

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: P193113

Luminaire Tested: **GAN-AF-05-LED-U-T2-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-T2-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28235.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 279  
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

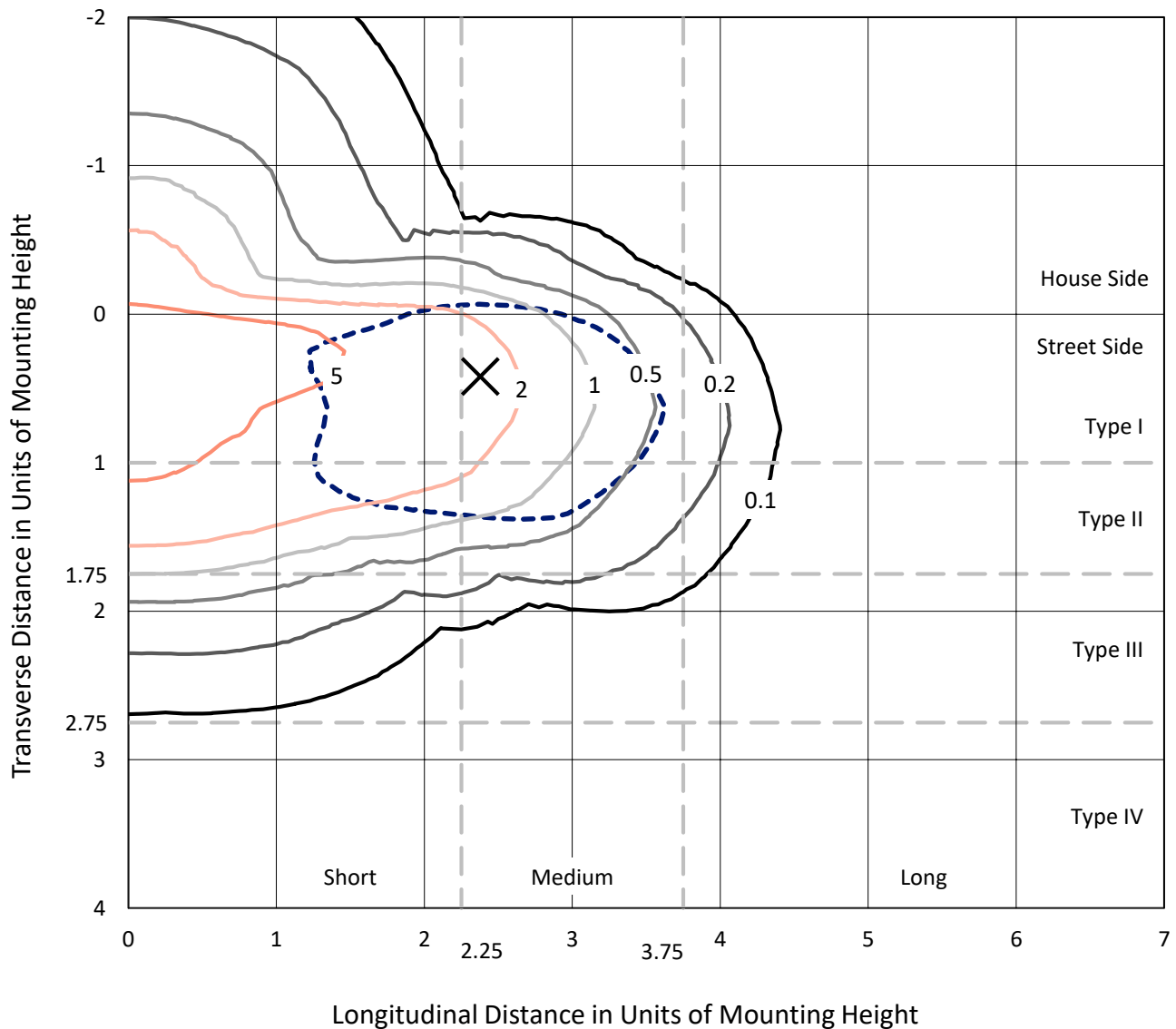


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

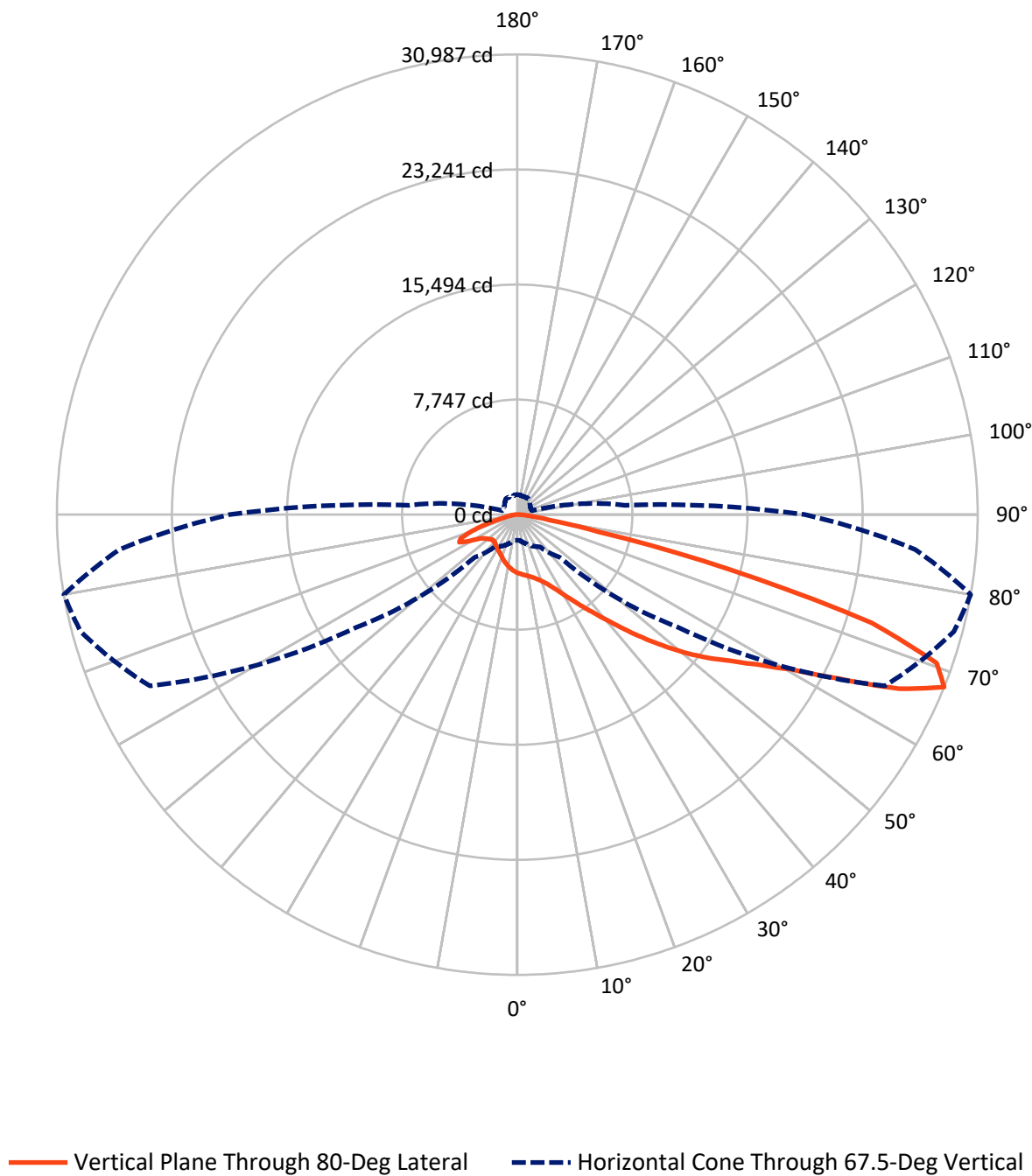


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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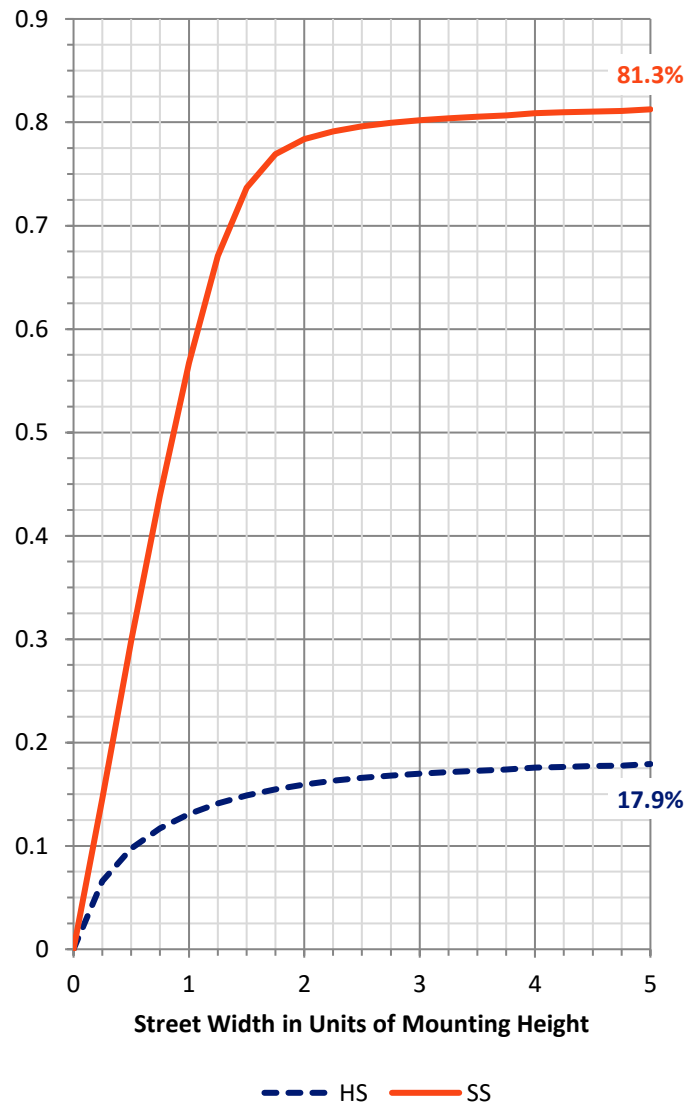
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5200.0   | 0.0    | 5200.0  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 23035.9  | 0.0    | 23035.9 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 28235.9  | 0.0    | 28235.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.9   | 1.3       |
| 10°-20°   | 1042.4  | 3.7       |
| 20°-30°   | 1725.4  | 6.1       |
| 30°-40°   | 2822.3  | 10.0      |
| 40°-50°   | 4556.9  | 16.1      |
| 50°-60°   | 6578.9  | 23.3      |
| 60°-70°   | 7260.2  | 25.7      |
| 70°-80°   | 3346.5  | 11.9      |
| 80°-90°   | 541.3   | 1.9       |
| 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°    | 28235.9 | 100.0     |
| 0°-180°   | 28235.9 | 100.0     |

**Coefficient of Utilization**



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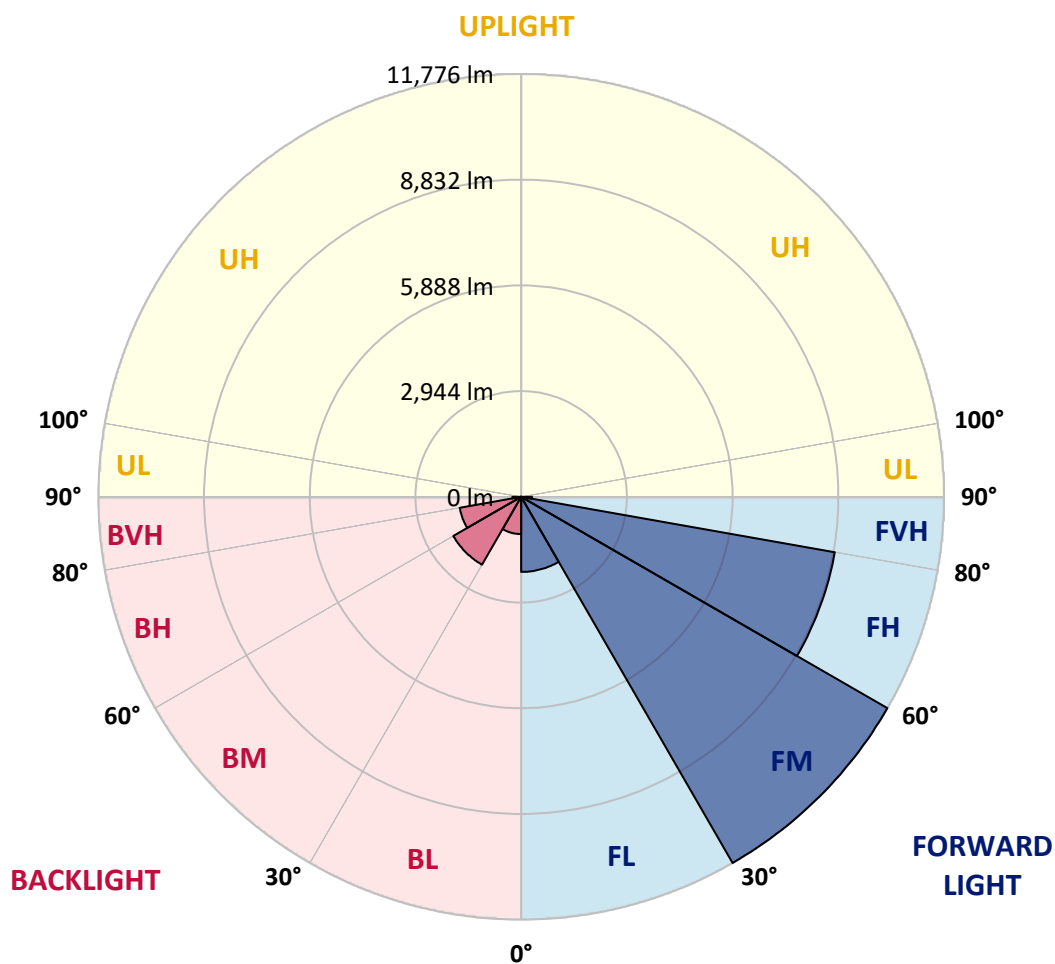
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2092.2  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 11776.5 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 8869.6  | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 297.6   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1037.5  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2181.7  | 7.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1737.1  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 243.7   | 0.9       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  | 3922.7  |
| 2.5°  | 4291.1  | 4266.1  | 4270.3  | 4263.4  | 4242.5  | 4206.4  | 4167.4  | 4096.5  | 4022.8  | 3983.9  | 3953.3  |
| 5°    | 4649.7  | 4642.9  | 4633.1  | 4610.8  | 4558.1  | 4483.0  | 4389.8  | 4264.7  | 4129.9  | 4059.0  | 3990.9  |
| 7.5°  | 4918.1  | 4913.9  | 4901.4  | 4887.5  | 4836.1  | 4745.6  | 4605.3  | 4427.4  | 4231.4  | 4134.1  | 4028.4  |
| 10°   | 4940.2  | 4947.3  | 4957.0  | 4994.6  | 5001.5  | 4952.8  | 4809.7  | 4594.3  | 4337.0  | 4212.0  | 4077.1  |
| 12.5° | 4751.2  | 4766.6  | 4804.1  | 4899.9  | 5001.5  | 5061.2  | 4987.5  | 4769.3  | 4460.7  | 4309.1  | 4138.2  |
| 15°   | 4501.1  | 4509.3  | 4555.2  | 4687.3  | 4869.4  | 5054.4  | 5123.8  | 4962.5  | 4620.6  | 4434.3  | 4230.0  |
| 17.5° | 4394.0  | 4398.2  | 4430.1  | 4517.8  | 4687.3  | 4951.4  | 5200.3  | 5172.5  | 4816.5  | 4590.0  | 4342.6  |
| 20°   | 4339.8  | 4349.5  | 4395.4  | 4481.6  | 4588.7  | 4819.4  | 5211.3  | 5399.0  | 5050.2  | 4784.7  | 4484.3  |
| 22.5° | 4494.1  | 4489.9  | 4506.6  | 4549.7  | 4640.0  | 4779.1  | 5203.0  | 5632.6  | 5347.5  | 5034.8  | 4669.3  |
| 25°   | 4854.2  | 4869.4  | 4840.1  | 4791.6  | 4820.7  | 4918.1  | 5247.5  | 5885.6  | 5720.2  | 5356.0  | 4911.1  |
| 27.5° | 5367.1  | 5351.7  | 5308.7  | 5194.7  | 5134.9  | 5176.6  | 5394.9  | 6158.1  | 6183.1  | 5778.5  | 5230.8  |
| 30°   | 5878.5  | 5866.1  | 5824.4  | 5685.5  | 5563.1  | 5528.3  | 5681.3  | 6470.8  | 6734.8  | 6285.9  | 5622.8  |
| 32.5° | 6409.5  | 6395.7  | 6356.8  | 6217.8  | 6070.5  | 5989.8  | 6088.5  | 6832.2  | 7385.5  | 6892.0  | 6084.3  |
| 35°   | 7064.3  | 7037.9  | 6955.9  | 6762.7  | 6618.2  | 6555.5  | 6601.5  | 7286.7  | 8136.1  | 7609.3  | 6644.5  |
| 37.5° | 7680.2  | 7720.5  | 7637.0  | 7370.2  | 7182.4  | 7160.3  | 7211.6  | 7841.4  | 8945.2  | 8411.4  | 7288.1  |
| 40°   | 8298.7  | 8305.7  | 8230.6  | 8012.4  | 7819.1  | 7783.0  | 7912.3  | 8514.2  | 9900.1  | 9370.5  | 8070.8  |
| 42.5° | 8938.2  | 8952.0  | 8825.5  | 8624.1  | 8482.3  | 8489.1  | 8636.5  | 9302.4  | 10995.6 | 10500.6 | 8971.5  |
| 45°   | 9695.7  | 9716.7  | 9577.5  | 9313.5  | 9184.3  | 9444.2  | 9382.9  | 10186.5 | 12196.5 | 11785.0 | 10005.8 |
| 47.5° | 10488.2 | 10520.0 | 10414.4 | 10167.0 | 10005.8 | 10363.0 | 10129.4 | 11166.4 | 13489.2 | 13162.6 | 11141.3 |
| 50°   | 10920.4 | 10966.3 | 11069.2 | 11051.0 | 11016.3 | 10956.5 | 10962.1 | 12217.4 | 14822.3 | 14597.1 | 12309.0 |
| 52.5° | 10688.3 | 10686.8 | 11062.2 | 11518.1 | 12004.7 | 12040.8 | 11976.9 | 13325.3 | 16067.8 | 15999.7 | 13408.7 |
| 55°   | 9626.3  | 9698.5  | 10267.1 | 11149.8 | 12478.7 | 13308.6 | 13497.6 | 14594.5 | 17291.2 | 17370.4 | 14524.8 |
| 57.5° | 7858.0  | 7917.8  | 8685.1  | 9915.4  | 11839.3 | 14062.0 | 15660.5 | 16439.0 | 18659.0 | 19028.7 | 16010.9 |
| 60°   | 5329.5  | 5401.8  | 6215.0  | 7692.6  | 10118.3 | 13642.2 | 17719.2 | 19730.7 | 20296.4 | 21137.4 | 18095.9 |
| 62.5° | 3131.8  | 3197.2  | 3860.2  | 4852.8  | 7124.1  | 11692.0 | 18622.8 | 24413.9 | 22897.3 | 24319.4 | 21276.5 |
| 65°   | 2156.0  | 2200.5  | 2523.1  | 3020.6  | 4093.7  | 7874.8  | 17502.4 | 27647.2 | 26899.3 | 28261.5 | 24964.3 |
| 67.5° | 1734.8  | 1729.2  | 1985.0  | 2324.2  | 2635.6  | 4060.4  | 13234.9 | 27281.6 | 30419.0 | 30987.4 | 26878.5 |
| 70°   | 1429.0  | 1423.4  | 1597.2  | 1877.9  | 2106.0  | 2286.7  | 7208.9  | 23022.3 | 29701.7 | 29932.4 | 25115.9 |
| 72.5° | 1195.6  | 1201.0  | 1312.2  | 1520.8  | 1727.8  | 1722.3  | 3168.0  | 16195.7 | 23365.7 | 24961.5 | 20021.2 |
| 75°   | 1009.2  | 1012.0  | 1085.6  | 1233.0  | 1402.6  | 1387.3  | 1718.1  | 8774.2  | 13582.3 | 14693.0 | 11098.3 |
| 77.5° | 859.1   | 861.8   | 909.1   | 991.1   | 1112.0  | 1106.5  | 1253.9  | 3790.7  | 5665.9  | 5596.5  | 3796.3  |
| 80°   | 765.9   | 765.9   | 788.2   | 803.5   | 870.1   | 845.1   | 929.9   | 1821.1  | 2395.1  | 2211.6  | 1515.2  |
| 82.5° | 600.5   | 603.3   | 739.4   | 734.0   | 685.3   | 653.4   | 653.4   | 1073.2  | 1269.1  | 1173.2  | 886.8   |
| 85°   | 337.8   | 336.4   | 476.8   | 575.5   | 603.3   | 460.1   | 455.9   | 600.5   | 690.8   | 608.9   | 429.5   |
| 87.5° | 144.5   | 147.4   | 221.0   | 255.7   | 342.0   | 286.4   | 282.2   | 310.0   | 351.7   | 304.4   | 198.8   |
| 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°    | 3922.7  | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 | 3922.7 |
| 2.5°  | 3924.1  | 3888.0 | 3808.8 | 3710.1 | 3621.2 | 3562.7 | 3510.0 | 3433.5 | 3437.7 | 3384.9 | 3345.9 |
| 5°    | 3921.5  | 3846.4 | 3662.8 | 3444.6 | 3234.7 | 3083.2 | 2969.2 | 2866.3 | 2841.3 | 2792.6 | 2763.5 |
| 7.5°  | 3924.1  | 3801.9 | 3493.2 | 3144.4 | 2884.5 | 2692.5 | 2595.2 | 2541.1 | 2528.6 | 2511.9 | 2513.3 |
| 10°   | 3933.9  | 3761.6 | 3307.0 | 2863.5 | 2591.1 | 2464.6 | 2441.0 | 2457.7 | 2477.1 | 2482.7 | 2484.0 |
| 12.5° | 3956.2  | 3725.4 | 3102.6 | 2613.4 | 2407.6 | 2368.6 | 2408.9 | 2466.0 | 2503.5 | 2521.6 | 2520.2 |
| 15°   | 4006.2  | 3697.6 | 2906.7 | 2417.4 | 2306.1 | 2327.0 | 2402.1 | 2482.7 | 2536.9 | 2561.9 | 2563.3 |
| 17.5° | 4060.4  | 3657.2 | 2705.0 | 2267.2 | 2231.1 | 2283.8 | 2377.1 | 2471.6 | 2538.3 | 2566.1 | 2571.6 |
| 20°   | 4131.3  | 3607.2 | 2493.9 | 2154.6 | 2160.2 | 2219.9 | 2307.5 | 2402.1 | 2475.7 | 2499.3 | 2510.4 |
| 22.5° | 4224.4  | 3553.0 | 2308.8 | 2062.9 | 2079.5 | 2125.4 | 2193.5 | 2275.6 | 2339.5 | 2350.6 | 2360.3 |
| 25°   | 4349.5  | 3494.6 | 2161.5 | 1979.4 | 1986.5 | 2012.8 | 2058.7 | 2107.4 | 2151.9 | 2139.3 | 2149.0 |
| 27.5° | 4517.8  | 3444.6 | 2051.8 | 1903.0 | 1890.5 | 1896.0 | 1919.6 | 1935.0 | 1958.6 | 1923.8 | 1928.0 |
| 30°   | 4715.1  | 3390.5 | 1967.0 | 1836.3 | 1801.5 | 1791.9 | 1797.4 | 1805.7 | 1823.7 | 1776.5 | 1769.6 |
| 32.5° | 4944.5  | 3325.1 | 1887.7 | 1777.8 | 1729.2 | 1709.8 | 1712.5 | 1734.8 | 1804.3 | 1775.1 | 1759.8 |
| 35°   | 5211.3  | 3251.3 | 1804.3 | 1714.0 | 1680.6 | 1652.8 | 1650.1 | 1719.5 | 1926.7 | 1908.5 | 1894.7 |
| 37.5° | 5524.1  | 3177.7 | 1721.0 | 1641.7 | 1644.5 | 1613.9 | 1604.2 | 1683.3 | 1950.3 | 1879.4 | 1869.7 |
| 40°   | 5921.8  | 3138.8 | 1650.1 | 1565.2 | 1600.0 | 1595.8 | 1576.4 | 1616.6 | 1794.6 | 1665.3 | 1648.6 |
| 42.5° | 6413.8  | 3144.4 | 1597.2 | 1483.2 | 1547.1 | 1591.6 | 1561.1 | 1562.4 | 1626.5 | 1529.1 | 1513.8 |
| 45°   | 7021.2  | 3209.7 | 1559.6 | 1417.8 | 1487.3 | 1587.4 | 1555.6 | 1533.2 | 1538.8 | 1487.3 | 1479.1 |
| 47.5° | 7730.2  | 3344.5 | 1533.2 | 1363.7 | 1430.4 | 1572.1 | 1554.1 | 1524.9 | 1512.3 | 1484.7 | 1477.6 |
| 50°   | 8518.4  | 3540.5 | 1513.8 | 1312.2 | 1379.0 | 1547.1 | 1555.6 | 1516.5 | 1502.7 | 1491.5 | 1487.3 |
| 52.5° | 9292.6  | 3764.3 | 1484.7 | 1267.7 | 1338.7 | 1516.5 | 1559.6 | 1508.3 | 1492.9 | 1484.7 | 1480.5 |
| 55°   | 10155.8 | 4043.6 | 1440.1 | 1230.3 | 1305.3 | 1477.6 | 1559.6 | 1495.8 | 1479.1 | 1480.5 | 1479.1 |
| 57.5° | 11322.1 | 4495.5 | 1387.3 | 1198.2 | 1265.0 | 1430.4 | 1533.2 | 1481.8 | 1461.1 | 1462.3 | 1463.7 |
| 60°   | 13144.6 | 5292.0 | 1323.3 | 1166.3 | 1215.0 | 1374.8 | 1497.1 | 1451.2 | 1430.4 | 1436.0 | 1437.3 |
| 62.5° | 15824.6 | 6461.0 | 1240.0 | 1119.1 | 1162.1 | 1315.1 | 1447.0 | 1412.2 | 1391.4 | 1405.4 | 1405.4 |
| 65°   | 18610.2 | 7492.5 | 1137.1 | 1059.3 | 1106.5 | 1249.7 | 1384.6 | 1363.7 | 1342.8 | 1374.8 | 1373.4 |
| 67.5° | 19359.5 | 7261.7 | 1034.2 | 993.9  | 1050.8 | 1177.4 | 1309.5 | 1298.3 | 1287.2 | 1342.8 | 1340.1 |
| 70°   | 17198.0 | 5830.0 | 939.7  | 927.2  | 989.8  | 1099.5 | 1228.8 | 1228.8 | 1221.8 | 1263.6 | 1253.9 |
| 72.5° | 13102.8 | 4134.1 | 849.4  | 856.3  | 920.2  | 1014.8 | 1141.2 | 1150.9 | 1139.9 | 1160.7 | 1152.3 |
| 75°   | 7014.3  | 2365.9 | 759.1  | 778.5  | 834.0  | 928.6  | 1044.0 | 1053.7 | 1046.7 | 1045.3 | 1049.6 |
| 77.5° | 2331.1  | 1156.5 | 664.4  | 695.0  | 743.7  | 839.6  | 942.5  | 957.7  | 941.0  | 938.3  | 936.9  |
| 80°   | 1038.4  | 727.0  | 560.2  | 600.5  | 643.6  | 738.1  | 835.4  | 848.0  | 829.9  | 854.9  | 822.9  |
| 82.5° | 667.2   | 478.2  | 448.9  | 493.6  | 535.2  | 636.7  | 728.4  | 731.2  | 714.4  | 829.9  | 707.6  |
| 85°   | 323.9   | 296.1  | 337.8  | 378.1  | 414.2  | 500.4  | 603.3  | 604.6  | 563.0  | 513.0  | 494.8  |
| 87.5° | 161.2   | 172.4  | 225.2  | 261.3  | 279.3  | 343.4  | 439.2  | 430.9  | 412.9  | 375.3  | 346.2  |
| 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)