

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: P526314

Luminaire Tested: **GALN-SA1B-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3905 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

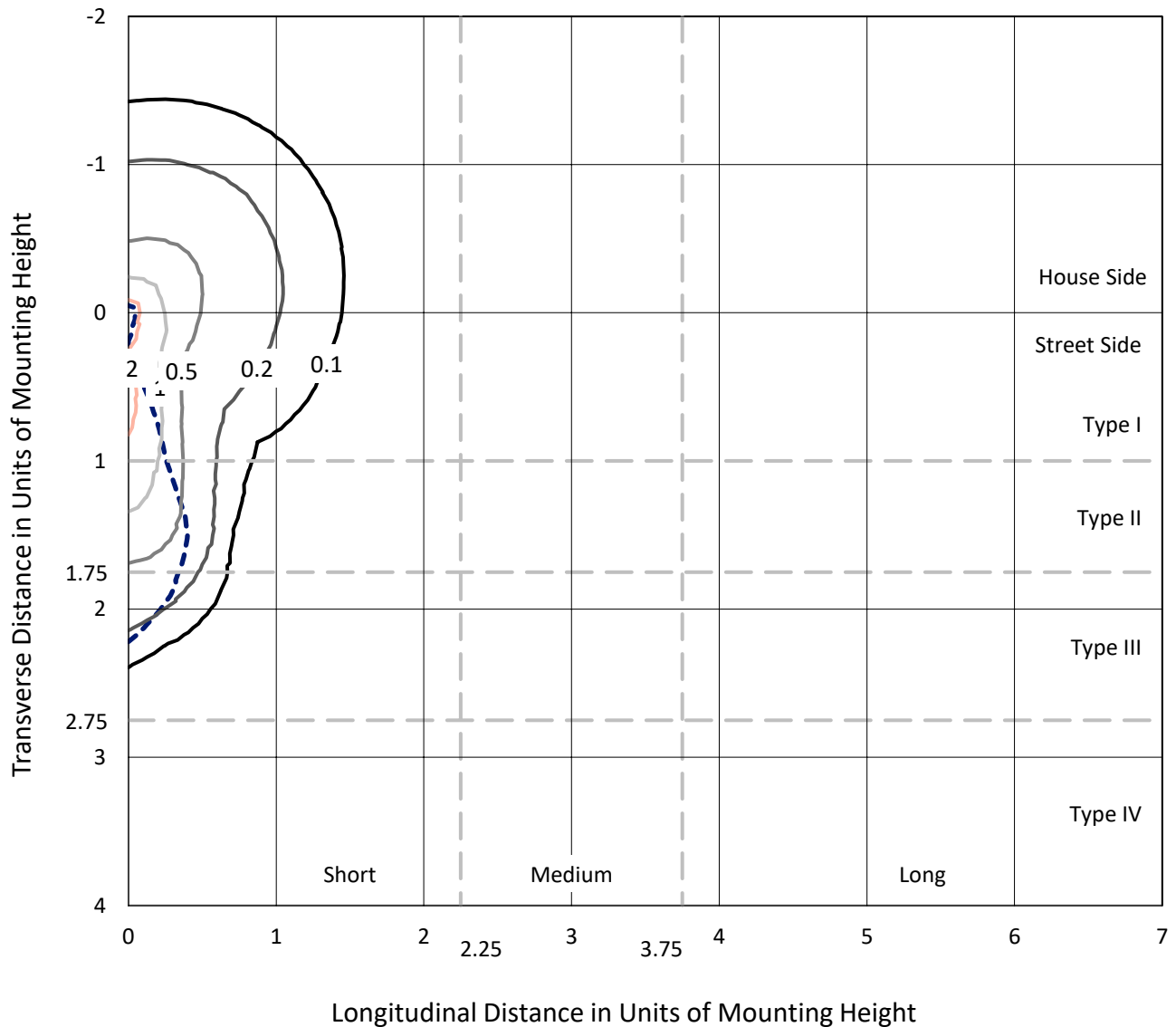
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

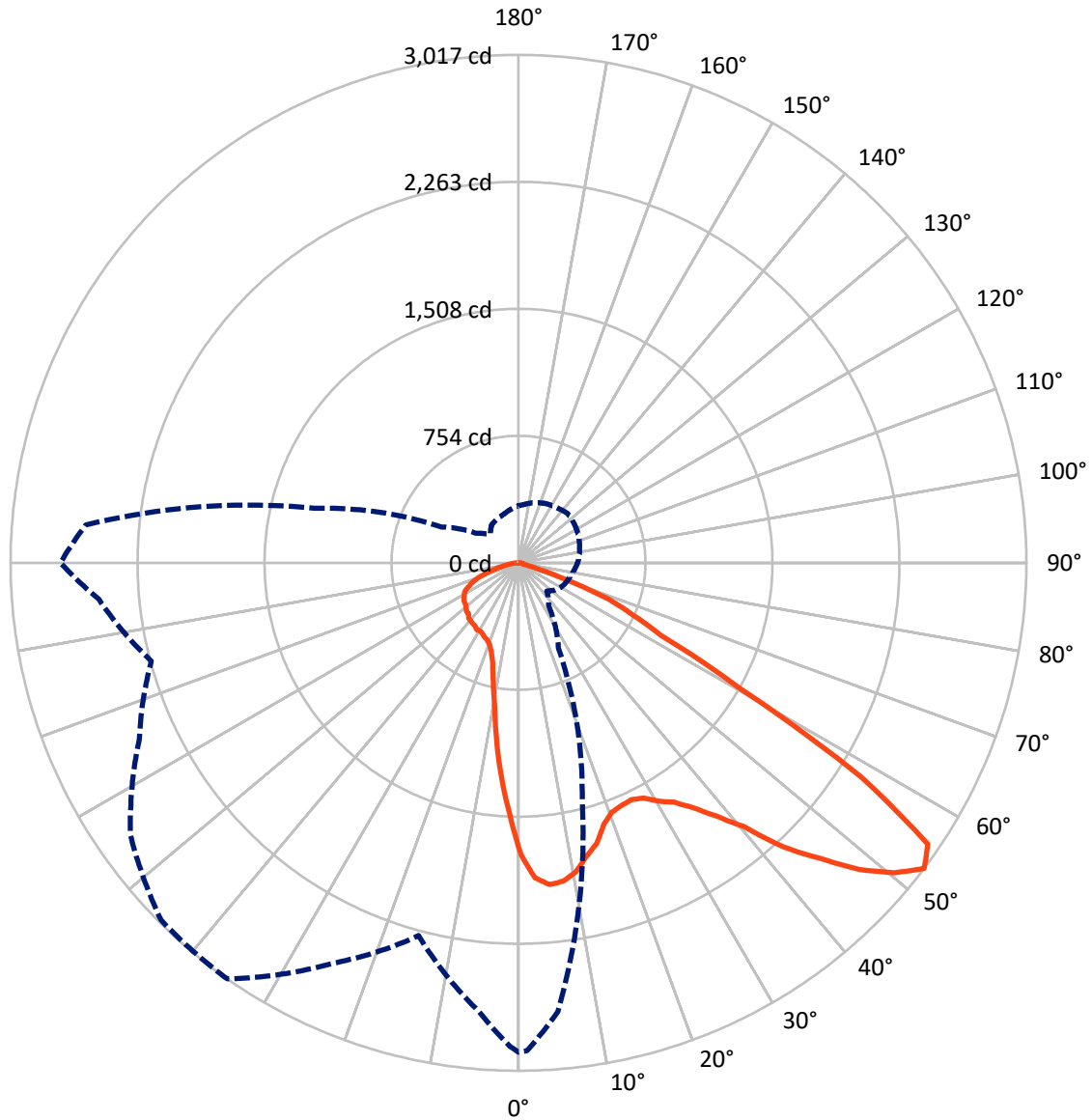
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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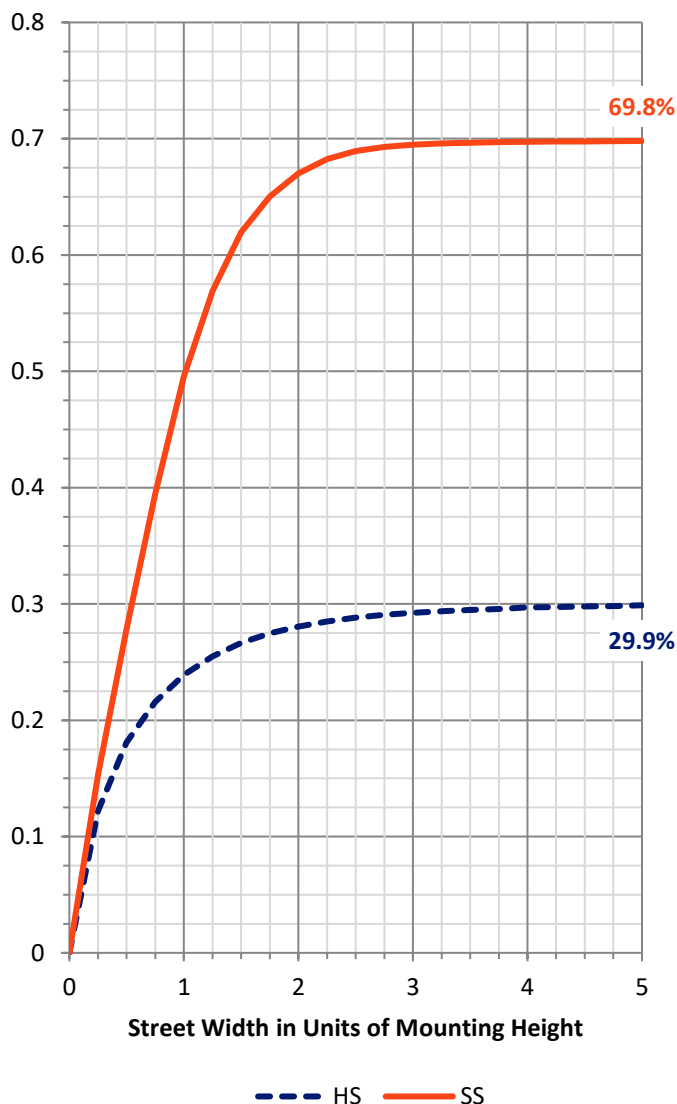
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1177.2   | 0.0    | 1177.2 |
|                    | % Fixture | 30.1     | 0.0    | 30.1   |
| <b>Street Side</b> | Lumens    | 2727.8   | 0.0    | 2727.8 |
|                    | % Fixture | 69.9     | 0.0    | 69.9   |
| <b>Total</b>       | Lumens    | 3905.0   | 0.0    | 3905.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.2  | 3.4       |
| 10°-20°   | 286.6  | 7.3       |
| 20°-30°   | 433.1  | 11.1      |
| 30°-40°   | 625.8  | 16.0      |
| 40°-50°   | 832.8  | 21.3      |
| 50°-60°   | 931.5  | 23.9      |
| 60°-70°   | 525.0  | 13.4      |
| 70°-80°   | 117.0  | 3.0       |
| 80°-90°   | 20.8   | 0.5       |
| 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°    | 3905.0 | 100.0     |
| 0°-180°   | 3905.0 | 100.0     |

**Coefficient of Utilization**

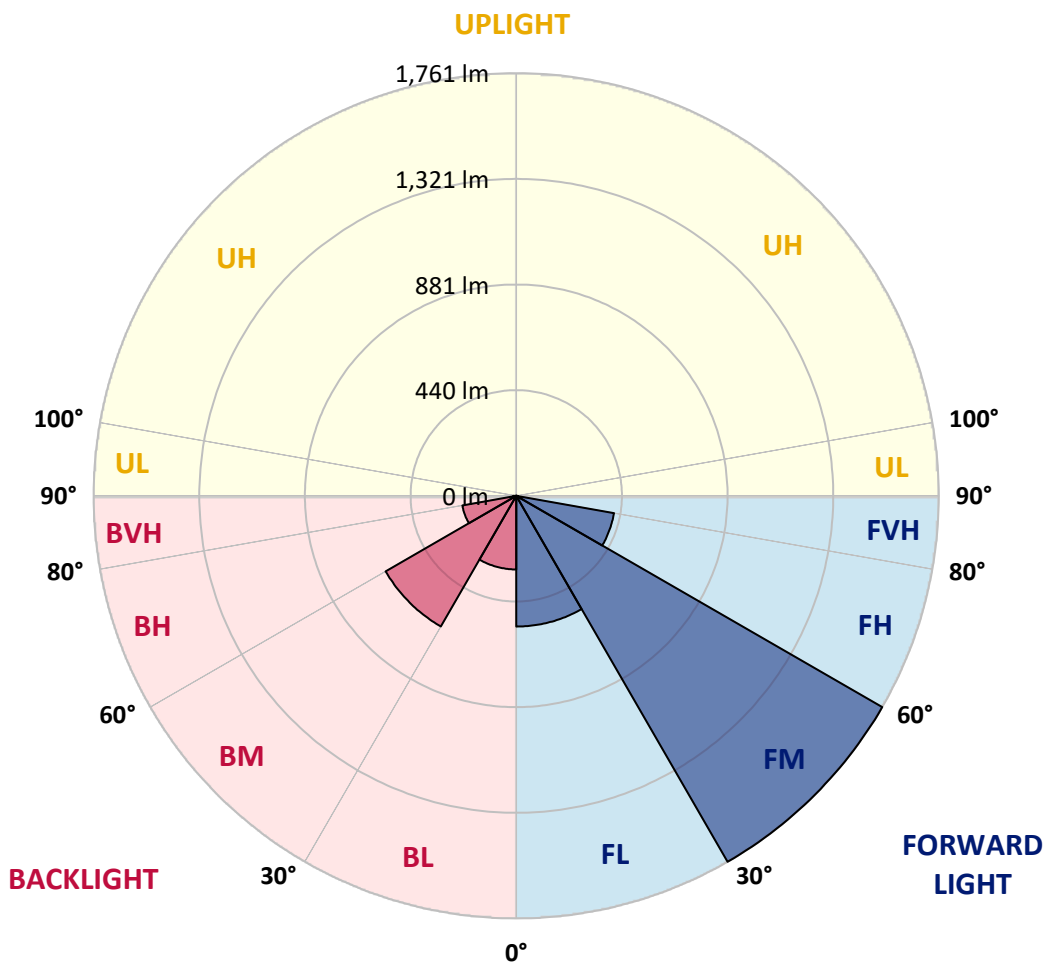


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 544.9  | 14.0      |                         |      |        |
| FM (30°-60°)   | 1761.5 | 45.1      |                         |      |        |
| FH (60°-80°)   | 413.9  | 10.6      |                         |      | G0/660 |
| FVH (80°-90°)  | 7.5    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 307.0  | 7.9       | B1/500                  |      |        |
| BM (30°-60°)   | 628.7  | 16.1      | B1/1000                 |      |        |
| BH (60°-80°)   | 228.2  | 5.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 13.3   | 0.3       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5°  | 1761.9 | 1790.2 | 1759.7 | 1705.3 | 1666.8 | 1631.8 | 1595.0 | 1587.6 | 1539.5 | 1531.0 | 1495.9 |
| 5°    | 1661.7 | 1655.5 | 1618.2 | 1546.9 | 1468.2 | 1396.9 | 1344.2 | 1293.3 | 1258.8 | 1218.6 | 1215.7 |
| 7.5°  | 1540.1 | 1503.8 | 1482.3 | 1374.2 | 1276.9 | 1164.8 | 1116.7 | 1039.2 | 1014.8 | 978.6  | 959.9  |
| 10°   | 1431.4 | 1404.8 | 1354.4 | 1246.3 | 1110.5 | 1036.3 | 984.8  | 942.9  | 914.6  | 877.3  | 830.3  |
| 12.5° | 1377.6 | 1366.9 | 1310.3 | 1142.7 | 1042.0 | 962.7  | 926.5  | 885.8  | 837.7  | 777.7  | 754.5  |
| 15°   | 1387.2 | 1351.0 | 1308.0 | 1122.9 | 983.7  | 907.3  | 849.6  | 798.6  | 736.9  | 679.8  | 646.4  |
| 17.5° | 1459.1 | 1431.4 | 1345.4 | 1135.4 | 961.6  | 851.2  | 746.5  | 671.3  | 615.8  | 564.3  | 541.1  |
| 20°   | 1600.6 | 1560.4 | 1463.7 | 1151.2 | 914.1  | 773.1  | 653.2  | 560.3  | 500.9  | 473.7  | 465.8  |
| 22.5° | 1757.4 | 1733.6 | 1579.1 | 1186.9 | 876.2  | 700.7  | 554.1  | 461.3  | 439.2  | 431.9  | 446.6  |
| 25°   | 1948.1 | 1886.4 | 1758.5 | 1245.2 | 846.7  | 639.0  | 470.3  | 418.8  | 407.5  | 414.9  | 431.9  |
| 27.5° | 2093.0 | 2076.6 | 1884.2 | 1300.1 | 806.5  | 564.9  | 423.4  | 389.4  | 392.8  | 400.2  | 416.0  |
| 30°   | 2265.1 | 2181.9 | 2005.9 | 1338.0 | 770.3  | 513.9  | 390.5  | 381.5  | 384.9  | 397.3  | 405.2  |
| 32.5° | 2368.7 | 2337.5 | 2082.3 | 1395.2 | 728.4  | 469.8  | 365.1  | 356.6  | 361.7  | 380.3  | 399.0  |
| 35°   | 2500.5 | 2438.9 | 2176.8 | 1409.9 | 699.0  | 452.2  | 347.0  | 340.7  | 352.6  | 365.6  | 386.6  |
| 37.5° | 2654.5 | 2612.0 | 2307.5 | 1399.7 | 683.2  | 434.1  | 331.7  | 328.8  | 337.3  | 355.4  | 379.8  |
| 40°   | 2745.6 | 2732.6 | 2376.0 | 1405.9 | 658.2  | 418.3  | 314.1  | 317.5  | 335.1  | 349.2  | 373.0  |
| 42.5° | 2833.3 | 2748.5 | 2477.3 | 1403.7 | 642.4  | 396.8  | 315.8  | 311.9  | 325.4  | 341.9  | 364.5  |
| 45°   | 2852.6 | 2768.3 | 2501.1 | 1387.8 | 623.2  | 375.8  | 302.8  | 304.5  | 320.9  | 341.3  | 356.0  |
| 47.5° | 2840.1 | 2777.9 | 2545.3 | 1383.3 | 605.0  | 361.1  | 283.6  | 303.9  | 313.6  | 330.0  | 350.9  |
| 50°   | 2831.7 | 2828.3 | 2582.6 | 1404.8 | 580.7  | 337.9  | 260.4  | 296.6  | 306.2  | 322.6  | 345.3  |
| 52.5° | 2906.4 | 2899.0 | 2676.0 | 1461.4 | 561.5  | 313.0  | 236.6  | 277.9  | 301.1  | 317.0  | 339.0  |
| 55°   | 2951.6 | 2919.4 | 2836.2 | 1531.0 | 529.2  | 280.2  | 220.2  | 254.7  | 288.7  | 302.8  | 325.4  |
| 57.5° | 2655.1 | 2633.0 | 2565.6 | 1429.1 | 474.9  | 237.2  | 199.8  | 230.9  | 271.7  | 293.7  | 317.0  |
| 60°   | 2209.1 | 2174.5 | 2001.9 | 1214.6 | 350.3  | 184.5  | 187.3  | 212.2  | 267.1  | 275.6  | 302.8  |
| 62.5° | 2082.8 | 1997.4 | 1762.5 | 977.5  | 268.8  | 158.5  | 168.1  | 195.3  | 243.4  | 257.5  | 284.7  |
| 65°   | 1652.7 | 1589.3 | 1261.0 | 705.8  | 180.0  | 137.5  | 153.4  | 176.0  | 210.0  | 237.7  | 262.6  |
| 67.5° | 1034.6 | 974.1  | 673.0  | 333.9  | 125.6  | 117.7  | 137.0  | 160.7  | 188.5  | 213.4  | 241.1  |
| 70°   | 540.5  | 474.3  | 310.7  | 120.6  | 86.6   | 96.2   | 114.3  | 137.0  | 164.1  | 184.5  | 206.0  |
| 72.5° | 201.5  | 163.6  | 101.3  | 52.1   | 60.0   | 73.6   | 92.8   | 109.2  | 128.5  | 153.4  | 165.3  |
| 75°   | 31.1   | 26.6   | 26.0   | 31.7   | 40.8   | 53.2   | 66.2   | 82.6   | 99.6   | 115.5  | 123.4  |
| 77.5° | 14.7   | 14.1   | 15.8   | 20.9   | 27.2   | 37.9   | 48.1   | 64.0   | 77.5   | 87.7   | 92.3   |
| 80°   | 9.6    | 9.1    | 10.2   | 14.1   | 20.4   | 28.3   | 38.5   | 49.2   | 61.7   | 70.2   | 69.1   |
| 82.5° | 5.7    | 6.2    | 6.2    | 9.6    | 14.1   | 20.4   | 27.7   | 37.4   | 45.8   | 53.2   | 48.7   |
| 85°   | 3.4    | 2.8    | 2.8    | 5.7    | 9.6    | 16.4   | 23.2   | 15.8   | 16.4   | 16.4   | 18.7   |
| 87.5° | 1.1    | 1.1    | 1.1    | 0.6    | 1.1    | 1.1    | 1.7    | 2.8    | 3.4    | 4.0    | 5.1    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5°  | 1494.8 | 1512.3 | 1506.1 | 1484.0 | 1501.0 | 1503.8 | 1492.5 | 1531.6 | 1538.9 | 1527.0 | 1530.4 |
| 5°    | 1211.8 | 1216.3 | 1226.5 | 1248.0 | 1263.3 | 1281.4 | 1281.4 | 1282.5 | 1267.3 | 1305.7 | 1294.4 |
| 7.5°  | 944.1  | 946.9  | 958.8  | 1004.6 | 1017.7 | 1052.2 | 1066.9 | 1056.7 | 1026.1 | 1013.1 | 1023.9 |
| 10°   | 815.0  | 798.6  | 794.7  | 800.3  | 829.7  | 844.5  | 856.9  | 853.5  | 848.4  | 838.2  | 826.9  |
| 12.5° | 729.0  | 717.1  | 707.5  | 693.9  | 695.6  | 709.8  | 719.4  | 711.5  | 713.7  | 716.0  | 719.4  |
| 15°   | 635.6  | 627.1  | 622.0  | 601.6  | 599.4  | 609.0  | 612.4  | 616.9  | 625.4  | 626.0  | 622.0  |
| 17.5° | 536.6  | 529.2  | 540.5  | 551.8  | 543.9  | 544.5  | 550.7  | 554.7  | 552.4  | 542.2  | 537.1  |
| 20°   | 468.6  | 476.6  | 487.9  | 498.6  | 507.1  | 512.2  | 514.5  | 508.3  | 500.9  | 480.0  | 479.4  |
| 22.5° | 448.8  | 459.0  | 468.6  | 485.1  | 493.0  | 506.0  | 494.1  | 480.0  | 469.8  | 459.6  | 447.7  |
| 25°   | 434.1  | 442.6  | 461.8  | 468.1  | 483.4  | 494.1  | 485.6  | 471.5  | 453.9  | 439.2  | 430.2  |
| 27.5° | 423.4  | 433.0  | 445.4  | 462.4  | 474.3  | 480.5  | 472.0  | 466.4  | 448.3  | 430.7  | 417.7  |
| 30°   | 416.6  | 426.8  | 449.4  | 463.5  | 473.7  | 478.8  | 464.1  | 457.3  | 444.3  | 429.6  | 418.3  |
| 32.5° | 412.0  | 421.1  | 440.3  | 458.5  | 465.2  | 465.2  | 467.5  | 459.6  | 441.5  | 416.6  | 406.9  |
| 35°   | 397.3  | 409.8  | 425.6  | 446.6  | 459.0  | 466.4  | 455.1  | 446.0  | 434.1  | 408.6  | 391.1  |
| 37.5° | 388.8  | 397.3  | 417.7  | 437.5  | 448.3  | 456.2  | 451.7  | 435.8  | 420.0  | 399.0  | 384.9  |
| 40°   | 379.8  | 393.4  | 411.5  | 430.2  | 442.0  | 450.0  | 446.6  | 427.9  | 408.6  | 388.8  | 379.2  |
| 42.5° | 373.6  | 382.6  | 401.3  | 422.2  | 436.4  | 451.7  | 441.5  | 418.3  | 404.7  | 377.5  | 366.8  |
| 45°   | 368.5  | 383.2  | 403.0  | 411.5  | 426.2  | 442.0  | 423.9  | 409.8  | 393.9  | 374.1  | 365.1  |
| 47.5° | 362.2  | 375.8  | 388.8  | 411.5  | 418.3  | 425.6  | 422.2  | 399.6  | 386.0  | 364.5  | 358.3  |
| 50°   | 360.0  | 365.1  | 388.8  | 401.3  | 410.9  | 418.3  | 409.2  | 392.2  | 379.2  | 357.1  | 343.6  |
| 52.5° | 350.9  | 360.5  | 375.8  | 392.2  | 404.1  | 413.2  | 398.5  | 387.7  | 370.2  | 347.0  | 338.5  |
| 55°   | 339.6  | 345.3  | 372.4  | 389.4  | 395.6  | 401.9  | 396.2  | 378.6  | 360.5  | 336.8  | 328.3  |
| 57.5° | 324.9  | 337.9  | 360.0  | 383.7  | 391.7  | 395.1  | 386.0  | 371.9  | 349.2  | 328.3  | 314.7  |
| 60°   | 309.6  | 323.2  | 347.5  | 366.8  | 374.7  | 387.1  | 373.6  | 365.1  | 339.0  | 315.8  | 301.1  |
| 62.5° | 294.3  | 309.6  | 327.7  | 352.0  | 358.8  | 363.9  | 360.5  | 348.7  | 327.7  | 301.7  | 283.6  |
| 65°   | 276.2  | 287.5  | 310.2  | 322.6  | 327.1  | 339.0  | 327.1  | 322.6  | 303.9  | 279.0  | 263.8  |
| 67.5° | 249.0  | 258.7  | 278.5  | 290.4  | 293.7  | 298.8  | 298.3  | 293.2  | 272.2  | 255.3  | 241.7  |
| 70°   | 217.9  | 226.4  | 238.8  | 253.0  | 254.7  | 260.9  | 255.3  | 254.1  | 240.5  | 217.3  | 210.0  |
| 72.5° | 174.9  | 182.8  | 199.2  | 205.5  | 206.0  | 208.3  | 205.5  | 201.5  | 198.1  | 173.8  | 166.4  |
| 75°   | 134.1  | 138.7  | 146.6  | 152.3  | 152.3  | 155.1  | 153.4  | 149.4  | 140.4  | 125.1  | 117.7  |
| 77.5° | 93.4   | 97.9   | 108.1  | 111.5  | 110.9  | 112.1  | 107.0  | 103.0  | 89.4   | 81.5   | 75.3   |
| 80°   | 67.9   | 70.7   | 75.8   | 78.1   | 78.7   | 80.4   | 74.1   | 70.7   | 62.8   | 53.8   | 50.9   |
| 82.5° | 49.2   | 50.9   | 51.5   | 54.3   | 54.3   | 51.5   | 49.8   | 46.4   | 40.8   | 35.1   | 32.8   |
| 85°   | 20.4   | 20.9   | 21.5   | 24.9   | 25.5   | 30.6   | 28.3   | 26.6   | 23.2   | 19.8   | 18.1   |
| 87.5° | 5.1    | 5.7    | 7.4    | 6.2    | 7.4    | 7.4    | 7.9    | 9.1    | 9.1    | 7.4    | 7.4    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5°  | 1543.5 | 1548.0 | 1605.7 | 1613.1 | 1641.4 | 1670.2 | 1728.5 | 1770.4 | 1804.4 | 1826.5 | 1832.7 |
| 5°    | 1306.3 | 1335.2 | 1361.8 | 1404.8 | 1443.8 | 1499.3 | 1563.3 | 1642.5 | 1742.1 | 1793.1 | 1813.4 |
| 7.5°  | 1022.7 | 1056.7 | 1095.2 | 1137.1 | 1194.2 | 1293.9 | 1379.3 | 1471.0 | 1598.4 | 1651.0 | 1730.8 |
| 10°   | 834.8  | 872.8  | 923.7  | 956.0  | 1025.0 | 1120.1 | 1219.7 | 1325.5 | 1447.2 | 1523.1 | 1615.3 |
| 12.5° | 738.1  | 769.2  | 816.2  | 884.1  | 935.6  | 997.3  | 1071.4 | 1205.0 | 1379.3 | 1451.2 | 1514.6 |
| 15°   | 631.1  | 665.6  | 719.9  | 795.2  | 856.9  | 930.5  | 1013.7 | 1159.1 | 1344.8 | 1455.7 | 1509.5 |
| 17.5° | 542.8  | 567.7  | 624.9  | 689.9  | 760.7  | 841.1  | 960.5  | 1156.9 | 1381.0 | 1523.1 | 1610.8 |
| 20°   | 481.7  | 485.1  | 516.2  | 571.7  | 667.9  | 772.6  | 927.7  | 1145.6 | 1497.0 | 1639.1 | 1750.0 |
| 22.5° | 443.2  | 439.8  | 440.3  | 487.3  | 554.7  | 705.2  | 876.2  | 1184.1 | 1628.9 | 1823.6 | 1898.3 |
| 25°   | 423.9  | 414.9  | 409.2  | 419.4  | 480.5  | 625.4  | 837.1  | 1235.0 | 1771.0 | 1975.9 | 2067.6 |
| 27.5° | 413.7  | 397.9  | 386.6  | 388.3  | 433.0  | 585.2  | 812.8  | 1257.1 | 1911.9 | 2188.1 | 2220.4 |
| 30°   | 409.8  | 390.0  | 373.6  | 367.9  | 397.3  | 529.2  | 760.7  | 1295.0 | 2038.1 | 2304.7 | 2332.4 |
| 32.5° | 395.6  | 371.3  | 355.4  | 350.3  | 362.2  | 480.0  | 723.3  | 1322.2 | 2149.6 | 2431.5 | 2421.9 |
| 35°   | 379.2  | 358.8  | 339.0  | 329.4  | 337.9  | 448.3  | 693.3  | 1309.1 | 2280.9 | 2530.0 | 2524.9 |
| 37.5° | 377.5  | 350.9  | 334.5  | 318.7  | 318.1  | 409.2  | 652.6  | 1321.6 | 2364.7 | 2706.6 | 2636.9 |
| 40°   | 362.8  | 345.8  | 324.3  | 311.3  | 303.9  | 389.4  | 613.0  | 1292.2 | 2487.5 | 2777.9 | 2709.4 |
| 42.5° | 363.4  | 337.9  | 319.2  | 303.9  | 296.6  | 360.5  | 585.8  | 1284.2 | 2530.5 | 2893.9 | 2743.4 |
| 45°   | 354.3  | 329.4  | 313.6  | 295.4  | 291.5  | 338.5  | 559.8  | 1247.4 | 2606.4 | 2899.6 | 2700.9 |
| 47.5° | 345.3  | 323.2  | 306.2  | 284.7  | 275.6  | 330.5  | 539.4  | 1216.9 | 2566.8 | 2846.4 | 2642.0 |
| 50°   | 339.0  | 313.6  | 297.7  | 282.4  | 257.0  | 317.0  | 512.8  | 1209.5 | 2511.3 | 2774.5 | 2532.8 |
| 52.5° | 328.3  | 305.6  | 289.2  | 277.3  | 236.6  | 304.5  | 502.6  | 1252.5 | 2579.2 | 2720.7 | 2501.1 |
| 55°   | 318.1  | 294.9  | 273.9  | 250.7  | 219.6  | 271.7  | 474.3  | 1292.7 | 2678.3 | 2844.7 | 2644.9 |
| 57.5° | 307.3  | 285.3  | 262.6  | 234.9  | 203.2  | 237.7  | 444.9  | 1300.1 | 2492.6 | 2629.0 | 2510.7 |
| 60°   | 293.2  | 264.9  | 247.9  | 211.7  | 185.6  | 197.0  | 352.6  | 1146.1 | 1933.4 | 2195.5 | 2199.4 |
| 62.5° | 277.3  | 246.8  | 232.1  | 189.6  | 167.5  | 169.8  | 287.5  | 963.3  | 1568.4 | 1817.4 | 1925.5 |
| 65°   | 256.4  | 227.0  | 209.4  | 175.5  | 154.5  | 147.2  | 210.5  | 705.8  | 1191.4 | 1474.4 | 1597.2 |
| 67.5° | 229.2  | 201.5  | 179.4  | 152.8  | 138.1  | 126.2  | 143.8  | 397.3  | 703.5  | 989.9  | 1027.3 |
| 70°   | 200.4  | 176.6  | 153.4  | 131.3  | 114.9  | 106.4  | 105.3  | 176.0  | 336.2  | 532.6  | 606.2  |
| 72.5° | 157.9  | 140.9  | 122.3  | 105.8  | 95.1   | 82.6   | 75.3   | 73.0   | 113.8  | 216.8  | 299.4  |
| 75°   | 113.2  | 99.0   | 88.3   | 77.5   | 69.6   | 62.8   | 57.2   | 52.1   | 47.5   | 54.3   | 74.7   |
| 77.5° | 71.3   | 66.2   | 57.7   | 54.9   | 50.4   | 48.7   | 46.4   | 43.6   | 40.2   | 37.9   | 37.9   |
| 80°   | 48.1   | 44.7   | 41.9   | 41.3   | 39.6   | 39.1   | 39.6   | 36.8   | 33.4   | 30.6   | 31.7   |
| 82.5° | 32.3   | 31.7   | 31.1   | 30.6   | 31.1   | 31.7   | 32.8   | 32.3   | 29.4   | 27.7   | 28.3   |
| 85°   | 19.2   | 20.4   | 21.5   | 22.6   | 24.9   | 22.1   | 18.1   | 15.3   | 13.6   | 12.5   | 11.9   |
| 87.5° | 7.4    | 10.2   | 9.1    | 8.5    | 9.1    | 8.5    | 7.9    | 7.4    | 6.2    | 5.7    | 5.7    |
| 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°    | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5°  | 1874.0 | 1885.3 | 1894.9 | 1892.7 | 1872.9 | 1846.3 | 1835.5 | 1780.6 | 1769.3 | 1761.9 |
| 5°    | 1899.5 | 1965.1 | 1979.3 | 1970.8 | 1919.3 | 1854.2 | 1790.8 | 1710.4 | 1663.4 | 1661.7 |
| 7.5°  | 1852.5 | 1933.4 | 1958.9 | 1978.1 | 1909.7 | 1796.5 | 1687.8 | 1567.2 | 1537.8 | 1540.1 |
| 10°   | 1733.1 | 1862.1 | 1924.9 | 1944.7 | 1866.1 | 1768.2 | 1617.6 | 1495.3 | 1432.5 | 1431.4 |
| 12.5° | 1666.8 | 1768.2 | 1785.7 | 1813.4 | 1790.2 | 1691.2 | 1576.8 | 1439.9 | 1378.8 | 1377.6 |
| 15°   | 1608.0 | 1674.8 | 1679.9 | 1718.9 | 1731.4 | 1664.6 | 1587.6 | 1441.6 | 1392.3 | 1387.2 |
| 17.5° | 1659.5 | 1613.1 | 1593.8 | 1598.9 | 1635.7 | 1660.1 | 1649.9 | 1537.8 | 1487.4 | 1459.1 |
| 20°   | 1694.0 | 1590.4 | 1532.1 | 1537.8 | 1581.4 | 1670.2 | 1742.7 | 1677.0 | 1597.2 | 1600.6 |
| 22.5° | 1786.3 | 1593.8 | 1502.7 | 1496.5 | 1565.5 | 1723.4 | 1847.4 | 1853.1 | 1776.1 | 1757.4 |
| 25°   | 1924.4 | 1632.9 | 1493.6 | 1492.0 | 1558.2 | 1780.6 | 1969.6 | 2061.3 | 1982.7 | 1948.1 |
| 27.5° | 2035.3 | 1694.0 | 1521.9 | 1527.6 | 1581.4 | 1827.0 | 2073.8 | 2195.5 | 2135.5 | 2093.0 |
| 30°   | 2132.7 | 1757.4 | 1561.6 | 1535.5 | 1643.6 | 1851.4 | 2118.5 | 2348.3 | 2300.2 | 2265.1 |
| 32.5° | 2172.8 | 1847.4 | 1624.4 | 1581.4 | 1695.1 | 1880.8 | 2211.3 | 2496.6 | 2455.3 | 2368.7 |
| 35°   | 2240.8 | 1897.8 | 1658.4 | 1655.0 | 1785.1 | 1951.5 | 2254.9 | 2594.5 | 2577.5 | 2500.5 |
| 37.5° | 2295.1 | 1948.7 | 1778.9 | 1741.6 | 1908.5 | 2070.4 | 2325.1 | 2729.8 | 2690.7 | 2654.5 |
| 40°   | 2337.0 | 2039.8 | 1891.5 | 1940.8 | 2060.2 | 2178.5 | 2389.6 | 2738.3 | 2850.9 | 2745.6 |
| 42.5° | 2298.5 | 2121.3 | 2076.6 | 2194.3 | 2307.5 | 2301.9 | 2397.0 | 2803.9 | 2888.2 | 2833.3 |
| 45°   | 2288.9 | 2259.4 | 2369.2 | 2476.2 | 2502.2 | 2404.3 | 2344.3 | 2731.5 | 2876.9 | 2852.6 |
| 47.5° | 2265.7 | 2395.3 | 2586.6 | 2760.9 | 2721.3 | 2472.8 | 2281.5 | 2718.5 | 2883.7 | 2840.1 |
| 50°   | 2257.7 | 2424.7 | 2747.3 | 2917.1 | 2893.3 | 2532.2 | 2252.1 | 2634.7 | 2835.6 | 2831.7 |
| 52.5° | 2257.2 | 2485.3 | 2814.1 | 3002.0 | 3016.7 | 2626.2 | 2292.3 | 2677.1 | 2873.0 | 2906.4 |
| 55°   | 2282.6 | 2466.0 | 2805.6 | 2955.0 | 2949.4 | 2584.3 | 2296.8 | 2705.4 | 2918.8 | 2951.6 |
| 57.5° | 2153.0 | 2209.1 | 2315.5 | 2433.8 | 2403.2 | 2140.6 | 2051.1 | 2501.1 | 2678.8 | 2655.1 |
| 60°   | 1859.3 | 1683.8 | 1563.8 | 1558.2 | 1498.7 | 1416.7 | 1678.7 | 2232.3 | 2232.3 | 2209.1 |
| 62.5° | 1628.4 | 1105.4 | 949.7  | 905.6  | 948.0  | 1042.6 | 1619.3 | 2171.1 | 2109.4 | 2082.8 |
| 65°   | 1424.0 | 843.9  | 686.5  | 674.1  | 747.7  | 890.3  | 1464.2 | 1849.7 | 1741.0 | 1652.7 |
| 67.5° | 916.3  | 618.1  | 510.5  | 488.4  | 577.3  | 653.7  | 974.6  | 1137.6 | 1069.2 | 1034.6 |
| 70°   | 590.9  | 402.4  | 284.1  | 266.6  | 301.1  | 403.0  | 622.6  | 663.3  | 563.7  | 540.5  |
| 72.5° | 279.6  | 173.8  | 99.6   | 82.1   | 92.3   | 153.9  | 246.2  | 264.9  | 220.2  | 201.5  |
| 75°   | 88.9   | 64.0   | 40.8   | 35.1   | 33.4   | 39.6   | 56.6   | 43.6   | 31.7   | 31.1   |
| 77.5° | 39.6   | 37.9   | 32.3   | 27.2   | 23.8   | 19.8   | 16.4   | 13.6   | 14.1   | 14.7   |
| 80°   | 32.8   | 30.0   | 26.6   | 23.8   | 19.8   | 15.3   | 11.9   | 9.1    | 9.1    | 9.6    |
| 82.5° | 28.9   | 26.0   | 23.2   | 19.8   | 17.0   | 12.5   | 9.1    | 6.2    | 5.7    | 5.7    |
| 85°   | 12.5   | 14.7   | 15.8   | 17.0   | 13.6   | 10.2   | 6.2    | 4.0    | 3.4    | 3.4    |
| 87.5° | 5.1    | 4.5    | 4.0    | 3.4    | 2.8    | 2.8    | 2.3    | 1.7    | 1.1    | 1.1    |
| 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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