

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: P320972

Luminaire Tested: **GAN-SA8C-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8C-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58156 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

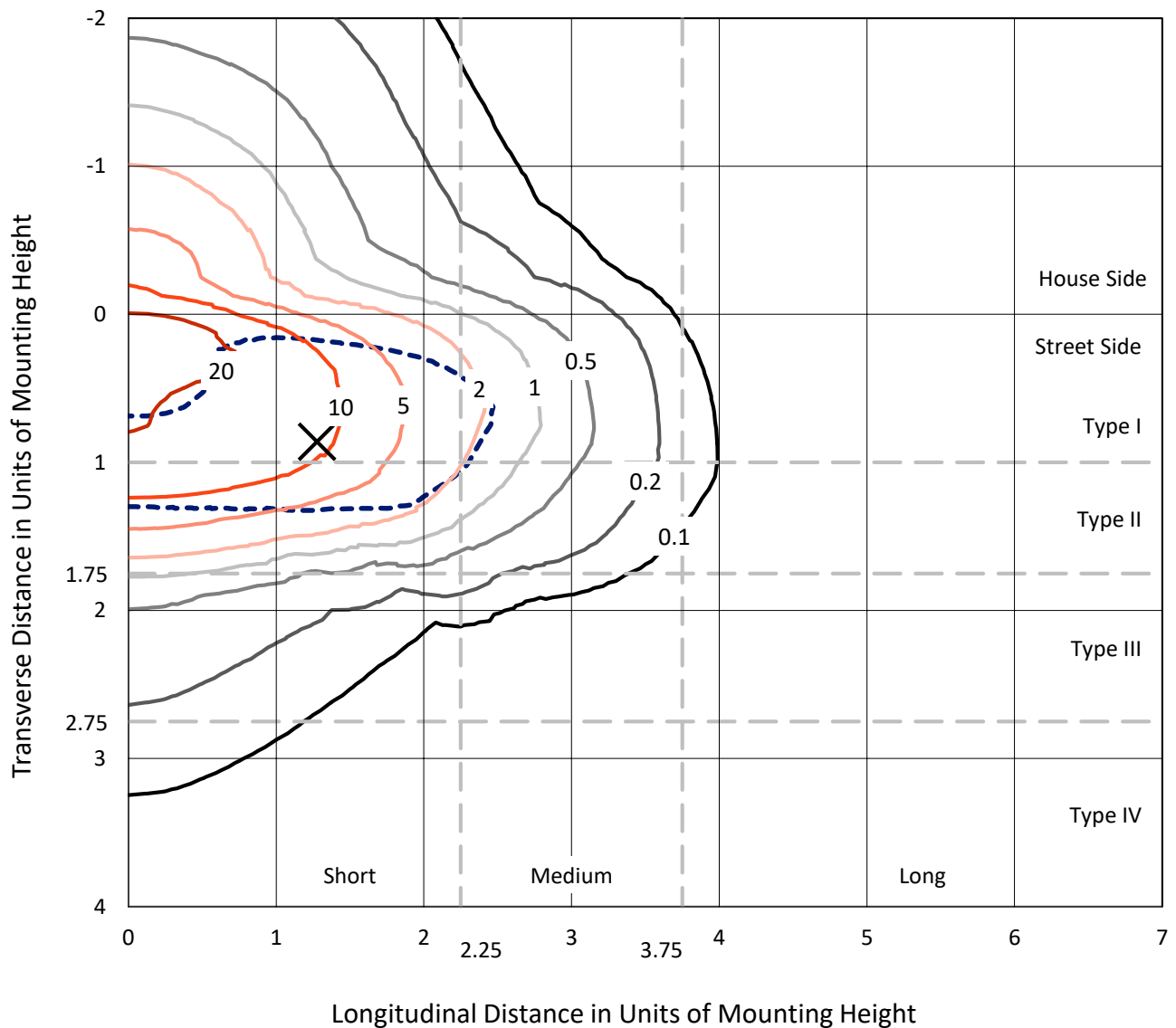
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

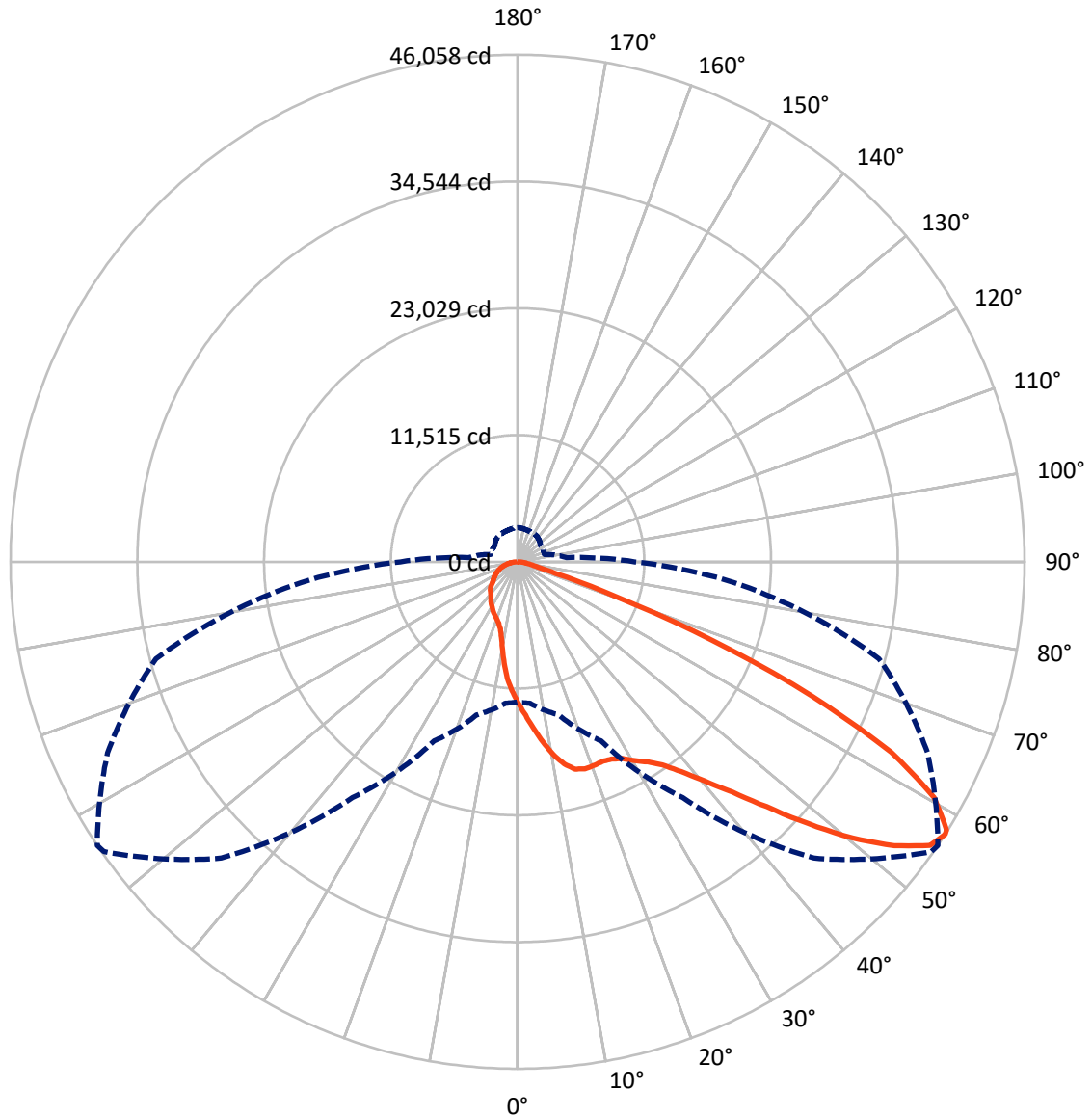
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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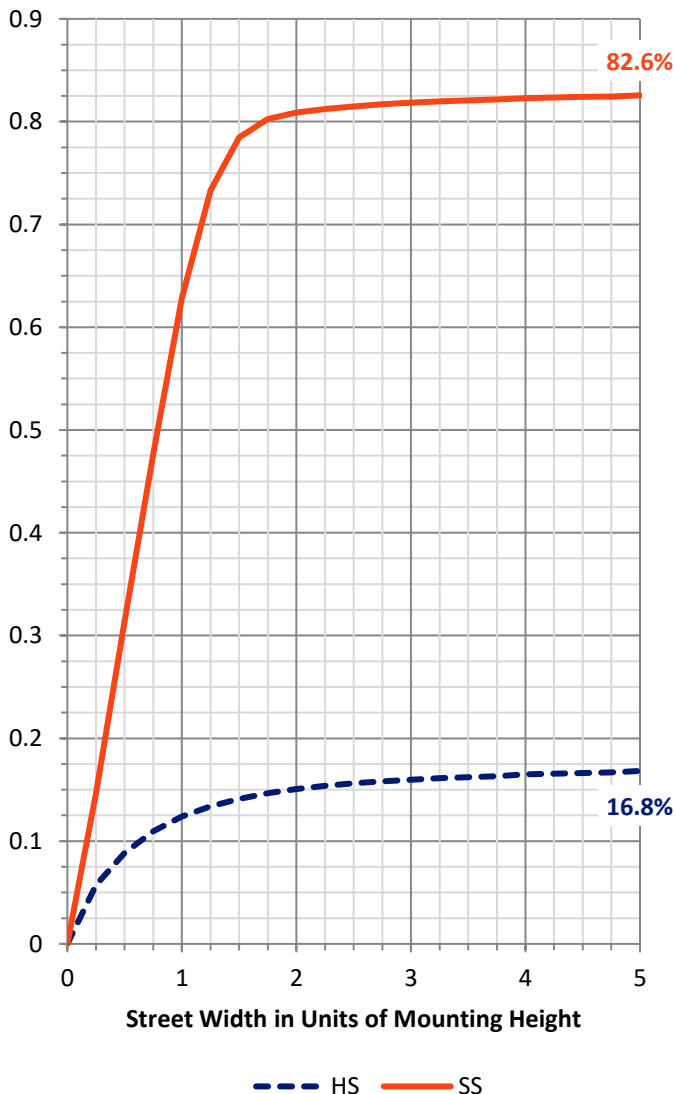
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10024.9  | 0.0    | 10024.9 |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 48131.2  | 0.0    | 48131.2 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 58156.0  | 0.0    | 58156.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1232.2  | 2.1       |
| 10°-20°   | 3483.7  | 6.0       |
| 20°-30°   | 5674.2  | 9.8       |
| 30°-40°   | 8482.3  | 14.6      |
| 40°-50°   | 12865.9 | 22.1      |
| 50°-60°   | 14420.4 | 24.8      |
| 60°-70°   | 8517.3  | 14.6      |
| 70°-80°   | 2790.6  | 4.8       |
| 80°-90°   | 689.4   | 1.2       |
| 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°    | 58156.0 | 100.0     |
| 0°-180°   | 58156.0 | 100.0     |

**Coefficient of Utilization**

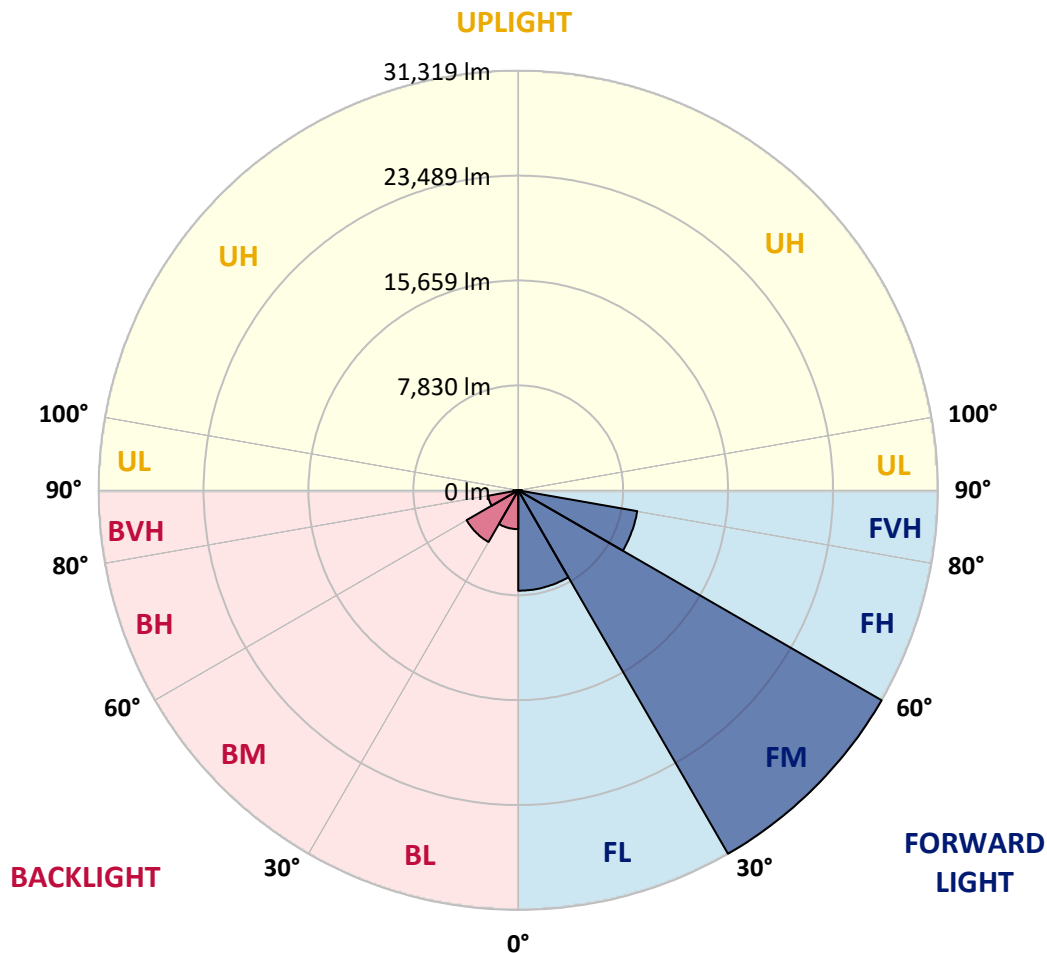


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 7491.4  | 12.9      |                         |      |          |
| FM (30°-60°)   | 31318.9 | 53.9      |                         |      |          |
| FH (60°-80°)   | 9017.3  | 15.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 303.6   | 0.5       |                         |      | G3/500   |
| BL (0°-30°)    | 2898.7  | 5.0       | B4/5000                 |      |          |
| BM (30°-60°)   | 4449.7  | 7.7       | B3/5000                 |      |          |
| BH (60°-80°)   | 2290.6  | 3.9       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 385.9   | 0.7       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 |
| 2.5°  | 14811.7 | 14947.6 | 14887.7 | 14679.8 | 14519.9 | 14294.1 | 14042.3 | 13966.3 | 13700.5 | 13402.7 | 13045.0 |
| 5°    | 17156.1 | 17088.1 | 16990.2 | 16666.4 | 16324.7 | 15927.0 | 15295.4 | 15195.5 | 14603.9 | 13930.3 | 13218.8 |
| 7.5°  | 18491.2 | 18485.2 | 18427.2 | 18237.4 | 17925.6 | 17405.9 | 16644.5 | 16526.5 | 15633.2 | 14549.9 | 13446.7 |
| 10°   | 18297.3 | 18283.3 | 18379.3 | 18577.1 | 18671.1 | 18563.1 | 17921.6 | 17803.7 | 16706.4 | 15235.4 | 13710.5 |
| 12.5° | 17196.1 | 17204.1 | 17358.0 | 17773.7 | 18339.3 | 19018.8 | 18914.9 | 18856.9 | 17819.6 | 16010.9 | 14030.3 |
| 15°   | 16338.7 | 16356.7 | 16478.6 | 16840.3 | 17507.9 | 18741.0 | 19518.5 | 19538.4 | 18896.9 | 16866.3 | 14404.0 |
| 17.5° | 15962.9 | 16000.9 | 16056.9 | 16310.7 | 16922.3 | 18187.4 | 19662.4 | 19770.3 | 19840.2 | 17753.7 | 14763.8 |
| 20°   | 16082.8 | 16118.8 | 16134.8 | 16296.7 | 16798.3 | 17851.6 | 19562.4 | 19756.3 | 20563.7 | 18589.1 | 15123.5 |
| 22.5° | 16620.5 | 16642.5 | 16652.5 | 16694.4 | 17084.2 | 17947.6 | 19496.5 | 19700.3 | 21087.4 | 19338.6 | 15395.3 |
| 25°   | 17511.9 | 17495.9 | 17431.9 | 17377.9 | 17639.8 | 18327.3 | 19648.4 | 19842.2 | 21513.1 | 20018.1 | 15573.2 |
| 27.5° | 18579.1 | 18559.1 | 18435.2 | 18287.3 | 18437.2 | 18918.9 | 20086.1 | 20240.0 | 21894.8 | 20653.7 | 15663.1 |
| 30°   | 19860.2 | 19808.3 | 19574.4 | 19398.5 | 19456.5 | 19806.3 | 20807.6 | 20947.5 | 22484.4 | 21375.2 | 15751.1 |
| 32.5° | 21341.2 | 21285.2 | 20947.5 | 20655.7 | 20655.7 | 20947.5 | 21551.1 | 21667.0 | 22984.1 | 22190.6 | 15893.0 |
| 35°   | 23195.9 | 23126.0 | 22686.3 | 22196.6 | 22058.7 | 22206.6 | 22564.4 | 22646.3 | 23883.4 | 23217.9 | 16150.8 |
| 37.5° | 25382.4 | 25288.5 | 24718.9 | 24063.3 | 23761.5 | 23753.5 | 24011.3 | 24179.2 | 25320.4 | 24567.0 | 16588.5 |
| 40°   | 27574.9 | 27508.9 | 27011.3 | 26495.6 | 25904.0 | 25714.2 | 26111.9 | 26163.9 | 27199.1 | 26241.8 | 17148.1 |
| 42.5° | 29269.7 | 29257.7 | 29165.8 | 29233.7 | 28628.1 | 28244.4 | 28556.2 | 28598.2 | 29493.5 | 28054.5 | 17743.7 |
| 45°   | 30165.1 | 30185.1 | 30630.8 | 31618.1 | 31841.9 | 31562.1 | 31716.0 | 31728.0 | 32115.7 | 29883.3 | 18289.3 |
| 47.5° | 29447.6 | 29551.5 | 30678.7 | 32887.2 | 34719.9 | 35649.3 | 35393.5 | 35541.3 | 34658.0 | 31454.2 | 18717.0 |
| 50°   | 26651.5 | 26779.4 | 28698.1 | 32321.6 | 36063.0 | 39604.5 | 39470.6 | 39436.6 | 36708.5 | 32605.4 | 18948.9 |
| 52.5° | 23187.9 | 23287.8 | 24870.8 | 29381.6 | 35077.7 | 41791.0 | 43020.2 | 42844.3 | 38531.3 | 33466.8 | 18992.8 |
| 55°   | 17913.6 | 18069.5 | 19586.4 | 23513.7 | 31092.4 | 40955.6 | 45630.4 | 45472.5 | 40192.1 | 33918.5 | 18940.9 |
| 57°   | 12735.2 | 12899.1 | 14406.0 | 17945.6 | 26155.9 | 38063.6 | 45890.2 | 46058.1 | 41089.5 | 33994.4 | 18998.8 |
| 57.5° | 11364.1 | 11532.0 | 13025.0 | 16462.6 | 24616.9 | 37018.3 | 45666.3 | 45946.1 | 41251.4 | 33982.4 | 19030.8 |
| 60°   | 5722.0  | 5786.0  | 6737.3  | 9189.6  | 15561.2 | 29927.2 | 42746.4 | 43467.9 | 41397.3 | 33394.8 | 19168.7 |
| 62.5° | 3557.5  | 3511.6  | 3481.6  | 4233.1  | 7570.7  | 19846.2 | 36720.5 | 38109.6 | 38605.2 | 31971.8 | 18834.9 |
| 65°   | 3127.8  | 3041.9  | 2712.1  | 2652.2  | 3343.7  | 9639.3  | 27652.8 | 29381.6 | 32639.4 | 29729.4 | 18039.5 |
| 67.5° | 2938.0  | 2854.0  | 2482.3  | 2258.4  | 2260.4  | 3821.3  | 17168.1 | 19114.7 | 25426.4 | 25938.0 | 16162.8 |
| 70°   | 2742.1  | 2666.2  | 2318.4  | 2054.6  | 1924.7  | 2116.5  | 7898.5  | 9375.5  | 16574.5 | 20387.9 | 13508.6 |
| 72.5° | 2490.3  | 2438.3  | 2108.5  | 1836.7  | 1698.8  | 1584.9  | 3023.9  | 3571.5  | 9595.3  | 13692.5 | 9381.5  |
| 75°   | 2226.5  | 2178.5  | 1896.7  | 1636.9  | 1469.0  | 1247.1  | 1702.8  | 1834.7  | 4874.6  | 7005.1  | 4618.8  |
| 77.5° | 1936.7  | 1908.7  | 1686.8  | 1447.0  | 1313.1  | 1033.3  | 1205.2  | 1269.1  | 2090.6  | 3003.9  | 2316.4  |
| 80°   | 1540.9  | 1594.9  | 1475.0  | 1289.1  | 1165.2  | 827.4   | 853.4   | 895.4   | 1217.2  | 1467.0  | 1315.1  |
| 82.5° | 1003.3  | 1097.2  | 1155.2  | 1047.3  | 959.3   | 651.5   | 613.6   | 631.6   | 793.4   | 895.4   | 571.6   |
| 85°   | 417.7   | 469.7   | 759.5   | 685.5   | 637.6   | 475.7   | 411.7   | 419.7   | 491.7   | 509.6   | 233.8   |
| 87.5° | 185.9   | 197.9   | 333.8   | 313.8   | 269.8   | 163.9   | 175.9   | 191.9   | 261.8   | 247.8   | 89.9    |
| 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°    | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 | 12899.1 |
| 2.5°  | 12911.0 | 12743.2 | 12455.4 | 12137.6 | 11877.8 | 11669.9 | 11460.1 | 11316.2 | 11148.3 | 11058.3 | 11012.4 |
| 5°    | 12921.0 | 12591.3 | 11985.7 | 11364.1 | 10808.5 | 10300.9 | 9817.2  | 9445.4  | 9097.7  | 8909.8  | 8857.9  |
| 7.5°  | 12963.0 | 12467.4 | 11488.0 | 10464.7 | 9477.4  | 8576.1  | 7880.5  | 7444.8  | 7131.1  | 6991.2  | 6951.2  |
| 10°   | 12997.0 | 12321.5 | 10872.5 | 9357.5  | 8014.4  | 7101.1  | 6561.4  | 6317.6  | 6209.7  | 6191.7  | 6173.7  |
| 12.5° | 13076.9 | 12171.6 | 10224.9 | 8202.3  | 6877.2  | 6245.7  | 6057.8  | 6041.8  | 6071.8  | 6115.8  | 6115.8  |
| 15°   | 13202.8 | 12023.7 | 9485.4  | 7211.0  | 6153.7  | 5931.9  | 5969.9  | 6057.8  | 6139.7  | 6207.7  | 6217.7  |
| 17.5° | 13294.8 | 11841.8 | 8690.0  | 6417.5  | 5768.0  | 5828.0  | 5963.9  | 6087.8  | 6171.7  | 6237.7  | 6243.7  |
| 20°   | 13360.7 | 11560.0 | 7840.6  | 5812.0  | 5546.2  | 5732.0  | 5901.9  | 6011.8  | 6069.8  | 6135.7  | 6145.7  |
| 22.5° | 13326.8 | 11182.2 | 7087.1  | 5378.3  | 5366.3  | 5592.1  | 5754.0  | 5885.9  | 5841.9  | 5778.0  | 5820.0  |
| 25°   | 13162.9 | 10662.6 | 6311.6  | 5054.5  | 5176.4  | 5404.3  | 5604.1  | 5516.2  | 5368.3  | 5340.3  | 5356.3  |
| 27.5° | 12871.1 | 9999.1  | 5594.1  | 4754.7  | 4956.6  | 5230.4  | 5218.4  | 5130.4  | 5078.5  | 5042.5  | 5064.5  |
| 30°   | 12557.3 | 9279.6  | 4966.6  | 4492.9  | 4712.7  | 4938.6  | 4892.6  | 4890.6  | 4838.6  | 4780.7  | 4808.7  |
| 32.5° | 12247.5 | 8556.1  | 4468.9  | 4277.0  | 4528.9  | 4558.8  | 4658.8  | 4688.7  | 4586.8  | 4464.9  | 4456.9  |
| 35°   | 11977.7 | 7872.5  | 4091.2  | 4081.2  | 4307.0  | 4311.0  | 4456.9  | 4414.9  | 4161.1  | 4035.2  | 4035.2  |
| 37.5° | 11775.8 | 7191.0  | 3803.4  | 3905.3  | 4015.2  | 4119.1  | 4193.1  | 4019.2  | 3977.2  | 3907.3  | 3905.3  |
| 40°   | 11687.9 | 6591.4  | 3623.5  | 3771.4  | 3809.4  | 3941.3  | 3751.4  | 3819.4  | 3839.3  | 3803.4  | 3803.4  |
| 42.5° | 11596.0 | 6069.8  | 3467.6  | 3669.5  | 3663.5  | 3645.5  | 3549.5  | 3637.5  | 3717.4  | 3719.4  | 3713.4  |
| 45°   | 11504.0 | 5620.1  | 3329.7  | 3451.6  | 3535.5  | 3341.7  | 3359.7  | 3453.6  | 3565.5  | 3605.5  | 3605.5  |
| 47.5° | 11402.1 | 5264.3  | 3203.8  | 3221.8  | 3351.7  | 3221.8  | 3207.8  | 3279.7  | 3411.6  | 3475.6  | 3489.6  |
| 50°   | 11178.2 | 4944.6  | 3059.9  | 3019.9  | 3055.9  | 3099.9  | 3111.8  | 3145.8  | 3291.7  | 3393.6  | 3417.6  |
| 52.5° | 10868.5 | 4658.8  | 2876.0  | 2834.0  | 2834.0  | 2999.9  | 3055.9  | 3065.9  | 3189.8  | 3311.7  | 3335.7  |
| 55°   | 10610.6 | 4476.9  | 2686.1  | 2678.1  | 2670.1  | 2894.0  | 2989.9  | 3005.9  | 3091.9  | 3187.8  | 3199.8  |
| 57°   | 10628.6 | 4462.9  | 2540.2  | 2548.2  | 2546.2  | 2786.1  | 2928.0  | 2961.9  | 3005.9  | 3087.9  | 3101.8  |
| 57.5° | 10638.6 | 4472.9  | 2508.3  | 2512.3  | 2510.3  | 2756.1  | 2910.0  | 2948.0  | 2981.9  | 3067.9  | 3081.9  |
| 60°   | 10788.5 | 4498.9  | 2378.4  | 2334.4  | 2344.4  | 2596.2  | 2808.1  | 2856.0  | 2878.0  | 2991.9  | 3009.9  |
| 62.5° | 10566.7 | 4383.0  | 2274.4  | 2168.5  | 2168.5  | 2428.3  | 2666.2  | 2742.1  | 2776.1  | 2930.0  | 2959.9  |
| 65°   | 9923.1  | 4057.2  | 2152.5  | 1980.6  | 2000.6  | 2260.4  | 2496.3  | 2620.2  | 2672.1  | 2864.0  | 2896.0  |
| 67.5° | 8929.8  | 3679.4  | 2022.6  | 1812.7  | 1832.7  | 2084.6  | 2320.4  | 2454.3  | 2536.2  | 2792.1  | 2818.0  |
| 70°   | 7636.7  | 3217.8  | 1846.7  | 1634.9  | 1658.8  | 1892.7  | 2112.5  | 2264.4  | 2386.3  | 2724.1  | 2732.1  |
| 72.5° | 5630.1  | 2638.2  | 1600.9  | 1439.0  | 1465.0  | 1668.8  | 1902.7  | 2078.6  | 2242.4  | 2554.2  | 2550.2  |
| 75°   | 3347.7  | 2062.6  | 1329.1  | 1241.1  | 1259.1  | 1449.0  | 1712.8  | 1926.7  | 2172.5  | 2488.3  | 2526.2  |
| 77.5° | 2030.6  | 1552.9  | 1083.2  | 1039.3  | 1061.3  | 1255.1  | 1576.9  | 1804.7  | 2142.5  | 2346.4  | 2334.4  |
| 80°   | 1227.1  | 1109.2  | 865.4   | 837.4   | 859.4   | 1073.3  | 1459.0  | 1712.8  | 1872.7  | 2004.6  | 2004.6  |
| 82.5° | 641.6   | 677.5   | 635.6   | 613.6   | 643.6   | 871.4   | 1327.1  | 1495.0  | 1654.9  | 1421.0  | 1327.1  |
| 85°   | 261.8   | 353.8   | 385.7   | 383.7   | 401.7   | 603.6   | 1145.2  | 1279.1  | 1067.3  | 1013.3  | 1037.3  |
| 87.5° | 87.9    | 149.9   | 187.9   | 161.9   | 169.9   | 379.7   | 793.4   | 617.6   | 733.5   | 511.6   | 485.7   |
| 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)