

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: P454185

Luminaire Tested: **GLAN-SA5B-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25735 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 204  
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

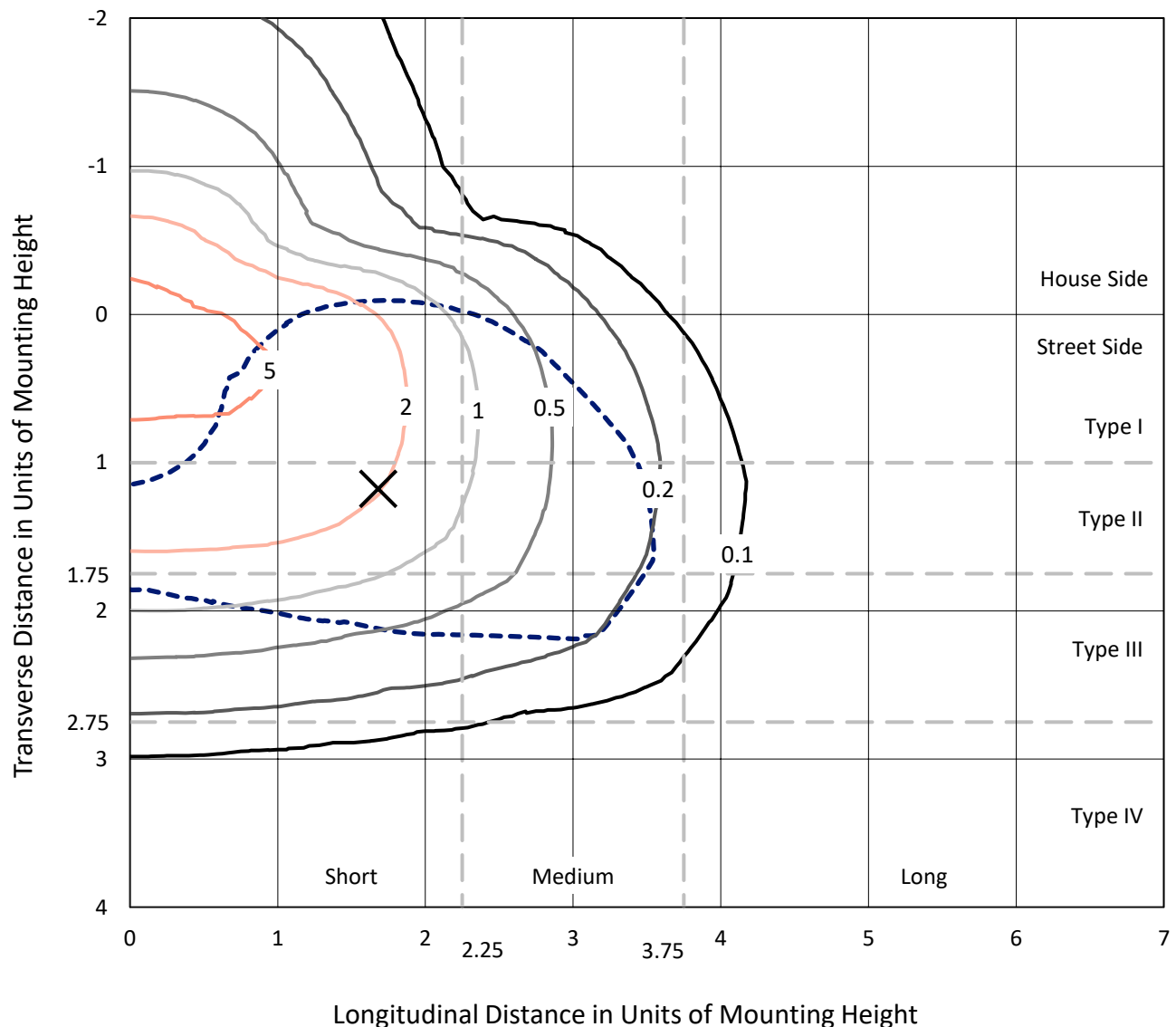


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

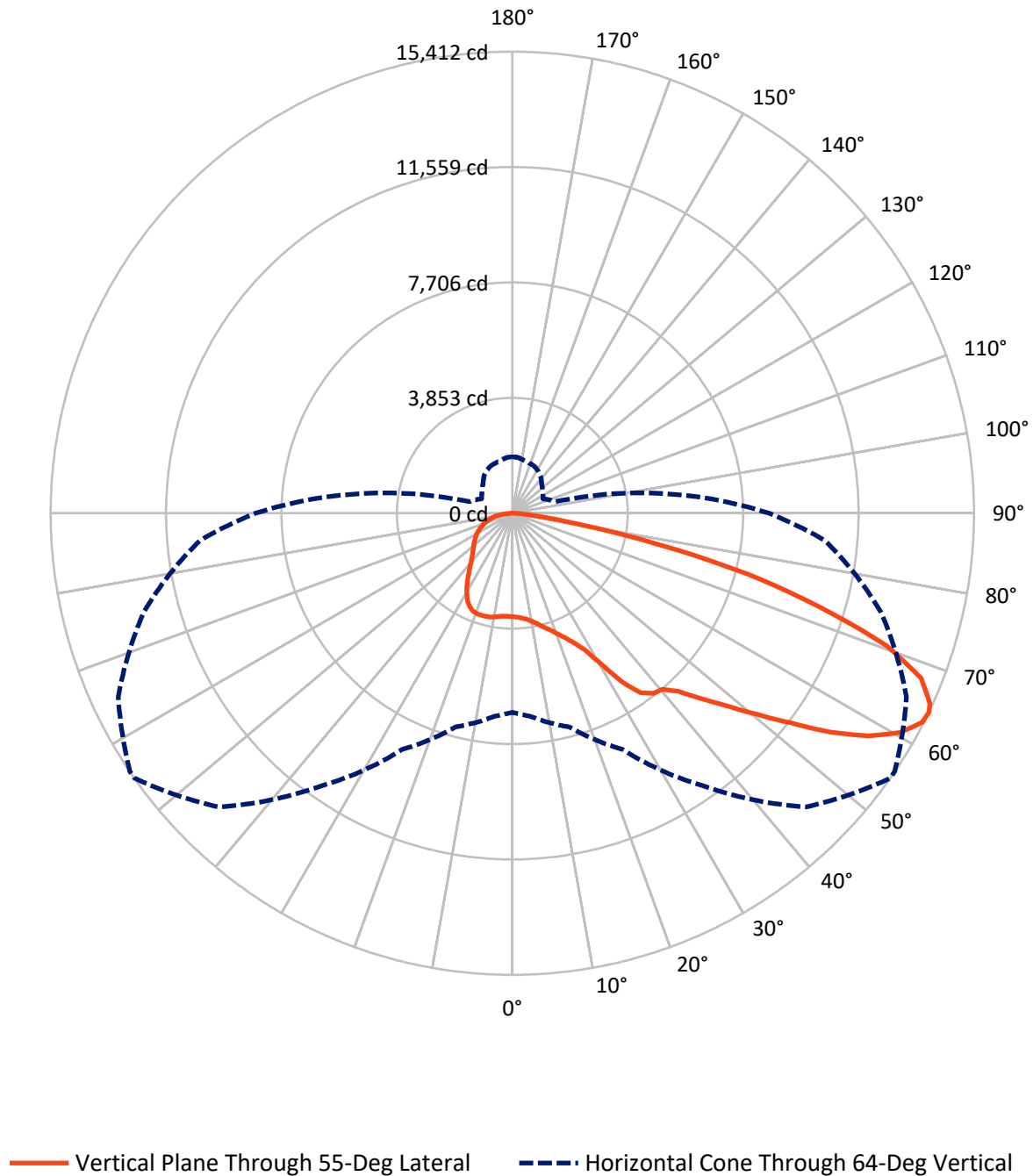


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6251.5   | 0.0    | 6251.5  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 19483.5  | 0.0    | 19483.5 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 25735.0  | 0.0    | 25735.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 335.9   | 1.3       |
| 10°-20°   | 1059.8  | 4.1       |
| 20°-30°   | 1886.7  | 7.3       |
| 30°-40°   | 2902.9  | 11.3      |
| 40°-50°   | 4115.0  | 16.0      |
| 50°-60°   | 5956.4  | 23.1      |
| 60°-70°   | 6164.3  | 24.0      |
| 70°-80°   | 2886.7  | 11.2      |
| 80°-90°   | 427.3   | 1.7       |
| 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°    | 25735.0 | 100.0     |
| 0°-180°   | 25735.0 | 100.0     |

**Coefficient of Utilization**



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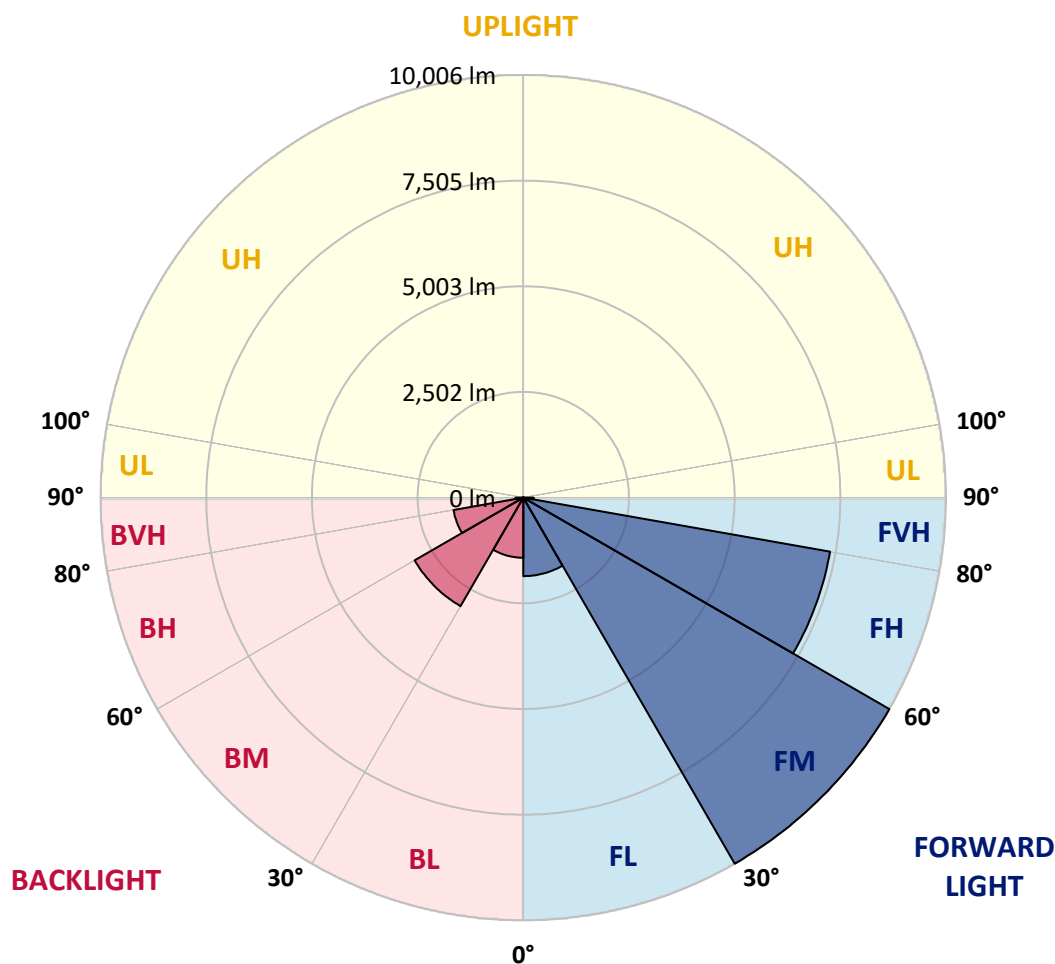
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1858.5  | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 10006.5 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 7373.8  | 28.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 244.7   | 1.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1423.9  | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2967.9  | 11.5      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1677.2  | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 182.7   | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3452.9 | 3452.9 | 3452.9 | 3452.9  | 3452.9  | 3452.9  | 3452.9  | 3452.9  | 3452.9  | 3452.9  | 3452.9  |
| 2.5°  | 3491.6 | 3490.2 | 3494.5 | 3490.2  | 3493.0  | 3483.0  | 3478.7  | 3481.6  | 3477.2  | 3470.1  | 3457.2  |
| 5°    | 3534.6 | 3533.2 | 3534.6 | 3528.9  | 3531.8  | 3526.0  | 3516.0  | 3518.8  | 3511.7  | 3495.9  | 3477.2  |
| 7.5°  | 3607.8 | 3602.0 | 3602.0 | 3600.6  | 3594.9  | 3586.3  | 3579.1  | 3576.2  | 3569.1  | 3549.0  | 3520.3  |
| 10°   | 3702.5 | 3702.5 | 3703.9 | 3692.4  | 3699.6  | 3683.8  | 3676.6  | 3675.2  | 3650.8  | 3625.0  | 3584.8  |
| 12.5° | 3827.3 | 3834.4 | 3830.1 | 3824.4  | 3821.5  | 3815.8  | 3791.4  | 3797.1  | 3769.9  | 3725.4  | 3676.6  |
| 15°   | 3982.2 | 3993.7 | 3986.5 | 3983.6  | 3976.5  | 3954.9  | 3944.9  | 3940.6  | 3904.7  | 3840.2  | 3775.6  |
| 17.5° | 4187.3 | 4173.0 | 4167.2 | 4160.1  | 4129.9  | 4114.2  | 4097.0  | 4094.1  | 4062.5  | 3986.5  | 3886.1  |
| 20°   | 4366.6 | 4386.7 | 4375.2 | 4368.1  | 4338.0  | 4307.8  | 4294.9  | 4290.6  | 4263.4  | 4180.2  | 4019.5  |
| 22.5° | 4580.4 | 4584.7 | 4589.0 | 4571.8  | 4557.4  | 4534.5  | 4511.5  | 4504.4  | 4494.3  | 4408.2  | 4211.7  |
| 25°   | 4808.5 | 4825.7 | 4811.3 | 4794.1  | 4776.9  | 4775.5  | 4797.0  | 4794.1  | 4789.8  | 4706.6  | 4467.1  |
| 27.5° | 5180.0 | 5195.8 | 5200.1 | 5181.4  | 5115.5  | 5121.2  | 5170.0  | 5185.7  | 5251.7  | 5114.0  | 4795.6  |
| 30°   | 5389.4 | 5405.2 | 5441.1 | 5511.4  | 5616.1  | 5707.9  | 5825.5  | 5861.4  | 5924.5  | 5664.9  | 5185.7  |
| 32.5° | 5518.6 | 5524.3 | 5588.8 | 5719.4  | 6033.5  | 6376.4  | 6696.3  | 6709.2  | 6749.4  | 6385.0  | 5542.9  |
| 35°   | 5722.3 | 5726.6 | 5778.2 | 5921.6  | 6290.3  | 6861.3  | 7356.2  | 7371.9  | 7338.9  | 6608.8  | 5709.3  |
| 37.5° | 5973.3 | 5984.8 | 6017.8 | 6136.8  | 6577.2  | 7267.2  | 7630.1  | 7618.7  | 7326.0  | 6786.7  | 6003.4  |
| 40°   | 6339.1 | 6339.1 | 6300.4 | 6461.0  | 6879.9  | 7499.6  | 7726.3  | 7706.2  | 7628.7  | 7301.6  | 6451.0  |
| 42.5° | 6661.9 | 6656.1 | 6747.9 | 6856.9  | 7258.6  | 7858.2  | 8129.4  | 8162.3  | 8290.0  | 7948.6  | 6960.2  |
| 45°   | 7082.2 | 7108.0 | 7159.6 | 7357.6  | 7902.7  | 8470.8  | 8820.8  | 8852.3  | 9033.1  | 8710.3  | 7555.6  |
| 47.5° | 7506.8 | 7515.4 | 7677.5 | 7941.4  | 8700.3  | 9301.3  | 9588.3  | 9639.9  | 9804.9  | 9601.2  | 8196.8  |
| 50°   | 7808.0 | 7889.8 | 8149.4 | 8565.4  | 9522.3  | 10314.1 | 10537.9 | 10599.6 | 10890.8 | 10570.9 | 8944.2  |
| 52.5° | 8126.5 | 8206.8 | 8523.8 | 9157.9  | 10466.2 | 11349.8 | 11625.3 | 11666.9 | 11969.5 | 11552.1 | 9708.7  |
| 55°   | 8399.0 | 8473.6 | 8833.7 | 9682.9  | 11217.9 | 12407.1 | 12906.3 | 12857.5 | 13002.4 | 12308.1 | 10298.3 |
| 57.5° | 8443.5 | 8503.8 | 8957.1 | 10018.6 | 11783.0 | 13313.7 | 14029.5 | 14058.2 | 13890.3 | 12873.3 | 10784.6 |
| 60°   | 8099.2 | 8222.6 | 8743.3 | 9982.7  | 12037.0 | 13944.9 | 14867.2 | 14887.3 | 14411.1 | 13163.0 | 10978.3 |
| 62.5° | 7489.6 | 7476.7 | 8106.4 | 9406.1  | 11681.2 | 14088.3 | 15360.7 | 15339.2 | 14614.8 | 13023.9 | 10790.4 |
| 64°   | 6647.5 | 6802.4 | 7390.6 | 8697.4  | 11107.4 | 13867.4 | 15412.4 | 15400.9 | 14517.2 | 12734.1 | 10470.5 |
| 65°   | 6134.0 | 6125.3 | 6706.3 | 8117.9  | 10536.5 | 13534.6 | 15320.5 | 15304.8 | 14313.5 | 12474.5 | 10222.3 |
| 67.5° | 4428.3 | 4448.4 | 5022.2 | 6264.5  | 8565.4  | 12233.5 | 14722.4 | 14663.5 | 13510.2 | 11613.8 | 9278.4  |
| 70°   | 2682.5 | 2694.0 | 3144.4 | 4155.8  | 6148.3  | 9889.5  | 13270.6 | 13273.5 | 12280.8 | 10328.5 | 7897.0  |
| 72.5° | 1413.0 | 1443.1 | 1623.9 | 2359.8  | 3734.0  | 6938.7  | 10766.0 | 11021.3 | 10543.6 | 8815.1  | 6238.7  |
| 75°   | 786.1  | 790.4  | 918.1  | 1163.4  | 1905.0  | 3883.2  | 8092.1  | 8165.2  | 8347.4  | 7095.1  | 4613.4  |
| 77.5° | 599.6  | 608.2  | 648.4  | 751.7   | 1037.1  | 1800.3  | 4897.4  | 5264.6  | 5882.9  | 5002.1  | 2632.3  |
| 80°   | 486.3  | 494.9  | 529.3  | 591.0   | 690.0   | 853.5   | 2275.1  | 2473.1  | 3148.7  | 2220.6  | 1027.1  |
| 82.5° | 378.7  | 373.0  | 417.4  | 457.6   | 502.1   | 504.9   | 933.9   | 1032.8  | 1282.4  | 955.4   | 444.7   |
| 85°   | 281.2  | 281.2  | 317.0  | 308.4   | 324.2   | 295.5   | 411.7   | 454.7   | 513.6   | 406.0   | 206.6   |
| 87.5° | 111.9  | 123.4  | 208.0  | 186.5   | 144.9   | 116.2   | 152.1   | 160.7   | 177.9   | 159.2   | 86.1    |
| 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°    | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 | 3452.9 |
| 2.5°  | 3458.6 | 3462.9 | 3452.9 | 3445.7 | 3442.8 | 3438.5 | 3434.2 | 3435.6 | 3441.4 | 3447.1 | 3445.7 |
| 5°    | 3475.8 | 3477.2 | 3460.0 | 3451.4 | 3445.7 | 3439.9 | 3439.9 | 3444.3 | 3455.7 | 3464.3 | 3464.3 |
| 7.5°  | 3518.8 | 3518.8 | 3494.5 | 3478.7 | 3470.1 | 3460.0 | 3457.2 | 3458.6 | 3467.2 | 3478.7 | 3480.1 |
| 10°   | 3586.3 | 3580.5 | 3549.0 | 3524.6 | 3508.8 | 3484.4 | 3462.9 | 3451.4 | 3455.7 | 3462.9 | 3462.9 |
| 12.5° | 3668.0 | 3652.3 | 3612.1 | 3579.1 | 3540.4 | 3494.5 | 3450.0 | 3427.0 | 3425.6 | 3432.8 | 3429.9 |
| 15°   | 3755.5 | 3738.3 | 3682.4 | 3622.1 | 3554.7 | 3487.3 | 3434.2 | 3401.2 | 3375.4 | 3368.2 | 3384.0 |
| 17.5° | 3857.4 | 3821.5 | 3744.1 | 3660.9 | 3560.4 | 3472.9 | 3389.7 | 3322.3 | 3276.4 | 3263.5 | 3267.8 |
| 20°   | 3980.8 | 3933.4 | 3828.7 | 3698.2 | 3556.1 | 3421.3 | 3292.2 | 3201.8 | 3127.2 | 3104.3 | 3107.1 |
| 22.5° | 4151.5 | 4069.7 | 3916.2 | 3716.8 | 3520.3 | 3323.8 | 3144.4 | 3026.8 | 2936.4 | 2900.6 | 2922.1 |
| 25°   | 4345.1 | 4256.2 | 3999.4 | 3712.5 | 3427.0 | 3167.4 | 2969.4 | 2815.9 | 2734.2 | 2681.1 | 2692.6 |
| 27.5° | 4611.9 | 4454.1 | 4088.3 | 3673.8 | 3293.6 | 2976.6 | 2747.1 | 2602.2 | 2527.6 | 2500.3 | 2513.3 |
| 30°   | 4953.4 | 4710.9 | 4184.5 | 3569.1 | 3082.8 | 2735.6 | 2523.3 | 2428.6 | 2384.2 | 2349.7 | 2361.2 |
| 32.5° | 5200.1 | 4891.7 | 4206.0 | 3392.6 | 2854.7 | 2516.1 | 2371.2 | 2301.0 | 2252.2 | 2219.2 | 2226.4 |
| 35°   | 5376.5 | 5045.2 | 4195.9 | 3176.0 | 2616.5 | 2335.4 | 2250.7 | 2193.4 | 2114.5 | 2042.7 | 2029.8 |
| 37.5° | 5613.2 | 5237.4 | 4122.8 | 2939.3 | 2381.3 | 2213.4 | 2153.2 | 2047.0 | 1933.7 | 1837.6 | 1833.3 |
| 40°   | 5976.2 | 5462.6 | 3966.4 | 2661.0 | 2180.5 | 2123.1 | 2049.9 | 1912.2 | 1790.3 | 1712.8 | 1707.1 |
| 42.5° | 6350.6 | 5670.6 | 3754.1 | 2368.4 | 2015.5 | 2028.4 | 1939.5 | 1803.2 | 1728.6 | 1678.4 | 1672.6 |
| 45°   | 6808.2 | 5895.8 | 3524.6 | 2114.5 | 1893.6 | 1939.5 | 1843.3 | 1764.4 | 1720.0 | 1687.0 | 1678.4 |
| 47.5° | 7303.1 | 6126.8 | 3266.4 | 1886.4 | 1790.3 | 1857.7 | 1803.2 | 1767.3 | 1742.9 | 1720.0 | 1709.9 |
| 50°   | 7836.7 | 6385.0 | 3023.9 | 1702.8 | 1697.0 | 1773.1 | 1798.9 | 1786.0 | 1771.6 | 1764.4 | 1755.8 |
| 52.5° | 8422.0 | 6648.9 | 2820.2 | 1573.7 | 1615.3 | 1712.8 | 1800.3 | 1810.3 | 1810.3 | 1806.0 | 1800.3 |
| 55°   | 8817.9 | 6832.6 | 2613.7 | 1468.9 | 1532.1 | 1664.0 | 1797.4 | 1836.2 | 1850.5 | 1844.8 | 1839.0 |
| 57.5° | 9110.6 | 6933.0 | 2354.0 | 1378.6 | 1461.8 | 1616.7 | 1781.7 | 1839.0 | 1853.4 | 1860.6 | 1857.7 |
| 60°   | 9170.8 | 6839.7 | 2014.0 | 1283.9 | 1385.7 | 1547.8 | 1724.3 | 1796.0 | 1814.7 | 1859.1 | 1863.4 |
| 62.5° | 8899.7 | 6552.8 | 1675.5 | 1190.6 | 1292.5 | 1443.1 | 1646.8 | 1747.2 | 1784.5 | 1853.4 | 1860.6 |
| 64°   | 8566.9 | 6231.5 | 1487.6 | 1131.8 | 1232.2 | 1384.3 | 1608.1 | 1734.3 | 1783.1 | 1874.9 | 1880.6 |
| 65°   | 8323.0 | 5997.7 | 1370.0 | 1094.5 | 1193.5 | 1345.6 | 1586.6 | 1738.6 | 1796.0 | 1907.9 | 1916.5 |
| 67.5° | 7425.0 | 5192.9 | 1133.3 | 1007.0 | 1101.7 | 1279.6 | 1590.9 | 1774.5 | 1793.1 | 1920.8 | 1919.4 |
| 70°   | 6144.0 | 4134.3 | 949.6  | 926.7  | 1012.8 | 1226.5 | 1573.7 | 1717.1 | 1718.5 | 1803.2 | 1783.1 |
| 72.5° | 4600.5 | 3055.5 | 823.4  | 843.5  | 913.8  | 1100.3 | 1486.2 | 1639.6 | 1615.3 | 1626.7 | 1606.6 |
| 75°   | 3160.2 | 2021.2 | 708.6  | 754.6  | 810.5  | 972.6  | 1362.8 | 1489.0 | 1450.3 | 1435.9 | 1421.6 |
| 77.5° | 1687.0 | 1117.5 | 589.6  | 667.0  | 704.3  | 840.6  | 1189.2 | 1311.1 | 1271.0 | 1215.0 | 1196.4 |
| 80°   | 682.8  | 526.5  | 474.8  | 552.3  | 573.8  | 677.1  | 989.8  | 1065.8 | 1035.7 | 938.2  | 906.6  |
| 82.5° | 342.8  | 315.6  | 373.0  | 434.7  | 436.1  | 483.4  | 735.9  | 807.6  | 740.2  | 621.1  | 593.9  |
| 85°   | 179.3  | 185.1  | 256.8  | 305.6  | 269.7  | 261.1  | 441.8  | 489.2  | 449.0  | 390.2  | 351.5  |
| 87.5° | 64.6   | 74.6   | 134.8  | 133.4  | 94.7   | 50.2   | 97.5   | 47.3   | 25.8   | 15.8   | 20.1   |
| 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)