

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: P193247

Luminaire Tested: **GAN-AF-09-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-T3R-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57726 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 575  
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

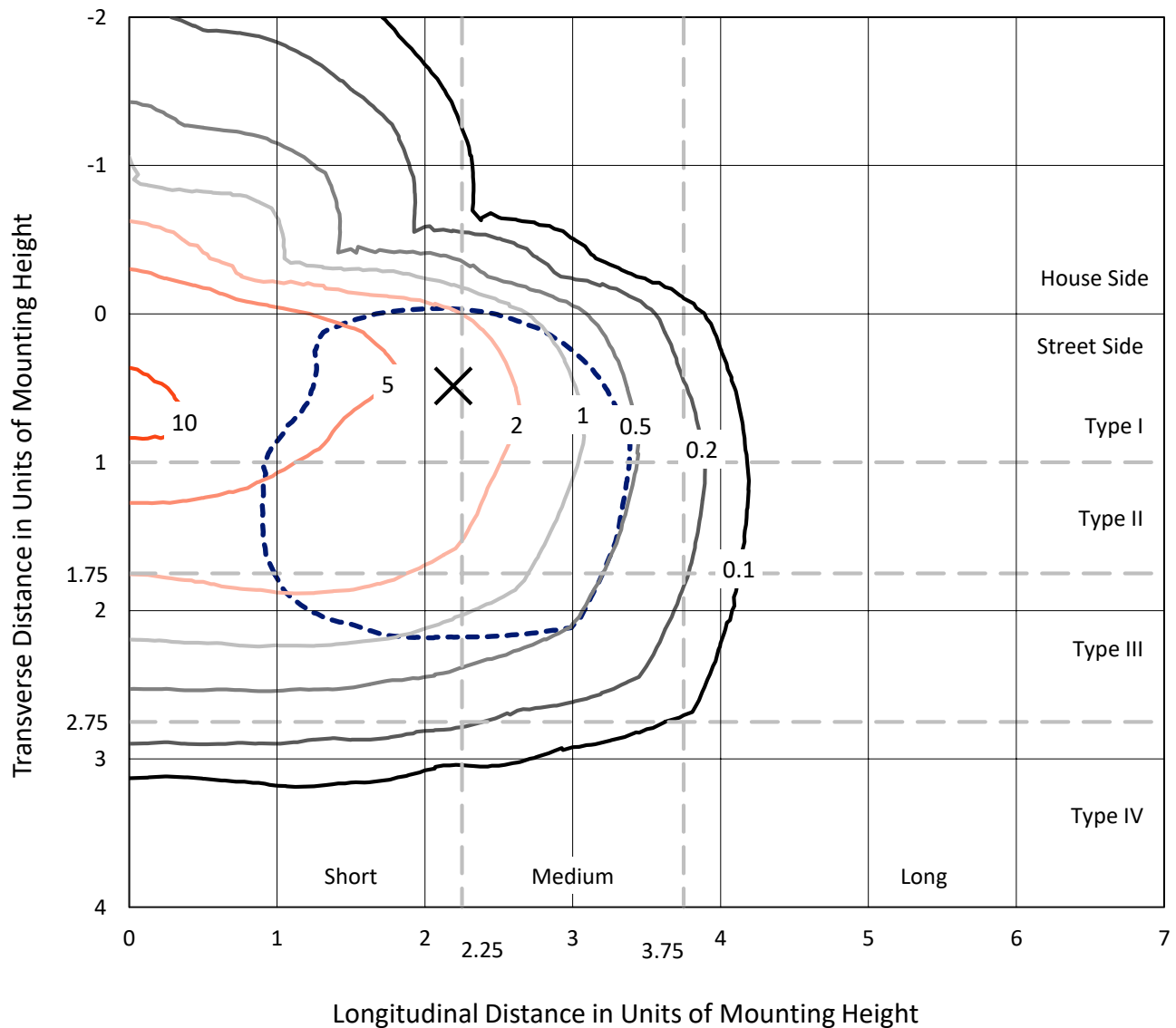


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

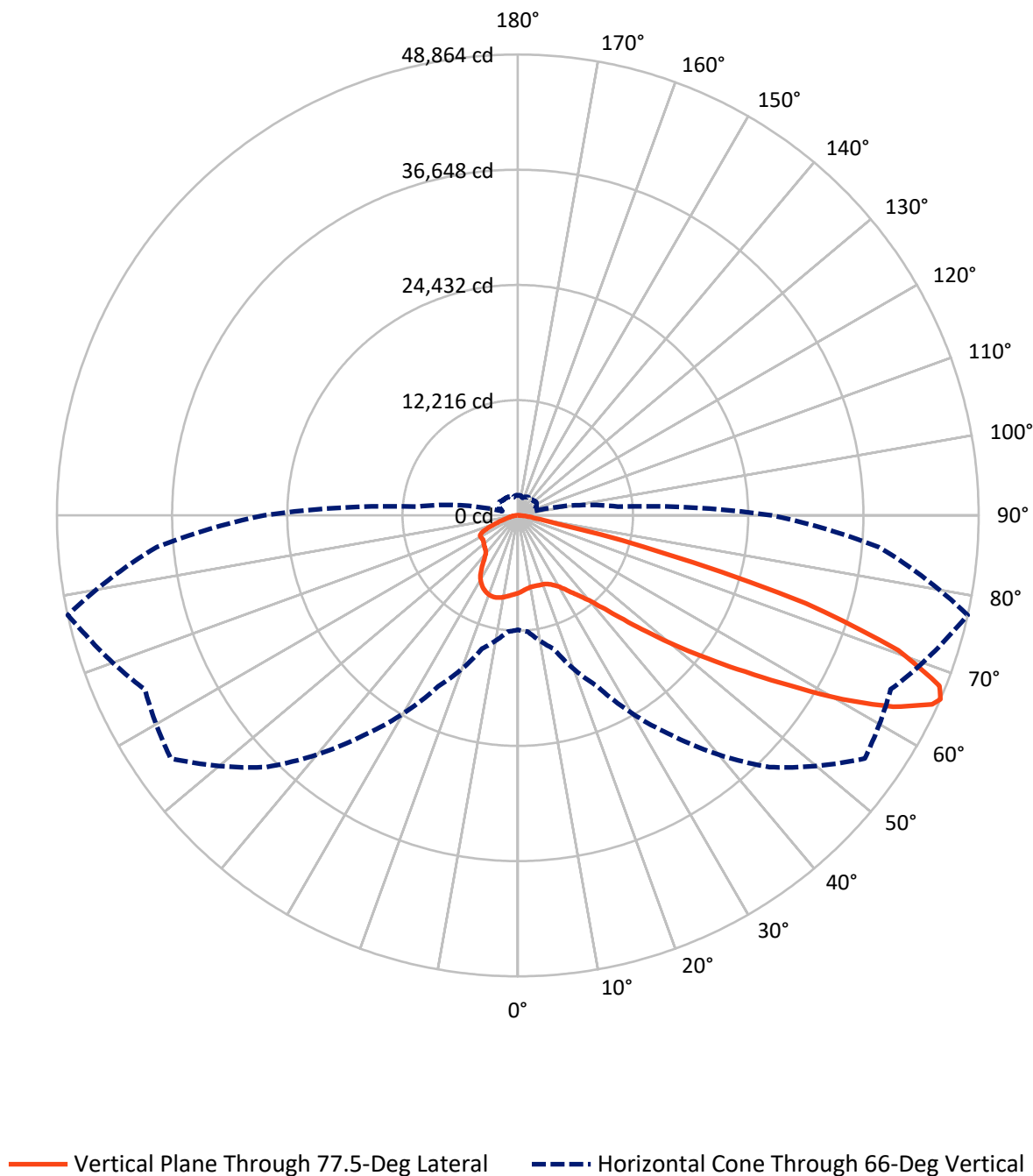


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9862.1   | 0.0    | 9862.1  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 47863.9  | 0.0    | 47863.9 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 57726.0  | 0.0    | 57726.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 734.9   | 1.3       |
| 10°-20°   | 2073.4  | 3.6       |
| 20°-30°   | 3538.6  | 6.1       |
| 30°-40°   | 5664.6  | 9.8       |
| 40°-50°   | 8751.3  | 15.2      |
| 50°-60°   | 12412.4 | 21.5      |
| 60°-70°   | 16604.5 | 28.8      |
| 70°-80°   | 7211.0  | 12.5      |
| 80°-90°   | 735.3   | 1.3       |
| 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°    | 57726.0 | 100.0     |
| 0°-180°   | 57726.0 | 100.0     |

**Coefficient of Utilization**



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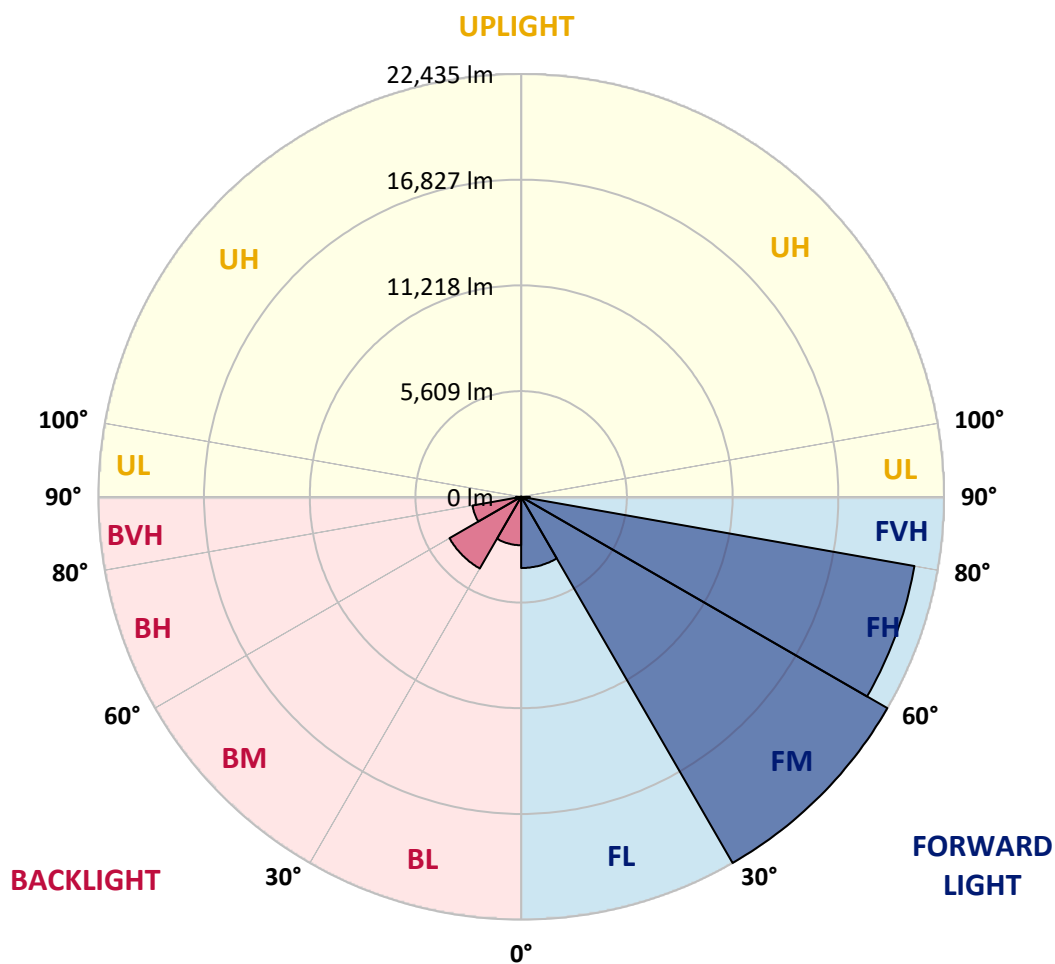
CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7030-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3778.4  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 22435.4 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 21189.0 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 461.2   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2568.5  | 4.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4393.0  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2626.5  | 4.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 274.1   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  | 8226.2  |
| 2.5°  | 7277.1  | 7326.2  | 7367.1  | 7405.3  | 7481.6  | 7607.0  | 7751.6  | 7869.0  | 8037.9  | 8070.8  | 8160.8  |
| 5°    | 6608.8  | 6608.8  | 6641.6  | 6698.8  | 6802.5  | 6990.6  | 7187.1  | 7448.9  | 7817.1  | 7904.4  | 8144.4  |
| 7.5°  | 6284.3  | 6287.0  | 6306.0  | 6355.2  | 6445.2  | 6617.0  | 6832.4  | 7140.6  | 7639.9  | 7784.4  | 8193.5  |
| 10°   | 6404.2  | 6376.9  | 6336.1  | 6311.5  | 6325.1  | 6426.1  | 6630.6  | 6974.3  | 7530.7  | 7716.2  | 8302.6  |
| 12.5° | 7075.2  | 7023.4  | 6881.5  | 6693.3  | 6513.4  | 6439.7  | 6559.7  | 6895.3  | 7484.4  | 7699.8  | 8447.2  |
| 15°   | 8171.7  | 8149.8  | 7885.2  | 7495.3  | 7058.8  | 6693.3  | 6611.5  | 6865.2  | 7489.8  | 7718.9  | 8619.0  |
| 17.5° | 9546.3  | 9516.4  | 9167.2  | 8599.9  | 7888.0  | 7176.1  | 6794.3  | 6889.8  | 7508.9  | 7751.6  | 8785.4  |
| 20°   | 10934.6 | 10841.9 | 10465.5 | 9789.1  | 8875.3  | 7833.5  | 7097.1  | 6952.5  | 7533.4  | 7787.1  | 8960.0  |
| 22.5° | 11971.1 | 11894.7 | 11556.6 | 10899.2 | 9846.3  | 8594.5  | 7503.5  | 7061.5  | 7612.5  | 7890.7  | 9175.4  |
| 25°   | 12882.1 | 12887.5 | 12552.1 | 11916.6 | 10828.2 | 9401.8  | 8027.2  | 7353.4  | 7814.3  | 8103.5  | 9469.9  |
| 27.5° | 14008.5 | 13943.1 | 13629.4 | 12999.4 | 11799.4 | 10217.4 | 8659.9  | 7754.3  | 8114.3  | 8406.3  | 9857.3  |
| 30°   | 15356.0 | 15309.6 | 14946.8 | 14232.2 | 12876.6 | 11092.9 | 9382.7  | 8220.7  | 8501.7  | 8804.4  | 10364.7 |
| 32.5° | 16940.6 | 16918.9 | 16542.5 | 15623.3 | 14120.4 | 12123.9 | 10230.9 | 8837.2  | 9080.0  | 9393.6  | 11092.9 |
| 35°   | 18800.9 | 18803.6 | 18359.1 | 17254.3 | 15481.5 | 13323.9 | 11193.8 | 9630.8  | 9783.6  | 10111.0 | 11960.2 |
| 37.5° | 19946.5 | 20085.5 | 19919.2 | 18792.7 | 17022.5 | 14666.0 | 12443.0 | 10683.7 | 10585.6 | 10915.5 | 12890.3 |
| 40°   | 20191.8 | 20361.0 | 20887.4 | 20314.7 | 18746.3 | 16144.2 | 13550.4 | 11695.6 | 11573.0 | 11976.6 | 14087.7 |
| 42.5° | 19848.2 | 20082.8 | 21195.6 | 21599.4 | 20576.5 | 17966.3 | 15039.6 | 13198.5 | 13043.1 | 13585.9 | 15577.0 |
| 45°   | 19643.7 | 19818.2 | 21105.6 | 22267.6 | 22163.9 | 20025.6 | 16935.3 | 15086.0 | 15028.7 | 15740.6 | 17295.3 |
| 47.5° | 19289.0 | 19447.3 | 20685.6 | 22423.1 | 23096.8 | 21913.0 | 19212.7 | 17393.4 | 17505.3 | 18438.1 | 19234.5 |
| 50°   | 19480.1 | 19545.5 | 20216.5 | 22027.5 | 23366.7 | 23295.8 | 21757.6 | 20066.4 | 20448.3 | 21613.0 | 21430.2 |
| 52.5° | 19452.7 | 19621.9 | 20161.9 | 21378.4 | 23402.2 | 24149.6 | 24264.1 | 23047.7 | 23852.3 | 25188.7 | 23865.9 |
| 55°   | 15727.0 | 16037.8 | 19521.0 | 21214.8 | 23527.7 | 24986.9 | 26495.3 | 26189.8 | 27689.9 | 29247.3 | 26615.2 |
| 57.5° | 15017.8 | 15214.2 | 17145.3 | 21558.4 | 24193.2 | 26585.3 | 28977.3 | 29648.3 | 32157.6 | 33966.0 | 29964.7 |
| 60°   | 14878.7 | 15121.5 | 17120.7 | 21978.5 | 25543.2 | 29190.0 | 32656.7 | 33835.1 | 37593.6 | 39573.7 | 33848.6 |
| 62.5° | 14445.0 | 14706.9 | 16959.8 | 21923.9 | 27460.7 | 32793.1 | 37367.2 | 38286.4 | 42748.6 | 44674.3 | 37097.2 |
| 65°   | 13070.3 | 13315.8 | 15647.9 | 21042.9 | 28753.6 | 36638.9 | 42942.2 | 42366.7 | 46818.0 | 48266.4 | 38717.3 |
| 66°   | 12129.3 | 12369.4 | 14614.1 | 20006.5 | 28453.7 | 37730.0 | 44917.0 | 43629.6 | 47729.1 | 48863.7 | 38401.0 |
| 67.5° | 10408.2 | 10596.5 | 12606.7 | 17685.4 | 26858.0 | 38035.5 | 46578.1 | 44578.8 | 47824.5 | 48225.5 | 36592.6 |
| 70°   | 6576.1  | 6630.6  | 8193.5  | 12208.4 | 20331.1 | 32986.8 | 44049.6 | 42222.1 | 43880.4 | 42795.0 | 30676.5 |
| 72.5° | 2853.0  | 2833.8  | 3933.2  | 6210.7  | 11510.1 | 22134.0 | 35632.5 | 34838.7 | 34421.5 | 31944.9 | 21473.9 |
| 75°   | 1587.4  | 1609.3  | 2042.9  | 2883.1  | 4677.7  | 10872.0 | 23309.5 | 22305.8 | 18833.6 | 16070.6 | 9737.3  |
| 77.5° | 1273.8  | 1303.8  | 1693.8  | 2045.7  | 2100.2  | 3791.3  | 10907.4 | 8875.3  | 5343.3  | 4287.7  | 2705.7  |
| 80°   | 1006.5  | 1061.0  | 1478.3  | 1592.9  | 1415.6  | 1562.9  | 3523.9  | 2817.6  | 2113.8  | 1939.3  | 1401.9  |
| 82.5° | 796.4   | 834.6   | 1268.3  | 1205.5  | 990.1   | 1052.8  | 1688.4  | 1644.7  | 1374.7  | 1251.9  | 810.0   |
| 85°   | 572.7   | 643.6   | 1041.9  | 908.3   | 649.1   | 709.2   | 1121.0  | 1074.7  | 788.3   | 643.6   | 357.3   |
| 87.5° | 234.6   | 305.5   | 736.4   | 602.8   | 362.7   | 330.1   | 559.2   | 526.4   | 373.6   | 272.7   | 177.3   |
| 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°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8226.2  | 8226.2  | 8226.2 | 8226.2 | 8226.2 | 8226.2 | 8226.2 | 8226.2 | 8226.2 | 8226.2 | 8226.2 |
| 2.5°  | 8218.1  | 8283.5  | 8368.0 | 8419.8 | 8447.2 | 8466.3 | 8496.2 | 8493.5 | 8501.7 | 8504.4 | 8515.3 |
| 5°    | 8272.6  | 8381.8  | 8504.4 | 8537.2 | 8537.2 | 8507.2 | 8477.2 | 8428.0 | 8409.0 | 8403.5 | 8409.0 |
| 7.5°  | 8414.4  | 8534.5  | 8640.8 | 8602.6 | 8520.8 | 8400.8 | 8245.4 | 8109.0 | 8035.3 | 8010.8 | 8005.3 |
| 10°   | 8594.5  | 8739.0  | 8782.7 | 8638.1 | 8398.1 | 8109.0 | 7800.8 | 7577.1 | 7448.9 | 7413.5 | 7402.6 |
| 12.5° | 8812.7  | 8949.0  | 8889.0 | 8583.5 | 8138.9 | 7672.5 | 7247.0 | 6889.8 | 6622.4 | 6537.8 | 6532.4 |
| 15°   | 9052.6  | 9159.1  | 8949.0 | 8414.4 | 7751.6 | 7064.2 | 6306.0 | 5689.6 | 5356.9 | 5250.5 | 5242.4 |
| 17.5° | 9276.3  | 9330.8  | 8913.6 | 8119.8 | 7181.6 | 6068.8 | 5062.3 | 4587.7 | 4473.2 | 4500.4 | 4505.9 |
| 20°   | 9467.4  | 9467.4  | 8793.5 | 7697.1 | 6284.3 | 4756.8 | 4121.3 | 4113.1 | 4194.9 | 4276.7 | 4293.2 |
| 22.5° | 9677.3  | 9551.8  | 8583.5 | 7099.7 | 5013.3 | 3892.2 | 3799.5 | 3875.9 | 3968.6 | 4058.6 | 4072.2 |
| 25°   | 9936.4  | 9619.9  | 8291.6 | 6194.2 | 3941.3 | 3534.9 | 3570.4 | 3633.1 | 3679.5 | 3736.6 | 3744.9 |
| 27.5° | 10225.5 | 9707.2  | 7907.1 | 4947.7 | 3420.4 | 3311.2 | 3338.5 | 3360.3 | 3355.0 | 3376.6 | 3382.1 |
| 30°   | 10571.9 | 9808.2  | 7380.7 | 3867.7 | 3204.9 | 3120.3 | 3071.2 | 3052.1 | 3052.1 | 3087.5 | 3101.3 |
| 32.5° | 11035.6 | 9958.2  | 6625.2 | 3314.0 | 3101.3 | 2983.9 | 2825.8 | 2754.8 | 2782.1 | 2902.2 | 2929.3 |
| 35°   | 11545.7 | 10119.1 | 5602.4 | 3125.8 | 3079.4 | 2921.1 | 2675.8 | 2544.7 | 2547.5 | 2659.4 | 2694.8 |
| 37.5° | 12102.1 | 10323.7 | 4481.4 | 3090.3 | 3128.5 | 2923.9 | 2596.6 | 2416.6 | 2342.9 | 2342.9 | 2356.6 |
| 40°   | 12813.9 | 10533.6 | 3627.6 | 3114.9 | 3232.1 | 2956.7 | 2555.7 | 2315.6 | 2108.3 | 2113.8 | 2124.8 |
| 42.5° | 13741.3 | 10713.8 | 3169.4 | 3166.7 | 3357.5 | 3000.3 | 2553.0 | 2182.0 | 2001.9 | 2124.8 | 2236.5 |
| 45°   | 14772.3 | 10803.8 | 2967.6 | 3213.0 | 3458.5 | 3027.6 | 2509.3 | 2160.2 | 2015.7 | 2381.1 | 2594.0 |
| 47.5° | 15958.7 | 10751.8 | 2855.7 | 3229.3 | 3483.0 | 3027.6 | 2460.2 | 2212.1 | 2111.1 | 2757.4 | 3005.7 |
| 50°   | 17259.8 | 10601.9 | 2746.7 | 3196.7 | 3474.9 | 3022.1 | 2506.6 | 2263.9 | 2146.6 | 2823.0 | 2994.8 |
| 52.5° | 18790.0 | 10476.5 | 2632.0 | 3125.8 | 3417.6 | 2992.1 | 2561.1 | 2242.0 | 2034.7 | 2566.6 | 2686.5 |
| 55°   | 20535.6 | 10512.0 | 2503.9 | 3024.9 | 3327.6 | 2934.8 | 2542.0 | 2154.7 | 1917.5 | 2261.1 | 2334.8 |
| 57.5° | 22766.7 | 10934.6 | 2351.2 | 2896.7 | 3204.9 | 2839.3 | 2473.8 | 2113.8 | 1882.0 | 2051.2 | 2094.7 |
| 60°   | 25256.9 | 11671.1 | 2160.2 | 2768.4 | 3052.1 | 2686.5 | 2422.1 | 2133.0 | 1898.4 | 2034.7 | 2056.6 |
| 62.5° | 27084.4 | 12099.4 | 1996.6 | 2580.2 | 2844.8 | 2517.6 | 2356.6 | 2157.5 | 1942.0 | 2092.0 | 2086.6 |
| 65°   | 27580.8 | 11395.6 | 1792.0 | 2304.8 | 2563.9 | 2340.3 | 2274.8 | 2184.7 | 1961.1 | 2138.4 | 2113.8 |
| 66°   | 26885.3 | 10637.4 | 1701.9 | 2176.6 | 2422.1 | 2252.9 | 2233.8 | 2182.0 | 1952.9 | 2143.8 | 2102.9 |
| 67.5° | 25197.0 | 9082.7  | 1546.6 | 1988.4 | 2195.7 | 2122.1 | 2168.4 | 2157.5 | 1931.0 | 2138.4 | 2081.1 |
| 70°   | 20549.3 | 6196.9  | 1322.8 | 1655.6 | 1827.5 | 1868.4 | 2042.9 | 2070.3 | 1860.1 | 2042.9 | 1917.5 |
| 72.5° | 14357.8 | 3774.9  | 1170.0 | 1284.7 | 1478.3 | 1592.9 | 1871.1 | 1950.2 | 1764.7 | 1783.7 | 1663.8 |
| 75°   | 6938.8  | 2004.7  | 1061.0 | 995.6  | 1148.4 | 1331.0 | 1663.8 | 1786.5 | 1614.8 | 1491.9 | 1448.3 |
| 77.5° | 2162.9  | 1224.7  | 900.1  | 801.9  | 900.1  | 1074.7 | 1391.1 | 1565.5 | 1437.5 | 1249.2 | 1232.9 |
| 80°   | 1162.0  | 900.1   | 692.8  | 643.6  | 712.0  | 842.8  | 1093.8 | 1306.5 | 1235.6 | 1121.0 | 1001.1 |
| 82.5° | 766.5   | 583.7   | 512.8  | 499.1  | 542.8  | 643.6  | 812.8  | 1082.9 | 1082.9 | 960.1  | 698.2  |
| 85°   | 395.5   | 357.3   | 351.9  | 351.9  | 379.1  | 428.2  | 553.7  | 834.6  | 889.2  | 507.3  | 420.0  |
| 87.5° | 196.3   | 204.6   | 190.8  | 199.1  | 212.7  | 210.0  | 264.5  | 420.0  | 501.8  | 308.2  | 256.4  |
| 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)