

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: P650539

Luminaire Tested: **GLAN-SA7B-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31626.1 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

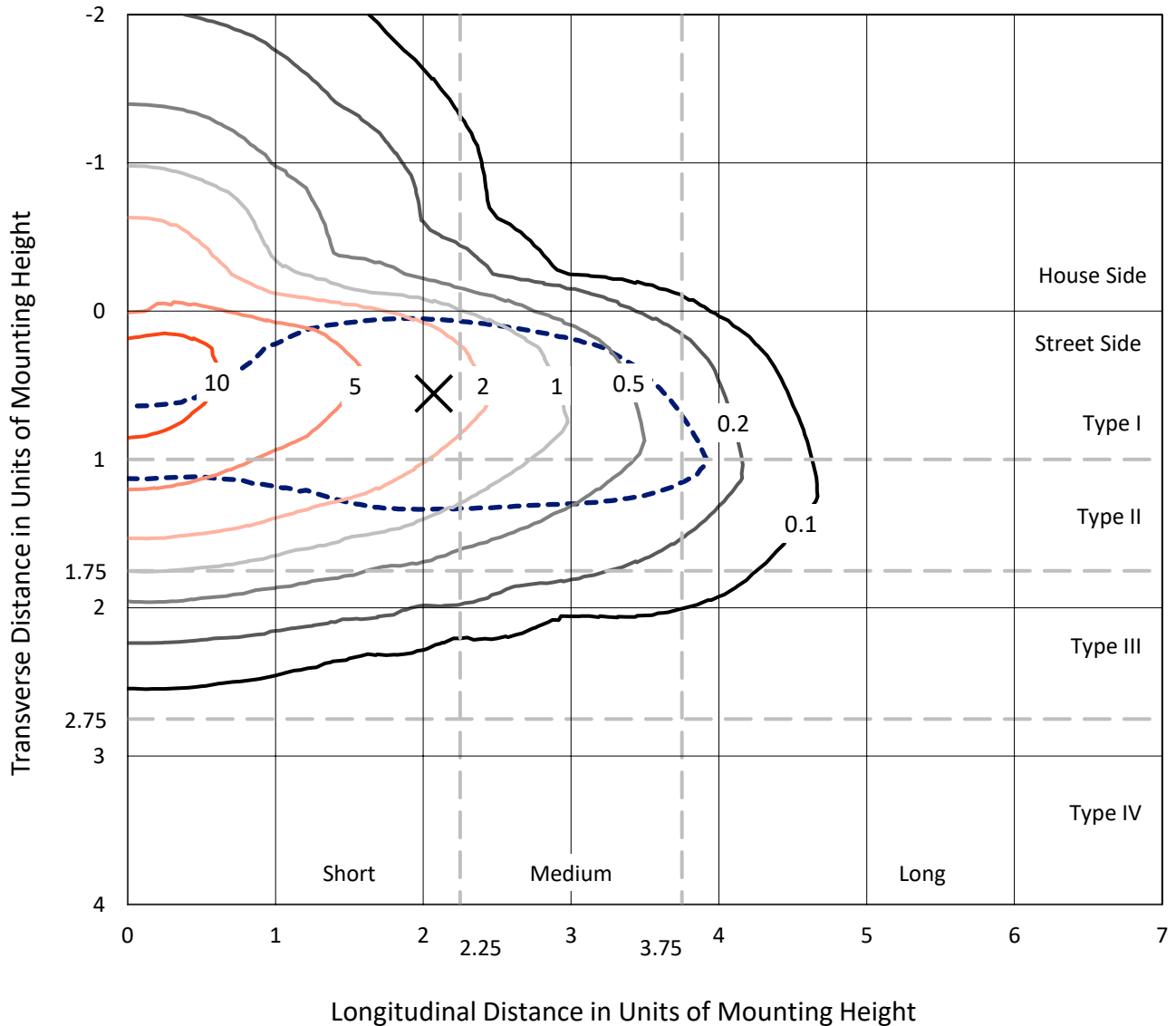
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

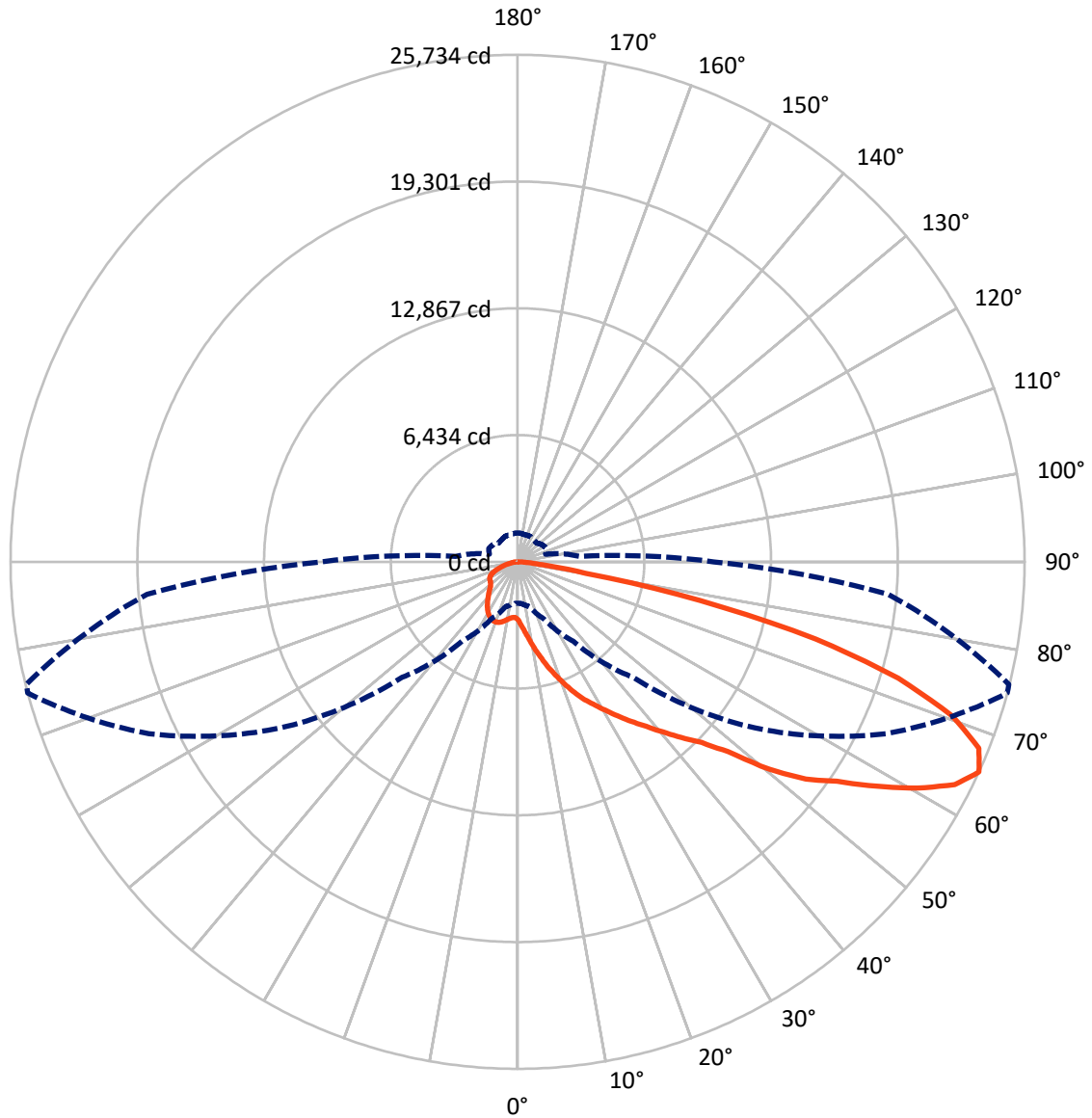
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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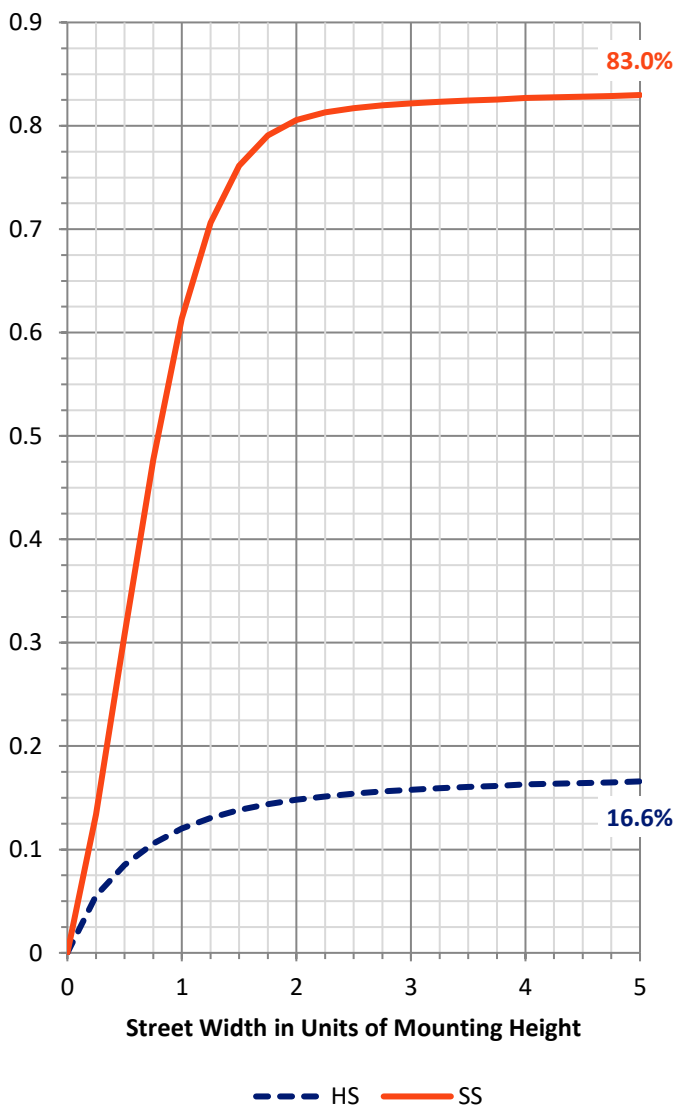
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5316.8   | 0.0    | 5316.8  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 26309.4  | 0.0    | 26309.4 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 31626.1  | 0.0    | 31626.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 357.0   | 1.1       |
| 10°-20°   | 1398.4  | 4.4       |
| 20°-30°   | 2701.2  | 8.5       |
| 30°-40°   | 4387.6  | 13.9      |
| 40°-50°   | 6035.5  | 19.1      |
| 50°-60°   | 7125.8  | 22.5      |
| 60°-70°   | 6243.4  | 19.7      |
| 70°-80°   | 2980.6  | 9.4       |
| 80°-90°   | 396.6   | 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°    | 31626.1 | 100.0     |
| 0°-180°   | 31626.1 | 100.0     |

**Coefficient of Utilization**

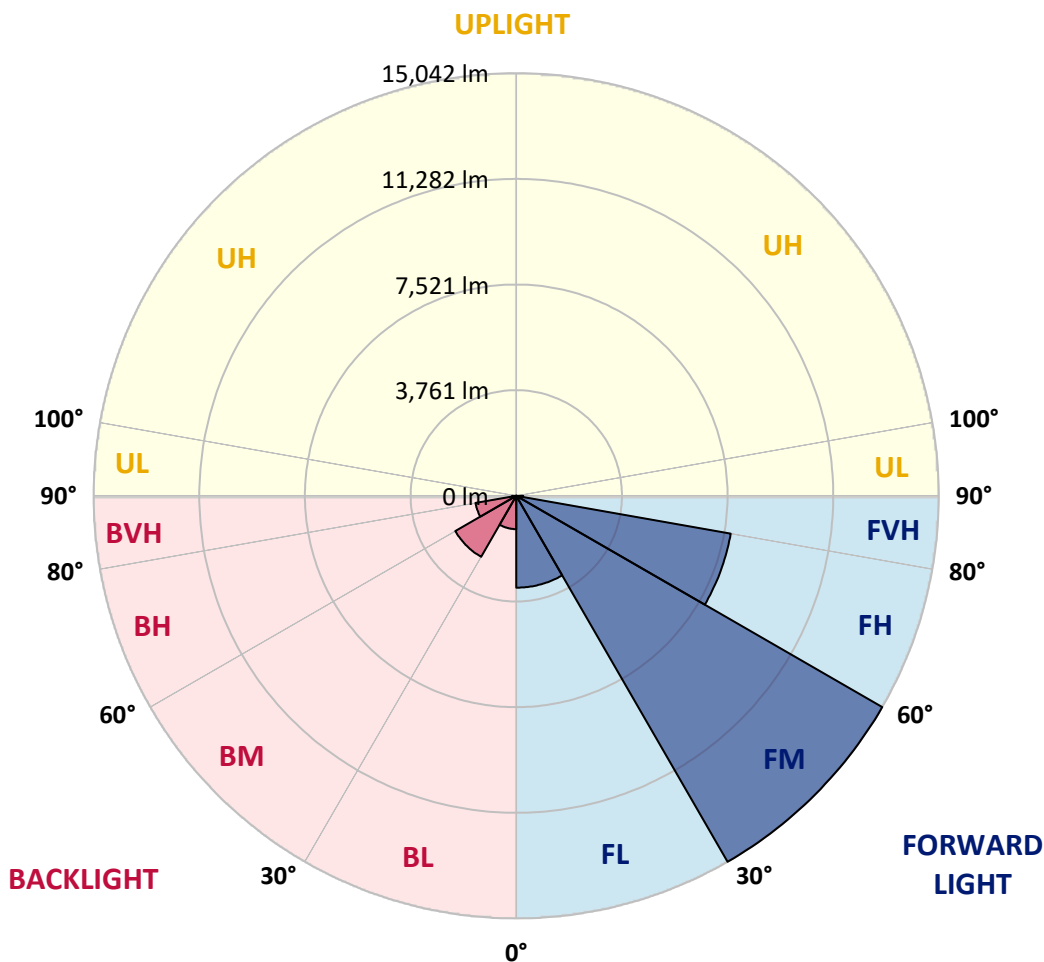


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3269.6  | 10.3      |                         |      |          |
| FM (30°-60°)   | 15042.1 | 47.6      |                         |      |          |
| FH (60°-80°)   | 7749.8  | 24.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 247.9   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 1187.0  | 3.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2506.8  | 7.9       | B3/5000                 |      |          |
| BH (60°-80°)   | 1474.2  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 148.8   | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  | 2938.4  |
| 2.5°  | 3904.3  | 3878.5  | 3851.0  | 3775.5  | 3695.0  | 3604.1  | 3473.7  | 3348.4  | 3182.0  | 3176.9  | 3053.4  |
| 5°    | 4986.6  | 4969.5  | 4847.7  | 4777.4  | 4590.4  | 4341.7  | 4130.6  | 3803.0  | 3499.4  | 3463.4  | 3223.2  |
| 7.5°  | 5981.6  | 5914.7  | 5868.4  | 5741.4  | 5556.2  | 5237.1  | 4828.8  | 4386.3  | 3878.5  | 3830.4  | 3432.5  |
| 10°   | 6731.2  | 6724.3  | 6700.4  | 6590.5  | 6451.6  | 6134.3  | 5681.4  | 5046.7  | 4358.8  | 4264.5  | 3686.4  |
| 12.5° | 7292.2  | 7297.2  | 7293.9  | 7292.2  | 7192.6  | 6923.4  | 6432.7  | 5763.7  | 4844.3  | 4777.4  | 3979.7  |
| 15°   | 7661.0  | 7712.4  | 7733.0  | 7818.7  | 7827.3  | 7647.2  | 7225.2  | 6456.8  | 5391.5  | 5292.0  | 4295.4  |
| 17.5° | 7904.5  | 7930.3  | 8026.3  | 8172.2  | 8290.5  | 8257.9  | 7882.2  | 7098.3  | 5950.7  | 5784.3  | 4623.0  |
| 20°   | 8137.8  | 8182.4  | 8256.2  | 8455.1  | 8664.4  | 8760.5  | 8496.3  | 7755.3  | 6504.8  | 6398.4  | 4985.0  |
| 22.5° | 8623.3  | 8686.8  | 8712.5  | 8813.7  | 8992.1  | 9161.9  | 9041.8  | 8384.8  | 7112.0  | 6967.9  | 5369.2  |
| 25°   | 9444.9  | 9511.9  | 9439.8  | 9415.8  | 9474.1  | 9558.2  | 9532.5  | 8978.3  | 7685.0  | 7479.1  | 5732.8  |
| 27.5° | 10515.4 | 10523.9 | 10383.3 | 10249.5 | 10105.4 | 10062.5 | 9983.6  | 9505.0  | 8182.4  | 8010.9  | 6098.2  |
| 30°   | 11664.7 | 11623.5 | 11390.2 | 11148.4 | 10904.8 | 10664.6 | 10438.2 | 10012.8 | 8736.5  | 8539.2  | 6456.8  |
| 32.5° | 12731.7 | 12709.3 | 12450.3 | 12074.6 | 11662.9 | 11436.5 | 10978.5 | 10525.6 | 9330.0  | 9139.6  | 6825.6  |
| 35°   | 13531.0 | 13563.6 | 13278.9 | 12868.9 | 12419.5 | 12218.7 | 11640.6 | 11064.3 | 9944.1  | 9736.6  | 7226.9  |
| 37.5° | 14098.9 | 14081.6 | 13829.5 | 13474.4 | 13079.9 | 12904.9 | 12414.3 | 11652.7 | 10604.6 | 10405.6 | 7666.1  |
| 40°   | 14301.3 | 14290.9 | 14103.9 | 13844.9 | 13594.5 | 13532.7 | 13223.9 | 12287.4 | 11361.0 | 11127.8 | 8194.4  |
| 42.5° | 14172.6 | 14194.9 | 14071.4 | 14001.1 | 13954.7 | 13999.3 | 14028.5 | 13119.3 | 12186.1 | 11971.8 | 8767.4  |
| 45°   | 13778.1 | 13766.0 | 13748.9 | 13863.8 | 14124.5 | 14417.8 | 14824.5 | 13905.0 | 13083.3 | 12911.7 | 9535.8  |
| 47.5° | 13073.0 | 13158.8 | 13201.7 | 13519.0 | 14088.5 | 14783.3 | 15740.4 | 14958.2 | 14385.3 | 14236.0 | 10707.5 |
| 50°   | 12086.7 | 12155.3 | 12409.1 | 12973.5 | 13822.6 | 14920.5 | 16635.9 | 16680.5 | 16557.0 | 16277.4 | 11980.3 |
| 52.5° | 10546.2 | 10652.6 | 11175.8 | 12210.2 | 13277.2 | 14863.8 | 17177.9 | 18157.5 | 18320.4 | 18111.1 | 13234.3 |
| 55°   | 8822.3  | 8971.5  | 9523.9  | 10880.7 | 12525.8 | 14555.1 | 17551.9 | 19013.4 | 19663.6 | 19469.7 | 14441.9 |
| 57.5° | 7134.3  | 7292.2  | 7859.9  | 9173.9  | 11215.2 | 13872.4 | 17797.2 | 19967.2 | 21492.2 | 21240.0 | 15944.6 |
| 60°   | 5346.9  | 5511.5  | 5998.7  | 7352.2  | 9348.9  | 12537.8 | 17630.8 | 20794.0 | 23319.1 | 23211.0 | 17449.0 |
| 62.5° | 3449.7  | 3631.5  | 4055.2  | 5175.3  | 7185.7  | 10714.3 | 16740.5 | 21250.3 | 24900.7 | 24770.3 | 18546.8 |
| 65°   | 2101.3  | 2121.9  | 2355.3  | 3213.0  | 4918.0  | 8295.7  | 14704.3 | 20644.7 | 25734.3 | 25694.8 | 18881.3 |
| 67.5° | 1358.6  | 1391.2  | 1497.6  | 1924.7  | 2948.8  | 5762.0  | 11757.3 | 18646.4 | 25247.1 | 25233.4 | 18190.0 |
| 70°   | 1147.6  | 1157.9  | 1205.9  | 1298.5  | 1713.7  | 3494.3  | 8256.2  | 15460.8 | 23396.3 | 23396.3 | 16527.8 |
| 72.5° | 1025.8  | 1039.5  | 1056.7  | 1085.9  | 1223.0  | 1979.6  | 4926.6  | 12035.2 | 20200.5 | 20334.3 | 14067.9 |
| 75°   | 931.5   | 928.0   | 938.3   | 943.4   | 1043.0  | 1293.4  | 2547.3  | 8901.1  | 15627.3 | 15359.6 | 10187.7 |
| 77.5° | 797.6   | 802.8   | 797.6   | 820.0   | 921.2   | 984.6   | 1293.4  | 5973.0  | 9470.7  | 9124.1  | 5113.6  |
| 80°   | 655.3   | 663.8   | 672.4   | 686.1   | 787.4   | 747.9   | 777.0   | 2722.3  | 3502.8  | 3429.1  | 1579.9  |
| 82.5° | 492.4   | 504.3   | 518.0   | 550.6   | 619.3   | 494.0   | 490.6   | 1163.1  | 1264.2  | 1157.9  | 581.5   |
| 85°   | 199.0   | 235.0   | 355.1   | 387.7   | 389.4   | 271.0   | 301.9   | 485.5   | 516.3   | 504.3   | 228.2   |
| 87.5° | 46.4    | 54.9    | 114.9   | 173.3   | 159.5   | 101.2   | 111.5   | 157.9   | 180.1   | 166.4   | 77.2    |
| 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°    | 2938.4  | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 | 2938.4 |
| 2.5°  | 2996.8  | 2936.7 | 2833.8 | 2754.9 | 2698.3 | 2648.6 | 2617.7 | 2598.9 | 2592.0 | 2590.2 | 2592.0 |
| 5°    | 3098.0  | 2991.6 | 2828.7 | 2725.8 | 2669.2 | 2636.6 | 2617.7 | 2616.0 | 2617.7 | 2619.4 | 2614.3 |
| 7.5°  | 3236.9  | 3084.3 | 2871.6 | 2775.5 | 2732.6 | 2708.6 | 2700.0 | 2696.6 | 2698.3 | 2696.6 | 2696.6 |
| 10°   | 3422.2  | 3213.0 | 2955.6 | 2856.1 | 2820.1 | 2792.6 | 2778.9 | 2770.3 | 2763.5 | 2756.6 | 2753.2 |
| 12.5° | 3626.3  | 3355.3 | 3046.6 | 2950.5 | 2899.0 | 2856.1 | 2825.2 | 2803.0 | 2787.5 | 2772.1 | 2768.6 |
| 15°   | 3854.5  | 3506.3 | 3147.7 | 3013.9 | 2940.2 | 2876.7 | 2823.6 | 2787.5 | 2760.1 | 2737.8 | 2736.0 |
| 17.5° | 4072.4  | 3648.6 | 3216.3 | 3043.1 | 2935.1 | 2845.8 | 2775.5 | 2725.8 | 2691.5 | 2662.3 | 2658.8 |
| 20°   | 4305.6  | 3784.2 | 3247.3 | 3024.3 | 2883.6 | 2775.5 | 2682.9 | 2622.8 | 2583.4 | 2550.8 | 2545.6 |
| 22.5° | 4540.6  | 3899.1 | 3243.8 | 2964.2 | 2794.4 | 2667.4 | 2569.6 | 2506.2 | 2459.9 | 2427.3 | 2415.2 |
| 25°   | 4765.3  | 3991.7 | 3200.9 | 2868.1 | 2670.9 | 2538.8 | 2439.3 | 2380.9 | 2339.8 | 2300.4 | 2300.4 |
| 27.5° | 4967.7  | 4046.6 | 3120.3 | 2751.5 | 2544.0 | 2405.0 | 2326.1 | 2272.9 | 2235.2 | 2209.4 | 2194.0 |
| 30°   | 5166.8  | 4072.4 | 3010.5 | 2603.9 | 2410.2 | 2291.8 | 2228.3 | 2197.4 | 2163.1 | 2134.0 | 2130.5 |
| 32.5° | 5345.1  | 4067.2 | 2873.3 | 2459.9 | 2283.1 | 2199.1 | 2173.4 | 2149.4 | 2113.4 | 2072.2 | 2061.9 |
| 35°   | 5518.4  | 4032.9 | 2710.4 | 2302.0 | 2176.8 | 2144.2 | 2151.1 | 2116.8 | 2051.6 | 2000.2 | 1991.6 |
| 37.5° | 5707.1  | 3971.1 | 2531.9 | 2173.4 | 2087.6 | 2118.5 | 2135.6 | 2060.2 | 1953.8 | 1873.2 | 1854.4 |
| 40°   | 5925.0  | 3900.8 | 2346.7 | 2044.7 | 2017.3 | 2094.5 | 2094.5 | 1955.5 | 1809.7 | 1760.0 | 1746.2 |
| 42.5° | 6180.5  | 3842.5 | 2192.2 | 1936.7 | 1959.0 | 2036.2 | 2027.6 | 1816.6 | 1756.6 | 1730.8 | 1724.0 |
| 45°   | 6585.4  | 3821.9 | 2032.7 | 1842.3 | 1910.9 | 1967.5 | 1897.2 | 1768.6 | 1734.3 | 1713.7 | 1706.8 |
| 47.5° | 7225.2  | 3845.9 | 1892.0 | 1772.0 | 1856.0 | 1898.9 | 1751.4 | 1736.0 | 1712.0 | 1682.8 | 1679.4 |
| 50°   | 7818.7  | 3823.6 | 1792.6 | 1732.5 | 1808.0 | 1816.6 | 1691.4 | 1696.5 | 1682.8 | 1650.2 | 1643.4 |
| 52.5° | 8304.2  | 3753.3 | 1729.1 | 1712.0 | 1766.8 | 1672.5 | 1634.7 | 1653.6 | 1648.5 | 1607.3 | 1600.5 |
| 55°   | 8837.7  | 3710.4 | 1698.2 | 1712.0 | 1739.4 | 1547.3 | 1581.6 | 1609.1 | 1602.2 | 1573.0 | 1571.3 |
| 57.5° | 9484.4  | 3718.9 | 1675.9 | 1717.1 | 1712.0 | 1483.8 | 1528.4 | 1561.0 | 1559.3 | 1550.7 | 1550.7 |
| 60°   | 10146.6 | 3722.4 | 1641.6 | 1715.4 | 1679.4 | 1434.1 | 1473.5 | 1519.8 | 1523.2 | 1528.4 | 1528.4 |
| 62.5° | 10366.1 | 3573.1 | 1574.8 | 1684.5 | 1607.3 | 1386.1 | 1422.1 | 1485.5 | 1482.1 | 1495.8 | 1497.6 |
| 65°   | 9956.2  | 3159.7 | 1475.3 | 1614.2 | 1514.7 | 1351.7 | 1382.6 | 1441.0 | 1422.1 | 1458.1 | 1464.9 |
| 67.5° | 9062.4  | 2614.3 | 1320.8 | 1487.2 | 1411.7 | 1315.7 | 1356.9 | 1379.2 | 1344.9 | 1415.2 | 1416.9 |
| 70°   | 7832.5  | 2041.3 | 1125.3 | 1307.1 | 1295.2 | 1277.9 | 1336.3 | 1302.0 | 1254.0 | 1339.7 | 1322.6 |
| 72.5° | 6549.4  | 1559.3 | 898.9  | 1068.7 | 1139.0 | 1221.3 | 1300.2 | 1202.5 | 1135.6 | 1161.3 | 1130.4 |
| 75°   | 4919.7  | 1152.7 | 722.2  | 837.1  | 948.6  | 1140.8 | 1267.7 | 1082.4 | 979.5  | 955.5  | 948.6  |
| 77.5° | 2507.9  | 753.1  | 540.3  | 626.1  | 711.9  | 1031.0 | 1223.0 | 941.7  | 811.3  | 773.6  | 756.5  |
| 80°   | 895.4   | 468.3  | 380.9  | 432.3  | 480.3  | 886.8  | 1068.7 | 778.8  | 629.5  | 622.7  | 629.5  |
| 82.5° | 415.1   | 301.9  | 255.6  | 283.1  | 284.8  | 591.8  | 814.8  | 581.5  | 478.6  | 727.3  | 614.1  |
| 85°   | 178.4   | 151.0  | 144.1  | 140.6  | 130.4  | 264.2  | 458.0  | 312.2  | 487.2  | 217.8  | 200.7  |
| 87.5° | 53.2    | 60.1   | 53.2   | 39.5   | 29.1   | 29.1   | 46.4   | 17.1   | 12.0   | 8.6    | 8.6    |
| 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)