

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: P450386

Luminaire Tested: **GLAN-SA1A-830-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-830-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3646 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

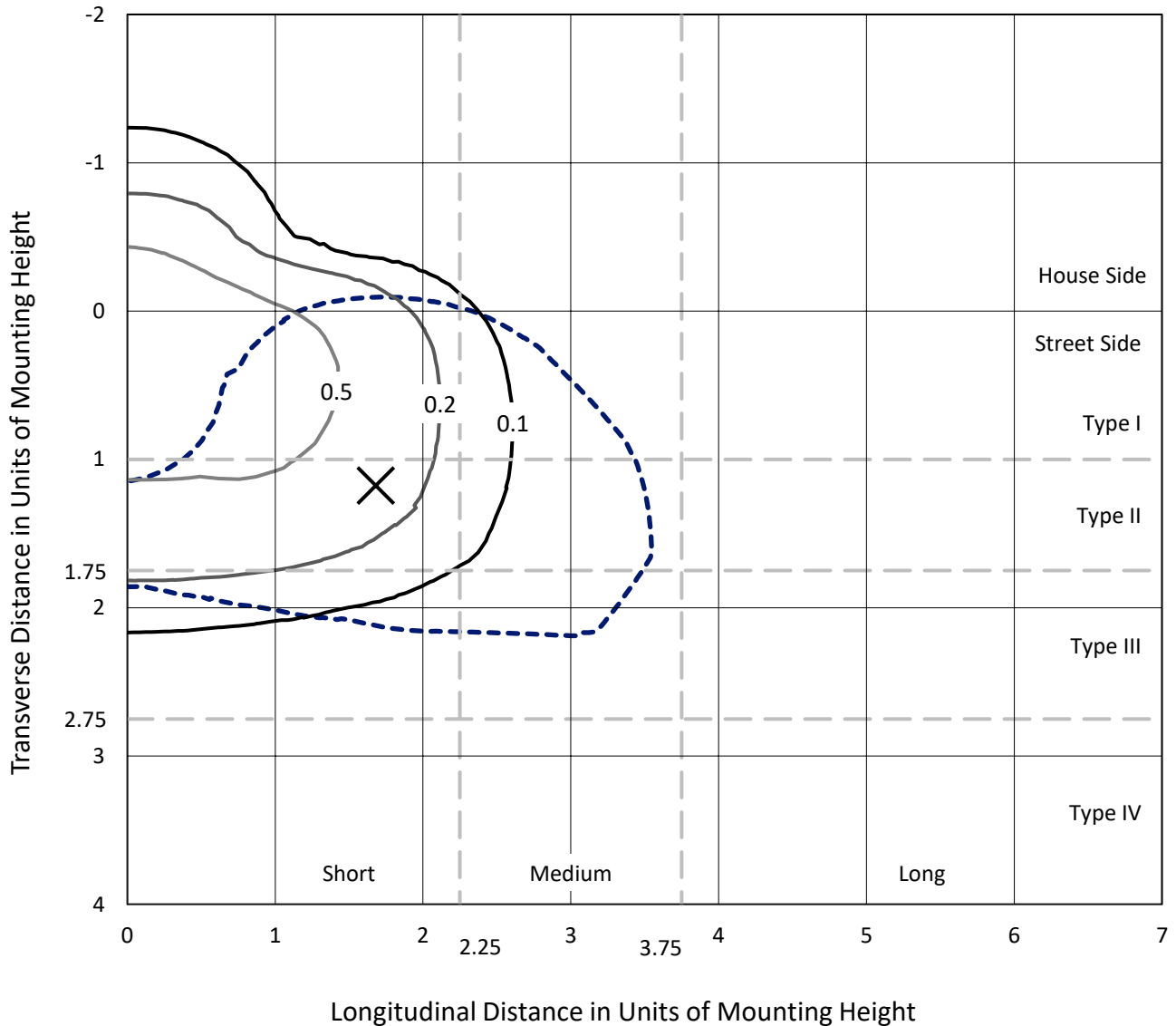
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

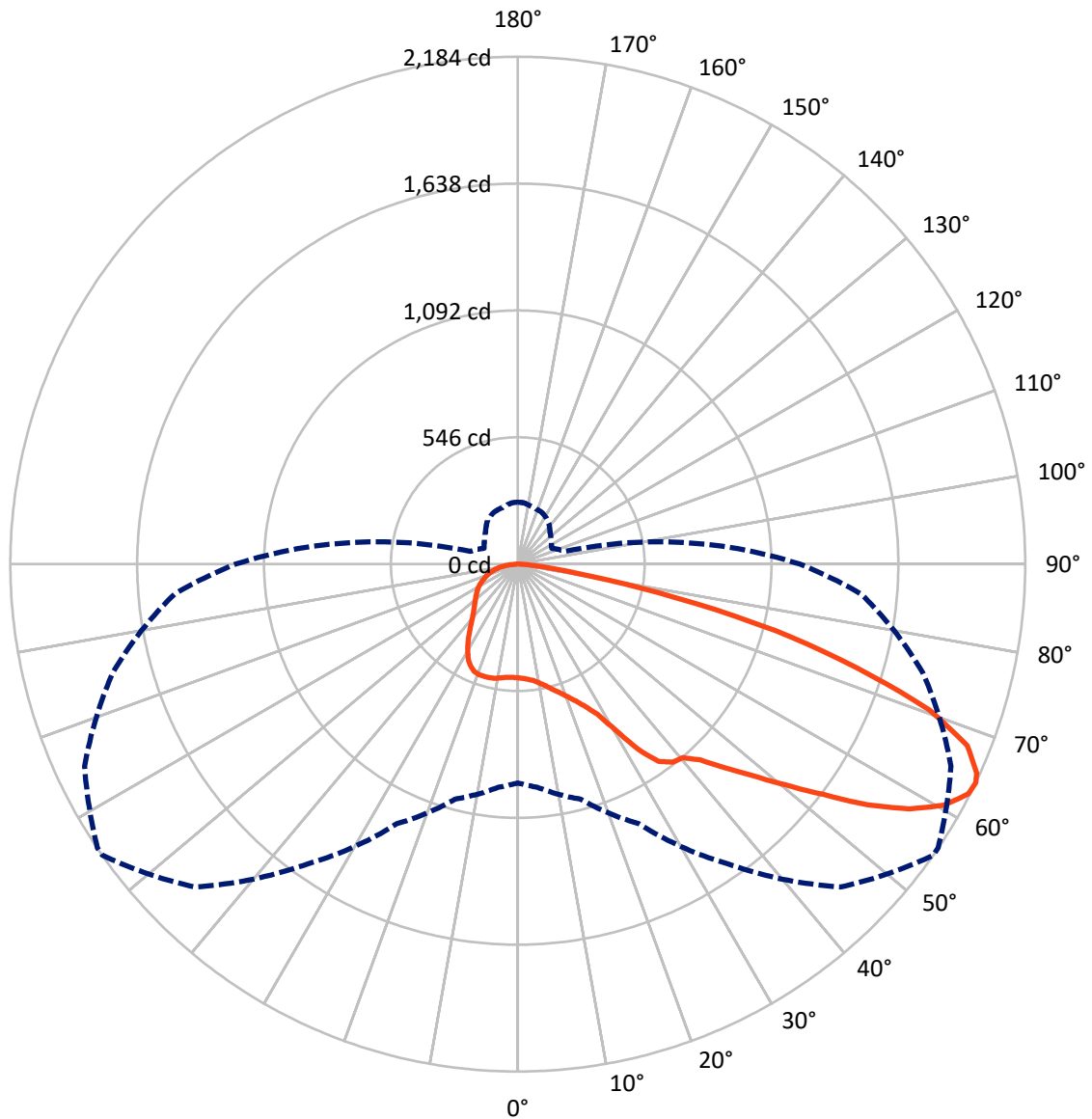
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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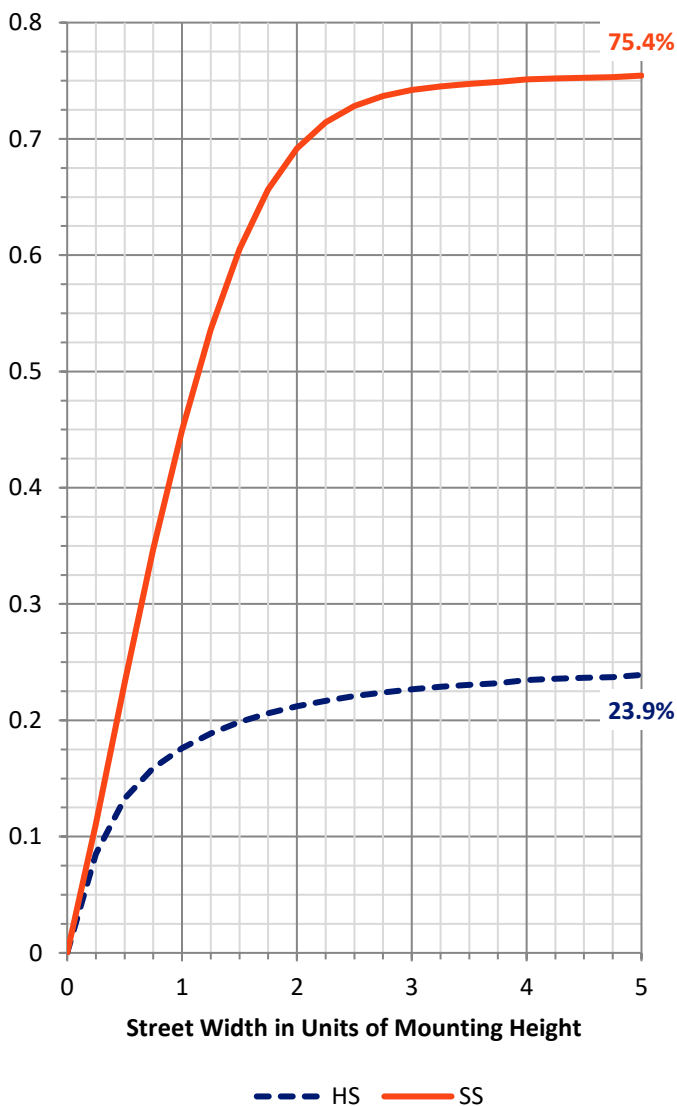
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 885.7    | 0.0    | 885.7  |
|                    | % Fixture | 24.3     | 0.0    | 24.3   |
| <b>Street Side</b> | Lumens    | 2760.3   | 0.0    | 2760.3 |
|                    | % Fixture | 75.7     | 0.0    | 75.7   |
| <b>Total</b>       | Lumens    | 3646.0   | 0.0    | 3646.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.6   | 1.3       |
| 10°-20°   | 150.1  | 4.1       |
| 20°-30°   | 267.3  | 7.3       |
| 30°-40°   | 411.3  | 11.3      |
| 40°-50°   | 583.0  | 16.0      |
| 50°-60°   | 843.9  | 23.1      |
| 60°-70°   | 873.3  | 24.0      |
| 70°-80°   | 409.0  | 11.2      |
| 80°-90°   | 60.5   | 1.7       |
| 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°    | 3646.0 | 100.0     |
| 0°-180°   | 3646.0 | 100.0     |



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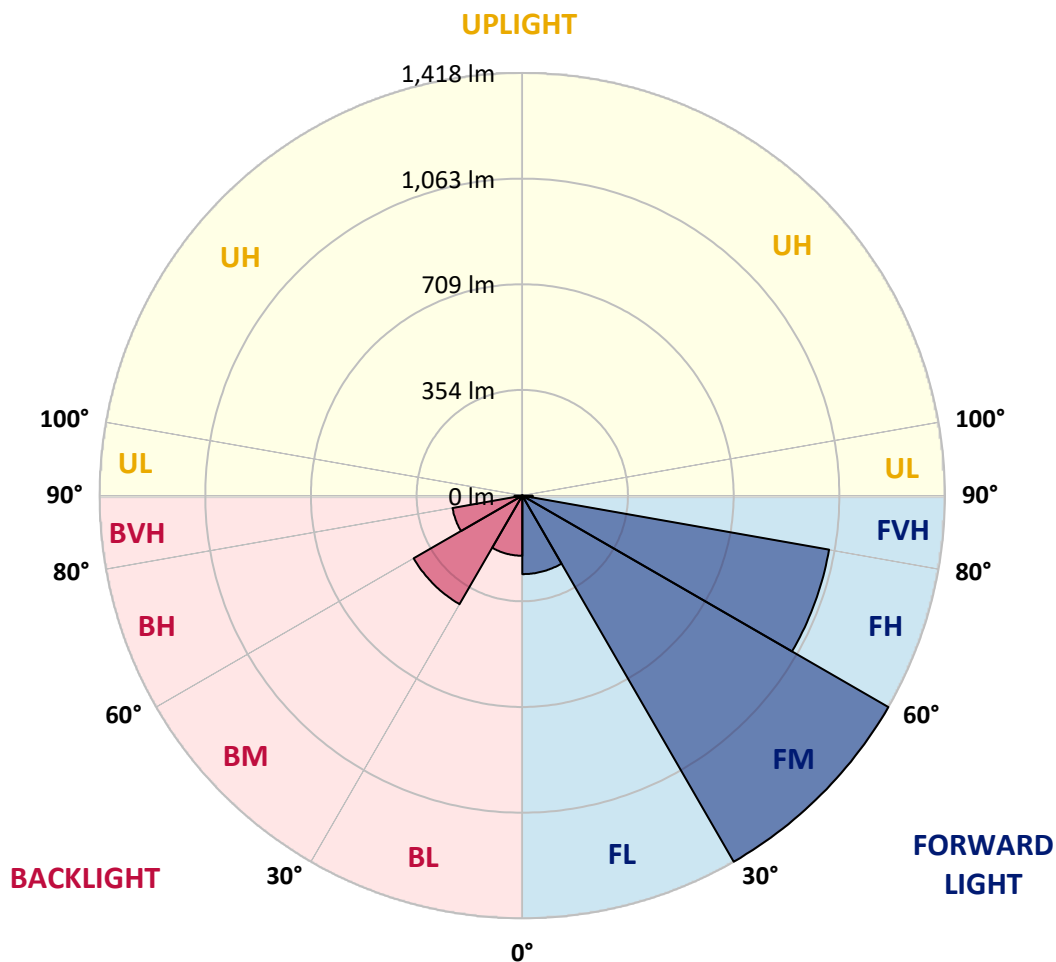
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 263.3  | 7.2       |                         |      |         |
| FM (30°-60°)   | 1417.7 | 38.9      |                         |      |         |
| FH (60°-80°)   | 1044.7 | 28.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 34.7   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 201.7  | 5.5       | B1/500                  |      |         |
| BM (30°-60°)   | 420.5  | 11.5      | B1/1000                 |      |         |
| BH (60°-80°)   | 237.6  | 6.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 25.9   | 0.7       |                         |      | 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°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  | 489.2  |
| 2.5°  | 494.7  | 494.5  | 495.1  | 494.5  | 494.9  | 493.5  | 492.8  | 493.2  | 492.6  | 491.6  | 489.8  |
| 5°    | 500.8  | 500.6  | 500.8  | 500.0  | 500.4  | 499.5  | 498.1  | 498.5  | 497.5  | 495.3  | 492.6  |
| 7.5°  | 511.1  | 510.3  | 510.3  | 510.1  | 509.3  | 508.1  | 507.1  | 506.7  | 505.6  | 502.8  | 498.7  |
| 10°   | 524.5  | 524.5  | 524.7  | 523.1  | 524.1  | 521.9  | 520.9  | 520.7  | 517.2  | 513.6  | 507.9  |
| 12.5° | 542.2  | 543.2  | 542.6  | 541.8  | 541.4  | 540.6  | 537.1  | 538.0  | 534.1  | 527.8  | 520.9  |
| 15°   | 564.2  | 565.8  | 564.8  | 564.4  | 563.4  | 560.3  | 558.9  | 558.3  | 553.2  | 544.1  | 534.9  |
| 17.5° | 593.2  | 591.2  | 590.4  | 589.4  | 585.1  | 582.9  | 580.4  | 580.0  | 575.6  | 564.8  | 550.6  |
| 20°   | 618.6  | 621.5  | 619.9  | 618.8  | 614.6  | 610.3  | 608.5  | 607.9  | 604.0  | 592.2  | 569.5  |
| 22.5° | 648.9  | 649.5  | 650.1  | 647.7  | 645.7  | 642.4  | 639.2  | 638.2  | 636.7  | 624.5  | 596.7  |
| 25°   | 681.2  | 683.7  | 681.6  | 679.2  | 676.8  | 676.6  | 679.6  | 679.2  | 678.6  | 666.8  | 632.9  |
| 27.5° | 733.9  | 736.1  | 736.7  | 734.1  | 724.7  | 725.5  | 732.5  | 734.7  | 744.0  | 724.5  | 679.4  |
| 30°   | 763.5  | 765.8  | 770.9  | 780.8  | 795.7  | 808.7  | 825.3  | 830.4  | 839.4  | 802.6  | 734.7  |
| 32.5° | 781.8  | 782.7  | 791.8  | 810.3  | 854.8  | 903.4  | 948.7  | 950.5  | 956.2  | 904.6  | 785.3  |
| 35°   | 810.7  | 811.3  | 818.6  | 838.9  | 891.2  | 972.1  | 1042.2 | 1044.4 | 1039.7 | 936.3  | 808.9  |
| 37.5° | 846.3  | 847.9  | 852.6  | 869.4  | 931.8  | 1029.6 | 1081.0 | 1079.4 | 1037.9 | 961.5  | 850.5  |
| 40°   | 898.1  | 898.1  | 892.6  | 915.4  | 974.7  | 1062.5 | 1094.6 | 1091.8 | 1080.8 | 1034.5 | 913.9  |
| 42.5° | 943.8  | 943.0  | 956.0  | 971.5  | 1028.4 | 1113.3 | 1151.7 | 1156.4 | 1174.5 | 1126.1 | 986.1  |
| 45°   | 1003.4 | 1007.0 | 1014.3 | 1042.4 | 1119.6 | 1200.1 | 1249.7 | 1254.2 | 1279.8 | 1234.0 | 1070.4 |
| 47.5° | 1063.5 | 1064.7 | 1087.7 | 1125.1 | 1232.6 | 1317.8 | 1358.4 | 1365.7 | 1389.1 | 1360.2 | 1161.3 |
| 50°   | 1106.2 | 1117.8 | 1154.6 | 1213.5 | 1349.1 | 1461.2 | 1493.0 | 1501.7 | 1542.9 | 1497.6 | 1267.2 |
| 52.5° | 1151.3 | 1162.7 | 1207.6 | 1297.4 | 1482.8 | 1608.0 | 1647.0 | 1652.9 | 1695.8 | 1636.6 | 1375.5 |
| 55°   | 1189.9 | 1200.5 | 1251.5 | 1371.8 | 1589.3 | 1757.8 | 1828.5 | 1821.6 | 1842.1 | 1743.7 | 1459.0 |
| 57.5° | 1196.2 | 1204.8 | 1269.0 | 1419.4 | 1669.4 | 1886.2 | 1987.6 | 1991.7 | 1967.9 | 1823.8 | 1527.9 |
| 60°   | 1147.5 | 1164.9 | 1238.7 | 1414.3 | 1705.3 | 1975.6 | 2106.3 | 2109.2 | 2041.7 | 1864.9 | 1555.3 |
| 62.5° | 1061.1 | 1059.3 | 1148.5 | 1332.6 | 1654.9 | 1996.0 | 2176.2 | 2173.2 | 2070.5 | 1845.2 | 1528.7 |
| 64°   | 941.8  | 963.7  | 1047.1 | 1232.2 | 1573.6 | 1964.7 | 2183.5 | 2181.9 | 2056.7 | 1804.1 | 1483.4 |
| 65°   | 869.0  | 867.8  | 950.1  | 1150.1 | 1492.8 | 1917.5 | 2170.5 | 2168.3 | 2027.9 | 1767.3 | 1448.2 |
| 67.5° | 627.4  | 630.2  | 711.5  | 887.5  | 1213.5 | 1733.2 | 2085.8 | 2077.5 | 1914.1 | 1645.4 | 1314.5 |
| 70°   | 380.0  | 381.7  | 445.5  | 588.8  | 871.1  | 1401.1 | 1880.1 | 1880.5 | 1739.9 | 1463.3 | 1118.8 |
| 72.5° | 200.2  | 204.5  | 230.1  | 334.3  | 529.0  | 983.0  | 1525.3 | 1561.4 | 1493.8 | 1248.9 | 883.9  |
| 75°   | 111.4  | 112.0  | 130.1  | 164.8  | 269.9  | 550.2  | 1146.4 | 1156.8 | 1182.6 | 1005.2 | 653.6  |
| 77.5° | 85.0   | 86.2   | 91.9   | 106.5  | 146.9  | 255.1  | 693.8  | 745.9  | 833.5  | 708.7  | 372.9  |
| 80°   | 68.9   | 70.1   | 75.0   | 83.7   | 97.8   | 120.9  | 322.3  | 350.4  | 446.1  | 314.6  | 145.5  |
| 82.5° | 53.7   | 52.8   | 59.1   | 64.8   | 71.1   | 71.5   | 132.3  | 146.3  | 181.7  | 135.4  | 63.0   |
| 85°   | 39.8   | 39.8   | 44.9   | 43.7   | 45.9   | 41.9   | 58.3   | 64.4   | 72.8   | 57.5   | 29.3   |
| 87.5° | 15.9   | 17.5   | 29.5   | 26.4   | 20.5   | 16.5   | 21.5   | 22.8   | 25.2   | 22.6   | 12.2   |
| 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°    | 489.2  | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 | 489.2 |
| 2.5°  | 490.0  | 490.6 | 489.2 | 488.2 | 487.8 | 487.2 | 486.5 | 486.7 | 487.6 | 488.4 | 488.2 |
| 5°    | 492.4  | 492.6 | 490.2 | 489.0 | 488.2 | 487.4 | 487.4 | 488.0 | 489.6 | 490.8 | 490.8 |
| 7.5°  | 498.5  | 498.5 | 495.1 | 492.8 | 491.6 | 490.2 | 489.8 | 490.0 | 491.2 | 492.8 | 493.0 |
| 10°   | 508.1  | 507.3 | 502.8 | 499.3 | 497.1 | 493.7 | 490.6 | 489.0 | 489.6 | 490.6 | 490.6 |
| 12.5° | 519.7  | 517.4 | 511.7 | 507.1 | 501.6 | 495.1 | 488.8 | 485.5 | 485.3 | 486.3 | 485.9 |
| 15°   | 532.1  | 529.6 | 521.7 | 513.2 | 503.6 | 494.1 | 486.5 | 481.9 | 478.2 | 477.2 | 479.4 |
| 17.5° | 546.5  | 541.4 | 530.4 | 518.7 | 504.4 | 492.0 | 480.2 | 470.7 | 464.2 | 462.4 | 463.0 |
| 20°   | 564.0  | 557.3 | 542.4 | 523.9 | 503.8 | 484.7 | 466.4 | 453.6 | 443.0 | 439.8 | 440.2 |
| 22.5° | 588.2  | 576.6 | 554.8 | 526.6 | 498.7 | 470.9 | 445.5 | 428.8 | 416.0 | 410.9 | 414.0 |
| 25°   | 615.6  | 603.0 | 566.6 | 526.0 | 485.5 | 448.7 | 420.7 | 398.9 | 387.4 | 379.8 | 381.5 |
| 27.5° | 653.4  | 631.0 | 579.2 | 520.5 | 466.6 | 421.7 | 389.2 | 368.7 | 358.1 | 354.2 | 356.1 |
| 30°   | 701.8  | 667.4 | 592.8 | 505.6 | 436.7 | 387.6 | 357.5 | 344.1 | 337.8 | 332.9 | 334.5 |
| 32.5° | 736.7  | 693.0 | 595.9 | 480.6 | 404.4 | 356.5 | 335.9 | 326.0 | 319.1 | 314.4 | 315.4 |
| 35°   | 761.7  | 714.8 | 594.5 | 450.0 | 370.7 | 330.9 | 318.9 | 310.7 | 299.6 | 289.4 | 287.6 |
| 37.5° | 795.3  | 742.0 | 584.1 | 416.4 | 337.4 | 313.6 | 305.1 | 290.0 | 274.0 | 260.3 | 259.7 |
| 40°   | 846.7  | 773.9 | 561.9 | 377.0 | 308.9 | 300.8 | 290.4 | 270.9 | 253.6 | 242.7 | 241.8 |
| 42.5° | 899.7  | 803.4 | 531.9 | 335.5 | 285.5 | 287.4 | 274.8 | 255.5 | 244.9 | 237.8 | 237.0 |
| 45°   | 964.5  | 835.3 | 499.3 | 299.6 | 268.3 | 274.8 | 261.2 | 250.0 | 243.7 | 239.0 | 237.8 |
| 47.5° | 1034.7 | 868.0 | 462.8 | 267.3 | 253.6 | 263.2 | 255.5 | 250.4 | 246.9 | 243.7 | 242.3 |
| 50°   | 1110.3 | 904.6 | 428.4 | 241.2 | 240.4 | 251.2 | 254.9 | 253.0 | 251.0 | 250.0 | 248.8 |
| 52.5° | 1193.2 | 942.0 | 399.6 | 222.9 | 228.8 | 242.7 | 255.1 | 256.5 | 256.5 | 255.9 | 255.1 |
| 55°   | 1249.3 | 968.0 | 370.3 | 208.1 | 217.1 | 235.8 | 254.7 | 260.1 | 262.2 | 261.4 | 260.5 |
| 57.5° | 1290.7 | 982.2 | 333.5 | 195.3 | 207.1 | 229.0 | 252.4 | 260.5 | 262.6 | 263.6 | 263.2 |
| 60°   | 1299.3 | 969.0 | 285.3 | 181.9 | 196.3 | 219.3 | 244.3 | 254.4 | 257.1 | 263.4 | 264.0 |
| 62.5° | 1260.9 | 928.4 | 237.4 | 168.7 | 183.1 | 204.5 | 233.3 | 247.5 | 252.8 | 262.6 | 263.6 |
| 64°   | 1213.7 | 882.8 | 210.8 | 160.4 | 174.6 | 196.1 | 227.8 | 245.7 | 252.6 | 265.6 | 266.4 |
| 65°   | 1179.2 | 849.7 | 194.1 | 155.1 | 169.1 | 190.6 | 224.8 | 246.3 | 254.4 | 270.3 | 271.5 |
| 67.5° | 1051.9 | 735.7 | 160.6 | 142.7 | 156.1 | 181.3 | 225.4 | 251.4 | 254.0 | 272.1 | 271.9 |
| 70°   | 870.4  | 585.7 | 134.5 | 131.3 | 143.5 | 173.8 | 222.9 | 243.3 | 243.5 | 255.5 | 252.6 |
| 72.5° | 651.8  | 432.9 | 116.7 | 119.5 | 129.5 | 155.9 | 210.5 | 232.3 | 228.8 | 230.5 | 227.6 |
| 75°   | 447.7  | 286.4 | 100.4 | 106.9 | 114.8 | 137.8 | 193.1 | 211.0 | 205.5 | 203.4 | 201.4 |
| 77.5° | 239.0  | 158.3 | 83.5  | 94.5  | 99.8  | 119.1 | 168.5 | 185.8 | 180.1 | 172.1 | 169.5 |
| 80°   | 96.7   | 74.6  | 67.3  | 78.2  | 81.3  | 95.9  | 140.2 | 151.0 | 146.7 | 132.9 | 128.4 |
| 82.5° | 48.6   | 44.7  | 52.8  | 61.6  | 61.8  | 68.5  | 104.3 | 114.4 | 104.9 | 88.0  | 84.1  |
| 85°   | 25.4   | 26.2  | 36.4  | 43.3  | 38.2  | 37.0  | 62.6  | 69.3  | 63.6  | 55.3  | 49.8  |
| 87.5° | 9.1    | 10.6  | 19.1  | 18.9  | 13.4  | 7.1   | 13.8  | 6.7   | 3.7   | 2.2   | 2.8   |
| 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)