

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: P507830

Luminaire Tested: **UFLD-L-CA4-320-760-U-66**

Issue Date: 3/30/2021

### Test Information

Test Method: LM-79-08  
Report Number: P507830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UFLD-L-CA4-320-760-U-66  
Description: UTILITY FLOOD LARGE, 6x6 OPTIC  
Light Source: (4) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

|                   |                                          |                      |                   |
|-------------------|------------------------------------------|----------------------|-------------------|
| Lumens per Lamp:  | N/A                                      | NEMA Type:           | 6H x 6V           |
| Luminaire Lumens: | 46650 lumens                             | Max Intensity:       | 24895.9 candela   |
| Efficiency:       | N/A                                      | Max Intensity Angle: | 3°H x 29°V        |
| Efficacy:         | 144.7 lumens/watt                        |                      |                   |
| Luminous Opening: | Rectangular (W 1.33' x L: 1.42' x H: 0') |                      |                   |
| Beam Angle (50%): | 102.9°H x 79.4°V                         | Field Angle (10%):   | 126.5°H x 112.9°V |
| Beam Lumens:      | 34660.9 lumens                           | Field Lumens:        | 45081.8 lumens    |
| Beam Efficiency:  | 74.3%                                    | Field Efficiency:    | 96.6%             |

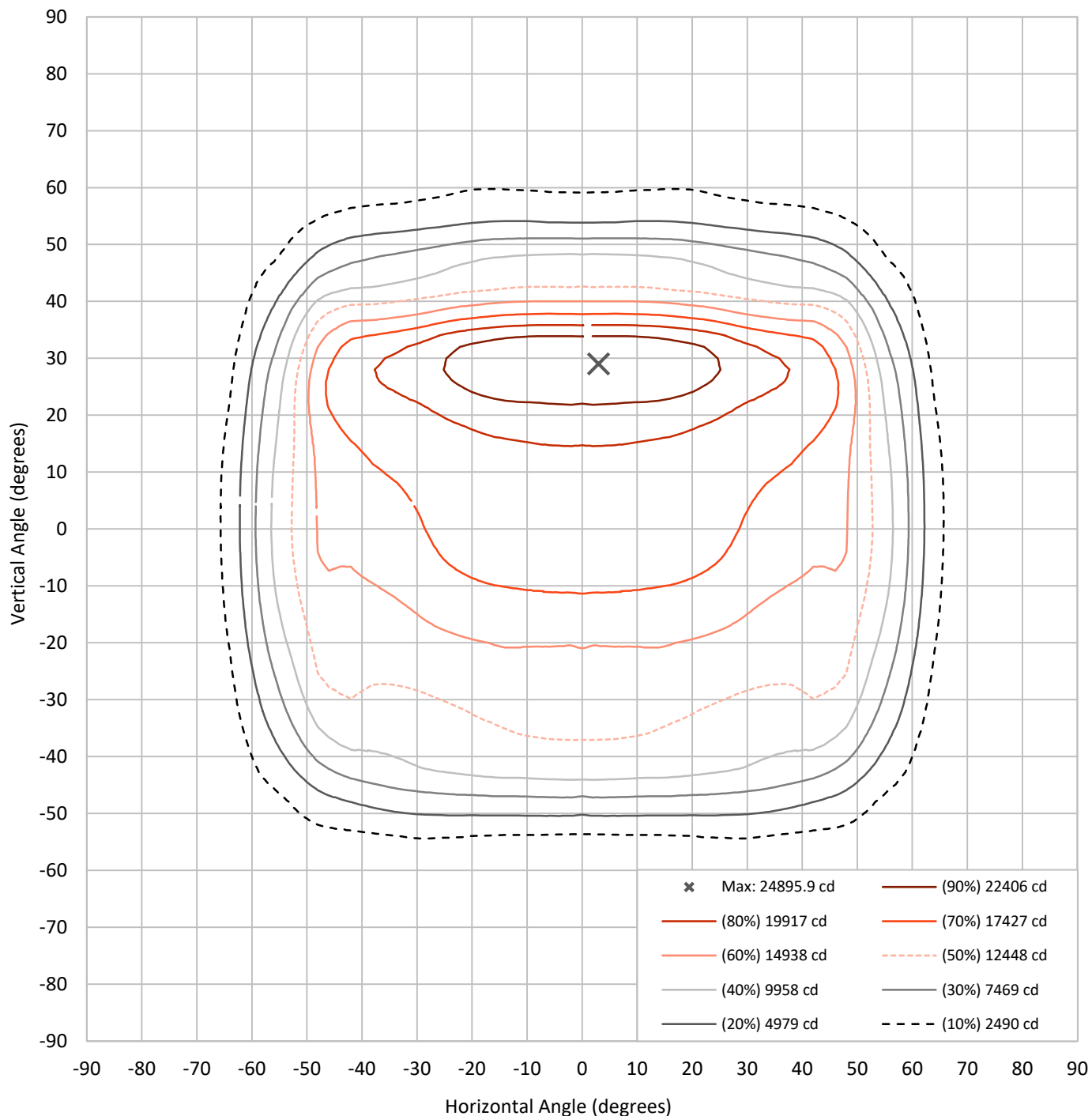
Input Watts (W): 322.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Candela Plot

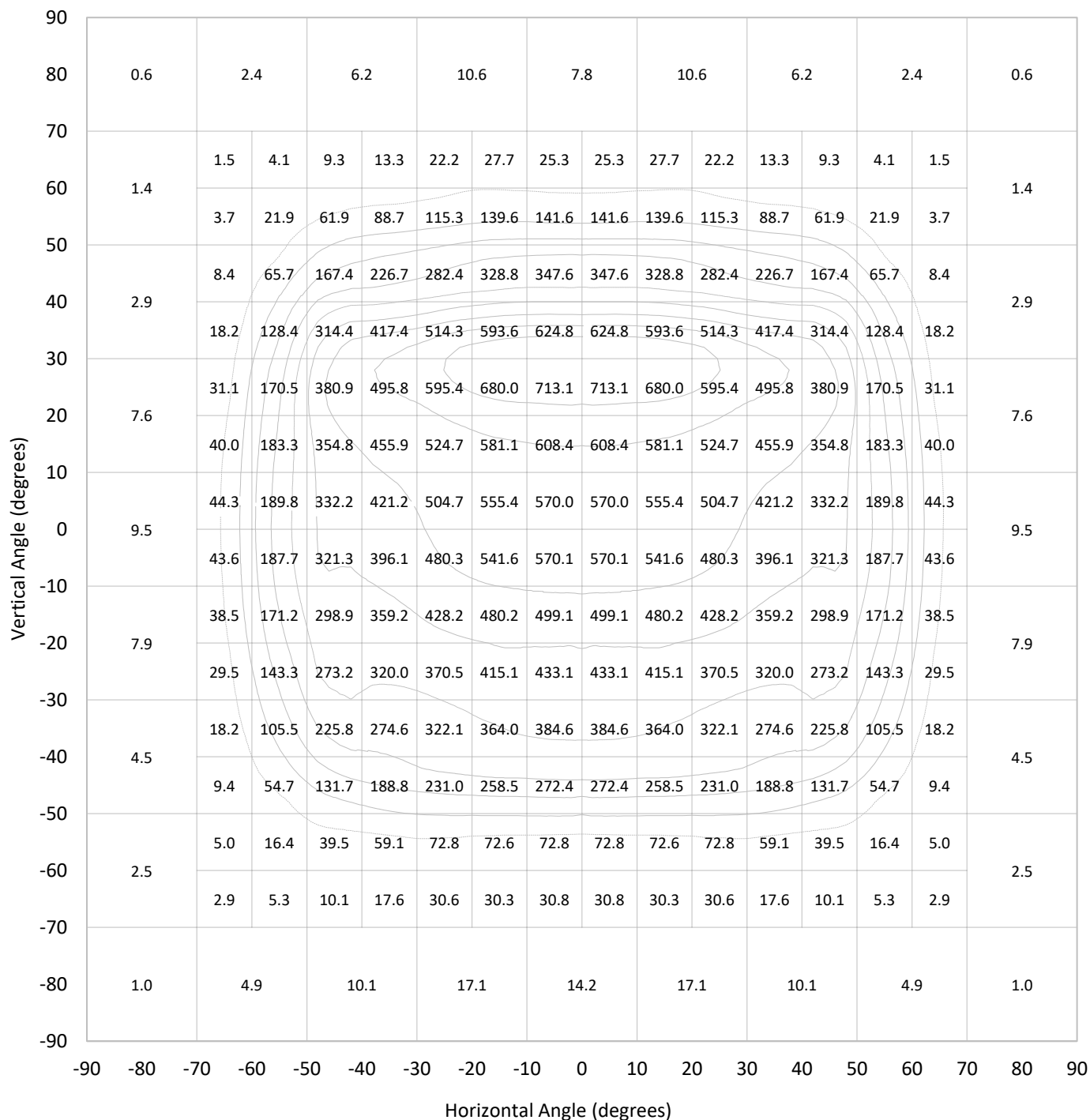




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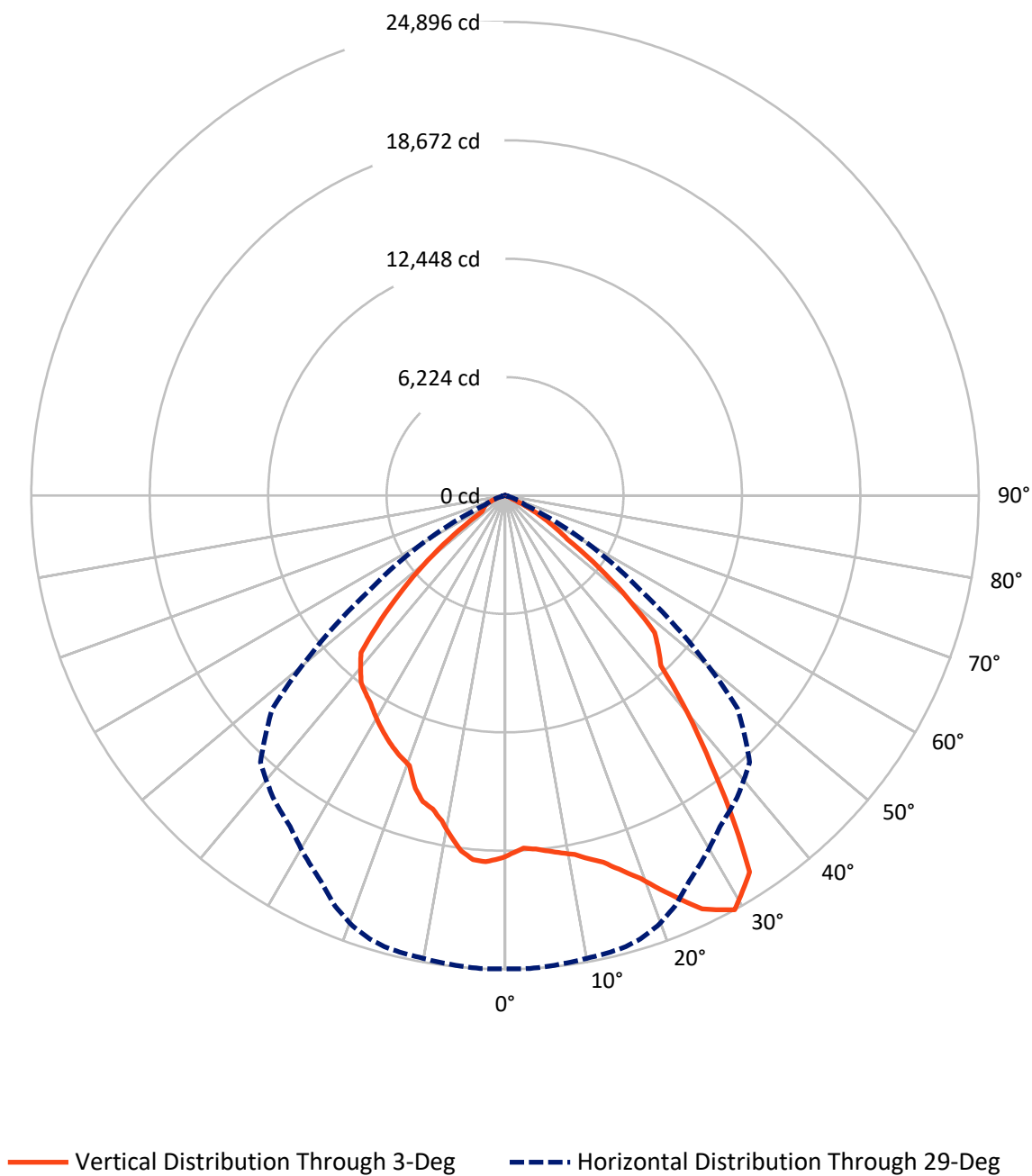
## Lumen Table



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## Luminous Intensity Polar Plot

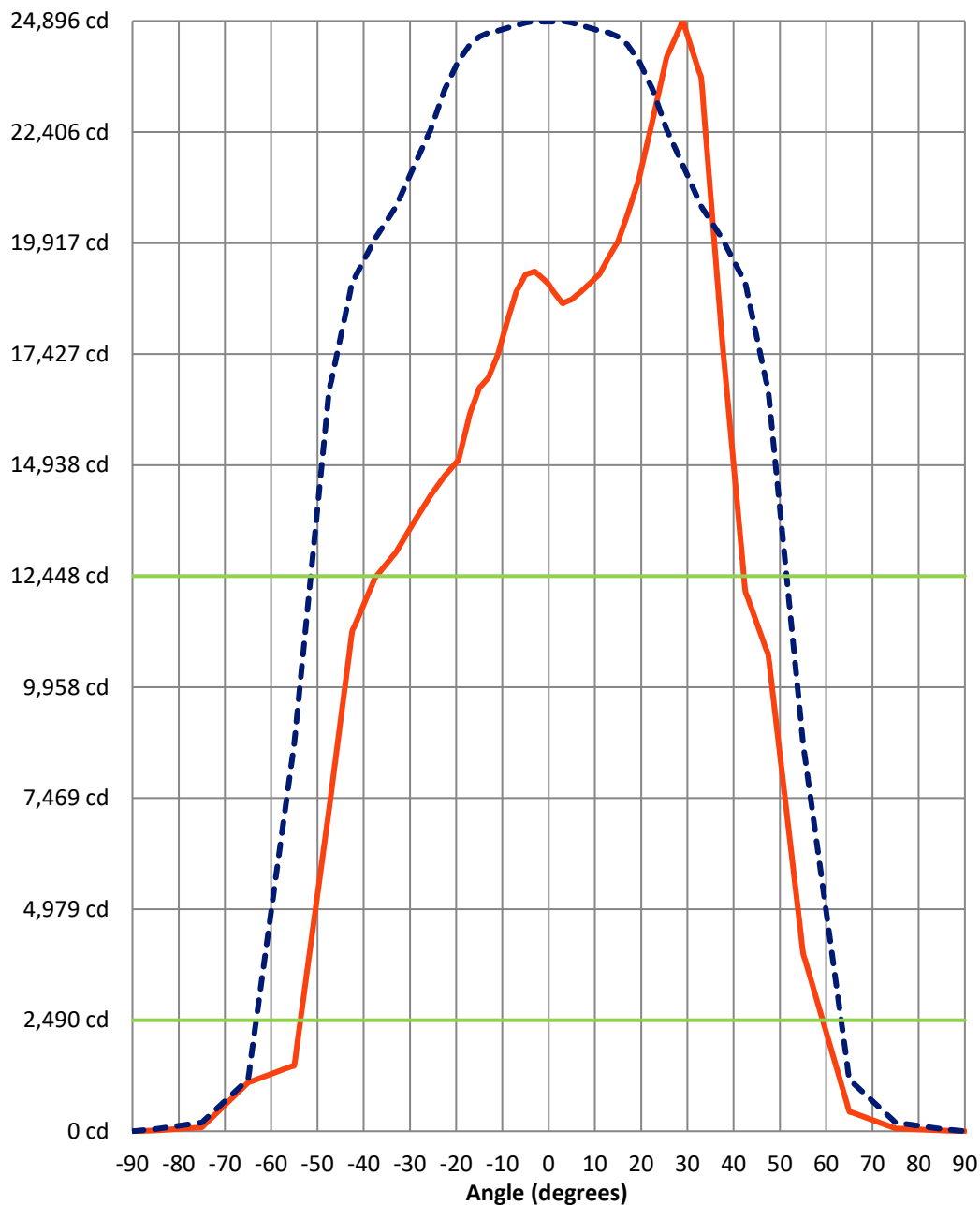




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## Luminous Intensity Plot



**Beam:**

H Angle: 102.9°  
V Angle: 79.4°  
Lumens: 34660.9  
Efficiency: 74.3%

**Field:**

H Angle: 126.5°  
V Angle: 112.9°  
Lumens: 45081.8  
Efficiency: 96.6%

**Spill:**

Lumens: 1568.2  
Efficiency: 3.4%

— Vertical Distribution through 3-Deg  
- - Horizontal Distribution through 29-Deg



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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

|        | 0°      | 1°      | 3°      | 5°      | 7°      | 9°      | 11°     | 13°     | 15°     | 17°     | 19.5°   |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°    | 1.0     | 7.9     | 16.8    | 39.4    | 51.2    | 60.1    | 66.0    | 69.0    | 70.0    | 70.0    | 67.0    |
| 75°    | 58.1    | 59.1    | 63.1    | 57.2    | 45.3    | 49.3    | 71.9    | 81.8    | 90.7    | 93.6    | 88.7    |
| 65°    | 449.4   | 446.5   | 443.5   | 440.5   | 427.7   | 409.0   | 402.1   | 441.5   | 542.1   | 646.5   | 697.8   |
| 55°    | 3922.5  | 3908.7  | 4001.3  | 3936.3  | 4064.4  | 4187.6  | 4231.9  | 4244.7  | 4259.5  | 4184.6  | 4083.1  |
| 47.5°  | 10634.0 | 10726.7 | 10668.5 | 10660.7 | 10593.6 | 10489.2 | 10426.1 | 10323.6 | 10233.9 | 10215.2 | 9908.7  |
| 42.5°  | 12202.1 | 12160.7 | 12122.2 | 12208.0 | 12158.7 | 12200.1 | 12195.2 | 12090.7 | 12017.8 | 11868.0 | 11718.1 |
| 37.5°  | 17684.6 | 17715.2 | 17753.6 | 17761.5 | 17785.2 | 17685.6 | 17616.6 | 17543.7 | 17403.8 | 17165.3 | 16823.3 |
| 33°    | 23611.7 | 23665.9 | 23600.9 | 23596.9 | 23649.2 | 23625.5 | 23524.0 | 23429.4 | 23221.4 | 22941.6 | 22624.2 |
| 29°    | 24882.1 | 24879.1 | 24895.9 | 24856.5 | 24796.3 | 24738.2 | 24675.1 | 24632.7 | 24542.1 | 24367.6 | 24004.0 |
| 25.5°  | 24036.5 | 24050.3 | 24078.9 | 24056.2 | 23980.3 | 23937.9 | 23883.7 | 23809.8 | 23652.1 | 23464.9 | 23155.4 |
| 22.5°  | 22620.3 | 22728.7 | 22686.3 | 22657.7 | 22592.7 | 22489.2 | 22509.9 | 22439.9 | 22317.7 | 22126.5 | 21801.3 |
| 19.5°  | 21305.5 | 21359.7 | 21348.9 | 21270.1 | 21229.7 | 21144.9 | 21105.5 | 21054.2 | 20950.7 | 20832.5 | 20610.7 |
| 17°    | 20463.9 | 20564.4 | 20542.7 | 20494.4 | 20431.4 | 20375.2 | 20304.2 | 20260.9 | 20176.1 | 20046.0 | 19777.0 |
| 15°    | 19964.2 | 20009.5 | 19956.3 | 19946.5 | 19955.3 | 19844.0 | 19798.6 | 19688.3 | 19661.7 | 19552.3 | 19314.7 |
| 13°    | 19542.4 | 19565.1 | 19600.5 | 19544.4 | 19534.5 | 19495.1 | 19400.5 | 19354.2 | 19261.5 | 19217.2 | 19045.7 |
| 11°    | 19211.3 | 19366.0 | 19220.1 | 19260.5 | 19215.2 | 19209.3 | 19156.1 | 19130.4 | 19061.5 | 18993.5 | 18888.0 |
| 9°     | 19038.8 | 19065.4 | 19019.1 | 19017.1 | 18996.4 | 18959.0 | 18946.1 | 18944.2 | 18930.4 | 18892.9 | 18827.9 |
| 7°     | 18827.9 | 18850.5 | 18828.9 | 18807.2 | 18791.4 | 18775.6 | 18820.0 | 18834.8 | 18898.8 | 18845.6 | 18783.5 |
| 5°     | 18684.0 | 18662.3 | 18654.4 | 18650.5 | 18689.9 | 18689.9 | 18776.6 | 18825.9 | 18886.0 | 18902.8 | 18822.0 |
| 3°     | 18560.8 | 18587.4 | 18563.8 | 18592.3 | 18670.2 | 18711.6 | 18827.9 | 18899.8 | 18939.2 | 18940.2 | 18907.7 |
| 1°     | 18752.0 | 18817.0 | 18829.9 | 18849.6 | 18878.1 | 18903.8 | 18990.5 | 19054.6 | 19012.2 | 19014.1 | 18882.1 |
| 0°     | 18931.4 | 18957.0 | 18990.5 | 18967.8 | 19005.3 | 19027.9 | 19090.0 | 19102.8 | 19086.1 | 19011.2 | 18833.8 |
| -1°    | 19119.6 | 19113.7 | 19095.0 | 19091.0 | 19099.9 | 19073.3 | 19107.8 | 19065.4 | 19015.1 | 18948.1 | 18781.6 |
| -3°    | 19254.6 | 19303.9 | 19277.3 | 19246.7 | 19150.2 | 19150.2 | 19111.7 | 18954.0 | 18886.0 | 18816.1 | 18581.5 |
| -5°    | 19141.3 | 19204.4 | 19208.3 | 19110.7 | 18960.9 | 18921.5 | 18799.3 | 18704.7 | 18586.4 | 18472.1 | 18235.6 |
| -7°    | 18889.0 | 18855.5 | 18825.9 | 18699.8 | 18601.2 | 18508.6 | 18345.9 | 18181.4 | 18150.8 | 18042.4 | 17834.4 |
| -9°    | 18193.2 | 18216.8 | 18146.9 | 18113.4 | 18004.9 | 17884.7 | 17837.4 | 17720.1 | 17658.0 | 17561.5 | 17370.3 |
| -11°   | 17502.3 | 17407.7 | 17414.6 | 17438.3 | 17361.4 | 17362.4 | 17311.1 | 17240.2 | 17231.3 | 17139.6 | 16978.0 |
| -13°   | 16957.3 | 16950.4 | 16904.1 | 16943.5 | 16928.7 | 16930.7 | 16882.4 | 16873.5 | 16856.8 | 16793.7 | 16575.9 |
| -15°   | 16597.6 | 16655.7 | 16661.6 | 16628.1 | 16636.0 | 16617.3 | 16599.6 | 16557.2 | 16544.4 | 16444.8 | 16217.2 |
| -17°   | 16074.3 | 16094.0 | 16098.9 | 16095.9 | 16071.3 | 16091.0 | 16112.7 | 16095.9 | 16033.9 | 15958.0 | 15774.7 |
| -19.5° | 15106.5 | 15027.6 | 15055.2 | 15082.8 | 15090.7 | 15089.7 | 15121.2 | 15174.5 | 15125.2 | 15025.6 | 14873.9 |
| -22.5° | 14761.5 | 14744.8 | 14693.5 | 14710.3 | 14702.4 | 14677.7 | 14677.7 | 14681.7 | 14653.1 | 14548.6 | 14341.7 |
| -25.5° | 14244.1 | 14267.8 | 14259.9 | 14249.0 | 14247.1 | 14202.7 | 14204.7 | 14211.6 | 14155.4 | 14040.1 | 13853.8 |
| -29°   | 13673.5 | 13689.2 | 13683.3 | 13656.7 | 13620.3 | 13540.4 | 13506.9 | 13432.0 | 13332.5 | 13268.4 | 13117.6 |
| -33°   | 13024.0 | 12984.6 | 12986.5 | 12982.6 | 12934.3 | 12888.0 | 12831.8 | 12738.2 | 12635.7 | 12555.9 | 12396.2 |
| -37.5° | 12412.0 | 12434.6 | 12413.9 | 12420.8 | 12393.2 | 12346.9 | 12296.7 | 12225.7 | 12125.2 | 12009.9 | 11851.2 |
| -42.5° | 11243.1 | 11226.4 | 11200.7 | 11144.6 | 11121.9 | 11014.5 | 10948.4 | 10950.4 | 10927.7 | 10840.0 | 10689.2 |
| -47.5° | 6979.6  | 7164.9  | 7207.3  | 7170.8  | 7135.4  | 7120.6  | 7045.7  | 7039.8  | 7045.7  | 6998.4  | 6882.1  |
| -55°   | 1441.9  | 1436.9  | 1478.3  | 1507.9  | 1569.0  | 1592.6  | 1604.5  | 1561.1  | 1609.4  | 1708.9  | 1757.2  |
| -65°   | 1110.7  | 1106.8  | 1091.0  | 1090.0  | 1075.2  | 1069.3  | 1068.3  | 1058.5  | 1065.4  | 1094.9  | 1128.5  |
| -75°   | 86.7    | 86.7    | 87.7    | 77.9    | 71.9    | 80.8    | 105.5   | 113.3   | 125.2   | 120.2   | 134.0   |
| -85°   | 3.0     | 8.9     | 17.7    | 41.4    | 53.2    | 61.1    | 67.0    | 70.0    | 70.0    | 69.0    | 68.0    |
| -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):**

|        | 22.5°   | 25.5°   | 29°     | 33°     | 37.5°   | 42.5°   | 47.5°   | 55°     | 65°    | 75°   | 85°  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------|------|
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0   | 0.0  |
| 85°    | 62.1    | 58.1    | 55.2    | 51.2    | 44.3    | 37.5    | 32.5    | 27.6    | 31.5   | 27.6  | 33.5 |
| 75°    | 79.8    | 80.8    | 101.5   | 127.1   | 114.3   | 76.9    | 53.2    | 44.3    | 58.1   | 33.5  | 36.5 |
| 65°    | 608.1   | 392.2   | 243.4   | 183.3   | 148.8   | 126.1   | 154.7   | 117.3   | 108.4  | 54.2  | 38.4 |
| 55°    | 3831.8  | 3576.5  | 3389.3  | 3150.8  | 3072.9  | 2853.2  | 2308.1  | 939.2   | 172.5  | 87.7  | 41.4 |
| 47.5°  | 9576.6  | 9147.8  | 8663.9  | 8121.9  | 7654.7  | 7008.2  | 5741.8  | 2512.2  | 207.0  | 113.3 | 44.3 |
| 42.5°  | 11457.0 | 10969.1 | 10676.4 | 10281.2 | 9843.6  | 9698.8  | 8733.9  | 4326.5  | 212.9  | 129.1 | 45.3 |
| 37.5°  | 16530.6 | 15984.6 | 15232.6 | 14652.1 | 14192.9 | 14126.8 | 12318.3 | 6107.4  | 339.0  | 148.8 | 47.3 |
| 33°    | 22015.1 | 21214.9 | 20178.1 | 19282.2 | 18501.7 | 17800.9 | 15093.6 | 7541.4  | 789.4  | 171.5 | 48.3 |
| 29°    | 23351.5 | 22466.5 | 21667.2 | 20736.9 | 20019.4 | 19024.0 | 16581.8 | 8706.3  | 1161.0 | 196.1 | 49.3 |
| 25.5°  | 22522.7 | 21859.4 | 21081.8 | 20350.5 | 19813.4 | 19118.6 | 17224.4 | 9357.8  | 1461.6 | 218.8 | 50.3 |
| 22.5°  | 21299.6 | 20717.2 | 20070.7 | 19605.5 | 19313.8 | 18776.6 | 17175.1 | 9718.5  | 1701.1 | 238.5 | 51.2 |
| 19.5°  | 20225.4 | 19819.3 | 19297.0 | 19009.2 | 18883.1 | 18237.5 | 16679.4 | 10080.2 | 1916.9 | 259.2 | 52.2 |
| 17°    | 19482.3 | 19132.4 | 18787.5 | 18651.5 | 18525.3 | 17691.5 | 16228.0 | 10333.5 | 2093.3 | 270.0 | 53.2 |
| 15°    | 19047.7 | 18794.4 | 18547.0 | 18449.4 | 18211.9 | 17211.6 | 15927.4 | 10502.0 | 2216.5 | 278.9 | 54.2 |
| 13°    | 18839.7 | 18673.1 | 18452.4 | 18267.1 | 17862.0 | 16777.9 | 15705.7 | 10700.1 | 2317.0 | 286.8 | 54.2 |
| 11°    | 18725.4 | 18570.7 | 18275.0 | 18001.0 | 17431.4 | 16394.6 | 15574.6 | 10870.6 | 2399.8 | 290.7 | 55.2 |
| 9°     | 18660.3 | 18474.1 | 18113.4 | 17630.4 | 17079.5 | 16061.5 | 15496.7 | 10993.8 | 2468.8 | 292.7 | 56.2 |
| 7°     | 18681.0 | 18375.5 | 17905.4 | 17350.5 | 16759.2 | 15856.5 | 15428.7 | 11083.5 | 2516.1 | 291.7 | 57.2 |
| 5°     | 18674.1 | 18276.0 | 17734.9 | 17166.2 | 16511.8 | 15665.3 | 15376.5 | 11154.4 | 2537.8 | 288.8 | 58.1 |
| 3°     | 18637.7 | 18226.7 | 17582.1 | 16897.2 | 16291.1 | 15512.5 | 15352.8 | 11199.8 | 2557.5 | 285.8 | 58.1 |
| 1°     | 18579.5 | 18107.4 | 17386.0 | 16745.4 | 16136.4 | 15368.6 | 15327.2 | 11218.5 | 2552.6 | 282.9 | 58.1 |
| 0°     | 18521.4 | 18050.3 | 17322.0 | 16666.6 | 16065.4 | 15290.8 | 15289.8 | 11265.8 | 2543.7 | 280.9 | 58.1 |
| -1°    | 18426.8 | 17927.1 | 17209.6 | 16549.3 | 15972.8 | 15304.6 | 15291.7 | 11223.4 | 2533.8 | 277.9 | 59.1 |
| -3°    | 18167.6 | 17700.4 | 17024.3 | 16373.9 | 15803.2 | 15204.0 | 15258.2 | 11182.0 | 2516.1 | 275.0 | 60.1 |
| -5°    | 17873.9 | 17421.5 | 16815.4 | 16169.9 | 15607.1 | 15053.2 | 15181.4 | 11065.7 | 2474.7 | 273.0 | 60.1 |
| -7°    | 17500.3 | 17160.3 | 16512.8 | 15886.0 | 15352.8 | 14838.4 | 15036.5 | 10953.4 | 2429.4 | 271.0 | 61.1 |
| -9°    | 17118.0 | 16762.2 | 16185.6 | 15561.8 | 15072.0 | 14660.0 | 14838.4 | 10778.9 | 2369.3 | 269.1 | 61.1 |
| -11°   | 16727.7 | 16361.1 | 15785.5 | 15206.0 | 14738.8 | 14380.1 | 14629.5 | 10583.8 | 2302.2 | 269.1 | 62.1 |
| -13°   | 16260.5 | 15925.4 | 15403.1 | 14881.8 | 14433.3 | 14168.2 | 14404.7 | 10337.4 | 2220.4 | 270.0 | 62.1 |
| -15°   | 15900.8 | 15543.1 | 15042.4 | 14554.6 | 14147.5 | 13950.4 | 14142.6 | 10023.0 | 2142.6 | 272.0 | 63.1 |
| -17°   | 15472.1 | 15162.6 | 14705.3 | 14250.0 | 13882.4 | 13740.5 | 13880.4 | 9704.7  | 2042.1 | 273.0 | 63.1 |
| -19.5° | 14635.4 | 14353.5 | 14063.7 | 13764.1 | 13522.7 | 13477.3 | 13545.4 | 9286.8  | 1906.0 | 275.0 | 63.1 |
| -22.5° | 14072.6 | 13786.8 | 13471.4 | 13238.8 | 13073.3 | 13229.0 | 13143.2 | 8707.3  | 1712.9 | 277.9 | 63.1 |
| -25.5° | 13611.4 | 13348.2 | 13032.9 | 12809.1 | 12714.5 | 13055.5 | 12773.7 | 8080.5  | 1497.0 | 277.9 | 63.1 |
| -29°   | 12899.8 | 12670.2 | 12387.3 | 12175.4 | 12124.2 | 12655.4 | 12057.2 | 7356.1  | 1242.8 | 274.0 | 63.1 |
| -33°   | 12120.3 | 11862.0 | 11576.2 | 11350.5 | 11254.9 | 11970.4 | 10875.5 | 6487.9  | 925.4  | 263.1 | 63.1 |
| -37.5° | 11623.5 | 11334.8 | 11015.5 | 10660.7 | 10444.8 | 10542.4 | 9295.7  | 5242.1  | 538.1  | 244.4 | 62.1 |
| -42.5° | 10422.2 | 10244.8 | 9851.5  | 9468.1  | 8902.4  | 8225.4  | 6931.3  | 3759.9  | 411.0  | 221.7 | 62.1 |
| -47.5° | 6890.9  | 6760.8  | 6634.7  | 6393.2  | 5854.1  | 5150.5  | 4328.5  | 2082.5  | 391.3  | 194.2 | 61.1 |
| -55°   | 1904.1  | 1930.7  | 2045.0  | 1905.1  | 1665.6  | 1459.6  | 1416.2  | 635.7   | 359.7  | 148.8 | 58.1 |
| -65°   | 1195.5  | 1212.2  | 988.5   | 699.7   | 473.1   | 361.7   | 366.6   | 243.4   | 239.5  | 86.7  | 54.2 |
| -75°   | 145.9   | 146.8   | 123.2   | 117.3   | 118.3   | 135.0   | 140.9   | 117.3   | 94.6   | 49.3  | 50.3 |
| -85°   | 66.0    | 65.0    | 63.1    | 61.1    | 60.1    | 57.2    | 53.2    | 48.3    | 44.3   | 45.3  | 45.3 |
| -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° |
|--------|-----|
| 90°    | 0.0 |
| 85°    | 0.0 |
| 75°    | 0.0 |
| 65°    | 0.0 |
| 55°    | 0.0 |
| 47.5°  | 0.0 |
| 42.5°  | 0.0 |
| 37.5°  | 0.0 |
| 33°    | 0.0 |
| 29°    | 0.0 |
| 25.5°  | 0.0 |
| 22.5°  | 0.0 |
| 19.5°  | 0.0 |
| 17°    | 0.0 |
| 15°    | 0.0 |
| 13°    | 0.0 |
| 11°    | 0.0 |
| 9°     | 0.0 |
| 7°     | 0.0 |
| 5°     | 0.0 |
| 3°     | 0.0 |
| 1°     | 0.0 |
| 0°     | 0.0 |
| -1°    | 0.0 |
| -3°    | 0.0 |
| -5°    | 0.0 |
| -7°    | 0.0 |
| -9°    | 0.0 |
| -11°   | 0.0 |
| -13°   | 0.0 |
| -15°   | 0.0 |
| -17°   | 0.0 |
| -19.5° | 0.0 |
| -22.5° | 0.0 |
| -25.5° | 0.0 |
| -29°   | 0.0 |
| -33°   | 0.0 |
| -37.5° | 0.0 |
| -42.5° | 0.0 |
| -47.5° | 0.0 |
| -55°   | 0.0 |
| -65°   | 0.0 |
| -75°   | 0.0 |
| -85°   | 0.0 |
| -90°   | 0.0 |

(END OF REPORT)