

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: P450171

Luminaire Tested: **GLAN-SA1A-722-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-722-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2798 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

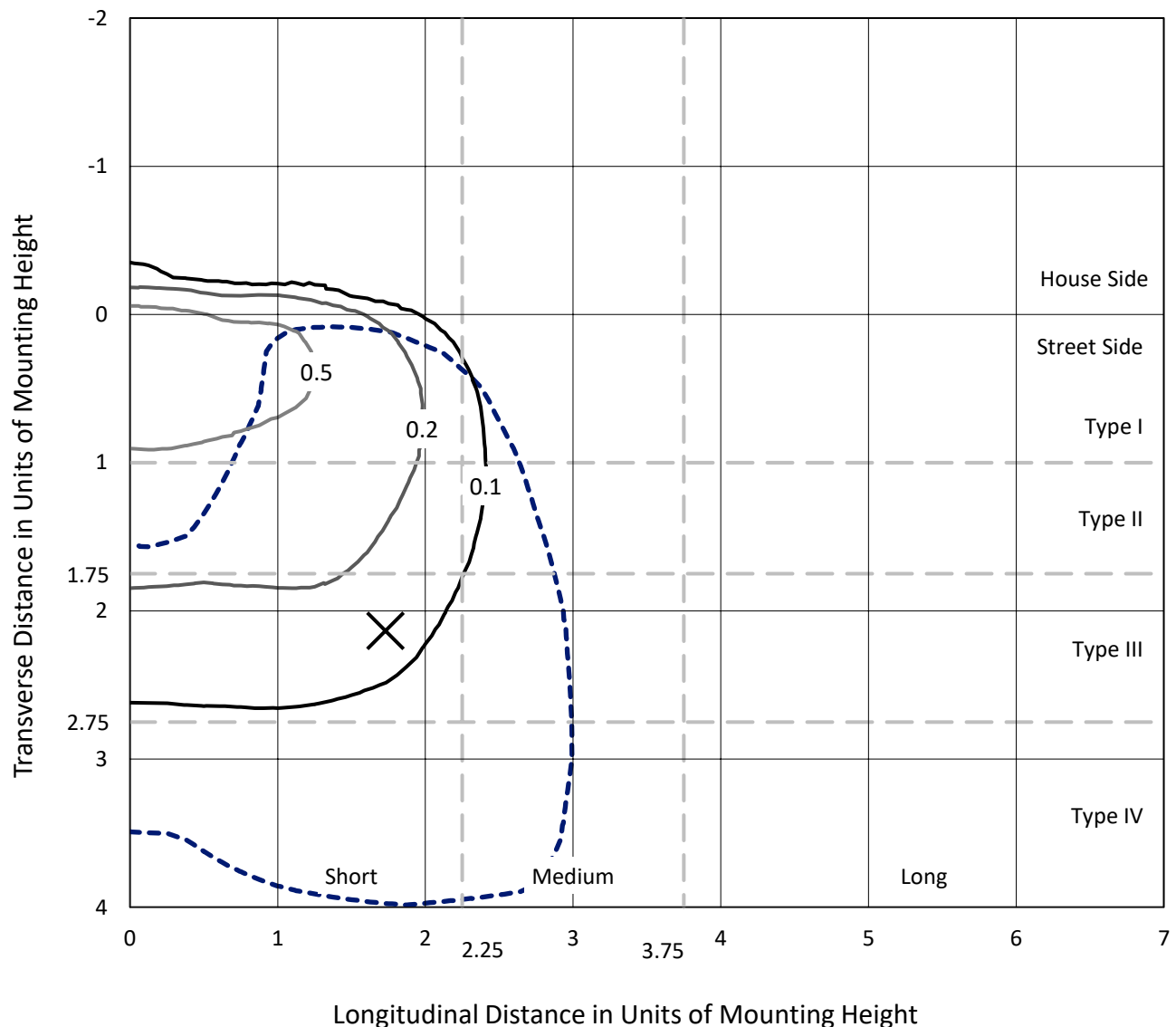
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

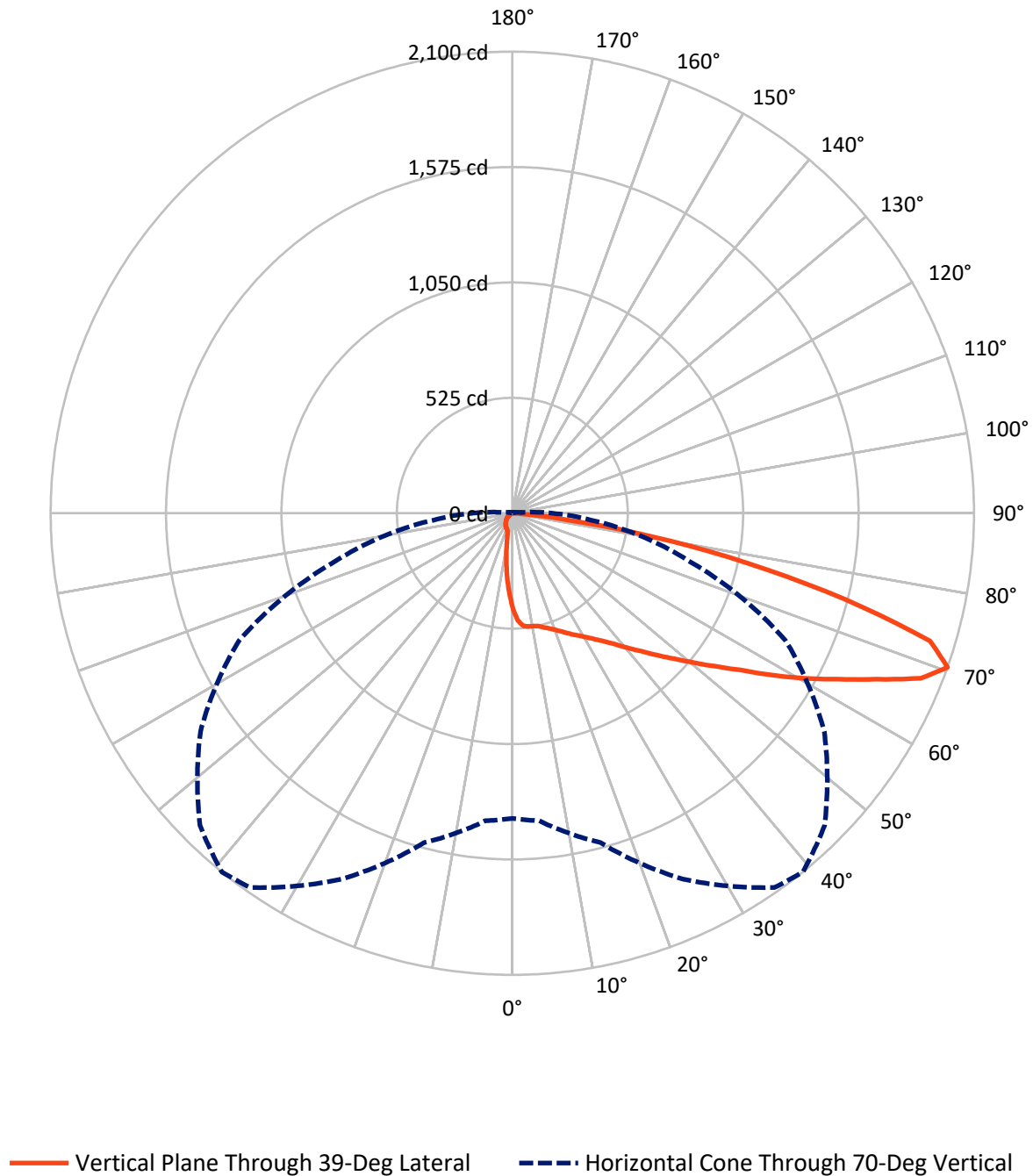
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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    | 182.5    | 0.0    | 182.5  |
|                    | % Fixture | 6.5      | 0.0    | 6.5    |
| <b>Street Side</b> | Lumens    | 2615.6   | 0.0    | 2615.6 |
|                    | % Fixture | 93.5     | 0.0    | 93.5   |
| <b>Total</b>       | Lumens    | 2798.0   | 0.0    | 2798.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 1.3       |
| 10°-20°   | 96.8   | 3.5       |
| 20°-30°   | 162.1  | 5.8       |
| 30°-40°   | 251.4  | 9.0       |
| 40°-50°   | 398.4  | 14.2      |
| 50°-60°   | 584.0  | 20.9      |
| 60°-70°   | 748.6  | 26.8      |
| 70°-80°   | 470.4  | 16.8      |
| 80°-90°   | 49.0   | 1.8       |
| 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°    | 2798.0 | 100.0     |
| 0°-180°   | 2798.0 | 100.0     |

**Coefficient of Utilization**



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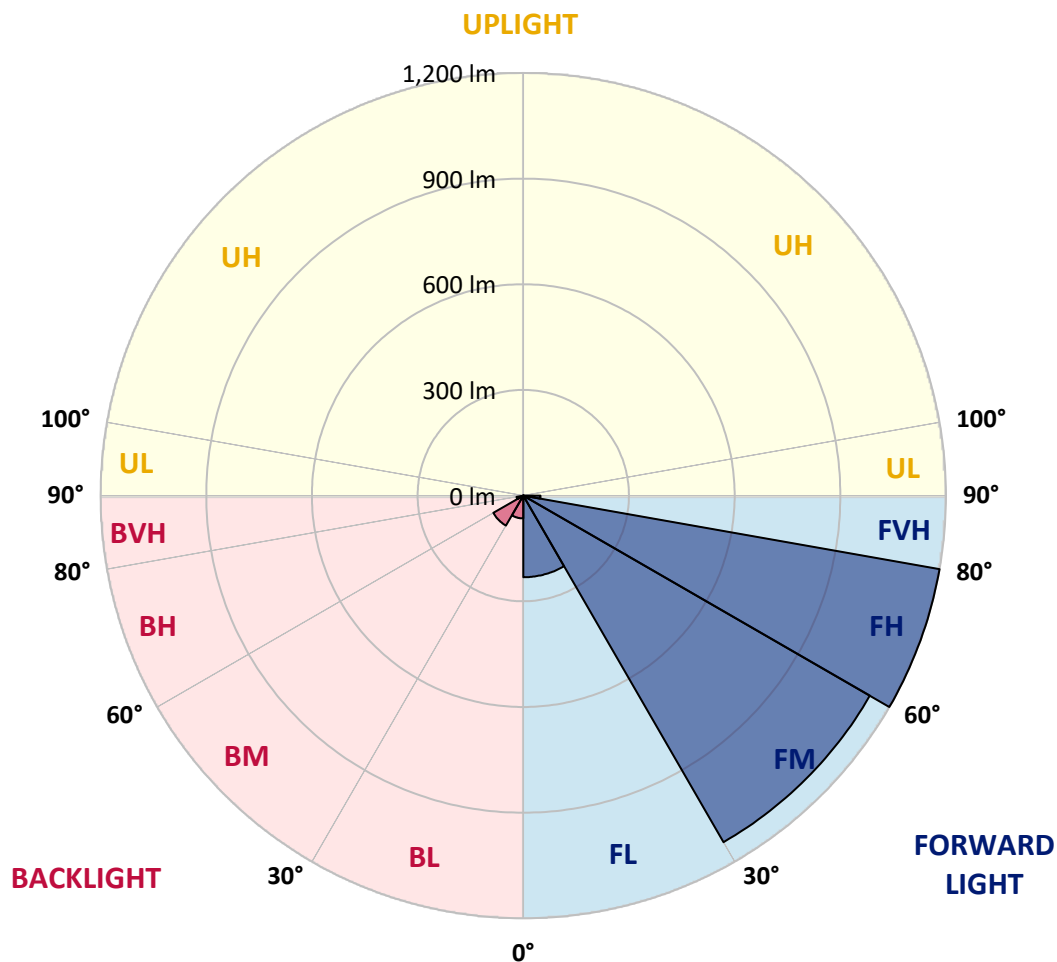
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 231.5  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 1135.7 | 40.6      |                         |      |         |
| FH   | (60°-80°)   | 1199.7 | 42.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 48.6   | 1.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 64.6   | 2.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 98.2   | 3.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 19.3   | 0.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.4    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  | 436.6  |
| 2.5°  | 504.5  | 502.8  | 500.5  | 497.9  | 490.4  | 489.0  | 484.5  | 474.9  | 463.5  | 454.1  | 441.1  |
| 5°    | 528.3  | 529.3  | 527.6  | 522.9  | 517.4  | 514.2  | 508.6  | 493.7  | 478.9  | 459.9  | 438.7  |
| 7.5°  | 533.8  | 535.7  | 533.6  | 529.1  | 523.8  | 520.4  | 515.9  | 503.1  | 485.8  | 464.2  | 435.1  |
| 10°   | 533.2  | 535.5  | 534.2  | 530.0  | 525.7  | 522.5  | 517.6  | 507.5  | 493.6  | 470.8  | 436.2  |
| 12.5° | 532.3  | 535.3  | 535.1  | 533.0  | 529.5  | 527.0  | 524.0  | 515.0  | 502.0  | 480.4  | 442.4  |
| 15°   | 529.7  | 533.4  | 536.8  | 538.5  | 538.7  | 538.7  | 534.9  | 525.3  | 512.9  | 493.0  | 450.5  |
| 17.5° | 530.8  | 535.1  | 543.6  | 548.5  | 551.8  | 551.5  | 547.5  | 537.2  | 523.4  | 506.0  | 459.0  |
| 20°   | 537.7  | 543.6  | 555.4  | 565.2  | 568.6  | 567.4  | 562.2  | 550.1  | 534.5  | 517.1  | 467.2  |
| 22.5° | 554.8  | 560.1  | 575.0  | 586.4  | 588.9  | 585.9  | 578.4  | 562.0  | 547.9  | 529.1  | 477.2  |
| 25°   | 580.4  | 586.6  | 600.3  | 609.0  | 609.0  | 607.3  | 596.8  | 577.6  | 562.9  | 545.8  | 490.2  |
| 27.5° | 611.4  | 616.7  | 630.2  | 638.0  | 633.4  | 628.6  | 618.0  | 594.9  | 580.8  | 566.9  | 505.8  |
| 30°   | 642.8  | 646.2  | 660.5  | 663.9  | 659.2  | 653.0  | 641.7  | 618.6  | 606.2  | 595.5  | 528.3  |
| 32.5° | 672.5  | 679.9  | 691.7  | 691.0  | 684.6  | 681.6  | 671.2  | 646.6  | 639.6  | 638.5  | 559.9  |
| 35°   | 702.3  | 707.9  | 718.4  | 721.1  | 715.4  | 714.9  | 707.3  | 689.1  | 689.3  | 696.6  | 609.2  |
| 37.5° | 727.8  | 732.9  | 745.3  | 751.1  | 752.3  | 755.1  | 752.1  | 740.0  | 757.2  | 777.3  | 674.4  |
| 40°   | 749.3  | 756.4  | 772.2  | 782.4  | 794.0  | 804.4  | 804.9  | 807.5  | 842.0  | 876.6  | 759.6  |
| 42.5° | 766.0  | 776.0  | 798.9  | 817.7  | 844.4  | 857.6  | 868.1  | 882.6  | 940.5  | 992.2  | 860.0  |
| 45°   | 787.8  | 799.3  | 827.9  | 857.4  | 899.1  | 920.7  | 935.4  | 974.1  | 1056.3 | 1126.8 | 963.0  |
| 47.5° | 823.9  | 829.9  | 859.1  | 902.1  | 957.0  | 987.9  | 1016.4 | 1075.1 | 1180.6 | 1243.8 | 1048.8 |
| 50°   | 870.3  | 874.3  | 896.3  | 956.1  | 1027.2 | 1067.8 | 1119.9 | 1188.9 | 1309.6 | 1340.8 | 1097.3 |
| 52.5° | 921.7  | 923.0  | 939.5  | 1015.5 | 1105.7 | 1156.9 | 1215.2 | 1300.4 | 1414.7 | 1410.0 | 1129.4 |
| 55°   | 981.3  | 979.4  | 993.5  | 1080.0 | 1198.8 | 1257.3 | 1325.2 | 1414.5 | 1505.9 | 1459.0 | 1147.9 |
| 57.5° | 1049.5 | 1044.5 | 1058.2 | 1165.5 | 1318.0 | 1388.0 | 1457.0 | 1513.0 | 1576.6 | 1500.2 | 1156.7 |
| 60°   | 1121.0 | 1110.8 | 1127.2 | 1261.6 | 1458.5 | 1524.8 | 1582.2 | 1597.2 | 1651.0 | 1532.9 | 1141.5 |
| 62.5° | 1177.9 | 1178.1 | 1208.6 | 1363.9 | 1602.9 | 1661.0 | 1691.4 | 1705.0 | 1715.1 | 1525.8 | 1061.4 |
| 65°   | 1266.9 | 1269.9 | 1318.6 | 1505.9 | 1770.0 | 1820.4 | 1841.3 | 1797.3 | 1717.9 | 1437.0 | 941.0  |
| 67.5° | 1358.6 | 1368.2 | 1457.3 | 1701.4 | 1963.1 | 2003.7 | 1976.8 | 1815.2 | 1641.2 | 1234.5 | 713.5  |
| 70°   | 1388.5 | 1404.3 | 1551.2 | 1836.0 | 2078.9 | 2100.0 | 2009.0 | 1731.9 | 1372.0 | 825.4  | 359.1  |
| 72.5° | 1272.3 | 1297.9 | 1497.2 | 1786.9 | 2005.1 | 1986.8 | 1797.5 | 1452.5 | 872.2  | 313.4  | 109.6  |
| 75°   | 897.2  | 908.5  | 1244.3 | 1482.4 | 1612.7 | 1560.9 | 1367.3 | 936.3  | 358.7  | 88.0   | 37.6   |
| 77.5° | 463.3  | 457.8  | 740.0  | 983.5  | 1150.1 | 1096.5 | 895.4  | 484.7  | 135.9  | 36.7   | 23.3   |
| 80°   | 239.5  | 243.5  | 320.2  | 515.4  | 702.1  | 646.0  | 477.4  | 224.7  | 72.4   | 20.3   | 17.9   |
| 82.5° | 134.2  | 126.0  | 184.1  | 225.1  | 328.3  | 257.4  | 183.1  | 159.1  | 31.6   | 12.2   | 16.9   |
| 85°   | 24.4   | 25.6   | 101.0  | 121.6  | 113.9  | 72.4   | 59.0   | 106.2  | 9.2    | 6.8    | 11.8   |
| 87.5° | 0.4    | 0.4    | 19.6   | 35.0   | 22.2   | 10.2   | 18.6   | 15.2   | 1.9    | 2.6    | 2.1    |
| 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°    | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 | 436.6 |
| 2.5°  | 434.5 | 427.4 | 414.0 | 400.9 | 384.1 | 370.4 | 361.2 | 351.6 | 341.8 | 342.6 | 344.8 |
| 5°    | 427.0 | 414.6 | 388.3 | 360.4 | 333.7 | 309.7 | 286.0 | 264.7 | 256.1 | 248.2 | 248.6 |
| 7.5°  | 419.5 | 402.0 | 363.4 | 319.8 | 279.4 | 238.4 | 208.7 | 184.3 | 171.3 | 161.5 | 158.7 |
| 10°   | 416.1 | 393.0 | 340.7 | 280.7 | 223.4 | 178.6 | 140.5 | 120.5 | 105.1 | 100.2 | 101.5 |
| 12.5° | 417.6 | 388.5 | 320.2 | 245.4 | 177.1 | 124.5 | 97.8  | 87.6  | 84.2  | 83.7  | 83.3  |
| 15°   | 420.4 | 385.3 | 300.1 | 206.3 | 130.1 | 92.5  | 82.2  | 80.3  | 79.9  | 79.5  | 79.7  |
| 17.5° | 424.2 | 382.4 | 278.6 | 169.6 | 99.8  | 80.8  | 77.8  | 76.9  | 76.7  | 76.7  | 76.7  |
| 20°   | 427.9 | 379.2 | 254.8 | 136.9 | 83.3  | 76.3  | 74.5  | 73.9  | 73.7  | 73.7  | 73.5  |
| 22.5° | 432.3 | 376.4 | 230.5 | 107.5 | 76.7  | 73.1  | 71.4  | 71.1  | 70.9  | 70.7  | 70.7  |
| 25°   | 438.5 | 372.8 | 204.8 | 88.0  | 72.6  | 70.1  | 68.4  | 68.1  | 67.9  | 67.1  | 67.3  |
| 27.5° | 446.7 | 370.2 | 178.2 | 76.0  | 68.8  | 66.4  | 65.2  | 64.7  | 64.3  | 63.7  | 63.9  |
| 30°   | 458.0 | 368.0 | 150.0 | 69.4  | 64.5  | 62.4  | 61.3  | 60.9  | 60.5  | 60.0  | 60.0  |
| 32.5° | 477.6 | 368.9 | 120.3 | 64.1  | 60.5  | 58.1  | 57.0  | 56.6  | 56.2  | 55.7  | 55.7  |
| 35°   | 506.9 | 374.3 | 96.3  | 59.6  | 55.8  | 53.4  | 52.3  | 52.3  | 51.7  | 51.0  | 50.8  |
| 37.5° | 554.8 | 388.3 | 77.3  | 55.3  | 51.3  | 49.1  | 47.8  | 47.4  | 46.8  | 45.7  | 45.5  |
| 40°   | 611.4 | 409.9 | 65.1  | 51.0  | 47.2  | 44.9  | 43.8  | 42.7  | 41.2  | 40.0  | 39.9  |
| 42.5° | 682.5 | 432.1 | 56.4  | 46.6  | 43.2  | 41.2  | 39.9  | 38.0  | 35.7  | 34.2  | 34.0  |
| 45°   | 756.6 | 452.4 | 50.6  | 42.7  | 39.5  | 37.8  | 36.3  | 33.3  | 30.5  | 28.6  | 28.4  |
| 47.5° | 811.9 | 456.1 | 45.9  | 38.9  | 36.3  | 34.6  | 32.5  | 28.8  | 25.0  | 23.3  | 22.8  |
| 50°   | 838.0 | 437.9 | 41.0  | 35.2  | 33.1  | 31.2  | 28.6  | 24.3  | 20.1  | 18.0  | 17.7  |
| 52.5° | 847.2 | 406.3 | 37.0  | 31.8  | 29.9  | 27.6  | 24.4  | 19.6  | 15.8  | 13.7  | 13.5  |
| 55°   | 843.5 | 366.5 | 33.5  | 28.6  | 26.1  | 23.5  | 20.3  | 15.6  | 11.7  | 10.0  | 9.6   |
| 57.5° | 823.7 | 315.7 | 29.9  | 25.4  | 22.4  | 19.7  | 16.2  | 11.7  | 7.9   | 6.4   | 6.2   |
| 60°   | 770.5 | 246.5 | 26.3  | 21.8  | 19.0  | 16.2  | 12.8  | 8.3   | 4.9   | 3.6   | 3.6   |
| 62.5° | 680.6 | 182.9 | 22.9  | 18.2  | 16.0  | 13.0  | 9.0   | 5.3   | 2.6   | 1.9   | 1.7   |
| 65°   | 568.8 | 135.0 | 19.2  | 15.4  | 13.3  | 10.2  | 6.4   | 3.2   | 1.3   | 0.6   | 0.4   |
| 67.5° | 396.9 | 83.3  | 16.0  | 12.6  | 10.9  | 7.3   | 3.9   | 1.3   | 0.6   | 0.0   | 0.0   |
| 70°   | 180.3 | 39.7  | 12.2  | 9.6   | 8.3   | 5.3   | 2.1   | 0.8   | 0.4   | 0.0   | 0.0   |
| 72.5° | 56.0  | 20.9  | 8.6   | 7.0   | 5.6   | 3.4   | 1.1   | 0.6   | 0.4   | 0.0   | 0.0   |
| 75°   | 25.9  | 13.3  | 5.5   | 3.8   | 3.2   | 1.7   | 0.8   | 0.4   | 0.2   | 0.0   | 0.0   |
| 77.5° | 19.4  | 10.3  | 3.2   | 2.1   | 1.7   | 1.1   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   |
| 80°   | 16.9  | 5.3   | 1.9   | 1.3   | 0.9   | 0.8   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   |
| 82.5° | 15.2  | 2.6   | 1.1   | 0.8   | 0.6   | 0.4   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   |
| 85°   | 8.3   | 1.5   | 0.8   | 0.6   | 0.4   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.5   | 0.8   | 0.6   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 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   | 0.0   |

(END OF REPORT)