

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: STREETWORKS

Report Number: P156765

Luminaire Tested: **TMU-F04-LED-E-U-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156765  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-F04-LED-E-U-T4  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9979.1 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

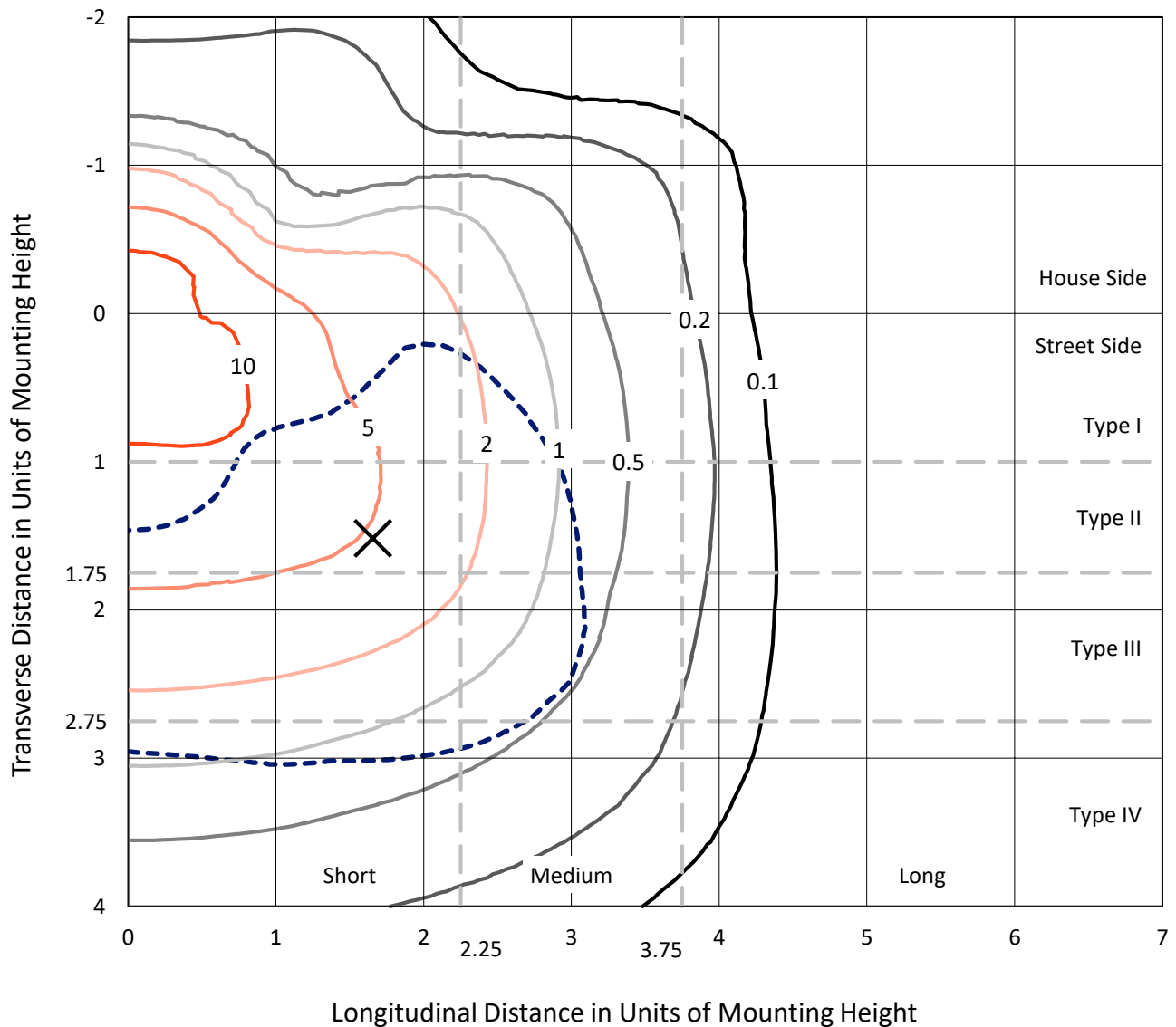


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

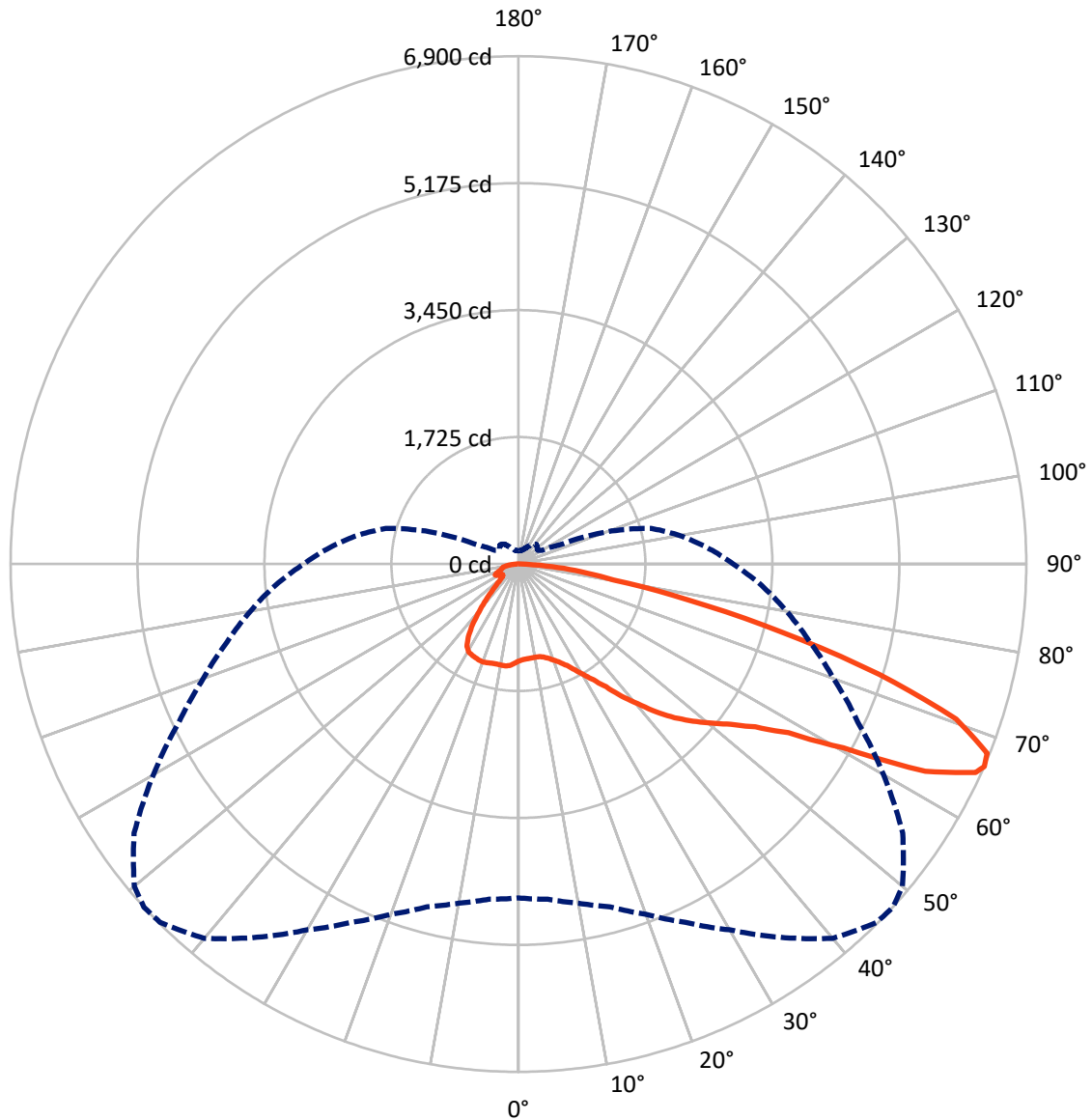


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2129.3   | 0.0    | 2129.3 |
|                    | % Fixture | 21.3     | 0.0    | 21.3   |
| <b>Street Side</b> | Lumens    | 7849.8   | 0.0    | 7849.8 |
|                    | % Fixture | 78.7     | 0.0    | 78.7   |
| <b>Total</b>       | Lumens    | 9979.1   | 0.0    | 9979.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.7  | 1.3       |
| 10°-20°   | 387.8  | 3.9       |
| 20°-30°   | 668.0  | 6.7       |
| 30°-40°   | 1010.6 | 10.1      |
| 40°-50°   | 1309.8 | 13.1      |
| 50°-60°   | 1805.9 | 18.1      |
| 60°-70°   | 2805.7 | 28.1      |
| 70°-80°   | 1631.5 | 16.3      |
| 80°-90°   | 232.0  | 2.3       |
| 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°    | 9979.1 | 100.0     |
| 0°-180°   | 9979.1 | 100.0     |

**Coefficient of Utilization**



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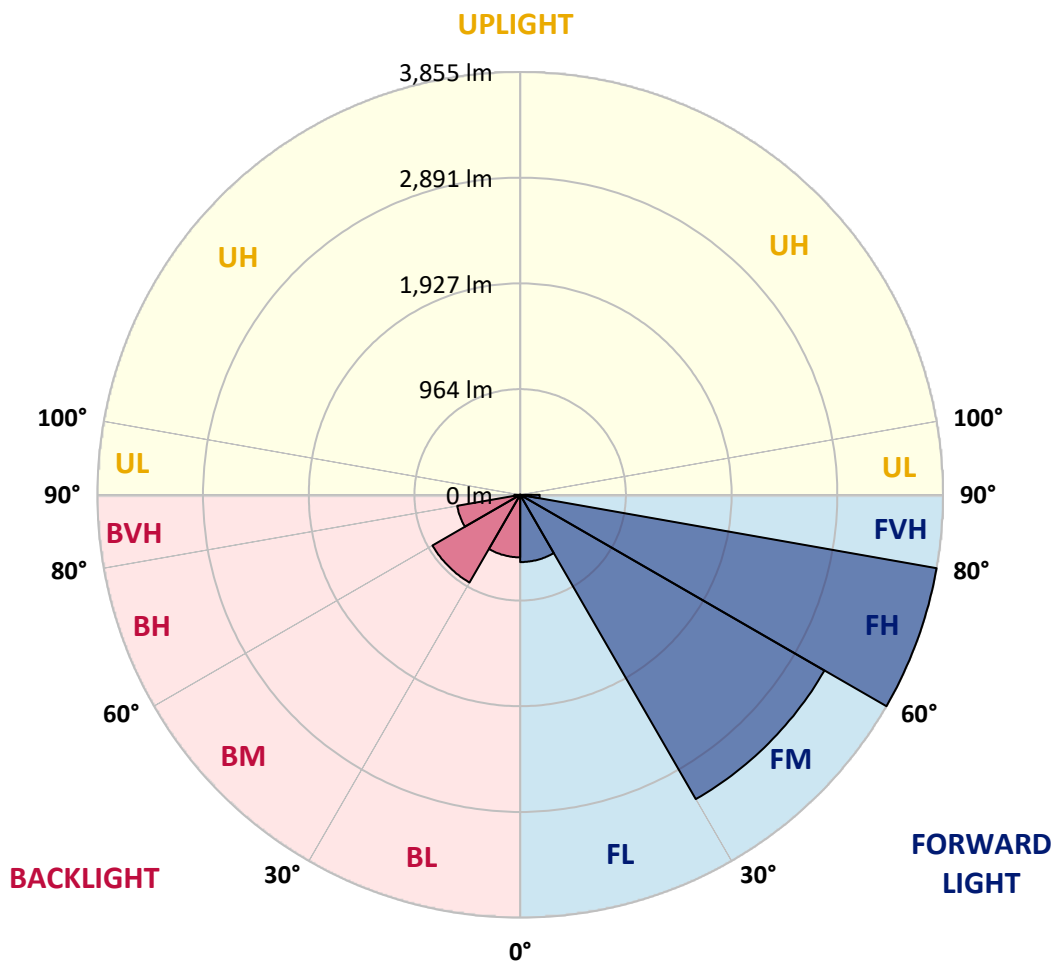
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 613.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 3203.3 | 32.1      |                         |      |         |
| FH   | (60°-80°)   | 3854.9 | 38.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 178.1  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 570.0  | 5.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 923.0  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 582.3  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 54.0   | 0.5       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 |
| 2.5°  | 1291.1 | 1295.5 | 1292.2 | 1293.3 | 1293.3 | 1294.4 | 1294.4 | 1295.5 | 1294.4 | 1297.7 | 1299.9 |
| 5°    | 1268.0 | 1270.2 | 1269.1 | 1271.3 | 1273.5 | 1277.9 | 1276.8 | 1282.3 | 1283.4 | 1286.7 | 1292.2 |
| 7.5°  | 1259.2 | 1257.0 | 1258.1 | 1261.4 | 1263.6 | 1265.8 | 1268.0 | 1272.4 | 1275.7 | 1283.4 | 1287.8 |
| 10°   | 1268.0 | 1266.9 | 1268.0 | 1270.2 | 1270.2 | 1271.3 | 1269.1 | 1273.5 | 1275.7 | 1282.3 | 1286.7 |
| 12.5° | 1304.3 | 1304.3 | 1302.1 | 1302.1 | 1299.9 | 1297.7 | 1292.2 | 1288.9 | 1287.8 | 1288.9 | 1291.1 |
| 15°   | 1362.7 | 1360.5 | 1356.1 | 1352.8 | 1348.4 | 1340.7 | 1332.9 | 1326.3 | 1321.9 | 1315.3 | 1313.1 |
| 17.5° | 1419.9 | 1416.6 | 1412.2 | 1407.8 | 1402.3 | 1394.6 | 1382.5 | 1374.8 | 1362.7 | 1355.0 | 1350.6 |
| 20°   | 1485.9 | 1479.3 | 1473.8 | 1468.3 | 1457.3 | 1455.1 | 1443.0 | 1429.8 | 1415.5 | 1397.9 | 1395.7 |
| 22.5° | 1571.8 | 1560.8 | 1554.2 | 1550.9 | 1539.9 | 1536.6 | 1516.8 | 1498.1 | 1480.4 | 1457.3 | 1451.8 |
| 25°   | 1658.8 | 1647.7 | 1644.4 | 1640.0 | 1632.3 | 1627.9 | 1609.2 | 1588.3 | 1565.2 | 1533.3 | 1526.7 |
| 27.5° | 1743.5 | 1744.6 | 1735.8 | 1739.1 | 1736.9 | 1729.2 | 1710.5 | 1689.6 | 1672.0 | 1634.5 | 1626.8 |
| 30°   | 1849.2 | 1842.6 | 1838.2 | 1844.8 | 1837.1 | 1838.2 | 1821.7 | 1810.7 | 1782.0 | 1760.0 | 1744.6 |
| 32.5° | 1959.2 | 1958.1 | 1964.7 | 1969.2 | 1968.1 | 1965.9 | 1952.6 | 1941.6 | 1916.3 | 1884.4 | 1877.8 |
| 35°   | 2110.0 | 2116.6 | 2122.1 | 2142.0 | 2142.0 | 2156.3 | 2143.1 | 2129.9 | 2100.1 | 2061.6 | 2048.4 |
| 37.5° | 2212.4 | 2214.6 | 2236.6 | 2263.0 | 2296.1 | 2326.9 | 2335.7 | 2339.0 | 2326.9 | 2298.3 | 2278.4 |
| 40°   | 2306.0 | 2310.4 | 2345.6 | 2386.3 | 2434.7 | 2495.3 | 2531.6 | 2548.1 | 2551.4 | 2538.2 | 2495.3 |
| 42.5° | 2399.5 | 2406.1 | 2442.5 | 2501.9 | 2569.0 | 2646.1 | 2709.9 | 2750.6 | 2773.8 | 2773.8 | 2748.4 |
| 45°   | 2508.5 | 2517.3 | 2556.9 | 2621.9 | 2700.0 | 2796.9 | 2884.9 | 2963.1 | 3000.5 | 3002.7 | 2978.5 |
| 47.5° | 2637.3 | 2645.0 | 2691.2 | 2757.3 | 2837.6 | 2935.6 | 3046.7 | 3135.9 | 3205.2 | 3209.6 | 3189.8 |
| 50°   | 2803.5 | 2814.5 | 2853.0 | 2912.5 | 2995.0 | 3094.1 | 3205.2 | 3329.6 | 3402.3 | 3419.9 | 3399.0 |
| 52.5° | 3023.6 | 3025.8 | 3057.7 | 3112.8 | 3193.1 | 3287.8 | 3405.6 | 3541.0 | 3636.7 | 3651.0 | 3616.9 |
| 55°   | 3327.4 | 3324.1 | 3345.0 | 3404.5 | 3465.0 | 3538.8 | 3660.9 | 3812.8 | 3919.6 | 3941.6 | 3906.4 |
| 57.5° | 3740.2 | 3736.9 | 3754.5 | 3768.8 | 3882.2 | 3953.7 | 4073.7 | 4219.0 | 4322.4 | 4386.3 | 4325.8 |
| 60°   | 4379.7 | 4376.4 | 4405.0 | 4488.7 | 4573.4 | 4678.0 | 4794.6 | 4968.6 | 5113.9 | 5132.6 | 5073.1 |
| 62.5° | 4843.1 | 4859.6 | 4922.3 | 5020.3 | 5192.0 | 5396.7 | 5610.3 | 5839.2 | 6137.5 | 6232.2 | 6203.5 |
| 65°   | 4681.3 | 4714.3 | 4801.3 | 4949.8 | 5178.8 | 5461.7 | 5796.3 | 6211.2 | 6610.8 | 6834.2 | 6827.6 |
| 66°   | 4536.0 | 4572.3 | 4679.1 | 4822.2 | 5064.3 | 5373.6 | 5739.0 | 6191.4 | 6638.3 | 6884.9 | 6900.3 |
| 67.5° | 4271.8 | 4312.5 | 4417.1 | 4586.6 | 4822.2 | 5151.3 | 5544.2 | 6036.2 | 6541.5 | 6828.7 | 6869.5 |
| 70°   | 3757.8 | 3804.0 | 3880.0 | 4019.8 | 4252.0 | 4545.9 | 4959.8 | 5400.0 | 5929.5 | 6258.6 | 6308.1 |
| 72.5° | 3141.4 | 3182.1 | 3266.9 | 3381.4 | 3571.8 | 3756.7 | 4081.4 | 4406.1 | 4784.7 | 5160.1 | 5123.8 |
| 75°   | 2255.3 | 2272.9 | 2323.6 | 2448.0 | 2550.3 | 2716.5 | 2977.4 | 3243.8 | 3502.4 | 3674.1 | 3698.4 |
| 77.5° | 1172.2 | 1218.5 | 1290.0 | 1427.6 | 1538.8 | 1688.5 | 1858.0 | 2058.3 | 2247.6 | 2405.0 | 2362.1 |
| 80°   | 767.2  | 787.0  | 850.8  | 921.3  | 1002.7 | 1098.5 | 1211.9 | 1286.7 | 1310.9 | 1301.0 | 1310.9 |
| 82.5° | 442.5  | 478.8  | 563.6  | 617.5  | 678.0  | 711.1  | 801.3  | 887.2  | 935.6  | 875.1  | 853.0  |
| 85°   | 56.1   | 72.6   | 228.9  | 288.4  | 330.2  | 379.7  | 407.3  | 459.0  | 428.2  | 383.0  | 466.7  |
| 87.5° | 12.1   | 11.0   | 15.4   | 33.0   | 34.1   | 28.6   | 53.9   | 57.2   | 35.2   | 17.6   | 22.0   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 |
| 2.5°  | 1302.1 | 1303.2 | 1305.4 | 1308.7 | 1310.9 | 1313.1 | 1315.3 | 1318.6 | 1320.8 | 1323.0 | 1327.4 |
| 5°    | 1296.6 | 1301.0 | 1305.4 | 1309.8 | 1315.3 | 1324.1 | 1329.6 | 1334.0 | 1338.5 | 1347.3 | 1350.6 |
| 7.5°  | 1293.3 | 1301.0 | 1307.6 | 1315.3 | 1324.1 | 1331.8 | 1341.8 | 1347.3 | 1353.9 | 1359.4 | 1366.0 |
| 10°   | 1291.1 | 1302.1 | 1308.7 | 1319.7 | 1329.6 | 1337.4 | 1348.4 | 1355.0 | 1362.7 | 1369.3 | 1372.6 |
| 12.5° | 1295.5 | 1301.0 | 1307.6 | 1318.6 | 1330.7 | 1341.8 | 1353.9 | 1359.4 | 1366.0 | 1371.5 | 1372.6 |
| 15°   | 1314.2 | 1314.2 | 1315.3 | 1324.1 | 1336.2 | 1345.1 | 1355.0 | 1360.5 | 1363.8 | 1367.1 | 1367.1 |
| 17.5° | 1348.4 | 1340.7 | 1335.1 | 1336.2 | 1344.0 | 1349.5 | 1355.0 | 1355.0 | 1352.8 | 1351.7 | 1349.5 |
| 20°   | 1388.0 | 1378.1 | 1367.1 | 1359.4 | 1357.2 | 1352.8 | 1349.5 | 1338.5 | 1329.6 | 1321.9 | 1316.4 |
| 22.5° | 1445.2 | 1429.8 | 1414.4 | 1400.1 | 1386.9 | 1370.4 | 1351.7 | 1329.6 | 1308.7 | 1294.4 | 1285.6 |
| 25°   | 1515.7 | 1503.6 | 1484.8 | 1462.8 | 1446.3 | 1415.5 | 1391.3 | 1359.4 | 1332.9 | 1314.2 | 1298.8 |
| 27.5° | 1615.8 | 1601.5 | 1583.9 | 1564.1 | 1539.9 | 1505.8 | 1476.0 | 1438.6 | 1406.7 | 1379.2 | 1359.4 |
| 30°   | 1740.2 | 1721.5 | 1708.3 | 1684.1 | 1667.6 | 1629.0 | 1599.3 | 1553.1 | 1491.4 | 1447.4 | 1419.9 |
| 32.5° | 1867.9 | 1847.0 | 1836.0 | 1817.3 | 1798.5 | 1775.4 | 1730.3 | 1658.8 | 1579.5 | 1508.0 | 1460.6 |
| 35°   | 2038.5 | 2016.5 | 1996.7 | 1980.2 | 1952.6 | 1909.7 | 1870.1 | 1784.2 | 1675.3 | 1575.1 | 1495.9 |
| 37.5° | 2253.1 | 2216.8 | 2167.3 | 2125.5 | 2077.0 | 2015.4 | 1954.8 | 1866.8 | 1742.4 | 1612.5 | 1506.9 |
| 40°   | 2482.1 | 2418.2 | 2347.8 | 2269.6 | 2186.0 | 2096.8 | 2027.5 | 1938.3 | 1798.5 | 1644.4 | 1499.2 |
| 42.5° | 2720.9 | 2619.7 | 2521.7 | 2411.6 | 2295.0 | 2189.3 | 2099.0 | 2001.1 | 1840.4 | 1653.3 | 1468.3 |
| 45°   | 2957.6 | 2844.2 | 2695.6 | 2551.4 | 2403.9 | 2272.9 | 2171.7 | 2061.6 | 1878.9 | 1656.6 | 1427.6 |
| 47.5° | 3153.5 | 3036.8 | 2867.3 | 2686.8 | 2511.8 | 2363.2 | 2244.3 | 2125.5 | 1930.6 | 1679.7 | 1417.7 |
| 50°   | 3360.4 | 3218.4 | 3030.2 | 2816.7 | 2618.6 | 2452.4 | 2325.8 | 2202.5 | 2003.3 | 1739.1 | 1449.6 |
| 52.5° | 3586.1 | 3423.2 | 3203.0 | 2964.2 | 2747.3 | 2561.3 | 2423.7 | 2297.2 | 2095.7 | 1822.8 | 1510.2 |
| 55°   | 3861.3 | 3662.0 | 3423.2 | 3153.5 | 2921.3 | 2715.4 | 2563.5 | 2413.8 | 2205.8 | 1921.8 | 1586.1 |
| 57.5° | 4281.7 | 4037.4 | 3768.8 | 3461.7 | 3204.1 | 2960.9 | 2779.3 | 2606.5 | 2376.4 | 2069.3 | 1689.6 |
| 60°   | 5042.3 | 4781.4 | 4432.5 | 4060.5 | 3757.8 | 3473.8 | 3207.4 | 2992.8 | 2709.9 | 2359.9 | 1918.5 |
| 62.5° | 6132.0 | 5785.3 | 5319.7 | 4799.1 | 4402.8 | 3993.3 | 3692.8 | 3373.6 | 3022.5 | 2645.0 | 2188.2 |
| 65°   | 6737.4 | 6316.9 | 5693.9 | 5089.6 | 4580.0 | 4135.3 | 3753.4 | 3383.6 | 2993.9 | 2632.9 | 2250.9 |
| 66°   | 6812.2 | 6374.2 | 5726.9 | 5090.7 | 4555.8 | 4099.0 | 3697.3 | 3314.2 | 2915.8 | 2571.2 | 2224.5 |
| 67.5° | 6781.4 | 6333.4 | 5666.4 | 4995.0 | 4451.2 | 3960.3 | 3545.4 | 3148.0 | 2750.6 | 2429.2 | 2136.5 |
| 70°   | 6276.2 | 5851.3 | 5196.4 | 4545.9 | 4029.7 | 3545.4 | 3149.1 | 2758.4 | 2394.0 | 2118.8 | 1903.1 |
| 72.5° | 5211.8 | 4848.6 | 4279.5 | 3768.8 | 3363.7 | 2964.2 | 2628.5 | 2255.3 | 1947.1 | 1743.5 | 1615.8 |
| 75°   | 3762.2 | 3542.1 | 3023.6 | 2730.8 | 2375.3 | 2110.0 | 1784.2 | 1563.0 | 1341.8 | 1242.7 | 1220.7 |
| 77.5° | 2376.4 | 2080.3 | 1751.2 | 1441.9 | 1185.5 | 982.9  | 765.0  | 649.4  | 541.5  | 530.5  | 640.6  |
| 80°   | 1203.1 | 1083.1 | 834.3  | 664.8  | 559.2  | 452.4  | 357.7  | 270.8  | 189.3  | 227.8  | 273.0  |
| 82.5° | 788.1  | 657.1  | 515.1  | 423.8  | 368.7  | 306.0  | 237.8  | 165.1  | 121.1  | 136.5  | 187.1  |
| 85°   | 426.0  | 363.2  | 292.8  | 231.1  | 187.1  | 167.3  | 112.3  | 79.3   | 78.1   | 83.7   | 106.8  |
| 87.5° | 30.8   | 30.8   | 24.2   | 22.0   | 26.4   | 22.0   | 19.8   | 19.8   | 18.7   | 19.8   | 26.4   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 |
| 2.5°  | 1329.6 | 1332.9 | 1334.0 | 1339.6 | 1342.9 | 1345.1 | 1347.3 | 1347.3 | 1348.4 | 1351.7 | 1352.8 |
| 5°    | 1355.0 | 1360.5 | 1367.1 | 1371.5 | 1373.7 | 1380.3 | 1382.5 | 1382.5 | 1384.7 | 1389.1 | 1392.4 |
| 7.5°  | 1370.4 | 1378.1 | 1384.7 | 1386.9 | 1391.3 | 1393.5 | 1396.8 | 1399.0 | 1399.0 | 1403.4 | 1405.6 |
| 10°   | 1375.9 | 1380.3 | 1386.9 | 1386.9 | 1391.3 | 1391.3 | 1394.6 | 1395.7 | 1395.7 | 1400.1 | 1403.4 |
| 12.5° | 1375.9 | 1378.1 | 1383.6 | 1383.6 | 1386.9 | 1388.0 | 1392.4 | 1395.7 | 1396.8 | 1402.3 | 1406.7 |
| 15°   | 1369.3 | 1371.5 | 1375.9 | 1377.0 | 1384.7 | 1389.1 | 1399.0 | 1405.6 | 1405.6 | 1411.1 | 1413.3 |
| 17.5° | 1350.6 | 1356.1 | 1364.9 | 1373.7 | 1388.0 | 1397.9 | 1410.0 | 1415.5 | 1411.1 | 1407.8 | 1404.5 |
| 20°   | 1319.7 | 1329.6 | 1350.6 | 1372.6 | 1397.9 | 1411.1 | 1417.7 | 1412.2 | 1396.8 | 1381.4 | 1371.5 |
| 22.5° | 1288.9 | 1308.7 | 1344.0 | 1377.0 | 1405.6 | 1414.4 | 1411.1 | 1391.3 | 1366.0 | 1347.3 | 1334.0 |
| 25°   | 1303.2 | 1326.3 | 1360.5 | 1390.2 | 1408.9 | 1406.7 | 1393.5 | 1366.0 | 1338.5 | 1314.2 | 1292.2 |
| 27.5° | 1362.7 | 1388.0 | 1406.7 | 1416.6 | 1414.4 | 1399.0 | 1378.1 | 1347.3 | 1314.2 | 1282.3 | 1251.5 |
| 30°   | 1418.8 | 1432.0 | 1436.4 | 1428.7 | 1411.1 | 1385.8 | 1359.4 | 1324.1 | 1280.1 | 1240.5 | 1205.3 |
| 32.5° | 1444.1 | 1430.9 | 1410.0 | 1389.1 | 1360.5 | 1338.5 | 1302.1 | 1263.6 | 1208.6 | 1161.2 | 1126.0 |
| 35°   | 1444.1 | 1391.3 | 1338.5 | 1294.4 | 1251.5 | 1224.0 | 1182.2 | 1130.4 | 1079.8 | 1040.2 | 1012.6 |
| 37.5° | 1412.2 | 1310.9 | 1224.0 | 1152.4 | 1098.5 | 1068.8 | 1006.0 | 959.8  | 916.9  | 903.7  | 886.1  |
| 40°   | 1353.9 | 1204.2 | 1078.7 | 985.1  | 916.9  | 872.9  | 810.1  | 778.2  | 761.7  | 755.1  | 751.8  |
| 42.5° | 1275.7 | 1085.3 | 918.0  | 802.4  | 728.7  | 679.1  | 637.3  | 617.5  | 616.4  | 615.3  | 615.3  |
| 45°   | 1192.1 | 957.6  | 761.7  | 624.1  | 559.2  | 515.1  | 495.3  | 487.6  | 494.2  | 493.1  | 494.2  |
| 47.5° | 1140.3 | 860.7  | 618.6  | 472.2  | 422.7  | 394.1  | 384.1  | 387.4  | 392.9  | 390.7  | 390.7  |
| 50°   | 1133.7 | 811.2  | 522.8  | 367.6  | 330.2  | 315.9  | 313.7  | 313.7  | 317.0  | 314.8  | 313.7  |
| 52.5° | 1157.9 | 803.5  | 473.3  | 315.9  | 286.2  | 274.1  | 271.9  | 270.8  | 269.7  | 263.1  | 257.6  |
| 55°   | 1199.8 | 821.1  | 459.0  | 302.7  | 271.9  | 258.7  | 255.4  | 253.2  | 248.8  | 240.0  | 230.0  |
| 57.5° | 1283.4 | 876.2  | 472.2  | 309.3  | 276.3  | 265.3  | 262.0  | 262.0  | 253.2  | 238.9  | 224.5  |
| 60°   | 1484.8 | 1015.9 | 526.1  | 334.6  | 297.2  | 286.2  | 288.4  | 287.3  | 274.1  | 253.2  | 231.1  |
| 62.5° | 1744.6 | 1198.7 | 596.6  | 369.8  | 323.6  | 321.4  | 332.4  | 330.2  | 308.2  | 276.3  | 244.4  |
| 65°   | 1864.6 | 1284.5 | 616.4  | 377.5  | 329.1  | 339.0  | 361.0  | 358.8  | 331.3  | 287.3  | 246.6  |
| 66°   | 1866.8 | 1284.5 | 607.6  | 370.9  | 321.4  | 333.5  | 355.5  | 354.4  | 326.9  | 282.9  | 242.2  |
| 67.5° | 1821.7 | 1249.3 | 582.3  | 357.7  | 306.0  | 314.8  | 334.6  | 333.5  | 308.2  | 271.9  | 233.3  |
| 70°   | 1652.2 | 1118.3 | 517.3  | 334.6  | 285.1  | 280.7  | 287.3  | 282.9  | 266.4  | 241.1  | 214.6  |
| 72.5° | 1415.5 | 938.9  | 451.3  | 317.0  | 270.8  | 253.2  | 248.8  | 245.5  | 232.2  | 217.9  | 201.4  |
| 75°   | 1115.0 | 743.0  | 396.3  | 303.8  | 257.6  | 234.4  | 226.7  | 222.3  | 213.5  | 203.6  | 190.4  |
| 77.5° | 687.9  | 531.6  | 345.6  | 286.2  | 247.7  | 224.5  | 219.0  | 212.4  | 199.2  | 187.1  | 177.2  |
| 80°   | 307.1  | 329.1  | 284.0  | 249.9  | 221.2  | 200.3  | 191.5  | 181.6  | 168.4  | 160.7  | 155.2  |
| 82.5° | 204.7  | 212.4  | 205.8  | 187.1  | 167.3  | 150.8  | 137.6  | 137.6  | 135.4  | 128.8  | 126.6  |
| 85°   | 131.0  | 132.1  | 127.7  | 115.6  | 107.9  | 98.0   | 92.5   | 93.6   | 98.0   | 96.9   | 95.8   |
| 87.5° | 29.7   | 29.7   | 35.2   | 33.0   | 38.5   | 40.7   | 44.0   | 47.3   | 53.9   | 53.9   | 57.2   |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1315.3 | 1315.3 | 1315.3 | 1315.3 | 1315.3 |
| 2.5°  | 1353.9 | 1356.1 | 1358.3 | 1355.0 | 1356.1 |
| 5°    | 1392.4 | 1391.3 | 1396.8 | 1393.5 | 1395.7 |
| 7.5°  | 1404.5 | 1405.6 | 1410.0 | 1410.0 | 1411.1 |
| 10°   | 1405.6 | 1407.8 | 1413.3 | 1416.6 | 1418.8 |
| 12.5° | 1411.1 | 1415.5 | 1424.3 | 1426.5 | 1426.5 |
| 15°   | 1415.5 | 1417.7 | 1423.2 | 1425.4 | 1427.6 |
| 17.5° | 1400.1 | 1395.7 | 1397.9 | 1399.0 | 1397.9 |
| 20°   | 1361.6 | 1357.2 | 1356.1 | 1351.7 | 1353.9 |
| 22.5° | 1319.7 | 1307.6 | 1299.9 | 1291.1 | 1291.1 |
| 25°   | 1269.1 | 1250.4 | 1235.0 | 1219.6 | 1222.9 |
| 27.5° | 1221.8 | 1197.6 | 1182.2 | 1172.2 | 1170.0 |
| 30°   | 1175.5 | 1150.2 | 1135.9 | 1123.8 | 1123.8 |
| 32.5° | 1098.5 | 1080.9 | 1062.2 | 1054.5 | 1053.4 |
| 35°   | 991.7  | 980.7  | 965.3  | 962.0  | 956.5  |
| 37.5° | 871.8  | 868.5  | 855.2  | 854.1  | 848.6  |
| 40°   | 746.3  | 748.5  | 744.1  | 741.9  | 738.6  |
| 42.5° | 620.8  | 631.8  | 629.6  | 628.5  | 626.3  |
| 45°   | 500.8  | 508.5  | 509.6  | 512.9  | 518.4  |
| 47.5° | 394.1  | 396.3  | 398.5  | 397.4  | 398.5  |
| 50°   | 308.2  | 302.7  | 301.6  | 298.3  | 301.6  |
| 52.5° | 248.8  | 240.0  | 235.5  | 231.1  | 228.9  |
| 55°   | 219.0  | 210.2  | 205.8  | 203.6  | 201.4  |
| 57.5° | 211.3  | 202.5  | 195.9  | 191.5  | 190.4  |
| 60°   | 213.5  | 200.3  | 191.5  | 186.0  | 184.9  |
| 62.5° | 219.0  | 201.4  | 189.3  | 183.8  | 182.7  |
| 65°   | 217.9  | 199.2  | 188.2  | 181.6  | 180.5  |
| 66°   | 214.6  | 197.0  | 186.0  | 180.5  | 179.4  |
| 67.5° | 209.1  | 193.7  | 183.8  | 179.4  | 177.2  |
| 70°   | 199.2  | 189.3  | 181.6  | 176.1  | 173.9  |
| 72.5° | 190.4  | 182.7  | 176.1  | 170.6  | 169.5  |
| 75°   | 180.5  | 173.9  | 167.3  | 162.9  | 161.8  |
| 77.5° | 168.4  | 161.8  | 157.4  | 154.1  | 153.0  |
| 80°   | 148.6  | 144.2  | 139.8  | 135.4  | 135.4  |
| 82.5° | 123.3  | 120.0  | 115.6  | 112.3  | 111.2  |
| 85°   | 94.7   | 94.7   | 91.4   | 88.1   | 87.0   |
| 87.5° | 56.1   | 55.0   | 55.0   | 51.7   | 51.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)