

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: P194275

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7060-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-AFL-7060-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34466 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 391  
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: 28.75 FT

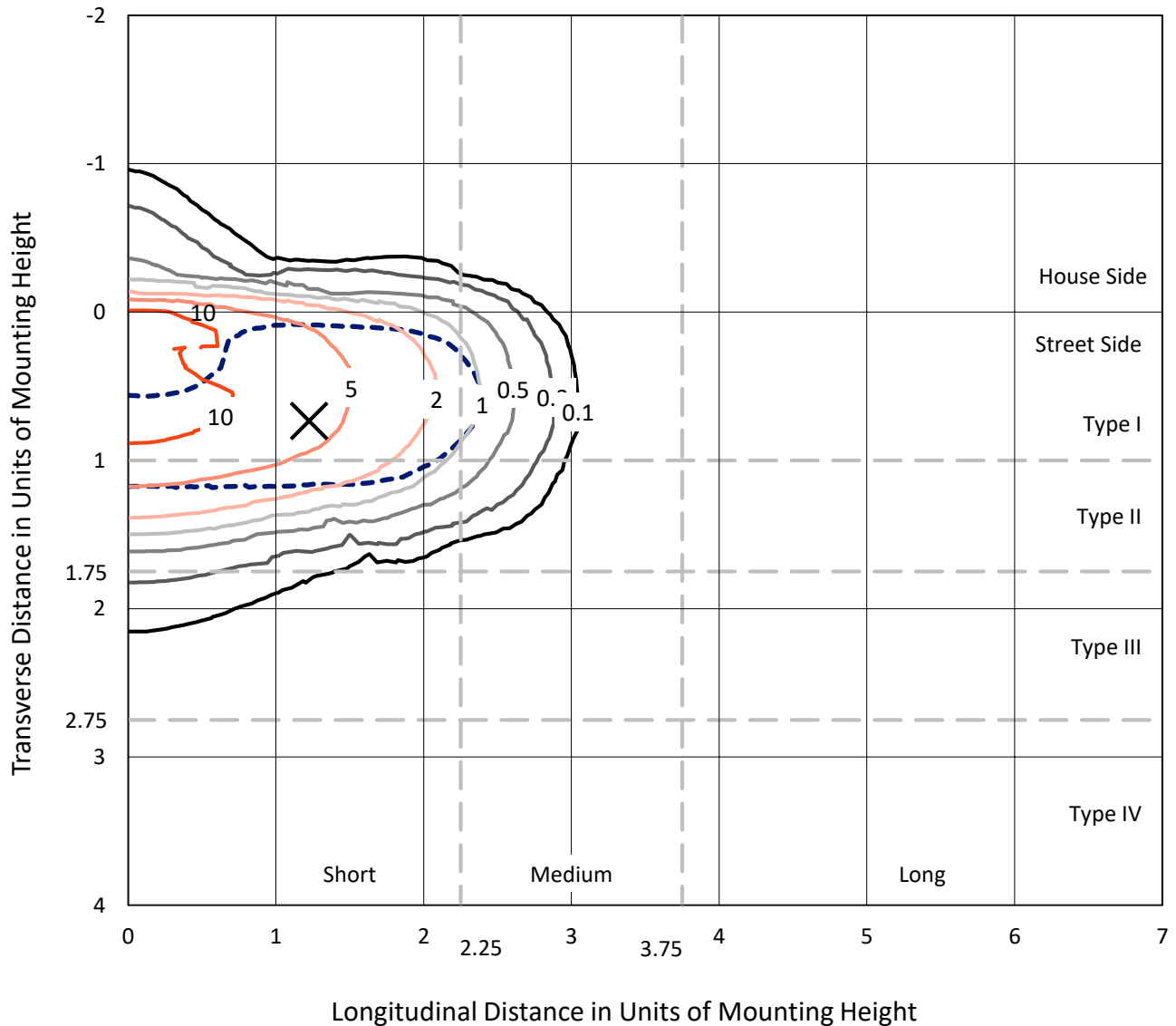


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

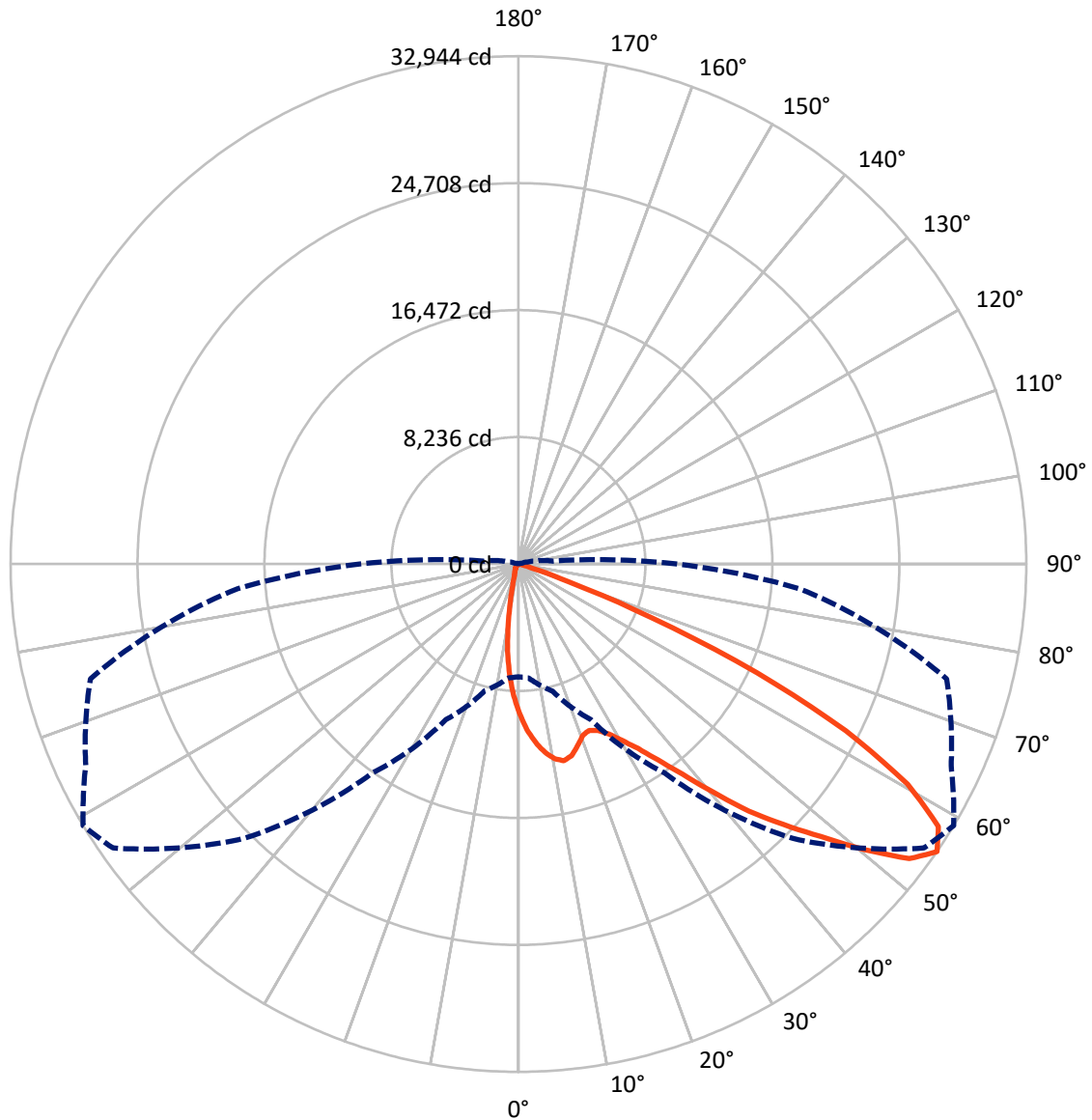


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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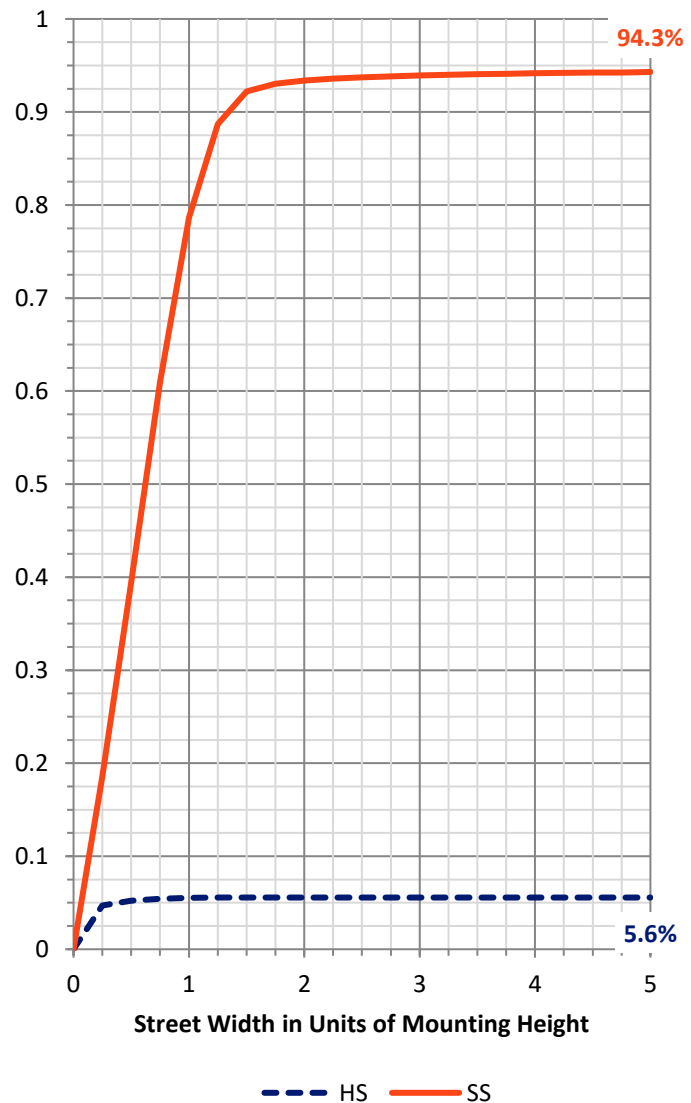
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1925.1   | 0.0    | 1925.1  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 32540.9  | 0.0    | 32540.9 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 34466.0  | 0.0    | 34466.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 812.6   | 2.4       |
| 10°-20°   | 1945.7  | 5.6       |
| 20°-30°   | 3310.9  | 9.6       |
| 30°-40°   | 5693.9  | 16.5      |
| 40°-50°   | 8790.8  | 25.5      |
| 50°-60°   | 8837.6  | 25.6      |
| 60°-70°   | 4532.0  | 13.1      |
| 70°-80°   | 491.1   | 1.4       |
| 80°-90°   | 51.3    | 0.1       |
| 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°    | 34466.0 | 100.0     |
| 0°-180°   | 34466.0 | 100.0     |

**Coefficient of Utilization**



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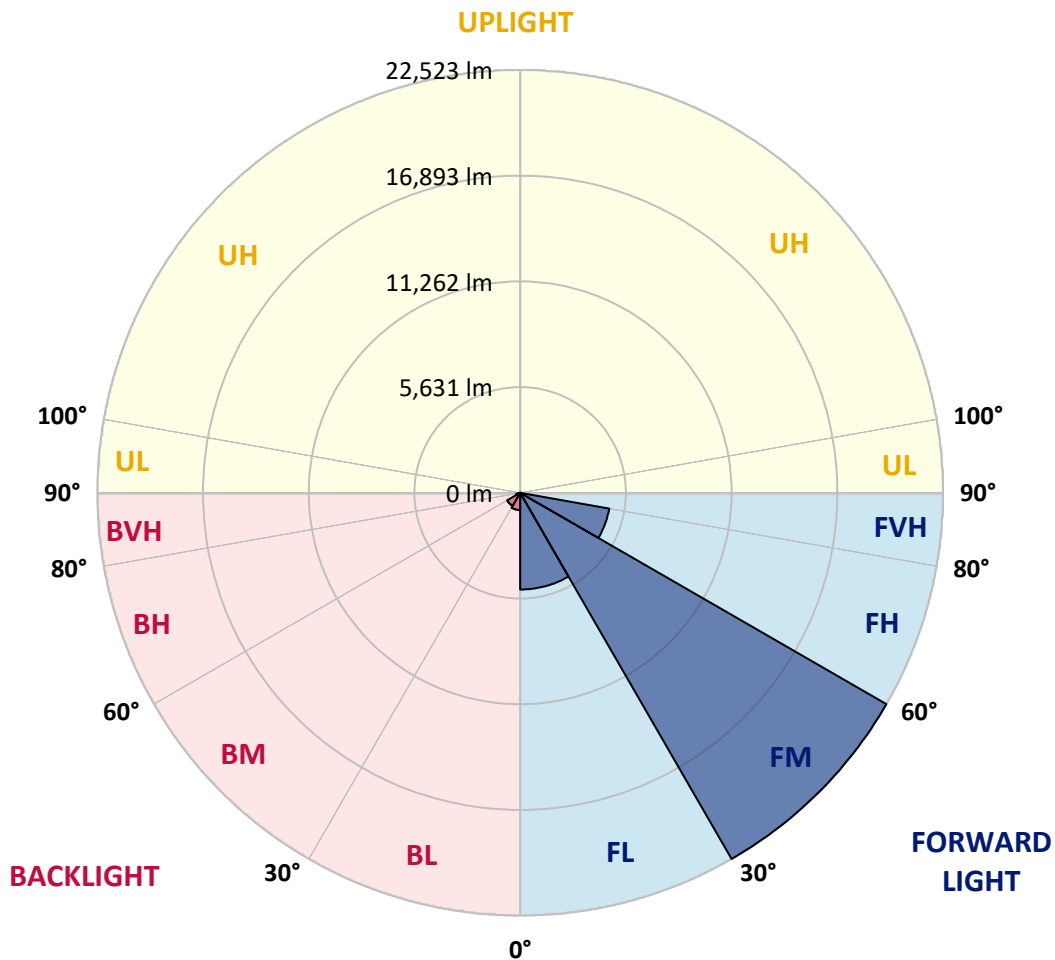
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5150.4  | 14.9      |                         |      |         |
| FM (30°-60°)   | 22523.4 | 65.3      |                         |      |         |
| FH (60°-80°)   | 4816.9  | 14.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 50.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 918.9   | 2.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 798.9   | 2.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 206.2   | 0.6       | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  | 9702.1  |
| 2.5°  | 11479.7 | 11357.7 | 11321.1 | 11296.7 | 11184.8 | 11044.5 | 10853.3 | 10763.8 | 10580.7 | 10285.8 | 9923.8  |
| 5°    | 12531.3 | 12508.9 | 12427.6 | 12382.8 | 12262.8 | 12063.5 | 11758.4 | 11612.0 | 11321.1 | 10824.8 | 10176.0 |
| 7.5°  | 12071.6 | 12212.0 | 12323.8 | 12511.0 | 12746.9 | 12738.8 | 12482.5 | 12329.9 | 12004.5 | 11349.6 | 10456.7 |
| 10°   | 10296.0 | 10409.9 | 10592.9 | 11018.0 | 11884.5 | 12649.3 | 12950.3 | 12840.5 | 12580.1 | 11831.6 | 10727.2 |
| 12.5° | 9948.2  | 9936.0  | 9968.5  | 10092.6 | 10546.2 | 11636.4 | 12871.0 | 13092.7 | 13039.8 | 12273.0 | 10983.5 |
| 15°   | 10133.3 | 10119.0 | 10115.0 | 10157.7 | 10267.5 | 10727.2 | 12275.0 | 12911.7 | 13320.5 | 12681.8 | 11201.1 |
| 17.5° | 10651.9 | 10590.9 | 10558.4 | 10523.8 | 10491.2 | 10605.1 | 11559.1 | 12405.2 | 13363.2 | 13039.8 | 11382.1 |
| 20°   | 11540.8 | 11439.1 | 11319.1 | 11123.8 | 10940.7 | 10883.8 | 11258.0 | 11884.5 | 13210.7 | 13312.4 | 11500.1 |
| 22.5° | 12657.4 | 12527.2 | 12319.8 | 11963.8 | 11591.6 | 11376.0 | 11406.5 | 11719.8 | 12982.9 | 13609.3 | 11555.0 |
| 25°   | 13912.4 | 13745.6 | 13469.0 | 12974.7 | 12427.6 | 12045.2 | 11845.9 | 11955.7 | 12879.1 | 13957.1 | 11618.1 |
| 27.5° | 15256.8 | 15071.7 | 14709.7 | 14036.5 | 13416.1 | 12899.5 | 12492.7 | 12478.4 | 13056.1 | 14412.7 | 11719.8 |
| 30°   | 16589.1 | 16560.6 | 16088.7 | 15376.8 | 14555.1 | 13926.6 | 13340.8 | 13265.6 | 13550.3 | 15043.3 | 11921.1 |
| 32.5° | 18366.8 | 18153.2 | 17575.6 | 16843.3 | 15895.5 | 15140.9 | 14447.3 | 14272.4 | 14309.0 | 15777.5 | 12232.3 |
| 35°   | 20608.2 | 20374.3 | 19560.7 | 18549.8 | 17490.1 | 16599.3 | 15832.5 | 15594.5 | 15505.0 | 16979.6 | 12757.1 |
| 37.5° | 22056.4 | 22052.3 | 21541.8 | 20512.6 | 19375.6 | 18393.2 | 17559.3 | 17280.6 | 17099.6 | 18431.9 | 13570.7 |
| 40°   | 22095.1 | 22190.7 | 22257.8 | 22247.6 | 21438.1 | 20533.0 | 19792.6 | 19448.9 | 19027.8 | 20372.3 | 14622.2 |
| 42.5° | 20909.2 | 21155.4 | 21747.2 | 22752.0 | 23232.0 | 22872.0 | 22247.6 | 21910.0 | 21283.5 | 22449.0 | 15903.6 |
| 45°   | 19306.5 | 19477.3 | 20512.6 | 22363.5 | 24204.3 | 25190.8 | 24714.8 | 24110.7 | 23284.9 | 24615.1 | 17052.8 |
| 47.5° | 18588.5 | 18619.0 | 19288.2 | 21320.1 | 24277.5 | 27090.5 | 27379.3 | 26396.9 | 25103.3 | 26360.3 | 17951.9 |
| 50°   | 16442.6 | 16497.6 | 17421.0 | 19511.9 | 23419.2 | 27987.5 | 30056.0 | 29124.5 | 27086.4 | 27704.8 | 18279.3 |
| 52.5° | 12393.0 | 12470.3 | 13641.9 | 16540.3 | 21059.8 | 27605.1 | 31972.0 | 31746.3 | 29258.7 | 28361.7 | 18297.6 |
| 55°   | 7312.1  | 7413.8  | 8532.5  | 11134.0 | 16564.7 | 25172.5 | 32114.4 | 32944.3 | 30973.4 | 28750.2 | 18269.2 |
| 57.5° | 3415.0  | 3486.2  | 4126.9  | 5735.8  | 10302.1 | 19894.3 | 29970.6 | 32122.5 | 31919.1 | 28955.6 | 18470.5 |
| 60°   | 1814.3  | 1834.6  | 1989.2  | 2483.5  | 4655.8  | 12614.7 | 25786.7 | 29006.5 | 31056.7 | 29240.4 | 18716.6 |
| 62.5° | 1387.2  | 1393.3  | 1385.1  | 1444.1  | 1956.7  | 5599.5  | 19491.6 | 23846.3 | 27584.8 | 29026.8 | 18444.1 |
| 65°   | 1202.1  | 1212.2  | 1155.3  | 1141.1  | 1255.0  | 1997.4  | 11579.4 | 16997.9 | 21676.1 | 26144.7 | 16587.1 |
| 67.5° | 1078.0  | 1082.1  | 1012.9  | 953.9   | 974.3   | 1080.0  | 4568.3  | 9305.4  | 14347.7 | 19164.1 | 12022.8 |
| 70°   | 992.6   | 988.5   | 913.3   | 819.7   | 793.2   | 738.3   | 1452.3  | 3411.0  | 6856.5  | 9718.3  | 5591.4  |
| 72.5° | 878.7   | 880.7   | 844.1   | 722.1   | 659.0   | 516.6   | 673.2   | 994.6   | 2046.2  | 2648.2  | 1309.9  |
| 75°   | 779.0   | 768.8   | 724.1   | 646.8   | 543.1   | 339.7   | 333.6   | 443.4   | 630.5   | 626.5   | 282.7   |
| 77.5° | 563.4   | 553.2   | 567.5   | 530.9   | 417.0   | 219.7   | 166.8   | 213.6   | 256.3   | 248.1   | 79.3    |
| 80°   | 412.9   | 406.8   | 366.1   | 441.4   | 368.1   | 150.5   | 103.7   | 113.9   | 132.2   | 111.9   | 24.4    |
| 82.5° | 282.7   | 280.7   | 258.3   | 244.1   | 209.5   | 91.5    | 65.1    | 71.2    | 85.4    | 63.1    | 12.2    |
| 85°   | 44.7    | 50.8    | 187.1   | 148.5   | 124.1   | 40.7    | 44.7    | 48.8    | 57.0    | 34.6    | 4.1     |
| 87.5° | 0.0     | 0.0     | 87.5    | 77.3    | 24.4    | 16.3    | 26.4    | 28.5    | 28.5    | 18.3    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9702.1  | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 | 9702.1 |
| 2.5°  | 9738.7  | 9535.3 | 9159.0 | 8770.5 | 8410.5 | 7981.3 | 7686.4 | 7464.7 | 7208.4 | 7139.2 | 7289.8 |
| 5°    | 9805.8  | 9421.4 | 8611.8 | 7731.1 | 6903.3 | 5986.0 | 5284.3 | 4729.0 | 4226.6 | 4055.7 | 4210.3 |
| 7.5°  | 9911.6  | 9340.0 | 8020.0 | 6569.7 | 5129.7 | 3697.8 | 2717.4 | 2072.6 | 1661.8 | 1539.7 | 1604.8 |
| 10°   | 10017.3 | 9222.0 | 7334.5 | 5194.8 | 3225.9 | 1800.1 | 1171.6 | 935.6  | 848.2  | 829.9  | 840.0  |
| 12.5° | 10104.8 | 9063.4 | 6498.5 | 3693.7 | 1724.8 | 964.1  | 766.8  | 728.2  | 716.0  | 716.0  | 720.0  |
| 15°   | 10157.7 | 8823.4 | 5508.0 | 2349.2 | 992.6  | 728.2  | 669.2  | 657.0  | 657.0  | 659.0  | 663.1  |
| 17.5° | 10151.6 | 8518.3 | 4423.9 | 1421.7 | 742.4  | 644.8  | 610.2  | 600.0  | 598.0  | 602.1  | 604.1  |
| 20°   | 10076.3 | 8119.6 | 3335.7 | 937.7  | 646.8  | 587.8  | 553.2  | 534.9  | 532.9  | 537.0  | 541.0  |
| 22.5° | 9933.9  | 7627.4 | 2385.9 | 722.1  | 583.8  | 532.9  | 490.2  | 473.9  | 473.9  | 478.0  | 482.1  |
| 25°   | 9761.0  | 7025.3 | 1631.2 | 612.2  | 526.8  | 473.9  | 433.2  | 419.0  | 423.1  | 433.2  | 435.3  |
| 27.5° | 9545.4  | 6348.0 | 1108.5 | 524.8  | 457.6  | 414.9  | 384.4  | 374.3  | 384.4  | 398.7  | 402.7  |
| 30°   | 9360.3  | 5642.2 | 791.2  | 453.6  | 388.5  | 358.0  | 339.7  | 339.7  | 353.9  | 380.4  | 386.5  |
| 32.5° | 9218.0  | 4958.8 | 610.2  | 400.7  | 337.6  | 311.2  | 301.0  | 311.2  | 333.6  | 360.0  | 366.1  |
| 35°   | 9199.7  | 4395.4 | 516.6  | 358.0  | 301.0  | 274.6  | 270.5  | 288.8  | 311.2  | 331.5  | 335.6  |
| 37.5° | 9340.0  | 3874.7 | 465.8  | 323.4  | 268.5  | 244.1  | 240.0  | 262.4  | 284.8  | 309.2  | 315.3  |
| 40°   | 9606.5  | 3465.9 | 429.2  | 290.9  | 242.0  | 215.6  | 207.5  | 223.7  | 254.2  | 286.8  | 294.9  |
| 42.5° | 9952.2  | 3128.3 | 388.5  | 258.3  | 215.6  | 179.0  | 168.8  | 187.1  | 219.7  | 254.2  | 264.4  |
| 45°   | 10281.7 | 2837.4 | 343.7  | 221.7  | 181.0  | 138.3  | 134.2  | 158.6  | 174.9  | 209.5  | 217.6  |
| 47.5° | 10462.8 | 2581.1 | 305.1  | 181.0  | 140.3  | 111.9  | 111.9  | 118.0  | 134.2  | 174.9  | 183.1  |
| 50°   | 10401.7 | 2375.7 | 264.4  | 134.2  | 97.6   | 85.4   | 85.4   | 83.4   | 107.8  | 140.3  | 146.4  |
| 52.5° | 10279.7 | 2257.7 | 227.8  | 103.7  | 67.1   | 61.0   | 54.9   | 61.0   | 75.3   | 89.5   | 91.5   |
| 55°   | 10261.4 | 2237.4 | 191.2  | 83.4   | 46.8   | 40.7   | 30.5   | 30.5   | 30.5   | 28.5   | 24.4   |
| 57.5° | 10403.8 | 2269.9 | 160.7  | 67.1   | 34.6   | 26.4   | 16.3   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 10550.2 | 2304.5 | 138.3  | 46.8   | 24.4   | 14.2   | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 10306.1 | 2227.2 | 115.9  | 28.5   | 18.3   | 6.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 9053.2  | 1895.7 | 91.5   | 20.3   | 12.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 6439.6  | 1269.2 | 61.0   | 12.2   | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2939.1  | 530.9  | 38.6   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 628.5   | 164.8  | 26.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 128.1   | 120.0  | 10.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 40.7    | 189.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 24.4    | 136.3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 4.1     | 20.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0     | 0.0    | 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)