

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: P317536

Luminaire Tested: **GAN-SA2D-760-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16539 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 129  
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: 24 FT

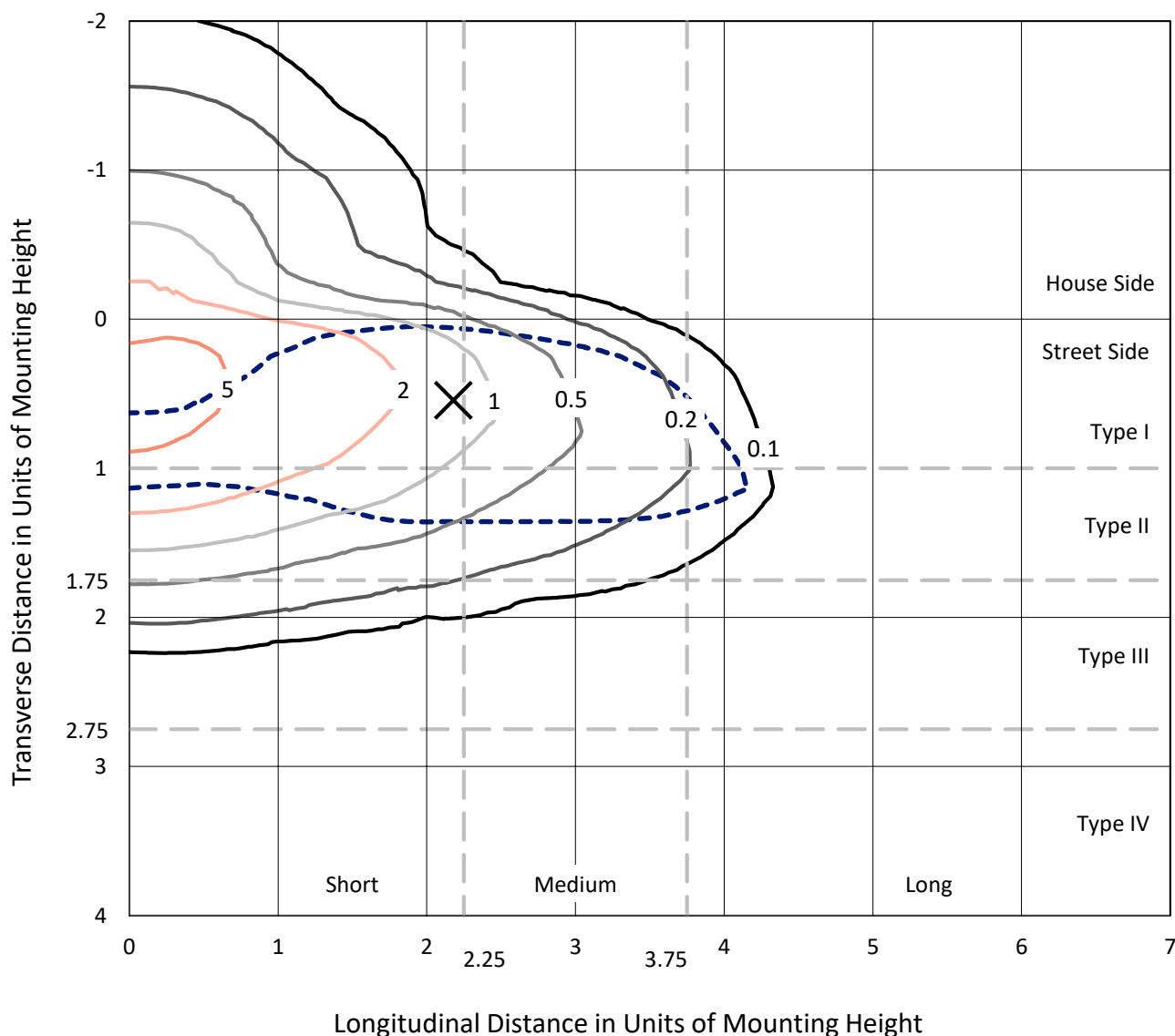


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

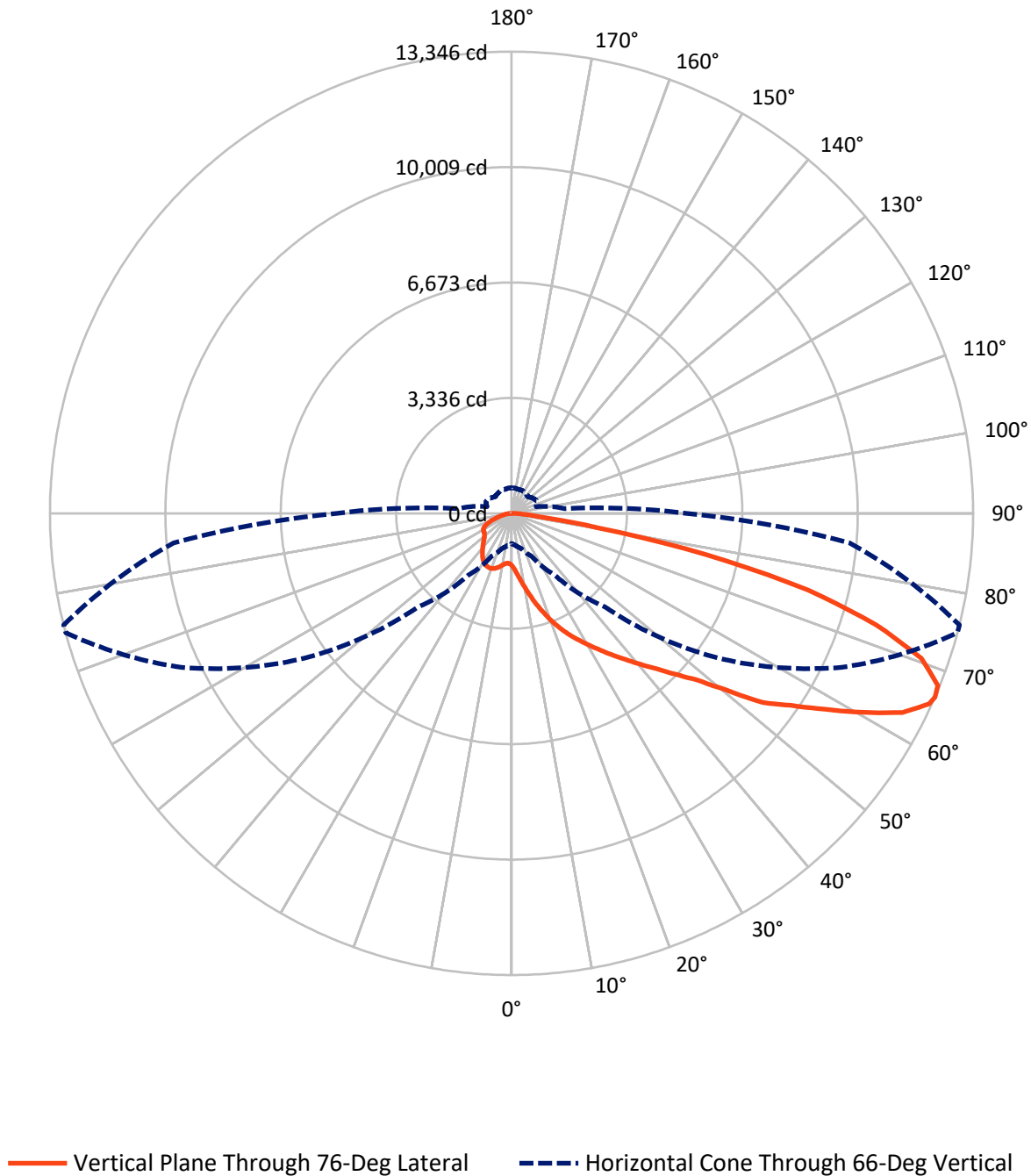
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2783.0   | 0.0    | 2783.0  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 13756.1  | 0.0    | 13756.1 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 16539.0  | 0.0    | 16539.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 182.6   | 1.1       |
| 10°-20°   | 721.3   | 4.4       |
| 20°-30°   | 1401.6  | 8.5       |
| 30°-40°   | 2287.7  | 13.8      |
| 40°-50°   | 3125.5  | 18.9      |
| 50°-60°   | 3640.6  | 22.0      |
| 60°-70°   | 3263.9  | 19.7      |
| 70°-80°   | 1649.4  | 10.0      |
| 80°-90°   | 266.4   | 1.6       |
| 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°    | 16539.0 | 100.0     |
| 0°-180°   | 16539.0 | 100.0     |

**Coefficient of Utilization**



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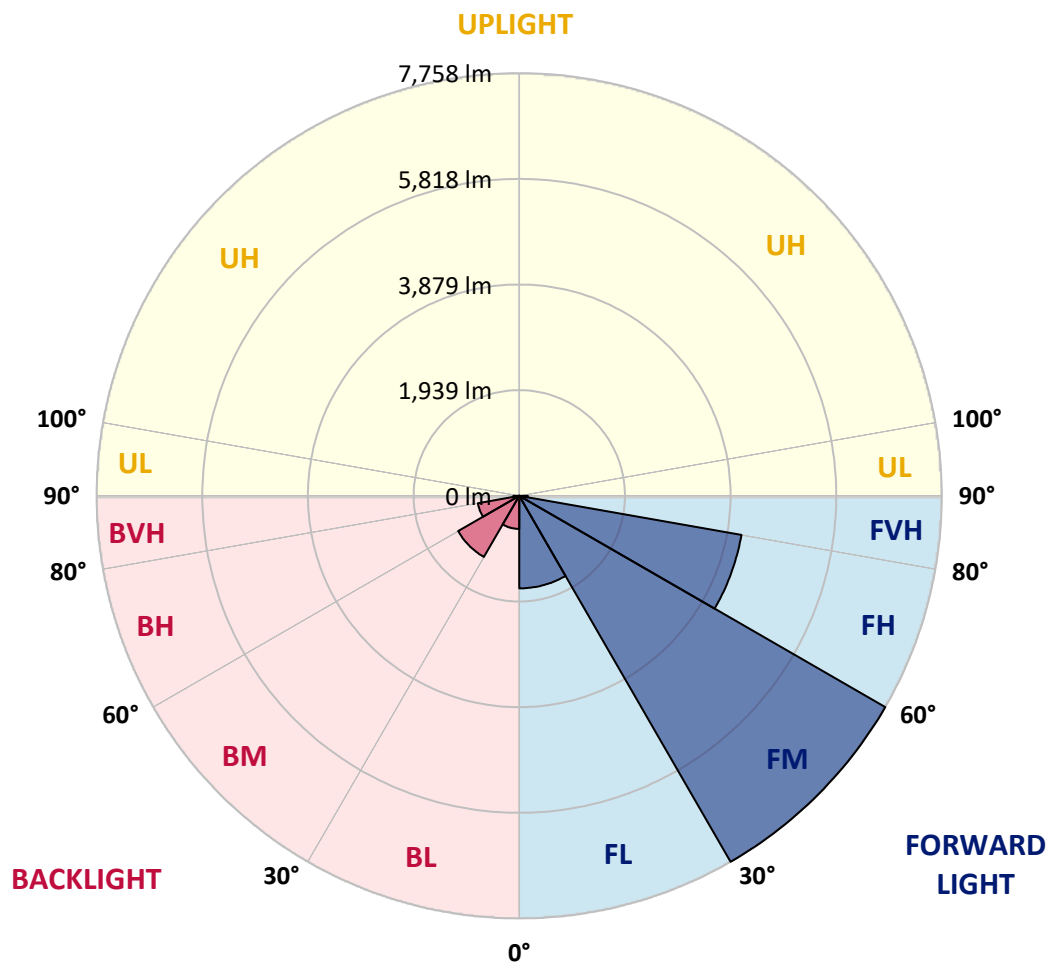
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1698.5 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 7757.9 | 46.9      |                         |      |         |
| FH   | (60°-80°)   | 4142.3 | 25.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 157.3  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 607.0  | 3.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1295.9 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 771.0  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 109.1  | 0.7       |                         |      | G2/225  |
| 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°    | 65°     | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4  | 1510.4  | 1510.4  | 1510.4 |
| 2.5°  | 2005.0 | 1974.7 | 1971.9 | 1927.6 | 1917.5 | 1832.7 | 1770.3 | 1705.2  | 1631.1  | 1616.5  | 1558.1 |
| 5°    | 2575.5 | 2572.7 | 2534.0 | 2461.5 | 2404.8 | 2260.0 | 2116.8 | 1965.2  | 1799.0  | 1772.0  | 1640.6 |
| 7.5°  | 3088.7 | 3084.2 | 3054.5 | 2976.4 | 2894.4 | 2716.4 | 2512.1 | 2279.6  | 2010.1  | 1970.2  | 1752.4 |
| 10°   | 3478.4 | 3476.7 | 3466.6 | 3409.3 | 3339.7 | 3169.0 | 2943.3 | 2626.0  | 2255.5  | 2201.0  | 1892.2 |
| 12.5° | 3779.3 | 3782.7 | 3789.4 | 3769.2 | 3736.1 | 3590.7 | 3359.3 | 2993.3  | 2517.1  | 2463.2  | 2047.7 |
| 15°   | 3983.1 | 3993.3 | 4028.1 | 4056.7 | 4074.1 | 3984.8 | 3760.8 | 3368.9  | 2810.2  | 2745.6  | 2220.1 |
| 17.5° | 4085.9 | 4097.1 | 4157.2 | 4243.7 | 4323.4 | 4314.4 | 4136.4 | 3727.1  | 3091.5  | 3029.2  | 2405.4 |
| 20°   | 4174.6 | 4183.0 | 4250.4 | 4354.3 | 4495.2 | 4557.5 | 4457.6 | 4071.9  | 3399.8  | 3325.7  | 2601.9 |
| 22.5° | 4431.8 | 4442.4 | 4462.7 | 4521.6 | 4646.3 | 4760.8 | 4712.5 | 4398.1  | 3682.2  | 3613.1  | 2788.3 |
| 25°   | 4928.1 | 4941.0 | 4897.2 | 4847.3 | 4870.8 | 4950.6 | 4959.6 | 4695.7  | 3968.5  | 3890.5  | 2988.8 |
| 27.5° | 5526.1 | 5544.6 | 5469.9 | 5341.4 | 5229.1 | 5198.2 | 5187.5 | 4939.3  | 4242.0  | 4151.6  | 3187.0 |
| 30°   | 6111.7 | 6143.7 | 6046.6 | 5879.8 | 5673.8 | 5528.9 | 5421.7 | 5178.0  | 4511.5  | 4425.0  | 3373.9 |
| 32.5° | 6683.9 | 6671.0 | 6530.0 | 6367.2 | 6125.8 | 5944.4 | 5685.0 | 5434.0  | 4814.7  | 4715.3  | 3559.8 |
| 35°   | 7075.8 | 7080.3 | 6949.4 | 6756.3 | 6526.1 | 6386.8 | 6037.6 | 5710.3  | 5124.1  | 5032.6  | 3770.9 |
| 37.5° | 7409.3 | 7388.5 | 7240.3 | 7060.1 | 6861.9 | 6802.3 | 6450.3 | 6014.6  | 5459.3  | 5359.3  | 3995.5 |
| 40°   | 7520.5 | 7496.3 | 7399.2 | 7269.5 | 7110.6 | 7105.5 | 6905.7 | 6359.3  | 5838.3  | 5739.5  | 4248.7 |
| 42.5° | 7453.1 | 7422.2 | 7382.4 | 7347.0 | 7298.1 | 7320.6 | 7333.5 | 6763.6  | 6254.9  | 6144.3  | 4541.8 |
| 45°   | 7204.4 | 7157.8 | 7185.8 | 7262.8 | 7368.9 | 7495.8 | 7719.8 | 7211.1  | 6721.5  | 6628.8  | 4886.0 |
| 47.5° | 6822.0 | 6779.9 | 6867.5 | 7032.0 | 7320.6 | 7641.8 | 8085.3 | 7705.2  | 7278.5  | 7186.4  | 5376.2 |
| 50°   | 6284.1 | 6296.4 | 6421.7 | 6720.9 | 7157.2 | 7709.1 | 8535.6 | 8359.3  | 8088.1  | 8002.2  | 6044.9 |
| 52.5° | 5401.4 | 5403.7 | 5756.3 | 6247.6 | 6867.5 | 7674.3 | 8785.5 | 9195.4  | 9193.7  | 9089.8  | 6681.6 |
| 55°   | 4581.7 | 4631.7 | 4910.7 | 5563.7 | 6398.1 | 7535.1 | 8960.1 | 9601.9  | 9919.7  | 9797.8  | 7275.1 |
| 57.5° | 3781.0 | 3810.2 | 4074.7 | 4730.5 | 5728.2 | 7163.9 | 9139.2 | 10089.8 | 10756.3 | 10679.4 | 8012.9 |
| 60°   | 2870.3 | 2915.2 | 3188.7 | 3794.5 | 4871.4 | 6505.3 | 9156.1 | 10599.1 | 11756.3 | 11678.8 | 8836.6 |
| 62.5° | 1863.0 | 1940.5 | 2196.5 | 2764.2 | 3834.9 | 5558.1 | 8765.3 | 10932.0 | 12704.1 | 12676.6 | 9567.6 |
| 65°   | 1070.7 | 1129.1 | 1307.1 | 1745.1 | 2645.7 | 4368.9 | 7836.0 | 10804.0 | 13287.4 | 13271.7 | 9841.1 |
| 66°   | 874.8  | 911.3  | 1047.7 | 1363.8 | 2183.0 | 3836.6 | 7295.9 | 10533.9 | 13345.3 | 13345.8 | 9809.6 |
| 67.5° | 699.6  | 715.9  | 777.1  | 976.4  | 1610.9 | 3041.0 | 6330.7 | 9938.2  | 13273.4 | 13293.1 | 9606.9 |
| 70°   | 578.9  | 587.3  | 606.4  | 654.7  | 879.3  | 1833.8 | 4493.5 | 8390.2  | 12551.9 | 12567.1 | 8815.8 |
| 72.5° | 519.4  | 524.4  | 531.7  | 538.5  | 620.4  | 1024.7 | 2744.5 | 6711.9  | 11005.0 | 11024.7 | 7610.3 |
| 75°   | 470.5  | 473.3  | 472.2  | 472.8  | 520.5  | 653.0  | 1418.3 | 5011.2  | 8898.3  | 8859.0  | 5829.9 |
| 77.5° | 413.2  | 416.1  | 410.4  | 411.6  | 460.4  | 502.0  | 705.8  | 3508.1  | 6005.0  | 5727.7  | 3284.7 |
| 80°   | 349.2  | 351.5  | 349.2  | 353.2  | 400.9  | 379.0  | 410.4  | 1973.6  | 2655.2  | 2511.5  | 1167.9 |
| 82.5° | 263.9  | 273.4  | 280.2  | 295.9  | 330.2  | 269.5  | 274.6  | 768.7   | 808.5   | 769.8   | 358.2  |
| 85°   | 115.7  | 140.9  | 211.1  | 226.3  | 248.2  | 161.7  | 180.2  | 313.3   | 329.0   | 318.9   | 130.3  |
| 87.5° | 30.3   | 33.1   | 104.4  | 131.4  | 137.6  | 73.0   | 93.8   | 142.6   | 150.5   | 142.6   | 43.2   |
| 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°    | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 | 1510.4 |
| 2.5°  | 1527.2 | 1499.7 | 1450.3 | 1406.5 | 1373.4 | 1350.9 | 1328.5 | 1317.2 | 1310.5 | 1303.8 | 1304.9 |
| 5°    | 1576.1 | 1520.5 | 1435.7 | 1375.6 | 1341.9 | 1320.6 | 1309.4 | 1304.9 | 1302.1 | 1295.3 | 1295.3 |
| 7.5°  | 1649.6 | 1571.0 | 1454.2 | 1392.5 | 1366.1 | 1349.8 | 1343.1 | 1340.8 | 1337.4 | 1329.6 | 1330.7 |
| 10°   | 1742.3 | 1632.2 | 1493.0 | 1432.9 | 1408.8 | 1390.8 | 1381.2 | 1377.9 | 1371.7 | 1362.7 | 1363.8 |
| 12.5° | 1851.2 | 1708.0 | 1544.1 | 1481.2 | 1452.0 | 1427.8 | 1412.1 | 1402.6 | 1391.9 | 1380.1 | 1380.7 |
| 15°   | 1970.2 | 1790.6 | 1599.1 | 1524.4 | 1484.6 | 1450.9 | 1425.6 | 1409.3 | 1392.5 | 1377.9 | 1377.3 |
| 17.5° | 2091.0 | 1870.3 | 1641.2 | 1548.0 | 1494.1 | 1449.7 | 1415.5 | 1390.2 | 1369.5 | 1351.5 | 1349.8 |
| 20°   | 2221.2 | 1942.2 | 1664.8 | 1545.8 | 1476.1 | 1423.4 | 1377.9 | 1346.4 | 1323.4 | 1305.4 | 1302.6 |
| 22.5° | 2353.7 | 2009.5 | 1668.7 | 1522.7 | 1436.3 | 1371.7 | 1324.0 | 1289.2 | 1265.6 | 1247.0 | 1240.3 |
| 25°   | 2475.0 | 2061.8 | 1652.4 | 1478.4 | 1380.7 | 1311.1 | 1264.5 | 1229.1 | 1210.0 | 1188.1 | 1181.4 |
| 27.5° | 2585.6 | 2098.3 | 1619.9 | 1421.7 | 1318.4 | 1249.9 | 1206.1 | 1175.7 | 1155.0 | 1138.1 | 1132.5 |
| 30°   | 2685.0 | 2117.9 | 1566.5 | 1354.3 | 1254.3 | 1192.0 | 1155.0 | 1134.2 | 1116.2 | 1094.9 | 1091.0 |
| 32.5° | 2779.3 | 2117.9 | 1498.0 | 1280.7 | 1190.9 | 1140.9 | 1119.0 | 1106.1 | 1085.9 | 1065.1 | 1059.5 |
| 35°   | 2873.7 | 2105.0 | 1417.2 | 1203.8 | 1132.5 | 1104.4 | 1103.3 | 1088.2 | 1057.3 | 1029.2 | 1021.9 |
| 37.5° | 2973.0 | 2078.6 | 1326.2 | 1131.9 | 1084.8 | 1088.2 | 1097.7 | 1064.0 | 1020.2 | 980.3  | 969.7  |
| 40°   | 3085.3 | 2042.1 | 1231.9 | 1069.6 | 1044.9 | 1080.9 | 1082.5 | 1029.2 | 943.8  | 907.4  | 897.8  |
| 42.5° | 3217.3 | 2005.6 | 1144.3 | 1014.6 | 1013.5 | 1059.0 | 1053.9 | 954.0  | 902.9  | 884.3  | 879.3  |
| 45°   | 3390.8 | 1984.8 | 1061.2 | 962.4  | 988.8  | 1023.6 | 1005.1 | 912.4  | 891.1  | 880.4  | 875.9  |
| 47.5° | 3664.2 | 1995.5 | 984.8  | 920.8  | 964.1  | 988.2  | 914.1  | 895.6  | 880.4  | 867.5  | 863.0  |
| 50°   | 4006.7 | 1989.3 | 923.1  | 892.2  | 936.0  | 951.1  | 873.1  | 873.7  | 865.8  | 851.2  | 844.5  |
| 52.5° | 4264.4 | 1941.0 | 883.2  | 875.9  | 911.3  | 885.5  | 847.3  | 852.3  | 848.4  | 827.1  | 819.8  |
| 55°   | 4513.2 | 1899.5 | 863.0  | 869.7  | 893.3  | 803.5  | 817.0  | 829.3  | 825.4  | 804.6  | 801.2  |
| 57.5° | 4822.6 | 1891.6 | 850.6  | 871.4  | 878.2  | 762.5  | 787.8  | 804.0  | 801.2  | 792.2  | 790.6  |
| 60°   | 5201.6 | 1893.9 | 839.4  | 874.2  | 861.3  | 732.2  | 760.2  | 781.0  | 782.7  | 781.0  | 779.9  |
| 62.5° | 5409.9 | 1832.7 | 811.3  | 866.4  | 831.6  | 705.8  | 731.6  | 761.9  | 762.5  | 765.9  | 765.3  |
| 65°   | 5233.0 | 1649.6 | 759.1  | 838.9  | 781.6  | 683.9  | 706.9  | 740.0  | 731.6  | 746.8  | 746.8  |
| 66°   | 5061.2 | 1544.1 | 733.3  | 820.9  | 760.2  | 675.5  | 699.0  | 728.8  | 718.1  | 738.9  | 738.9  |
| 67.5° | 4710.3 | 1366.1 | 686.7  | 782.7  | 729.9  | 663.7  | 690.1  | 710.3  | 695.7  | 726.6  | 724.3  |
| 70°   | 4069.1 | 1056.7 | 592.9  | 696.2  | 680.0  | 646.3  | 677.7  | 673.2  | 651.9  | 699.0  | 690.1  |
| 72.5° | 3430.6 | 802.9  | 476.1  | 582.8  | 604.2  | 624.4  | 660.3  | 626.1  | 599.1  | 632.2  | 612.6  |
| 75°   | 2662.0 | 603.6  | 376.2  | 453.1  | 510.4  | 590.1  | 639.5  | 571.6  | 532.8  | 529.5  | 518.8  |
| 77.5° | 1439.1 | 414.4  | 298.1  | 345.9  | 405.4  | 547.4  | 625.5  | 513.2  | 454.8  | 441.3  | 432.9  |
| 80°   | 569.9  | 269.5  | 216.7  | 262.2  | 283.5  | 485.7  | 591.8  | 445.3  | 375.1  | 361.6  | 348.7  |
| 82.5° | 235.3  | 159.5  | 139.8  | 175.7  | 184.7  | 415.5  | 531.2  | 365.0  | 289.7  | 400.9  | 425.6  |
| 85°   | 101.1  | 87.6   | 83.1   | 91.0   | 104.4  | 291.4  | 422.8  | 278.5  | 312.7  | 279.1  | 221.8  |
| 87.5° | 30.3   | 37.1   | 35.4   | 34.8   | 38.2   | 69.6   | 225.2  | 155.0  | 229.6  | 87.0   | 65.1   |
| 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)