

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: P200671

Luminaire Tested: **GAW-AF-01-LED-E1-T3-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-01-LED-E1-T3-8030  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5189 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 59  
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: 28.75 FT

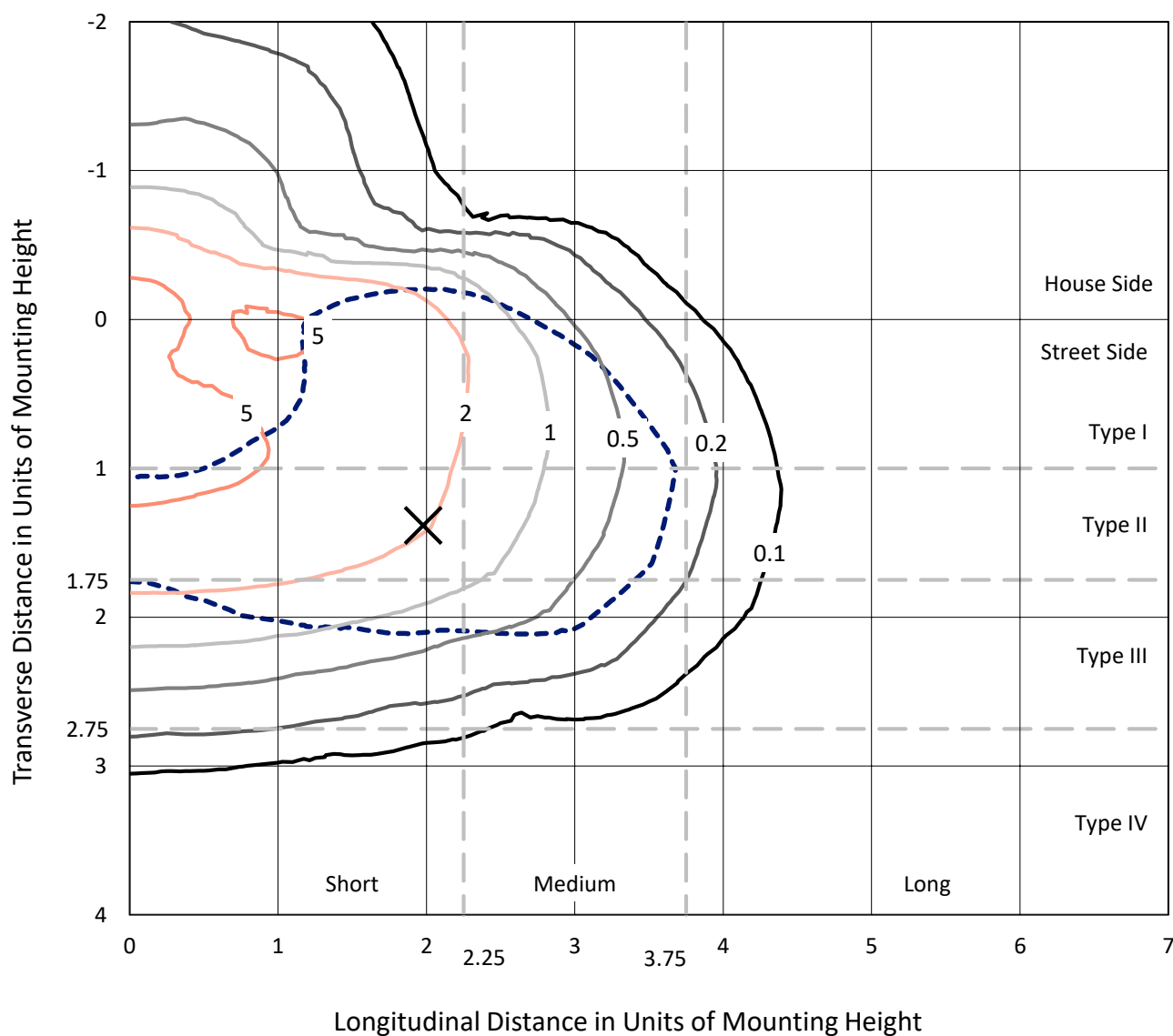


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

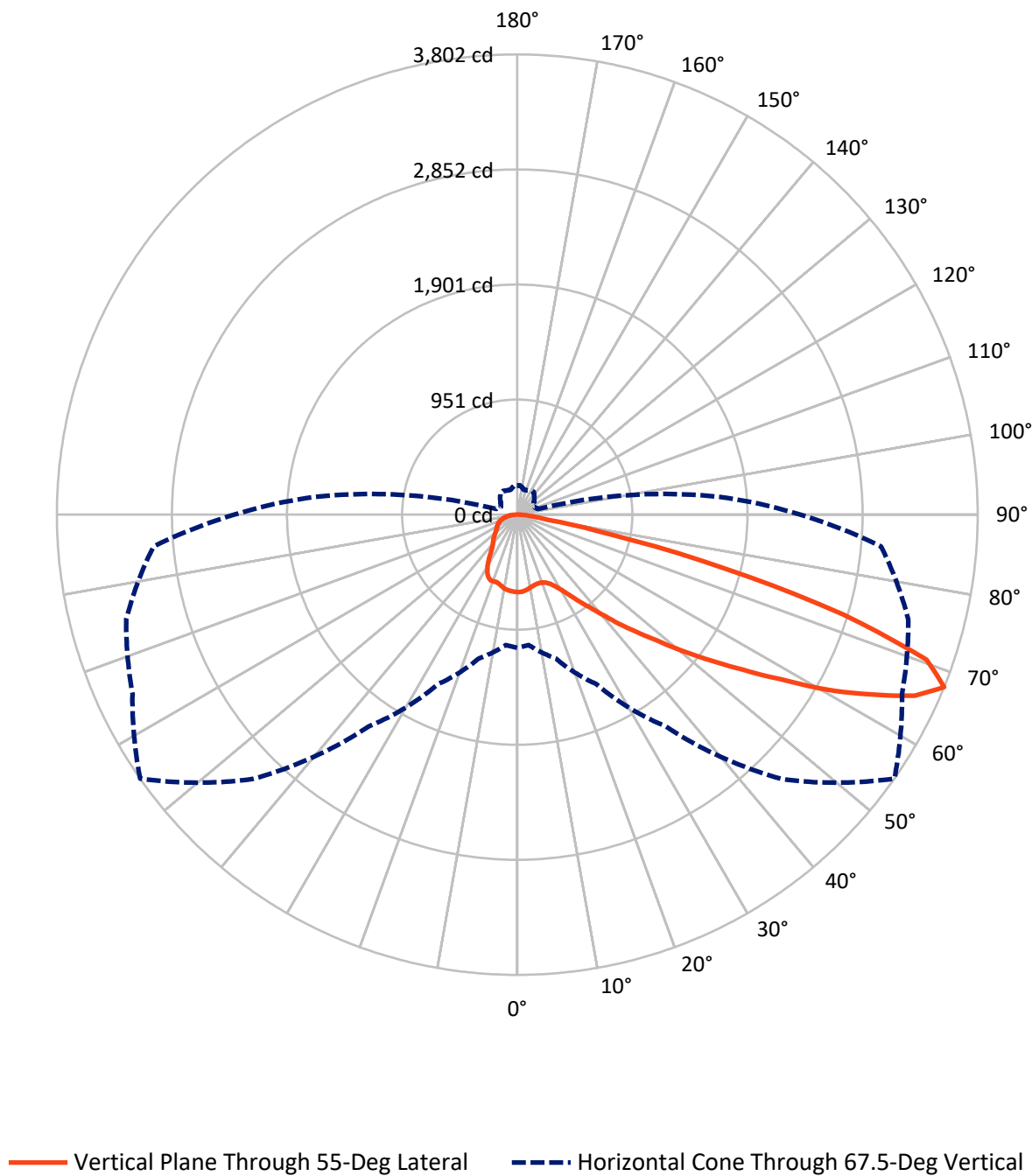


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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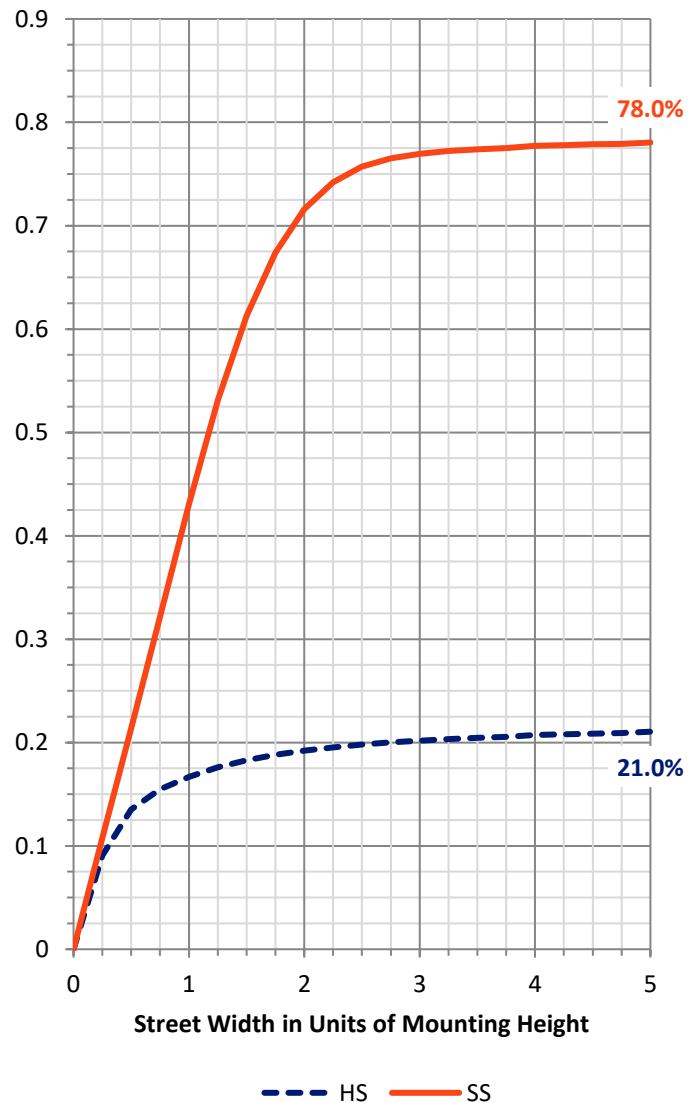
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1120.9   | 0.0    | 1120.9 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 4068.1   | 0.0    | 4068.1 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 5189.0   | 0.0    | 5189.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.7   | 1.2       |
| 10°-20°   | 169.1  | 3.3       |
| 20°-30°   | 283.3  | 5.5       |
| 30°-40°   | 465.9  | 9.0       |
| 40°-50°   | 784.3  | 15.1      |
| 50°-60°   | 1234.5 | 23.8      |
| 60°-70°   | 1473.2 | 28.4      |
| 70°-80°   | 632.6  | 12.2      |
| 80°-90°   | 86.2   | 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°    | 5189.0 | 100.0     |
| 0°-180°   | 5189.0 | 100.0     |

**Coefficient of Utilization**



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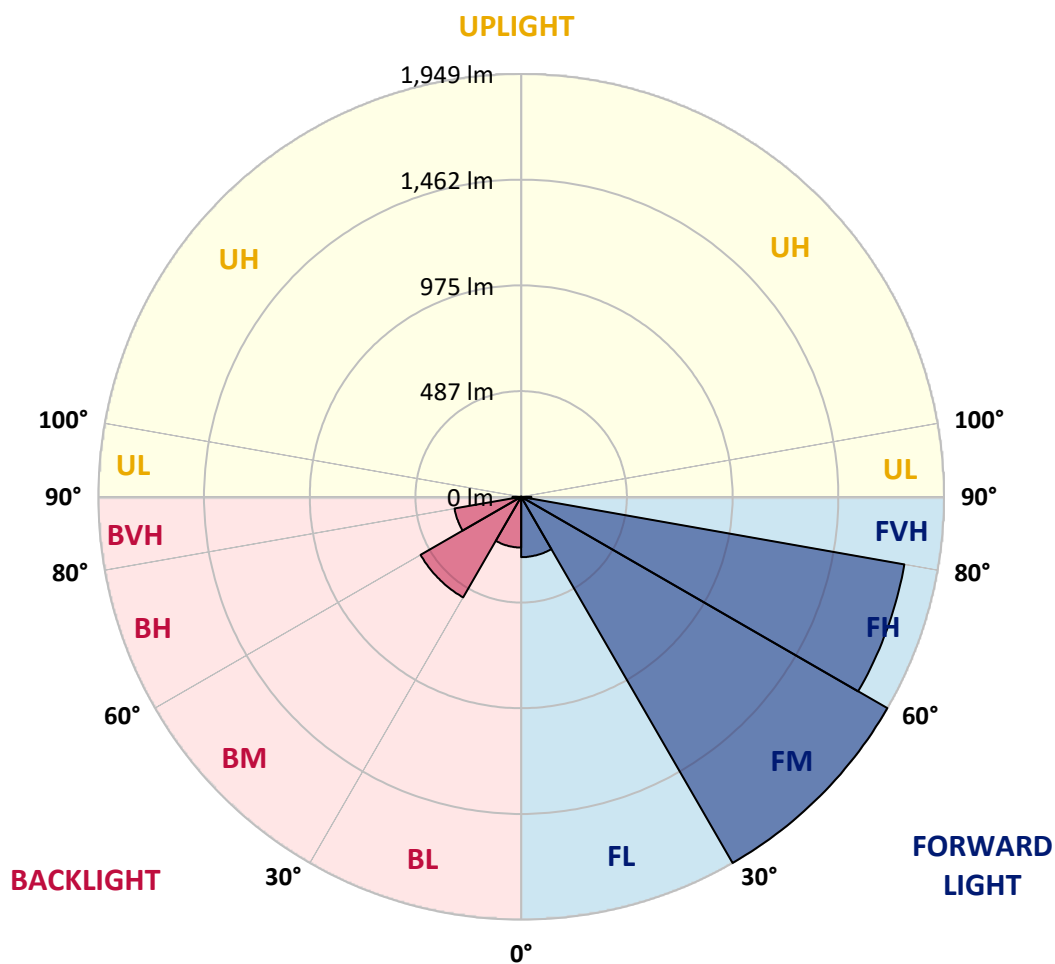
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 278.1  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 1949.4 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 1793.9 | 34.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 46.7   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 234.1  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 535.3  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 311.9  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 39.6   | 0.8       |                         |      | 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°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  | 639.9  |
| 2.5°  | 634.3  | 634.6  | 635.1  | 637.1  | 638.9  | 638.4  | 638.6  | 637.6  | 637.4  | 635.9  | 637.4  |
| 5°    | 626.3  | 627.1  | 627.3  | 630.6  | 632.6  | 633.1  | 632.3  | 631.1  | 629.6  | 628.1  | 628.8  |
| 7.5°  | 608.0  | 610.0  | 610.3  | 614.8  | 618.1  | 622.3  | 622.6  | 622.8  | 622.1  | 621.1  | 622.6  |
| 10°   | 596.5  | 597.0  | 596.8  | 600.0  | 602.5  | 607.3  | 610.0  | 614.8  | 616.8  | 617.3  | 618.3  |
| 12.5° | 595.7  | 595.2  | 594.5  | 594.5  | 593.7  | 595.7  | 600.8  | 607.5  | 612.3  | 613.8  | 615.0  |
| 15°   | 603.8  | 603.5  | 601.0  | 597.3  | 592.5  | 591.0  | 595.2  | 602.8  | 609.0  | 612.3  | 613.5  |
| 17.5° | 621.8  | 620.3  | 616.3  | 607.8  | 597.5  | 593.5  | 594.0  | 600.3  | 607.5  | 611.8  | 613.0  |
| 20°   | 654.9  | 654.9  | 646.4  | 630.3  | 612.0  | 602.5  | 598.0  | 601.8  | 608.8  | 614.5  | 616.3  |
| 22.5° | 712.0  | 712.5  | 698.3  | 671.9  | 641.1  | 620.8  | 609.5  | 608.8  | 617.1  | 623.6  | 625.6  |
| 25°   | 793.0  | 791.0  | 770.9  | 733.3  | 686.5  | 652.9  | 633.3  | 628.8  | 635.9  | 643.1  | 645.6  |
| 27.5° | 887.2  | 880.0  | 856.2  | 810.8  | 750.1  | 701.0  | 670.9  | 663.7  | 670.4  | 678.7  | 681.2  |
| 30°   | 980.5  | 972.9  | 944.6  | 895.0  | 827.6  | 765.4  | 722.3  | 710.5  | 720.1  | 731.8  | 733.3  |
| 32.5° | 1073.7 | 1073.7 | 1042.1 | 984.2  | 910.8  | 842.4  | 790.7  | 776.7  | 792.5  | 806.8  | 810.0  |
| 35°   | 1185.2 | 1185.7 | 1155.2 | 1085.5 | 1006.5 | 934.1  | 877.2  | 866.9  | 890.7  | 900.8  | 908.5  |
| 37.5° | 1322.3 | 1325.1 | 1285.7 | 1201.5 | 1115.1 | 1038.9 | 971.2  | 957.2  | 981.0  | 1008.3 | 1033.4 |
| 40°   | 1470.5 | 1474.0 | 1430.6 | 1326.8 | 1240.4 | 1160.7 | 1087.5 | 1062.2 | 1101.8 | 1153.9 | 1186.2 |
| 42.5° | 1611.8 | 1629.9 | 1588.0 | 1481.2 | 1388.2 | 1305.8 | 1231.6 | 1194.8 | 1244.4 | 1323.1 | 1351.2 |
| 45°   | 1816.1 | 1829.1 | 1756.2 | 1659.4 | 1572.0 | 1479.7 | 1381.5 | 1342.6 | 1412.1 | 1511.3 | 1517.1 |
| 47.5° | 1952.2 | 1942.4 | 1905.3 | 1845.1 | 1789.8 | 1703.5 | 1555.7 | 1513.1 | 1605.3 | 1722.1 | 1689.8 |
| 50°   | 2024.6 | 2027.6 | 2022.6 | 2026.1 | 2028.1 | 1974.0 | 1769.2 | 1710.8 | 1820.8 | 1961.9 | 1887.5 |
| 52.5° | 2092.3 | 2072.2 | 2088.8 | 2171.0 | 2270.2 | 2250.2 | 2001.5 | 1940.6 | 2051.9 | 2228.1 | 2096.5 |
| 55°   | 2090.8 | 2060.2 | 2114.1 | 2259.2 | 2474.5 | 2497.5 | 2262.4 | 2192.3 | 2296.3 | 2513.6 | 2318.1 |
| 57.5° | 2016.8 | 2018.3 | 2101.3 | 2291.3 | 2616.8 | 2730.1 | 2565.2 | 2459.9 | 2555.4 | 2802.8 | 2520.3 |
| 60°   | 1915.1 | 1928.9 | 2048.4 | 2286.0 | 2730.9 | 2920.9 | 2936.6 | 2748.4 | 2809.3 | 3065.7 | 2687.8 |
| 62.5° | 1750.9 | 1765.4 | 1930.4 | 2231.4 | 2713.6 | 3104.6 | 3272.5 | 3075.7 | 3074.7 | 3225.1 | 2736.9 |
| 65°   | 1492.0 | 1487.7 | 1660.9 | 2027.1 | 2568.5 | 3240.4 | 3606.1 | 3358.7 | 3274.7 | 3227.6 | 2638.1 |
| 67.5° | 1100.3 | 1081.2 | 1229.8 | 1543.9 | 2134.9 | 3088.3 | 3802.3 | 3506.1 | 3342.9 | 3015.3 | 2336.4 |
| 70°   | 570.9  | 551.9  | 672.2  | 901.5  | 1404.0 | 2410.3 | 3585.0 | 3429.9 | 3192.3 | 2527.6 | 1830.4 |
| 72.5° | 244.1  | 240.9  | 289.7  | 395.5  | 679.2  | 1390.2 | 2811.1 | 2968.7 | 2739.1 | 1883.2 | 1258.4 |
| 75°   | 164.2  | 163.2  | 181.5  | 215.5  | 305.5  | 564.2  | 1759.2 | 2107.3 | 2004.0 | 1167.7 | 707.8  |
| 77.5° | 128.8  | 127.6  | 138.3  | 154.9  | 198.0  | 222.6  | 780.7  | 1131.3 | 1047.1 | 508.3  | 309.8  |
| 80°   | 100.8  | 99.8   | 106.5  | 115.5  | 142.4  | 140.4  | 256.9  | 450.1  | 348.4  | 194.7  | 150.6  |
| 82.5° | 79.4   | 79.4   | 85.0   | 85.2   | 101.0  | 95.7   | 134.1  | 198.2  | 173.9  | 113.5  | 92.2   |
| 85°   | 72.7   | 72.7   | 78.4   | 63.7   | 65.9   | 60.4   | 83.2   | 117.5  | 110.3  | 46.6   | 40.1   |
| 87.5° | 36.6   | 35.6   | 65.9   | 56.4   | 35.8   | 32.1   | 40.6   | 56.9   | 61.2   | 25.8   | 20.1   |
| 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):**

|       | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 639.9  | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 |
| 2.5°  | 636.9  | 636.6 | 637.1 | 637.4 | 639.4 | 642.1 | 643.4 | 645.1 | 646.1 | 645.6 |
| 5°    | 629.3  | 629.8 | 631.8 | 633.3 | 636.9 | 641.4 | 643.9 | 645.9 | 647.6 | 646.9 |
| 7.5°  | 623.1  | 624.3 | 627.3 | 628.6 | 630.6 | 631.8 | 631.6 | 632.3 | 633.8 | 632.1 |
| 10°   | 619.6  | 621.1 | 623.3 | 621.6 | 616.8 | 610.0 | 603.8 | 600.5 | 601.5 | 600.3 |
| 12.5° | 616.1  | 618.1 | 616.3 | 608.0 | 594.7 | 586.0 | 581.2 | 581.7 | 584.0 | 584.5 |
| 15°   | 614.0  | 614.8 | 607.3 | 591.7 | 578.2 | 577.0 | 579.5 | 579.0 | 579.2 | 579.2 |
| 17.5° | 614.0  | 612.0 | 598.0 | 582.5 | 576.7 | 574.4 | 566.7 | 556.9 | 552.6 | 551.1 |
| 20°   | 617.3  | 612.0 | 595.0 | 584.7 | 572.2 | 552.9 | 532.3 | 514.3 | 506.3 | 504.0 |
| 22.5° | 627.1  | 618.1 | 603.5 | 585.7 | 550.1 | 517.8 | 485.2 | 463.7 | 449.1 | 446.6 |
| 25°   | 646.9  | 636.9 | 620.3 | 572.4 | 515.0 | 468.9 | 431.8 | 407.8 | 393.2 | 391.2 |
| 27.5° | 681.5  | 674.9 | 629.3 | 543.1 | 468.4 | 419.1 | 384.7 | 366.2 | 355.4 | 354.6 |
| 30°   | 733.6  | 730.3 | 624.8 | 499.8 | 411.0 | 370.7 | 354.1 | 343.4 | 335.3 | 335.1 |
| 32.5° | 816.8  | 790.5 | 610.0 | 446.9 | 358.7 | 336.3 | 329.6 | 323.1 | 316.8 | 316.8 |
| 35°   | 923.8  | 839.1 | 582.0 | 390.2 | 326.8 | 317.3 | 308.8 | 298.5 | 290.2 | 289.7 |
| 37.5° | 1049.6 | 869.2 | 531.6 | 344.6 | 311.8 | 304.5 | 292.0 | 276.7 | 262.2 | 259.7 |
| 40°   | 1176.7 | 878.2 | 460.7 | 316.5 | 302.3 | 291.7 | 276.4 | 258.4 | 244.4 | 243.6 |
| 42.5° | 1293.3 | 860.9 | 385.5 | 297.2 | 292.7 | 278.7 | 262.7 | 246.6 | 235.6 | 235.3 |
| 45°   | 1391.0 | 816.1 | 322.3 | 279.0 | 282.7 | 266.9 | 252.6 | 239.6 | 231.1 | 229.3 |
| 47.5° | 1483.0 | 752.6 | 277.9 | 259.7 | 272.7 | 260.4 | 248.4 | 236.1 | 227.8 | 226.6 |
| 50°   | 1589.8 | 684.2 | 246.9 | 240.9 | 263.9 | 258.1 | 251.9 | 239.1 | 225.3 | 223.8 |
| 52.5° | 1719.1 | 625.1 | 222.6 | 224.3 | 257.1 | 261.2 | 260.9 | 247.6 | 223.6 | 221.6 |
| 55°   | 1863.4 | 559.4 | 204.3 | 210.8 | 254.4 | 266.7 | 263.2 | 255.6 | 225.1 | 222.1 |
| 57.5° | 2005.5 | 482.7 | 191.5 | 200.5 | 250.4 | 266.2 | 252.4 | 241.6 | 228.6 | 224.3 |
| 60°   | 2112.1 | 379.7 | 181.7 | 191.5 | 241.6 | 257.9 | 240.6 | 226.3 | 227.8 | 224.6 |
| 62.5° | 2119.1 | 293.5 | 169.9 | 183.7 | 228.3 | 249.6 | 232.8 | 219.6 | 231.1 | 228.1 |
| 65°   | 1994.5 | 221.8 | 158.6 | 174.4 | 214.0 | 244.4 | 225.3 | 215.8 | 237.8 | 234.6 |
| 67.5° | 1679.2 | 178.4 | 149.1 | 164.9 | 199.8 | 233.3 | 218.6 | 212.3 | 243.9 | 238.1 |
| 70°   | 1212.3 | 152.1 | 139.9 | 153.4 | 187.0 | 220.8 | 212.5 | 206.0 | 227.6 | 218.6 |
| 72.5° | 746.4  | 131.8 | 129.3 | 138.1 | 177.2 | 207.8 | 203.5 | 194.2 | 205.0 | 197.7 |
| 75°   | 372.7  | 114.3 | 117.5 | 123.1 | 163.4 | 193.0 | 188.5 | 179.2 | 180.7 | 179.2 |
| 77.5° | 178.4  | 97.7  | 103.8 | 108.0 | 145.6 | 176.2 | 171.4 | 161.9 | 160.2 | 160.4 |
| 80°   | 113.0  | 81.7  | 87.5  | 90.5  | 130.1 | 156.6 | 151.9 | 142.4 | 162.4 | 150.6 |
| 82.5° | 70.7   | 66.4  | 67.9  | 73.4  | 113.3 | 136.3 | 130.1 | 121.6 | 146.4 | 115.8 |
| 85°   | 39.1   | 46.4  | 48.4  | 53.1  | 87.2  | 114.0 | 107.8 | 97.0  | 87.0  | 85.5  |
| 87.5° | 23.3   | 27.6  | 28.3  | 31.8  | 58.6  | 82.5  | 72.9  | 69.2  | 57.4  | 57.1  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)