

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: P192708

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-AFL-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 47231.7 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 419  
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



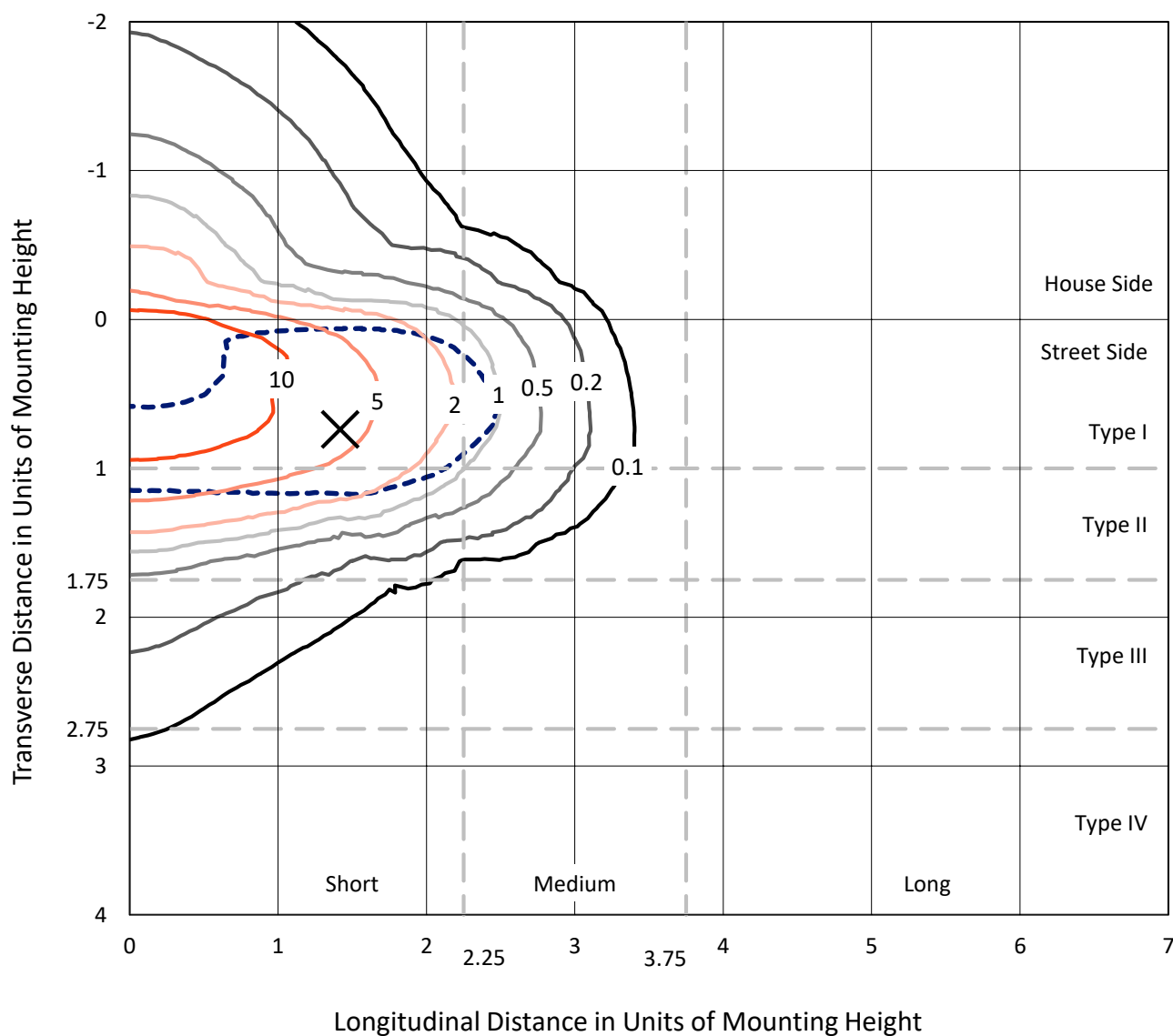
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

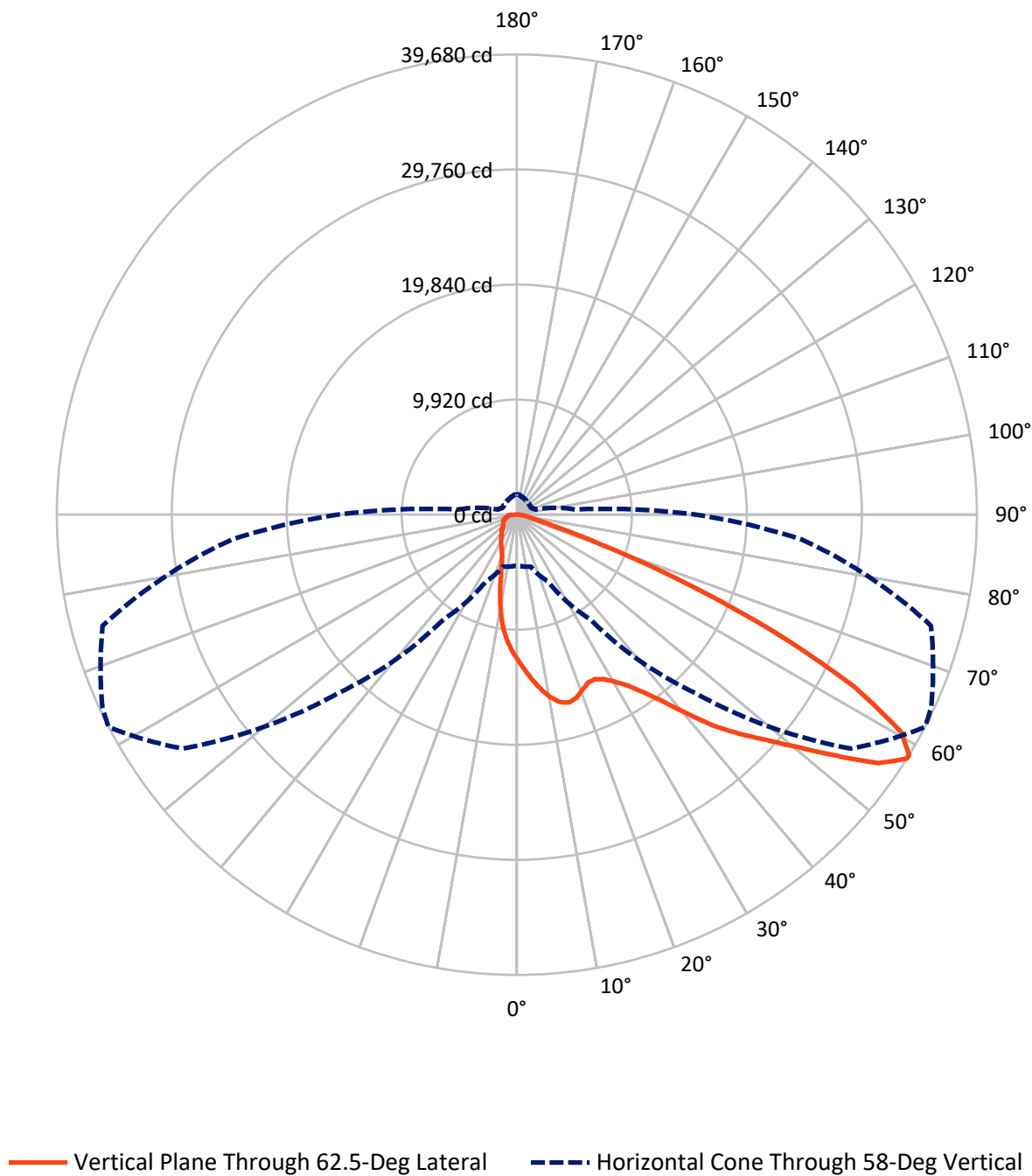


Based on 30 foot mounting height. Maximum calculated value = 17 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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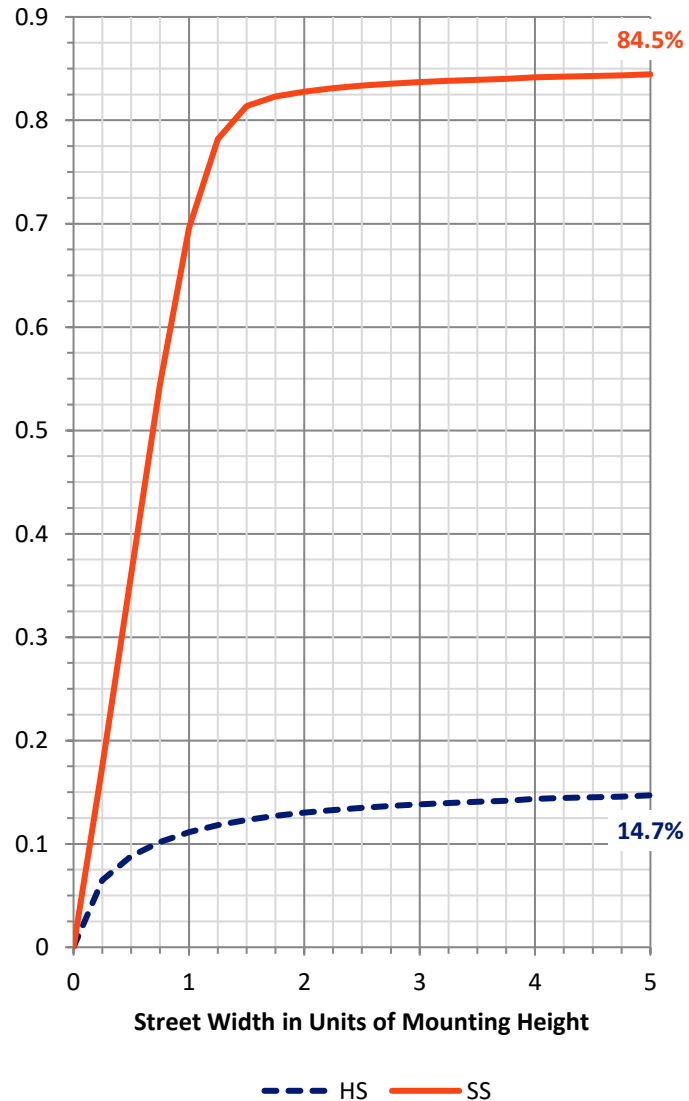
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7203.0   | 0.0    | 7203.0  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 40028.7  | 0.0    | 40028.7 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 47231.7  | 0.0    | 47231.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1122.1  | 2.4       |
| 10°-20°   | 2868.2  | 6.1       |
| 20°-30°   | 4636.5  | 9.8       |
| 30°-40°   | 7360.4  | 15.6      |
| 40°-50°   | 10769.8 | 22.8      |
| 50°-60°   | 11264.3 | 23.8      |
| 60°-70°   | 6655.0  | 14.1      |
| 70°-80°   | 1874.7  | 4.0       |
| 80°-90°   | 680.6   | 1.4       |
| 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°    | 47231.7 | 100.0     |
| 0°-180°   | 47231.7 | 100.0     |

**Coefficient of Utilization**



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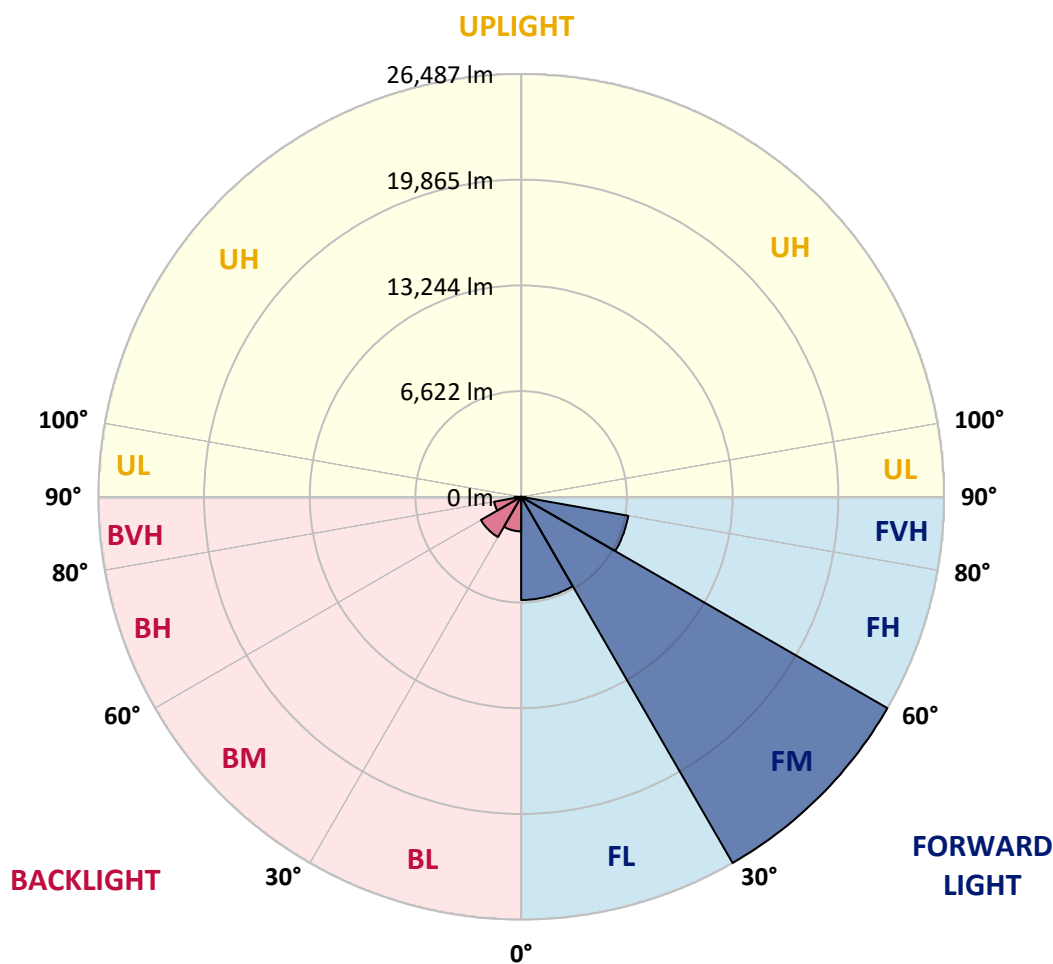
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6461.9  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 26487.3 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 6811.0  | 14.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 268.5   | 0.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2164.9  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2907.3  | 6.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1718.7  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 412.1   | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 |
| 2.5°  | 14336.6 | 14220.8 | 14147.4 | 14083.0 | 13998.6 | 13818.3 | 13575.9 | 13422.4 | 13344.6 | 13080.0 | 12766.3 |
| 5°    | 15742.2 | 15639.8 | 15564.2 | 15477.4 | 15326.3 | 15043.8 | 14652.3 | 14341.0 | 14187.6 | 13658.2 | 13031.1 |
| 7.5°  | 15412.9 | 15455.3 | 15586.5 | 15815.6 | 16011.3 | 15973.4 | 15624.3 | 15228.4 | 15026.0 | 14289.8 | 13338.0 |
| 10°   | 13429.0 | 13502.5 | 13729.4 | 14265.3 | 15132.7 | 16022.5 | 16293.8 | 16020.1 | 15815.6 | 14914.8 | 13653.7 |
| 12.5° | 13031.1 | 13028.7 | 13046.5 | 13188.9 | 13704.9 | 14957.0 | 16316.0 | 16591.8 | 16469.4 | 15510.9 | 13976.2 |
| 15°   | 13193.4 | 13197.8 | 13184.5 | 13244.5 | 13404.7 | 13900.6 | 15635.4 | 16811.9 | 16898.7 | 16111.4 | 14309.8 |
| 17.5° | 13620.4 | 13609.3 | 13558.1 | 13558.1 | 13615.9 | 13809.4 | 14834.7 | 16607.3 | 17007.7 | 16642.9 | 14603.4 |
| 20°   | 14336.6 | 14285.4 | 14149.7 | 14025.2 | 13962.9 | 14067.4 | 14505.6 | 16135.9 | 16818.6 | 17107.7 | 14845.8 |
| 22.5° | 15204.0 | 15163.9 | 14943.7 | 14676.8 | 14461.1 | 14458.9 | 14674.6 | 15724.4 | 16491.7 | 17546.0 | 15050.5 |
| 25°   | 16324.9 | 16260.4 | 15933.4 | 15506.4 | 15128.4 | 14983.7 | 15043.8 | 15704.4 | 16313.7 | 18021.9 | 15232.8 |
| 27.5° | 17641.5 | 17523.6 | 17136.7 | 16520.5 | 15964.5 | 15673.2 | 15586.5 | 16066.9 | 16476.1 | 18611.2 | 15486.4 |
| 30°   | 19238.5 | 19102.8 | 18606.9 | 17803.9 | 17018.8 | 16540.6 | 16356.0 | 16709.7 | 17014.4 | 19329.6 | 15893.4 |
| 32.5° | 21055.6 | 20859.8 | 20285.9 | 19400.8 | 18368.7 | 17639.4 | 17339.1 | 17559.3 | 17801.7 | 20194.8 | 16402.8 |
| 35°   | 23566.5 | 23333.0 | 22503.5 | 21282.4 | 20117.0 | 19114.0 | 18633.5 | 18793.5 | 19029.3 | 21484.7 | 17138.9 |
| 37.5° | 25279.1 | 25174.5 | 24623.0 | 23475.3 | 22207.6 | 21053.2 | 20310.4 | 20403.8 | 20537.4 | 23097.3 | 18081.9 |
| 40°   | 25263.5 | 25305.7 | 25316.9 | 25328.1 | 24465.2 | 23359.7 | 22561.3 | 22463.3 | 22436.7 | 24867.6 | 19153.9 |
| 42.5° | 23998.0 | 24171.5 | 24731.9 | 25868.4 | 26393.3 | 25886.2 | 25154.5 | 24872.1 | 24731.9 | 26953.8 | 20290.4 |
| 45°   | 22060.9 | 22154.3 | 23204.1 | 25423.6 | 27380.9 | 28388.4 | 27834.6 | 26945.0 | 26691.4 | 28871.0 | 21233.5 |
| 47.5° | 21062.2 | 21164.5 | 21825.1 | 24244.8 | 27369.8 | 30410.1 | 30730.4 | 29035.6 | 28581.9 | 30539.0 | 22047.5 |
| 50°   | 18684.7 | 18898.1 | 19729.9 | 22194.3 | 26371.2 | 31339.7 | 33757.4 | 31526.5 | 30588.0 | 32162.6 | 22863.7 |
| 52.5° | 14318.8 | 14648.0 | 15579.9 | 18822.5 | 23837.8 | 30879.4 | 36179.3 | 34546.9 | 33221.4 | 33844.1 | 23564.3 |
| 55°   | 9032.0  | 9276.6  | 10059.6 | 13293.5 | 19069.4 | 28484.0 | 37098.0 | 37814.1 | 36635.2 | 35436.6 | 24171.5 |
| 57.5° | 4910.7  | 5019.8  | 5313.4  | 7339.5  | 12403.7 | 23188.4 | 35759.0 | 39673.4 | 39184.2 | 36788.8 | 24629.7 |
| 58°   | 4394.9  | 4468.2  | 4650.6  | 6361.0  | 11000.4 | 21740.5 | 35165.2 | 39680.1 | 39435.5 | 36986.8 | 24665.3 |
| 60°   | 3260.6  | 3222.7  | 3060.4  | 3629.7  | 6122.9  | 15019.4 | 31575.5 | 38092.1 | 38810.5 | 37229.2 | 24491.8 |
| 62.5° | 2864.7  | 2773.4  | 2442.1  | 2404.2  | 2978.1  | 6919.2  | 24160.4 | 32629.7 | 34326.7 | 35845.8 | 23437.5 |
| 65°   | 2691.2  | 2593.3  | 2166.3  | 2028.4  | 2148.5  | 2926.9  | 14232.0 | 24471.8 | 26600.3 | 31651.1 | 20741.9 |
| 67.5° | 2562.1  | 2435.4  | 1990.6  | 1801.4  | 1810.4  | 1935.0  | 5704.9  | 15412.9 | 17808.3 | 24031.3 | 16133.7 |
| 70°   | 2437.6  | 2299.7  | 1841.6  | 1623.6  | 1572.5  | 1530.1  | 2268.5  | 7715.4  | 9888.3  | 15179.5 | 10286.4 |
| 72.5° | 2304.2  | 2168.5  | 1710.4  | 1483.5  | 1383.4  | 1243.3  | 1481.2  | 3156.0  | 4408.2  | 7181.6  | 4666.1  |
| 75°   | 2110.7  | 1988.3  | 1579.2  | 1358.9  | 1216.6  | 1029.8  | 1118.7  | 1648.0  | 1977.3  | 2860.2  | 2248.5  |
| 77.5° | 1872.7  | 1772.6  | 1432.3  | 1256.6  | 1078.7  | 836.3   | 860.8   | 1143.2  | 1267.7  | 1636.9  | 1336.7  |
| 80°   | 1345.5  | 1381.1  | 1274.4  | 1129.8  | 960.8   | 678.4   | 660.6   | 834.0   | 900.8   | 1051.9  | 869.6   |
| 82.5° | 945.2   | 965.3   | 1054.3  | 923.0   | 794.0   | 533.7   | 487.1   | 587.2   | 627.1   | 691.7   | 469.3   |
| 85°   | 651.6   | 629.5   | 722.9   | 642.8   | 573.8   | 355.8   | 333.6   | 398.1   | 422.7   | 429.3   | 242.4   |
| 87.5° | 391.4   | 391.4   | 418.1   | 344.7   | 309.2   | 184.6   | 180.2   | 226.8   | 242.4   | 231.3   | 133.4   |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 | 12546.1 |
| 2.5°  | 12579.4 | 12421.5 | 12085.7 | 11816.6 | 11476.4 | 11122.7 | 10924.8 | 10713.5 | 10568.8 | 10464.5 | 10631.2 |
| 5°    | 12675.1 | 12352.7 | 11658.7 | 11000.4 | 10273.1 | 9516.9  | 8943.1  | 8409.3  | 8037.8  | 7806.6  | 8024.5  |
| 7.5°  | 12826.4 | 12330.4 | 11225.0 | 10099.6 | 8794.1  | 7535.3  | 6409.8  | 5704.9  | 5293.4  | 5090.9  | 5217.7  |
| 10°   | 12999.8 | 12294.8 | 10715.7 | 8878.6  | 7010.4  | 5424.6  | 4583.9  | 4299.2  | 4205.7  | 4167.9  | 4185.7  |
| 12.5° | 13144.4 | 12219.2 | 10090.7 | 7401.8  | 5264.4  | 4283.6  | 4041.2  | 4034.5  | 4054.5  | 4059.0  | 4065.6  |
| 15°   | 13246.7 | 12108.0 | 9163.2  | 5862.8  | 4210.2  | 3903.3  | 3889.9  | 3929.9  | 3967.7  | 3983.4  | 3992.3  |
| 17.5° | 13315.7 | 11878.8 | 8115.8  | 4635.0  | 3772.0  | 3718.6  | 3749.8  | 3801.0  | 3841.0  | 3852.2  | 3861.0  |
| 20°   | 13309.0 | 11543.0 | 6868.0  | 3865.5  | 3534.1  | 3534.1  | 3587.4  | 3627.5  | 3629.7  | 3616.4  | 3623.0  |
| 22.5° | 13240.0 | 11082.7 | 5658.1  | 3456.2  | 3322.8  | 3360.6  | 3414.1  | 3376.2  | 3220.5  | 3118.2  | 3124.9  |
| 25°   | 13124.4 | 10533.3 | 4621.6  | 3196.1  | 3127.1  | 3193.7  | 3178.3  | 2893.5  | 2671.2  | 2571.1  | 2571.1  |
| 27.5° | 13022.1 | 9883.9  | 3825.5  | 2969.1  | 2931.3  | 3013.7  | 2737.8  | 2479.8  | 2386.4  | 2339.8  | 2324.2  |
| 30°   | 12948.7 | 9183.4  | 3293.8  | 2751.2  | 2746.8  | 2686.6  | 2375.3  | 2304.2  | 2288.6  | 2250.7  | 2237.4  |
| 32.5° | 12966.5 | 8473.8  | 2953.6  | 2560.0  | 2575.5  | 2299.7  | 2201.9  | 2217.4  | 2204.1  | 2164.1  | 2146.3  |
| 35°   | 13113.3 | 7799.9  | 2731.2  | 2386.4  | 2339.8  | 2077.3  | 2099.5  | 2128.5  | 2124.0  | 2068.4  | 2050.6  |
| 37.5° | 13375.7 | 7161.6  | 2584.4  | 2241.9  | 2041.7  | 1966.1  | 2001.7  | 2046.2  | 2035.1  | 1997.3  | 1983.9  |
| 40°   | 13651.5 | 6561.1  | 2464.4  | 2128.5  | 1866.0  | 1890.5  | 1921.7  | 1946.1  | 1957.2  | 1968.3  | 1959.4  |
| 42.5° | 13920.6 | 5933.9  | 2317.5  | 2012.8  | 1792.6  | 1819.2  | 1832.6  | 1857.1  | 1917.2  | 1959.4  | 1957.2  |
| 45°   | 14080.8 | 5344.5  | 2166.3  | 1848.2  | 1734.8  | 1750.4  | 1741.5  | 1790.4  | 1863.8  | 1932.7  | 1935.0  |
| 47.5° | 14258.7 | 4886.3  | 2046.2  | 1697.1  | 1679.2  | 1690.4  | 1663.6  | 1712.5  | 1779.3  | 1863.8  | 1872.7  |
| 50°   | 14474.4 | 4612.8  | 1950.5  | 1576.9  | 1603.6  | 1603.6  | 1597.0  | 1641.4  | 1734.8  | 1832.6  | 1850.5  |
| 52.5° | 14719.1 | 4559.4  | 1870.5  | 1490.2  | 1528.0  | 1525.7  | 1532.4  | 1599.1  | 1701.3  | 1797.1  | 1812.6  |
| 55°   | 15017.1 | 4703.9  | 1783.7  | 1425.7  | 1454.6  | 1463.4  | 1485.7  | 1561.4  | 1648.0  | 1757.0  | 1763.7  |
| 57.5° | 15364.0 | 4997.5  | 1714.9  | 1374.5  | 1387.8  | 1416.8  | 1452.4  | 1521.3  | 1614.8  | 1734.8  | 1741.5  |
| 58°   | 15422.0 | 5059.8  | 1703.7  | 1370.0  | 1374.5  | 1407.8  | 1447.9  | 1514.7  | 1608.0  | 1739.3  | 1746.0  |
| 60°   | 15424.1 | 5266.7  | 1679.2  | 1350.0  | 1323.3  | 1379.0  | 1423.4  | 1490.2  | 1597.0  | 1754.8  | 1770.3  |
| 62.5° | 14877.0 | 5264.4  | 1661.4  | 1321.2  | 1269.9  | 1338.9  | 1390.1  | 1467.9  | 1585.8  | 1792.6  | 1823.7  |
| 65°   | 13099.9 | 4784.0  | 1576.9  | 1276.5  | 1227.7  | 1303.4  | 1361.2  | 1452.4  | 1616.9  | 1957.2  | 1977.3  |
| 67.5° | 10246.5 | 3921.1  | 1419.0  | 1214.3  | 1172.2  | 1267.7  | 1343.4  | 1450.1  | 1650.3  | 1995.0  | 2008.4  |
| 70°   | 6774.6  | 2933.6  | 1245.4  | 1143.2  | 1114.2  | 1225.5  | 1352.3  | 1525.7  | 1612.4  | 1915.0  | 1879.4  |
| 72.5° | 3516.3  | 2059.5  | 1105.3  | 1054.3  | 1047.6  | 1187.6  | 1481.2  | 1516.8  | 1574.7  | 1801.4  | 1757.0  |
| 75°   | 1846.1  | 1430.1  | 983.0   | 956.3   | 967.5   | 1178.8  | 1748.1  | 1476.7  | 1525.7  | 1723.7  | 1808.2  |
| 77.5° | 1129.8  | 1154.4  | 878.6   | 867.4   | 889.6   | 1152.0  | 1746.0  | 1425.7  | 1454.6  | 1585.8  | 1679.2  |
| 80°   | 756.2   | 936.4   | 798.4   | 800.7   | 816.2   | 1054.3  | 1568.0  | 1345.5  | 1367.8  | 1499.0  | 1594.6  |
| 82.5° | 478.2   | 553.8   | 725.1   | 762.8   | 742.9   | 869.6   | 1332.2  | 1225.5  | 1256.6  | 1714.9  | 1812.6  |
| 85°   | 242.4   | 347.0   | 629.5   | 734.0   | 669.4   | 609.4   | 1080.9  | 1074.2  | 1089.9  | 1236.6  | 1292.2  |
| 87.5° | 111.2   | 191.3   | 491.5   | 640.6   | 504.9   | 380.3   | 785.1   | 796.3   | 858.4   | 878.6   | 878.6   |
| 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)