

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: P144094

Luminaire Tested: **CNC-F04-LED-E1-SQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144094  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CNC-F04-LED-E1-SQ-7030  
Description: CONCISE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9245.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 102.2  
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

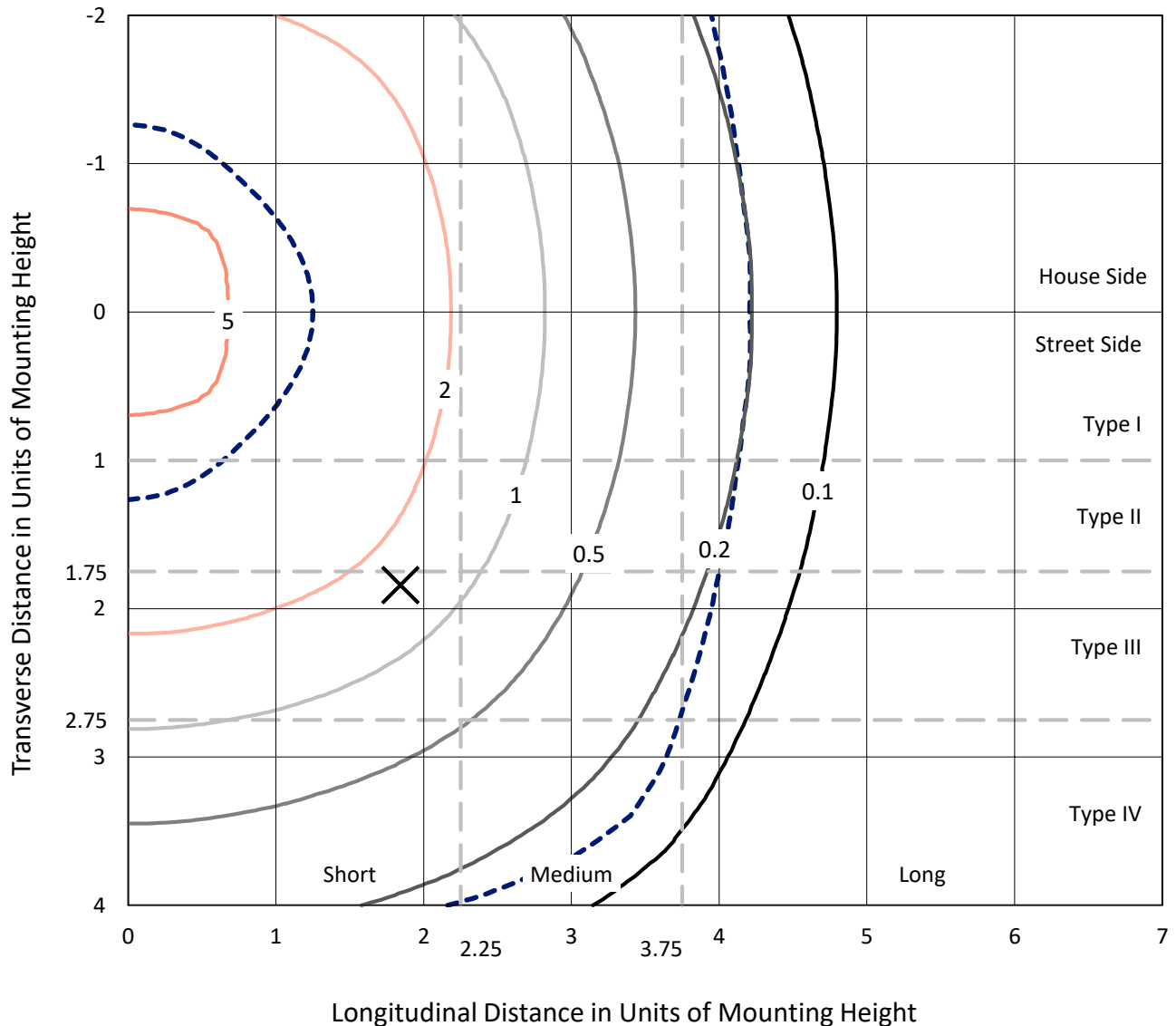


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### Iso-Footcandle Lines of Horizontal Illumination

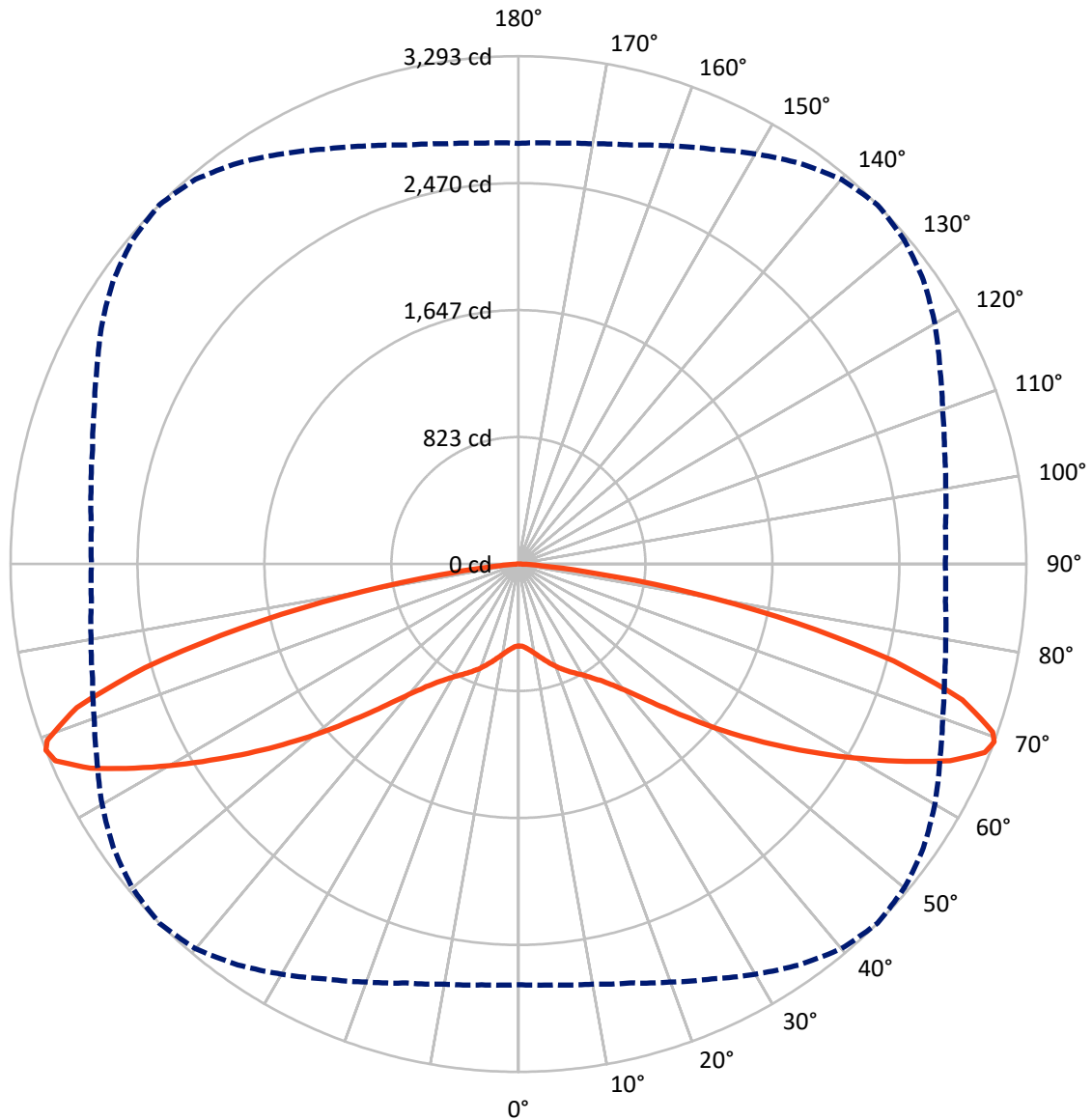
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4622.8   | 0.0    | 4622.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4622.8   | 0.0    | 4622.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9245.7   | 0.0    | 9245.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.6   | 0.6       |
| 10°-20°   | 184.7  | 2.0       |
| 20°-30°   | 356.1  | 3.9       |
| 30°-40°   | 583.6  | 6.3       |
| 40°-50°   | 1014.8 | 11.0      |
| 50°-60°   | 1802.6 | 19.5      |
| 60°-70°   | 2798.7 | 30.3      |
| 70°-80°   | 2229.8 | 24.1      |
| 80°-90°   | 221.7  | 2.4       |
| 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°    | 9245.7 | 100.0     |
| 0°-180°   | 9245.7 | 100.0     |



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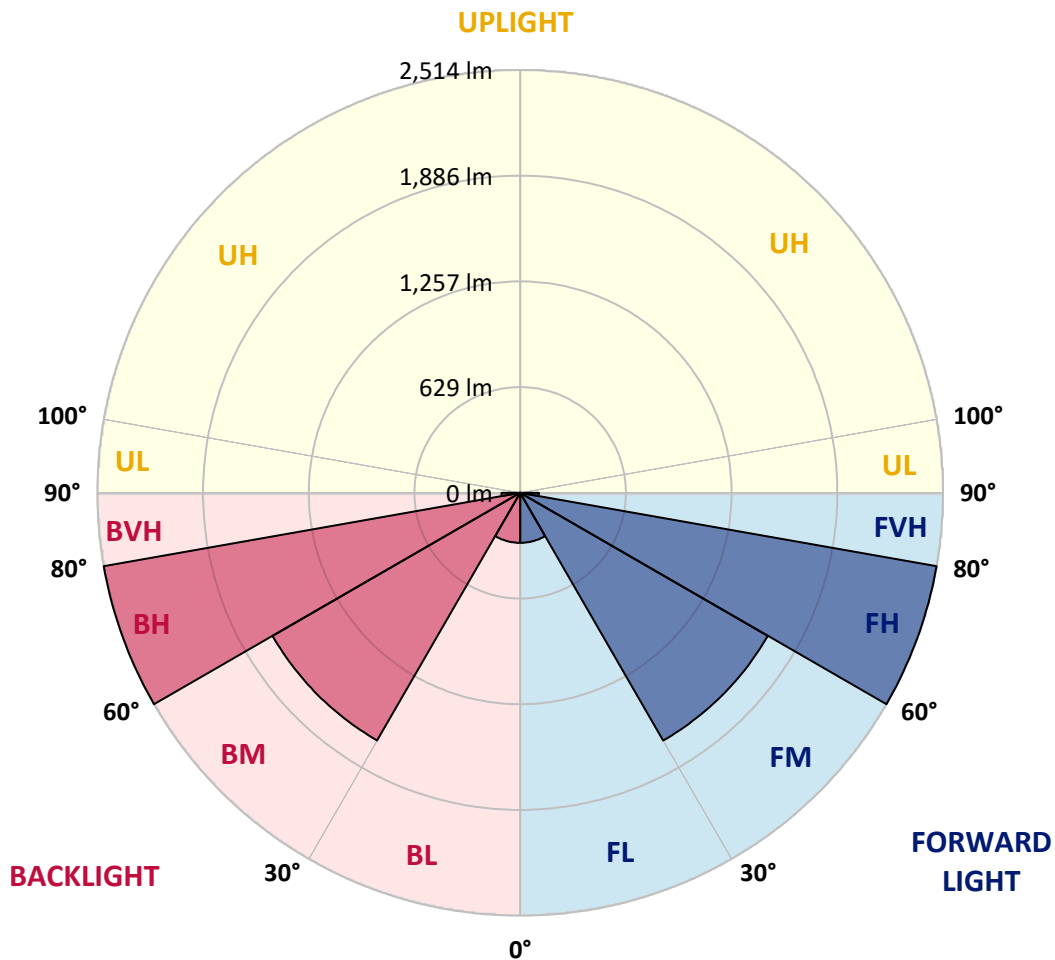
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 297.2  | 3.2       |                         |      |         |
| FM (30°-60°)   | 1700.5 | 18.4      |                         |      |         |
| FH (60°-80°)   | 2514.2 | 27.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 110.9  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 297.2  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 1700.5 | 18.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 2514.2 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 110.9  | 1.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  |
| 2.5°  | 535.6  | 535.6  | 535.6  | 535.0  | 535.0  | 534.4  | 535.0  | 534.4  | 534.4  | 534.4  | 534.4  |
| 5°    | 549.5  | 548.3  | 548.3  | 547.7  | 548.9  | 548.9  | 547.7  | 548.3  | 547.7  | 548.3  | 548.3  |
| 7.5°  | 567.0  | 567.0  | 567.0  | 566.4  | 567.6  | 567.0  | 566.4  | 567.0  | 567.0  | 566.4  | 566.4  |
| 10°   | 588.7  | 589.3  | 588.7  | 588.7  | 590.5  | 589.9  | 590.5  | 590.5  | 591.1  | 590.5  | 590.5  |
| 12.5° | 614.1  | 614.1  | 614.7  | 615.3  | 615.9  | 616.5  | 618.3  | 617.7  | 618.9  | 617.7  | 617.7  |
| 15°   | 643.6  | 644.8  | 643.6  | 643.6  | 645.4  | 646.6  | 647.2  | 647.2  | 648.4  | 647.8  | 646.6  |
| 17.5° | 675.0  | 675.6  | 675.0  | 674.4  | 676.2  | 678.0  | 678.6  | 678.6  | 680.4  | 679.2  | 679.2  |
| 20°   | 706.9  | 707.5  | 706.3  | 705.7  | 708.2  | 708.2  | 709.4  | 710.0  | 711.8  | 712.4  | 710.6  |
| 22.5° | 736.5  | 737.1  | 736.5  | 735.9  | 738.3  | 738.3  | 740.1  | 740.7  | 743.1  | 742.5  | 742.5  |
| 25°   | 765.5  | 765.5  | 764.9  | 764.9  | 767.3  | 767.9  | 769.7  | 770.9  | 773.3  | 773.3  | 773.3  |
| 27.5° | 792.0  | 792.6  | 791.4  | 790.8  | 795.6  | 797.4  | 798.6  | 801.0  | 802.9  | 804.1  | 803.5  |
| 30°   | 822.2  | 822.2  | 821.6  | 823.4  | 826.4  | 828.8  | 831.2  | 834.8  | 838.4  | 837.2  | 837.2  |
| 32.5° | 857.7  | 858.9  | 858.3  | 860.8  | 864.4  | 868.0  | 871.0  | 875.2  | 877.0  | 880.1  | 877.6  |
| 35°   | 905.4  | 907.8  | 906.6  | 909.0  | 912.0  | 914.4  | 921.1  | 925.3  | 928.3  | 930.1  | 928.9  |
| 37.5° | 965.1  | 963.9  | 966.3  | 966.9  | 973.0  | 976.0  | 983.8  | 989.8  | 994.7  | 996.5  | 995.3  |
| 40°   | 1039.3 | 1037.5 | 1040.5 | 1043.5 | 1051.4 | 1054.4 | 1063.4 | 1072.5 | 1079.1 | 1081.5 | 1080.3 |
| 42.5° | 1128.0 | 1130.4 | 1135.2 | 1139.4 | 1150.3 | 1158.7 | 1169.0 | 1182.3 | 1189.5 | 1192.5 | 1188.3 |
| 45°   | 1244.4 | 1240.2 | 1249.2 | 1260.1 | 1266.1 | 1284.8 | 1301.7 | 1315.6 | 1327.6 | 1332.5 | 1327.6 |
| 47.5° | 1377.1 | 1376.5 | 1387.3 | 1400.6 | 1416.3 | 1433.8 | 1453.7 | 1471.8 | 1492.9 | 1494.1 | 1488.1 |
| 50°   | 1523.7 | 1535.7 | 1541.8 | 1555.0 | 1584.0 | 1605.7 | 1631.0 | 1658.2 | 1677.5 | 1683.5 | 1672.7 |
| 52.5° | 1700.4 | 1709.5 | 1713.1 | 1735.4 | 1761.9 | 1788.5 | 1824.1 | 1856.6 | 1879.0 | 1881.4 | 1875.9 |
| 55°   | 1892.2 | 1899.5 | 1906.1 | 1933.2 | 1962.2 | 1985.7 | 2031.0 | 2062.9 | 2085.2 | 2093.7 | 2090.1 |
| 57.5° | 2090.7 | 2097.3 | 2105.8 | 2135.3 | 2164.9 | 2198.0 | 2240.9 | 2278.3 | 2304.2 | 2319.9 | 2315.7 |
| 60°   | 2310.8 | 2310.8 | 2330.1 | 2359.7 | 2383.8 | 2423.0 | 2467.7 | 2511.1 | 2539.5 | 2564.2 | 2557.5 |
| 62.5° | 2542.5 | 2549.1 | 2567.8 | 2591.9 | 2617.3 | 2653.5 | 2704.1 | 2756.0 | 2799.4 | 2818.1 | 2817.5 |
| 65°   | 2718.0 | 2730.1 | 2754.8 | 2782.5 | 2824.8 | 2867.6 | 2931.5 | 2996.1 | 3048.5 | 3075.7 | 3075.7 |
| 67.5° | 2769.3 | 2777.1 | 2807.9 | 2850.1 | 2911.0 | 2979.2 | 3066.0 | 3155.9 | 3227.7 | 3263.3 | 3241.0 |
| 69°   | 2728.2 | 2739.7 | 2766.9 | 2812.7 | 2885.1 | 2968.3 | 3071.5 | 3173.4 | 3256.6 | 3293.4 | 3267.5 |
| 70°   | 2680.6 | 2693.3 | 2720.4 | 2765.6 | 2840.4 | 2929.1 | 3032.3 | 3142.0 | 3231.3 | 3262.7 | 3233.1 |
| 72.5° | 2486.4 | 2502.1 | 2521.4 | 2560.6 | 2628.1 | 2711.4 | 2804.3 | 2900.8 | 2986.4 | 3011.1 | 2974.4 |
| 75°   | 2155.2 | 2158.2 | 2167.9 | 2196.8 | 2221.0 | 2280.1 | 2359.1 | 2435.7 | 2500.2 | 2514.7 | 2475.5 |
| 77.5° | 1525.5 | 1509.2 | 1492.9 | 1517.6 | 1536.9 | 1612.9 | 1698.6 | 1761.3 | 1828.9 | 1849.4 | 1809.6 |
| 80°   | 668.9  | 662.9  | 685.8  | 718.4  | 803.5  | 854.1  | 938.0  | 1027.8 | 1085.1 | 1152.1 | 1080.3 |
| 82.5° | 132.1  | 139.3  | 161.1  | 199.1  | 245.5  | 308.8  | 363.7  | 425.9  | 482.0  | 507.3  | 481.3  |
| 85°   | 53.7   | 58.5   | 66.4   | 74.2   | 79.6   | 89.3   | 105.0  | 130.3  | 143.6  | 145.4  | 138.1  |
| 87.5° | 22.3   | 25.9   | 35.0   | 41.6   | 42.2   | 40.4   | 41.6   | 42.8   | 35.0   | 28.4   | 35.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  | 531.4  |
| 2.5°  | 534.4  | 535.0  | 534.4  | 535.0  | 534.4  | 534.4  | 535.0  | 534.4  |
| 5°    | 547.7  | 548.3  | 547.7  | 547.1  | 546.5  | 547.1  | 547.1  | 547.1  |
| 7.5°  | 566.4  | 565.8  | 565.2  | 565.2  | 564.6  | 564.0  | 565.2  | 565.2  |
| 10°   | 589.3  | 588.7  | 587.5  | 587.5  | 586.9  | 586.9  | 586.9  | 586.9  |
| 12.5° | 617.1  | 615.3  | 614.7  | 612.8  | 612.2  | 611.6  | 611.6  | 612.2  |
| 15°   | 646.0  | 644.2  | 643.6  | 640.6  | 640.6  | 640.0  | 640.0  | 640.0  |
| 17.5° | 676.8  | 675.0  | 672.6  | 672.6  | 670.8  | 669.5  | 670.1  | 668.9  |
| 20°   | 708.2  | 705.7  | 704.5  | 703.9  | 701.5  | 701.5  | 701.5  | 700.9  |
| 22.5° | 738.9  | 737.1  | 735.3  | 732.9  | 730.5  | 729.9  | 729.9  | 729.3  |
| 25°   | 770.3  | 767.3  | 763.6  | 761.2  | 758.8  | 757.0  | 757.0  | 757.0  |
| 27.5° | 801.6  | 798.0  | 792.6  | 789.6  | 786.0  | 784.2  | 784.2  | 783.6  |
| 30°   | 834.8  | 830.6  | 825.8  | 821.6  | 816.7  | 814.9  | 814.3  | 813.1  |
| 32.5° | 874.6  | 870.4  | 865.6  | 859.6  | 854.7  | 851.7  | 851.7  | 849.9  |
| 35°   | 925.3  | 920.5  | 916.9  | 909.0  | 903.0  | 898.2  | 898.8  | 900.0  |
| 37.5° | 991.7  | 985.6  | 982.6  | 973.0  | 965.1  | 960.3  | 960.3  | 959.7  |
| 40°   | 1076.1 | 1070.1 | 1063.4 | 1054.4 | 1044.7 | 1038.1 | 1036.3 | 1036.3 |
| 42.5° | 1183.5 | 1178.0 | 1169.0 | 1156.3 | 1144.9 | 1137.6 | 1131.6 | 1132.2 |
| 45°   | 1318.0 | 1311.3 | 1298.7 | 1283.0 | 1269.1 | 1258.9 | 1250.4 | 1250.4 |
| 47.5° | 1481.4 | 1467.6 | 1450.1 | 1436.2 | 1412.7 | 1397.0 | 1391.0 | 1389.8 |
| 50°   | 1667.8 | 1641.9 | 1620.2 | 1600.3 | 1575.5 | 1559.3 | 1550.2 | 1547.8 |
| 52.5° | 1863.3 | 1836.1 | 1809.0 | 1783.0 | 1752.9 | 1736.0 | 1721.5 | 1720.3 |
| 55°   | 2075.6 | 2041.2 | 2006.8 | 1981.5 | 1945.9 | 1928.4 | 1913.9 | 1905.5 |
| 57.5° | 2292.1 | 2253.5 | 2228.8 | 2192.6 | 2155.2 | 2142.5 | 2128.7 | 2118.4 |
| 60°   | 2535.8 | 2493.6 | 2461.0 | 2423.0 | 2398.9 | 2371.8 | 2358.5 | 2350.7 |
| 62.5° | 2785.0 | 2745.7 | 2704.1 | 2667.9 | 2634.2 | 2615.5 | 2597.4 | 2588.3 |
| 65°   | 3038.3 | 2973.8 | 2924.3 | 2874.2 | 2834.4 | 2800.6 | 2772.3 | 2768.7 |
| 67.5° | 3193.9 | 3112.5 | 3029.8 | 2956.9 | 2898.4 | 2850.7 | 2821.7 | 2811.5 |
| 69°   | 3206.6 | 3117.9 | 3014.8 | 2927.3 | 2859.7 | 2813.9 | 2779.5 | 2768.7 |
| 70°   | 3171.6 | 3082.3 | 2973.8 | 2879.7 | 2809.7 | 2759.6 | 2731.3 | 2713.2 |
| 72.5° | 2915.8 | 2837.4 | 2733.1 | 2640.2 | 2576.8 | 2518.3 | 2490.0 | 2482.7 |
| 75°   | 2405.5 | 2322.3 | 2226.4 | 2181.8 | 2137.7 | 2100.9 | 2081.6 | 2079.8 |
| 77.5° | 1708.2 | 1623.2 | 1550.2 | 1491.7 | 1444.0 | 1420.5 | 1426.0 | 1406.0 |
| 80°   | 977.8  | 866.8  | 778.7  | 726.8  | 656.3  | 614.1  | 566.4  | 600.8  |
| 82.5° | 420.4  | 339.6  | 258.8  | 210.5  | 160.4  | 127.3  | 105.0  | 97.7   |
| 85°   | 117.6  | 95.9   | 80.2   | 73.6   | 66.4   | 59.1   | 50.1   | 46.4   |
| 87.5° | 39.8   | 38.0   | 33.8   | 33.8   | 30.8   | 25.9   | 18.1   | 16.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)