

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: P594862

Luminaire Tested: **ISS-PA1F-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-727-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9591 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

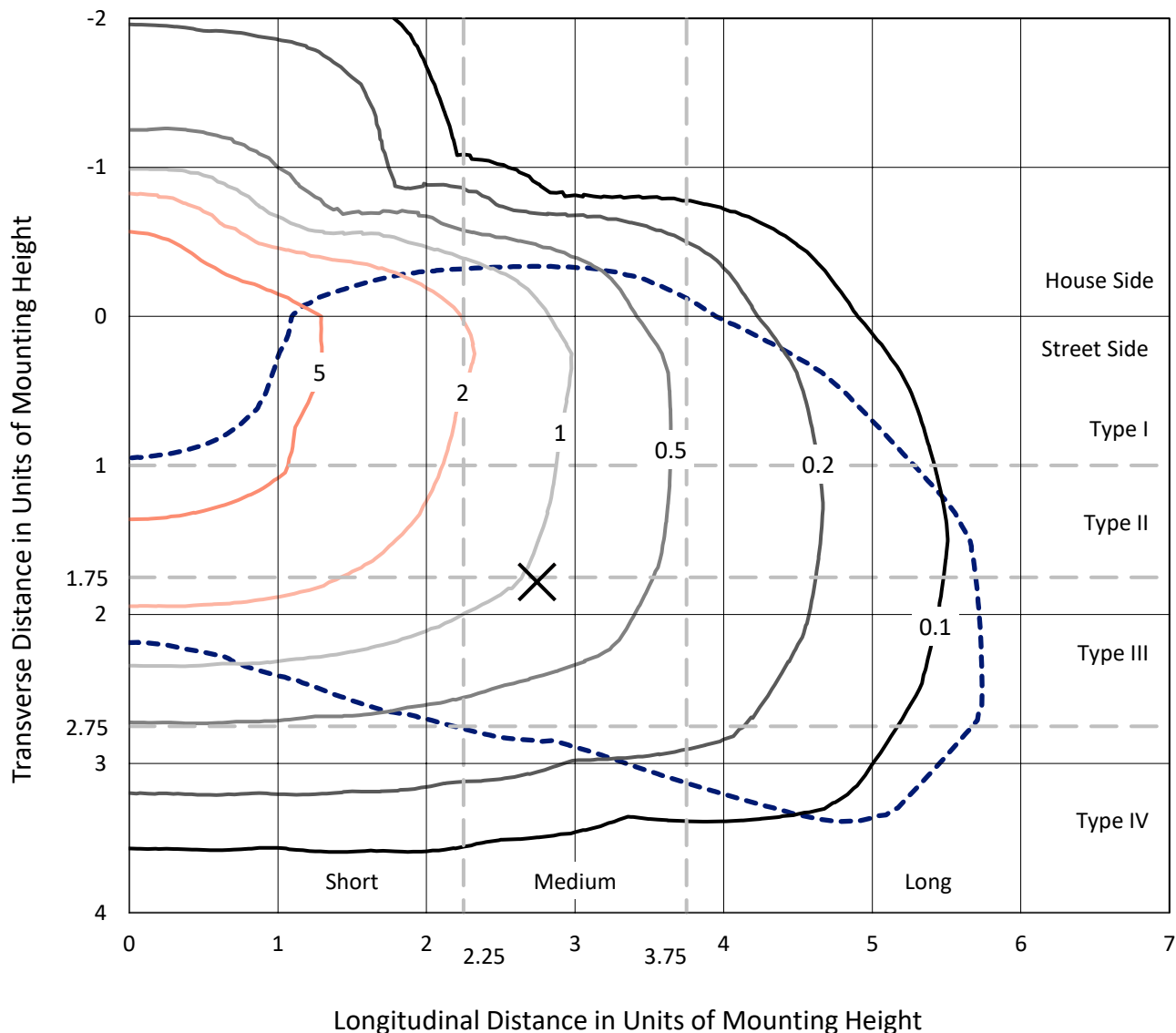
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

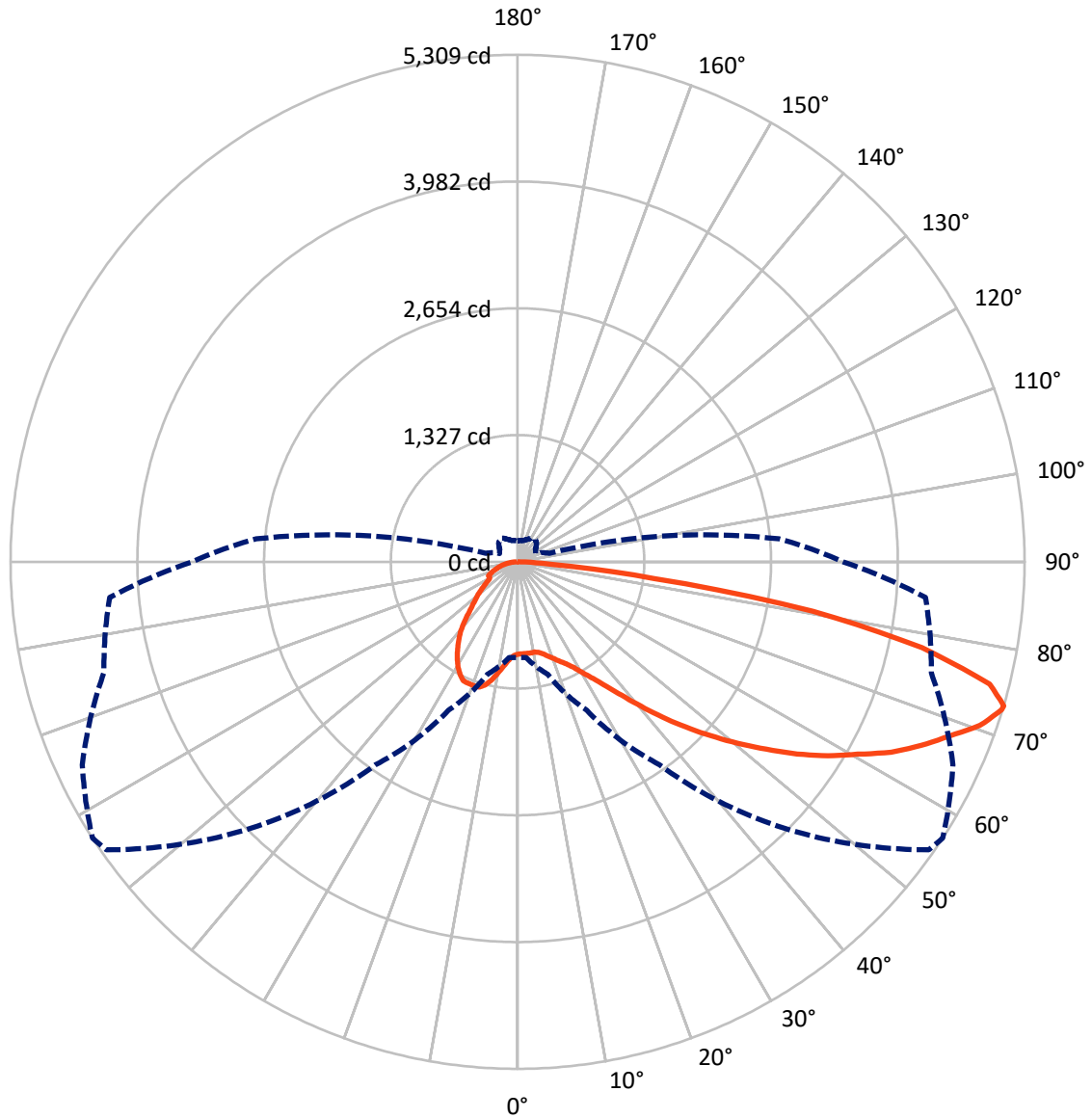
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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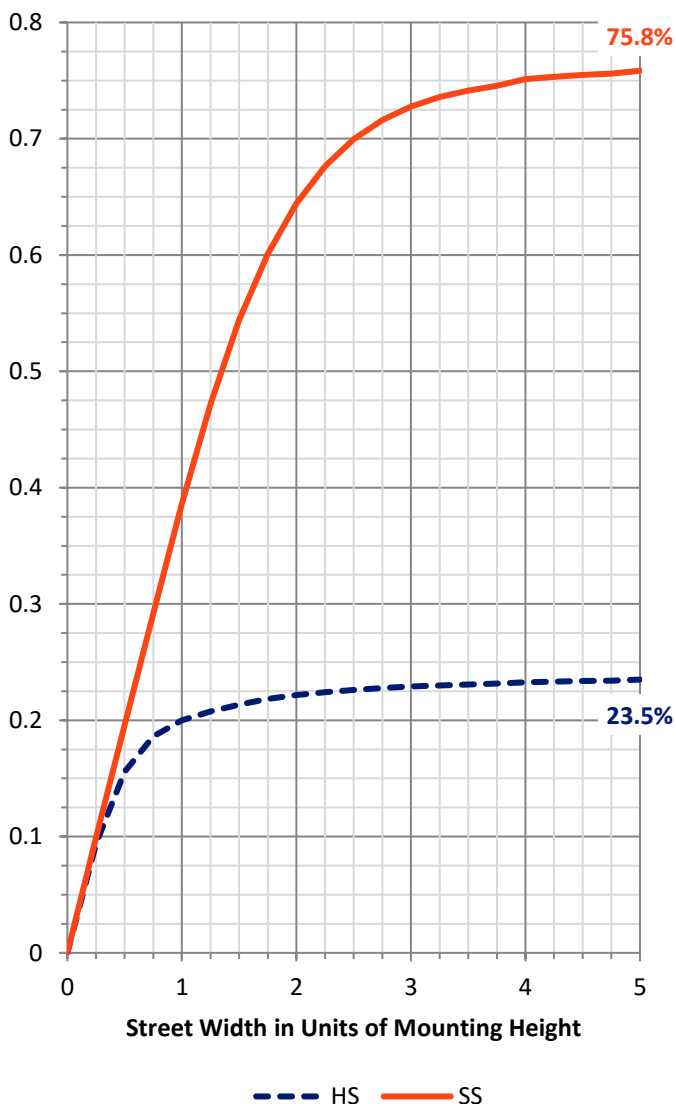
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2288.1   | 0.0    | 2288.1 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 7302.9   | 0.0    | 7302.9 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 9591.0   | 0.0    | 9591.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.4   | 1.0       |
| 10°-20°   | 317.3  | 3.3       |
| 20°-30°   | 585.7  | 6.1       |
| 30°-40°   | 904.5  | 9.4       |
| 40°-50°   | 1361.4 | 14.2      |
| 50°-60°   | 1992.6 | 20.8      |
| 60°-70°   | 2353.1 | 24.5      |
| 70°-80°   | 1684.7 | 17.6      |
| 80°-90°   | 295.2  | 3.1       |
| 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°    | 9591.0 | 100.0     |
| 0°-180°   | 9591.0 | 100.0     |

**Coefficient of Utilization**

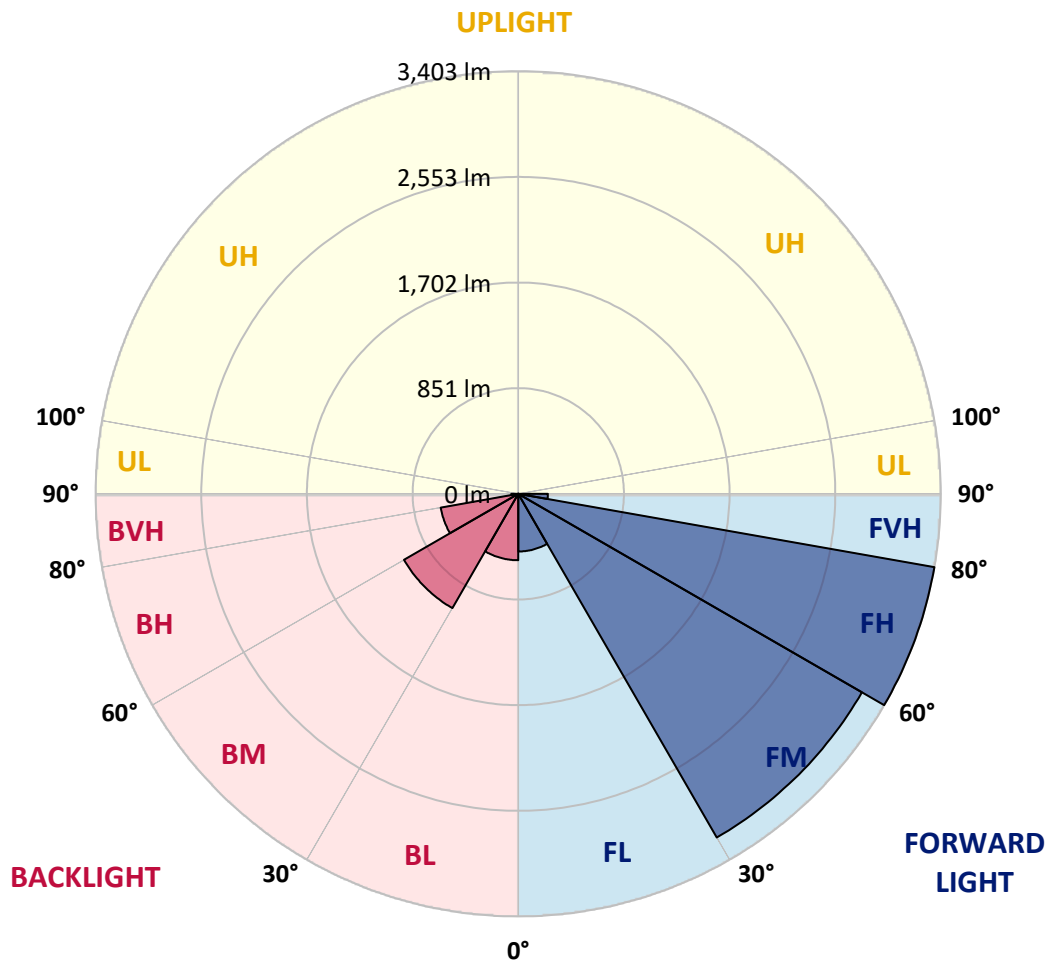


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 464.7  | 4.8       |                         |      |         |
| FM (30°-60°)   | 3196.0 | 33.3      |                         |      |         |
| FH (60°-80°)   | 3403.4 | 35.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 238.8  | 2.5       |                         |      | G3/500  |
| BL (0°-30°)    | 534.7  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1062.6 | 11.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 634.4  | 6.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 56.4   | 0.6       |                         |      | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  |
| 2.5°  | 954.5  | 959.2  | 956.9  | 959.2  | 966.3  | 961.6  | 961.6  | 963.9  | 966.3  | 963.9  | 968.6  |
| 5°    | 914.6  | 916.9  | 921.6  | 931.0  | 947.5  | 952.2  | 963.9  | 963.9  | 968.6  | 973.4  | 980.4  |
| 7.5°  | 848.7  | 853.4  | 862.8  | 872.3  | 900.5  | 928.7  | 959.2  | 963.9  | 980.4  | 992.2  | 996.9  |
| 10°   | 837.0  | 841.7  | 844.0  | 858.1  | 886.4  | 914.6  | 952.2  | 961.6  | 992.2  | 1011.0 | 1032.1 |
| 12.5° | 825.2  | 829.9  | 837.0  | 855.8  | 891.1  | 921.6  | 961.6  | 971.0  | 1008.6 | 1046.2 | 1072.1 |
| 15°   | 834.6  | 837.0  | 844.0  | 862.8  | 898.1  | 940.4  | 992.2  | 999.2  | 1041.5 | 1088.6 | 1128.5 |
| 17.5° | 858.1  | 860.5  | 858.1  | 874.6  | 907.5  | 956.9  | 1027.4 | 1039.2 | 1090.9 | 1137.9 | 1177.9 |
| 20°   | 912.2  | 914.6  | 905.2  | 905.2  | 928.7  | 978.1  | 1065.0 | 1081.5 | 1145.0 | 1196.7 | 1236.7 |
| 22.5° | 1029.8 | 1025.1 | 1001.6 | 971.0  | 971.0  | 1011.0 | 1107.4 | 1130.9 | 1210.8 | 1253.1 | 1288.4 |
| 25°   | 1196.7 | 1196.7 | 1159.1 | 1102.7 | 1065.0 | 1060.3 | 1156.7 | 1182.6 | 1276.6 | 1328.4 | 1349.5 |
| 27.5° | 1398.9 | 1401.2 | 1340.1 | 1264.9 | 1192.0 | 1156.7 | 1227.3 | 1253.1 | 1358.9 | 1413.0 | 1420.1 |
| 30°   | 1577.6 | 1579.9 | 1518.8 | 1448.3 | 1358.9 | 1281.3 | 1321.3 | 1349.5 | 1471.8 | 1514.1 | 1490.6 |
| 32.5° | 1756.3 | 1758.6 | 1716.3 | 1619.9 | 1525.9 | 1429.5 | 1441.2 | 1457.7 | 1582.3 | 1622.3 | 1584.6 |
| 35°   | 1911.4 | 1918.5 | 1876.2 | 1803.3 | 1704.5 | 1617.5 | 1596.4 | 1598.7 | 1711.6 | 1737.5 | 1688.1 |
| 37.5° | 2069.0 | 2069.0 | 2043.1 | 1974.9 | 1890.3 | 1793.9 | 1765.7 | 1772.7 | 1873.8 | 1899.7 | 1829.1 |
| 40°   | 2268.8 | 2278.2 | 2264.1 | 2179.5 | 2083.1 | 2003.1 | 1974.9 | 1984.3 | 2094.8 | 2080.7 | 2005.5 |
| 42.5° | 2511.0 | 2532.1 | 2508.6 | 2416.9 | 2313.5 | 2224.1 | 2224.1 | 2224.1 | 2318.2 | 2320.5 | 2207.7 |
| 45°   | 2821.3 | 2821.3 | 2797.8 | 2717.9 | 2581.5 | 2492.2 | 2461.6 | 2468.6 | 2550.9 | 2560.3 | 2428.7 |
| 47.5° | 3079.9 | 3103.4 | 3077.6 | 3018.8 | 2910.6 | 2826.0 | 2729.6 | 2717.9 | 2786.0 | 2786.0 | 2673.2 |
| 50°   | 3289.2 | 3331.5 | 3310.3 | 3336.2 | 3258.6 | 3216.3 | 3018.8 | 2985.9 | 3009.4 | 3032.9 | 2908.3 |
| 52.5° | 3463.2 | 3496.1 | 3489.0 | 3564.3 | 3601.9 | 3625.4 | 3312.7 | 3261.0 | 3279.8 | 3277.4 | 3164.6 |
| 55°   | 3474.9 | 3486.7 | 3592.5 | 3761.7 | 3909.9 | 4020.4 | 3608.9 | 3552.5 | 3533.7 | 3524.3 | 3437.3 |
| 57.5° | 3406.7 | 3413.8 | 3625.4 | 3825.2 | 4147.3 | 4274.3 | 3888.7 | 3832.3 | 3806.4 | 3773.5 | 3738.2 |
| 60°   | 3242.2 | 3277.4 | 3554.8 | 3862.8 | 4288.4 | 4471.8 | 4149.7 | 4090.9 | 4072.1 | 4001.6 | 4081.5 |
| 62.5° | 3032.9 | 3049.4 | 3326.8 | 3785.3 | 4307.2 | 4556.4 | 4424.7 | 4389.5 | 4330.7 | 4229.6 | 4387.1 |
| 65°   | 2736.7 | 2734.3 | 2978.8 | 3557.2 | 4210.8 | 4598.7 | 4657.5 | 4638.7 | 4565.8 | 4391.8 | 4659.9 |
| 67.5° | 2247.6 | 2301.7 | 2541.5 | 3152.8 | 3978.0 | 4641.0 | 4895.0 | 4871.5 | 4756.3 | 4537.6 | 4789.2 |
| 70°   | 1713.9 | 1746.9 | 2019.6 | 2546.2 | 3514.9 | 4525.8 | 5127.7 | 5134.8 | 4925.5 | 4568.2 | 4732.7 |
| 72.5° | 1093.3 | 1149.7 | 1366.0 | 1855.0 | 2814.3 | 4097.9 | 5266.4 | 5299.4 | 5019.6 | 4525.8 | 4382.4 |
| 73°   | 1001.6 | 1006.3 | 1217.9 | 1716.3 | 2595.6 | 3945.1 | 5257.0 | 5308.8 | 5029.0 | 4483.5 | 4286.0 |
| 75°   | 597.2  | 623.0  | 750.0  | 1140.3 | 1852.7 | 3169.3 | 5003.1 | 5106.6 | 4979.6 | 4295.4 | 3757.0 |
| 77.5° | 279.8  | 298.6  | 369.1  | 601.9  | 1008.6 | 1906.7 | 4206.1 | 4328.4 | 4413.0 | 3759.4 | 2863.6 |
| 80°   | 148.1  | 150.5  | 181.0  | 303.3  | 540.8  | 785.3  | 2931.8 | 3134.0 | 3253.9 | 2830.7 | 1925.5 |
| 82.5° | 124.6  | 124.6  | 141.1  | 195.1  | 345.6  | 305.6  | 1208.5 | 1438.9 | 1763.3 | 1394.2 | 757.1  |
| 85°   | 101.1  | 103.4  | 141.1  | 145.8  | 246.9  | 157.5  | 289.2  | 362.1  | 684.2  | 616.0  | 84.6   |
| 87.5° | 32.9   | 37.6   | 79.9   | 103.4  | 131.7  | 61.1   | 72.9   | 79.9   | 79.9   | 117.6  | 28.2   |
| 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°    | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  | 966.3  |
| 2.5°  | 971.0  | 971.0  | 973.4  | 975.7  | 980.4  | 980.4  | 985.1  | 987.5  | 992.2  | 994.5  | 987.5  |
| 5°    | 980.4  | 985.1  | 989.8  | 1003.9 | 1020.4 | 1034.5 | 1048.6 | 1060.3 | 1072.1 | 1079.1 | 1076.8 |
| 7.5°  | 1006.3 | 1013.3 | 1032.1 | 1058.0 | 1090.9 | 1112.1 | 1133.2 | 1154.4 | 1163.8 | 1168.5 | 1168.5 |
| 10°   | 1041.5 | 1055.6 | 1090.9 | 1133.2 | 1170.8 | 1203.8 | 1220.2 | 1234.3 | 1239.0 | 1243.7 | 1239.0 |
| 12.5° | 1090.9 | 1109.7 | 1163.8 | 1217.9 | 1260.2 | 1276.6 | 1274.3 | 1255.5 | 1229.6 | 1224.9 | 1220.2 |
| 15°   | 1154.4 | 1177.9 | 1239.0 | 1302.5 | 1335.4 | 1314.3 | 1260.2 | 1241.4 | 1236.7 | 1250.8 | 1246.1 |
| 17.5° | 1208.5 | 1236.7 | 1311.9 | 1377.7 | 1370.7 | 1297.8 | 1281.3 | 1290.7 | 1286.0 | 1288.4 | 1288.4 |
| 20°   | 1260.2 | 1300.2 | 1380.1 | 1424.8 | 1363.6 | 1316.6 | 1302.5 | 1290.7 | 1276.6 | 1281.3 | 1276.6 |
| 22.5° | 1326.0 | 1354.2 | 1445.9 | 1448.3 | 1354.2 | 1316.6 | 1286.0 | 1262.5 | 1257.8 | 1260.2 | 1262.5 |
| 25°   | 1377.7 | 1422.4 | 1502.3 | 1431.8 | 1354.2 | 1279.0 | 1236.7 | 1232.0 | 1234.3 | 1248.4 | 1243.7 |
| 27.5° | 1448.3 | 1492.9 | 1547.0 | 1422.4 | 1297.8 | 1217.9 | 1201.4 | 1199.1 | 1182.6 | 1187.3 | 1187.3 |
| 30°   | 1514.1 | 1568.2 | 1570.5 | 1422.4 | 1227.3 | 1166.1 | 1142.6 | 1100.3 | 1065.0 | 1072.1 | 1069.7 |
| 32.5° | 1603.4 | 1650.5 | 1575.2 | 1366.0 | 1147.3 | 1098.0 | 1034.5 | 968.6  | 952.2  | 961.6  | 963.9  |
| 35°   | 1706.9 | 1744.5 | 1579.9 | 1271.9 | 1067.4 | 1001.6 | 886.4  | 848.7  | 846.4  | 853.4  | 860.5  |
| 37.5° | 1843.3 | 1864.4 | 1615.2 | 1163.8 | 989.8  | 851.1  | 761.8  | 752.3  | 731.2  | 717.1  | 719.4  |
| 40°   | 2010.2 | 1984.3 | 1683.4 | 1067.4 | 898.1  | 714.7  | 677.1  | 651.3  | 611.3  | 571.3  | 578.4  |
| 42.5° | 2195.9 | 2123.0 | 1704.5 | 989.8  | 773.5  | 630.1  | 594.8  | 554.9  | 505.5  | 463.2  | 460.8  |
| 45°   | 2395.8 | 2278.2 | 1685.7 | 928.7  | 648.9  | 566.6  | 529.0  | 482.0  | 423.2  | 387.9  | 387.9  |
| 47.5° | 2633.2 | 2426.3 | 1627.0 | 879.3  | 561.9  | 510.2  | 463.2  | 416.1  | 376.2  | 343.3  | 343.3  |
| 50°   | 2894.2 | 2598.0 | 1584.6 | 792.3  | 500.8  | 456.1  | 409.1  | 371.5  | 340.9  | 315.0  | 315.0  |
| 52.5° | 3169.3 | 2760.2 | 1549.4 | 665.4  | 446.7  | 406.7  | 373.8  | 343.3  | 317.4  | 284.5  | 279.8  |
| 55°   | 3449.0 | 2915.3 | 1565.8 | 543.1  | 397.3  | 371.5  | 350.3  | 319.7  | 310.3  | 303.3  | 298.6  |
| 57.5° | 3740.6 | 3084.6 | 1605.8 | 444.4  | 355.0  | 352.7  | 343.3  | 364.4  | 385.6  | 371.5  | 364.4  |
| 60°   | 3968.6 | 3216.3 | 1610.5 | 373.8  | 329.2  | 371.5  | 418.5  | 425.5  | 369.1  | 336.2  | 333.9  |
| 62.5° | 4149.7 | 3340.9 | 1500.0 | 324.5  | 336.2  | 437.3  | 446.7  | 376.2  | 319.7  | 305.6  | 305.6  |
| 65°   | 4243.7 | 3385.6 | 1206.1 | 296.2  | 350.3  | 418.5  | 404.4  | 338.6  | 298.6  | 296.2  | 296.2  |
| 67.5° | 4196.7 | 3350.3 | 844.0  | 265.7  | 310.3  | 362.1  | 362.1  | 310.3  | 275.1  | 286.8  | 282.1  |
| 70°   | 3971.0 | 3176.3 | 557.2  | 239.8  | 272.7  | 326.8  | 336.2  | 289.2  | 256.3  | 263.3  | 256.3  |
| 72.5° | 3500.8 | 2866.0 | 366.8  | 211.6  | 235.1  | 289.2  | 312.7  | 265.7  | 235.1  | 232.8  | 225.7  |
| 73°   | 3409.1 | 2748.4 | 345.6  | 206.9  | 228.1  | 279.8  | 305.6  | 261.0  | 230.4  | 223.4  | 218.7  |
| 75°   | 2891.8 | 2292.3 | 261.0  | 185.7  | 202.2  | 251.6  | 284.5  | 244.5  | 211.6  | 202.2  | 197.5  |
| 77.5° | 2106.6 | 1589.3 | 195.1  | 157.5  | 169.3  | 218.7  | 251.6  | 223.4  | 188.1  | 176.3  | 174.0  |
| 80°   | 1314.3 | 865.2  | 145.8  | 127.0  | 134.0  | 183.4  | 221.0  | 199.8  | 162.2  | 148.1  | 145.8  |
| 82.5° | 514.9  | 282.1  | 101.1  | 94.0   | 98.7   | 138.7  | 185.7  | 174.0  | 136.4  | 124.6  | 117.6  |
| 85°   | 84.6   | 96.4   | 65.8   | 63.5   | 63.5   | 98.7   | 141.1  | 134.0  | 91.7   | 79.9   | 70.5   |
| 87.5° | 23.5   | 44.7   | 25.9   | 23.5   | 23.5   | 42.3   | 77.6   | 61.1   | 37.6   | 30.6   | 28.2   |
| 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)