

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: P595229

Luminaire Tested: **IST-PA1D-750-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1D-750-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8323 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

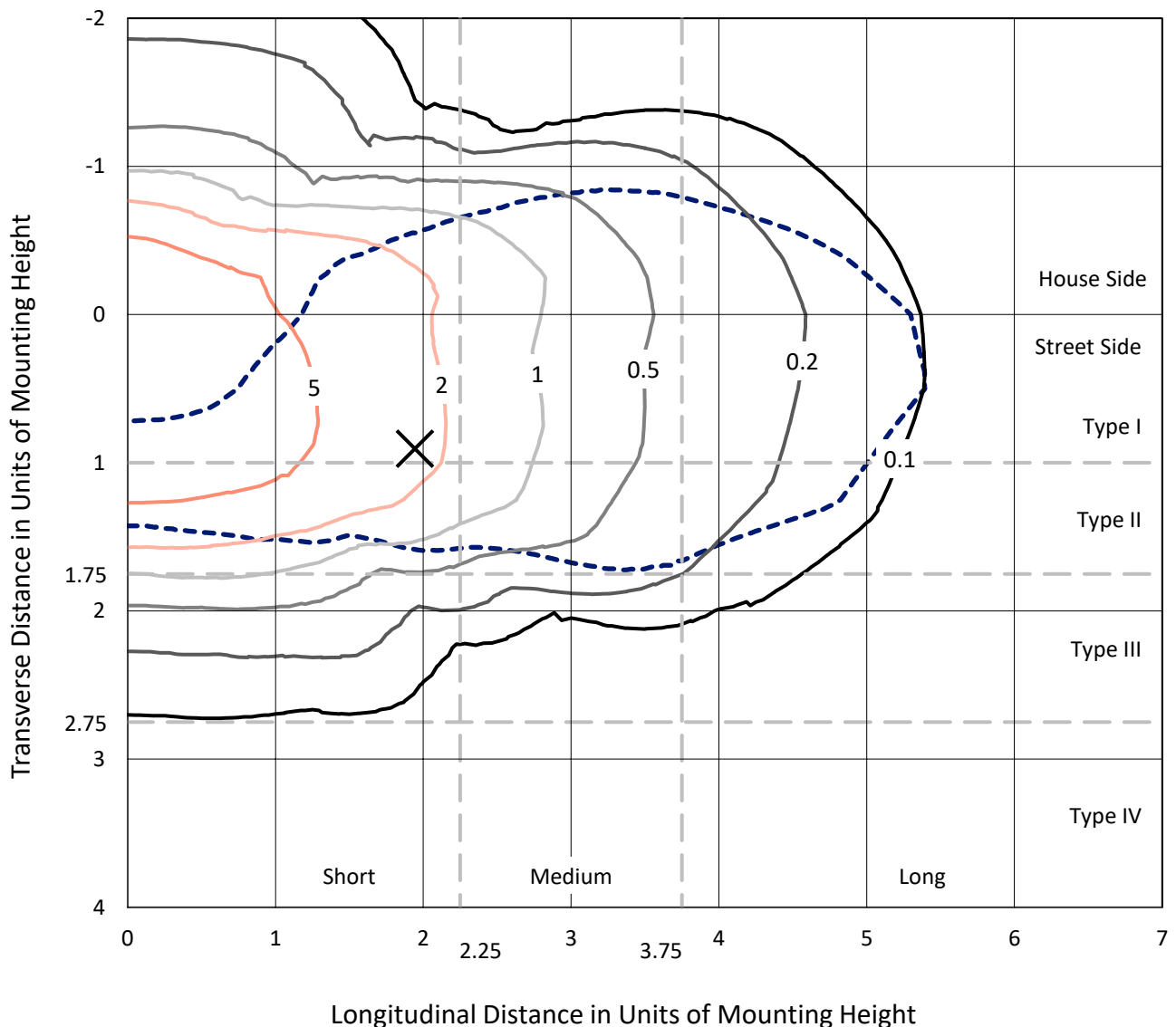
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

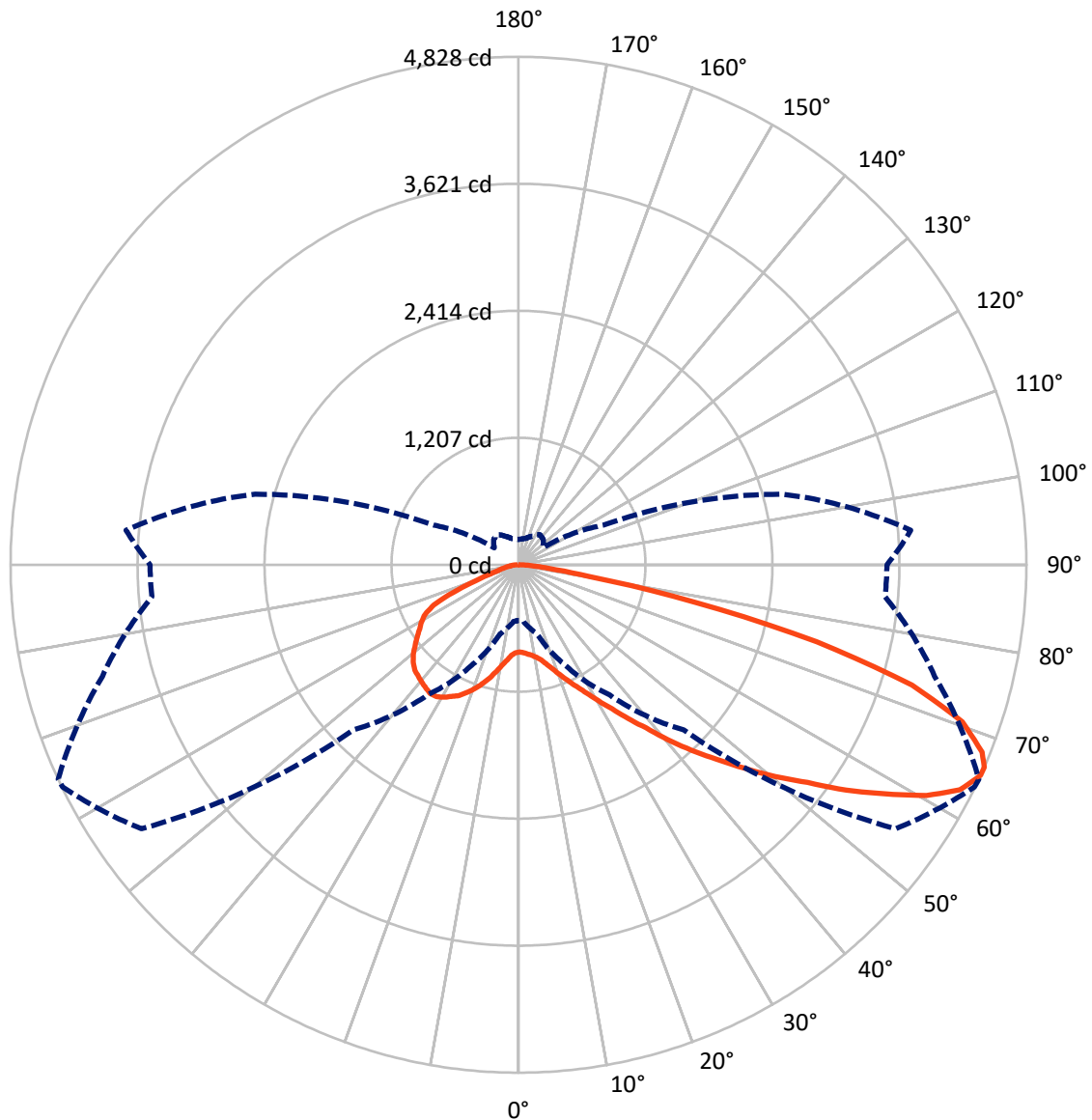
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2527.2   | 0.0    | 2527.2 |
|                    | % Fixture | 30.4     | 0.0    | 30.4   |
| <b>Street Side</b> | Lumens    | 5795.8   | 0.0    | 5795.8 |
|                    | % Fixture | 69.6     | 0.0    | 69.6   |
| <b>Total</b>       | Lumens    | 8323.0   | 0.0    | 8323.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.6   | 1.0       |
| 10°-20°   | 295.0  | 3.5       |
| 20°-30°   | 577.7  | 6.9       |
| 30°-40°   | 944.0  | 11.3      |
| 40°-50°   | 1498.3 | 18.0      |
| 50°-60°   | 1927.1 | 23.2      |
| 60°-70°   | 1737.9 | 20.9      |
| 70°-80°   | 1077.9 | 13.0      |
| 80°-90°   | 180.6  | 2.2       |
| 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°    | 8323.0 | 100.0     |
| 0°-180°   | 8323.0 | 100.0     |

**Coefficient of Utilization**

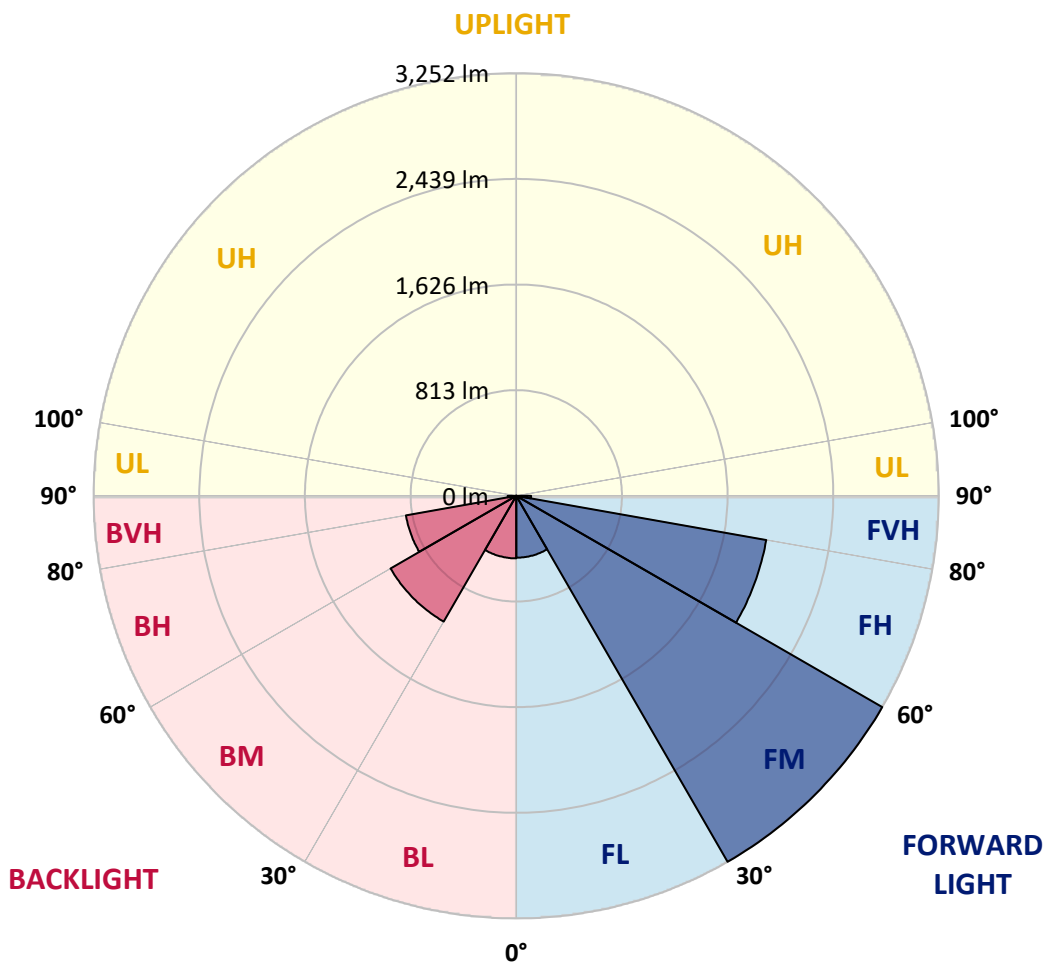


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 476.0  | 5.7       |                         |      |         |
| FM (30°-60°)   | 3252.2 | 39.1      |                         |      |         |
| FH (60°-80°)   | 1953.4 | 23.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 114.2  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 481.3  | 5.8       | B1/500                  |      |         |
| BM (30°-60°)   | 1117.2 | 13.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 862.3  | 10.4      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 66.4   | 0.8       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  |
| 2.5°  | 831.6  | 833.6  | 835.7  | 831.6  | 835.7  | 837.7  | 833.6  | 833.6  | 835.7  | 831.6  | 831.6  |
| 5°    | 825.6  | 827.6  | 831.6  | 833.6  | 841.7  | 845.8  | 847.8  | 847.8  | 849.8  | 847.8  | 849.8  |
| 7.5°  | 809.4  | 809.4  | 817.5  | 821.5  | 833.6  | 847.8  | 855.8  | 868.0  | 868.0  | 870.0  | 876.0  |
| 10°   | 825.6  | 825.6  | 831.6  | 837.7  | 847.8  | 859.9  | 872.0  | 886.1  | 890.2  | 904.3  | 912.4  |
| 12.5° | 849.8  | 853.8  | 861.9  | 870.0  | 882.1  | 896.2  | 906.3  | 920.4  | 922.5  | 936.6  | 952.7  |
| 15°   | 890.2  | 894.2  | 898.2  | 908.3  | 924.5  | 942.6  | 960.8  | 970.9  | 974.9  | 983.0  | 995.1  |
| 17.5° | 950.7  | 954.8  | 956.8  | 962.8  | 974.9  | 999.2  | 1025.4 | 1033.5 | 1037.5 | 1037.5 | 1047.6 |
| 20°   | 1053.7 | 1051.6 | 1047.6 | 1035.5 | 1035.5 | 1057.7 | 1094.0 | 1108.2 | 1112.2 | 1104.1 | 1098.1 |
| 22.5° | 1172.8 | 1170.7 | 1154.6 | 1140.5 | 1130.4 | 1134.4 | 1170.7 | 1195.0 | 1192.9 | 1176.8 | 1152.6 |
| 25°   | 1328.2 | 1332.2 | 1306.0 | 1269.6 | 1239.4 | 1231.3 | 1253.5 | 1277.7 | 1281.7 | 1251.5 | 1211.1 |
| 27.5° | 1513.9 | 1507.8 | 1493.7 | 1435.2 | 1376.6 | 1340.3 | 1352.4 | 1378.6 | 1380.7 | 1348.4 | 1283.8 |
| 30°   | 1731.9 | 1721.8 | 1685.5 | 1624.9 | 1534.1 | 1483.6 | 1473.5 | 1495.7 | 1501.8 | 1447.3 | 1354.4 |
| 32.5° | 1974.1 | 1964.0 | 1917.6 | 1824.7 | 1725.8 | 1641.0 | 1608.7 | 1639.0 | 1635.0 | 1572.4 | 1443.2 |
| 35°   | 2266.8 | 2264.8 | 2180.0 | 2064.9 | 1939.8 | 1826.7 | 1782.3 | 1782.3 | 1794.4 | 1701.6 | 1556.3 |
| 37.5° | 2658.4 | 2674.5 | 2549.4 | 2369.7 | 2194.1 | 2042.7 | 1968.0 | 1964.0 | 1966.0 | 1865.1 | 1683.4 |
| 40°   | 3011.6 | 3005.6 | 2932.9 | 2765.3 | 2509.0 | 2315.2 | 2204.2 | 2180.0 | 2186.0 | 2056.9 | 1848.9 |
| 42.5° | 3215.5 | 3221.5 | 3203.4 | 3130.7 | 2906.6 | 2662.4 | 2472.7 | 2408.1 | 2410.1 | 2248.6 | 2006.4 |
| 45°   | 3342.6 | 3348.7 | 3346.7 | 3383.0 | 3294.2 | 3064.1 | 2793.6 | 2644.2 | 2636.2 | 2466.6 | 2192.1 |
| 47.5° | 3415.3 | 3419.3 | 3445.6 | 3520.3 | 3592.9 | 3540.5 | 3148.9 | 2906.6 | 2890.5 | 2670.5 | 2377.8 |
| 50°   | 3334.6 | 3336.6 | 3441.5 | 3619.2 | 3796.8 | 3956.3 | 3512.2 | 3167.0 | 3163.0 | 2896.6 | 2559.5 |
| 52.5° | 2910.7 | 2947.0 | 3179.1 | 3550.5 | 3948.2 | 4251.0 | 3932.0 | 3473.8 | 3439.5 | 3110.5 | 2741.1 |
| 55°   | 2375.8 | 2391.9 | 2658.4 | 3130.7 | 3919.9 | 4432.6 | 4249.0 | 3804.9 | 3780.7 | 3348.7 | 2918.8 |
| 57.5° | 1855.0 | 1871.2 | 2188.1 | 2581.7 | 3488.0 | 4422.5 | 4473.0 | 4162.2 | 4107.7 | 3556.6 | 3096.4 |
| 60°   | 1197.0 | 1247.4 | 1614.8 | 2099.2 | 2823.9 | 4115.7 | 4586.0 | 4505.3 | 4454.8 | 3762.5 | 3247.8 |
| 62.5° | 813.5  | 821.5  | 1051.6 | 1556.3 | 2113.4 | 3344.7 | 4578.0 | 4717.2 | 4709.2 | 3968.4 | 3399.2 |
| 65°   | 528.8  | 541.0  | 680.2  | 1053.7 | 1511.9 | 2220.4 | 4376.1 | 4820.2 | 4828.3 | 4095.5 | 3498.1 |
| 66°   | 448.1  | 456.2  | 563.2  | 886.1  | 1324.1 | 1760.1 | 4198.5 | 4812.1 | 4828.3 | 4154.1 | 3528.3 |
| 67.5° | 389.6  | 395.6  | 450.1  | 654.0  | 1081.9 | 1265.6 | 3736.3 | 4705.1 | 4751.6 | 4208.6 | 3566.7 |
| 70°   | 335.1  | 343.1  | 393.6  | 446.1  | 773.1  | 738.8  | 2365.7 | 4430.6 | 4477.0 | 4234.8 | 3590.9 |
| 72.5° | 276.5  | 282.6  | 333.1  | 403.7  | 561.1  | 496.6  | 1043.6 | 3792.8 | 3909.8 | 4137.9 | 3552.6 |
| 75°   | 218.0  | 222.0  | 268.5  | 337.1  | 429.9  | 387.6  | 454.2  | 2781.5 | 2928.8 | 3647.4 | 3403.2 |
| 77.5° | 169.6  | 171.6  | 207.9  | 262.4  | 393.6  | 300.8  | 280.6  | 1354.4 | 1713.7 | 2817.8 | 2997.5 |
| 80°   | 117.1  | 121.1  | 153.4  | 197.8  | 288.6  | 238.2  | 187.7  | 528.8  | 672.2  | 1871.2 | 2272.8 |
| 82.5° | 76.7   | 78.7   | 105.0  | 149.4  | 191.8  | 228.1  | 123.1  | 256.3  | 282.6  | 861.9  | 985.0  |
| 85°   | 52.5   | 52.5   | 74.7   | 92.9   | 131.2  | 151.4  | 80.7   | 135.2  | 147.4  | 327.0  | 119.1  |
| 87.5° | 26.2   | 26.2   | 36.3   | 48.4   | 62.6   | 58.5   | 48.4   | 48.4   | 48.4   | 107.0  | 34.3   |
| 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°    | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  | 829.6  |
| 2.5°  | 833.6  | 833.6  | 835.7  | 837.7  | 839.7  | 839.7  | 841.7  | 841.7  | 839.7  | 841.7  | 843.7  |
| 5°    | 851.8  | 853.8  | 857.9  | 863.9  | 874.0  | 884.1  | 894.2  | 900.3  | 906.3  | 908.3  | 904.3  |
| 7.5°  | 880.1  | 884.1  | 898.2  | 914.4  | 930.5  | 954.8  | 968.9  | 977.0  | 981.0  | 985.0  | 981.0  |
| 10°   | 916.4  | 924.5  | 944.7  | 972.9  | 1001.2 | 1031.5 | 1047.6 | 1059.7 | 1061.7 | 1065.8 | 1061.7 |
| 12.5° | 958.8  | 972.9  | 1003.2 | 1043.6 | 1077.9 | 1108.2 | 1120.3 | 1112.2 | 1094.0 | 1086.0 | 1083.9 |
| 15°   | 1009.3 | 1023.4 | 1065.8 | 1116.2 | 1156.6 | 1170.7 | 1152.6 | 1126.3 | 1106.1 | 1104.1 | 1102.1 |
| 17.5° | 1053.7 | 1073.8 | 1132.4 | 1184.9 | 1223.2 | 1209.1 | 1160.6 | 1144.5 | 1138.4 | 1146.5 | 1144.5 |
| 20°   | 1110.2 | 1126.3 | 1184.9 | 1249.5 | 1269.6 | 1215.1 | 1180.8 | 1170.7 | 1164.7 | 1164.7 | 1160.6 |
| 22.5° | 1156.6 | 1168.7 | 1239.4 | 1310.0 | 1297.9 | 1219.2 | 1195.0 | 1174.8 | 1154.6 | 1152.6 | 1146.5 |
| 25°   | 1211.1 | 1215.1 | 1289.8 | 1366.5 | 1301.9 | 1223.2 | 1180.8 | 1146.5 | 1126.3 | 1120.3 | 1122.3 |
| 27.5° | 1261.6 | 1271.7 | 1336.2 | 1404.9 | 1291.8 | 1201.0 | 1132.4 | 1088.0 | 1057.7 | 1055.7 | 1055.7 |
| 30°   | 1326.2 | 1326.2 | 1384.7 | 1447.3 | 1269.6 | 1144.5 | 1053.7 | 989.1  | 964.8  | 962.8  | 958.8  |
| 32.5° | 1398.8 | 1386.7 | 1443.2 | 1477.5 | 1221.2 | 1067.8 | 946.7  | 874.0  | 835.7  | 827.6  | 821.5  |
| 35°   | 1499.7 | 1473.5 | 1513.9 | 1483.6 | 1172.8 | 958.8  | 811.4  | 728.7  | 700.4  | 688.3  | 688.3  |
| 37.5° | 1616.8 | 1578.5 | 1620.9 | 1465.4 | 1098.1 | 831.6  | 670.1  | 607.6  | 577.3  | 559.1  | 565.2  |
| 40°   | 1754.1 | 1705.6 | 1729.9 | 1445.2 | 1017.3 | 690.3  | 553.1  | 514.7  | 478.4  | 454.2  | 454.2  |
| 42.5° | 1915.6 | 1834.8 | 1853.0 | 1425.1 | 902.3  | 567.2  | 478.4  | 452.1  | 423.9  | 399.7  | 405.7  |
| 45°   | 2071.0 | 1992.3 | 1974.1 | 1404.9 | 781.2  | 484.4  | 448.1  | 429.9  | 403.7  | 375.4  | 375.4  |
| 47.5° | 2250.6 | 2149.7 | 2081.1 | 1368.5 | 662.1  | 458.2  | 456.2  | 429.9  | 379.5  | 339.1  | 335.1  |
| 50°   | 2420.2 | 2327.3 | 2178.0 | 1314.0 | 595.5  | 480.4  | 454.2  | 391.6  | 343.1  | 316.9  | 314.9  |
| 52.5° | 2599.8 | 2502.9 | 2256.7 | 1247.4 | 561.1  | 470.3  | 417.8  | 359.3  | 323.0  | 296.7  | 290.7  |
| 55°   | 2777.5 | 2727.0 | 2327.3 | 1182.8 | 506.6  | 438.0  | 387.6  | 339.1  | 300.8  | 276.5  | 272.5  |
| 57.5° | 2979.3 | 2959.1 | 2387.9 | 1118.3 | 421.9  | 397.6  | 365.3  | 325.0  | 288.6  | 270.5  | 268.5  |
| 60°   | 3154.9 | 3225.6 | 2460.6 | 1069.8 | 359.3  | 367.4  | 355.3  | 323.0  | 296.7  | 276.5  | 276.5  |
| 62.5° | 3340.6 | 3481.9 | 2525.1 | 1007.2 | 312.9  | 349.2  | 357.3  | 320.9  | 286.6  | 268.5  | 268.5  |
| 65°   | 3502.1 | 3744.3 | 2591.8 | 892.2  | 280.6  | 335.1  | 351.2  | 298.7  | 258.4  | 244.2  | 240.2  |
| 66°   | 3570.7 | 3819.0 | 2611.9 | 821.5  | 268.5  | 325.0  | 341.1  | 286.6  | 246.3  | 234.1  | 232.1  |
| 67.5° | 3651.5 | 3936.1 | 2636.2 | 670.1  | 250.3  | 302.8  | 318.9  | 268.5  | 226.1  | 218.0  | 214.0  |
| 70°   | 3764.5 | 3960.3 | 2622.0 | 438.0  | 218.0  | 260.4  | 284.6  | 240.2  | 201.9  | 195.8  | 189.7  |
| 72.5° | 3776.6 | 3794.8 | 2480.7 | 276.5  | 189.7  | 224.1  | 250.3  | 216.0  | 177.6  | 171.6  | 167.5  |
| 75°   | 3576.8 | 3362.8 | 2099.2 | 197.8  | 167.5  | 197.8  | 220.0  | 187.7  | 147.4  | 139.3  | 135.2  |
| 77.5° | 3054.0 | 2668.5 | 1509.8 | 147.4  | 145.3  | 169.6  | 183.7  | 163.5  | 123.1  | 117.1  | 115.1  |
| 80°   | 2143.7 | 1810.6 | 756.9  | 111.0  | 115.1  | 141.3  | 153.4  | 137.3  | 102.9  | 94.9   | 90.8   |
| 82.5° | 868.0  | 769.0  | 260.4  | 82.8   | 86.8   | 107.0  | 131.2  | 113.0  | 78.7   | 68.6   | 60.6   |
| 85°   | 98.9   | 167.5  | 113.0  | 56.5   | 58.5   | 72.7   | 88.8   | 68.6   | 46.4   | 38.4   | 32.3   |
| 87.5° | 20.2   | 36.3   | 40.4   | 22.2   | 20.2   | 28.3   | 40.4   | 24.2   | 16.1   | 6.1    | 8.1    |
| 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)