

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: P317742

Luminaire Tested: **GAN-SA8D-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57902 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

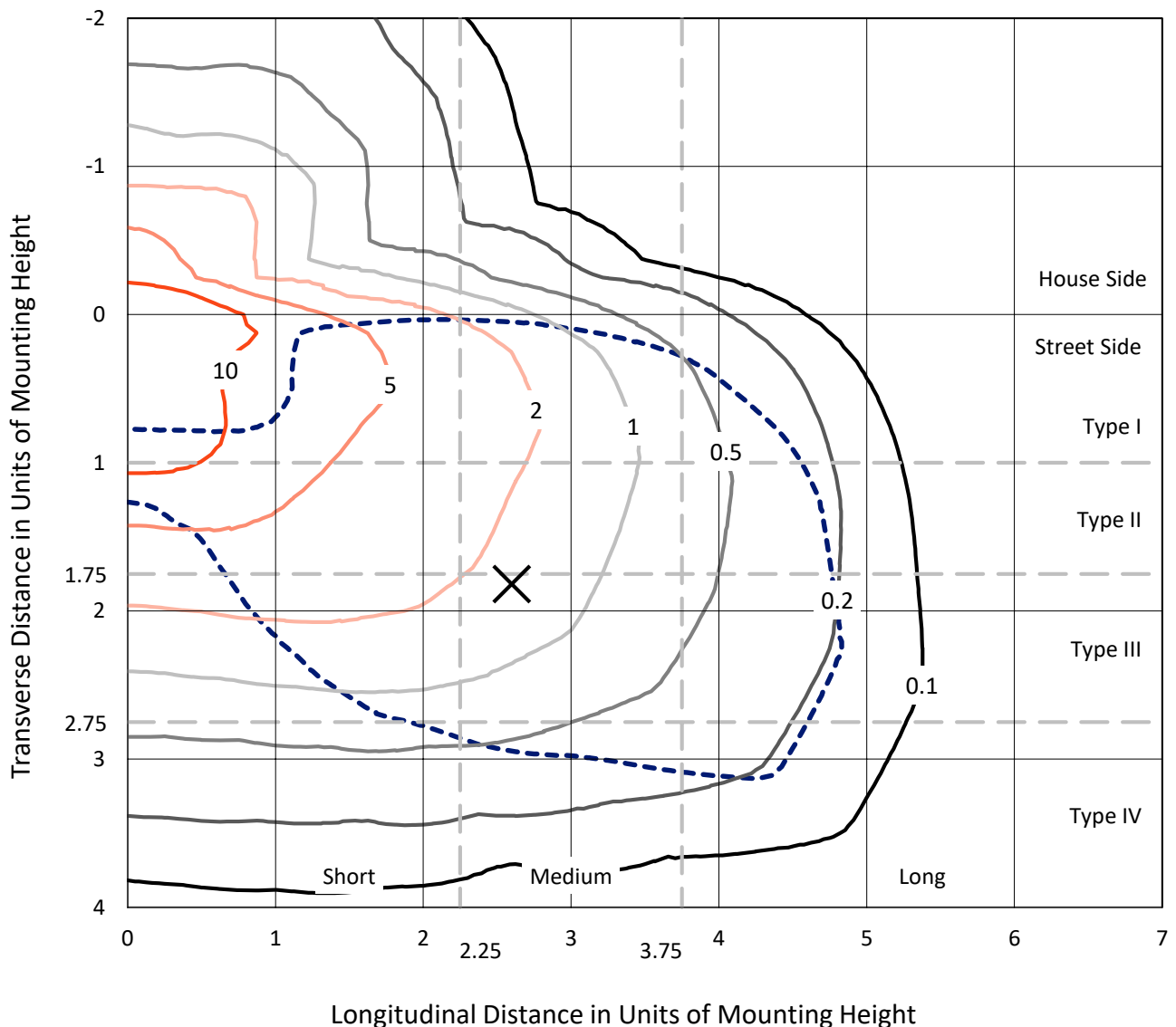
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

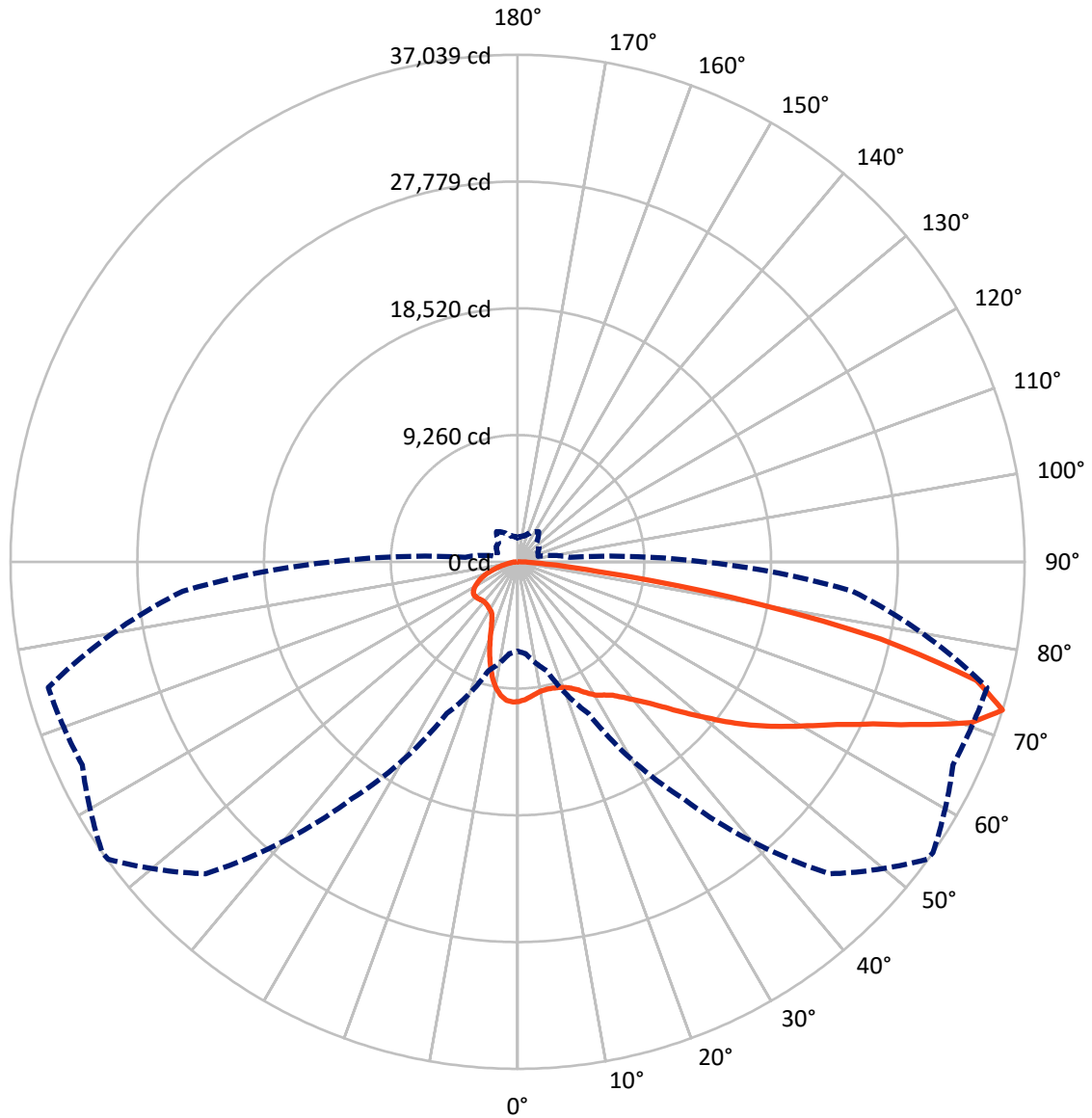
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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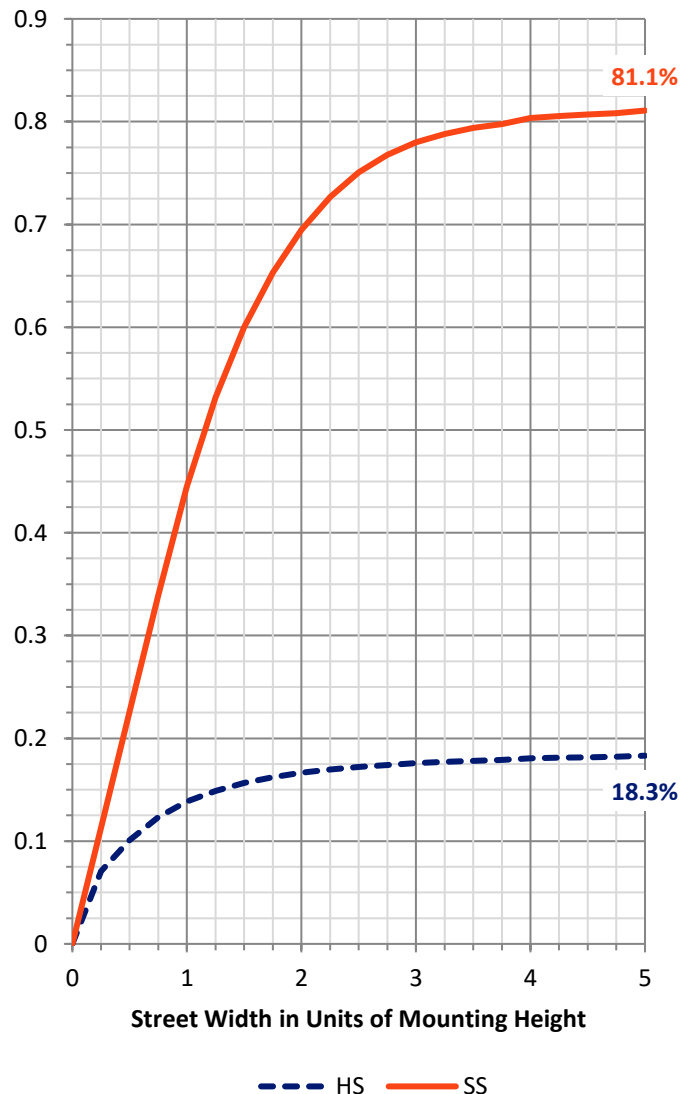
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10762.1  | 0.0    | 10762.1 |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 47139.9  | 0.0    | 47139.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 57902.0  | 0.0    | 57902.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 924.1   | 1.6       |
| 10°-20°   | 2460.4  | 4.2       |
| 20°-30°   | 4056.5  | 7.0       |
| 30°-40°   | 6000.6  | 10.4      |
| 40°-50°   | 8375.6  | 14.5      |
| 50°-60°   | 10905.3 | 18.8      |
| 60°-70°   | 13402.3 | 23.1      |
| 70°-80°   | 10505.8 | 18.1      |
| 80°-90°   | 1271.4  | 2.2       |
| 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°    | 57902.0 | 100.0     |
| 0°-180°   | 57902.0 | 100.0     |

**Coefficient of Utilization**

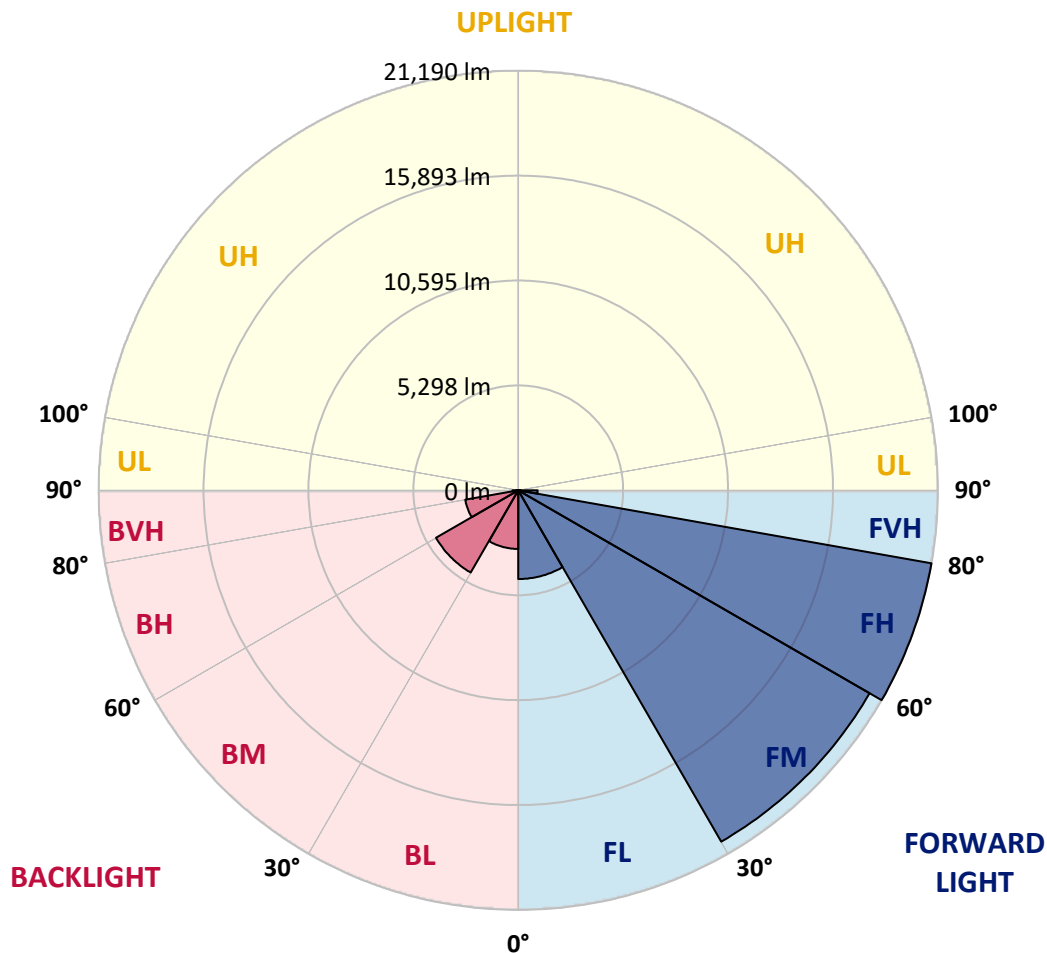


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4479.9  | 7.7       |                         |      |         |
| FM (30°-60°)   | 20486.9 | 35.4      |                         |      |         |
| FH (60°-80°)   | 21190.2 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 982.9   | 1.7       |                         |      | G5      |
| BL (0°-30°)    | 2961.1  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 4794.7  | 8.3       | B3/5000                 |      |         |
| BH (60°-80°)   | 2717.9  | 4.7       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 288.4   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 |
| 2.5°  | 9880.2  | 9856.7  | 9886.1  | 9927.1  | 9972.1  | 10032.7 | 10067.9 | 10083.6 | 10144.2 | 10167.7 | 10218.5 |
| 5°    | 9422.6  | 9410.8  | 9459.7  | 9530.1  | 9629.9  | 9770.7  | 9884.1  | 9905.6  | 10066.0 | 10179.4 | 10283.1 |
| 7.5°  | 9090.1  | 9090.1  | 9146.8  | 9230.9  | 9342.4  | 9532.1  | 9692.5  | 9721.8  | 9993.6  | 10238.1 | 10429.7 |
| 10°   | 8826.1  | 8835.9  | 8902.3  | 9002.1  | 9133.1  | 9334.6  | 9547.7  | 9581.0  | 9974.1  | 10375.0 | 10680.1 |
| 12.5° | 8650.1  | 8673.5  | 8734.2  | 8824.1  | 8986.4  | 9230.9  | 9500.8  | 9545.8  | 10015.1 | 10570.6 | 10981.3 |
| 15°   | 8761.5  | 8800.7  | 8806.5  | 8843.7  | 8933.6  | 9199.6  | 9528.2  | 9575.1  | 10103.1 | 10770.0 | 11323.5 |
| 17.5° | 9250.5  | 9264.2  | 9203.5  | 9125.3  | 9082.3  | 9252.4  | 9610.3  | 9659.2  | 10208.8 | 10967.6 | 11652.1 |
| 20°   | 9993.6  | 9985.8  | 9854.8  | 9643.6  | 9424.5  | 9451.9  | 9745.3  | 9796.1  | 10351.5 | 11141.6 | 11980.6 |
| 22.5° | 10932.4 | 10905.0 | 10703.5 | 10314.4 | 9940.8  | 9784.4  | 9981.9  | 10024.9 | 10566.6 | 11390.0 | 12332.6 |
| 25°   | 12070.6 | 12010.0 | 11744.0 | 11221.8 | 10672.3 | 10269.4 | 10337.8 | 10378.9 | 10879.6 | 11667.7 | 12655.3 |
| 27.5° | 13271.4 | 13210.8 | 12872.4 | 12240.7 | 11509.3 | 10881.5 | 10828.7 | 10863.9 | 11235.5 | 11873.1 | 12893.9 |
| 30°   | 14526.9 | 14462.4 | 14153.4 | 13445.4 | 12397.2 | 11515.2 | 11286.3 | 11300.0 | 11485.8 | 11984.5 | 13089.5 |
| 32.5° | 15788.4 | 15727.7 | 15381.6 | 14560.2 | 13361.3 | 12195.7 | 11616.9 | 11599.3 | 11636.4 | 12099.9 | 13310.5 |
| 35°   | 17067.4 | 17090.9 | 16686.0 | 15776.6 | 14429.2 | 12952.6 | 12008.0 | 11970.8 | 11888.7 | 12336.6 | 13623.4 |
| 37.5° | 18436.4 | 18420.7 | 17896.6 | 16946.1 | 15545.9 | 13774.0 | 12569.3 | 12563.4 | 12279.8 | 12784.4 | 14114.3 |
| 40°   | 19351.7 | 19361.4 | 19042.7 | 18143.0 | 16674.3 | 14683.4 | 13289.0 | 13275.3 | 12903.7 | 13455.2 | 14757.7 |
| 42.5° | 19709.5 | 19774.1 | 19856.2 | 19285.2 | 17855.5 | 15737.5 | 14147.5 | 14128.0 | 13774.0 | 14417.4 | 15514.6 |
| 45°   | 19735.0 | 19864.0 | 20372.5 | 20300.2 | 19052.4 | 16944.2 | 15244.7 | 15189.9 | 14935.7 | 15696.5 | 16418.1 |
| 47.5° | 19515.9 | 19648.9 | 20493.8 | 20904.5 | 20122.2 | 18217.3 | 16527.6 | 16484.6 | 16265.6 | 17296.2 | 17396.0 |
| 50°   | 19036.8 | 19163.9 | 20243.5 | 21199.8 | 21002.3 | 19441.6 | 18006.1 | 17892.7 | 17775.4 | 19144.4 | 18514.6 |
| 52.5° | 18139.1 | 18383.6 | 19909.0 | 21270.2 | 21528.3 | 20529.0 | 19560.9 | 19486.6 | 19551.1 | 21094.2 | 19635.2 |
| 55°   | 16013.3 | 16287.1 | 19046.6 | 21211.5 | 21917.5 | 21442.3 | 21115.7 | 21111.8 | 21446.2 | 23139.8 | 20838.0 |
| 57.5° | 14822.3 | 15015.9 | 17290.3 | 21111.8 | 22379.1 | 22349.7 | 22654.8 | 22692.0 | 23343.2 | 25367.4 | 22097.5 |
| 60°   | 14149.5 | 14352.9 | 16400.5 | 20742.2 | 23094.9 | 23523.2 | 24225.3 | 24299.6 | 25271.6 | 27833.5 | 23613.1 |
| 62.5° | 13537.4 | 13760.3 | 15849.0 | 19989.2 | 23937.8 | 25201.2 | 26106.6 | 26173.1 | 27313.3 | 30368.1 | 25077.9 |
| 65°   | 12491.1 | 12743.3 | 15041.3 | 19494.4 | 24704.4 | 27389.6 | 28498.5 | 28543.4 | 29658.2 | 33024.0 | 26198.6 |
| 67.5° | 11012.5 | 11243.3 | 13517.8 | 18401.2 | 25271.6 | 30047.4 | 31678.4 | 31703.9 | 31983.5 | 34899.5 | 26771.6 |
| 70°   | 9285.7  | 9373.7  | 11347.0 | 16144.3 | 24600.8 | 32533.1 | 35163.5 | 35169.4 | 34103.5 | 36100.3 | 26677.7 |
| 72.5° | 6524.2  | 6731.5  | 8237.4  | 12221.2 | 21141.1 | 32229.9 | 36972.5 | 37039.0 | 35089.2 | 35494.0 | 24546.0 |
| 75°   | 4001.4  | 4220.4  | 5167.0  | 7406.2  | 13412.2 | 25347.8 | 34160.2 | 34621.8 | 33241.0 | 31647.1 | 20051.8 |
| 77.5° | 2675.4  | 2757.5  | 3371.6  | 4318.2  | 6076.4  | 14583.7 | 26263.1 | 27131.4 | 27614.5 | 23079.2 | 12823.5 |
| 80°   | 1492.2  | 1648.7  | 2235.4  | 2683.2  | 2702.8  | 5794.7  | 15747.3 | 15950.7 | 15364.0 | 9189.8  | 3956.4  |
| 82.5° | 790.1   | 876.2   | 1492.2  | 1576.3  | 1474.6  | 1940.1  | 5869.1  | 5874.9  | 4908.8  | 2464.2  | 1175.4  |
| 85°   | 612.1   | 684.5   | 1022.8  | 962.2   | 752.9   | 860.5   | 1936.1  | 2041.8  | 1670.2  | 1009.1  | 383.3   |
| 87.5° | 305.1   | 379.4   | 694.3   | 610.2   | 295.3   | 246.4   | 692.3   | 739.3   | 659.1   | 395.1   | 138.9   |
| 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°    | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 | 10212.7 |
| 2.5°  | 10238.1 | 10255.7 | 10277.2 | 10253.7 | 10245.9 | 10214.6 | 10161.8 | 10150.1 | 10122.7 | 10124.7 | 10140.3 |
| 5°    | 10328.1 | 10357.4 | 10345.7 | 10255.7 | 10148.1 | 9997.5  | 9841.1  | 9708.1  | 9620.1  | 9614.2  | 9608.4  |
| 7.5°  | 10500.2 | 10519.7 | 10427.8 | 10171.6 | 9870.4  | 9522.3  | 9193.7  | 8906.3  | 8732.2  | 8689.2  | 8679.4  |
| 10°   | 10770.0 | 10766.1 | 10513.8 | 9997.5  | 9397.1  | 8775.2  | 8247.2  | 7848.2  | 7615.5  | 7547.0  | 7529.4  |
| 12.5° | 11071.2 | 11026.2 | 10543.2 | 9680.7  | 8728.3  | 7865.8  | 7197.0  | 6753.0  | 6510.5  | 6432.3  | 6412.7  |
| 15°   | 11382.2 | 11270.7 | 10470.8 | 9207.4  | 7906.9  | 6886.0  | 6183.9  | 5773.2  | 5642.2  | 5599.2  | 5591.3  |
| 17.5° | 11671.6 | 11456.5 | 10263.5 | 8566.0  | 6970.1  | 5910.1  | 5362.5  | 5198.3  | 5229.5  | 5286.3  | 5288.2  |
| 20°   | 11955.2 | 11581.7 | 9931.0  | 7756.3  | 5982.5  | 5106.3  | 4920.5  | 5041.8  | 5190.4  | 5305.8  | 5321.5  |
| 22.5° | 12234.9 | 11669.7 | 9502.7  | 6821.5  | 5098.5  | 4654.6  | 4785.6  | 5006.6  | 5176.7  | 5301.9  | 5323.4  |
| 25°   | 12469.5 | 11691.2 | 8912.1  | 5824.1  | 4484.4  | 4484.4  | 4721.1  | 4930.3  | 5098.5  | 5221.7  | 5243.2  |
| 27.5° | 12555.6 | 11546.5 | 8079.0  | 4901.0  | 4175.4  | 4406.2  | 4631.1  | 4805.2  | 4947.9  | 5079.0  | 5102.4  |
| 30°   | 12588.8 | 11278.5 | 7116.8  | 4159.8  | 4048.3  | 4322.1  | 4509.8  | 4658.5  | 4793.4  | 4916.6  | 4938.1  |
| 32.5° | 12594.7 | 10955.8 | 6095.9  | 3739.3  | 3960.3  | 4234.1  | 4359.3  | 4490.3  | 4635.0  | 4683.9  | 4691.7  |
| 35°   | 12631.9 | 10574.5 | 5020.3  | 3524.2  | 3878.2  | 4152.0  | 4251.7  | 4345.6  | 4110.9  | 4128.5  | 4144.1  |
| 37.5° | 12739.4 | 10197.0 | 4120.7  | 3402.9  | 3825.3  | 4108.9  | 4228.2  | 3887.9  | 3704.1  | 3661.1  | 3655.2  |
| 40°   | 12940.9 | 9794.1  | 3453.8  | 3305.1  | 3805.8  | 4130.4  | 4077.6  | 3629.8  | 3313.0  | 3076.3  | 3041.1  |
| 42.5° | 13220.5 | 9360.0  | 3027.4  | 3240.6  | 3819.5  | 4234.1  | 3868.4  | 3381.4  | 2855.3  | 2702.8  | 2683.2  |
| 45°   | 13535.4 | 8904.3  | 2796.7  | 3195.6  | 3866.4  | 4314.3  | 3825.3  | 3050.9  | 2642.2  | 2526.8  | 2517.0  |
| 47.5° | 13840.5 | 8346.9  | 2677.4  | 3176.1  | 3931.0  | 4249.7  | 3643.5  | 2949.2  | 2540.5  | 2479.8  | 2485.7  |
| 50°   | 14190.6 | 7844.3  | 2605.0  | 3154.5  | 3987.7  | 4208.7  | 3438.1  | 2896.4  | 2501.3  | 2575.7  | 2653.9  |
| 52.5° | 14485.9 | 7324.1  | 2540.5  | 3111.5  | 4009.2  | 4136.3  | 3385.3  | 2906.2  | 2501.3  | 2644.1  | 2718.4  |
| 55°   | 14835.9 | 6931.0  | 2466.1  | 3021.6  | 3968.1  | 3931.0  | 3348.2  | 2964.8  | 2530.7  | 2440.7  | 2448.5  |
| 57.5° | 15287.7 | 6801.9  | 2384.0  | 2880.7  | 3831.2  | 3631.7  | 3330.6  | 3021.6  | 2513.1  | 2456.4  | 2475.9  |
| 60°   | 15913.5 | 6938.8  | 2350.8  | 2696.9  | 3618.0  | 3397.1  | 3332.5  | 2992.2  | 2389.9  | 2292.1  | 2294.0  |
| 62.5° | 16510.0 | 7091.4  | 2348.8  | 2581.5  | 3356.0  | 3187.8  | 3287.5  | 2896.4  | 2327.3  | 2270.6  | 2292.1  |
| 65°   | 16705.6 | 6936.9  | 2254.9  | 2452.4  | 3060.7  | 2937.5  | 3205.4  | 2794.7  | 2280.3  | 2194.3  | 2190.4  |
| 67.5° | 16443.5 | 6457.7  | 2065.2  | 2243.2  | 2722.3  | 2646.1  | 3097.8  | 2673.4  | 2206.0  | 2135.6  | 2123.9  |
| 70°   | 15665.2 | 5388.0  | 1830.5  | 1967.4  | 2337.1  | 2317.5  | 2927.7  | 2532.6  | 2106.3  | 2045.7  | 1994.8  |
| 72.5° | 13570.6 | 3839.0  | 1543.0  | 1636.9  | 1902.9  | 1965.5  | 2693.0  | 2348.8  | 1965.5  | 1834.4  | 1756.2  |
| 75°   | 11145.5 | 2841.6  | 1267.3  | 1286.9  | 1445.3  | 1615.4  | 2370.3  | 2133.7  | 1799.2  | 1576.3  | 1515.7  |
| 77.5° | 6825.4  | 1738.6  | 1009.1  | 1017.0  | 1036.5  | 1288.8  | 1951.8  | 1893.1  | 1588.0  | 1314.2  | 1271.2  |
| 80°   | 2209.9  | 948.5   | 729.5   | 766.6   | 708.0   | 944.6   | 1509.8  | 1611.5  | 1363.1  | 1099.1  | 1052.2  |
| 82.5° | 841.0   | 553.5   | 492.8   | 518.3   | 490.9   | 633.6   | 1101.1  | 1290.8  | 1116.7  | 903.5   | 735.3   |
| 85°   | 406.8   | 312.9   | 291.4   | 326.6   | 303.1   | 324.6   | 704.1   | 950.5   | 846.8   | 588.7   | 547.6   |
| 87.5° | 144.7   | 138.9   | 111.5   | 150.6   | 129.1   | 115.4   | 215.1   | 479.1   | 559.3   | 404.8   | 361.8   |
| 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)