

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: P458971

Luminaire Tested: **GLAN-SA4D-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22320 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

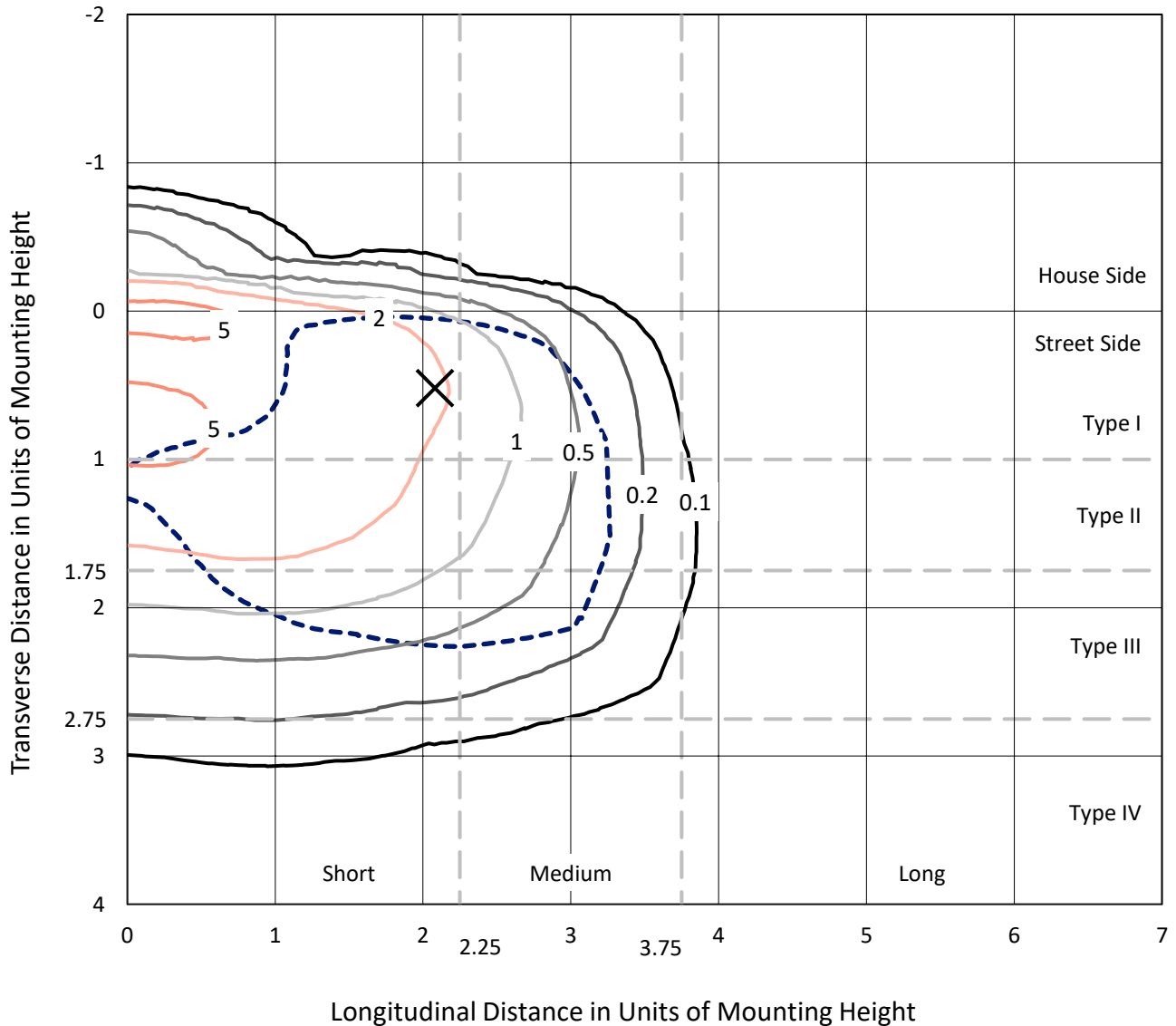
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

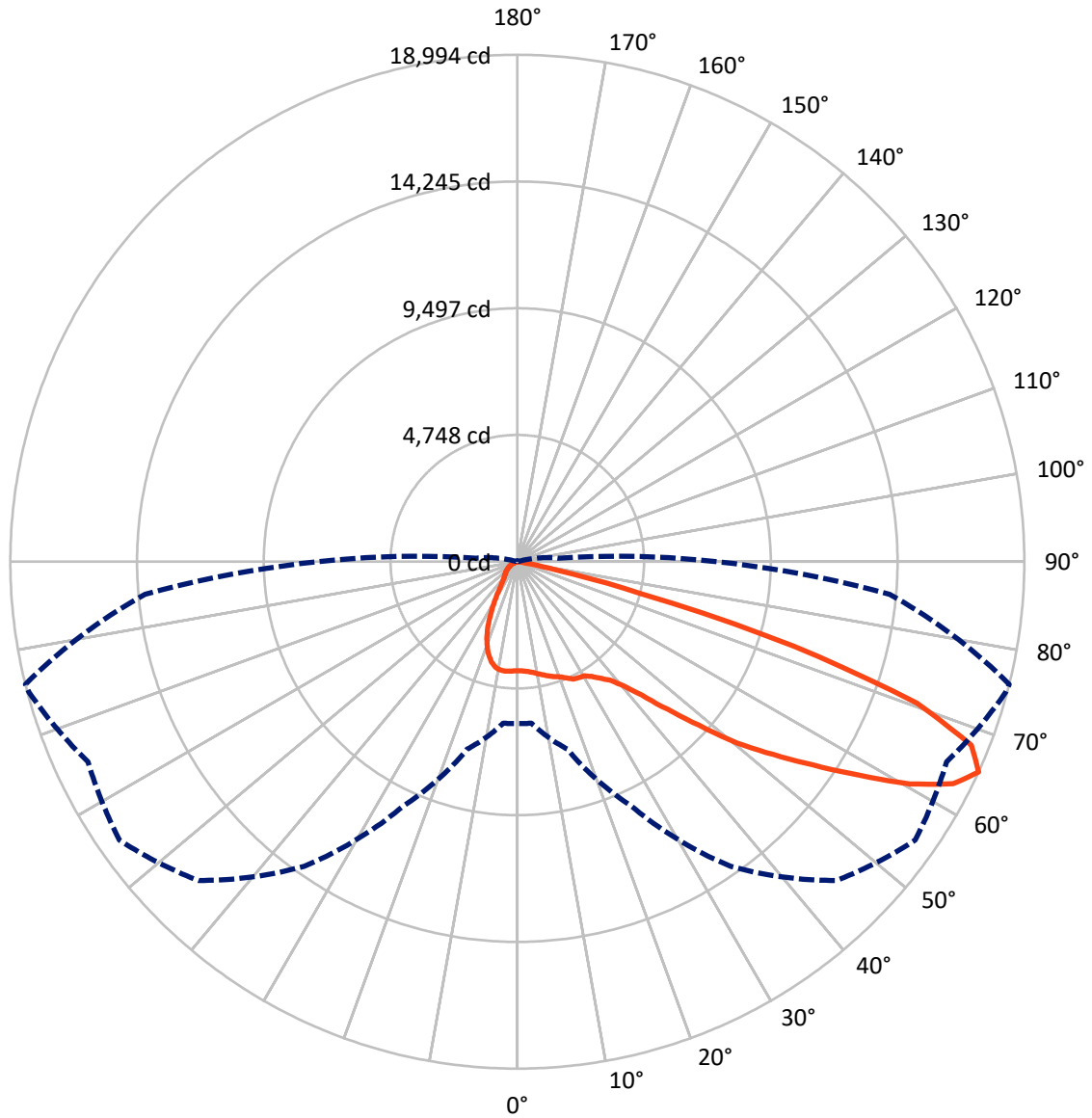
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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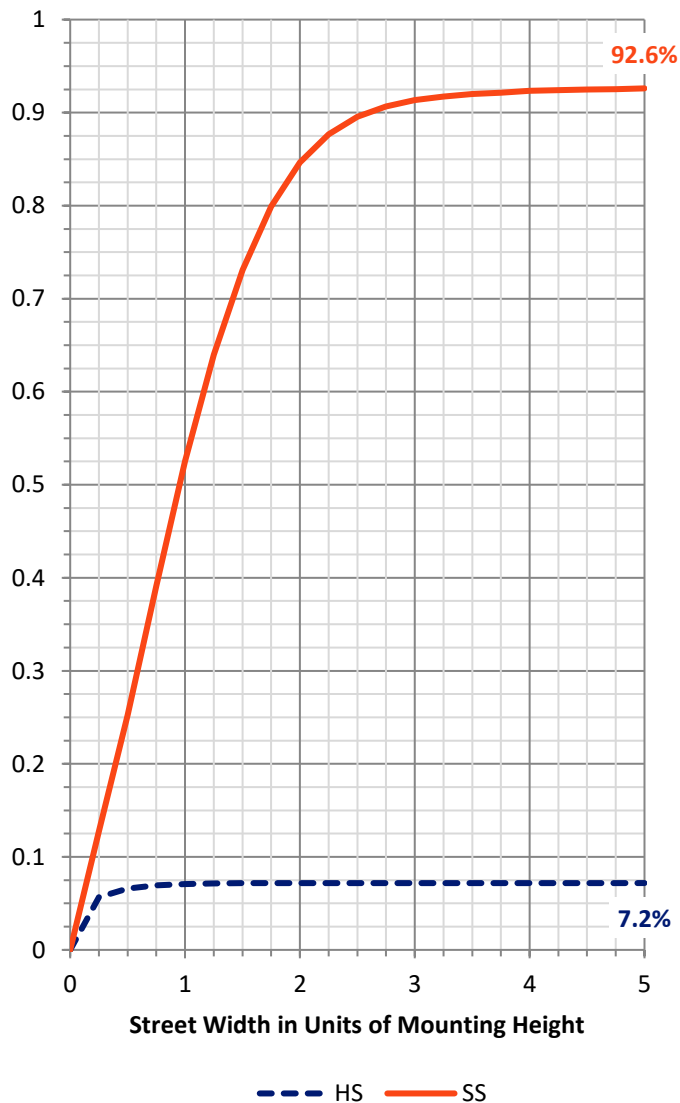
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1611.9   | 0.0    | 1611.9  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 20708.1  | 0.0    | 20708.1 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 22320.0  | 0.0    | 22320.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 336.3   | 1.5       |
| 10°-20°   | 748.9   | 3.4       |
| 20°-30°   | 1206.8  | 5.4       |
| 30°-40°   | 2098.3  | 9.4       |
| 40°-50°   | 3467.3  | 15.5      |
| 50°-60°   | 5356.3  | 24.0      |
| 60°-70°   | 6540.8  | 29.3      |
| 70°-80°   | 2482.4  | 11.1      |
| 80°-90°   | 82.8    | 0.4       |
| 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°    | 22320.0 | 100.0     |
| 0°-180°   | 22320.0 | 100.0     |

**Coefficient of Utilization**



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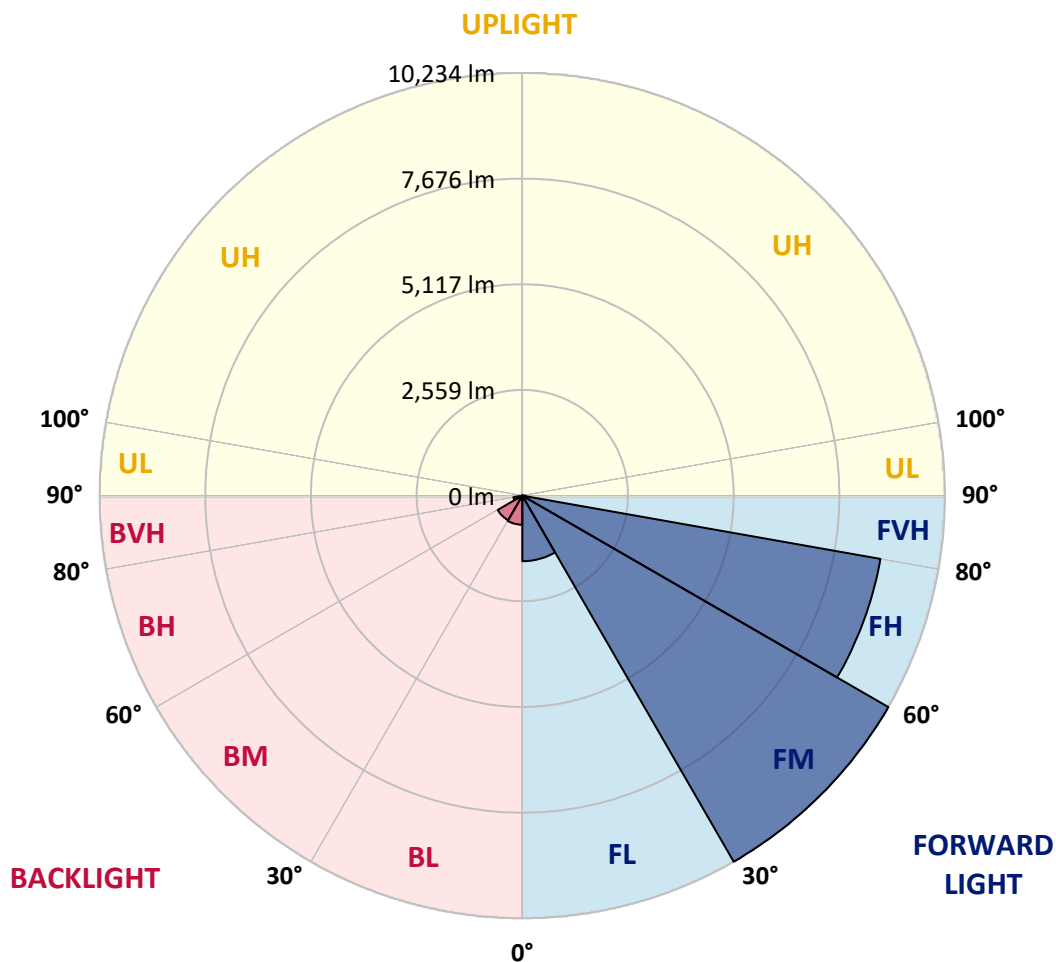
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1587.8  | 7.1       |                         |      |          |
| FM   | (30°-60°)   | 10234.1 | 45.9      |                         |      |          |
| FH   | (60°-80°)   | 8804.5  | 39.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 81.7    | 0.4       |                         |      | G1/100   |
| BL   | (0°-30°)    | 704.2   | 3.2       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 687.9   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 218.7   | 1.0       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 1.1     | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4083.0 | 4083.0 | 4083.0  | 4083.0  | 4083.0  | 4083.0  | 4083.0  | 4083.0  | 4083.0  | 4083.0  | 4083.0  |
| 2.5°  | 3901.8 | 3903.4 | 3912.8  | 3936.5  | 3972.7  | 4002.7  | 4027.9  | 4068.9  | 4097.2  | 4100.4  | 4109.8  |
| 5°    | 3632.3 | 3613.4 | 3632.3  | 3693.8  | 3749.0  | 3832.5  | 3934.9  | 4037.3  | 4128.7  | 4135.0  | 4179.2  |
| 7.5°  | 3329.8 | 3345.5 | 3375.5  | 3438.5  | 3542.5  | 3670.2  | 3818.3  | 4001.1  | 4174.4  | 4190.2  | 4276.9  |
| 10°   | 3022.5 | 3057.2 | 3106.0  | 3202.1  | 3347.1  | 3512.6  | 3714.3  | 3975.9  | 4246.9  | 4269.0  | 4418.7  |
| 12.5° | 2738.8 | 2754.6 | 2814.5  | 2943.7  | 3123.3  | 3356.6  | 3635.5  | 3961.7  | 4327.3  | 4354.1  | 4570.0  |
| 15°   | 2521.4 | 2541.9 | 2593.9  | 2710.5  | 2910.6  | 3210.0  | 3570.9  | 3957.0  | 4406.1  | 4443.9  | 4721.3  |
| 17.5° | 2480.4 | 2493.0 | 2515.1  | 2593.9  | 2768.8  | 3093.4  | 3512.6  | 3955.4  | 4481.7  | 4527.4  | 4861.5  |
| 20°   | 2649.0 | 2638.0 | 2615.9  | 2608.0  | 2704.2  | 3003.6  | 3470.0  | 3968.0  | 4554.2  | 4606.2  | 5009.6  |
| 22.5° | 3071.3 | 3085.5 | 2956.3  | 2803.4  | 2771.9  | 2989.4  | 3463.7  | 4027.9  | 4669.3  | 4730.7  | 5175.1  |
| 25°   | 3968.0 | 3859.3 | 3657.6  | 3292.0  | 3016.2  | 3076.1  | 3534.6  | 4169.7  | 4803.2  | 4871.0  | 5324.8  |
| 27.5° | 4959.2 | 4926.1 | 4612.5  | 4010.6  | 3496.8  | 3258.9  | 3660.7  | 4278.4  | 4847.3  | 4916.7  | 5409.9  |
| 30°   | 5933.1 | 5972.5 | 5613.2  | 4948.2  | 4194.9  | 3597.7  | 3778.9  | 4319.4  | 4886.7  | 4959.2  | 5518.6  |
| 32.5° | 6836.1 | 6883.3 | 6568.2  | 5909.5  | 5017.5  | 4183.9  | 3982.2  | 4478.6  | 5052.2  | 5126.3  | 5699.9  |
| 35°   | 7546.8 | 7553.1 | 7315.1  | 6790.4  | 5915.8  | 4896.2  | 4421.8  | 4757.5  | 5276.0  | 5362.6  | 5892.1  |
| 37.5° | 8199.2 | 8189.7 | 7910.8  | 7458.5  | 6664.3  | 5603.7  | 4975.0  | 5079.0  | 5531.3  | 5621.1  | 6169.5  |
| 40°   | 8683.0 | 8689.3 | 8599.4  | 8174.0  | 7362.4  | 6257.7  | 5413.1  | 5380.0  | 5959.9  | 6100.1  | 6572.9  |
| 42.5° | 9006.0 | 9064.3 | 9108.4  | 8892.5  | 8240.1  | 7063.0  | 6086.0  | 6024.5  | 6703.7  | 6820.3  | 7143.4  |
| 45°   | 9267.6 | 9371.6 | 9592.2  | 9581.2  | 9083.2  | 8051.0  | 7009.4  | 6883.3  | 7757.9  | 7882.4  | 7869.8  |
| 47.5° | 9458.3 | 9563.9 | 9929.5  | 10150.1 | 9875.9  | 9009.2  | 8170.8  | 8062.1  | 9017.0  | 9152.6  | 8671.9  |
| 50°   | 9556.0 | 9682.1 | 10148.5 | 10575.6 | 10495.2 | 9932.6  | 9494.5  | 9500.8  | 10537.7 | 10668.5 | 9601.7  |
| 52.5° | 9327.5 | 9491.4 | 10265.1 | 11034.1 | 11190.1 | 10816.7 | 10734.7 | 10942.7 | 11891.4 | 12003.3 | 10441.6 |
| 55°   | 8597.9 | 8804.3 | 10106.0 | 11424.9 | 11995.4 | 11859.9 | 12143.5 | 12460.3 | 13371.1 | 13443.6 | 11303.6 |
| 57.5° | 8136.1 | 8355.2 | 9636.4  | 11757.5 | 12963.0 | 13171.0 | 13620.1 | 13851.8 | 14898.1 | 15082.5 | 12293.2 |
| 60°   | 7746.9 | 7918.7 | 9250.3  | 11828.4 | 13946.3 | 14775.2 | 15211.7 | 15451.3 | 16782.9 | 16902.6 | 13382.2 |
| 62.5° | 7099.2 | 7296.2 | 8597.9  | 11333.5 | 14441.1 | 16059.5 | 16964.1 | 16856.9 | 18240.5 | 18324.0 | 14050.3 |
| 65°   | 6057.6 | 6074.9 | 7274.1  | 10090.2 | 13930.6 | 16893.2 | 18194.8 | 17745.7 | 18937.0 | 18993.8 | 13998.3 |
| 67.5° | 4521.1 | 4688.2 | 5595.9  | 7931.3  | 11766.9 | 16180.9 | 18593.5 | 17769.3 | 18497.4 | 18339.8 | 12887.3 |
| 70°   | 2912.2 | 3039.8 | 3793.1  | 5499.7  | 8484.4  | 13503.5 | 17271.4 | 16551.2 | 16234.5 | 15884.6 | 10548.8 |
| 72.5° | 1344.2 | 1508.1 | 2253.5  | 3142.3  | 5031.7  | 9619.0  | 14020.4 | 13446.8 | 11685.0 | 10821.4 | 6705.3  |
| 75°   | 586.2  | 627.2  | 1112.6  | 1657.8  | 2359.1  | 5086.9  | 9244.0  | 8347.3  | 5277.5  | 4820.5  | 2683.7  |
| 77.5° | 357.7  | 384.5  | 583.1   | 888.8   | 926.6   | 1938.3  | 4979.7  | 3641.8  | 1631.0  | 1438.8  | 728.0   |
| 80°   | 242.7  | 272.6  | 423.9   | 464.9   | 316.7   | 540.5   | 1869.0  | 972.3   | 329.4   | 315.2   | 156.0   |
| 82.5° | 118.2  | 149.7  | 313.6   | 260.0   | 137.1   | 173.3   | 543.7   | 208.0   | 96.1    | 89.8    | 55.2    |
| 85°   | 17.3   | 29.9   | 176.5   | 170.2   | 61.5    | 41.0    | 96.1    | 52.0    | 33.1    | 31.5    | 25.2    |
| 87.5° | 0.0    | 0.0    | 59.9    | 26.8    | 6.3     | 6.3     | 11.0    | 11.0    | 12.6    | 11.0    | 12.6    |
| 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°    | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 | 4083.0 |
| 2.5°  | 4114.6 | 4122.4 | 4092.5 | 4049.9 | 4004.2 | 3958.5 | 3893.9 | 3835.6 | 3801.0 | 3821.4 | 3771.0 |
| 5°    | 4188.6 | 4182.3 | 4103.5 | 3974.3 | 3802.5 | 3596.1 | 3391.2 | 3216.3 | 3159.6 | 3074.5 | 3065.0 |
| 7.5°  | 4291.1 | 4273.7 | 4106.7 | 3810.4 | 3422.8 | 3035.1 | 2656.9 | 2406.3 | 2262.9 | 2141.6 | 2144.7 |
| 10°   | 4434.5 | 4384.0 | 4070.4 | 3522.0 | 2883.8 | 2299.2 | 1817.0 | 1486.0 | 1342.6 | 1296.9 | 1260.7 |
| 12.5° | 4582.6 | 4484.9 | 3969.6 | 3132.8 | 2245.6 | 1571.1 | 1104.7 | 903.0  | 814.7  | 786.4  | 783.2  |
| 15°   | 4715.0 | 4560.5 | 3793.1 | 2664.8 | 1632.6 | 1003.8 | 753.3  | 687.1  | 676.0  | 677.6  | 676.0  |
| 17.5° | 4845.8 | 4620.4 | 3548.8 | 2168.4 | 1109.4 | 720.2  | 647.7  | 631.9  | 636.6  | 642.9  | 641.4  |
| 20°   | 4954.5 | 4633.0 | 3236.8 | 1654.6 | 784.8  | 631.9  | 608.3  | 605.1  | 609.9  | 614.6  | 614.6  |
| 22.5° | 5072.7 | 4642.5 | 2866.5 | 1145.6 | 641.4  | 587.8  | 575.2  | 575.2  | 581.5  | 587.8  | 589.4  |
| 25°   | 5160.9 | 4590.5 | 2423.7 | 822.6  | 565.7  | 545.2  | 538.9  | 540.5  | 546.8  | 550.0  | 548.4  |
| 27.5° | 5175.1 | 4443.9 | 1954.1 | 630.3  | 513.7  | 493.2  | 486.9  | 493.2  | 485.4  | 490.1  | 486.9  |
| 30°   | 5187.7 | 4258.0 | 1478.2 | 531.1  | 466.5  | 434.9  | 425.5  | 416.0  | 409.7  | 401.8  | 400.3  |
| 32.5° | 5227.1 | 4038.9 | 1079.5 | 477.5  | 422.3  | 387.7  | 365.6  | 338.8  | 318.3  | 312.0  | 310.4  |
| 35°   | 5244.4 | 3775.7 | 792.7  | 434.9  | 382.9  | 345.1  | 305.7  | 267.9  | 238.0  | 226.9  | 234.8  |
| 37.5° | 5310.6 | 3520.5 | 614.6  | 403.4  | 348.3  | 301.0  | 250.6  | 203.3  | 174.9  | 168.6  | 171.8  |
| 40°   | 5446.2 | 3243.1 | 515.3  | 376.6  | 318.3  | 260.0  | 198.6  | 152.9  | 133.9  | 127.6  | 126.1  |
| 42.5° | 5663.6 | 2967.3 | 458.6  | 351.4  | 288.4  | 219.0  | 156.0  | 119.8  | 104.0  | 99.3   | 99.3   |
| 45°   | 5928.4 | 2702.6 | 419.2  | 324.6  | 256.9  | 176.5  | 122.9  | 96.1   | 86.7   | 83.5   | 83.5   |
| 47.5° | 6276.6 | 2470.9 | 386.1  | 297.8  | 222.2  | 140.3  | 99.3   | 83.5   | 77.2   | 78.8   | 80.4   |
| 50°   | 6629.6 | 2299.2 | 349.8  | 267.9  | 182.8  | 115.0  | 85.1   | 74.1   | 72.5   | 74.1   | 74.1   |
| 52.5° | 6895.9 | 2198.3 | 301.0  | 226.9  | 143.4  | 96.1   | 75.6   | 69.3   | 67.8   | 64.6   | 64.6   |
| 55°   | 7255.2 | 2176.3 | 239.5  | 184.4  | 113.5  | 80.4   | 67.8   | 63.0   | 58.3   | 55.2   | 53.6   |
| 57.5° | 7717.0 | 2201.5 | 184.4  | 143.4  | 88.2   | 66.2   | 59.9   | 52.0   | 45.7   | 39.4   | 39.4   |
| 60°   | 8003.8 | 2144.7 | 143.4  | 110.3  | 64.6   | 53.6   | 45.7   | 37.8   | 29.9   | 25.2   | 23.6   |
| 62.5° | 7912.4 | 1905.2 | 113.5  | 81.9   | 45.7   | 39.4   | 29.9   | 25.2   | 17.3   | 12.6   | 11.0   |
| 65°   | 7441.2 | 1538.0 | 91.4   | 56.7   | 33.1   | 23.6   | 15.8   | 15.8   | 7.9    | 1.6    | 0.0    |
| 67.5° | 6513.0 | 1139.3 | 72.5   | 37.8   | 18.9   | 11.0   | 7.9    | 4.7    | 0.0    | 0.0    | 0.0    |
| 70°   | 5301.2 | 822.6  | 56.7   | 23.6   | 11.0   | 7.9    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3366.0 | 471.2  | 44.1   | 14.2   | 7.9    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1301.7 | 184.4  | 29.9   | 9.5    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 368.8  | 86.7   | 17.3   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 96.1   | 37.8   | 9.5    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 45.7   | 15.8   | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 26.8   | 6.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.6   | 1.6    | 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)