

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: P143794

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P143794  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)  
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-CQ-7030  
Description: CONCISE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - CONCENTRATED TYPE 5 SQUARE  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9372.6 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - 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

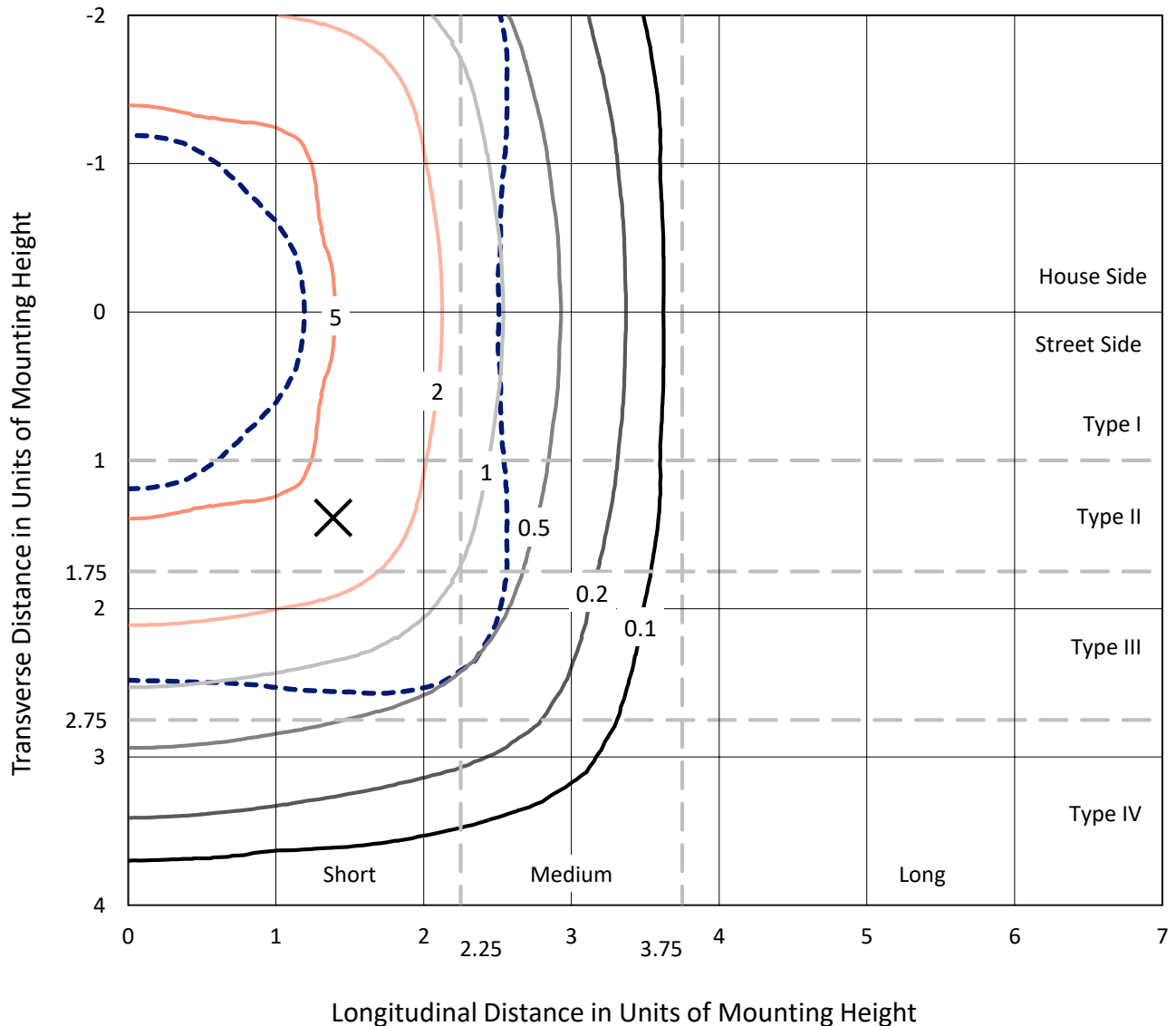


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

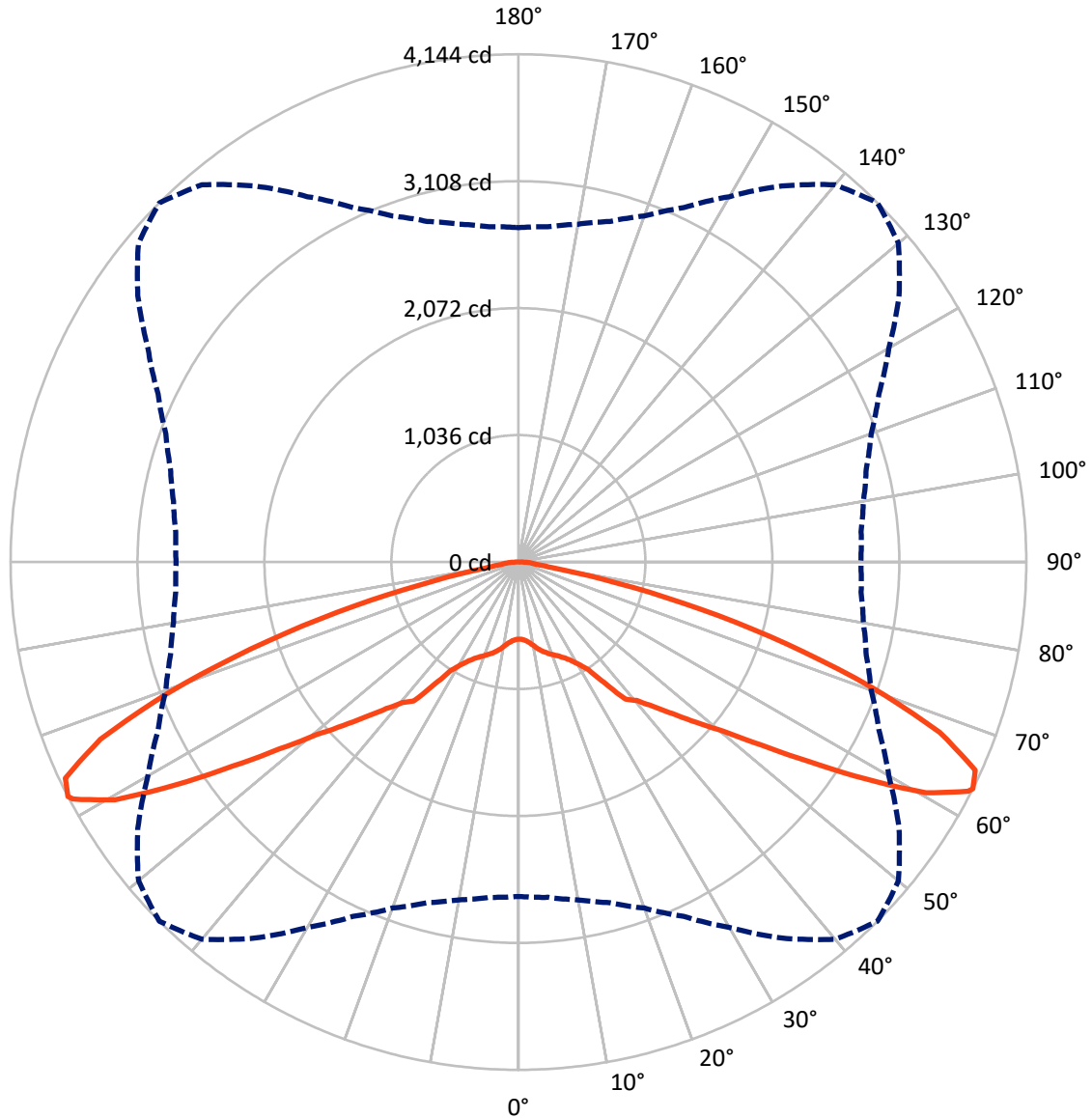


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4686.3   | 0.0    | 4686.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4686.3   | 0.0    | 4686.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9372.6   | 0.0    | 9372.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.3   | 0.7       |
| 10°-20°   | 216.4  | 2.3       |
| 20°-30°   | 413.3  | 4.4       |
| 30°-40°   | 787.4  | 8.4       |
| 40°-50°   | 1355.8 | 14.5      |
| 50°-60°   | 2422.8 | 25.8      |
| 60°-70°   | 2951.0 | 31.5      |
| 70°-80°   | 1051.2 | 11.2      |
| 80°-90°   | 111.5  | 1.2       |
| 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°    | 9372.6 | 100.0     |
| 0°-180°   | 9372.6 | 100.0     |



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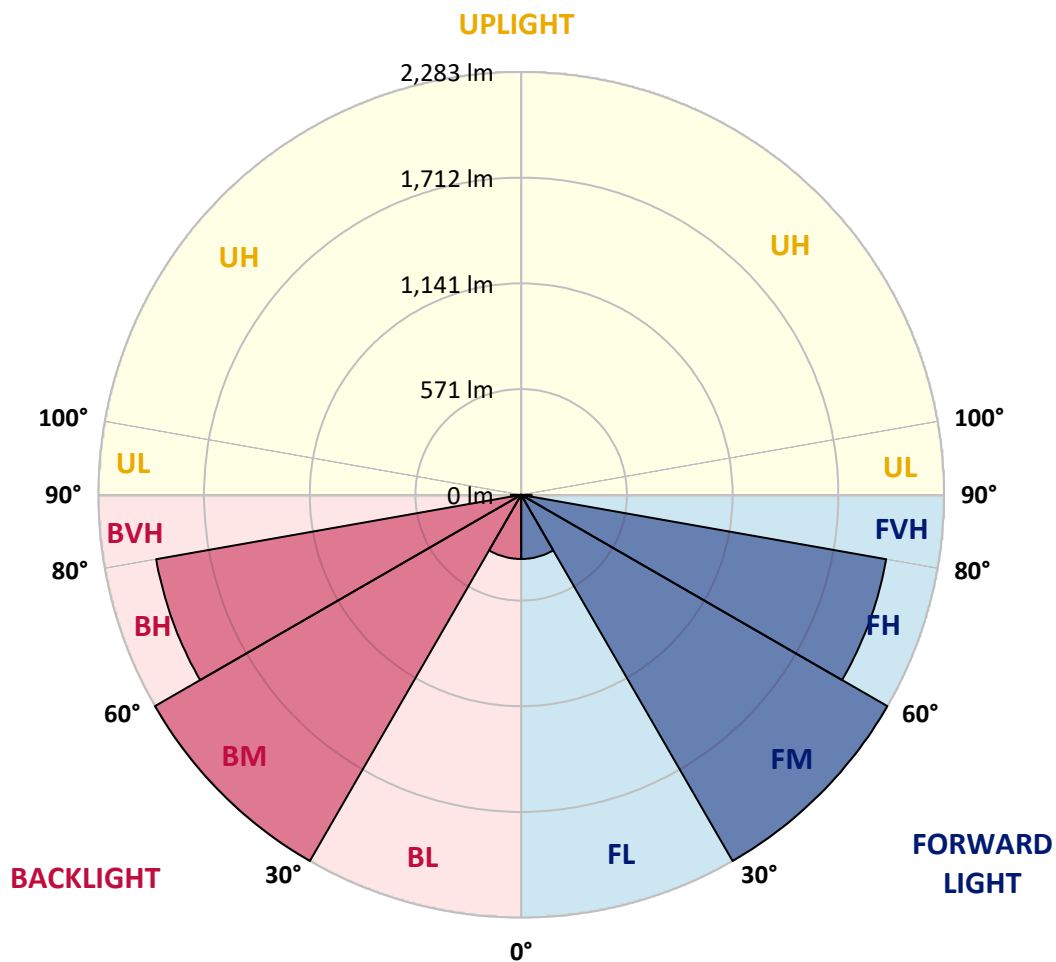
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 346.5  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 2283.0 | 24.4      |                         |      |         |
| FH   | (60°-80°)   | 2001.1 | 21.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 55.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 346.5  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2283.0 | 24.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2001.1 | 21.4      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 55.7   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  |
| 2.5°  | 634.0  | 633.4  | 634.0  | 632.8  | 632.8  | 632.1  | 632.1  | 632.1  | 630.9  | 632.1  | 630.9  |
| 5°    | 647.2  | 646.6  | 647.2  | 646.0  | 646.0  | 644.8  | 644.8  | 644.8  | 643.6  | 644.8  | 644.2  |
| 7.5°  | 670.1  | 671.4  | 670.1  | 668.9  | 668.9  | 667.7  | 667.1  | 667.1  | 666.5  | 665.9  | 667.1  |
| 10°   | 702.1  | 703.3  | 701.5  | 700.3  | 699.7  | 699.1  | 697.9  | 697.3  | 697.3  | 694.9  | 695.5  |
| 12.5° | 735.9  | 735.9  | 734.1  | 733.5  | 733.5  | 732.3  | 729.9  | 729.3  | 729.3  | 728.1  | 726.8  |
| 15°   | 766.1  | 766.1  | 764.9  | 762.4  | 763.0  | 761.2  | 759.4  | 758.2  | 758.2  | 757.0  | 755.8  |
| 17.5° | 793.8  | 793.8  | 792.0  | 789.6  | 788.4  | 787.8  | 785.4  | 784.2  | 784.2  | 782.9  | 781.7  |
| 20°   | 821.6  | 822.8  | 819.7  | 817.3  | 814.9  | 812.5  | 810.1  | 808.9  | 807.1  | 807.7  | 807.1  |
| 22.5° | 854.7  | 855.3  | 850.5  | 847.5  | 842.7  | 839.6  | 836.0  | 834.8  | 832.4  | 832.4  | 833.6  |
| 25°   | 897.0  | 896.3  | 890.9  | 885.5  | 880.1  | 874.0  | 868.6  | 867.4  | 865.0  | 864.4  | 865.0  |
| 27.5° | 952.4  | 951.8  | 945.2  | 938.0  | 930.7  | 921.7  | 915.0  | 911.4  | 909.6  | 907.2  | 908.4  |
| 30°   | 1020.6 | 1021.8 | 1014.0 | 1005.5 | 996.5  | 985.6  | 977.2  | 972.3  | 968.7  | 966.3  | 967.5  |
| 32.5° | 1159.3 | 1158.1 | 1146.1 | 1128.0 | 1108.7 | 1083.3 | 1062.8 | 1054.4 | 1047.7 | 1045.3 | 1047.1 |
| 35°   | 1298.7 | 1297.5 | 1292.6 | 1287.2 | 1282.4 | 1266.1 | 1251.0 | 1233.5 | 1219.1 | 1210.0 | 1212.4 |
| 37.5° | 1364.4 | 1364.4 | 1360.8 | 1359.6 | 1359.6 | 1369.3 | 1381.3 | 1403.0 | 1419.9 | 1421.1 | 1415.7 |
| 40°   | 1467.0 | 1467.0 | 1460.9 | 1457.9 | 1456.1 | 1459.1 | 1467.0 | 1474.8 | 1483.3 | 1485.1 | 1479.0 |
| 42.5° | 1587.6 | 1582.2 | 1578.0 | 1571.9 | 1571.3 | 1574.3 | 1582.8 | 1592.4 | 1600.9 | 1608.1 | 1595.5 |
| 45°   | 1717.9 | 1713.1 | 1708.9 | 1705.2 | 1707.6 | 1715.5 | 1726.9 | 1743.8 | 1755.9 | 1766.8 | 1756.5 |
| 47.5° | 1863.3 | 1853.0 | 1857.2 | 1853.6 | 1859.6 | 1875.3 | 1895.8 | 1921.2 | 1933.8 | 1953.1 | 1936.9 |
| 50°   | 2044.2 | 2046.6 | 2044.2 | 2044.2 | 2051.5 | 2072.0 | 2102.1 | 2136.5 | 2158.2 | 2169.1 | 2159.4 |
| 52.5° | 2313.3 | 2306.0 | 2289.7 | 2294.6 | 2304.2 | 2336.8 | 2376.0 | 2424.2 | 2452.0 | 2477.9 | 2447.8 |
| 55°   | 2607.6 | 2608.8 | 2606.4 | 2613.0 | 2631.7 | 2664.9 | 2714.4 | 2787.4 | 2822.3 | 2867.6 | 2831.4 |
| 57.5° | 2851.3 | 2859.7 | 2874.2 | 2894.1 | 2934.5 | 2990.0 | 3087.2 | 3198.7 | 3291.6 | 3340.5 | 3283.8 |
| 60°   | 2930.3 | 2938.8 | 2973.8 | 3029.2 | 3105.2 | 3218.6 | 3376.1 | 3567.3 | 3734.4 | 3821.2 | 3747.0 |
| 62.5° | 2778.3 | 2794.0 | 2845.9 | 2922.5 | 3047.9 | 3225.3 | 3459.3 | 3742.2 | 3999.8 | 4118.6 | 4028.7 |
| 63°   | 2728.9 | 2746.3 | 2799.4 | 2877.2 | 3005.1 | 3190.3 | 3443.0 | 3745.8 | 4018.5 | 4143.9 | 4046.8 |
| 65°   | 2509.3 | 2520.8 | 2576.8 | 2665.5 | 2807.9 | 3000.9 | 3282.0 | 3640.3 | 3950.9 | 4096.3 | 3993.1 |
| 67.5° | 2163.7 | 2178.7 | 2230.0 | 2306.6 | 2444.7 | 2649.2 | 2925.5 | 3282.6 | 3588.4 | 3704.8 | 3616.8 |
| 70°   | 1735.4 | 1752.3 | 1794.5 | 1865.7 | 1974.3 | 2163.7 | 2400.1 | 2733.7 | 2963.5 | 3054.6 | 2960.5 |
| 72.5° | 1219.7 | 1226.9 | 1257.7 | 1332.5 | 1413.9 | 1564.7 | 1752.3 | 2011.7 | 2232.4 | 2292.1 | 2201.7 |
| 75°   | 516.3  | 516.9  | 557.4  | 605.0  | 706.9  | 857.1  | 1020.6 | 1243.8 | 1442.2 | 1535.1 | 1420.5 |
| 77.5° | 165.3  | 167.1  | 178.5  | 196.0  | 229.8  | 296.8  | 417.4  | 539.9  | 722.0  | 810.1  | 702.7  |
| 80°   | 138.1  | 140.5  | 145.4  | 149.0  | 151.4  | 155.0  | 168.9  | 188.2  | 237.1  | 275.7  | 222.6  |
| 82.5° | 118.8  | 123.1  | 133.9  | 138.1  | 140.5  | 141.8  | 143.6  | 143.0  | 139.9  | 138.7  | 139.3  |
| 85°   | 90.5   | 100.7  | 112.8  | 122.4  | 123.7  | 124.3  | 127.9  | 129.1  | 119.4  | 109.8  | 119.4  |
| 87.5° | 39.2   | 50.7   | 77.8   | 86.3   | 84.4   | 78.4   | 83.8   | 88.7   | 80.8   | 59.1   | 79.0   |
| 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°    | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  | 629.1  |
| 2.5°  | 631.5  | 632.8  | 632.8  | 632.8  | 632.8  | 633.4  | 634.0  | 633.4  |
| 5°    | 644.8  | 646.0  | 645.4  | 646.0  | 646.0  | 646.6  | 647.2  | 646.6  |
| 7.5°  | 667.7  | 667.7  | 667.7  | 668.9  | 668.9  | 670.1  | 670.1  | 670.1  |
| 10°   | 696.1  | 695.5  | 695.5  | 696.7  | 697.9  | 698.5  | 699.7  | 699.1  |
| 12.5° | 726.8  | 725.6  | 726.2  | 727.5  | 728.7  | 729.3  | 730.5  | 729.9  |
| 15°   | 754.6  | 754.0  | 754.0  | 755.8  | 756.4  | 757.0  | 759.4  | 759.4  |
| 17.5° | 781.1  | 781.1  | 781.1  | 783.6  | 784.2  | 786.6  | 788.4  | 788.4  |
| 20°   | 807.7  | 807.7  | 807.7  | 810.1  | 811.9  | 815.5  | 819.1  | 818.5  |
| 22.5° | 834.8  | 835.4  | 836.6  | 839.0  | 843.3  | 848.7  | 851.7  | 851.7  |
| 25°   | 868.6  | 871.0  | 873.4  | 877.0  | 883.1  | 890.3  | 895.1  | 897.0  |
| 27.5° | 912.0  | 917.5  | 923.5  | 928.9  | 935.6  | 944.6  | 951.2  | 952.4  |
| 30°   | 971.1  | 979.0  | 988.6  | 995.9  | 1004.3 | 1014.6 | 1022.4 | 1026.6 |
| 32.5° | 1055.0 | 1074.3 | 1087.0 | 1112.9 | 1128.6 | 1146.1 | 1160.5 | 1166.6 |
| 35°   | 1227.5 | 1246.8 | 1263.7 | 1281.2 | 1284.8 | 1290.8 | 1298.7 | 1300.5 |
| 37.5° | 1398.2 | 1382.5 | 1367.4 | 1366.8 | 1362.6 | 1363.8 | 1366.2 | 1369.3 |
| 40°   | 1472.4 | 1467.6 | 1459.7 | 1462.7 | 1463.4 | 1463.4 | 1468.2 | 1468.8 |
| 42.5° | 1591.8 | 1580.4 | 1571.3 | 1578.6 | 1579.8 | 1581.0 | 1585.8 | 1591.2 |
| 45°   | 1743.8 | 1726.3 | 1714.9 | 1710.7 | 1714.9 | 1713.7 | 1720.3 | 1721.5 |
| 47.5° | 1917.6 | 1894.6 | 1868.7 | 1860.3 | 1857.8 | 1852.4 | 1863.9 | 1862.7 |
| 50°   | 2130.5 | 2093.7 | 2062.3 | 2050.3 | 2044.2 | 2041.2 | 2044.2 | 2044.2 |
| 52.5° | 2400.1 | 2363.3 | 2320.5 | 2306.6 | 2301.8 | 2308.4 | 2298.8 | 2309.0 |
| 55°   | 2771.1 | 2711.4 | 2652.9 | 2634.2 | 2631.1 | 2628.1 | 2629.3 | 2633.5 |
| 57.5° | 3188.5 | 3082.3 | 3003.9 | 2958.1 | 2928.5 | 2914.0 | 2898.4 | 2895.9 |
| 60°   | 3591.4 | 3398.4 | 3249.4 | 3148.1 | 3076.3 | 3022.0 | 2994.3 | 2984.6 |
| 62.5° | 3785.7 | 3503.4 | 3271.7 | 3099.2 | 2992.4 | 2903.8 | 2854.9 | 2842.3 |
| 63°   | 3791.1 | 3490.1 | 3244.6 | 3062.4 | 2938.2 | 2858.5 | 2806.7 | 2793.4 |
| 65°   | 3690.3 | 3347.7 | 3060.0 | 2859.7 | 2728.2 | 2645.0 | 2581.1 | 2567.2 |
| 67.5° | 3323.6 | 2991.2 | 2696.9 | 2493.6 | 2351.3 | 2284.3 | 2213.7 | 2211.9 |
| 70°   | 2727.6 | 2430.9 | 2183.0 | 1996.0 | 1877.1 | 1810.8 | 1739.0 | 1740.8 |
| 72.5° | 1994.2 | 1730.6 | 1559.9 | 1413.9 | 1288.4 | 1225.7 | 1158.1 | 1164.8 |
| 75°   | 1200.4 | 965.1  | 811.3  | 684.6  | 555.5  | 478.3  | 426.5  | 396.9  |
| 77.5° | 513.3  | 351.1  | 252.1  | 200.3  | 168.9  | 156.2  | 150.2  | 148.4  |
| 80°   | 178.5  | 158.0  | 149.0  | 146.6  | 144.8  | 142.4  | 138.1  | 133.9  |
| 82.5° | 144.8  | 144.8  | 139.9  | 139.3  | 133.9  | 129.7  | 118.8  | 113.4  |
| 85°   | 128.5  | 126.1  | 121.8  | 120.0  | 118.8  | 109.8  | 95.9   | 88.7   |
| 87.5° | 85.1   | 79.0   | 75.4   | 77.2   | 74.8   | 67.0   | 41.0   | 32.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)