

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: STREETWORKS

Report Number: P948012

Luminaire Tested: **GLAN-SB3A-940-U-SLR-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948012  
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: STREETWORKS  
Catalog Number: GLAN-SB3A-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

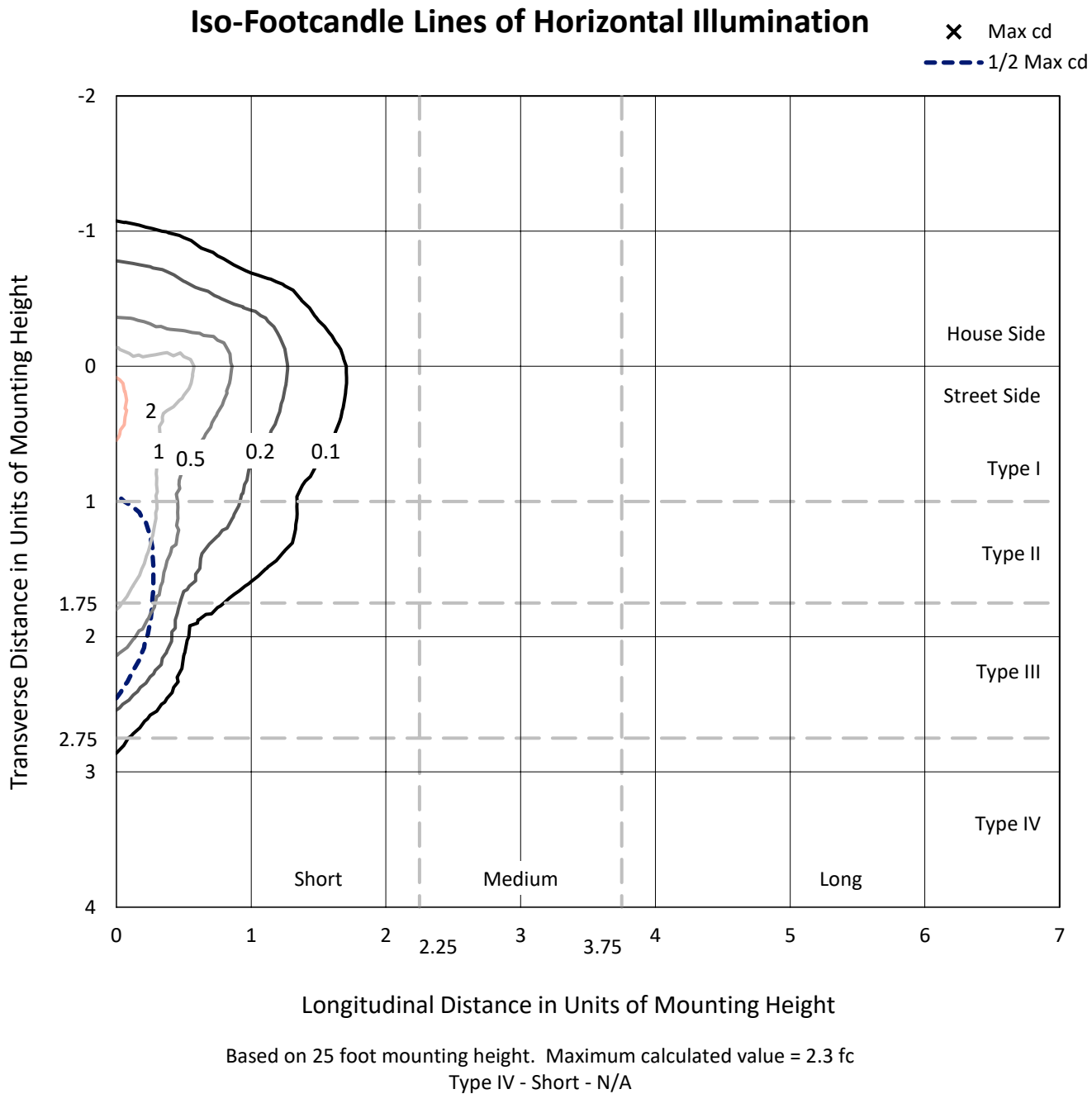
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7443 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7  
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

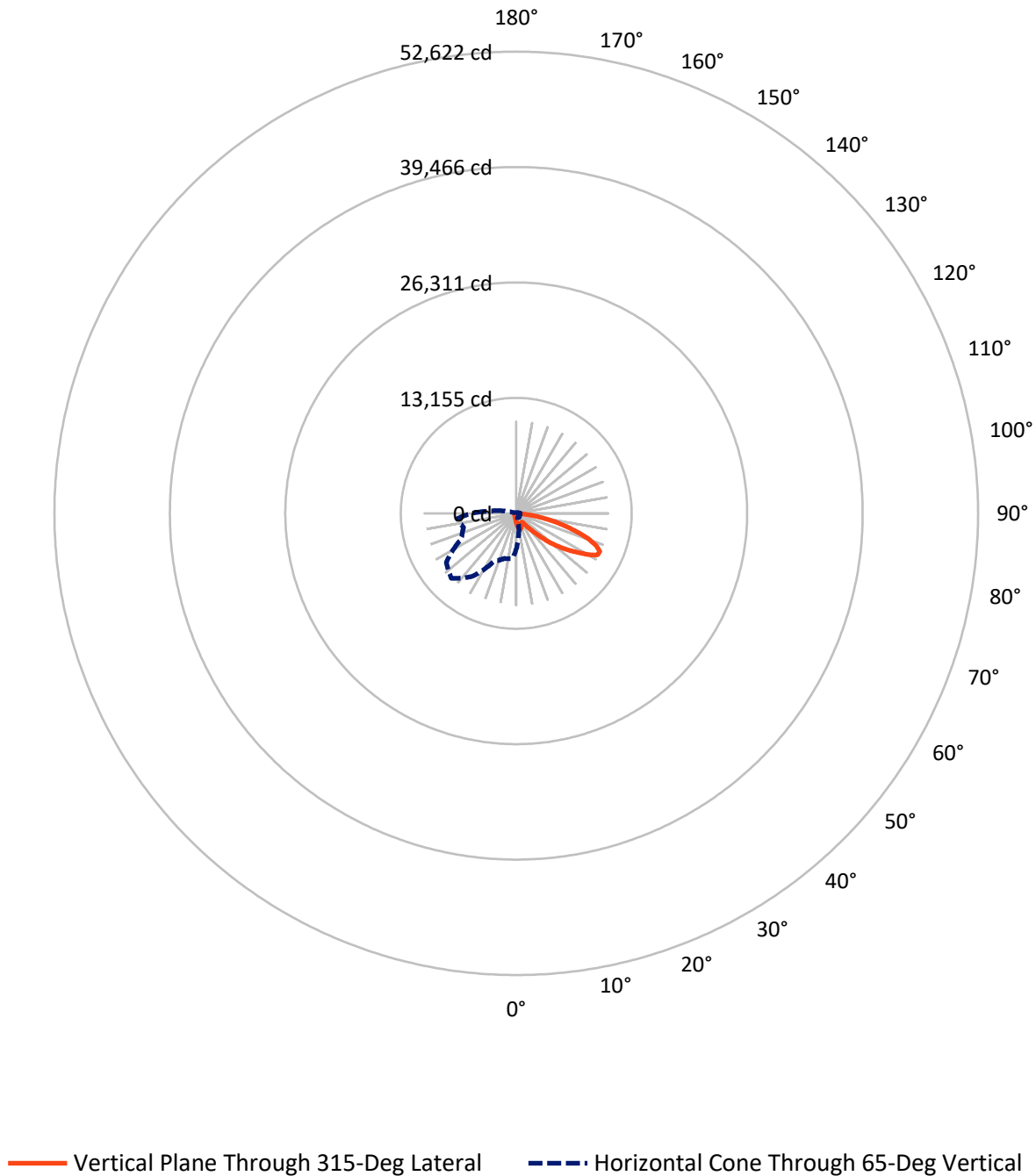


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## Luminous Intensity Polar Plot



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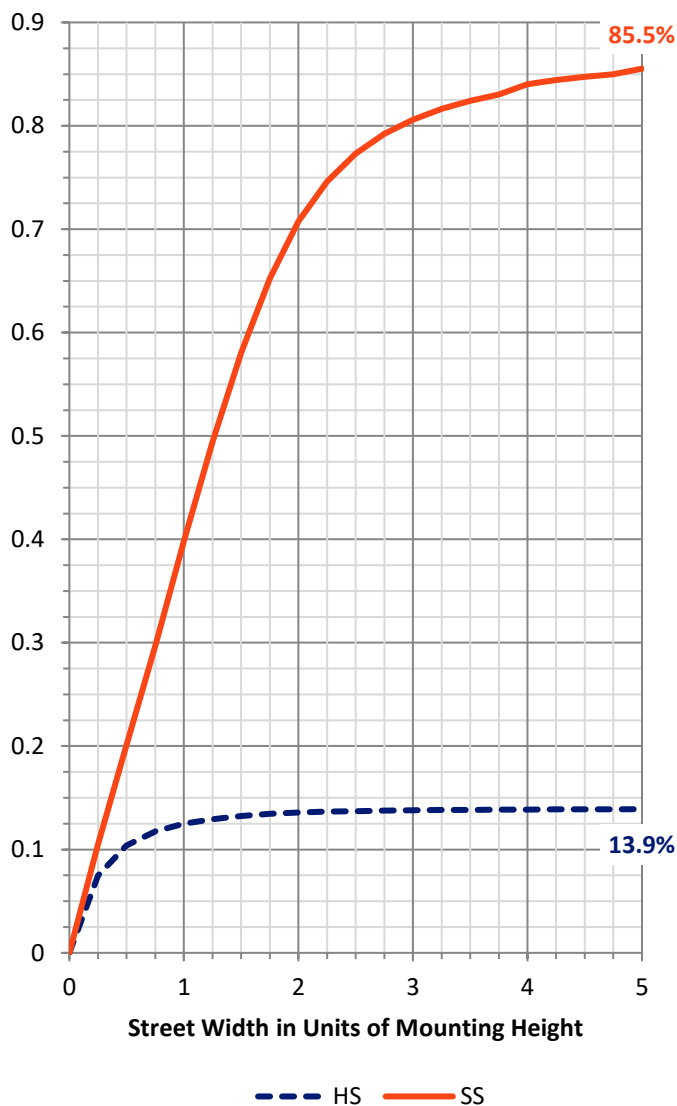
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1042.3   | 0.0    | 1042.3 |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 6400.7   | 0.0    | 6400.7 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 7443.0   | 0.0    | 7443.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.5  | 1.4       |
| 10°-20°   | 304.2  | 4.1       |
| 20°-30°   | 448.1  | 6.0       |
| 30°-40°   | 575.7  | 7.7       |
| 40°-50°   | 931.1  | 12.5      |
| 50°-60°   | 1632.7 | 21.9      |
| 60°-70°   | 2043.0 | 27.4      |
| 70°-80°   | 1193.8 | 16.0      |
| 80°-90°   | 213.0  | 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°    | 7443.0 | 100.0     |
| 0°-180°   | 7443.0 | 100.0     |

**Coefficient of Utilization**



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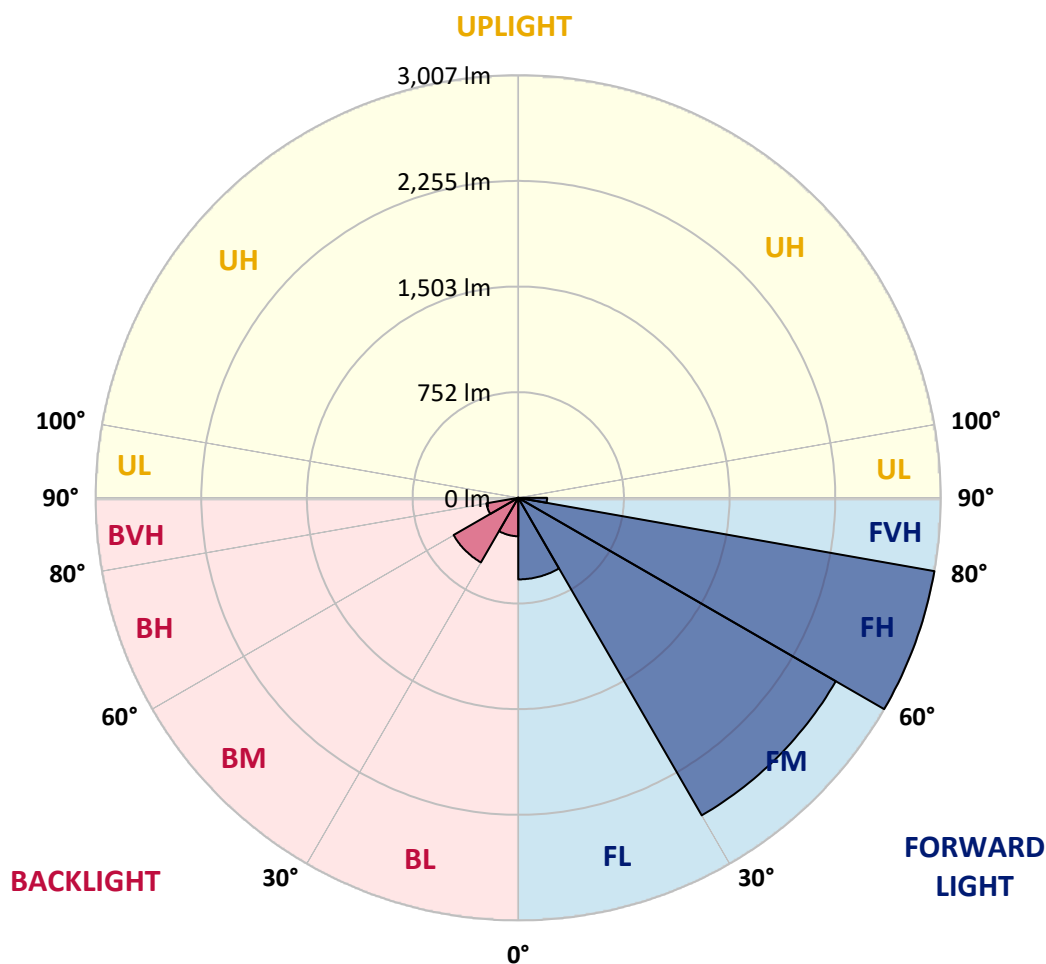
CATALOG NUMBER: GLAN-SB3A-940-U-SLR-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 580.5  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 2608.7 | 35.0      |                         |      |         |
| FH   | (60°-80°)   | 3006.6 | 40.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 204.8  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 273.2  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 530.8  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 230.2  | 3.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.2    | 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°    | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 |
| 2.5°  | 1164.4 | 1144.4 | 1132.7 | 1103.4 | 1074.2 | 1050.6 | 1018.8 | 997.8  | 972.7  | 948.6  |
| 5°    | 1297.8 | 1265.5 | 1226.5 | 1173.2 | 1124.4 | 1074.7 | 1026.5 | 978.8  | 928.6  | 882.4  |
| 7.5°  | 1410.6 | 1363.9 | 1295.2 | 1224.4 | 1162.4 | 1102.4 | 1046.0 | 982.9  | 921.9  | 849.6  |
| 10°   | 1496.7 | 1437.2 | 1347.0 | 1254.2 | 1182.9 | 1122.4 | 1067.5 | 1014.2 | 952.7  | 865.5  |
| 12.5° | 1549.0 | 1485.4 | 1378.3 | 1269.6 | 1188.0 | 1120.3 | 1077.8 | 1054.2 | 1030.1 | 943.5  |
| 15°   | 1587.5 | 1518.8 | 1400.3 | 1280.3 | 1176.2 | 1093.2 | 1061.9 | 1085.5 | 1113.2 | 1057.8 |
| 17.5° | 1627.5 | 1555.2 | 1429.0 | 1284.9 | 1144.4 | 1040.4 | 1027.0 | 1088.0 | 1152.1 | 1149.6 |
| 20°   | 1665.4 | 1593.6 | 1454.1 | 1281.9 | 1093.2 | 976.3  | 988.1  | 1066.0 | 1140.3 | 1171.6 |
| 22.5° | 1709.0 | 1633.1 | 1478.2 | 1270.1 | 1026.5 | 916.3  | 953.2  | 1031.1 | 1096.2 | 1133.2 |
| 25°   | 1762.3 | 1682.8 | 1512.1 | 1252.6 | 954.7  | 866.5  | 917.8  | 990.6  | 1043.4 | 1069.1 |
| 27.5° | 1819.7 | 1742.3 | 1557.2 | 1243.4 | 896.8  | 831.2  | 877.8  | 942.4  | 989.6  | 1007.5 |
| 30°   | 1891.0 | 1811.5 | 1610.5 | 1233.2 | 858.8  | 810.6  | 836.3  | 886.5  | 932.7  | 950.6  |
| 32.5° | 1968.9 | 1888.4 | 1661.8 | 1208.5 | 835.8  | 795.3  | 795.8  | 827.6  | 869.6  | 891.2  |
| 35°   | 2066.4 | 1980.7 | 1716.7 | 1154.7 | 817.3  | 777.3  | 756.3  | 771.7  | 806.5  | 832.2  |
| 37.5° | 2205.3 | 2101.7 | 1783.8 | 1077.8 | 790.1  | 749.6  | 714.8  | 718.4  | 745.0  | 773.2  |
| 40°   | 2397.1 | 2264.3 | 1862.8 | 997.8  | 751.2  | 710.7  | 669.1  | 667.6  | 687.1  | 714.8  |
| 42.5° | 2656.5 | 2479.1 | 1957.7 | 921.4  | 713.7  | 663.5  | 620.9  | 618.4  | 633.8  | 657.9  |
| 45°   | 2999.0 | 2754.0 | 2074.1 | 855.8  | 684.5  | 617.3  | 575.3  | 574.3  | 587.1  | 608.1  |
| 47.5° | 3437.4 | 3135.9 | 2190.4 | 811.2  | 669.1  | 580.9  | 537.9  | 539.9  | 551.2  | 570.2  |
| 50°   | 4005.1 | 3633.8 | 2225.8 | 788.6  | 669.1  | 561.5  | 504.5  | 514.8  | 524.0  | 538.4  |
| 52.5° | 4685.5 | 4111.7 | 2108.9 | 768.1  | 673.2  | 564.0  | 476.3  | 498.4  | 505.1  | 517.4  |
| 55°   | 5316.1 | 4346.0 | 1813.1 | 739.9  | 674.3  | 579.9  | 452.2  | 485.1  | 497.4  | 502.0  |
| 57.5° | 5682.2 | 4265.5 | 1465.9 | 692.2  | 670.2  | 590.7  | 436.9  | 468.6  | 492.2  | 495.3  |
| 60°   | 5612.5 | 3983.0 | 1079.3 | 655.8  | 639.9  | 586.6  | 432.2  | 443.5  | 481.0  | 485.6  |
| 62.5° | 5075.1 | 3509.2 | 749.1  | 627.6  | 573.2  | 568.6  | 430.7  | 404.0  | 456.3  | 467.6  |
| 65°   | 4079.4 | 2762.7 | 529.2  | 540.4  | 502.5  | 529.7  | 422.5  | 363.0  | 426.6  | 442.0  |
| 67.5° | 2959.6 | 1869.5 | 382.0  | 437.9  | 455.3  | 466.6  | 404.0  | 333.3  | 392.8  | 413.3  |
| 70°   | 1899.2 | 1009.6 | 268.2  | 289.2  | 383.5  | 396.4  | 372.3  | 306.6  | 358.4  | 382.0  |
| 72.5° | 1350.1 | 596.3  | 192.8  | 202.5  | 308.2  | 330.2  | 327.6  | 276.9  | 318.4  | 347.1  |
| 75°   | 931.7  | 328.7  | 130.2  | 144.6  | 223.6  | 268.2  | 252.8  | 237.9  | 269.7  | 298.9  |
| 77.5° | 584.0  | 147.2  | 77.9   | 100.5  | 146.6  | 210.7  | 173.3  | 184.1  | 210.2  | 237.4  |
| 80°   | 325.1  | 56.9   | 43.6   | 66.7   | 80.0   | 153.3  | 95.9   | 118.4  | 154.8  | 174.3  |
| 82.5° | 70.8   | 7.2    | 19.5   | 28.7   | 31.3   | 89.2   | 50.8   | 68.7   | 97.4   | 95.9   |
| 85°   | 0.0    | 0.0    | 3.6    | 4.1    | 2.1    | 38.5   | 18.5   | 22.6   | 31.8   | 29.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1030.6 | 0°    | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 |
| 927.0  | 2.5°  | 922.9  | 897.8  | 879.4  | 870.1  | 862.4  | 869.6  | 873.7  | 873.7  | 891.2  | 901.4  |
| 854.2  | 5°    | 836.3  | 791.2  | 756.8  | 733.7  | 719.9  | 724.5  | 729.6  | 735.3  | 757.3  | 772.2  |
| 811.2  | 7.5°  | 776.3  | 707.1  | 654.8  | 622.5  | 605.6  | 608.1  | 611.7  | 616.3  | 637.9  | 652.7  |
| 817.3  | 10°   | 765.0  | 665.5  | 591.7  | 549.1  | 528.6  | 525.1  | 523.0  | 521.5  | 534.3  | 545.6  |
| 887.0  | 12.5° | 811.2  | 667.6  | 564.5  | 512.7  | 487.6  | 476.9  | 464.5  | 454.8  | 456.9  | 464.0  |
| 992.7  | 15°   | 893.7  | 693.7  | 555.8  | 493.8  | 462.5  | 444.5  | 430.2  | 418.4  | 415.8  | 418.4  |
| 1085.0 | 17.5° | 988.1  | 729.1  | 554.8  | 477.4  | 438.4  | 419.9  | 408.1  | 397.4  | 393.8  | 394.3  |
| 1136.8 | 20°   | 1050.6 | 757.3  | 551.7  | 458.9  | 415.3  | 398.9  | 388.7  | 377.9  | 374.3  | 375.3  |
| 1122.4 | 22.5° | 1056.8 | 772.2  | 547.1  | 438.4  | 392.2  | 378.4  | 368.2  | 358.4  | 357.9  | 357.9  |
| 1068.6 | 25°   | 1023.4 | 772.2  | 537.4  | 419.9  | 370.2  | 357.9  | 348.7  | 336.9  | 338.9  | 339.9  |
| 1007.5 | 27.5° | 971.7  | 753.7  | 518.9  | 405.1  | 351.2  | 338.4  | 329.2  | 318.4  | 321.0  | 322.5  |
| 950.6  | 30°   | 920.4  | 730.1  | 496.8  | 388.1  | 333.3  | 318.4  | 311.7  | 302.5  | 303.5  | 305.6  |
| 894.2  | 32.5° | 872.7  | 705.0  | 470.7  | 374.3  | 315.3  | 300.5  | 295.3  | 285.1  | 286.6  | 288.7  |
| 838.9  | 35°   | 825.5  | 677.3  | 439.9  | 357.9  | 298.9  | 284.1  | 280.0  | 268.2  | 269.2  | 272.3  |
| 783.5  | 37.5° | 774.8  | 648.1  | 414.8  | 341.5  | 283.0  | 267.7  | 263.6  | 251.2  | 252.3  | 255.9  |
| 726.0  | 40°   | 721.4  | 619.4  | 390.2  | 324.1  | 266.1  | 250.7  | 247.1  | 233.8  | 234.8  | 238.9  |
| 669.6  | 42.5° | 667.6  | 588.1  | 371.2  | 301.5  | 248.7  | 232.3  | 228.7  | 216.4  | 217.9  | 222.5  |
| 620.4  | 45°   | 617.9  | 550.7  | 358.9  | 276.4  | 232.3  | 213.8  | 210.2  | 198.9  | 202.0  | 207.1  |
| 578.9  | 47.5° | 575.3  | 512.2  | 353.8  | 255.3  | 214.8  | 194.8  | 191.8  | 182.5  | 187.7  | 193.3  |
| 543.5  | 50°   | 538.9  | 475.3  | 347.1  | 233.8  | 198.4  | 178.4  | 175.4  | 169.2  | 175.9  | 181.5  |
| 519.4  | 52.5° | 512.7  | 433.3  | 332.8  | 214.3  | 184.1  | 164.6  | 163.6  | 160.5  | 166.6  | 171.8  |
| 501.5  | 55°   | 490.2  | 389.7  | 309.7  | 197.4  | 171.3  | 152.8  | 153.8  | 152.3  | 157.4  | 161.5  |
| 490.7  | 57.5° | 469.7  | 351.7  | 280.5  | 184.1  | 157.4  | 142.5  | 145.6  | 143.6  | 146.1  | 148.7  |
| 479.4  | 60°   | 445.1  | 313.3  | 245.6  | 169.2  | 141.0  | 132.3  | 135.9  | 130.2  | 129.7  | 130.7  |
| 458.9  | 62.5° | 408.7  | 261.5  | 209.2  | 150.7  | 126.6  | 121.0  | 122.5  | 111.8  | 103.6  | 103.6  |
| 428.7  | 65°   | 357.9  | 210.2  | 175.4  | 130.2  | 110.2  | 105.6  | 104.6  | 89.2   | 77.9   | 76.9   |
| 395.8  | 67.5° | 298.9  | 172.8  | 145.6  | 109.7  | 91.8   | 88.7   | 89.7   | 78.4   | 67.2   | 66.1   |
| 363.0  | 70°   | 243.6  | 143.1  | 117.4  | 87.7   | 70.8   | 73.8   | 78.4   | 67.2   | 56.4   | 54.9   |
| 324.6  | 72.5° | 197.9  | 113.8  | 91.8   | 67.2   | 52.3   | 61.0   | 66.7   | 54.9   | 44.6   | 43.6   |
| 276.9  | 75°   | 152.8  | 83.6   | 65.6   | 45.6   | 37.9   | 47.2   | 52.3   | 40.0   | 31.8   | 30.3   |
| 214.3  | 77.5° | 102.0  | 51.8   | 36.9   | 28.7   | 22.6   | 32.3   | 34.9   | 21.0   | 18.5   | 17.9   |
| 155.9  | 80°   | 62.0   | 24.1   | 15.9   | 13.8   | 7.7    | 11.8   | 13.8   | 8.7    | 9.7    | 10.3   |
| 83.1   | 82.5° | 31.3   | 6.7    | 2.6    | 0.5    | 0.0    | 0.0    | 4.1    | 2.1    | 4.1    | 5.1    |
| 22.6   | 85°   | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 2.6    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1030.6 | 0°    | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 |
| 905.5  | 2.5°  | 934.2  | 955.8  | 976.3  | 1009.1 | 1042.9 | 1076.3 | 1110.1 | 1142.9 | 1154.7 | 1163.4 |
| 781.9  | 5°    | 826.5  | 867.1  | 914.2  | 979.3  | 1049.1 | 1120.9 | 1193.7 | 1260.3 | 1290.6 | 1311.1 |
| 665.5  | 7.5°  | 715.3  | 768.1  | 835.8  | 933.7  | 1042.9 | 1157.3 | 1271.6 | 1376.7 | 1425.4 | 1464.9 |
| 555.8  | 10°   | 605.0  | 662.5  | 748.1  | 859.9  | 1007.5 | 1171.6 | 1329.5 | 1474.1 | 1537.2 | 1586.9 |
| 476.9  | 12.5° | 508.1  | 562.0  | 651.7  | 775.3  | 952.2  | 1160.3 | 1362.9 | 1536.7 | 1611.0 | 1666.9 |
| 420.5  | 15°   | 439.9  | 477.9  | 557.4  | 690.7  | 886.5  | 1123.9 | 1364.9 | 1566.4 | 1648.0 | 1706.4 |
| 396.9  | 17.5° | 402.0  | 414.8  | 466.6  | 604.5  | 813.7  | 1076.3 | 1346.0 | 1576.7 | 1663.9 | 1718.2 |
| 375.8  | 20°   | 381.5  | 383.5  | 397.9  | 492.7  | 720.4  | 1031.6 | 1328.0 | 1586.9 | 1678.7 | 1724.4 |
| 361.0  | 22.5° | 365.1  | 365.1  | 368.7  | 403.0  | 599.9  | 978.3  | 1322.4 | 1604.9 | 1699.2 | 1727.4 |
| 344.1  | 25°   | 350.2  | 350.2  | 351.2  | 360.5  | 475.3  | 896.8  | 1318.8 | 1632.6 | 1727.4 | 1735.1 |
| 327.1  | 27.5° | 334.8  | 335.3  | 335.3  | 340.5  | 383.0  | 786.0  | 1303.4 | 1668.5 | 1761.3 | 1745.4 |
| 310.7  | 30°   | 319.4  | 320.5  | 320.5  | 324.1  | 338.9  | 656.3  | 1273.1 | 1711.5 | 1805.4 | 1758.7 |
| 294.3  | 32.5° | 304.1  | 305.1  | 305.1  | 308.2  | 318.9  | 524.0  | 1235.2 | 1751.0 | 1850.0 | 1764.4 |
| 278.4  | 35°   | 288.2  | 289.7  | 288.7  | 292.8  | 304.1  | 416.9  | 1187.0 | 1790.5 | 1898.2 | 1782.3 |
| 263.0  | 37.5° | 272.3  | 273.3  | 272.8  | 276.9  | 289.7  | 359.9  | 1131.1 | 1820.2 | 1963.8 | 1822.3 |
| 246.6  | 40°   | 256.4  | 255.9  | 255.9  | 260.5  | 274.3  | 343.5  | 1060.9 | 1867.4 | 2058.2 | 1892.5 |
| 230.2  | 42.5° | 240.0  | 240.0  | 238.9  | 244.1  | 261.0  | 331.2  | 993.7  | 1952.0 | 2195.6 | 2004.3 |
| 214.8  | 45°   | 225.1  | 224.6  | 222.5  | 227.1  | 248.2  | 309.7  | 970.1  | 2109.9 | 2398.6 | 2185.3 |
| 199.5  | 47.5° | 210.7  | 210.2  | 205.1  | 209.2  | 232.8  | 290.2  | 1058.3 | 2368.4 | 2680.1 | 2451.4 |
| 187.2  | 50°   | 197.9  | 198.4  | 188.7  | 192.3  | 217.4  | 275.3  | 1249.6 | 2703.7 | 3053.9 | 2809.8 |
| 176.9  | 52.5° | 186.1  | 186.1  | 173.3  | 175.4  | 198.4  | 262.0  | 1431.6 | 3067.2 | 3547.2 | 3309.8 |
| 166.1  | 55°   | 174.3  | 173.3  | 159.0  | 160.0  | 179.5  | 243.0  | 1458.8 | 3422.1 | 4219.9 | 4062.0 |
| 154.3  | 57.5° | 161.0  | 159.0  | 145.6  | 145.6  | 162.0  | 229.2  | 1264.4 | 3694.8 | 5054.6 | 5167.4 |
| 132.3  | 60°   | 144.6  | 143.1  | 134.3  | 131.8  | 148.2  | 241.5  | 892.2  | 3726.6 | 5593.0 | 6637.5 |
| 105.1  | 62.5° | 123.6  | 125.6  | 121.0  | 117.4  | 134.9  | 250.7  | 528.6  | 3470.8 | 5462.8 | 7105.1 |
| 81.5   | 65°   | 97.4   | 105.6  | 104.6  | 102.0  | 148.2  | 211.3  | 312.3  | 2979.6 | 5063.4 | 6727.7 |
| 71.3   | 67.5° | 83.1   | 88.7   | 87.2   | 87.2   | 155.4  | 160.5  | 196.4  | 2327.9 | 4513.7 | 6280.1 |
| 59.5   | 70°   | 70.8   | 76.4   | 70.8   | 70.8   | 117.4  | 97.4   | 135.9  | 1625.4 | 3920.4 | 5784.8 |
| 47.7   | 72.5° | 58.5   | 64.1   | 57.9   | 53.8   | 93.8   | 72.8   | 99.5   | 1015.7 | 3357.5 | 5269.0 |
| 33.8   | 75°   | 44.6   | 51.3   | 46.7   | 41.5   | 62.0   | 54.4   | 75.4   | 590.2  | 2781.6 | 4508.1 |
| 20.5   | 77.5° | 28.2   | 36.9   | 34.9   | 29.2   | 45.6   | 39.5   | 54.4   | 351.2  | 2146.4 | 3522.6 |
| 12.3   | 80°   | 17.4   | 19.0   | 19.5   | 18.5   | 26.1   | 26.7   | 36.9   | 200.0  | 1469.0 | 2455.0 |
| 7.7    | 82.5° | 11.3   | 11.3   | 8.7    | 9.7    | 12.8   | 15.4   | 21.0   | 75.4   | 863.5  | 1494.7 |
| 4.6    | 85°   | 8.2    | 7.2    | 4.6    | 4.6    | 6.2    | 7.7    | 8.2    | 23.1   | 350.2  | 590.2  |
| 2.1    | 87.5° | 4.1    | 3.6    | 1.5    | 2.1    | 3.1    | 2.6    | 2.1    | 1.0    | 88.2   | 188.7  |
| 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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| 285°   |       | 295°   | 305°   | 315°    | 325°   | 335°   | 345°   | 355°   | 360°   |
|--------|-------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1030.6 | 0°    | 1030.6 | 1030.6 | 1030.6  | 1030.6 | 1030.6 | 1030.6 | 1030.6 | 1030.6 |
| 1182.9 | 2.5°  | 1193.2 | 1209.1 | 1210.1  | 1210.1 | 1196.2 | 1195.7 | 1167.5 | 1164.4 |
| 1357.2 | 5°    | 1404.9 | 1415.2 | 1417.7  | 1412.6 | 1384.9 | 1364.4 | 1309.6 | 1297.8 |
| 1535.2 | 7.5°  | 1598.7 | 1619.2 | 1619.2  | 1606.9 | 1561.8 | 1519.8 | 1440.3 | 1410.6 |
| 1682.3 | 10°   | 1753.6 | 1777.2 | 1772.0  | 1746.9 | 1690.0 | 1632.1 | 1535.7 | 1496.7 |
| 1771.5 | 12.5° | 1829.0 | 1853.1 | 1839.7  | 1811.0 | 1755.6 | 1694.6 | 1593.1 | 1549.0 |
| 1797.2 | 15°   | 1827.4 | 1820.8 | 1806.9  | 1803.3 | 1776.7 | 1730.5 | 1635.7 | 1587.5 |
| 1781.3 | 17.5° | 1762.3 | 1705.9 | 1695.1  | 1731.0 | 1764.9 | 1753.6 | 1672.6 | 1627.5 |
| 1743.3 | 20°   | 1659.2 | 1560.8 | 1551.1  | 1619.8 | 1716.2 | 1765.4 | 1706.9 | 1665.4 |
| 1688.5 | 22.5° | 1550.5 | 1444.4 | 1421.8  | 1497.7 | 1642.8 | 1769.0 | 1750.5 | 1709.0 |
| 1628.0 | 25°   | 1447.5 | 1340.8 | 1318.3  | 1389.0 | 1561.3 | 1762.8 | 1797.7 | 1762.3 |
| 1570.0 | 27.5° | 1361.3 | 1258.3 | 1237.3  | 1308.0 | 1482.9 | 1745.4 | 1844.9 | 1819.7 |
| 1512.6 | 30°   | 1294.7 | 1199.3 | 1183.9  | 1252.1 | 1415.2 | 1723.8 | 1904.8 | 1891.0 |
| 1459.3 | 32.5° | 1255.7 | 1186.0 | 1191.6  | 1247.5 | 1378.8 | 1700.3 | 1962.3 | 1968.9 |
| 1433.1 | 35°   | 1294.2 | 1297.2 | 1346.5  | 1369.5 | 1412.6 | 1696.7 | 2040.2 | 2066.4 |
| 1464.4 | 37.5° | 1485.4 | 1592.1 | 1694.1  | 1675.1 | 1578.2 | 1738.2 | 2156.6 | 2205.3 |
| 1600.8 | 40°   | 1811.0 | 2030.0 | 2195.6  | 2123.3 | 1879.2 | 1865.4 | 2324.3 | 2397.1 |
| 1842.8 | 42.5° | 2208.9 | 2580.1 | 2852.9  | 2659.1 | 2267.4 | 2087.9 | 2563.7 | 2656.5 |
| 2135.6 | 45°   | 2628.8 | 3258.5 | 3688.2  | 3285.2 | 2681.1 | 2399.6 | 2926.2 | 2999.0 |
| 2409.9 | 47.5° | 3071.3 | 4083.0 | 4638.8  | 3979.4 | 3064.7 | 2754.5 | 3420.5 | 3437.4 |
| 2669.9 | 50°   | 3555.4 | 4987.0 | 5607.9  | 4673.2 | 3434.9 | 3161.1 | 4024.5 | 4005.1 |
| 2972.9 | 52.5° | 4016.3 | 5916.6 | 6556.5  | 5370.0 | 3760.0 | 3665.6 | 4725.5 | 4685.5 |
| 3387.2 | 55°   | 4456.3 | 6845.7 | 7510.7  | 6039.6 | 4066.6 | 4332.2 | 5558.2 | 5316.1 |
| 3984.5 | 57.5° | 4966.4 | 7680.9 | 8494.1  | 6712.3 | 4495.2 | 5197.7 | 6489.3 | 5682.2 |
| 5128.5 | 60°   | 5720.7 | 8630.0 | 9606.3  | 7634.3 | 5310.5 | 6107.3 | 6823.1 | 5612.5 |
| 6498.5 | 62.5° | 6683.6 | 9502.7 | 10414.9 | 8537.7 | 6129.4 | 6278.6 | 6331.4 | 5075.1 |
| 6219.1 | 65°   | 6870.8 | 9723.7 | 10460.5 | 8779.2 | 6023.7 | 5325.9 | 5169.0 | 4079.4 |
| 5555.1 | 67.5° | 6374.4 | 9324.3 | 9822.7  | 8329.5 | 5328.4 | 4115.8 | 3878.9 | 2959.6 |
| 5119.2 | 70°   | 5817.6 | 8562.8 | 8711.0  | 7565.0 | 4686.5 | 3027.2 | 2619.6 | 1899.2 |
| 4820.8 | 72.5° | 5246.9 | 7547.1 | 7240.5  | 6569.8 | 4118.9 | 2204.3 | 1889.5 | 1350.1 |
| 4395.8 | 75°   | 4569.1 | 6211.4 | 5703.3  | 5458.7 | 3410.3 | 1730.0 | 1367.0 | 931.7  |
| 3781.0 | 77.5° | 3658.9 | 4372.2 | 4236.3  | 4231.2 | 2562.7 | 1263.9 | 912.2  | 584.0  |
| 2953.9 | 80°   | 2581.2 | 2837.5 | 2768.3  | 3186.7 | 1719.2 | 916.8  | 549.1  | 325.1  |
| 2056.1 | 82.5° | 1249.6 | 1569.0 | 1610.5  | 1897.7 | 836.3  | 539.4  | 126.6  | 70.8   |
| 804.0  | 85°   | 489.2  | 756.8  | 638.4   | 720.4  | 234.8  | 150.2  | 3.1    | 0.0    |
| 132.3  | 87.5° | 54.9   | 87.7   | 80.5    | 63.6   | 28.7   | 6.2    | 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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