

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: P453717

Luminaire Tested: **GLAN-SA4D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 28029 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 245  
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: 24 FT

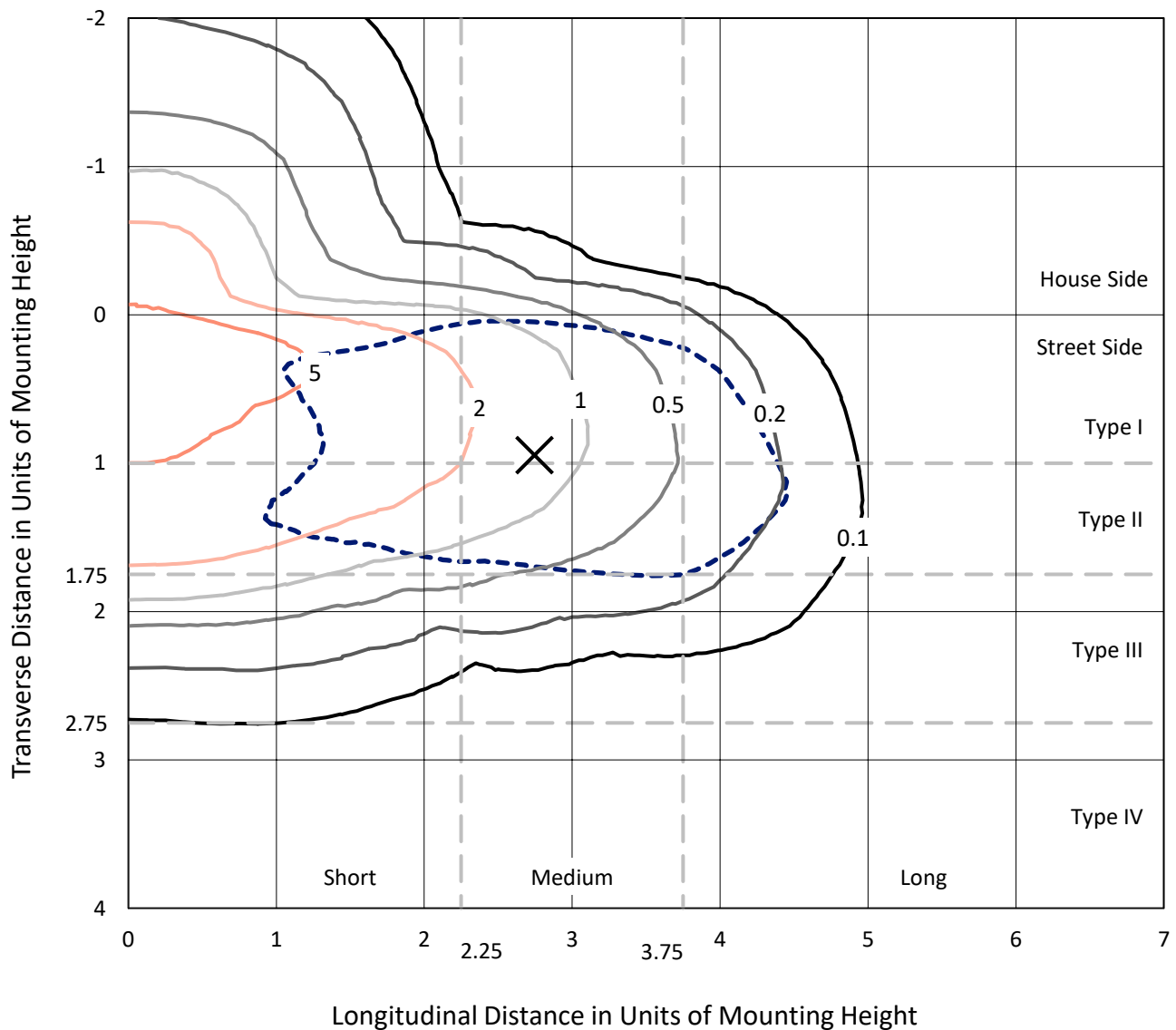


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

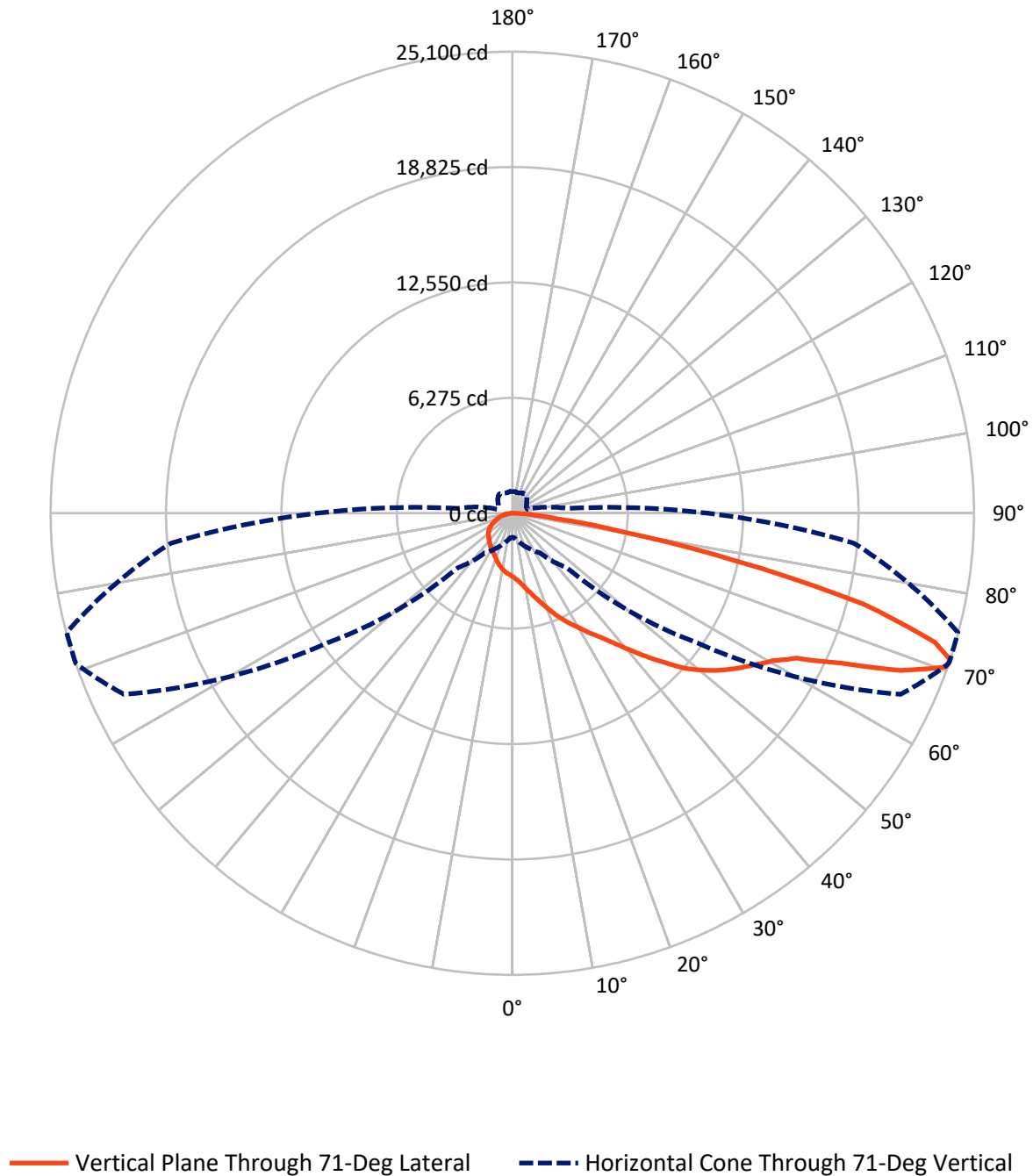


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5040.9   | 0.0    | 5040.9  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 22988.1  | 0.0    | 22988.1 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 28029.0  | 0.0    | 28029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 345.4   | 1.2       |
| 10°-20°   | 1122.2  | 4.0       |
| 20°-30°   | 1961.1  | 7.0       |
| 30°-40°   | 2916.9  | 10.4      |
| 40°-50°   | 4297.6  | 15.3      |
| 50°-60°   | 6016.8  | 21.5      |
| 60°-70°   | 6729.6  | 24.0      |
| 70°-80°   | 4110.7  | 14.7      |
| 80°-90°   | 528.8   | 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°    | 28029.0 | 100.0     |
| 0°-180°   | 28029.0 | 100.0     |

**Coefficient of Utilization**



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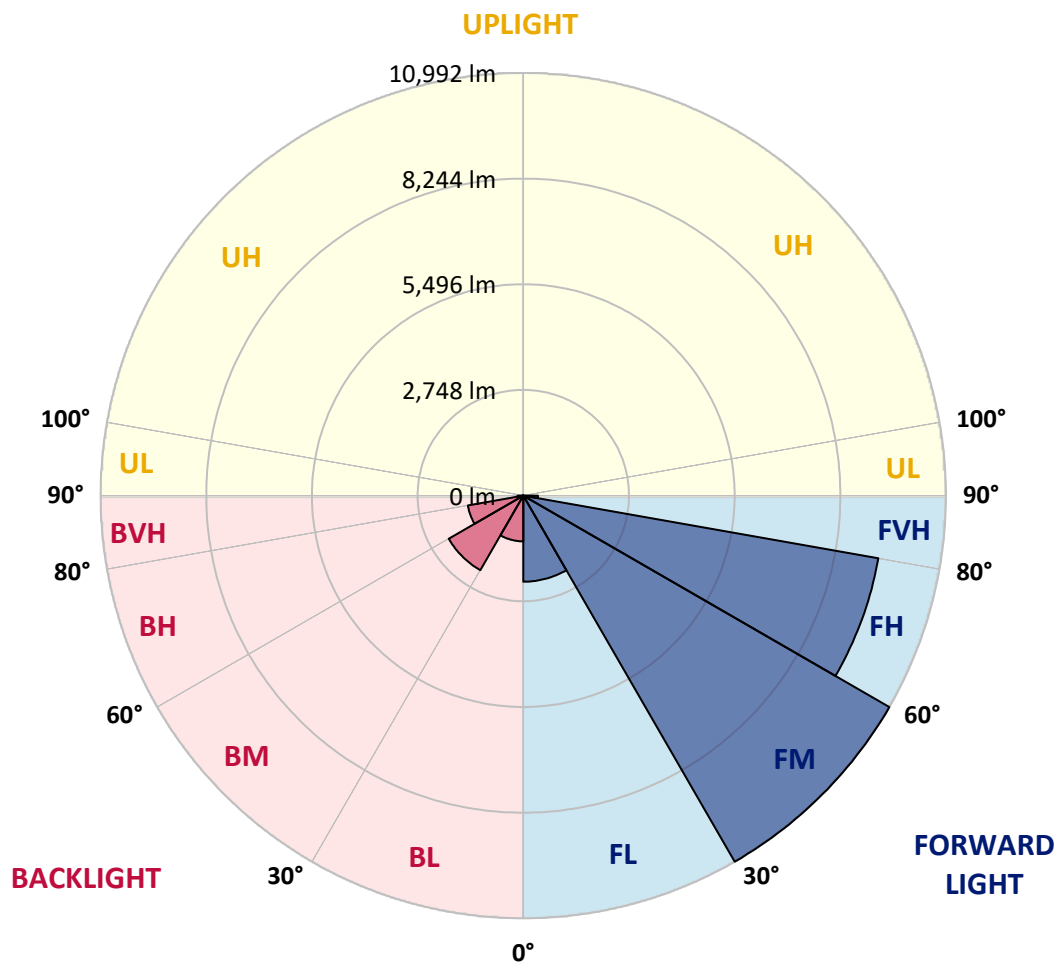
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2239.5  | 8.0       |                         |      |          |
| FM   | (30°-60°)   | 10992.4 | 39.2      |                         |      |          |
| FH   | (60°-80°)   | 9375.6  | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 380.5   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1189.1  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2238.9  | 8.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1464.6  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 148.3   | 0.5       |                         |      | G2/225   |
| 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°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  | 3440.0  |
| 2.5°  | 3819.0  | 3800.5  | 3802.0  | 3775.8  | 3742.0  | 3705.0  | 3652.6  | 3606.4  | 3569.4  | 3547.8  | 3484.7  |
| 5°    | 4231.8  | 4213.4  | 4190.2  | 4133.2  | 4108.6  | 4017.7  | 3902.2  | 3797.4  | 3717.3  | 3672.6  | 3546.3  |
| 7.5°  | 4566.1  | 4561.5  | 4555.4  | 4523.0  | 4459.8  | 4333.5  | 4234.9  | 4053.1  | 3934.5  | 3849.8  | 3634.1  |
| 10°   | 4772.6  | 4780.3  | 4784.9  | 4791.1  | 4764.9  | 4698.6  | 4563.1  | 4333.5  | 4182.5  | 4074.7  | 3748.1  |
| 12.5° | 4877.3  | 4885.0  | 4911.2  | 4968.2  | 5003.6  | 4995.9  | 4885.0  | 4660.1  | 4452.1  | 4310.4  | 3869.8  |
| 15°   | 4942.0  | 4954.3  | 5000.6  | 5076.1  | 5194.7  | 5270.2  | 5216.2  | 5008.3  | 4780.3  | 4612.4  | 4014.6  |
| 17.5° | 5012.9  | 5026.8  | 5077.6  | 5185.4  | 5341.0  | 5504.3  | 5562.9  | 5384.2  | 5136.1  | 4935.9  | 4176.4  |
| 20°   | 5052.9  | 5071.4  | 5143.8  | 5285.6  | 5467.3  | 5704.6  | 5898.7  | 5804.7  | 5533.6  | 5311.8  | 4362.8  |
| 22.5° | 5117.6  | 5133.1  | 5194.7  | 5345.6  | 5562.9  | 5860.2  | 6234.5  | 6214.5  | 5975.7  | 5689.2  | 4567.7  |
| 25°   | 5293.3  | 5317.9  | 5348.7  | 5439.6  | 5649.1  | 6018.9  | 6513.4  | 6652.0  | 6404.0  | 6083.6  | 4755.6  |
| 27.5° | 5624.5  | 5644.5  | 5643.0  | 5655.3  | 5773.9  | 6156.0  | 6755.2  | 7084.9  | 6829.2  | 6482.6  | 4937.4  |
| 30°   | 6001.9  | 6009.6  | 6015.8  | 5988.0  | 6014.2  | 6296.2  | 6977.1  | 7513.2  | 7257.4  | 6892.3  | 5096.1  |
| 32.5° | 6461.0  | 6476.4  | 6424.0  | 6353.2  | 6331.6  | 6504.1  | 7160.4  | 7941.4  | 7764.3  | 7308.3  | 5253.2  |
| 35°   | 7003.3  | 7043.3  | 6937.0  | 6812.2  | 6724.4  | 6803.0  | 7406.9  | 8379.0  | 8283.4  | 7839.8  | 5461.2  |
| 37.5° | 7622.5  | 7671.8  | 7573.3  | 7328.3  | 7203.5  | 7225.1  | 7728.8  | 8919.7  | 8939.7  | 8445.2  | 5770.8  |
| 40°   | 8129.4  | 8194.1  | 8197.2  | 7850.5  | 7661.1  | 7685.7  | 8137.1  | 9502.0  | 9731.5  | 9193.9  | 6135.9  |
| 42.5° | 8463.7  | 8526.8  | 8593.1  | 8389.7  | 8191.0  | 8331.2  | 8613.1  | 10133.6 | 10622.0 | 10102.8 | 6645.9  |
| 45°   | 8830.3  | 8887.3  | 8924.3  | 8831.9  | 8720.9  | 9084.5  | 9187.7  | 10805.3 | 11570.9 | 11118.0 | 7203.5  |
| 47.5° | 9255.5  | 9318.7  | 9354.1  | 9266.3  | 9224.7  | 9745.4  | 9807.0  | 11432.3 | 12584.6 | 12104.0 | 7819.7  |
| 50°   | 9822.4  | 9870.2  | 9851.7  | 9796.2  | 9787.0  | 10252.2 | 10401.7 | 12019.2 | 13421.1 | 13165.4 | 8459.1  |
| 52.5° | 10528.0 | 10585.0 | 10605.0 | 10526.5 | 10491.0 | 10614.3 | 10880.8 | 12553.8 | 14182.1 | 14077.4 | 9141.5  |
| 55°   | 10954.7 | 11045.6 | 11350.6 | 11473.9 | 11558.6 | 11082.6 | 11396.9 | 13143.8 | 14864.6 | 15038.7 | 9874.8  |
| 57.5° | 10407.8 | 10524.9 | 11207.4 | 11823.6 | 12620.0 | 12253.4 | 12128.6 | 13760.0 | 15547.0 | 15970.7 | 10752.9 |
| 60°   | 9073.7  | 9099.9  | 9979.6  | 11114.9 | 12717.1 | 13758.5 | 13655.3 | 14739.8 | 16286.5 | 16910.4 | 11909.8 |
| 62.5° | 6294.6  | 6350.1  | 7389.9  | 9201.6  | 11518.6 | 14300.8 | 16252.6 | 16431.3 | 17346.4 | 18316.9 | 13606.0 |
| 65°   | 3245.9  | 3173.5  | 4120.9  | 5783.2  | 8684.0  | 13012.9 | 18357.0 | 19541.6 | 19644.9 | 20516.8 | 15993.8 |
| 67.5° | 1998.1  | 2030.4  | 2474.1  | 3376.8  | 5134.6  | 9457.3  | 18136.7 | 23342.1 | 22798.3 | 23217.4 | 18210.6 |
| 70°   | 1500.5  | 1540.5  | 1845.6  | 2310.8  | 3130.4  | 5407.3  | 14585.8 | 24263.4 | 25022.9 | 24915.0 | 18885.4 |
| 71°   | 1304.8  | 1346.4  | 1663.8  | 2102.8  | 2629.7  | 4173.3  | 12288.8 | 23299.0 | 25099.9 | 25081.4 | 18631.2 |
| 72.5° | 1112.3  | 1138.5  | 1386.5  | 1780.9  | 2216.8  | 2925.5  | 9232.4  | 20895.8 | 24029.2 | 24643.9 | 17723.8 |
| 75°   | 873.5   | 893.5   | 1004.4  | 1358.7  | 1745.4  | 1796.3  | 4954.3  | 15665.7 | 19735.7 | 20906.6 | 14755.2 |
| 77.5° | 711.7   | 725.6   | 782.6   | 1009.0  | 1346.4  | 1272.5  | 2598.9  | 10196.8 | 12364.3 | 13542.8 | 8691.7  |
| 80°   | 565.4   | 580.8   | 614.7   | 684.0   | 1009.0  | 907.4   | 1240.1  | 5166.9  | 5972.6  | 5960.3  | 3469.3  |
| 82.5° | 439.1   | 443.7   | 483.7   | 502.2   | 690.2   | 643.9   | 671.7   | 2187.6  | 2423.3  | 2503.4  | 1252.5  |
| 85°   | 277.3   | 291.2   | 428.3   | 385.1   | 412.9   | 377.4   | 331.2   | 868.9   | 1070.7  | 1055.3  | 500.7   |
| 87.5° | 84.7    | 89.4    | 144.8   | 163.3   | 183.3   | 164.8   | 121.7   | 255.7   | 312.7   | 338.9   | 124.8   |
| 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°    | 3440.0  | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 | 3440.0 |
| 2.5°  | 3460.0  | 3443.1 | 3383.0 | 3333.7 | 3287.5 | 3236.7 | 3193.5 | 3181.2 | 3170.4 | 3165.8 | 3164.3 |
| 5°    | 3492.4  | 3441.5 | 3322.9 | 3225.9 | 3148.8 | 3078.0 | 3033.3 | 3013.3 | 2993.3 | 2993.3 | 2999.4 |
| 7.5°  | 3538.6  | 3446.2 | 3262.8 | 3118.0 | 3021.0 | 2954.7 | 2922.4 | 2919.3 | 2923.9 | 2928.6 | 2930.1 |
| 10°   | 3589.4  | 3443.1 | 3175.0 | 2994.8 | 2908.5 | 2877.7 | 2879.3 | 2905.4 | 2930.1 | 2948.6 | 2951.7 |
| 12.5° | 3638.7  | 3424.6 | 3071.8 | 2879.3 | 2823.8 | 2830.0 | 2873.1 | 2931.6 | 2979.4 | 3005.6 | 3007.1 |
| 15°   | 3694.2  | 3395.3 | 2947.0 | 2769.9 | 2751.4 | 2799.1 | 2879.3 | 2968.6 | 3041.0 | 3084.1 | 3088.8 |
| 17.5° | 3740.4  | 3346.0 | 2816.1 | 2663.6 | 2686.7 | 2774.5 | 2885.4 | 3001.0 | 3088.8 | 3142.7 | 3151.9 |
| 20°   | 3792.8  | 3282.9 | 2680.5 | 2561.9 | 2628.1 | 2746.8 | 2873.1 | 2997.9 | 3088.8 | 3141.1 | 3153.5 |
| 22.5° | 3834.4  | 3193.5 | 2551.1 | 2478.7 | 2575.8 | 2712.9 | 2831.5 | 2931.6 | 3005.6 | 3033.3 | 3051.8 |
| 25°   | 3851.3  | 3081.1 | 2429.4 | 2410.9 | 2534.2 | 2657.4 | 2737.5 | 2794.5 | 2817.6 | 2814.6 | 2822.3 |
| 27.5° | 3842.1  | 2951.7 | 2324.7 | 2357.0 | 2481.8 | 2571.1 | 2611.2 | 2606.6 | 2565.0 | 2526.5 | 2545.0 |
| 30°   | 3803.6  | 2797.6 | 2236.9 | 2301.6 | 2414.0 | 2463.3 | 2457.1 | 2397.1 | 2318.5 | 2246.1 | 2250.7 |
| 32.5° | 3734.2  | 2631.2 | 2155.2 | 2238.4 | 2318.5 | 2340.1 | 2298.5 | 2219.9 | 2107.4 | 2013.5 | 1999.6 |
| 35°   | 3675.7  | 2472.6 | 2082.8 | 2166.0 | 2223.0 | 2212.2 | 2172.1 | 2070.5 | 1968.8 | 1885.6 | 1871.7 |
| 37.5° | 3666.5  | 2337.0 | 2013.5 | 2084.3 | 2116.7 | 2101.3 | 2052.0 | 1965.7 | 1928.7 | 1865.6 | 1857.9 |
| 40°   | 3715.8  | 2241.5 | 1942.6 | 1998.1 | 2013.5 | 2001.2 | 1947.2 | 1897.9 | 1931.8 | 1916.4 | 1916.4 |
| 42.5° | 3849.8  | 2190.6 | 1879.4 | 1911.8 | 1924.1 | 1933.4 | 1894.9 | 1853.3 | 1894.9 | 1824.0 | 1800.9 |
| 45°   | 4062.4  | 2192.2 | 1822.4 | 1827.1 | 1864.0 | 1896.4 | 1870.2 | 1808.6 | 1787.0 | 1645.3 | 1617.6 |
| 47.5° | 4375.1  | 2244.6 | 1776.2 | 1747.0 | 1813.2 | 1867.1 | 1830.2 | 1740.8 | 1645.3 | 1551.3 | 1534.4 |
| 50°   | 4740.2  | 2338.5 | 1734.6 | 1663.8 | 1745.4 | 1830.2 | 1802.4 | 1697.7 | 1599.1 | 1542.1 | 1531.3 |
| 52.5° | 5145.4  | 2457.1 | 1683.8 | 1571.3 | 1662.2 | 1813.2 | 1808.6 | 1691.5 | 1555.9 | 1517.4 | 1508.2 |
| 55°   | 5646.0  | 2574.2 | 1620.6 | 1463.5 | 1588.3 | 1799.3 | 1791.6 | 1640.7 | 1546.7 | 1519.0 | 1515.9 |
| 57.5° | 6228.4  | 2743.7 | 1529.7 | 1354.1 | 1503.6 | 1742.3 | 1725.4 | 1609.9 | 1515.9 | 1495.9 | 1494.3 |
| 60°   | 7166.6  | 3007.1 | 1400.3 | 1254.0 | 1417.3 | 1642.2 | 1663.8 | 1557.5 | 1466.6 | 1462.0 | 1460.4 |
| 62.5° | 8400.5  | 3376.8 | 1266.3 | 1150.8 | 1317.2 | 1512.8 | 1574.4 | 1486.6 | 1414.2 | 1437.3 | 1440.4 |
| 65°   | 10104.3 | 3688.0 | 1127.7 | 1063.0 | 1206.2 | 1388.0 | 1489.7 | 1420.4 | 1355.7 | 1400.3 | 1400.3 |
| 67.5° | 11215.1 | 3694.2 | 1001.3 | 972.1  | 1093.8 | 1283.3 | 1400.3 | 1341.8 | 1280.2 | 1355.7 | 1358.7 |
| 70°   | 10984.0 | 3236.7 | 896.6  | 876.6  | 984.4  | 1170.8 | 1301.7 | 1255.5 | 1184.7 | 1252.5 | 1227.8 |
| 71°   | 10611.2 | 2982.5 | 855.0  | 839.6  | 941.3  | 1116.9 | 1255.5 | 1217.0 | 1146.2 | 1190.8 | 1177.0 |
| 72.5° | 10016.5 | 2589.6 | 787.2  | 790.3  | 876.6  | 1049.1 | 1190.8 | 1150.8 | 1079.9 | 1104.6 | 1099.9 |
| 75°   | 8466.8  | 2261.5 | 673.2  | 687.1  | 753.3  | 933.6  | 1061.4 | 1030.6 | 958.2  | 958.2  | 953.6  |
| 77.5° | 5293.3  | 1580.6 | 559.2  | 566.9  | 639.3  | 799.5  | 912.0  | 885.8  | 816.5  | 793.4  | 787.2  |
| 80°   | 1975.0  | 816.5  | 437.5  | 446.8  | 491.4  | 630.1  | 754.9  | 730.2  | 659.3  | 633.2  | 608.5  |
| 82.5° | 747.2   | 409.8  | 322.0  | 314.3  | 362.0  | 480.6  | 591.6  | 562.3  | 506.8  | 443.7  | 425.2  |
| 85°   | 281.9   | 203.4  | 197.2  | 191.0  | 212.6  | 285.0  | 366.6  | 360.5  | 301.9  | 257.3  | 252.6  |
| 87.5° | 73.9    | 66.2   | 77.0   | 57.0   | 60.1   | 53.9   | 55.5   | 23.1   | 10.8   | 4.6    | 3.1    |
| 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)