

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: P456790

Luminaire Tested: **GLAN-SA8A-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27606 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

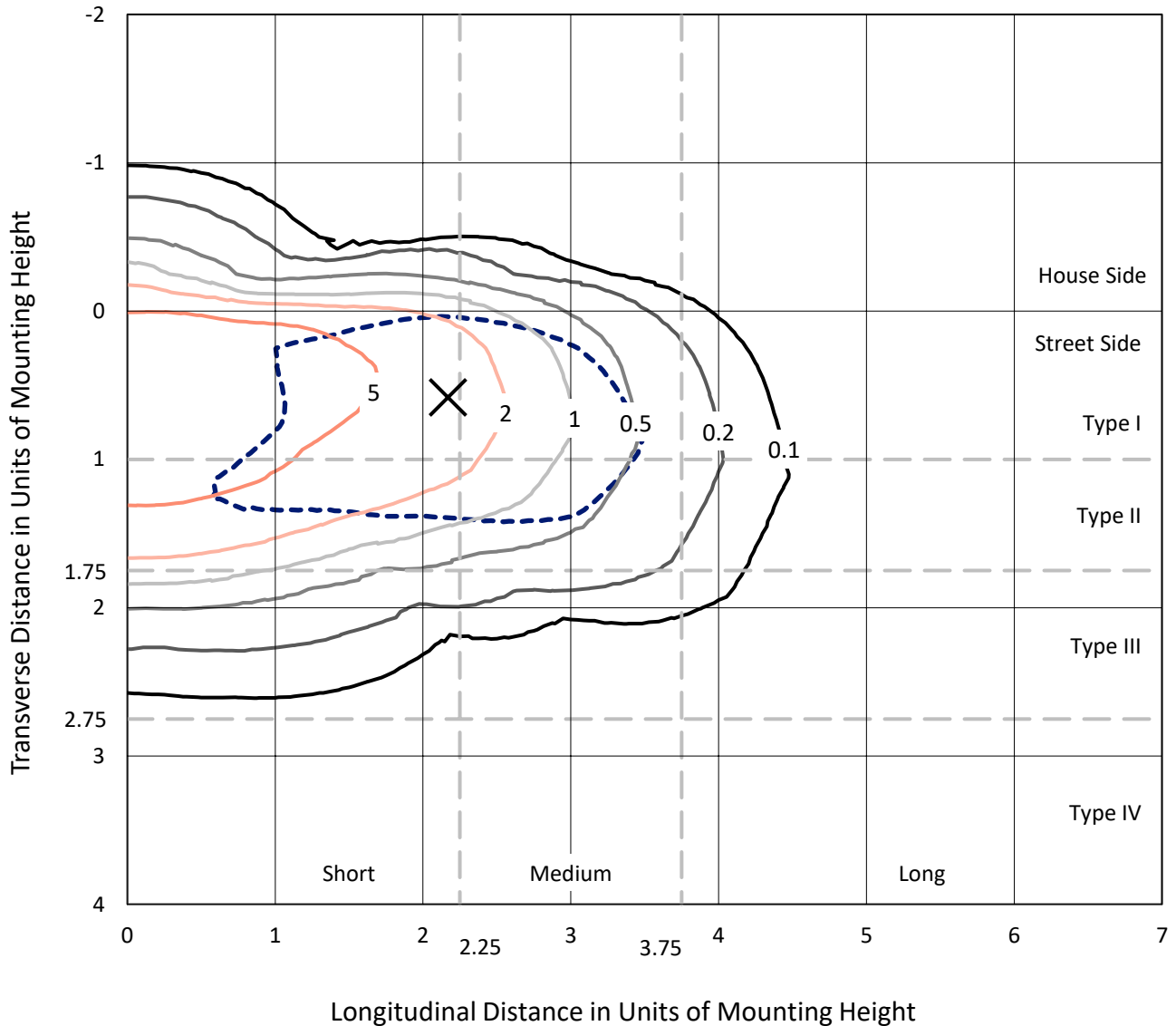
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

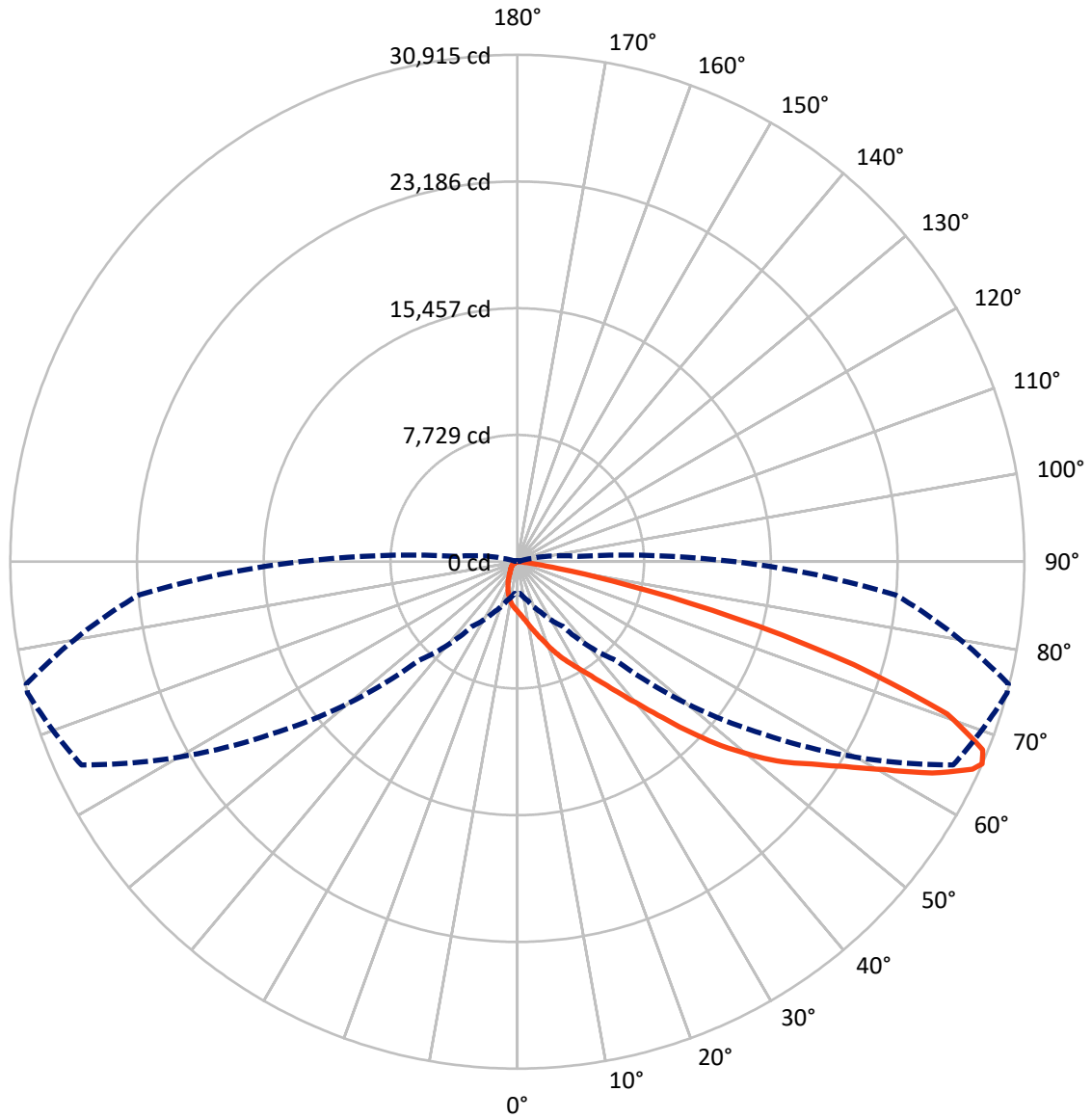
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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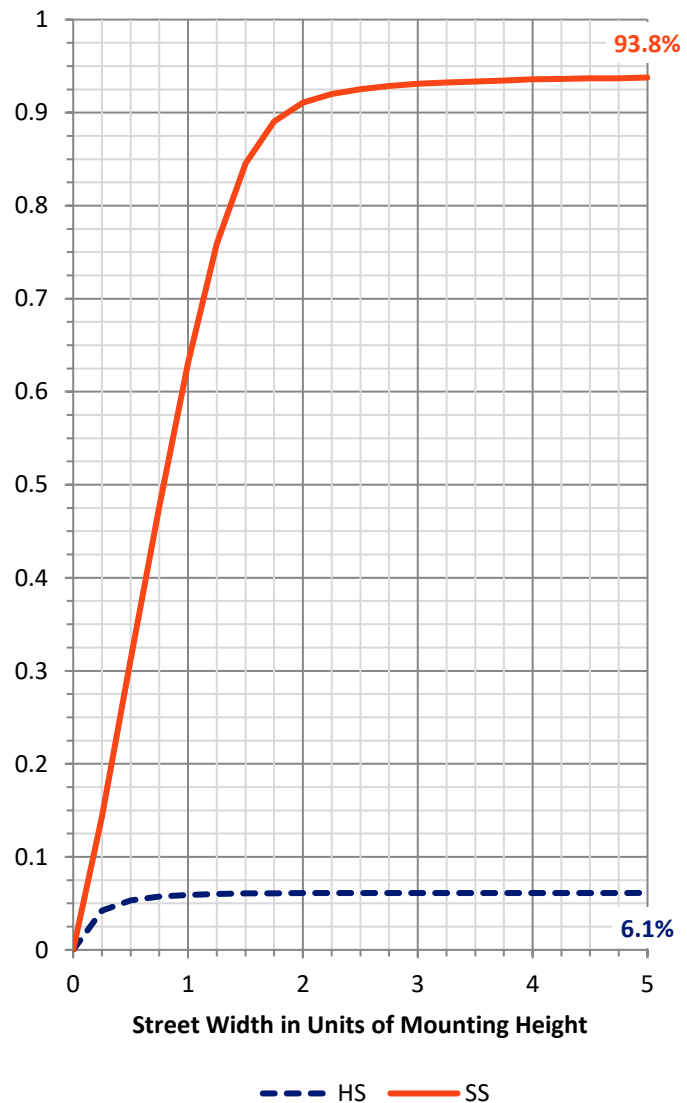
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1704.3   | 0.0    | 1704.3  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 25901.7  | 0.0    | 25901.7 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 27606.0  | 0.0    | 27606.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 291.2   | 1.1       |
| 10°-20°   | 857.0   | 3.1       |
| 20°-30°   | 1479.8  | 5.4       |
| 30°-40°   | 2669.3  | 9.7       |
| 40°-50°   | 4822.1  | 17.5      |
| 50°-60°   | 7517.7  | 27.2      |
| 60°-70°   | 7141.5  | 25.9      |
| 70°-80°   | 2676.5  | 9.7       |
| 80°-90°   | 151.0   | 0.5       |
| 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°    | 27606.0 | 100.0     |
| 0°-180°   | 27606.0 | 100.0     |



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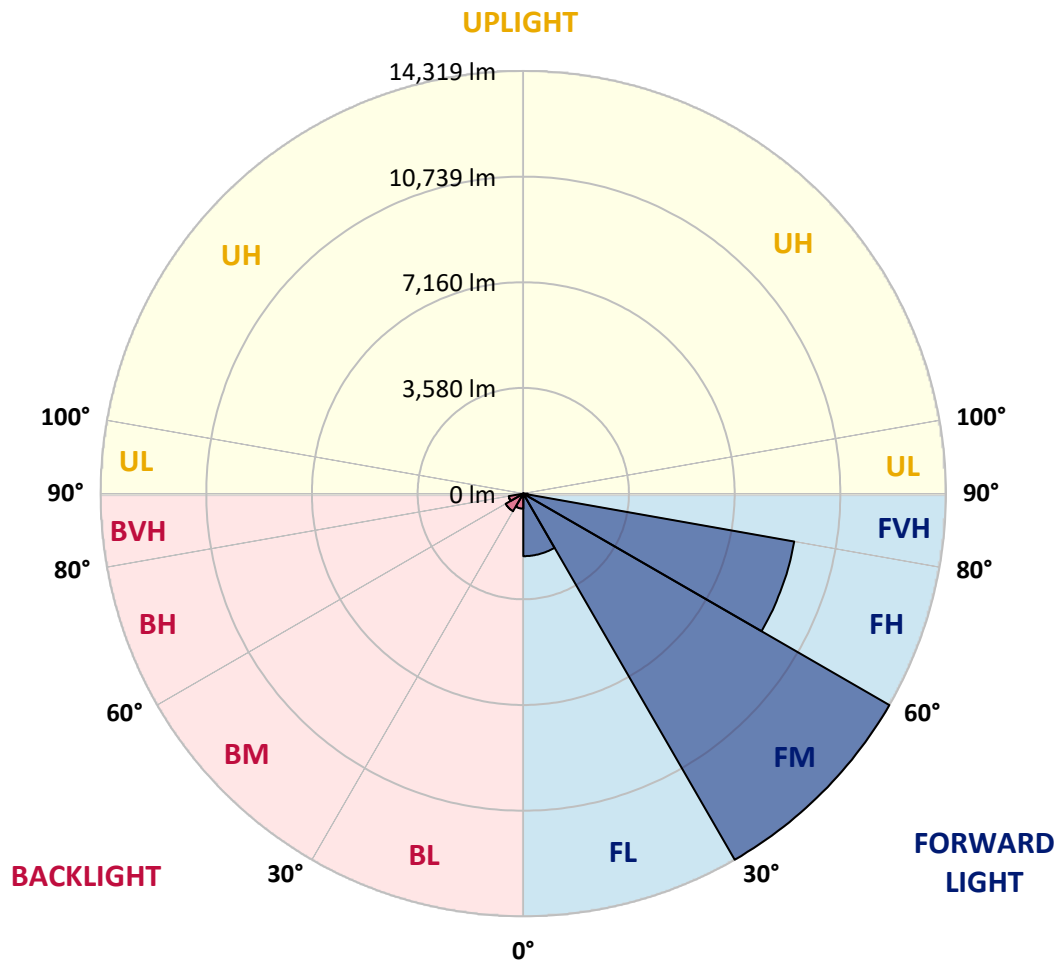
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2119.0  | 7.7       |                         |      |          |
| FM   | (30°-60°)   | 14319.2 | 51.9      |                         |      |          |
| FH   | (60°-80°)   | 9320.3  | 33.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 143.2   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 509.0   | 1.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 689.8   | 2.5       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 497.7   | 1.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 7.8     | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  | 3019.0  |
| 2.5°  | 3606.9  | 3562.0  | 3576.2  | 3555.8  | 3508.9  | 3439.5  | 3378.2  | 3290.5  | 3202.7  | 3188.4  | 3090.4  |
| 5°    | 4082.5  | 4070.2  | 4053.9  | 3994.7  | 3962.0  | 3855.9  | 3729.3  | 3578.3  | 3396.6  | 3364.0  | 3186.4  |
| 7.5°  | 4407.0  | 4400.9  | 4409.1  | 4378.5  | 4349.9  | 4253.9  | 4119.2  | 3913.1  | 3631.4  | 3613.0  | 3317.0  |
| 10°   | 4513.2  | 4529.5  | 4560.1  | 4609.1  | 4654.0  | 4623.4  | 4521.3  | 4264.1  | 3935.5  | 3882.4  | 3466.0  |
| 12.5° | 4451.9  | 4470.3  | 4543.8  | 4674.4  | 4819.4  | 4903.1  | 4862.2  | 4674.4  | 4258.0  | 4215.2  | 3633.4  |
| 15°   | 4294.8  | 4317.2  | 4421.3  | 4623.4  | 4882.6  | 5119.4  | 5221.5  | 5086.8  | 4633.6  | 4564.2  | 3835.5  |
| 17.5° | 4062.1  | 4094.7  | 4243.7  | 4511.1  | 4866.3  | 5274.6  | 5562.4  | 5517.5  | 5033.7  | 4968.4  | 4055.9  |
| 20°   | 3886.5  | 3911.0  | 4037.6  | 4343.8  | 4796.9  | 5360.3  | 5886.9  | 6013.5  | 5527.7  | 5415.4  | 4315.2  |
| 22.5° | 4002.9  | 4011.0  | 4053.9  | 4237.6  | 4672.4  | 5382.7  | 6172.7  | 6529.9  | 6052.3  | 5952.2  | 4584.6  |
| 25°   | 4572.4  | 4490.7  | 4447.9  | 4407.0  | 4645.9  | 5362.3  | 6431.9  | 7068.8  | 6574.8  | 6468.7  | 4852.0  |
| 27.5° | 5470.5  | 5433.8  | 5217.4  | 4927.5  | 4872.4  | 5388.9  | 6603.4  | 7579.1  | 7066.8  | 6952.5  | 5113.3  |
| 30°   | 6448.3  | 6385.0  | 6252.3  | 5827.7  | 5401.1  | 5576.7  | 6727.9  | 8075.1  | 7648.5  | 7497.5  | 5352.1  |
| 32.5° | 7346.4  | 7387.2  | 7189.2  | 6752.4  | 6258.4  | 5976.7  | 6889.2  | 8616.1  | 8316.0  | 8128.2  | 5629.7  |
| 35°   | 8393.6  | 8475.2  | 8171.1  | 7752.6  | 7174.9  | 6699.3  | 7203.5  | 9226.4  | 9163.1  | 8926.3  | 6058.4  |
| 37.5° | 9457.0  | 9506.0  | 9320.3  | 8732.4  | 8211.9  | 7617.9  | 7795.5  | 9979.6  | 10206.2 | 10004.1 | 6570.7  |
| 40°   | 10351.1 | 10418.5 | 10281.7 | 9759.2  | 9203.9  | 8681.4  | 8654.8  | 10800.2 | 11447.3 | 11239.0 | 7334.2  |
| 42.5° | 11034.9 | 11086.0 | 11090.0 | 10720.6 | 10220.5 | 9983.7  | 9751.0  | 11847.3 | 13002.7 | 12761.8 | 8220.1  |
| 45°   | 11898.4 | 11971.9 | 11929.0 | 11677.9 | 11304.4 | 11261.5 | 11141.1 | 13112.9 | 14864.3 | 14560.1 | 9369.3  |
| 47.5° | 13233.3 | 13282.3 | 13176.2 | 12880.2 | 12500.5 | 12567.9 | 12496.5 | 14531.6 | 16762.6 | 16501.4 | 10559.3 |
| 50°   | 14160.1 | 14241.7 | 14392.8 | 14511.2 | 14235.6 | 13986.6 | 13774.3 | 15856.3 | 18565.0 | 18330.3 | 11775.9 |
| 52.5° | 14149.9 | 14284.6 | 14762.2 | 15358.3 | 15960.4 | 15884.9 | 15274.6 | 17319.9 | 20285.8 | 19996.0 | 12919.0 |
| 55°   | 13196.6 | 13457.9 | 14160.1 | 15217.4 | 16885.1 | 17715.9 | 17438.3 | 19014.1 | 21771.8 | 21575.9 | 14243.7 |
| 57.5° | 11228.8 | 11388.1 | 12363.8 | 13841.6 | 16368.7 | 18577.3 | 19944.9 | 21310.5 | 23553.8 | 23462.0 | 16301.3 |
| 60°   | 7552.6  | 7624.0  | 8879.4  | 10706.3 | 13935.5 | 17717.9 | 21782.0 | 24088.6 | 25748.2 | 25703.3 | 18703.9 |
| 62.5° | 4327.4  | 4358.0  | 5268.4  | 6809.6  | 9916.3  | 15015.3 | 21937.2 | 27515.9 | 28379.3 | 28403.8 | 21484.0 |
| 65°   | 2329.1  | 2345.4  | 3080.2  | 3996.7  | 6033.9  | 10702.2 | 19726.5 | 29393.8 | 30506.3 | 30553.2 | 23206.8 |
| 66°   | 2010.6  | 1933.1  | 2451.5  | 3406.8  | 4801.0  | 8518.1  | 18328.3 | 29326.4 | 30914.5 | 30863.5 | 23145.6 |
| 67.5° | 1528.9  | 1598.3  | 1957.5  | 2618.9  | 3557.9  | 6056.3  | 15131.7 | 28022.1 | 30604.3 | 30445.0 | 22204.6 |
| 70°   | 1094.1  | 1122.7  | 1394.2  | 1867.7  | 2422.9  | 3323.1  | 9669.3  | 23274.2 | 27815.9 | 27601.6 | 19344.8 |
| 72.5° | 706.3   | 736.9   | 988.0   | 1351.3  | 1751.4  | 1814.7  | 5413.4  | 16815.7 | 21445.2 | 21414.6 | 14568.3 |
| 75°   | 504.2   | 532.8   | 653.2   | 967.5   | 1316.6  | 1122.7  | 2606.7  | 11332.9 | 13633.4 | 13541.6 | 9012.1  |
| 77.5° | 365.4   | 379.7   | 436.8   | 632.8   | 941.0   | 804.2   | 1208.4  | 6052.3  | 6787.1  | 7107.6  | 3982.5  |
| 80°   | 210.2   | 222.5   | 304.1   | 385.8   | 636.9   | 549.1   | 577.7   | 2429.1  | 2504.6  | 2384.2  | 1245.2  |
| 82.5° | 104.1   | 118.4   | 181.7   | 263.3   | 398.0   | 369.5   | 265.4   | 730.8   | 771.6   | 751.2   | 314.4   |
| 85°   | 24.5    | 30.6    | 102.1   | 173.5   | 193.9   | 165.3   | 128.6   | 214.3   | 265.4   | 259.2   | 120.4   |
| 87.5° | 2.0     | 4.1     | 36.7    | 30.6    | 32.7    | 55.1    | 44.9    | 55.1    | 85.7    | 79.6    | 42.9    |
| 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°    | 3019.0  | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 | 3019.0 |
| 2.5°  | 3045.5  | 3006.7 | 2894.5 | 2784.2 | 2692.4 | 2596.5 | 2508.7 | 2457.6 | 2437.2 | 2414.8 | 2425.0 |
| 5°    | 3088.4  | 2994.5 | 2767.9 | 2572.0 | 2380.1 | 2216.8 | 2086.1 | 2002.5 | 1961.6 | 1955.5 | 1945.3 |
| 7.5°  | 3145.5  | 2984.3 | 2633.2 | 2327.0 | 2075.9 | 1894.3 | 1745.3 | 1624.8 | 1588.1 | 1555.4 | 1528.9 |
| 10°   | 3214.9  | 2965.9 | 2465.8 | 2069.8 | 1802.4 | 1573.8 | 1377.8 | 1234.9 | 1161.5 | 1141.1 | 1155.3 |
| 12.5° | 3288.4  | 2931.2 | 2290.3 | 1833.0 | 1524.8 | 1232.9 | 1051.2 | 979.8  | 959.4  | 951.2  | 953.3  |
| 15°   | 3361.9  | 2888.3 | 2106.6 | 1604.4 | 1214.5 | 983.9  | 900.2  | 881.8  | 873.6  | 869.6  | 865.5  |
| 17.5° | 3429.3  | 2818.9 | 1900.4 | 1381.9 | 983.9  | 841.0  | 810.4  | 794.0  | 777.7  | 771.6  | 761.4  |
| 20°   | 3508.9  | 2739.3 | 1714.6 | 1132.9 | 832.8  | 761.4  | 724.6  | 694.0  | 669.5  | 653.2  | 651.2  |
| 22.5° | 3584.4  | 2637.3 | 1520.7 | 939.0  | 759.3  | 683.8  | 624.6  | 592.0  | 563.4  | 543.0  | 549.1  |
| 25°   | 3625.2  | 2512.8 | 1347.2 | 818.5  | 692.0  | 606.2  | 540.9  | 500.1  | 469.5  | 459.3  | 457.2  |
| 27.5° | 3625.2  | 2359.7 | 1177.8 | 749.1  | 630.7  | 536.8  | 469.5  | 430.7  | 410.3  | 396.0  | 398.0  |
| 30°   | 3596.7  | 2190.2 | 1020.6 | 696.1  | 577.7  | 475.6  | 412.3  | 377.6  | 361.3  | 351.1  | 349.1  |
| 32.5° | 3574.2  | 2029.0 | 885.9  | 645.0  | 522.6  | 422.5  | 367.4  | 340.9  | 324.6  | 314.4  | 314.4  |
| 35°   | 3608.9  | 1890.2 | 781.8  | 594.0  | 471.5  | 381.7  | 332.7  | 308.2  | 291.9  | 283.7  | 281.7  |
| 37.5° | 3700.8  | 1763.6 | 702.2  | 538.9  | 424.6  | 347.0  | 308.2  | 279.6  | 263.3  | 253.1  | 249.0  |
| 40°   | 3927.3  | 1692.2 | 643.0  | 487.9  | 379.7  | 318.4  | 279.6  | 253.1  | 232.7  | 222.5  | 220.5  |
| 42.5° | 4290.7  | 1694.2 | 585.8  | 440.9  | 345.0  | 293.9  | 255.2  | 224.5  | 202.1  | 191.9  | 189.8  |
| 45°   | 4837.7  | 1771.8 | 540.9  | 396.0  | 314.4  | 267.4  | 228.6  | 196.0  | 175.5  | 165.3  | 165.3  |
| 47.5° | 5493.0  | 1922.8 | 502.1  | 357.2  | 285.8  | 242.9  | 202.1  | 169.4  | 149.0  | 140.8  | 140.8  |
| 50°   | 6203.3  | 2118.8 | 463.4  | 316.4  | 261.3  | 216.4  | 173.5  | 147.0  | 130.6  | 124.5  | 124.5  |
| 52.5° | 6928.0  | 2355.6 | 424.6  | 283.7  | 234.7  | 187.8  | 149.0  | 130.6  | 116.4  | 112.3  | 110.2  |
| 55°   | 7879.2  | 2657.7 | 383.8  | 249.0  | 206.2  | 161.3  | 132.7  | 114.3  | 98.0   | 91.9   | 89.8   |
| 57.5° | 9342.7  | 3112.9 | 338.8  | 218.4  | 169.4  | 134.7  | 114.3  | 95.9   | 77.6   | 67.4   | 65.3   |
| 60°   | 11108.4 | 3668.1 | 291.9  | 191.9  | 136.8  | 110.2  | 91.9   | 73.5   | 57.2   | 44.9   | 42.9   |
| 62.5° | 12761.8 | 4021.2 | 247.0  | 161.3  | 108.2  | 83.7   | 65.3   | 55.1   | 40.8   | 28.6   | 26.5   |
| 65°   | 13492.6 | 3902.8 | 204.1  | 130.6  | 85.7   | 59.2   | 42.9   | 38.8   | 24.5   | 12.2   | 10.2   |
| 66°   | 13249.7 | 3727.3 | 187.8  | 118.4  | 77.6   | 51.0   | 36.7   | 32.7   | 18.4   | 6.1    | 6.1    |
| 67.5° | 12533.2 | 3312.9 | 163.3  | 102.1  | 67.4   | 40.8   | 28.6   | 24.5   | 10.2   | 2.0    | 0.0    |
| 70°   | 10738.9 | 2680.1 | 128.6  | 75.5   | 49.0   | 28.6   | 16.3   | 12.2   | 6.1    | 0.0    | 0.0    |
| 72.5° | 8248.6  | 1996.3 | 102.1  | 57.2   | 34.7   | 16.3   | 8.2    | 4.1    | 6.1    | 0.0    | 0.0    |
| 75°   | 5054.1  | 1141.1 | 79.6   | 42.9   | 22.5   | 10.2   | 6.1    | 0.0    | 6.1    | 2.0    | 0.0    |
| 77.5° | 2243.3  | 512.4  | 53.1   | 28.6   | 16.3   | 8.2    | 4.1    | 0.0    | 4.1    | 2.0    | 0.0    |
| 80°   | 567.5   | 167.4  | 30.6   | 20.4   | 12.2   | 6.1    | 2.0    | 0.0    | 4.1    | 4.1    | 2.0    |
| 82.5° | 155.1   | 61.2   | 22.5   | 16.3   | 10.2   | 6.1    | 2.0    | 0.0    | 4.1    | 4.1    | 4.1    |
| 85°   | 61.2    | 28.6   | 20.4   | 16.3   | 12.2   | 6.1    | 2.0    | 0.0    | 4.1    | 4.1    | 4.1    |
| 87.5° | 28.6    | 20.4   | 20.4   | 18.4   | 14.3   | 6.1    | 2.0    | 0.0    | 4.1    | 2.0    | 4.1    |
| 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)