 436.9  | 425.1  | 413.8  | 413.2  | 413.2  | 416.8  |
| 25°   | 1181.7 | 891.6  | 620.5  | 484.9  | 427.5  | 413.2  | 402.6  | 389.0  | 391.3  | 392.5  | 397.3  |
| 27.5° | 1121.9 | 870.3  | 599.1  | 467.7  | 405.5  | 390.7  | 380.1  | 367.7  | 370.6  | 372.4  | 377.7  |
| 30°   | 1062.7 | 843.1  | 573.7  | 448.2  | 384.8  | 367.7  | 360.0  | 349.3  | 350.5  | 352.9  | 358.8  |
| 32.5° | 1007.6 | 814.1  | 543.5  | 432.2  | 364.1  | 346.9  | 341.0  | 329.2  | 330.9  | 333.3  | 339.8  |
| 35°   | 953.2  | 782.1  | 508.0  | 413.2  | 345.2  | 328.0  | 323.3  | 309.6  | 310.8  | 314.4  | 321.5  |
| 37.5° | 894.6  | 748.3  | 479.0  | 394.3  | 326.8  | 309.0  | 304.3  | 290.1  | 291.3  | 295.4  | 303.7  |
| 40°   | 833.0  | 715.2  | 450.5  | 374.2  | 307.3  | 289.5  | 285.4  | 270.0  | 271.2  | 275.9  | 284.8  |
| 42.5° | 770.8  | 679.1  | 428.6  | 348.1  | 287.1  | 268.2  | 264.0  | 249.8  | 251.6  | 256.9  | 265.8  |
| 45°   | 713.4  | 635.8  | 414.4  | 319.1  | 268.2  | 246.9  | 242.7  | 229.7  | 233.3  | 239.2  | 248.1  |
| 47.5° | 664.3  | 591.4  | 408.5  | 294.8  | 248.1  | 225.0  | 221.4  | 210.8  | 216.7  | 223.2  | 230.3  |
| 50°   | 622.2  | 548.8  | 400.8  | 270.0  | 229.1  | 206.0  | 202.5  | 195.4  | 203.1  | 209.6  | 216.1  |
| 52.5° | 592.0  | 500.3  | 384.2  | 247.5  | 212.5  | 190.0  | 188.9  | 185.3  | 192.4  | 198.3  | 204.3  |
| 55°   | 566.0  | 449.9  | 357.6  | 227.9  | 197.7  | 176.4  | 177.6  | 175.8  | 181.8  | 186.5  | 191.8  |
| 57.5° | 542.3  | 406.1  | 323.8  | 212.5  | 181.8  | 164.6  | 168.1  | 165.8  | 168.7  | 171.7  | 178.2  |
| 60°   | 513.9  | 361.7  | 283.6  | 195.4  | 162.8  | 152.7  | 156.9  | 150.4  | 149.8  | 151.0  | 152.7  |
| 62.5° | 471.9  | 301.9  | 241.6  | 174.1  | 146.2  | 139.7  | 141.5  | 129.1  | 119.6  | 119.6  | 121.4  |
| 65°   | 413.2  | 242.7  | 202.5  | 150.4  | 127.3  | 122.0  | 120.8  | 103.0  | 90.0   | 88.8   | 94.1   |
| 67.5° | 345.2  | 199.5  | 168.1  | 126.7  | 106.0  | 102.4  | 103.6  | 90.6   | 77.6   | 76.4   | 82.3   |
| 70°   | 281.2  | 165.2  | 135.6  | 101.2  | 81.7   | 85.3   | 90.6   | 77.6   | 65.1   | 63.3   | 68.7   |
| 72.5° | 228.5  | 131.4  | 106.0  | 77.6   | 60.4   | 70.5   | 77.0   | 63.3   | 51.5   | 50.3   | 55.1   |
| 75°   | 176.4  | 96.5   | 75.8   | 52.7   | 43.8   | 54.5   | 60.4   | 46.2   | 36.7   | 34.9   | 39.1   |
| 77.5° | 117.8  | 59.8   | 42.6   | 33.2   | 26.0   | 37.3   | 40.3   | 24.3   | 21.3   | 20.7   | 23.7   |
| 80°   | 71.6   | 27.8   | 18.4   | 16.0   | 8.9    | 13.6   | 16.0   | 10.1   | 11.2   | 11.8   | 14.2   |
| 82.5° | 36.1   | 7.7    | 3.0    | 0.6    | 0.0    | 0.0    | 4.7    | 2.4    | 4.7    | 5.9    | 8.9    |
| 85°   | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 3.0    | 5.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    |
| 90°   | 0.0    | 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 | 1190.0 |
| 2.5°  | 1078.7 | 1103.6 | 1127.2 | 1165.1 | 1204.2 | 1242.7 | 1281.8 | 1319.7 | 1333.3 | 1343.3 | 1365.8 |
| 5°    | 954.4  | 1001.1 | 1055.6 | 1130.8 | 1211.3 | 1294.2 | 1378.3 | 1455.2 | 1490.2 | 1513.8 | 1567.1 |
| 7.5°  | 825.9  | 886.9  | 965.0  | 1078.1 | 1204.2 | 1336.2 | 1468.3 | 1589.6 | 1645.9 | 1691.4 | 1772.6 |
| 10°   | 698.6  | 764.9  | 863.8  | 992.8  | 1163.4 | 1352.8 | 1535.2 | 1702.1 | 1774.9 | 1832.4 | 1942.5 |
| 12.5° | 586.7  | 648.9  | 752.5  | 895.2  | 1099.4 | 1339.8 | 1573.6 | 1774.3 | 1860.2 | 1924.7 | 2045.5 |
| 15°   | 508.0  | 551.8  | 643.5  | 797.5  | 1023.6 | 1297.7 | 1576.0 | 1808.7 | 1902.8 | 1970.3 | 2075.1 |
| 17.5° | 464.2  | 479.0  | 538.8  | 698.0  | 939.6  | 1242.7 | 1554.1 | 1820.5 | 1921.2 | 1983.9 | 2056.7 |
| 20°   | 440.5  | 442.8  | 459.4  | 568.9  | 831.8  | 1191.2 | 1533.4 | 1832.4 | 1938.3 | 1991.0 | 2012.9 |
| 22.5° | 421.5  | 421.5  | 425.7  | 465.3  | 692.7  | 1129.6 | 1526.9 | 1853.1 | 1962.0 | 1994.6 | 1949.6 |
| 25°   | 404.4  | 404.4  | 405.5  | 416.2  | 548.8  | 1035.5 | 1522.7 | 1885.0 | 1994.6 | 2003.5 | 1879.7 |
| 27.5° | 386.6  | 387.2  | 387.2  | 393.1  | 442.3  | 907.6  | 1505.0 | 1926.5 | 2033.6 | 2015.3 | 1812.8 |
| 30°   | 368.8  | 370.0  | 370.0  | 374.2  | 391.3  | 757.8  | 1470.0 | 1976.2 | 2084.6 | 2030.7 | 1746.5 |
| 32.5° | 351.1  | 352.3  | 352.3  | 355.8  | 368.2  | 605.1  | 1426.2 | 2021.8 | 2136.1 | 2037.2 | 1684.9 |
| 35°   | 332.7  | 334.5  | 333.3  | 338.1  | 351.1  | 481.3  | 1370.6 | 2067.4 | 2191.7 | 2057.9 | 1654.7 |
| 37.5° | 314.4  | 315.6  | 315.0  | 319.7  | 334.5  | 415.6  | 1306.0 | 2101.7 | 2267.5 | 2104.1 | 1690.9 |
| 40°   | 296.0  | 295.4  | 295.4  | 300.8  | 316.7  | 396.7  | 1224.9 | 2156.2 | 2376.4 | 2185.2 | 1848.3 |
| 42.5° | 277.1  | 277.1  | 275.9  | 281.8  | 301.3  | 382.5  | 1147.4 | 2253.9 | 2535.1 | 2314.3 | 2127.8 |
| 45°   | 259.9  | 259.3  | 256.9  | 262.3  | 286.5  | 357.6  | 1120.1 | 2436.2 | 2769.5 | 2523.3 | 2465.8 |
| 47.5° | 243.3  | 242.7  | 236.8  | 241.6  | 268.8  | 335.1  | 1222.0 | 2734.6 | 3094.6 | 2830.5 | 2782.6 |
| 50°   | 228.5  | 229.1  | 217.9  | 222.0  | 251.0  | 317.9  | 1442.8 | 3121.8 | 3526.2 | 3244.4 | 3082.7 |
| 52.5° | 214.9  | 214.9  | 200.1  | 202.5  | 229.1  | 302.5  | 1653.0 | 3541.6 | 4095.7 | 3821.6 | 3432.6 |
| 55°   | 201.3  | 200.1  | 183.5  | 184.7  | 207.2  | 280.6  | 1684.3 | 3951.3 | 4872.5 | 4690.1 | 3911.0 |
| 57.5° | 185.9  | 183.5  | 168.1  | 168.1  | 187.1  | 264.6  | 1460.0 | 4266.2 | 5836.3 | 5966.5 | 4600.7 |
| 60°   | 167.0  | 165.2  | 155.1  | 152.2  | 171.1  | 278.8  | 1030.1 | 4302.9 | 6457.9 | 7663.9 | 5921.6 |
| 62.5° | 142.7  | 145.0  | 139.7  | 135.6  | 155.7  | 289.5  | 610.4  | 4007.5 | 6307.6 | 8203.9 | 7503.5 |
| 65°   | 112.5  | 122.0  | 120.8  | 117.8  | 171.1  | 243.9  | 360.6  | 3440.3 | 5846.4 | 7768.1 | 7180.8 |
| 67.5° | 95.9   | 102.4  | 100.6  | 100.6  | 179.4  | 185.3  | 226.8  | 2687.8 | 5211.7 | 7251.3 | 6414.1 |
| 70°   | 81.7   | 88.2   | 81.7   | 81.7   | 135.6  | 112.5  | 156.9  | 1876.8 | 4526.7 | 6679.4 | 5910.9 |
| 72.5° | 67.5   | 74.0   | 66.9   | 62.2   | 108.3  | 84.1   | 114.9  | 1172.8 | 3876.7 | 6083.8 | 5566.3 |
| 75°   | 51.5   | 59.2   | 53.9   | 48.0   | 71.6   | 62.8   | 87.0   | 681.4  | 3211.8 | 5205.2 | 5075.5 |
| 77.5° | 32.6   | 42.6   | 40.3   | 33.7   | 52.7   | 45.6   | 62.8   | 405.5  | 2478.3 | 4067.3 | 4365.7 |
| 80°   | 20.1   | 21.9   | 22.5   | 21.3   | 30.2   | 30.8   | 42.6   | 230.9  | 1696.2 | 2834.7 | 3410.7 |
| 82.5° | 13.0   | 13.0   | 10.1   | 11.2   | 14.8   | 17.8   | 24.3   | 87.0   | 997.0  | 1725.8 | 2374.1 |
| 85°   | 9.5    | 8.3    | 5.3    | 5.3    | 7.1    | 8.9    | 9.5    | 26.6   | 404.4  | 681.4  | 928.3  |
| 87.5° | 4.7    | 4.1    | 1.8    | 2.4    | 3.6    | 3.0    | 2.4    | 1.2    | 101.8  | 217.9  | 152.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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|-------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 1190.0 | 1190.0  | 1190.0  | 1190.0  | 1190.0 | 1190.0 | 1190.0 | 1190.0 |
| 2.5°  | 1377.7 | 1396.0  | 1397.2  | 1397.2  | 1381.2 | 1380.6 | 1348.1 | 1344.5 |
| 5°    | 1622.2 | 1634.0  | 1637.0  | 1631.1  | 1599.1 | 1575.4 | 1512.1 | 1498.4 |
| 7.5°  | 1846.0 | 1869.7  | 1869.7  | 1855.4  | 1803.3 | 1754.8 | 1663.0 | 1628.7 |
| 10°   | 2024.8 | 2052.0  | 2046.1  | 2017.1  | 1951.4 | 1884.5 | 1773.2 | 1728.2 |
| 12.5° | 2111.8 | 2139.6  | 2124.2  | 2091.1  | 2027.1 | 1956.7 | 1839.5 | 1788.5 |
| 15°   | 2110.0 | 2102.3  | 2086.3  | 2082.2  | 2051.4 | 1998.1 | 1888.6 | 1832.9 |
| 17.5° | 2034.8 | 1969.7  | 1957.3  | 1998.7  | 2037.8 | 2024.8 | 1931.2 | 1879.1 |
| 20°   | 1915.8 | 1802.2  | 1790.9  | 1870.2  | 1981.5 | 2038.4 | 1970.9 | 1922.9 |
| 22.5° | 1790.3 | 1667.8  | 1641.7  | 1729.3  | 1896.9 | 2042.5 | 2021.2 | 1973.3 |
| 25°   | 1671.3 | 1548.2  | 1522.1  | 1603.8  | 1802.8 | 2035.4 | 2075.7 | 2034.8 |
| 27.5° | 1571.9 | 1452.9  | 1428.6  | 1510.3  | 1712.2 | 2015.3 | 2130.1 | 2101.1 |
| 30°   | 1494.9 | 1384.8  | 1367.0  | 1445.8  | 1634.0 | 1990.4 | 2199.4 | 2183.4 |
| 32.5° | 1449.9 | 1369.4  | 1375.9  | 1440.4  | 1592.0 | 1963.2 | 2265.7 | 2273.4 |
| 35°   | 1494.3 | 1497.9  | 1554.7  | 1581.3  | 1631.1 | 1959.0 | 2355.7 | 2385.9 |
| 37.5° | 1715.1 | 1838.3  | 1956.1  | 1934.2  | 1822.3 | 2007.0 | 2490.1 | 2546.4 |
| 40°   | 2091.1 | 2343.9  | 2535.1  | 2451.6  | 2169.8 | 2153.8 | 2683.7 | 2767.8 |
| 42.5° | 2550.5 | 2979.1  | 3294.1  | 3070.3  | 2618.0 | 2410.8 | 2960.2 | 3067.3 |
| 45°   | 3035.4 | 3762.4  | 4258.5  | 3793.2  | 3095.8 | 2770.7 | 3378.8 | 3462.8 |
| 47.5° | 3546.3 | 4714.4  | 5356.2  | 4594.8  | 3538.6 | 3180.4 | 3949.5 | 3969.0 |
| 50°   | 4105.2 | 5758.2  | 6475.1  | 5395.8  | 3966.1 | 3649.9 | 4646.9 | 4624.4 |
| 52.5° | 4637.4 | 6831.5  | 7570.4  | 6200.4  | 4341.4 | 4232.5 | 5456.2 | 5410.0 |
| 55°   | 5145.4 | 7904.3  | 8672.2  | 6973.6  | 4695.4 | 5002.1 | 6417.7 | 6138.2 |
| 57.5° | 5734.5 | 8868.7  | 9807.7  | 7750.4  | 5190.4 | 6001.5 | 7492.8 | 6561.0 |
| 60°   | 6605.4 | 9964.6  | 11091.8 | 8814.8  | 6131.7 | 7051.8 | 7878.2 | 6480.4 |
| 62.5° | 7717.2 | 10972.2 | 12025.5 | 9858.0  | 7077.2 | 7249.5 | 7310.5 | 5860.0 |
| 65°   | 7933.3 | 11227.4 | 12078.1 | 10136.9 | 6955.2 | 6149.5 | 5968.3 | 4710.2 |
| 67.5° | 7360.2 | 10766.2 | 11341.6 | 9617.6  | 6152.4 | 4752.3 | 4478.8 | 3417.2 |
| 70°   | 6717.2 | 9887.0  | 10058.1 | 8734.9  | 5411.2 | 3495.4 | 3024.7 | 2192.9 |
| 72.5° | 6058.3 | 8714.2  | 8360.2  | 7585.8  | 4755.8 | 2545.2 | 2181.7 | 1558.8 |
| 75°   | 5275.6 | 7171.9  | 6585.2  | 6302.8  | 3937.6 | 1997.5 | 1578.4 | 1075.7 |
| 77.5° | 4224.8 | 5048.3  | 4891.4  | 4885.5  | 2959.0 | 1459.4 | 1053.2 | 674.3  |
| 80°   | 2980.3 | 3276.3  | 3196.4  | 3679.5  | 1985.1 | 1058.6 | 634.1  | 375.4  |
| 82.5° | 1442.8 | 1811.6  | 1859.6  | 2191.1  | 965.6  | 622.8  | 146.2  | 81.7   |
| 85°   | 564.8  | 873.8   | 737.1   | 831.8   | 271.2  | 173.5  | 3.6    | 0.0    |
| 87.5° | 63.3   | 101.2   | 92.9    | 73.4    | 33.2   | 7.1    | 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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