

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: P198192

Luminaire Tested: **TT-C3-LED-E1-T4-PM-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34703)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C3-LED-E1-T4-PM-7060  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
DRIVE LANE DISTRIBUTION  
Light Source: (160) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5412.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

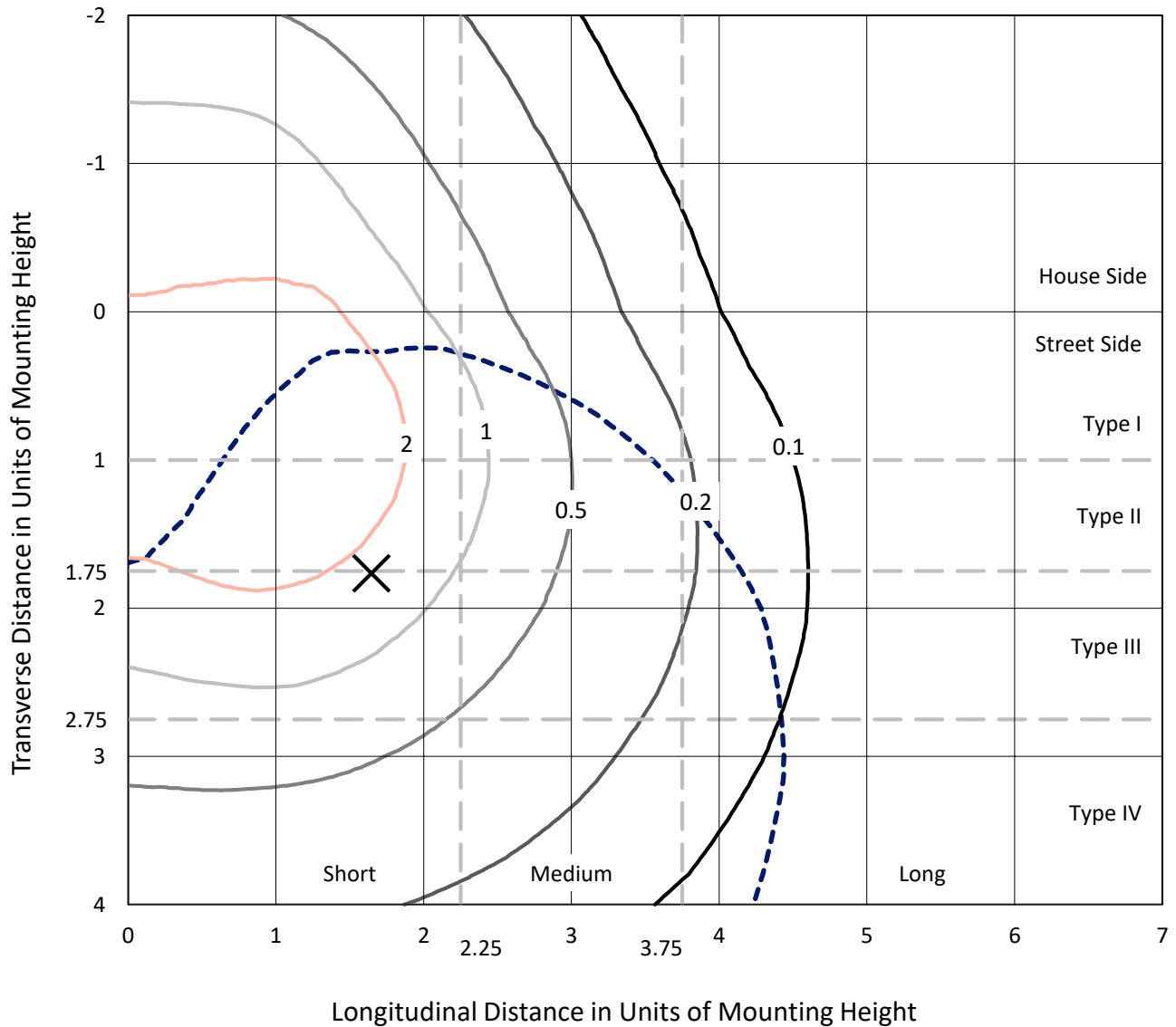
Input Watts (W): 66.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

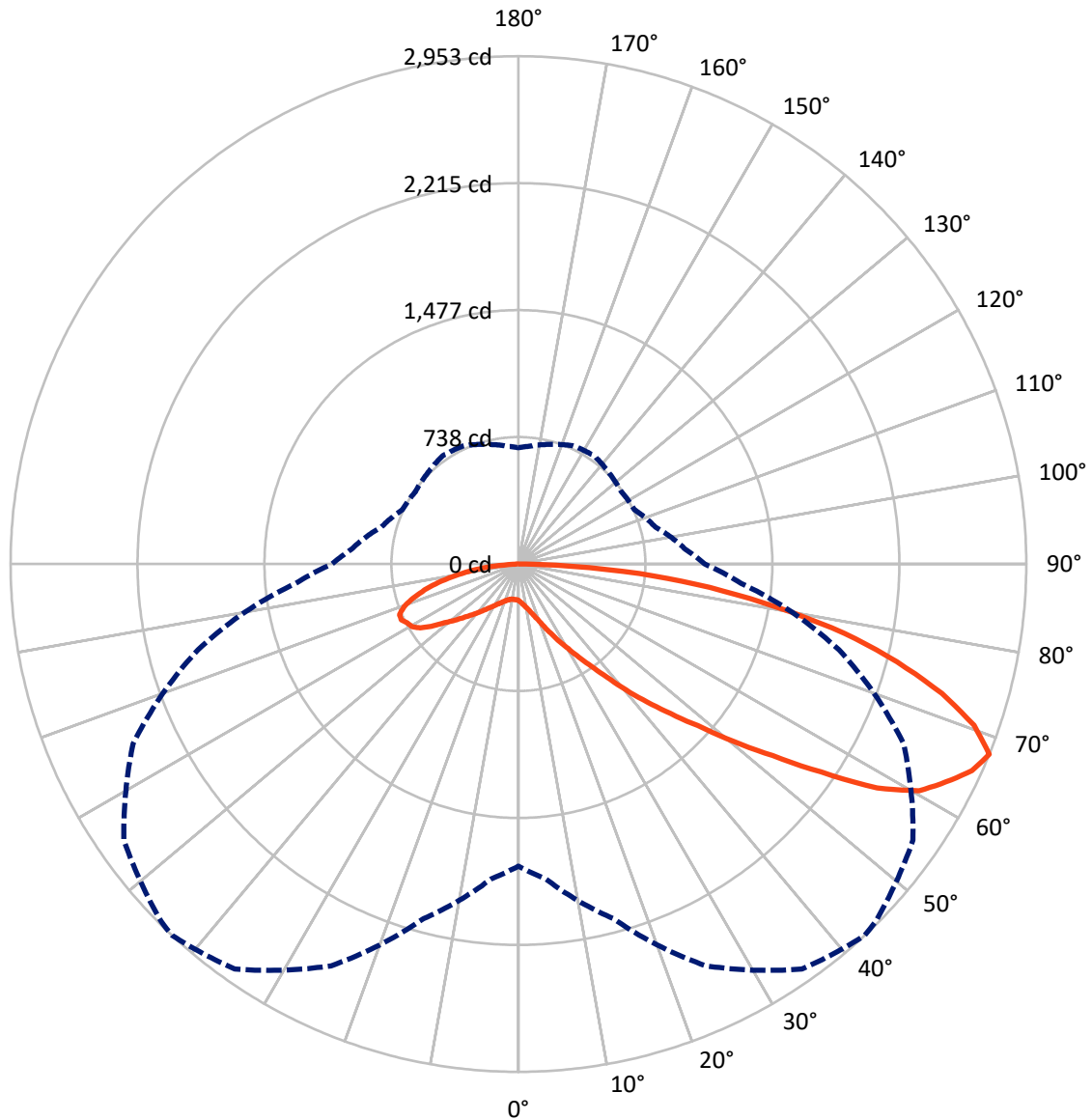
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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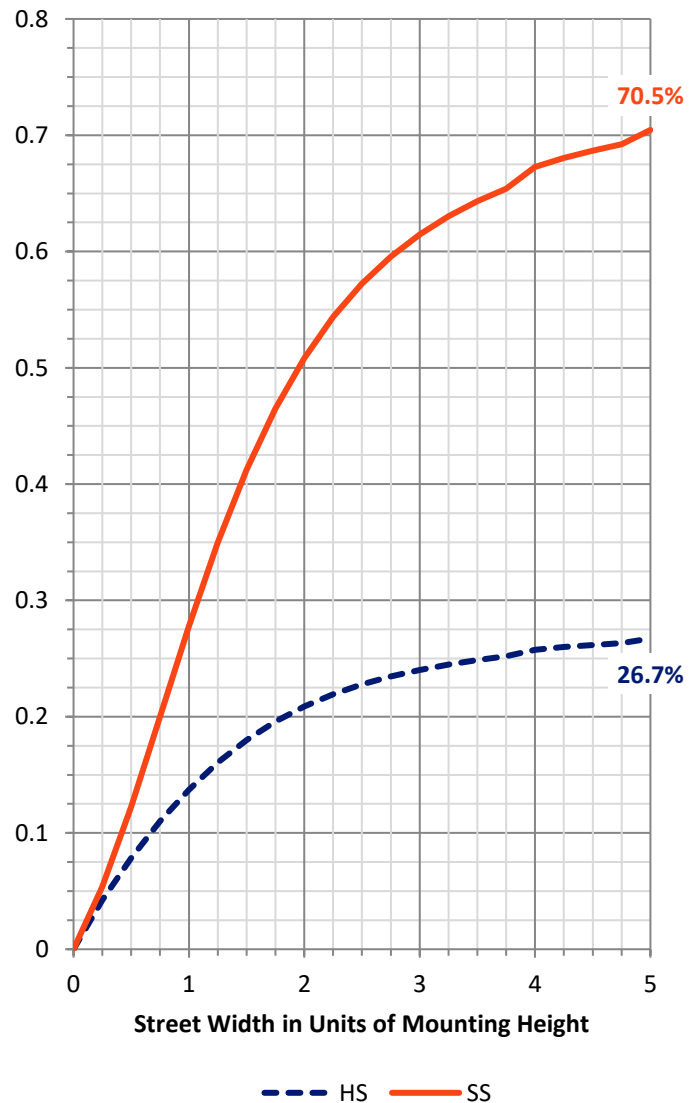
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1477.1   | 0.0    | 1477.1 |
|                    | % Fixture | 27.3     | 0.0    | 27.3   |
| <b>Street Side</b> | Lumens    | 3935.3   | 0.0    | 3935.3 |
|                    | % Fixture | 72.7     | 0.0    | 72.7   |
| <b>Total</b>       | Lumens    | 5412.4   | 0.0    | 5412.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.3   | 0.4       |
| 10°-20°   | 73.9   | 1.4       |
| 20°-30°   | 161.4  | 3.0       |
| 30°-40°   | 319.7  | 5.9       |
| 40°-50°   | 605.3  | 11.2      |
| 50°-60°   | 1074.7 | 19.9      |
| 60°-70°   | 1488.3 | 27.5      |
| 70°-80°   | 1276.6 | 23.6      |
| 80°-90°   | 391.2  | 7.2       |
| 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°    | 5412.4 | 100.0     |
| 0°-180°   | 5412.4 | 100.0     |



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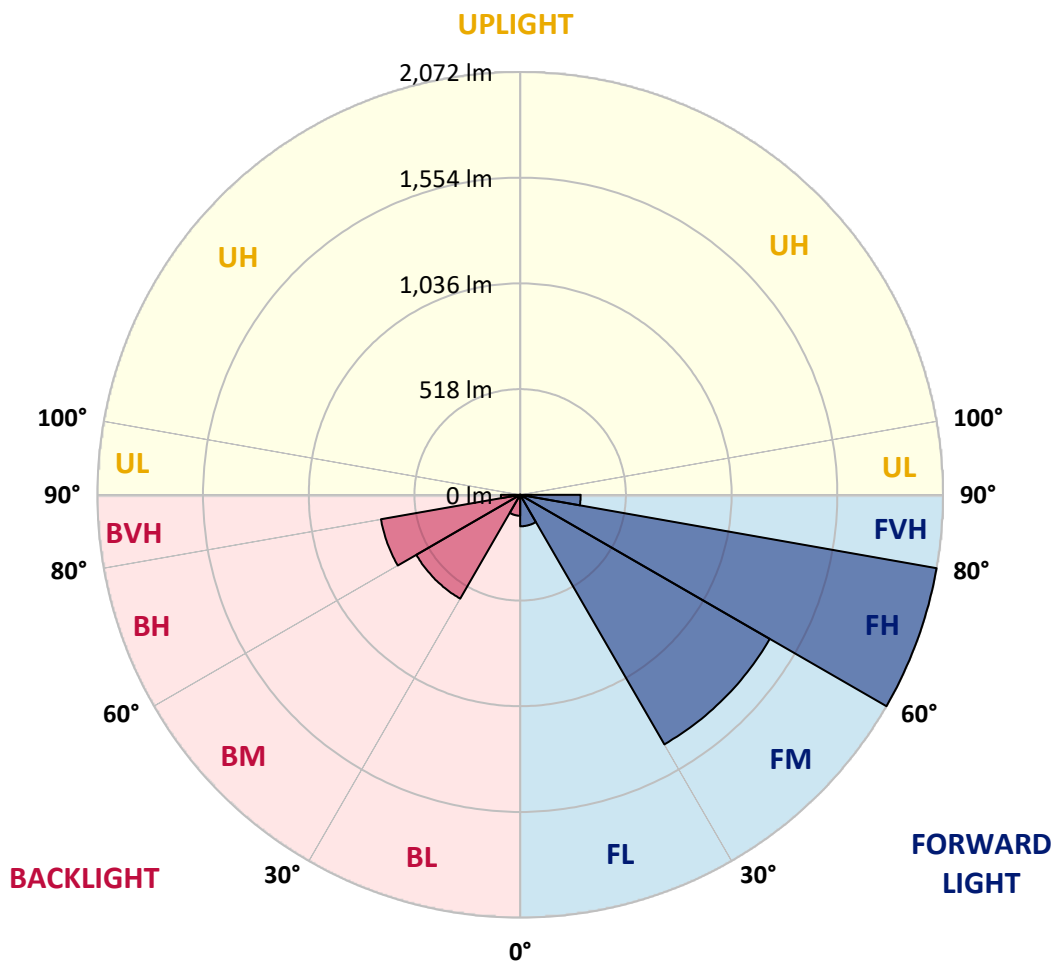
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 154.2  | 2.8       |                         |      |         |
| FM (30°-60°)   | 1412.2 | 26.1      |                         |      |         |
| FH (60°-80°)   | 2072.1 | 38.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 296.7  | 5.5       |                         |      | G3/500  |
| BL (0°-30°)    | 102.4  | 1.9       | B0/110                  |      |         |
| BM (30°-60°)   | 587.5  | 10.9      | B1/1000                 |      |         |
| BH (60°-80°)   | 692.8  | 12.8      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 94.4   | 1.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 43°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  | 211.4  |
| 2.5°  | 223.2  | 222.2  | 222.2  | 222.2  | 221.2  | 220.2  | 220.2  | 219.2  | 218.2  | 217.3  | 215.3  |
| 5°    | 235.0  | 233.0  | 233.0  | 233.0  | 232.0  | 231.0  | 230.0  | 228.1  | 225.1  | 222.2  | 220.2  |
| 7.5°  | 248.7  | 249.7  | 249.7  | 246.7  | 244.8  | 242.8  | 241.8  | 237.9  | 234.0  | 229.1  | 225.1  |
| 10°   | 265.4  | 266.4  | 266.4  | 264.4  | 260.5  | 258.5  | 256.6  | 252.6  | 245.8  | 238.9  | 233.0  |
| 12.5° | 284.1  | 286.1  | 287.1  | 284.1  | 279.2  | 275.3  | 276.2  | 269.4  | 260.5  | 251.7  | 242.8  |
| 15°   | 311.6  | 310.6  | 313.6  | 307.7  | 302.8  | 297.9  | 296.9  | 287.1  | 278.2  | 266.4  | 255.6  |
| 17.5° | 345.1  | 341.1  | 341.1  | 338.2  | 335.2  | 327.4  | 323.4  | 313.6  | 298.8  | 285.1  | 268.4  |
| 20°   | 379.5  | 378.5  | 376.5  | 374.5  | 368.6  | 359.8  | 360.8  | 345.1  | 327.4  | 307.7  | 287.1  |
| 22.5° | 419.8  | 423.7  | 417.8  | 417.8  | 412.9  | 406.0  | 403.1  | 382.4  | 358.8  | 331.3  | 307.7  |
| 25°   | 463.0  | 464.0  | 464.0  | 466.0  | 465.0  | 453.2  | 447.3  | 428.6  | 401.1  | 364.7  | 330.3  |
| 27.5° | 507.3  | 511.2  | 510.2  | 515.1  | 518.1  | 510.2  | 505.3  | 483.7  | 444.3  | 404.0  | 360.8  |
| 30°   | 556.4  | 559.4  | 564.3  | 576.1  | 579.0  | 571.2  | 567.2  | 541.7  | 502.3  | 445.3  | 391.3  |
| 32.5° | 612.4  | 616.4  | 621.3  | 643.9  | 654.7  | 645.9  | 640.0  | 617.4  | 568.2  | 505.3  | 436.5  |
| 35°   | 674.4  | 674.4  | 691.1  | 718.6  | 735.3  | 729.4  | 731.4  | 707.8  | 654.7  | 576.1  | 491.5  |
| 37.5° | 743.2  | 743.2  | 764.8  | 799.2  | 831.7  | 833.6  | 844.4  | 816.9  | 752.0  | 650.8  | 545.6  |
| 40°   | 804.1  | 816.9  | 849.4  | 893.6  | 944.7  | 961.4  | 966.3  | 938.8  | 859.2  | 739.3  | 605.6  |
| 42.5° | 874.9  | 889.7  | 930.0  | 995.8  | 1060.7 | 1097.1 | 1099.1 | 1072.5 | 989.9  | 851.3  | 692.1  |
| 45°   | 946.7  | 965.4  | 1014.5 | 1098.1 | 1197.4 | 1240.6 | 1241.6 | 1242.6 | 1166.9 | 985.0  | 793.3  |
| 47.5° | 1028.3 | 1043.0 | 1107.9 | 1207.2 | 1334.0 | 1404.8 | 1428.4 | 1431.3 | 1328.1 | 1123.6 | 881.8  |
| 50°   | 1116.8 | 1121.7 | 1211.1 | 1351.7 | 1522.8 | 1621.1 | 1634.8 | 1644.7 | 1499.2 | 1280.9 | 975.2  |
| 52.5° | 1208.2 | 1215.1 | 1319.3 | 1513.9 | 1729.2 | 1851.1 | 1874.7 | 1878.6 | 1761.6 | 1509.0 | 1156.1 |
| 55°   | 1302.6 | 1308.5 | 1443.1 | 1707.6 | 1975.0 | 2135.2 | 2177.5 | 2204.0 | 2020.2 | 1655.5 | 1228.8 |
| 57.5° | 1398.9 | 1413.6 | 1593.5 | 1909.1 | 2246.3 | 2458.6 | 2488.1 | 2447.8 | 2166.7 | 1730.2 | 1249.5 |
| 60°   | 1495.2 | 1521.8 | 1756.7 | 2134.2 | 2513.7 | 2677.9 | 2685.7 | 2573.6 | 2237.4 | 1771.5 | 1257.3 |
| 62.5° | 1585.7 | 1629.9 | 1927.8 | 2342.6 | 2691.6 | 2790.9 | 2790.9 | 2642.5 | 2338.7 | 1905.2 | 1347.8 |
| 65°   | 1677.1 | 1730.2 | 2056.6 | 2491.1 | 2788.9 | 2898.1 | 2910.8 | 2827.3 | 2513.7 | 1986.8 | 1374.3 |
| 67.5° | 1756.7 | 1838.3 | 2135.2 | 2577.6 | 2875.4 | 2953.1 | 2938.4 | 2800.7 | 2471.4 | 1929.7 | 1300.6 |
| 70°   | 1845.2 | 1901.2 | 2191.2 | 2575.6 | 2797.8 | 2810.6 | 2802.7 | 2654.3 | 2337.7 | 1823.6 | 1206.2 |
| 72.5° | 1880.6 | 1925.8 | 2152.9 | 2441.9 | 2576.6 | 2574.6 | 2560.9 | 2430.1 | 2130.3 | 1658.4 | 1076.4 |
| 75°   | 1844.2 | 1841.3 | 1975.9 | 2169.6 | 2273.8 | 2274.8 | 2264.0 | 2152.9 | 1862.9 | 1424.5 | 911.3  |
| 77.5° | 1646.6 | 1640.7 | 1699.7 | 1817.7 | 1929.7 | 1939.6 | 1920.9 | 1797.0 | 1551.3 | 1179.7 | 761.9  |
| 80°   | 1329.1 | 1304.5 | 1348.8 | 1445.1 | 1531.6 | 1522.8 | 1538.5 | 1402.8 | 1205.2 | 910.3  | 576.1  |
| 82.5° | 899.5  | 907.4  | 962.4  | 1020.4 | 1113.8 | 1121.7 | 1105.0 | 1030.2 | 872.0  | 660.6  | 405.0  |
| 85°   | 465.0  | 475.8  | 545.6  | 636.0  | 668.5  | 705.8  | 701.9  | 649.8  | 526.9  | 383.4  | 240.8  |
| 87.5° | 81.6   | 70.8   | 99.3   | 150.4  | 182.8  | 218.2  | 217.3  | 155.3  | 121.9  | 82.6   | 51.1   |
| 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°    | 211.4  | 211.4  | 211.4 | 211.4 | 211.4 | 211.4 | 211.4 | 211.4 | 211.4 | 211.4 | 211.4 |
| 2.5°  | 215.3  | 214.3  | 213.3 | 211.4 | 209.4 | 208.4 | 207.4 | 206.4 | 206.4 | 205.5 | 205.5 |
| 5°    | 219.2  | 217.3  | 215.3 | 212.3 | 210.4 | 208.4 | 206.4 | 205.5 | 204.5 | 203.5 | 203.5 |
| 7.5°  | 223.2  | 221.2  | 217.3 | 213.3 | 209.4 | 207.4 | 206.4 | 204.5 | 203.5 | 202.5 | 202.5 |
| 10°   | 230.0  | 227.1  | 221.2 | 215.3 | 211.4 | 208.4 | 205.5 | 204.5 | 203.5 | 203.5 | 202.5 |
| 12.5° | 237.9  | 233.0  | 226.1 | 219.2 | 213.3 | 209.4 | 207.4 | 206.4 | 205.5 | 205.5 | 204.5 |
| 15°   | 249.7  | 244.8  | 234.0 | 224.1 | 219.2 | 214.3 | 211.4 | 210.4 | 209.4 | 210.4 | 209.4 |
| 17.5° | 261.5  | 255.6  | 241.8 | 232.0 | 224.1 | 220.2 | 217.3 | 216.3 | 215.3 | 217.3 | 217.3 |
| 20°   | 277.2  | 268.4  | 253.6 | 240.8 | 232.0 | 227.1 | 226.1 | 224.1 | 225.1 | 226.1 | 226.1 |
| 22.5° | 293.9  | 283.1  | 265.4 | 250.7 | 242.8 | 236.9 | 235.9 | 235.9 | 235.9 | 236.9 | 237.9 |
| 25°   | 314.6  | 300.8  | 278.2 | 263.5 | 253.6 | 248.7 | 247.7 | 247.7 | 248.7 | 249.7 | 249.7 |
| 27.5° | 340.1  | 322.4  | 294.9 | 276.2 | 265.4 | 260.5 | 259.5 | 260.5 | 262.5 | 263.5 | 263.5 |
| 30°   | 369.6  | 349.0  | 313.6 | 293.9 | 281.2 | 275.3 | 275.3 | 276.2 | 278.2 | 280.2 | 277.2 |
| 32.5° | 405.0  | 378.5  | 339.2 | 312.6 | 298.8 | 293.0 | 293.0 | 294.9 | 293.9 | 294.9 | 297.9 |
| 35°   | 450.2  | 418.8  | 369.6 | 338.2 | 320.5 | 313.6 | 313.6 | 314.6 | 314.6 | 316.5 | 317.5 |
| 37.5° | 498.4  | 460.1  | 402.1 | 367.7 | 348.0 | 338.2 | 335.2 | 336.2 | 338.2 | 337.2 | 339.2 |
| 40°   | 551.5  | 505.3  | 440.4 | 397.2 | 376.5 | 365.7 | 359.8 | 359.8 | 358.8 | 357.8 | 356.9 |
| 42.5° | 622.3  | 568.2  | 487.6 | 434.5 | 409.0 | 397.2 | 387.3 | 384.4 | 382.4 | 383.4 | 376.5 |
| 45°   | 711.7  | 648.8  | 547.6 | 489.6 | 447.3 | 428.6 | 418.8 | 412.9 | 408.0 | 404.0 | 400.1 |
| 47.5° | 787.4  | 707.8  | 602.6 | 536.8 | 492.5 | 469.9 | 454.2 | 444.3 | 434.5 | 430.6 | 430.6 |
| 50°   | 869.0  | 788.4  | 666.5 | 581.0 | 541.7 | 514.1 | 497.4 | 479.7 | 466.0 | 457.1 | 462.0 |
| 52.5° | 1027.3 | 925.1  | 762.9 | 665.5 | 592.8 | 562.3 | 542.6 | 519.1 | 500.4 | 488.6 | 489.6 |
| 55°   | 1073.5 | 966.3  | 815.0 | 721.6 | 658.6 | 629.2 | 598.7 | 567.2 | 538.7 | 522.0 | 523.0 |
| 57.5° | 1080.4 | 971.3  | 824.8 | 743.2 | 706.8 | 687.2 | 660.6 | 619.3 | 583.0 | 556.4 | 553.5 |
| 60°   | 1075.5 | 968.3  | 823.8 | 741.2 | 714.7 | 718.6 | 710.8 | 675.4 | 626.2 | 593.8 | 589.8 |
| 62.5° | 1147.2 | 1022.4 | 866.1 | 757.9 | 723.5 | 729.4 | 739.3 | 718.6 | 670.4 | 626.2 | 619.3 |
| 65°   | 1153.1 | 1032.2 | 872.0 | 779.6 | 753.0 | 753.0 | 758.9 | 743.2 | 703.9 | 658.6 | 647.8 |
| 67.5° | 1083.3 | 975.2  | 825.8 | 745.2 | 731.4 | 747.1 | 767.8 | 757.9 | 719.6 | 687.2 | 676.3 |
| 70°   | 1005.7 | 899.5  | 765.8 | 689.1 | 682.2 | 703.9 | 737.3 | 746.1 | 728.4 | 701.9 | 698.0 |
| 72.5° | 883.8  | 803.2  | 678.3 | 618.3 | 616.4 | 638.0 | 672.4 | 697.0 | 701.9 | 702.9 | 700.9 |
| 75°   | 761.9  | 679.3  | 578.0 | 532.8 | 536.8 | 560.3 | 590.8 | 617.4 | 643.9 | 665.5 | 674.4 |
| 77.5° | 624.2  | 563.3  | 482.7 | 439.4 | 447.3 | 473.8 | 498.4 | 525.0 | 552.5 | 589.8 | 594.8 |
| 80°   | 478.7  | 437.5  | 364.7 | 346.0 | 345.1 | 366.7 | 396.2 | 411.9 | 451.2 | 481.7 | 478.7 |
| 82.5° | 338.2  | 305.7  | 264.4 | 247.7 | 251.7 | 266.4 | 285.1 | 295.9 | 324.4 | 341.1 | 346.0 |
| 85°   | 199.6  | 185.8  | 162.2 | 146.5 | 150.4 | 165.2 | 168.1 | 181.9 | 188.7 | 199.6 | 196.6 |
| 87.5° | 42.3   | 36.4   | 32.4  | 33.4  | 29.5  | 30.5  | 34.4  | 33.4  | 33.4  | 39.3  | 37.4  |
| 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)