

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: P193124

Luminaire Tested: **GAN-AF-06-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193124  
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-06-LED-U-T2-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 37066.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 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): 382  
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



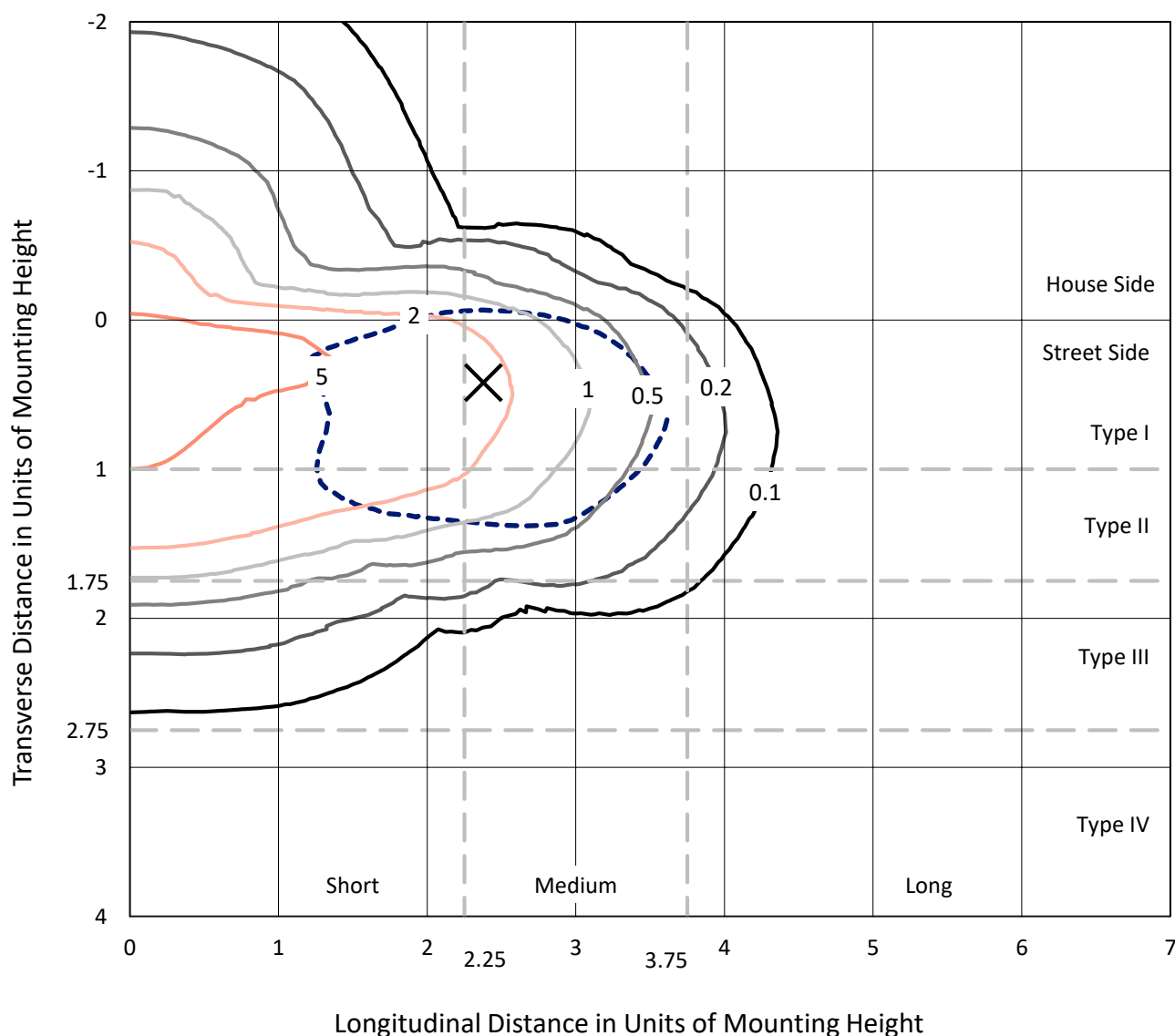
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

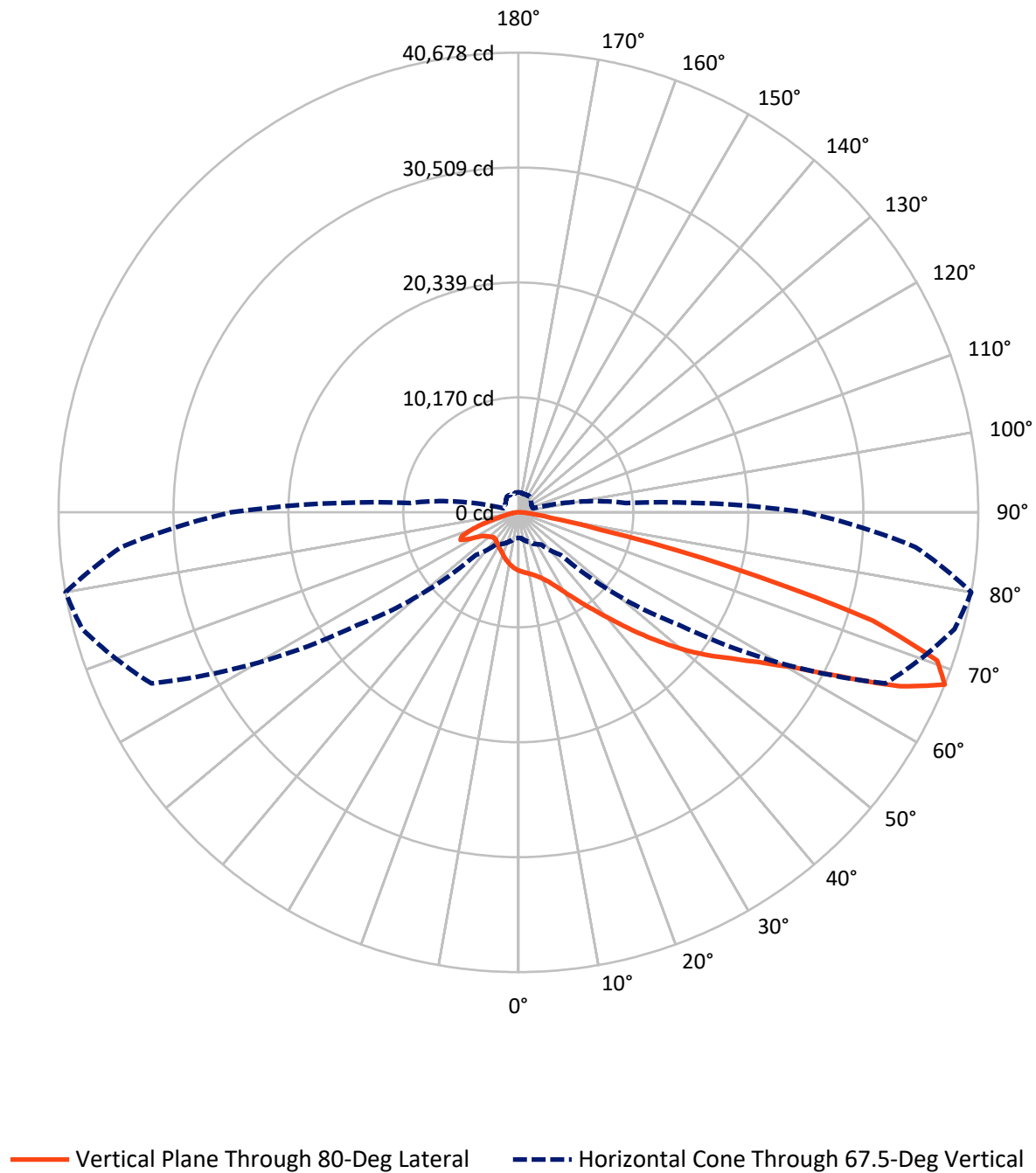


Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6826.2   | 0.0    | 6826.2  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 30240.0  | 0.0    | 30240.0 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 37066.2  | 0.0    | 37066.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.0   | 1.3       |
| 10°-20°   | 1368.4  | 3.7       |
| 20°-30°   | 2265.0  | 6.1       |
| 30°-40°   | 3705.0  | 10.0      |
| 40°-50°   | 5982.1  | 16.1      |
| 50°-60°   | 8636.3  | 23.3      |
| 60°-70°   | 9530.7  | 25.7      |
| 70°-80°   | 4393.1  | 11.9      |
| 80°-90°   | 710.5   | 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°    | 37066.2 | 100.0     |
| 0°-180°   | 37066.2 | 100.0     |

**Coefficient of Utilization**



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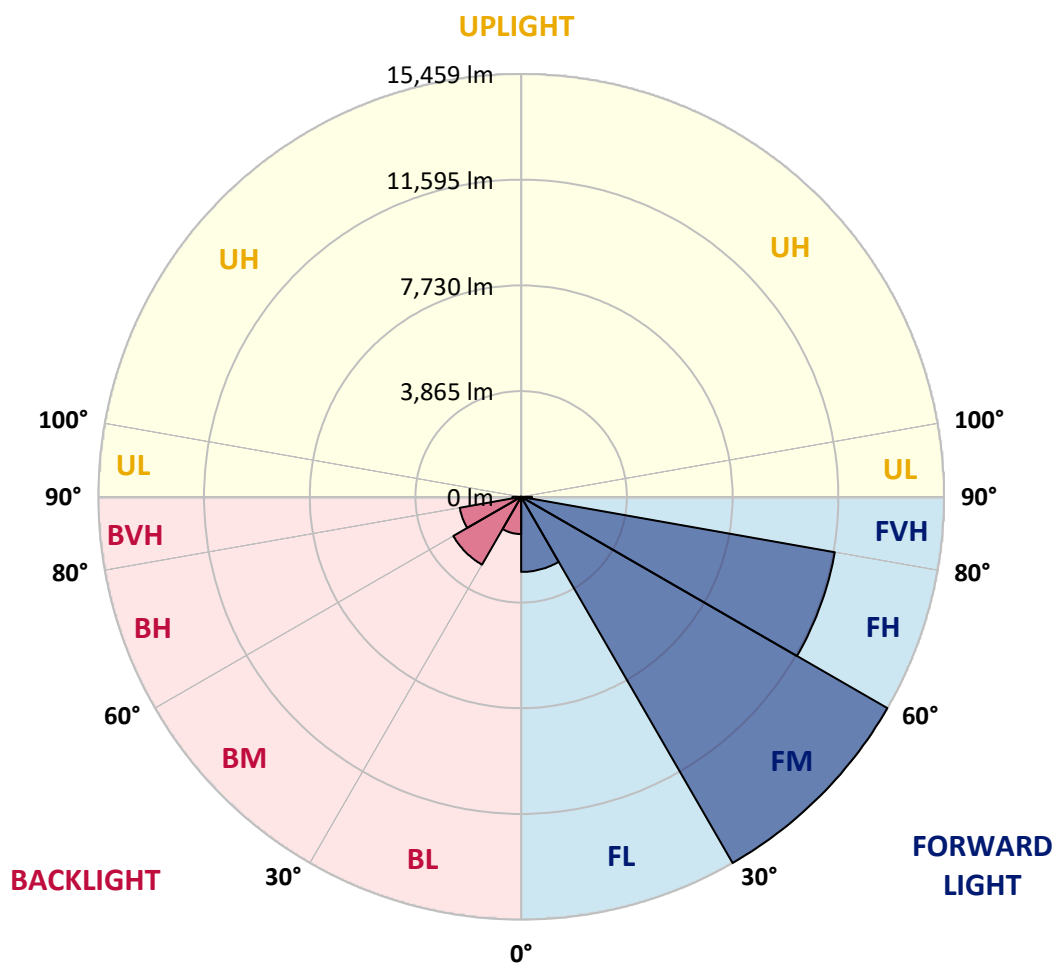
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2746.5  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 15459.4 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 11643.4 | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 390.6   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1361.9  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2864.0  | 7.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2280.4  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 319.9   | 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°    | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  | 5149.6  |
| 2.5°  | 5633.2  | 5600.3  | 5605.8  | 5596.7  | 5569.3  | 5521.9  | 5470.7  | 5377.6  | 5280.9  | 5229.9  | 5189.7  |
| 5°    | 6104.0  | 6094.8  | 6082.0  | 6052.9  | 5983.5  | 5884.9  | 5762.7  | 5598.5  | 5421.5  | 5328.3  | 5239.0  |
| 7.5°  | 6456.1  | 6450.6  | 6434.3  | 6416.0  | 6348.5  | 6229.9  | 6045.6  | 5811.9  | 5554.6  | 5426.9  | 5288.2  |
| 10°   | 6485.3  | 6494.5  | 6507.3  | 6556.5  | 6565.6  | 6501.8  | 6313.8  | 6031.0  | 5693.4  | 5529.2  | 5352.2  |
| 12.5° | 6237.2  | 6257.3  | 6306.5  | 6432.4  | 6565.6  | 6644.0  | 6547.4  | 6260.9  | 5855.8  | 5656.9  | 5432.4  |
| 15°   | 5908.7  | 5919.6  | 5979.9  | 6153.3  | 6392.2  | 6635.0  | 6726.2  | 6514.5  | 6065.6  | 5821.2  | 5552.9  |
| 17.5° | 5768.3  | 5773.7  | 5815.7  | 5930.6  | 6153.3  | 6500.0  | 6826.5  | 6790.0  | 6323.0  | 6025.4  | 5700.7  |
| 20°   | 5697.0  | 5709.8  | 5770.0  | 5883.2  | 6023.7  | 6326.5  | 6841.2  | 7087.5  | 6629.6  | 6281.0  | 5886.8  |
| 22.5° | 5899.6  | 5894.1  | 5916.0  | 5972.5  | 6091.2  | 6273.6  | 6830.3  | 7394.1  | 7020.0  | 6609.4  | 6129.5  |
| 25°   | 6372.2  | 6392.2  | 6354.0  | 6290.0  | 6328.4  | 6456.1  | 6888.6  | 7726.2  | 7509.1  | 7031.0  | 6447.0  |
| 27.5° | 7045.6  | 7025.5  | 6968.9  | 6819.3  | 6740.7  | 6795.5  | 7082.0  | 8083.9  | 8116.7  | 7585.7  | 6866.7  |
| 30°   | 7717.1  | 7700.6  | 7645.9  | 7463.4  | 7302.8  | 7257.2  | 7457.9  | 8494.5  | 8841.1  | 8251.7  | 7381.3  |
| 32.5° | 8414.2  | 8395.9  | 8344.7  | 8162.3  | 7969.0  | 7863.1  | 7992.7  | 8968.9  | 9695.1  | 9047.3  | 7987.2  |
| 35°   | 9273.6  | 9239.0  | 9131.3  | 8877.7  | 8687.9  | 8605.7  | 8666.0  | 9565.5  | 10680.5 | 9988.9  | 8722.5  |
| 37.5° | 10082.0 | 10134.9 | 10025.4 | 9675.0  | 9428.7  | 9399.6  | 9467.0  | 10293.7 | 11742.5 | 11041.8 | 9567.4  |
| 40°   | 10894.0 | 10903.2 | 10804.6 | 10518.2 | 10264.5 | 10217.1 | 10386.7 | 11176.9 | 12996.2 | 12301.0 | 10594.8 |
| 42.5° | 11733.5 | 11751.7 | 11585.7 | 11321.0 | 11134.9 | 11144.0 | 11337.5 | 12211.6 | 14434.1 | 13784.4 | 11777.3 |
| 45°   | 12727.9 | 12755.4 | 12572.8 | 12226.1 | 12056.4 | 12397.6 | 12317.4 | 13372.1 | 16010.8 | 15470.6 | 13134.9 |
| 47.5° | 13768.1 | 13810.1 | 13671.4 | 13346.6 | 13134.9 | 13603.9 | 13297.3 | 14658.6 | 17707.8 | 17279.1 | 14625.8 |
| 50°   | 14335.6 | 14395.8 | 14530.8 | 14507.1 | 14461.5 | 14383.0 | 14390.3 | 16038.1 | 19457.8 | 19162.2 | 16158.6 |
| 52.5° | 14030.8 | 14029.0 | 14521.7 | 15120.3 | 15758.9 | 15806.4 | 15722.4 | 17492.5 | 21092.8 | 21003.5 | 17602.0 |
| 55°   | 12636.7 | 12731.7 | 13477.9 | 14636.7 | 16381.2 | 17470.5 | 17718.8 | 19158.5 | 22698.6 | 22802.6 | 19067.3 |
| 57.5° | 10315.6 | 10394.1 | 11401.3 | 13016.3 | 15541.8 | 18459.7 | 20558.1 | 21580.1 | 24494.3 | 24979.6 | 21017.9 |
| 60°   | 6996.3  | 7091.2  | 8158.6  | 10098.4 | 13282.6 | 17908.5 | 23260.6 | 25901.1 | 26643.9 | 27747.8 | 23755.1 |
| 62.5° | 4111.3  | 4196.9  | 5067.5  | 6370.4  | 9352.0  | 15348.3 | 24446.8 | 32048.9 | 30058.0 | 31924.8 | 27930.3 |
| 65°   | 2830.3  | 2888.7  | 3311.9  | 3965.2  | 5374.0  | 10337.4 | 22976.0 | 36293.4 | 35311.6 | 37100.0 | 32771.5 |
| 67.5° | 2277.3  | 2270.1  | 2605.9  | 3051.1  | 3459.8  | 5330.2  | 17373.9 | 35813.4 | 39932.0 | 40678.4 | 35284.3 |
| 70°   | 1875.9  | 1868.6  | 2096.6  | 2465.3  | 2764.6  | 3001.8  | 9463.4  | 30222.3 | 38990.4 | 39293.4 | 32970.4 |
| 72.5° | 1569.3  | 1576.6  | 1722.6  | 1996.2  | 2268.2  | 2260.9  | 4158.7  | 21260.6 | 30673.0 | 32767.8 | 26282.6 |
| 75°   | 1324.8  | 1328.5  | 1425.2  | 1618.5  | 1841.2  | 1821.2  | 2255.4  | 11518.1 | 17830.1 | 19288.1 | 14569.1 |
| 77.5° | 1127.8  | 1131.4  | 1193.4  | 1301.1  | 1459.8  | 1452.5  | 1646.0  | 4976.2  | 7437.9  | 7346.6  | 4983.6  |
| 80°   | 1005.5  | 1005.5  | 1034.6  | 1054.7  | 1142.3  | 1109.5  | 1220.8  | 2390.5  | 3144.2  | 2903.2  | 1989.1  |
| 82.5° | 788.3   | 791.9   | 970.8   | 963.4   | 899.6   | 857.6   | 857.6   | 1408.8  | 1665.9  | 1540.1  | 1164.2  |
| 85°   | 443.4   | 441.6   | 625.9   | 755.4   | 791.9   | 603.9   | 598.5   | 788.3   | 907.0   | 799.2   | 563.9   |
| 87.5° | 189.8   | 193.4   | 290.2   | 335.8   | 448.9   | 376.0   | 370.4   | 406.9   | 461.6   | 399.7   | 260.9   |
| 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°    | 5149.6  | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 | 5149.6 |
| 2.5°  | 5151.3  | 5103.9 | 4999.9 | 4870.3 | 4753.6 | 4677.0 | 4607.6 | 4507.3 | 4512.7 | 4443.3 | 4392.3 |
| 5°    | 5147.8  | 5049.2 | 4808.4 | 4521.8 | 4246.3 | 4047.4 | 3897.8 | 3762.8 | 3729.9 | 3665.9 | 3627.7 |
| 7.5°  | 5151.3  | 4990.9 | 4585.7 | 4127.7 | 3786.5 | 3534.6 | 3406.9 | 3335.6 | 3319.3 | 3297.5 | 3299.2 |
| 10°   | 5164.1  | 4937.9 | 4341.2 | 3759.1 | 3401.5 | 3235.3 | 3204.3 | 3226.2 | 3251.8 | 3259.1 | 3261.0 |
| 12.5° | 5193.4  | 4890.5 | 4072.9 | 3430.6 | 3160.6 | 3109.4 | 3162.4 | 3237.2 | 3286.4 | 3310.2 | 3308.4 |
| 15°   | 5259.0  | 4854.0 | 3815.7 | 3173.3 | 3027.3 | 3054.7 | 3153.2 | 3259.1 | 3330.2 | 3363.1 | 3364.9 |
| 17.5° | 5330.2  | 4801.1 | 3551.0 | 2976.2 | 2928.8 | 2998.2 | 3120.5 | 3244.5 | 3332.1 | 3368.6 | 3375.9 |
| 20°   | 5423.3  | 4735.3 | 3273.7 | 2828.4 | 2835.8 | 2914.2 | 3029.2 | 3153.2 | 3249.9 | 3280.9 | 3295.6 |
| 22.5° | 5545.6  | 4664.2 | 3031.0 | 2708.0 | 2729.9 | 2790.2 | 2879.5 | 2987.1 | 3071.2 | 3085.7 | 3098.5 |
| 25°   | 5709.8  | 4587.6 | 2837.6 | 2598.5 | 2607.6 | 2642.3 | 2702.5 | 2766.5 | 2824.8 | 2808.4 | 2821.2 |
| 27.5° | 5930.6  | 4521.8 | 2693.3 | 2498.1 | 2481.8 | 2489.0 | 2520.1 | 2540.2 | 2571.1 | 2525.5 | 2531.0 |
| 30°   | 6189.7  | 4450.6 | 2582.2 | 2410.6 | 2364.9 | 2352.2 | 2359.5 | 2370.4 | 2394.1 | 2332.1 | 2323.0 |
| 32.5° | 6490.8  | 4364.9 | 2478.1 | 2333.9 | 2270.1 | 2244.5 | 2248.1 | 2277.3 | 2368.6 | 2330.3 | 2310.2 |
| 35°   | 6841.2  | 4268.2 | 2368.6 | 2249.9 | 2206.2 | 2169.7 | 2166.1 | 2257.3 | 2529.2 | 2505.5 | 2487.2 |
| 37.5° | 7251.7  | 4171.5 | 2259.1 | 2155.0 | 2158.8 | 2118.5 | 2105.9 | 2209.9 | 2560.2 | 2467.1 | 2454.4 |
| 40°   | 7773.6  | 4120.3 | 2166.1 | 2054.7 | 2100.3 | 2094.8 | 2069.4 | 2122.3 | 2355.8 | 2186.1 | 2164.2 |
| 42.5° | 8419.6  | 4127.7 | 2096.6 | 1947.1 | 2031.0 | 2089.4 | 2049.2 | 2051.2 | 2135.0 | 2007.3 | 1987.2 |
| 45°   | 9217.0  | 4213.5 | 2047.4 | 1861.3 | 1952.6 | 2083.9 | 2041.9 | 2012.8 | 2020.1 | 1952.6 | 1941.5 |
| 47.5° | 10147.7 | 4390.5 | 2012.8 | 1790.1 | 1877.7 | 2063.8 | 2040.1 | 2001.8 | 1985.4 | 1948.8 | 1939.8 |
| 50°   | 11182.3 | 4647.8 | 1987.2 | 1722.6 | 1810.2 | 2031.0 | 2041.9 | 1990.8 | 1972.5 | 1958.0 | 1952.6 |
| 52.5° | 12198.8 | 4941.6 | 1948.8 | 1664.2 | 1757.3 | 1990.8 | 2047.4 | 1979.9 | 1959.8 | 1948.8 | 1943.4 |
| 55°   | 13332.0 | 5308.4 | 1890.5 | 1615.0 | 1713.5 | 1939.8 | 2047.4 | 1963.5 | 1941.5 | 1943.4 | 1941.5 |
| 57.5° | 14863.0 | 5901.4 | 1821.2 | 1573.0 | 1660.5 | 1877.7 | 2012.8 | 1945.3 | 1917.8 | 1919.6 | 1921.6 |
| 60°   | 17255.4 | 6947.0 | 1737.2 | 1531.0 | 1594.8 | 1804.8 | 1965.3 | 1905.1 | 1877.7 | 1885.0 | 1886.8 |
| 62.5° | 20773.5 | 8481.7 | 1627.8 | 1469.0 | 1525.5 | 1726.3 | 1899.6 | 1854.0 | 1826.6 | 1844.9 | 1844.9 |
| 65°   | 24430.4 | 9835.6 | 1492.7 | 1390.6 | 1452.5 | 1640.5 | 1817.5 | 1790.1 | 1762.8 | 1804.8 | 1802.9 |
| 67.5° | 25413.9 | 9532.8 | 1357.6 | 1304.8 | 1379.5 | 1545.6 | 1718.9 | 1704.3 | 1689.8 | 1762.8 | 1759.1 |
| 70°   | 22576.4 | 7653.2 | 1233.5 | 1217.1 | 1299.2 | 1443.5 | 1613.1 | 1613.1 | 1604.0 | 1658.8 | 1646.0 |
| 72.5° | 17200.5 | 5426.9 | 1115.0 | 1124.1 | 1208.0 | 1332.1 | 1498.2 | 1510.9 | 1496.3 | 1523.7 | 1512.8 |
| 75°   | 9208.0  | 3105.8 | 996.3  | 1021.9 | 1094.9 | 1219.0 | 1370.4 | 1383.2 | 1374.1 | 1372.3 | 1377.8 |
| 77.5° | 3060.2  | 1518.2 | 872.2  | 912.5  | 976.2  | 1102.2 | 1237.3 | 1257.2 | 1235.4 | 1231.8 | 1229.9 |
| 80°   | 1363.1  | 954.4  | 735.5  | 788.3  | 844.9  | 969.0  | 1096.8 | 1113.2 | 1089.5 | 1122.2 | 1080.2 |
| 82.5° | 875.9   | 627.7  | 589.5  | 647.8  | 702.5  | 835.8  | 956.2  | 959.9  | 938.0  | 1089.5 | 928.8  |
| 85°   | 425.1   | 388.6  | 443.4  | 496.4  | 543.8  | 656.9  | 791.9  | 793.8  | 739.0  | 673.4  | 649.6  |
| 87.5° | 211.6   | 226.2  | 295.6  | 343.1  | 366.8  | 450.7  | 576.7  | 565.6  | 541.9  | 492.6  | 454.4  |
| 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)