

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: LUMARK

Report Number: P395126

Luminaire Tested: **LAS100S-T4-Switch-2**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS100S-T4-Switch-2  
Description: AREA SITE LARGE HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 2  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27900 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

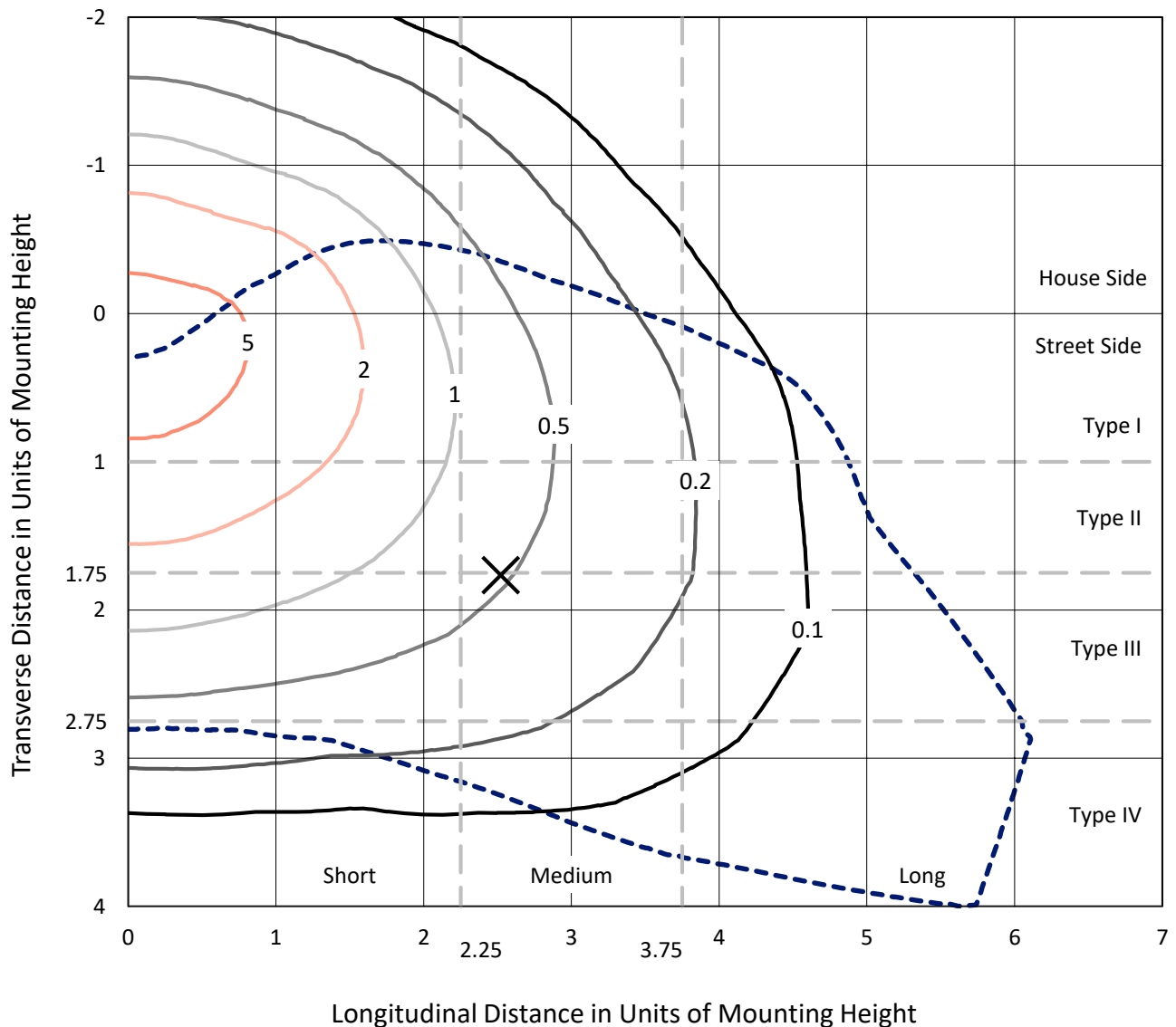
Input Watts (W): 196.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

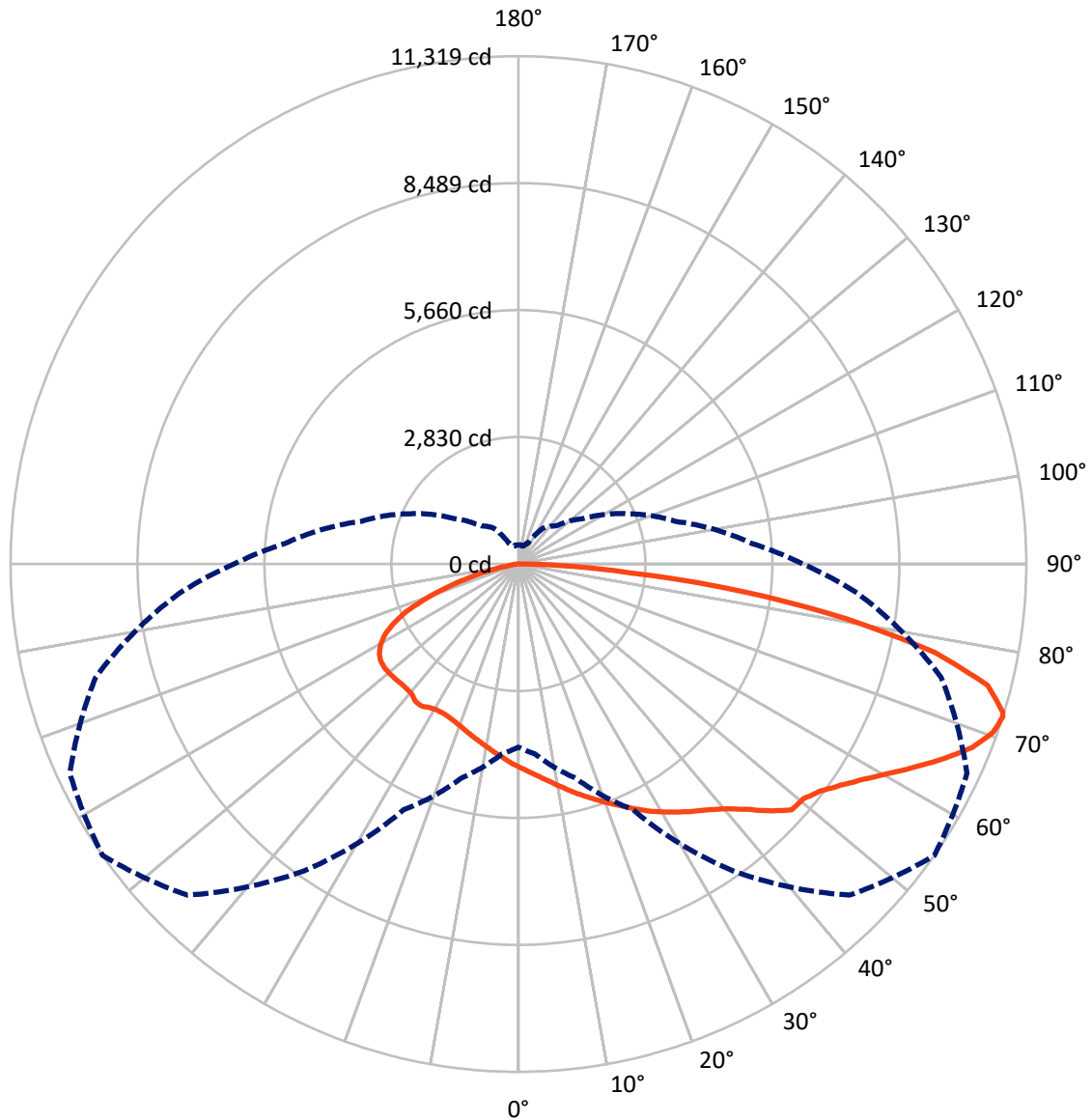
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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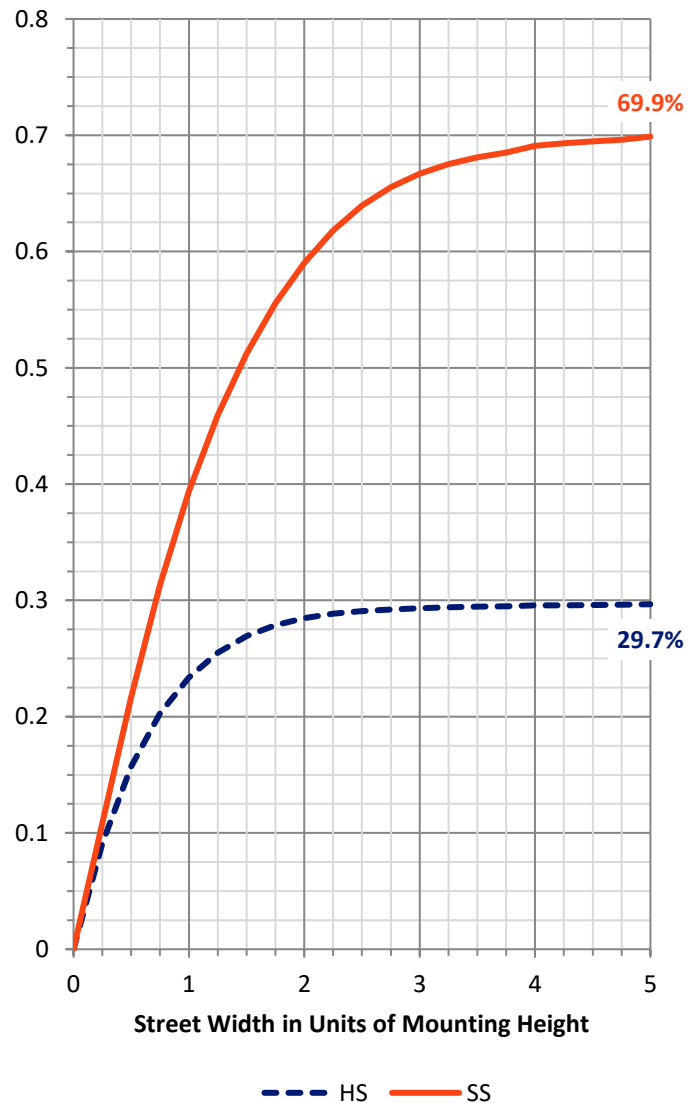
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8329.0   | 0.0    | 8329.0  |
|                    | % Fixture | 29.9     | 0.0    | 29.9    |
| <b>Street Side</b> | Lumens    | 19571.0  | 0.0    | 19571.0 |
|                    | % Fixture | 70.1     | 0.0    | 70.1    |
| <b>Total</b>       | Lumens    | 27900.0  | 0.0    | 27900.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 434.2   | 1.6       |
| 10°-20°   | 1319.3  | 4.7       |
| 20°-30°   | 2255.9  | 8.1       |
| 30°-40°   | 3269.6  | 11.7      |
| 40°-50°   | 4386.4  | 15.7      |
| 50°-60°   | 5376.4  | 19.3      |
| 60°-70°   | 6011.0  | 21.5      |
| 70°-80°   | 4119.2  | 14.8      |
| 80°-90°   | 727.8   | 2.6       |
| 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°    | 27900.0 | 100.0     |
| 0°-180°   | 27900.0 | 100.0     |



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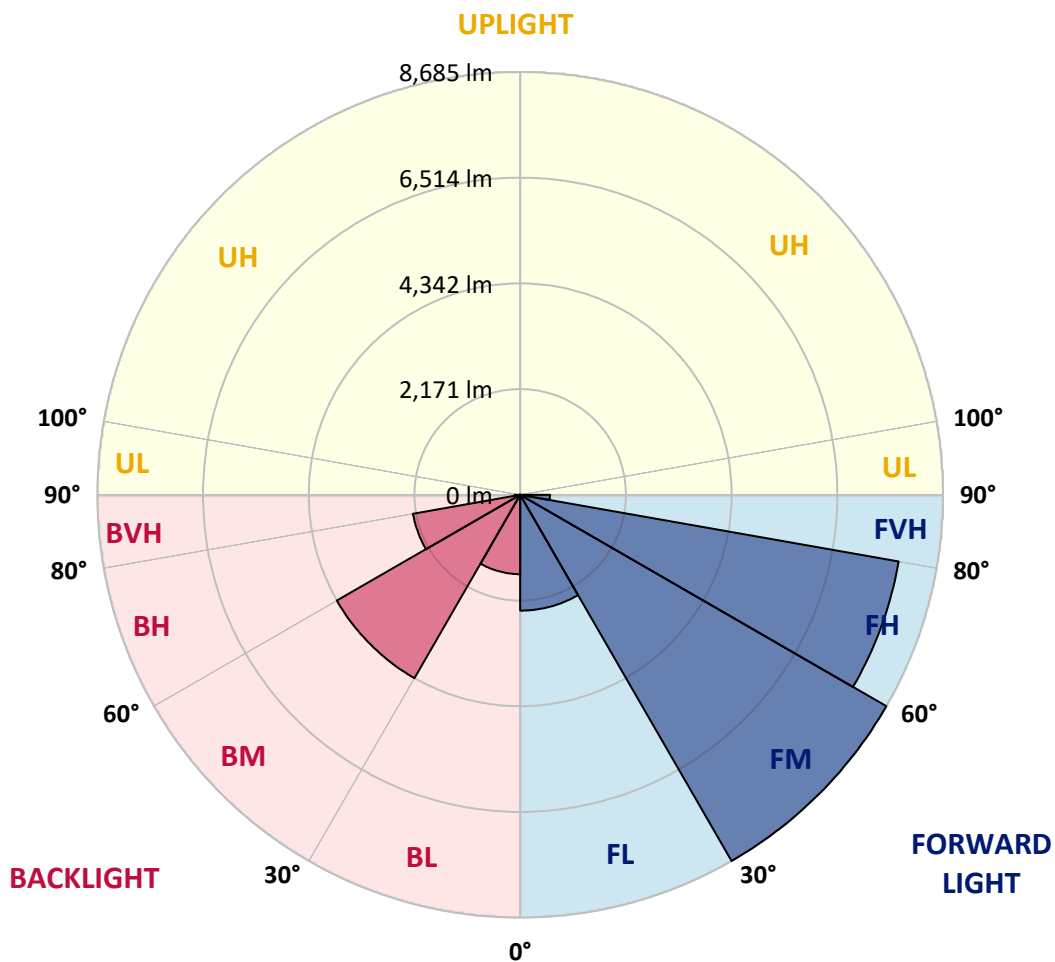
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2378.9 | 8.5       |                         |      |          |
| FM   | (30°-60°)   | 8684.8 | 31.1      |                         |      |          |
| FH   | (60°-80°)   | 7894.3 | 28.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 613.0  | 2.2       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1630.5 | 5.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4347.7 | 15.6      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2236.0 | 8.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 114.8  | 0.4       |                         |      | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5  | 4534.5  | 4534.5  | 4534.5 | 4534.5 | 4534.5 |
| 2.5°  | 4706.0 | 4688.1 | 4688.9 | 4682.4 | 4664.4 | 4648.1  | 4636.6  | 4606.4  | 4583.5 | 4558.2 | 4541.1 |
| 5°    | 4893.1 | 4875.1 | 4861.2 | 4846.5 | 4825.3 | 4793.4  | 4753.4  | 4703.6  | 4649.7 | 4594.1 | 4560.7 |
| 7.5°  | 5075.2 | 5058.9 | 5042.5 | 5020.5 | 4990.3 | 4942.9  | 4884.1  | 4812.2  | 4730.5 | 4644.8 | 4596.6 |
| 10°   | 5246.7 | 5238.6 | 5224.7 | 5194.5 | 5156.9 | 5103.8  | 5033.6  | 4942.9  | 4832.6 | 4717.5 | 4648.1 |
| 12.5° | 5406.8 | 5411.7 | 5400.3 | 5375.0 | 5333.3 | 5268.0  | 5190.4  | 5080.9  | 4952.7 | 4795.9 | 4713.4 |
| 15°   | 5576.7 | 5562.0 | 5557.1 | 5537.5 | 5506.4 | 5441.1  | 5352.1  | 5224.7  | 5084.2 | 4902.1 | 4795.9 |
| 17.5° | 5732.7 | 5715.5 | 5710.6 | 5691.0 | 5647.7 | 5597.9  | 5513.0  | 5379.0  | 5221.4 | 5010.7 | 4898.0 |
| 20°   | 5866.6 | 5863.4 | 5851.9 | 5842.9 | 5804.6 | 5749.8  | 5678.8  | 5554.6  | 5379.9 | 5155.2 | 5013.1 |
| 22.5° | 6014.5 | 5996.5 | 6001.4 | 5976.1 | 5951.6 | 5919.7  | 5858.5  | 5740.8  | 5549.7 | 5299.0 | 5145.4 |
| 25°   | 6134.5 | 6124.7 | 6121.4 | 6110.0 | 6101.8 | 6092.0  | 6045.5  | 5940.1  | 5730.2 | 5468.1 | 5292.5 |
| 27.5° | 6225.2 | 6218.6 | 6240.7 | 6239.1 | 6269.3 | 6270.1  | 6238.2  | 6125.5  | 5928.7 | 5634.7 | 5446.8 |
| 30°   | 6316.6 | 6315.0 | 6354.2 | 6379.5 | 6412.2 | 6440.8  | 6413.8  | 6318.3  | 6110.8 | 5819.3 | 5621.6 |
| 32.5° | 6426.1 | 6421.2 | 6466.1 | 6506.9 | 6556.0 | 6605.0  | 6589.4  | 6502.9  | 6311.7 | 6007.9 | 5796.4 |
| 35°   | 6536.4 | 6539.6 | 6588.6 | 6631.9 | 6703.0 | 6766.7  | 6765.9  | 6703.0  | 6521.6 | 6220.3 | 5993.2 |
| 37.5° | 6664.6 | 6671.1 | 6704.6 | 6765.0 | 6850.8 | 6916.1  | 6944.7  | 6897.3  | 6737.3 | 6455.5 | 6233.3 |
| 40°   | 6974.9 | 6957.8 | 7036.2 | 7062.3 | 7104.8 | 7132.6  | 7167.7  | 7133.4  | 7001.1 | 6718.5 | 6511.8 |
| 42.5° | 7290.2 | 7324.5 | 7418.4 | 7420.1 | 7459.3 | 7472.3  | 7474.0  | 7421.7  | 7286.9 | 7022.3 | 6772.4 |
| 45°   | 7260.0 | 7295.9 | 7437.2 | 7529.5 | 7722.3 | 7838.2  | 7846.4  | 7772.9  | 7626.7 | 7230.6 | 6876.9 |
| 47.5° | 7263.2 | 7304.9 | 7425.0 | 7462.5 | 7706.7 | 8012.2  | 8194.3  | 8164.9  | 7929.7 | 7370.2 | 7015.8 |
| 50°   | 7362.9 | 7412.7 | 7527.1 | 7480.5 | 7649.6 | 7949.3  | 8226.2  | 8307.0  | 8027.7 | 7536.9 | 7193.0 |
| 52.5° | 7527.1 | 7569.5 | 7695.3 | 7622.6 | 7741.0 | 8054.7  | 8412.4  | 8520.2  | 8269.5 | 7753.3 | 7374.3 |
| 55°   | 7704.3 | 7758.2 | 7870.1 | 7840.7 | 7960.7 | 8313.6  | 8708.1  | 8833.0  | 8568.4 | 7965.6 | 7530.3 |
| 57.5° | 7916.6 | 7942.0 | 8090.6 | 8110.2 | 8258.0 | 8639.5  | 9056.8  | 9167.9  | 8855.9 | 8140.4 | 7649.6 |
| 60°   | 8041.6 | 8067.7 | 8258.0 | 8373.2 | 8634.5 | 9066.6  | 9479.9  | 9567.3  | 9154.0 | 8277.6 | 7723.9 |
| 62.5° | 8213.1 | 8236.0 | 8374.8 | 8592.1 | 9045.4 | 9545.2  | 9948.7  | 9978.9  | 9448.0 | 8384.6 | 7721.4 |
| 65°   | 8273.6 | 8274.4 | 8424.6 | 8775.0 | 9377.8 | 10043.4 | 10441.2 | 10377.5 | 9718.4 | 8387.9 | 7598.1 |
| 67.5° | 7476.4 | 7567.9 | 7841.5 | 8637.8 | 9594.2 | 10476.3 | 10907.5 | 10744.2 | 9886.6 | 8260.5 | 7313.9 |
| 70°   | 6016.1 | 5986.7 | 6399.1 | 7585.0 | 9292.0 | 10657.6 | 11227.7 | 10974.5 | 9885.8 | 7964.8 | 6827.1 |
| 72°   | 4082.1 | 4251.1 | 4942.9 | 6041.4 | 8351.1 | 10435.5 | 11319.2 | 11031.7 | 9755.1 | 7601.4 | 6335.4 |
| 72.5° | 3679.4 | 3808.4 | 4358.9 | 5624.1 | 8112.7 | 10316.2 | 11289.8 | 11021.1 | 9699.6 | 7463.3 | 6180.3 |
| 75°   | 1209.6 | 1368.9 | 1949.6 | 3235.1 | 6028.3 | 9061.7  | 10800.5 | 10785.8 | 9137.7 | 6695.6 | 5321.9 |
| 77.5° | 477.0  | 485.1  | 541.5  | 1239.0 | 3605.1 | 7158.7  | 9494.6  | 9804.9  | 7540.9 | 5519.5 | 4202.1 |
| 80°   | 346.3  | 338.1  | 349.6  | 450.0  | 1429.3 | 4722.4  | 7423.3  | 7696.1  | 4488.0 | 3712.1 | 2938.6 |
| 82.5° | 238.5  | 235.2  | 240.1  | 285.9  | 593.8  | 2592.3  | 5058.1  | 4447.1  | 1607.3 | 1658.8 | 1675.1 |
| 85°   | 133.1  | 135.6  | 133.9  | 161.7  | 314.4  | 1139.3  | 2493.5  | 1769.9  | 249.1  | 298.9  | 695.0  |
| 87.5° | 49.8   | 50.6   | 52.3   | 58.8   | 109.4  | 316.9   | 900.9   | 288.3   | 42.5   | 42.5   | 110.3  |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 | 4534.5 |
| 2.5°  | 4529.6 | 4498.6 | 4463.5 | 4440.6 | 4409.6 | 4394.0 | 4373.6 | 4373.6 | 4364.6 | 4357.3 |
| 5°    | 4531.3 | 4461.8 | 4392.4 | 4331.2 | 4283.0 | 4236.4 | 4198.0 | 4170.3 | 4166.2 | 4157.2 |
| 7.5°  | 4545.1 | 4441.4 | 4332.8 | 4238.1 | 4155.6 | 4081.2 | 4020.0 | 3985.7 | 3963.6 | 3948.1 |
| 10°   | 4575.4 | 4433.3 | 4284.6 | 4144.1 | 4024.1 | 3928.5 | 3850.1 | 3809.3 | 3784.8 | 3779.0 |
| 12.5° | 4623.6 | 4432.4 | 4238.9 | 4061.6 | 3908.1 | 3793.7 | 3712.1 | 3658.2 | 3639.4 | 3625.5 |
| 15°   | 4680.7 | 4443.9 | 4203.7 | 3983.2 | 3801.9 | 3667.2 | 3583.0 | 3527.5 | 3499.7 | 3494.0 |
| 17.5° | 4759.1 | 4472.5 | 4176.0 | 3909.7 | 3701.5 | 3552.0 | 3463.0 | 3406.6 | 3381.3 | 3377.2 |
| 20°   | 4856.3 | 4511.7 | 4158.0 | 3844.4 | 3614.1 | 3455.6 | 3351.1 | 3291.5 | 3270.2 | 3270.2 |
| 22.5° | 4968.2 | 4566.4 | 4150.7 | 3787.2 | 3532.4 | 3363.3 | 3254.7 | 3200.0 | 3186.9 | 3182.0 |
| 25°   | 5089.1 | 4643.2 | 4162.9 | 3746.4 | 3458.1 | 3281.7 | 3173.8 | 3116.7 | 3093.8 | 3090.5 |
| 27.5° | 5229.6 | 4734.6 | 4194.8 | 3723.5 | 3403.3 | 3204.1 | 3098.7 | 3030.1 | 3009.7 | 2999.9 |
| 30°   | 5384.8 | 4844.9 | 4251.1 | 3728.4 | 3373.9 | 3146.9 | 3012.9 | 2952.5 | 2922.3 | 2910.9 |
| 32.5° | 5558.7 | 4982.1 | 4343.4 | 3768.4 | 3370.7 | 3102.8 | 2944.3 | 2861.8 | 2829.2 | 2826.7 |
| 35°   | 5750.6 | 5154.4 | 4482.3 | 3837.0 | 3369.0 | 3047.2 | 2864.3 | 2778.5 | 2758.9 | 2759.8 |
| 37.5° | 5999.8 | 5379.0 | 4608.0 | 3824.0 | 3262.9 | 2938.6 | 2773.6 | 2717.3 | 2700.1 | 2697.7 |
| 40°   | 6255.4 | 5511.3 | 4572.9 | 3743.9 | 3174.7 | 2848.8 | 2705.9 | 2661.7 | 2653.6 | 2648.7 |
| 42.5° | 6402.4 | 5517.9 | 4591.7 | 3729.2 | 3123.2 | 2797.3 | 2655.2 | 2613.6 | 2600.5 | 2596.4 |
| 45°   | 6480.0 | 5616.7 | 4676.6 | 3734.9 | 3089.7 | 2756.5 | 2606.2 | 2562.1 | 2539.2 | 2534.3 |
| 47.5° | 6632.7 | 5744.1 | 4764.8 | 3751.3 | 3069.3 | 2701.8 | 2553.1 | 2503.3 | 2479.6 | 2480.4 |
| 50°   | 6793.6 | 5862.5 | 4835.1 | 3768.4 | 3045.6 | 2653.6 | 2496.8 | 2438.8 | 2421.6 | 2415.1 |
| 52.5° | 6935.7 | 5954.8 | 4867.8 | 3773.3 | 3016.2 | 2603.8 | 2429.0 | 2363.6 | 2342.4 | 2337.5 |
| 55°   | 7042.7 | 5998.9 | 4851.4 | 3760.3 | 2974.6 | 2538.4 | 2349.8 | 2271.3 | 2245.2 | 2240.3 |
| 57.5° | 7106.4 | 5976.9 | 4764.8 | 3695.7 | 2906.8 | 2457.6 | 2246.8 | 2146.4 | 2112.1 | 2107.2 |
| 60°   | 7097.4 | 5851.9 | 4583.5 | 3566.7 | 2798.1 | 2326.9 | 2076.1 | 1961.0 | 1916.1 | 1908.7 |
| 62.5° | 6992.9 | 5617.5 | 4340.1 | 3382.1 | 2625.0 | 2108.8 | 1854.8 | 1715.1 | 1644.9 | 1622.9 |
| 65°   | 6769.9 | 5271.2 | 4034.7 | 3079.9 | 2322.8 | 1819.7 | 1562.4 | 1396.6 | 1208.0 | 1163.9 |
| 67.5° | 6389.3 | 4795.9 | 3616.5 | 2723.0 | 1951.2 | 1524.0 | 1283.1 | 881.3  | 689.3  | 646.0  |
| 70°   | 5784.1 | 4149.8 | 3101.2 | 2201.9 | 1512.6 | 1211.2 | 869.0  | 488.4  | 476.2  | 477.8  |
| 72°   | 5224.7 | 3650.8 | 2650.3 | 1766.6 | 1206.3 | 984.2  | 521.1  | 413.3  | 427.2  | 421.4  |
| 72.5° | 5059.7 | 3510.3 | 2554.8 | 1648.2 | 1131.2 | 931.9  | 463.9  | 400.2  | 408.4  | 414.9  |
| 75°   | 4261.7 | 2741.8 | 1838.5 | 1129.5 | 838.8  | 623.2  | 344.7  | 340.6  | 351.2  | 353.6  |
| 77.5° | 3228.6 | 1954.5 | 1180.2 | 716.3  | 558.6  | 355.3  | 276.1  | 276.1  | 286.7  | 288.3  |
| 80°   | 2122.7 | 1205.5 | 491.7  | 283.4  | 351.2  | 234.4  | 204.2  | 209.1  | 221.3  | 226.2  |
| 82.5° | 1342.7 | 650.1  | 147.0  | 148.6  | 178.9  | 153.5  | 138.0  | 143.7  | 154.4  | 155.2  |
| 85°   | 654.2  | 133.1  | 79.2   | 80.9   | 82.5   | 83.3   | 71.9   | 76.8   | 79.2   | 76.8   |
| 87.5° | 160.9  | 33.5   | 30.2   | 32.7   | 26.1   | 22.1   | 22.1   | 18.8   | 13.1   | 13.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)