

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: P319594

Luminaire Tested: **GAN-SA0A-727-U-SL3**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P319594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 38578 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 323  
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

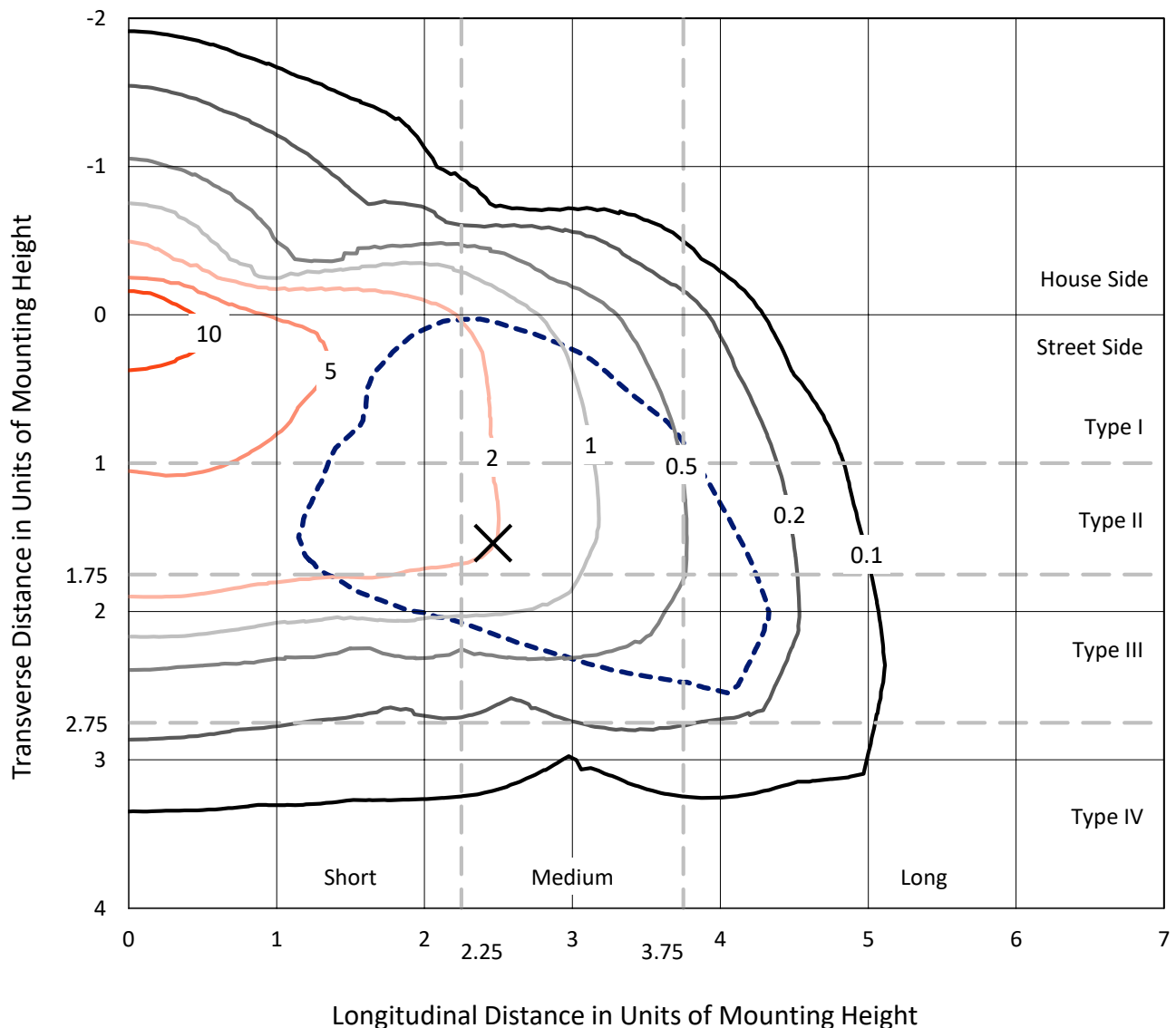


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## Iso-Footcandle Lines of Horizontal Illumination

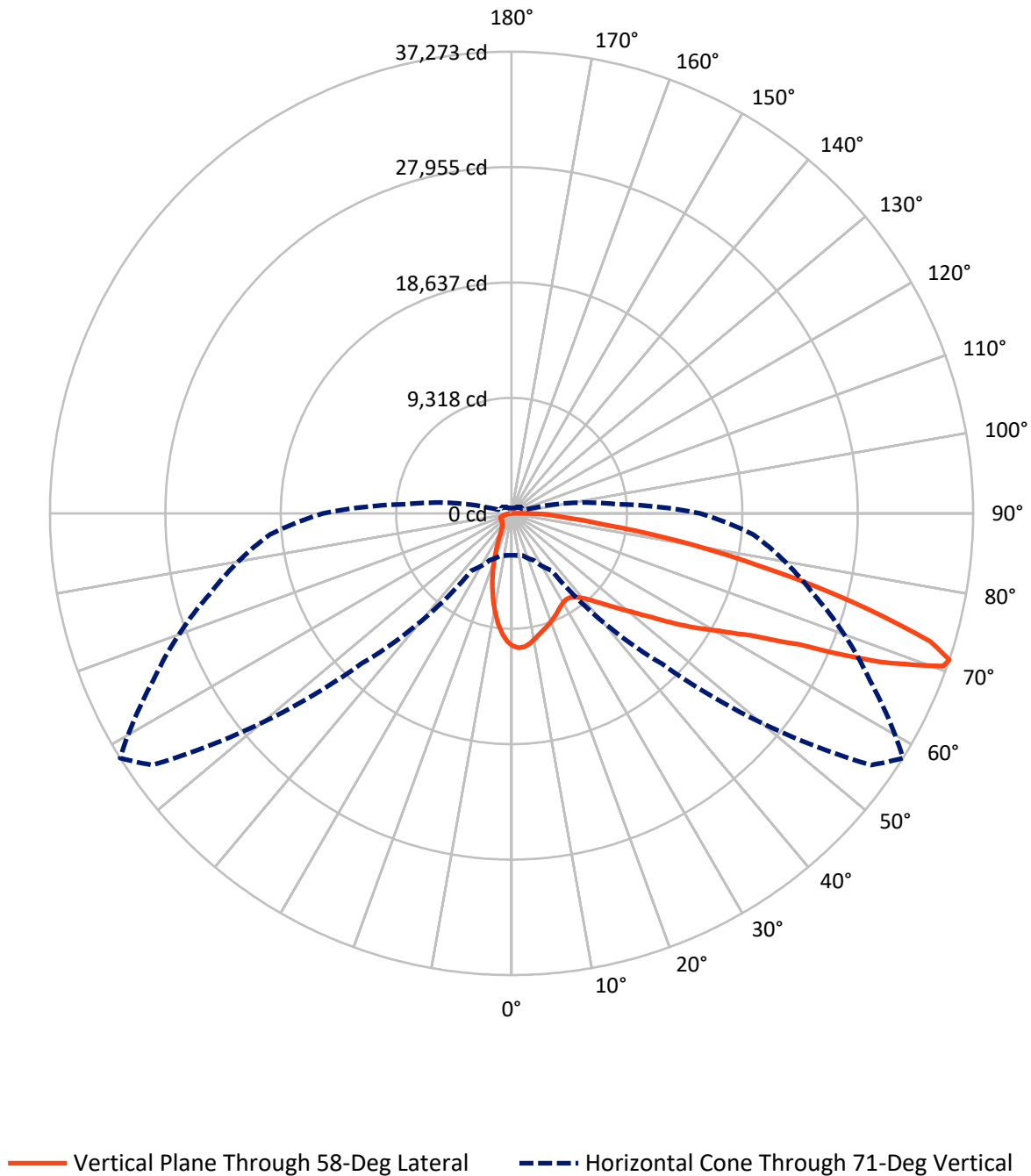
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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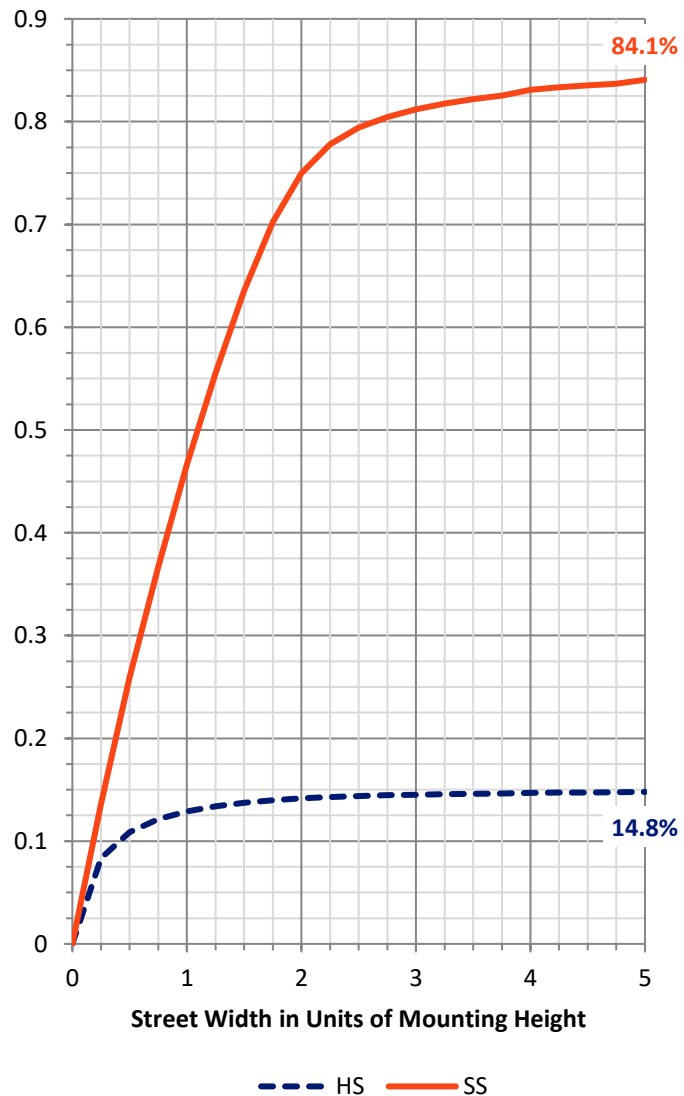
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5767.7   | 0.0    | 5767.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 32810.3  | 0.0    | 32810.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 38578.0  | 0.0    | 38578.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 922.1   | 2.4       |
| 10°-20°   | 2050.4  | 5.3       |
| 20°-30°   | 2605.9  | 6.8       |
| 30°-40°   | 3319.4  | 8.6       |
| 40°-50°   | 4707.0  | 12.2      |
| 50°-60°   | 7284.3  | 18.9      |
| 60°-70°   | 9916.7  | 25.7      |
| 70°-80°   | 6615.6  | 17.1      |
| 80°-90°   | 1156.6  | 3.0       |
| 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°    | 38578.0 | 100.0     |
| 0°-180°   | 38578.0 | 100.0     |

**Coefficient of Utilization**



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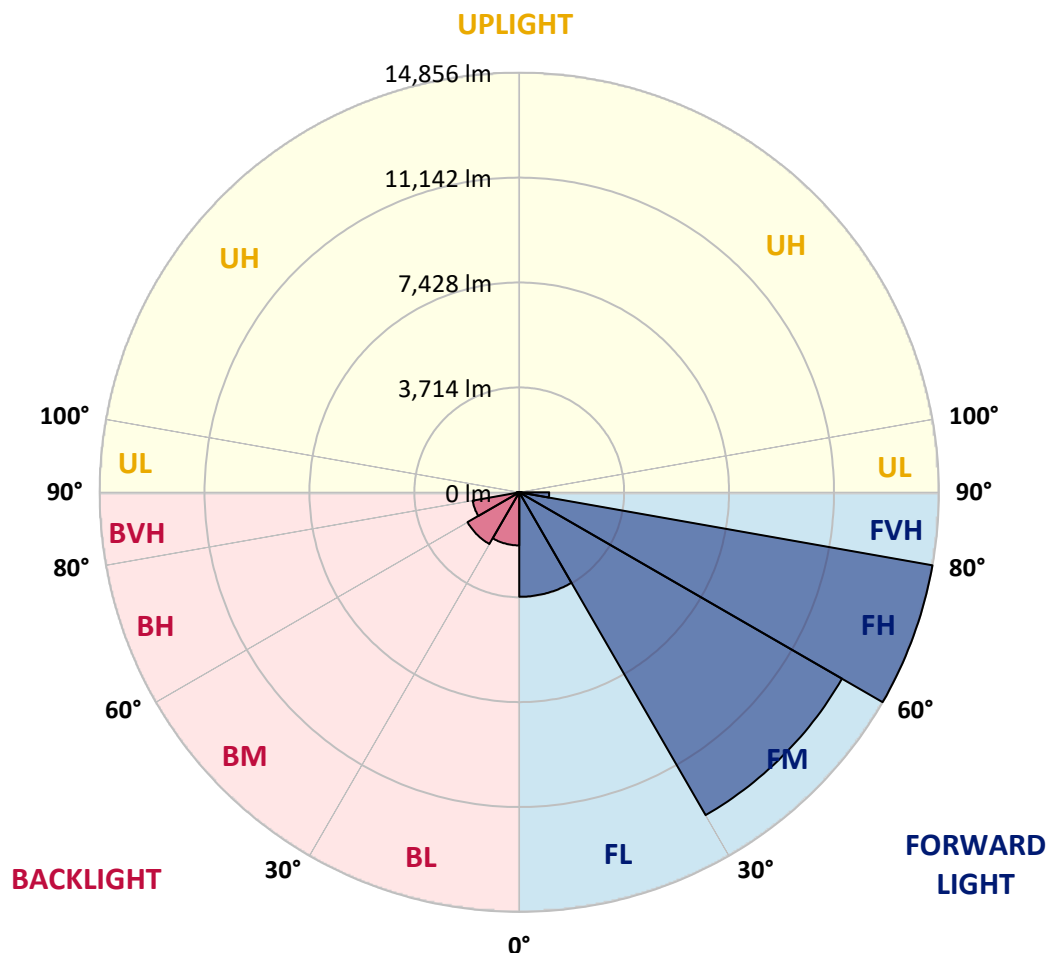
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3698.3  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 13195.5 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 14855.9 | 38.5      |                         |      | G5      |
| FVH  | (80°-90°)   | 1060.5  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1880.1  | 4.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2115.2  | 5.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1676.3  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 96.1    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 |
| 2.5°  | 10972.2 | 10957.4 | 10962.8 | 10952.1 | 10926.5 | 10901.0 | 10863.4 | 10870.1 | 10817.7 | 10739.7 | 10643.0 |
| 5°    | 10765.3 | 10759.9 | 10800.2 | 10823.1 | 10841.9 | 10827.1 | 10816.3 | 10829.8 | 10753.2 | 10645.7 | 10477.7 |
| 7.5°  | 10331.2 | 10272.1 | 10323.2 | 10399.8 | 10472.3 | 10527.4 | 10600.0 | 10609.4 | 10561.0 | 10448.1 | 10227.8 |
| 10°   | 9714.4  | 9658.0  | 9733.2  | 9852.8  | 9998.0  | 10129.7 | 10276.1 | 10303.0 | 10312.4 | 10210.3 | 9942.9  |
| 12.5° | 9074.8  | 9031.8  | 9107.0  | 9275.0  | 9515.5  | 9718.5  | 9952.3  | 9992.6  | 10075.9 | 10007.4 | 9679.5  |
| 15°   | 8502.3  | 8486.2  | 8577.6  | 8742.8  | 9019.7  | 9330.1  | 9667.4  | 9741.3  | 9882.4  | 9859.6  | 9473.9  |
| 17.5° | 8007.8  | 8003.7  | 8073.6  | 8247.0  | 8553.4  | 8945.8  | 9383.8  | 9508.8  | 9718.5  | 9745.3  | 9304.6  |
| 20°   | 7639.6  | 7631.5  | 7679.9  | 7807.6  | 8123.3  | 8568.1  | 9077.5  | 9249.5  | 9551.8  | 9645.9  | 9129.9  |
| 22.5° | 7442.0  | 7440.7  | 7442.0  | 7502.5  | 7760.5  | 8174.4  | 8779.1  | 8988.8  | 9389.2  | 9566.6  | 8936.4  |
| 25°   | 7408.4  | 7404.4  | 7374.8  | 7368.1  | 7514.6  | 7845.2  | 8483.5  | 8714.6  | 9234.7  | 9511.5  | 8752.3  |
| 27.5° | 7495.8  | 7501.2  | 7462.2  | 7399.0  | 7428.6  | 7628.8  | 8226.8  | 8474.1  | 9111.0  | 9500.8  | 8624.6  |
| 30°   | 7677.2  | 7674.5  | 7640.9  | 7575.1  | 7517.3  | 7548.2  | 8044.1  | 8291.3  | 9027.7  | 9547.8  | 8537.2  |
| 32.5° | 7877.4  | 7892.2  | 7885.5  | 7849.2  | 7763.2  | 7639.6  | 7989.0  | 8230.9  | 9003.5  | 9660.7  | 8499.6  |
| 35°   | 8118.0  | 8134.1  | 8182.5  | 8210.7  | 8109.9  | 7911.0  | 8107.2  | 8316.9  | 9073.4  | 9873.0  | 8560.1  |
| 37.5° | 8346.4  | 8388.1  | 8523.8  | 8643.4  | 8557.4  | 8335.7  | 8421.7  | 8570.8  | 9289.8  | 10207.6 | 8722.7  |
| 40°   | 8609.8  | 8646.1  | 8867.8  | 9121.8  | 9108.4  | 8878.6  | 8928.3  | 9027.7  | 9671.4  | 10687.3 | 9017.0  |
| 42.5° | 8869.2  | 8941.7  | 9262.9  | 9623.0  | 9726.5  | 9523.6  | 9602.9  | 9655.3  | 10208.9 | 11323.0 | 9530.3  |
| 45°   | 9214.5  | 9292.5  | 9738.6  | 10172.7 | 10414.5 | 10300.3 | 10426.6 | 10446.8 | 10884.9 | 12188.4 | 10276.1 |
| 47.5° | 9737.3  | 9826.0  | 10346.0 | 10801.6 | 11171.1 | 11183.2 | 11391.5 | 11383.4 | 11728.8 | 13178.8 | 11215.5 |
| 50°   | 10551.6 | 10679.3 | 11105.3 | 11531.3 | 11980.1 | 12230.0 | 12508.2 | 12469.2 | 12740.7 | 14233.7 | 12297.2 |
| 52.5° | 11618.6 | 11677.7 | 11993.5 | 12308.0 | 12865.7 | 13426.0 | 13825.1 | 13790.2 | 13888.3 | 15318.1 | 13525.5 |
| 55°   | 12724.6 | 12768.9 | 12899.3 | 13071.3 | 13821.1 | 14734.9 | 15578.8 | 15523.7 | 15275.1 | 16444.2 | 14738.9 |
| 57.5° | 13719.0 | 13809.0 | 13899.1 | 13970.3 | 14783.3 | 16102.9 | 17372.8 | 17376.8 | 16780.2 | 17659.0 | 15992.7 |
| 60°   | 13873.5 | 13952.8 | 14548.1 | 15109.8 | 16429.5 | 17927.8 | 19293.1 | 19252.8 | 18337.7 | 18977.3 | 17390.3 |
| 62.5° | 12263.6 | 12442.4 | 13436.8 | 14931.1 | 18015.2 | 21265.8 | 21742.9 | 21693.2 | 20200.2 | 20602.0 | 19017.6 |
| 65°   | 8788.5  | 8991.4  | 10191.5 | 12437.0 | 17246.5 | 24943.8 | 26164.0 | 25494.8 | 22740.0 | 22600.2 | 20923.2 |
| 67.5° | 5070.2  | 5118.6  | 5638.6  | 7442.0  | 13131.7 | 25136.0 | 32908.6 | 31972.0 | 26684.1 | 24867.3 | 21855.8 |
| 70°   | 3749.2  | 3747.9  | 3871.5  | 4579.7  | 7106.1  | 20514.6 | 36116.3 | 36956.2 | 30836.5 | 25613.1 | 20537.5 |
| 71°   | 3390.4  | 3394.5  | 3532.9  | 4168.5  | 5627.9  | 17171.2 | 35435.0 | 37273.3 | 31930.3 | 25244.9 | 19583.4 |
| 72.5° | 2899.9  | 2913.4  | 3105.6  | 3738.5  | 4734.3  | 11841.7 | 32500.1 | 35370.5 | 32449.0 | 24336.4 | 18090.4 |
| 75°   | 2199.8  | 2230.7  | 2496.8  | 3151.2  | 4327.1  | 6005.5  | 23852.7 | 28244.3 | 28826.1 | 21474.1 | 13442.2 |
| 77.5° | 1569.6  | 1604.5  | 1905.5  | 2650.0  | 4113.4  | 4526.0  | 15973.9 | 20602.0 | 21213.4 | 13762.0 | 6063.3  |
| 80°   | 991.7   | 1033.4  | 1260.5  | 2108.4  | 3864.8  | 4297.5  | 10038.3 | 13848.0 | 11567.5 | 4403.7  | 1542.7  |
| 82.5° | 581.9   | 614.1   | 782.1   | 1377.4  | 3156.6  | 4138.9  | 5906.1  | 7675.9  | 4501.8  | 1330.4  | 701.5   |
| 85°   | 337.3   | 352.1   | 487.8   | 877.5   | 2292.5  | 3906.5  | 4339.2  | 4290.8  | 1953.9  | 650.4   | 331.9   |
| 87.5° | 157.2   | 174.7   | 288.9   | 458.2   | 1272.6  | 2831.4  | 3429.4  | 2963.1  | 1214.8  | 305.0   | 155.9   |
| 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°    | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 | 10688.7 |
| 2.5°  | 10596.0 | 10573.1 | 10477.7 | 10393.0 | 10304.4 | 10188.8 | 10061.1 | 10045.0 | 9967.1  | 9981.8  | 9955.0  |
| 5°    | 10386.3 | 10328.5 | 10098.8 | 9890.5  | 9644.5  | 9424.2  | 9185.0  | 9074.8  | 8916.2  | 8905.4  | 8865.1  |
| 7.5°  | 10086.7 | 9979.2  | 9623.0  | 9228.0  | 8832.9  | 8456.6  | 8084.4  | 7839.8  | 7589.9  | 7483.7  | 7474.3  |
| 10°   | 9749.4  | 9566.6  | 9042.5  | 8458.0  | 7888.2  | 7338.6  | 6806.4  | 6412.7  | 6057.9  | 5889.9  | 5883.2  |
| 12.5° | 9429.5  | 9159.4  | 8440.5  | 7644.9  | 6865.5  | 6153.3  | 5423.6  | 4906.3  | 4461.5  | 4312.3  | 4249.1  |
| 15°   | 9158.1  | 8777.8  | 7854.6  | 6837.3  | 5891.3  | 4902.2  | 4071.8  | 3527.5  | 3116.3  | 2973.9  | 2947.0  |
| 17.5° | 8894.7  | 8405.5  | 7253.9  | 6021.6  | 4878.0  | 3790.9  | 2959.1  | 2554.6  | 2335.5  | 2277.8  | 2276.4  |
| 20°   | 8632.7  | 8022.6  | 6626.3  | 5187.1  | 3898.4  | 2835.4  | 2275.1  | 2093.7  | 2019.8  | 2013.0  | 2002.3  |
| 22.5° | 8335.7  | 7616.7  | 5966.5  | 4349.9  | 3042.4  | 2229.4  | 1933.7  | 1861.2  | 1851.8  | 1876.0  | 1876.0  |
| 25°   | 8057.5  | 7213.6  | 5297.3  | 3530.2  | 2366.5  | 1859.8  | 1726.8  | 1712.0  | 1737.5  | 1780.6  | 1784.6  |
| 27.5° | 7798.1  | 6825.2  | 4644.2  | 2801.8  | 1896.1  | 1638.1  | 1583.0  | 1600.5  | 1646.2  | 1695.9  | 1697.2  |
| 30°   | 7584.5  | 6458.4  | 4009.9  | 2207.9  | 1601.8  | 1472.8  | 1463.4  | 1498.4  | 1548.1  | 1587.0  | 1596.4  |
| 32.5° | 7419.2  | 6145.3  | 3397.2  | 1775.2  | 1409.7  | 1349.2  | 1357.3  | 1386.8  | 1417.7  | 1439.2  | 1454.0  |
| 35°   | 7342.6  | 5876.5  | 2831.4  | 1497.0  | 1287.4  | 1253.8  | 1264.5  | 1280.7  | 1294.1  | 1310.2  | 1322.3  |
| 37.5° | 7356.0  | 5668.2  | 2326.1  | 1323.7  | 1205.4  | 1187.9  | 1187.9  | 1187.9  | 1187.9  | 1196.0  | 1197.3  |
| 40°   | 7481.0  | 5548.6  | 1914.9  | 1213.5  | 1150.3  | 1131.5  | 1116.7  | 1103.3  | 1092.5  | 1097.9  | 1095.2  |
| 42.5° | 7800.8  | 5537.9  | 1613.9  | 1143.6  | 1106.0  | 1075.1  | 1045.5  | 1026.7  | 1013.2  | 1018.6  | 1021.3  |
| 45°   | 8343.7  | 5672.2  | 1411.0  | 1093.9  | 1064.3  | 1017.3  | 979.6   | 959.5   | 950.1   | 967.5   | 970.2   |
| 47.5° | 9046.5  | 5965.2  | 1287.4  | 1057.6  | 1025.3  | 963.5   | 923.2   | 904.4   | 907.1   | 932.6   | 939.3   |
| 50°   | 9952.3  | 6440.9  | 1228.2  | 1034.7  | 998.5   | 917.8   | 876.2   | 860.0   | 868.1   | 904.4   | 912.4   |
| 52.5° | 10946.7 | 7126.2  | 1235.0  | 1028.0  | 981.0   | 884.2   | 839.9   | 821.1   | 834.5   | 868.1   | 874.8   |
| 55°   | 12094.3 | 7950.0  | 1346.5  | 1037.4  | 955.5   | 862.7   | 810.3   | 778.1   | 788.8   | 819.7   | 825.1   |
| 57.5° | 13369.6 | 8893.4  | 1570.9  | 1034.7  | 923.2   | 842.6   | 779.4   | 731.0   | 739.1   | 757.9   | 763.3   |
| 60°   | 14697.3 | 10032.9 | 1919.0  | 1042.8  | 908.4   | 818.4   | 737.8   | 677.3   | 674.6   | 690.7   | 693.4   |
| 62.5° | 16291.0 | 11351.2 | 2316.7  | 1048.2  | 917.8   | 787.5   | 682.7   | 623.5   | 615.5   | 619.5   | 622.2   |
| 65°   | 17933.2 | 12305.3 | 2167.6  | 1026.7  | 947.4   | 761.9   | 634.3   | 571.1   | 556.3   | 553.7   | 555.0   |
| 67.5° | 17984.2 | 11282.7 | 1519.9  | 983.7   | 959.5   | 748.5   | 598.0   | 526.8   | 502.6   | 493.2   | 491.8   |
| 70°   | 16128.4 | 9166.1  | 1183.9  | 938.0   | 911.1   | 727.0   | 564.4   | 490.5   | 454.2   | 439.4   | 438.1   |
| 71°   | 15222.7 | 8437.8  | 1122.1  | 915.1   | 874.8   | 705.5   | 549.6   | 474.4   | 436.7   | 420.6   | 417.9   |
| 72.5° | 13802.3 | 7564.3  | 1046.8  | 878.9   | 804.9   | 650.4   | 521.4   | 451.5   | 412.6   | 393.7   | 389.7   |
| 75°   | 9905.2  | 4946.6  | 899.0   | 783.4   | 666.5   | 518.7   | 456.9   | 405.8   | 372.2   | 349.4   | 346.7   |
| 77.5° | 3816.4  | 1968.7  | 680.0   | 651.7   | 510.6   | 405.8   | 376.3   | 350.7   | 326.5   | 303.7   | 302.4   |
| 80°   | 1179.9  | 880.2   | 495.9   | 490.5   | 369.5   | 302.4   | 293.0   | 286.2   | 276.8   | 252.6   | 247.3   |
| 82.5° | 630.2   | 505.3   | 341.3   | 317.1   | 241.9   | 201.6   | 212.3   | 215.0   | 216.4   | 190.8   | 188.1   |
| 85°   | 301.0   | 267.4   | 192.2   | 180.1   | 141.1   | 112.9   | 130.3   | 141.1   | 142.4   | 116.9   | 108.8   |
| 87.5° | 143.8   | 139.8   | 90.0    | 68.5    | 52.4    | 37.6    | 45.7    | 56.4    | 61.8    | 44.3    | 39.0    |
| 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)