

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: P320893

Luminaire Tested: **GAN-SA9C-727-U-AFL**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P320893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 54251 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 501  
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

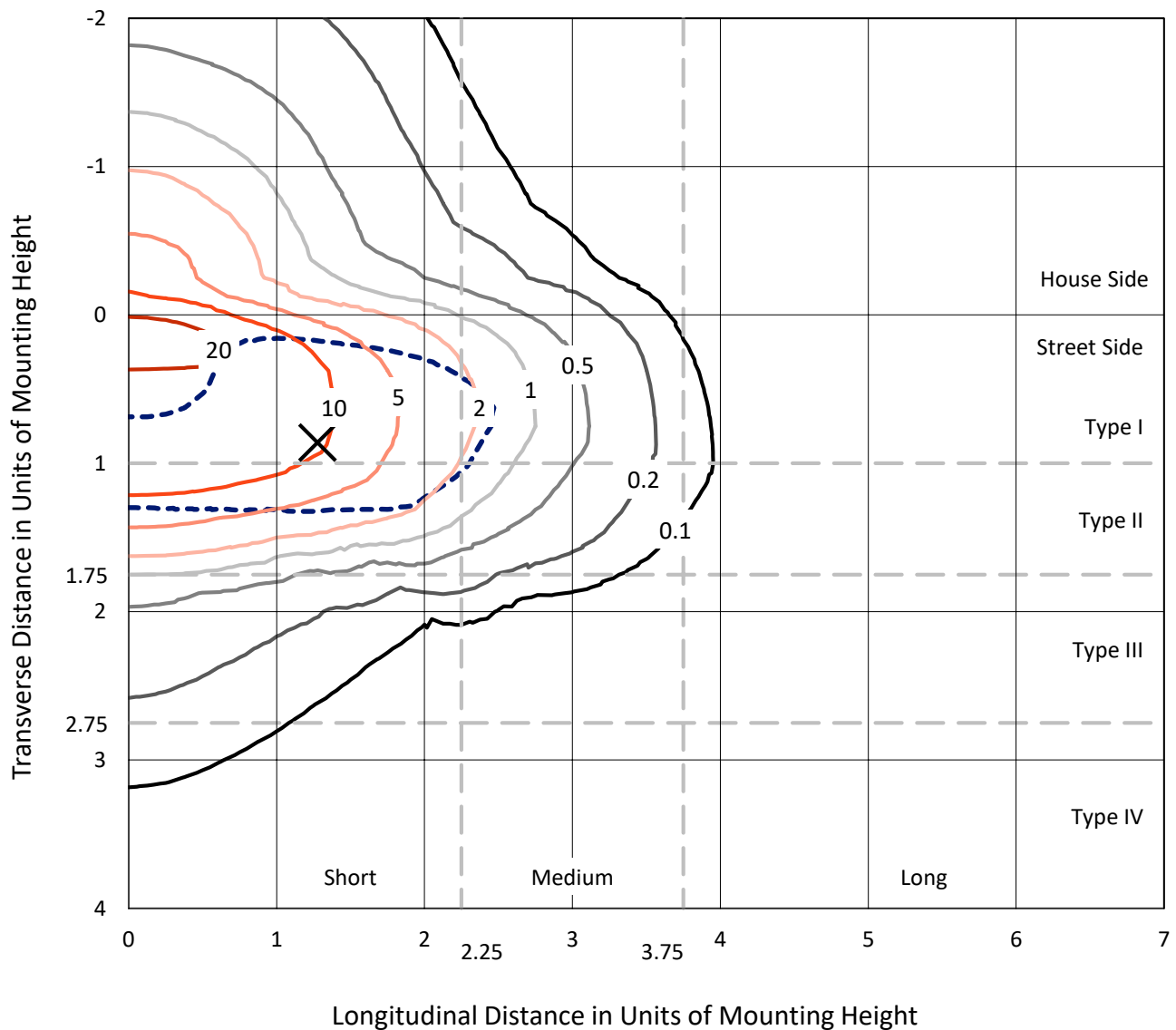


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

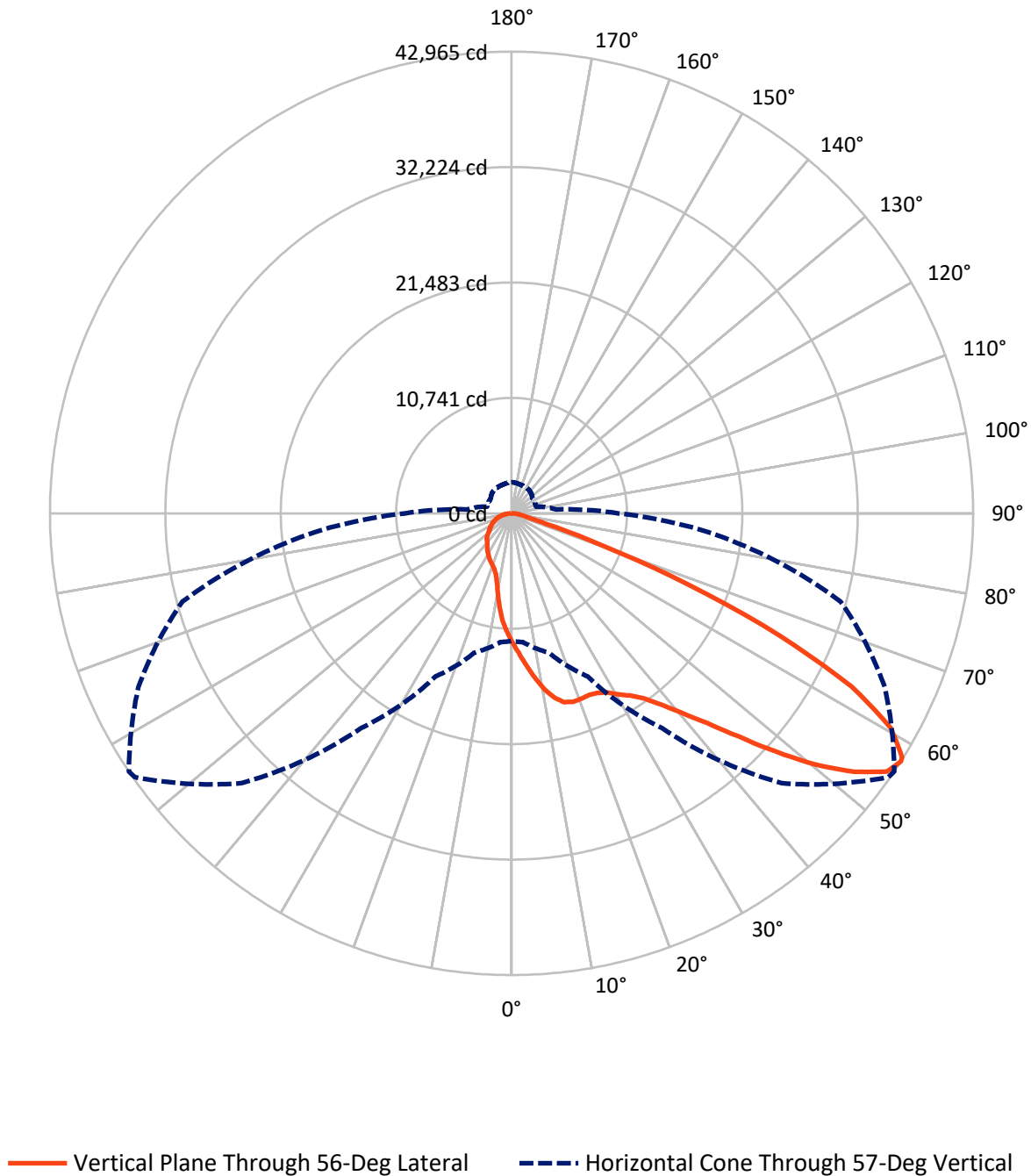


Based on 25 foot mounting height. Maximum calculated value = 26.7 fc

Type II - 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    | 9351.7   | 0.0    | 9351.7  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 44899.3  | 0.0    | 44899.3 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 54251.0  | 0.0    | 54251.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1149.5  | 2.1       |
| 10°-20°   | 3249.7  | 6.0       |
| 20°-30°   | 5293.2  | 9.8       |
| 30°-40°   | 7912.8  | 14.6      |
| 40°-50°   | 12002.0 | 22.1      |
| 50°-60°   | 13452.1 | 24.8      |
| 60°-70°   | 7945.4  | 14.6      |
| 70°-80°   | 2603.2  | 4.8       |
| 80°-90°   | 643.2   | 1.2       |
| 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°    | 54251.0 | 100.0     |
| 0°-180°   | 54251.0 | 100.0     |

**Coefficient of Utilization**



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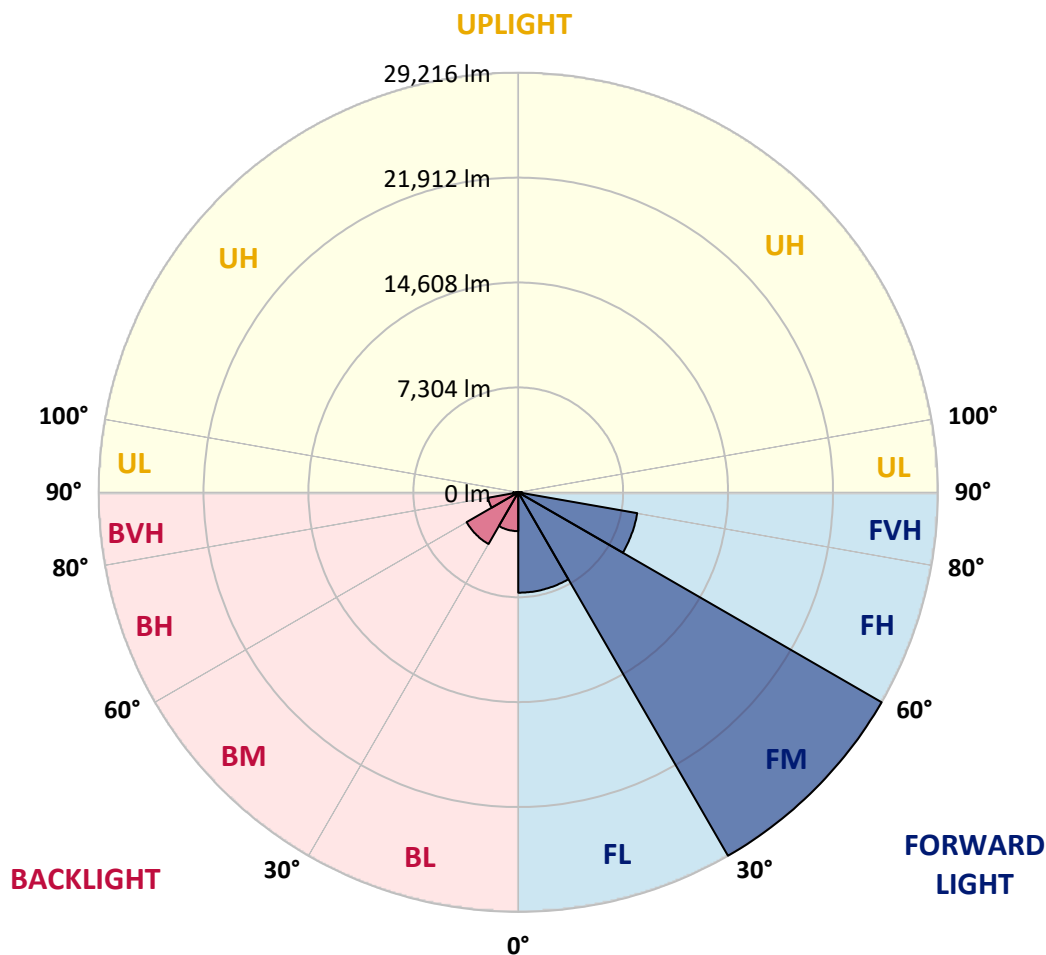
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 6988.3  | 12.9      |                         |      |          |
| FM   | (30°-60°)   | 29216.0 | 53.9      |                         |      |          |
| FH   | (60°-80°)   | 8411.8  | 15.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 283.2   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2704.1  | 5.0       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 4150.9  | 7.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2136.8  | 3.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 360.0   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 |
| 2.5°  | 13817.2 | 13943.9 | 13888.0 | 13694.1 | 13545.0 | 13334.3 | 13099.4 | 13028.5 | 12780.6 | 12502.8 | 12169.0 |
| 5°    | 16004.1 | 15940.7 | 15849.4 | 15547.3 | 15228.5 | 14857.5 | 14268.4 | 14175.1 | 13623.3 | 12995.0 | 12331.2 |
| 7.5°  | 17249.5 | 17244.0 | 17189.9 | 17012.8 | 16721.9 | 16237.2 | 15526.8 | 15416.8 | 14583.4 | 13572.9 | 12543.8 |
| 10°   | 17068.7 | 17055.6 | 17145.1 | 17329.7 | 17417.3 | 17316.7 | 16718.2 | 16608.2 | 15584.6 | 14212.4 | 12789.9 |
| 12.5° | 16041.4 | 16048.9 | 16192.4 | 16580.2 | 17107.9 | 17741.8 | 17644.8 | 17590.7 | 16623.1 | 14935.8 | 13088.2 |
| 15°   | 15241.6 | 15258.4 | 15372.1 | 15709.5 | 16332.3 | 17482.6 | 18207.9 | 18226.5 | 17628.0 | 15733.8 | 13436.8 |
| 17.5° | 14891.1 | 14926.5 | 14978.7 | 15215.5 | 15786.0 | 16966.2 | 18342.1 | 18442.8 | 18508.0 | 16561.6 | 13772.4 |
| 20°   | 15002.9 | 15036.5 | 15051.4 | 15202.4 | 15670.4 | 16652.9 | 18248.9 | 18429.7 | 19182.9 | 17340.9 | 14108.0 |
| 22.5° | 15504.5 | 15525.0 | 15534.3 | 15573.4 | 15937.0 | 16742.4 | 18187.3 | 18377.5 | 19671.4 | 18040.1 | 14361.6 |
| 25°   | 16336.0 | 16321.1 | 16261.4 | 16211.1 | 16455.3 | 17096.7 | 18329.0 | 18509.9 | 20068.5 | 18674.0 | 14527.5 |
| 27.5° | 17331.6 | 17312.9 | 17197.3 | 17059.4 | 17199.2 | 17648.5 | 18737.4 | 18880.9 | 20424.6 | 19266.8 | 14611.4 |
| 30°   | 18526.7 | 18478.2 | 18260.1 | 18096.0 | 18150.1 | 18476.3 | 19410.4 | 19540.9 | 20974.6 | 19939.9 | 14693.4 |
| 32.5° | 19908.2 | 19856.0 | 19540.9 | 19268.7 | 19268.7 | 19540.9 | 20104.0 | 20212.1 | 21440.7 | 20700.6 | 14825.8 |
| 35°   | 21638.4 | 21573.1 | 21163.0 | 20706.2 | 20577.5 | 20715.5 | 21049.2 | 21125.7 | 22279.7 | 21658.9 | 15066.3 |
| 37.5° | 23678.0 | 23590.4 | 23059.1 | 22447.5 | 22166.0 | 22158.5 | 22399.1 | 22555.7 | 23620.2 | 22917.4 | 15474.6 |
| 40°   | 25723.3 | 25661.8 | 25197.5 | 24716.5 | 24164.7 | 23987.5 | 24358.6 | 24407.0 | 25372.8 | 24479.7 | 15996.7 |
| 42.5° | 27304.3 | 27293.1 | 27207.4 | 27270.8 | 26705.9 | 26347.9 | 26638.7 | 26677.9 | 27513.1 | 26170.8 | 16552.3 |
| 45°   | 28139.6 | 28158.2 | 28574.0 | 29495.0 | 29703.8 | 29442.8 | 29586.4 | 29597.6 | 29959.3 | 27876.7 | 17061.2 |
| 47.5° | 27470.3 | 27567.2 | 28618.7 | 30678.9 | 32388.6 | 33255.5 | 33016.9 | 33154.9 | 32330.8 | 29342.1 | 17460.2 |
| 50°   | 24861.9 | 24981.3 | 26771.1 | 30151.3 | 33641.5 | 36945.2 | 36820.3 | 36788.6 | 34243.7 | 30416.0 | 17676.5 |
| 52.5° | 21630.9 | 21724.1 | 23200.8 | 27408.7 | 32722.3 | 38984.9 | 40131.5 | 39967.4 | 35944.0 | 31219.6 | 17717.5 |
| 55°   | 16710.7 | 16856.2 | 18271.2 | 21934.8 | 29004.7 | 38205.6 | 42566.4 | 42419.1 | 37493.3 | 31641.0 | 17669.0 |
| 57°   | 11880.0 | 12032.9 | 13438.7 | 16740.6 | 24399.6 | 35507.7 | 42808.8 | 42965.4 | 38330.5 | 31711.8 | 17723.1 |
| 57.5° | 10601.1 | 10757.7 | 12150.4 | 15357.2 | 22964.0 | 34532.7 | 42600.0 | 42861.0 | 38481.5 | 31700.6 | 17752.9 |
| 60°   | 5337.8  | 5397.5  | 6284.9  | 8572.6  | 14516.3 | 27917.7 | 39876.1 | 40549.1 | 38617.6 | 31152.5 | 17881.6 |
| 62.5° | 3318.7  | 3275.8  | 3247.8  | 3948.8  | 7062.4  | 18513.6 | 34254.9 | 35550.6 | 36013.0 | 29825.0 | 17570.2 |
| 65°   | 2917.8  | 2837.6  | 2530.0  | 2474.1  | 3119.2  | 8992.1  | 25796.0 | 27408.7 | 30447.7 | 27733.1 | 16828.2 |
| 67.5° | 2740.7  | 2662.4  | 2315.6  | 2106.8  | 2108.7  | 3564.8  | 16015.3 | 17831.2 | 23719.1 | 24196.4 | 15077.5 |
| 70°   | 2558.0  | 2487.1  | 2162.7  | 1916.6  | 1795.4  | 1974.4  | 7368.2  | 8746.0  | 15461.6 | 19018.9 | 12601.6 |
| 72.5° | 2323.1  | 2274.6  | 1967.0  | 1713.4  | 1584.8  | 1478.5  | 2820.9  | 3331.7  | 8951.0  | 12773.1 | 8751.6  |
| 75°   | 2077.0  | 2032.2  | 1769.3  | 1527.0  | 1370.3  | 1163.4  | 1588.5  | 1711.5  | 4547.3  | 6534.8  | 4308.7  |
| 77.5° | 1806.6  | 1780.5  | 1573.6  | 1349.8  | 1224.9  | 963.9   | 1124.2  | 1183.9  | 1950.2  | 2802.2  | 2160.9  |
| 80°   | 1437.5  | 1487.8  | 1375.9  | 1202.5  | 1087.0  | 771.9   | 796.1   | 835.3   | 1135.4  | 1368.5  | 1226.8  |
| 82.5° | 935.9   | 1023.6  | 1077.6  | 977.0   | 894.9   | 607.8   | 572.4   | 589.2   | 740.2   | 835.3   | 533.2   |
| 85°   | 389.7   | 438.1   | 708.5   | 639.5   | 594.7   | 443.7   | 384.1   | 391.5   | 458.6   | 475.4   | 218.1   |
| 87.5° | 173.4   | 184.6   | 311.4   | 292.7   | 251.7   | 152.9   | 164.1   | 179.0   | 244.2   | 231.2   | 83.9    |
| 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°    | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 | 12032.9 |
| 2.5°  | 12044.1 | 11887.5 | 11619.0 | 11322.6 | 11080.2 | 10886.3 | 10690.5 | 10556.3 | 10399.7 | 10315.8 | 10272.9 |
| 5°    | 12053.4 | 11745.8 | 11180.9 | 10601.1 | 10082.7 | 9609.2  | 9158.0  | 8811.2  | 8486.8  | 8311.6  | 8263.1  |
| 7.5°  | 12092.6 | 11630.2 | 10716.6 | 9762.1  | 8841.0  | 8000.2  | 7351.4  | 6944.9  | 6652.2  | 6521.7  | 6484.4  |
| 10°   | 12124.3 | 11494.1 | 10142.4 | 8729.2  | 7476.3  | 6624.3  | 6120.9  | 5893.4  | 5792.7  | 5776.0  | 5759.2  |
| 12.5° | 12198.9 | 11354.3 | 9538.3  | 7651.6  | 6415.4  | 5826.3  | 5651.0  | 5636.1  | 5664.1  | 5705.1  | 5705.1  |
| 15°   | 12316.3 | 11216.3 | 8848.5  | 6726.8  | 5740.5  | 5533.6  | 5569.0  | 5651.0  | 5727.5  | 5790.9  | 5800.2  |
| 17.5° | 12402.1 | 11046.6 | 8106.5  | 5986.6  | 5380.7  | 5436.6  | 5563.4  | 5679.0  | 5757.3  | 5818.8  | 5824.4  |
| 20°   | 12463.6 | 10783.8 | 7314.1  | 5421.7  | 5173.7  | 5347.1  | 5505.6  | 5608.2  | 5662.2  | 5723.7  | 5733.1  |
| 22.5° | 12431.9 | 10431.4 | 6611.2  | 5017.1  | 5005.9  | 5216.6  | 5367.6  | 5490.7  | 5449.7  | 5390.0  | 5429.2  |
| 25°   | 12279.0 | 9946.6  | 5887.8  | 4715.1  | 4828.8  | 5041.4  | 5227.8  | 5145.8  | 5007.8  | 4981.7  | 4996.6  |
| 27.5° | 12006.8 | 9327.7  | 5218.5  | 4435.4  | 4623.7  | 4879.2  | 4868.0  | 4785.9  | 4737.5  | 4703.9  | 4724.4  |
| 30°   | 11714.1 | 8656.5  | 4633.1  | 4191.2  | 4396.3  | 4607.0  | 4564.1  | 4562.2  | 4513.7  | 4459.7  | 4485.8  |
| 32.5° | 11425.1 | 7981.6  | 4168.8  | 3989.8  | 4224.8  | 4252.7  | 4345.9  | 4373.9  | 4278.8  | 4165.1  | 4157.6  |
| 35°   | 11173.4 | 7343.9  | 3816.5  | 3807.1  | 4017.8  | 4021.5  | 4157.6  | 4118.5  | 3881.7  | 3764.2  | 3764.2  |
| 37.5° | 10985.1 | 6708.2  | 3548.0  | 3643.1  | 3745.6  | 3842.6  | 3911.5  | 3749.3  | 3710.2  | 3644.9  | 3643.1  |
| 40°   | 10903.1 | 6148.8  | 3380.2  | 3518.1  | 3553.6  | 3676.6  | 3499.5  | 3562.9  | 3581.5  | 3548.0  | 3548.0  |
| 42.5° | 10817.3 | 5662.2  | 3234.8  | 3423.1  | 3417.5  | 3400.7  | 3311.2  | 3393.2  | 3467.8  | 3469.7  | 3464.1  |
| 45°   | 10731.6 | 5242.7  | 3106.1  | 3219.8  | 3298.1  | 3117.3  | 3134.1  | 3221.7  | 3326.1  | 3363.4  | 3363.4  |
| 47.5° | 10636.5 | 4910.9  | 2988.7  | 3005.4  | 3126.6  | 3005.4  | 2992.4  | 3059.5  | 3182.6  | 3242.2  | 3255.3  |
| 50°   | 10427.7 | 4612.6  | 2854.4  | 2817.1  | 2850.7  | 2891.7  | 2902.9  | 2934.6  | 3070.7  | 3165.8  | 3188.1  |
| 52.5° | 10138.7 | 4345.9  | 2682.9  | 2643.7  | 2643.7  | 2798.5  | 2850.7  | 2860.0  | 2975.6  | 3089.3  | 3111.7  |
| 55°   | 9898.2  | 4176.3  | 2505.8  | 2498.3  | 2490.9  | 2699.7  | 2789.2  | 2804.1  | 2884.2  | 2973.7  | 2984.9  |
| 57°   | 9914.9  | 4163.2  | 2369.7  | 2377.1  | 2375.3  | 2599.0  | 2731.4  | 2763.1  | 2804.1  | 2880.5  | 2893.6  |
| 57.5° | 9924.3  | 4172.6  | 2339.8  | 2343.6  | 2341.7  | 2571.0  | 2714.6  | 2750.0  | 2781.7  | 2861.9  | 2874.9  |
| 60°   | 10064.1 | 4196.8  | 2218.7  | 2177.6  | 2187.0  | 2421.9  | 2619.5  | 2664.2  | 2684.8  | 2791.0  | 2807.8  |
| 62.5° | 9857.2  | 4088.7  | 2121.7  | 2022.9  | 2022.9  | 2265.3  | 2487.1  | 2558.0  | 2589.7  | 2733.2  | 2761.2  |
| 65°   | 9256.8  | 3784.8  | 2008.0  | 1847.6  | 1866.3  | 2108.7  | 2328.7  | 2444.2  | 2492.7  | 2671.7  | 2701.5  |
| 67.5° | 8330.2  | 3432.4  | 1886.8  | 1691.0  | 1709.7  | 1944.6  | 2164.6  | 2289.5  | 2365.9  | 2604.6  | 2628.8  |
| 70°   | 7123.9  | 3001.7  | 1722.7  | 1525.1  | 1547.5  | 1765.6  | 1970.7  | 2112.4  | 2226.1  | 2541.2  | 2548.7  |
| 72.5° | 5252.1  | 2461.0  | 1493.4  | 1342.4  | 1366.6  | 1556.8  | 1774.9  | 1939.0  | 2091.9  | 2382.7  | 2379.0  |
| 75°   | 3122.9  | 1924.1  | 1239.8  | 1157.8  | 1174.6  | 1351.7  | 1597.8  | 1797.3  | 2026.6  | 2321.2  | 2356.6  |
| 77.5° | 1894.2  | 1448.6  | 1010.5  | 969.5   | 990.0   | 1170.9  | 1471.0  | 1683.6  | 1998.7  | 2188.8  | 2177.6  |
| 80°   | 1144.7  | 1034.7  | 807.3   | 781.2   | 801.7   | 1001.2  | 1361.0  | 1597.8  | 1747.0  | 1870.0  | 1870.0  |
| 82.5° | 598.5   | 632.0   | 592.9   | 572.4   | 600.3   | 812.9   | 1238.0  | 1394.6  | 1543.7  | 1325.6  | 1238.0  |
| 85°   | 244.2   | 330.0   | 359.8   | 358.0   | 374.7   | 563.1   | 1068.3  | 1193.2  | 995.6   | 945.3   | 967.6   |
| 87.5° | 82.0    | 139.8   | 175.3   | 151.0   | 158.5   | 354.2   | 740.2   | 576.1   | 684.2   | 477.3   | 453.1   |
| 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)