

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: P322803

Luminaire Tested: **GAN-SA9B-727-U-T4W-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P322803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 30967 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 374  
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

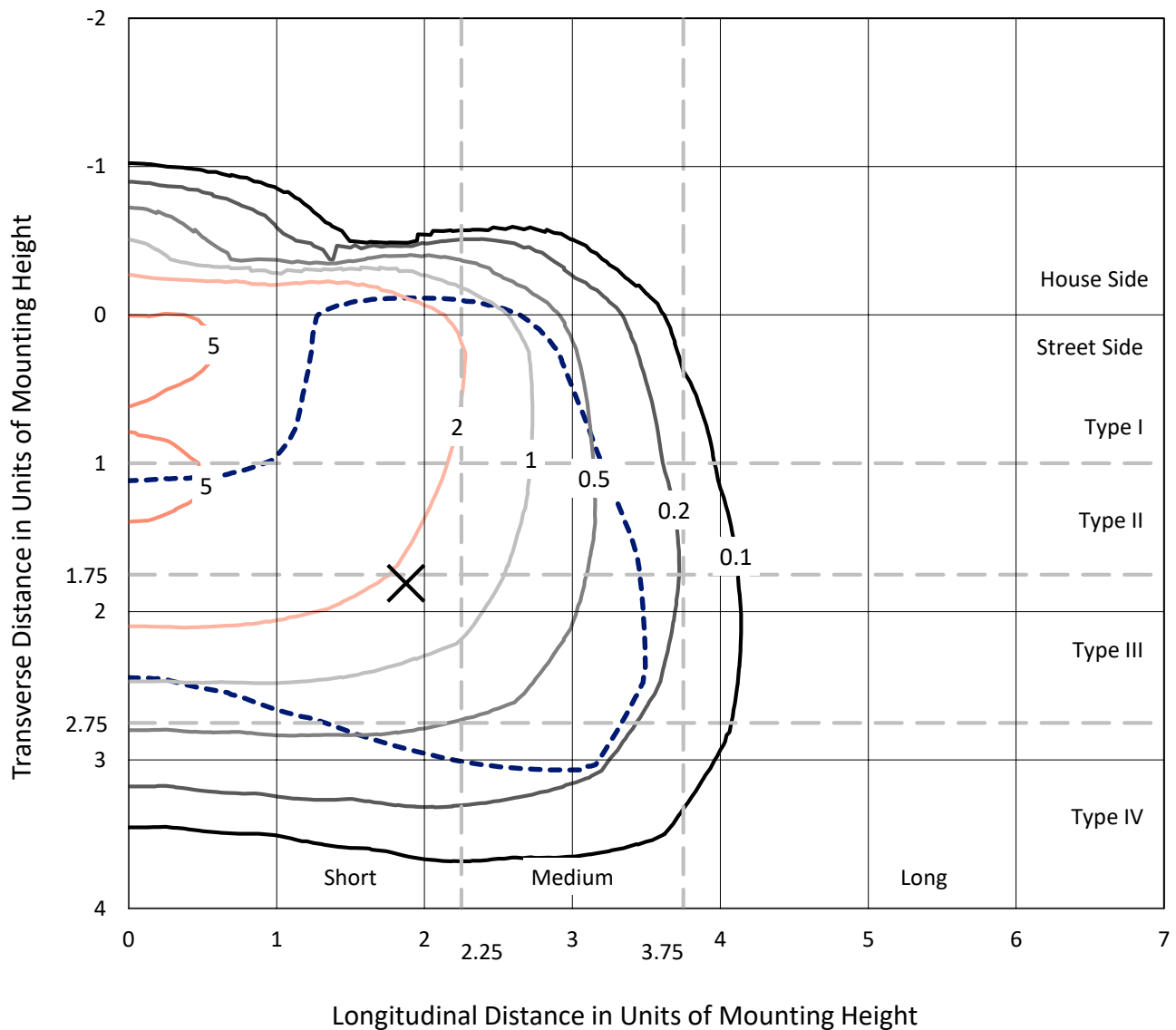


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## Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

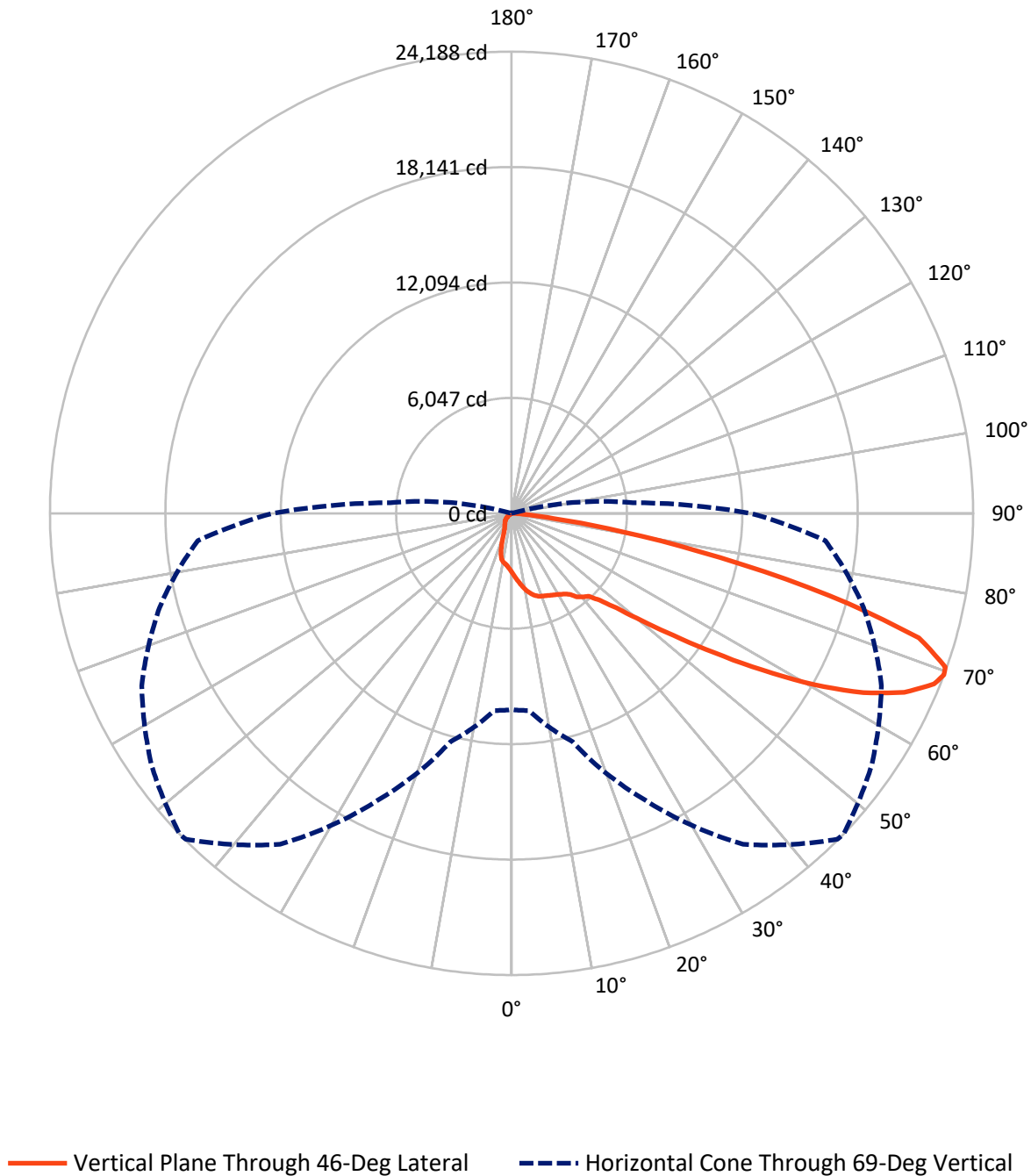


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - 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    | 3178.1   | 0.0    | 3178.1  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 27789.0  | 0.0    | 27789.0 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 30967.0  | 0.0    | 30967.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 308.8   | 1.0       |
| 10°-20°   | 936.9   | 3.0       |
| 20°-30°   | 1473.5  | 4.8       |
| 30°-40°   | 2113.0  | 6.8       |
| 40°-50°   | 3652.0  | 11.8      |
| 50°-60°   | 7214.9  | 23.3      |
| 60°-70°   | 10083.4 | 32.6      |
| 70°-80°   | 4871.4  | 15.7      |
| 80°-90°   | 313.1   | 1.0       |
| 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°    | 30967.0 | 100.0     |
| 0°-180°   | 30967.0 | 100.0     |

**Coefficient of Utilization**



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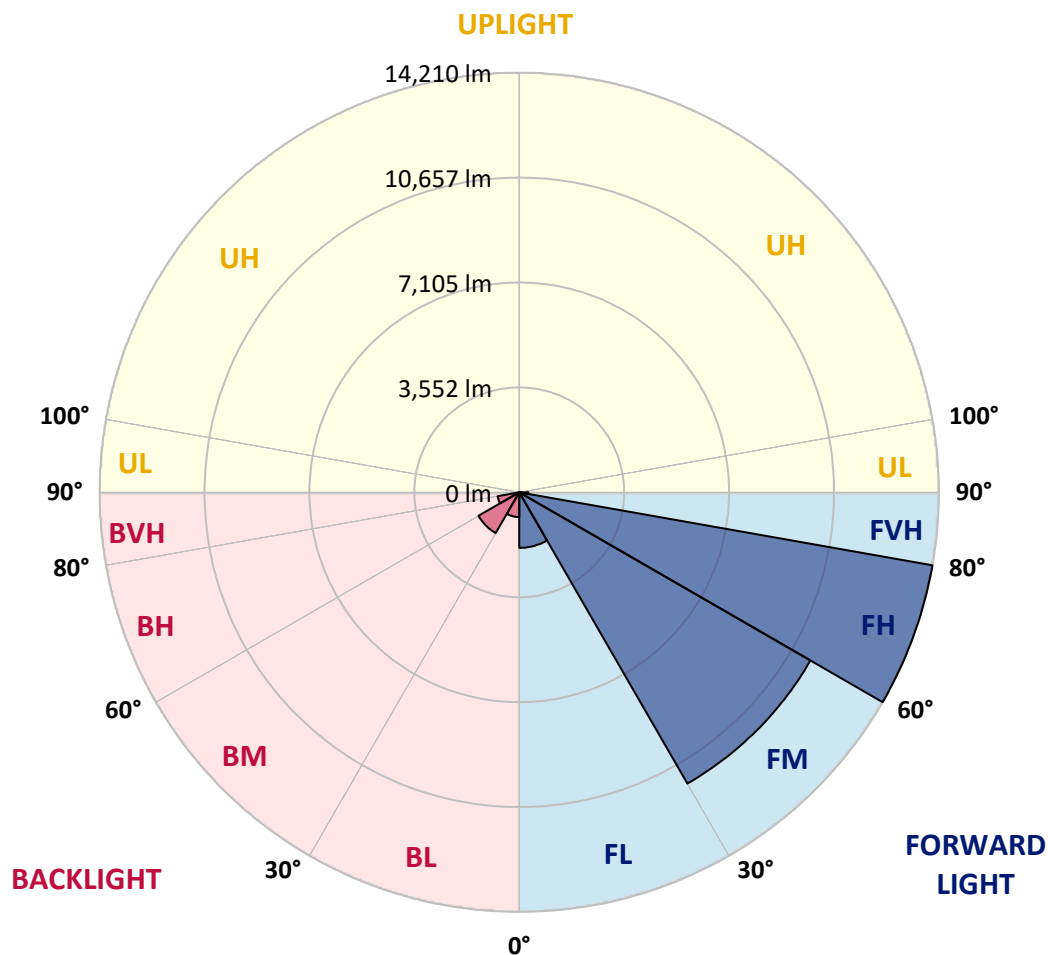
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1881.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 11387.3 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 14209.6 | 45.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 310.5   | 1.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 837.6   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1592.6  | 5.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 745.2   | 2.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 2.6     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  | 3102.8  |
| 2.5°  | 3446.9  | 3442.5  | 3422.2  | 3413.5  | 3364.1  | 3335.1  | 3323.5  | 3287.2  | 3234.9  | 3182.6  | 3124.6  |
| 5°    | 3838.9  | 3837.5  | 3799.7  | 3763.4  | 3670.5  | 3583.4  | 3567.4  | 3483.2  | 3365.6  | 3255.2  | 3144.9  |
| 7.5°  | 4239.6  | 4220.8  | 4183.0  | 4113.3  | 3978.3  | 3838.9  | 3825.8  | 3706.8  | 3539.8  | 3380.1  | 3221.8  |
| 10°   | 4579.4  | 4567.8  | 4518.4  | 4412.4  | 4254.2  | 4095.9  | 4079.9  | 3933.3  | 3744.5  | 3548.5  | 3346.7  |
| 12.5° | 4843.6  | 4834.9  | 4769.6  | 4637.5  | 4469.0  | 4305.0  | 4283.2  | 4152.5  | 3950.7  | 3731.5  | 3493.3  |
| 15°   | 5004.8  | 5000.5  | 4920.6  | 4779.8  | 4614.2  | 4471.9  | 4453.1  | 4338.4  | 4151.1  | 3921.7  | 3653.1  |
| 17.5° | 5042.6  | 5044.0  | 4961.2  | 4819.0  | 4682.5  | 4580.8  | 4566.3  | 4479.2  | 4322.4  | 4094.4  | 3812.8  |
| 20°   | 4958.3  | 4975.8  | 4901.7  | 4778.3  | 4694.1  | 4640.4  | 4628.8  | 4576.5  | 4444.4  | 4229.5  | 3940.5  |
| 22.5° | 4839.3  | 4848.0  | 4797.2  | 4714.4  | 4679.6  | 4689.7  | 4683.9  | 4654.9  | 4543.1  | 4345.6  | 4066.9  |
| 25°   | 4766.7  | 4766.7  | 4736.2  | 4666.5  | 4689.7  | 4752.2  | 4753.6  | 4747.8  | 4659.2  | 4487.9  | 4220.8  |
| 27.5° | 4763.8  | 4755.1  | 4720.2  | 4668.0  | 4731.8  | 4827.7  | 4833.5  | 4872.7  | 4817.5  | 4660.7  | 4412.4  |
| 30°   | 4879.9  | 4869.8  | 4795.7  | 4727.5  | 4808.8  | 4911.9  | 4926.4  | 5012.1  | 4984.5  | 4848.0  | 4625.9  |
| 32.5° | 5151.5  | 5115.2  | 4951.1  | 4839.3  | 4900.3  | 5023.7  | 5042.6  | 5179.0  | 5222.6  | 5078.9  | 4832.0  |
| 35°   | 5523.1  | 5408.4  | 5171.8  | 5051.3  | 5057.1  | 5186.3  | 5203.7  | 5404.1  | 5533.3  | 5290.8  | 4991.7  |
| 37.5° | 6035.7  | 5979.1  | 5594.3  | 5272.0  | 5298.1  | 5494.1  | 5544.9  | 5762.7  | 5726.4  | 5407.0  | 5173.2  |
| 40°   | 7159.5  | 7070.9  | 6661.5  | 5890.5  | 5529.0  | 5743.8  | 5759.8  | 5876.0  | 5878.9  | 5669.8  | 5550.7  |
| 42.5° | 8689.8  | 8653.5  | 8222.3  | 7012.8  | 5983.4  | 5910.8  | 5939.9  | 6135.9  | 6355.1  | 6224.4  | 6218.6  |
| 45°   | 10384.2 | 10365.3 | 9908.0  | 8502.5  | 6902.5  | 6458.2  | 6494.5  | 6757.3  | 7176.9  | 7205.9  | 7390.3  |
| 47.5° | 11747.6 | 11738.9 | 11476.1 | 10165.0 | 8309.4  | 7386.0  | 7397.6  | 7676.4  | 8413.9  | 8778.4  | 9073.1  |
| 50°   | 12990.4 | 13032.5 | 12824.9 | 11963.9 | 10226.0 | 8839.4  | 8811.8  | 8997.6  | 10182.4 | 10779.1 | 11145.0 |
| 52.5° | 14718.2 | 14777.8 | 14195.5 | 13642.3 | 12236.9 | 10642.7 | 10620.9 | 10815.4 | 12308.0 | 12755.2 | 12820.6 |
| 55°   | 16244.2 | 16142.6 | 15682.3 | 15522.6 | 14689.2 | 12869.9 | 12864.1 | 13035.4 | 14364.0 | 14554.2 | 14674.7 |
| 57.5° | 16917.9 | 16878.7 | 17100.8 | 17466.7 | 17257.7 | 15502.3 | 15489.2 | 15358.5 | 16203.6 | 16223.9 | 16594.1 |
| 60°   | 17343.3 | 17391.2 | 18072.2 | 19200.3 | 19721.6 | 18335.0 | 18250.8 | 17453.7 | 17960.4 | 17915.4 | 18311.8 |
| 62.5° | 17023.9 | 17118.3 | 18343.7 | 20224.0 | 21565.5 | 20807.6 | 20688.6 | 19373.1 | 19461.7 | 19306.3 | 19675.1 |
| 65°   | 15328.0 | 15474.7 | 17482.7 | 20030.8 | 22480.3 | 22740.2 | 22619.6 | 21067.5 | 20653.7 | 20398.2 | 20193.5 |
| 67.5° | 12446.0 | 12533.1 | 14629.7 | 18351.0 | 22067.9 | 23893.0 | 23868.3 | 22552.9 | 21553.9 | 20213.8 | 18625.4 |
| 69°   | 10285.5 | 10371.1 | 12389.3 | 16582.5 | 21160.4 | 24139.8 | 24187.7 | 23029.1 | 21382.6 | 19092.9 | 16502.7 |
| 70°   | 8711.6  | 8803.1  | 10683.3 | 15066.7 | 20107.8 | 24025.1 | 24110.8 | 22984.1 | 20891.8 | 17794.9 | 14639.8 |
| 72.5° | 4569.2  | 4647.6  | 6577.2  | 10379.9 | 16392.3 | 22060.6 | 22320.5 | 21041.4 | 17709.2 | 12923.6 | 8656.4  |
| 75°   | 1436.0  | 1481.0  | 2568.5  | 5425.9  | 11223.4 | 17153.1 | 17212.6 | 16505.6 | 12575.2 | 7108.7  | 3605.1  |
| 77.5° | 547.4   | 534.3   | 855.2   | 1999.3  | 5674.1  | 10800.9 | 11165.4 | 10314.5 | 6599.0  | 2513.3  | 832.0   |
| 80°   | 294.7   | 296.2   | 444.3   | 827.6   | 2427.6  | 5550.7  | 5858.5  | 4999.0  | 2344.9  | 784.0   | 191.7   |
| 82.5° | 127.8   | 133.6   | 249.7   | 438.5   | 1115.1  | 2047.2  | 2201.1  | 1832.3  | 895.8   | 527.1   | 71.1    |
| 85°   | 27.6    | 30.5    | 120.5   | 238.1   | 454.5   | 575.0   | 602.6   | 593.8   | 570.6   | 409.4   | 27.6    |
| 87.5° | 0.0     | 0.0     | 53.7    | 85.7    | 114.7   | 130.7   | 114.7   | 149.5   | 315.1   | 275.9   | 14.5    |
| 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°    | 3102.8  | 3102.8  | 3102.8 | 3102.8 | 3102.8 | 3102.8 | 3102.8 | 3102.8 | 3102.8 | 3102.8 | 3102.8 |
| 2.5°  | 3105.7  | 3079.5  | 3034.5 | 2985.2 | 2950.3 | 2914.0 | 2885.0 | 2871.9 | 2857.4 | 2847.2 | 2860.3 |
| 5°    | 3099.9  | 3049.1  | 2961.9 | 2877.7 | 2816.7 | 2767.4 | 2726.7 | 2710.8 | 2694.8 | 2683.2 | 2681.7 |
| 7.5°  | 3150.7  | 3079.5  | 2946.0 | 2822.6 | 2728.2 | 2661.4 | 2606.2 | 2583.0 | 2564.1 | 2555.4 | 2548.1 |
| 10°   | 3248.0  | 3156.5  | 2977.9 | 2816.7 | 2694.8 | 2581.5 | 2462.5 | 2371.0 | 2311.5 | 2283.9 | 2273.7 |
| 12.5° | 3374.3  | 3259.6  | 3038.9 | 2847.2 | 2670.1 | 2452.3 | 2199.7 | 1981.9 | 1841.0 | 1794.6 | 1767.0 |
| 15°   | 3522.4  | 3380.1  | 3118.7 | 2886.4 | 2580.1 | 2182.3 | 1753.9 | 1469.4 | 1338.7 | 1312.5 | 1283.5 |
| 17.5° | 3664.7  | 3507.9  | 3214.6 | 2893.7 | 2382.6 | 1743.8 | 1285.0 | 1091.9 | 1041.0 | 1058.5 | 1062.8 |
| 20°   | 3789.5  | 3634.2  | 3309.0 | 2829.8 | 2024.0 | 1308.2 | 994.6  | 946.7  | 965.5  | 998.9  | 1004.7 |
| 22.5° | 3915.9  | 3756.1  | 3396.1 | 2661.4 | 1565.2 | 993.1  | 895.8  | 907.5  | 926.3  | 959.7  | 965.5  |
| 25°   | 4069.8  | 3904.2  | 3477.4 | 2352.1 | 1174.6 | 845.0  | 850.8  | 868.3  | 887.1  | 917.6  | 920.5  |
| 27.5° | 4246.9  | 4091.5  | 3531.1 | 1949.9 | 871.2  | 776.8  | 795.7  | 821.8  | 840.7  | 869.7  | 875.5  |
| 30°   | 4482.1  | 4338.4  | 3548.5 | 1533.2 | 730.3  | 715.8  | 724.5  | 756.5  | 784.0  | 810.2  | 814.5  |
| 32.5° | 4702.8  | 4582.3  | 3490.4 | 1157.2 | 676.6  | 659.2  | 659.2  | 678.1  | 710.0  | 734.7  | 740.5  |
| 35°   | 4906.1  | 4827.7  | 3304.6 | 846.5  | 635.9  | 606.9  | 592.4  | 592.4  | 612.7  | 633.0  | 638.8  |
| 37.5° | 5174.7  | 5171.8  | 3004.0 | 675.1  | 596.7  | 563.3  | 532.9  | 509.6  | 502.4  | 506.7  | 509.6  |
| 40°   | 5634.9  | 5639.3  | 2612.0 | 605.5  | 563.3  | 518.3  | 471.9  | 429.8  | 390.6  | 377.5  | 376.1  |
| 42.5° | 6353.7  | 6288.3  | 2201.1 | 572.1  | 534.3  | 471.9  | 402.2  | 345.6  | 284.6  | 265.7  | 264.3  |
| 45°   | 7494.9  | 7107.2  | 1765.5 | 541.6  | 503.8  | 419.6  | 332.5  | 255.5  | 206.2  | 191.7  | 191.7  |
| 47.5° | 9157.3  | 8183.1  | 1367.7 | 508.2  | 463.2  | 360.1  | 251.2  | 184.4  | 151.0  | 143.7  | 145.2  |
| 50°   | 10876.4 | 9237.2  | 1048.3 | 466.1  | 413.8  | 297.6  | 185.8  | 133.6  | 114.7  | 114.7  | 116.2  |
| 52.5° | 12400.9 | 10009.6 | 817.4  | 421.1  | 352.8  | 233.8  | 140.8  | 104.5  | 95.8   | 94.4   | 95.8   |
| 55°   | 13828.2 | 10507.6 | 625.8  | 368.8  | 280.2  | 174.2  | 107.4  | 85.7   | 79.9   | 77.0   | 75.5   |
| 57.5° | 15204.6 | 10754.5 | 469.0  | 297.6  | 203.3  | 126.3  | 85.7   | 72.6   | 66.8   | 62.4   | 61.0   |
| 60°   | 16120.8 | 10554.1 | 322.3  | 219.2  | 140.8  | 91.5   | 71.1   | 62.4   | 55.2   | 50.8   | 49.4   |
| 62.5° | 16637.7 | 10006.7 | 207.6  | 158.3  | 100.2  | 68.2   | 56.6   | 52.3   | 42.1   | 37.8   | 37.8   |
| 65°   | 16428.6 | 9103.6  | 145.2  | 113.3  | 72.6   | 50.8   | 42.1   | 42.1   | 30.5   | 24.7   | 23.2   |
| 67.5° | 14558.5 | 7690.9  | 110.3  | 84.2   | 52.3   | 37.8   | 31.9   | 36.3   | 18.9   | 11.6   | 11.6   |
| 69°   | 12525.8 | 6374.0  | 94.4   | 69.7   | 43.6   | 30.5   | 27.6   | 33.4   | 13.1   | 8.7    | 7.3    |
| 70°   | 10886.6 | 5498.5  | 85.7   | 61.0   | 36.3   | 26.1   | 24.7   | 31.9   | 13.1   | 7.3    | 5.8    |
| 72.5° | 6513.4  | 3066.5  | 65.3   | 43.6   | 23.2   | 20.3   | 20.3   | 36.3   | 13.1   | 7.3    | 5.8    |
| 75°   | 2632.4  | 1080.2  | 47.9   | 30.5   | 17.4   | 17.4   | 24.7   | 46.5   | 11.6   | 5.8    | 4.4    |
| 77.5° | 596.7   | 236.7   | 27.6   | 18.9   | 11.6   | 17.4   | 29.0   | 36.3   | 7.3    | 2.9    | 0.0    |
| 80°   | 145.2   | 58.1    | 17.4   | 11.6   | 7.3    | 13.1   | 21.8   | 20.3   | 1.5    | 0.0    | 0.0    |
| 82.5° | 47.9    | 20.3    | 7.3    | 5.8    | 1.5    | 4.4    | 10.2   | 5.8    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.3    | 11.6    | 2.9    | 1.5    | 0.0    | 0.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.1    | 4.4     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)