

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: P476537

Luminaire Tested: **IFLD-S-SA6E-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

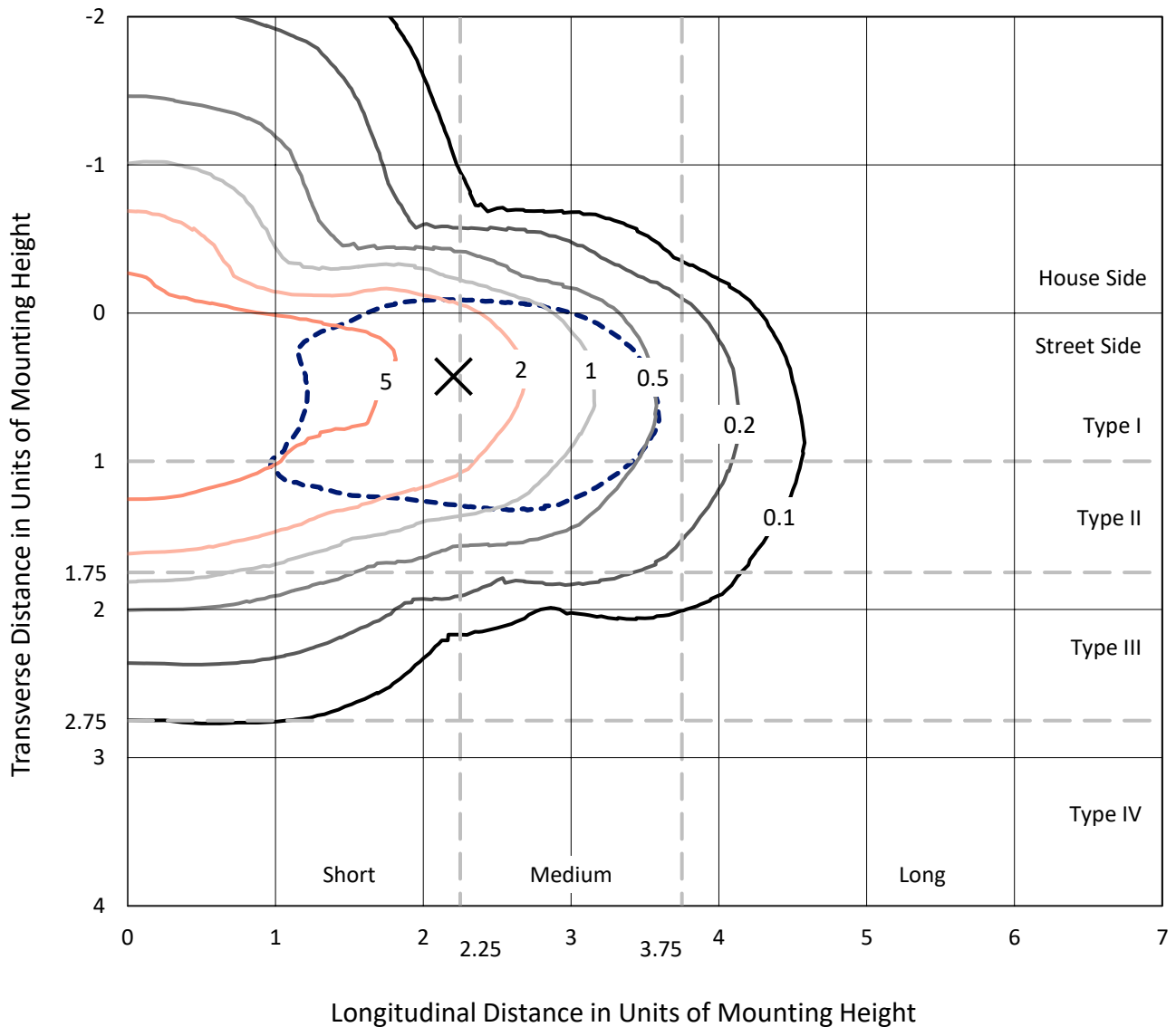
Lumens per Lamp: N/A
Luminaire Lumens: 48124.4 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
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

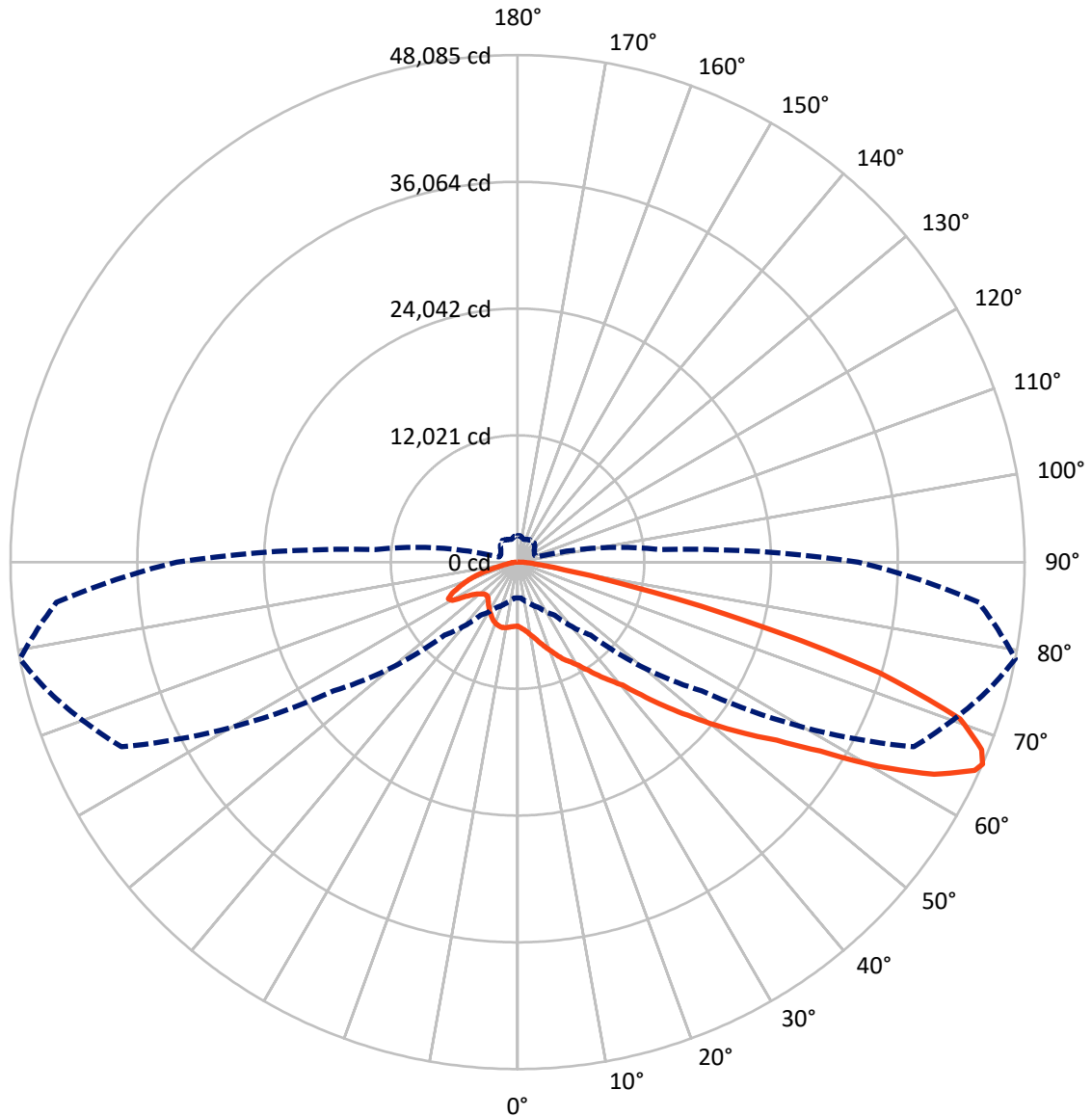
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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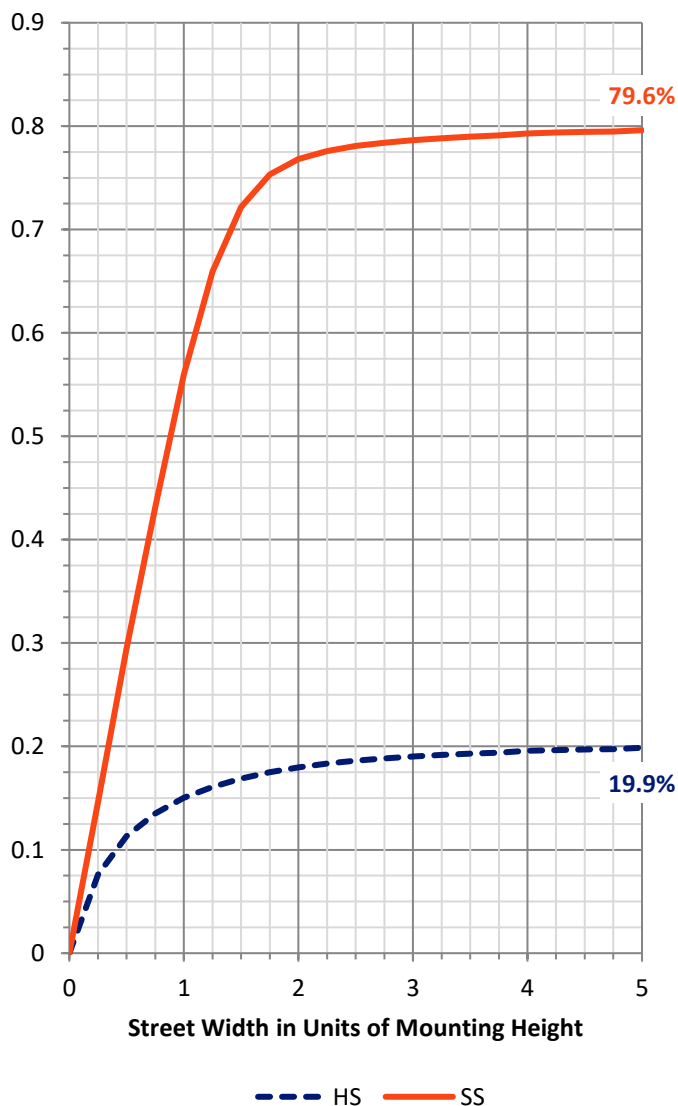
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9718.0 | 0.0 | 9718.0 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 38406.3 | 0.0 | 38406.3 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 48124.4 | 0.0 | 48124.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 597.5 | 1.2 |
| 10°-20° | 1845.1 | 3.8 |
| 20°-30° | 3167.2 | 6.6 |
| 30°-40° | 4892.7 | 10.2 |
| 40°-50° | 7836.9 | 16.3 |
| 50°-60° | 11701.1 | 24.3 |
| 60°-70° | 12022.9 | 25.0 |
| 70°-80° | 5329.6 | 11.1 |
| 80°-90° | 731.3 | 1.5 |
| 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° | 48124.4 | 100.0 |
| 0°-180° | 48124.4 | 100.0 |

Coefficient of Utilization



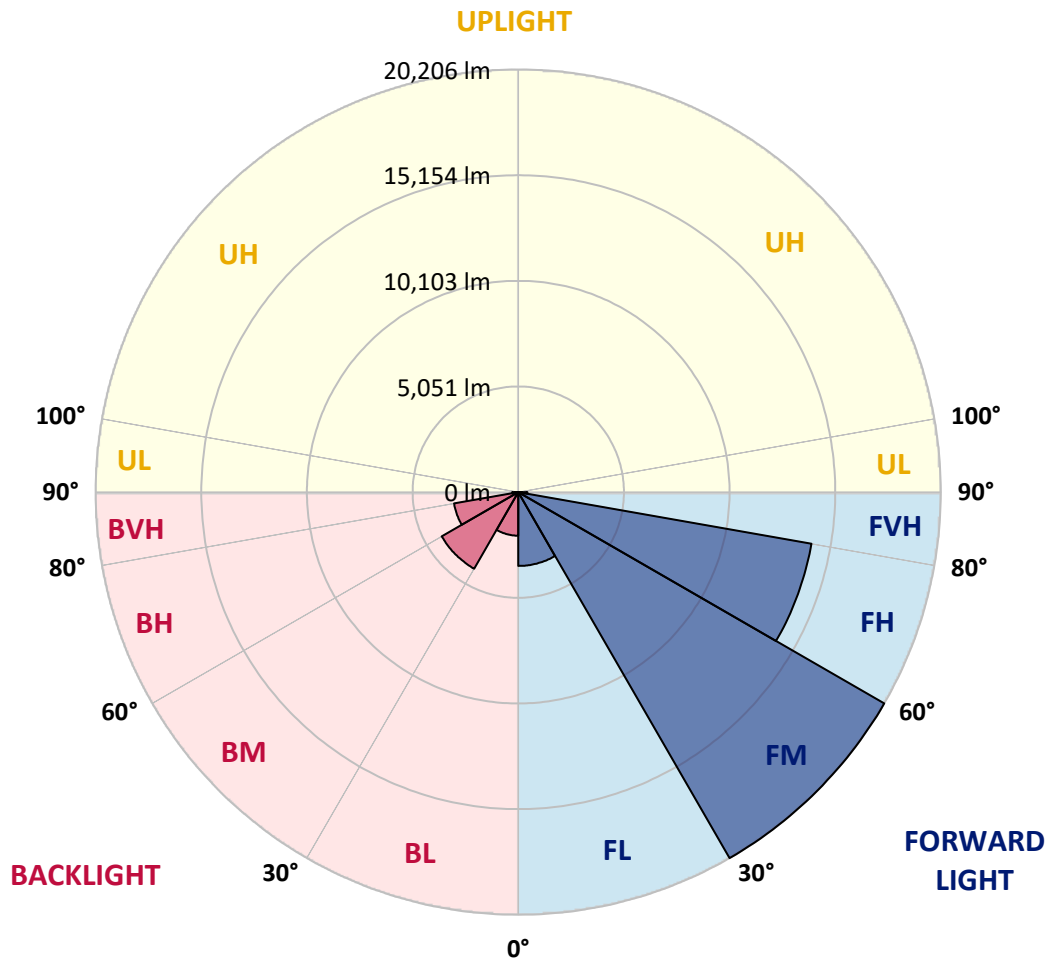
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3527.8 | 7.3 | | | |
| FM (30°-60°) | 20205.8 | 42.0 | | | |
| FH (60°-80°) | 14234.1 | 29.6 | | | G5 |
| FVH (80°-90°) | 438.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2082.1 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 4225.0 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 3118.3 | 6.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 292.7 | 0.6 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 |
| 2.5° | 6463.2 | 6468.5 | 6468.5 | 6447.3 | 6452.6 | 6468.5 | 6410.3 | 6283.2 | 6283.2 | 6262.0 | 6225.0 |
| 5° | 6860.2 | 6833.7 | 6796.7 | 6802.0 | 6780.8 | 6780.8 | 6717.3 | 6595.5 | 6489.7 | 6447.3 | 6336.2 |
| 7.5° | 6913.1 | 6939.6 | 6934.3 | 6997.8 | 7029.6 | 7029.6 | 7061.3 | 6960.8 | 6802.0 | 6701.4 | 6590.2 |
| 10° | 7019.0 | 6950.2 | 6944.9 | 7093.1 | 7140.7 | 7251.9 | 7378.9 | 7326.0 | 7193.7 | 7050.8 | 6902.5 |
| 12.5° | 7082.5 | 7124.9 | 7124.9 | 7199.0 | 7310.1 | 7474.2 | 7696.5 | 7797.1 | 7590.7 | 7442.5 | 7214.8 |
| 15° | 7177.8 | 7119.6 | 7289.0 | 7352.5 | 7564.2 | 7680.7 | 7998.3 | 8257.6 | 8120.0 | 7940.0 | 7580.1 |
| 17.5° | 7220.1 | 7183.1 | 7278.4 | 7394.8 | 7754.8 | 7929.5 | 8315.9 | 8675.8 | 8559.4 | 8442.9 | 8072.4 |
| 20° | 7437.2 | 7431.9 | 7474.2 | 7569.5 | 7828.9 | 8172.9 | 8654.6 | 9152.2 | 9194.6 | 8982.8 | 8480.0 |
| 22.5° | 7966.5 | 7897.7 | 7897.7 | 7860.6 | 7971.8 | 8326.5 | 8977.5 | 9665.7 | 9856.2 | 9607.4 | 8940.5 |
| 25° | 8453.5 | 8548.8 | 8490.5 | 8321.2 | 8278.8 | 8464.1 | 9210.4 | 10210.9 | 10465.0 | 10232.1 | 9565.1 |
| 27.5° | 9078.1 | 9109.9 | 9210.4 | 8982.8 | 8691.7 | 8749.9 | 9464.5 | 10517.9 | 11041.9 | 10729.6 | 9919.8 |
| 30° | 9978.0 | 9919.8 | 9898.6 | 9644.5 | 9263.4 | 9184.0 | 9755.7 | 10967.8 | 11798.9 | 11359.6 | 10337.9 |
| 32.5° | 10586.7 | 10729.6 | 10724.3 | 10375.0 | 9914.5 | 9739.8 | 10115.6 | 11391.3 | 12608.8 | 12201.2 | 11110.8 |
| 35° | 11793.6 | 11941.8 | 11825.4 | 11311.9 | 10772.0 | 10422.6 | 10634.4 | 11941.8 | 13535.1 | 13217.5 | 11767.1 |
| 37.5° | 13334.0 | 13683.3 | 13434.5 | 12487.0 | 11724.8 | 11343.7 | 11354.3 | 12540.0 | 14482.6 | 14223.3 | 12471.2 |
| 40° | 14397.9 | 14869.0 | 14525.0 | 13635.7 | 12825.8 | 12465.9 | 12322.9 | 13249.3 | 15615.4 | 15340.2 | 13572.2 |
| 42.5° | 15716.0 | 16107.7 | 15927.7 | 15049.0 | 14101.5 | 13794.5 | 13508.7 | 14435.0 | 17346.3 | 17219.3 | 14985.5 |
| 45° | 17155.8 | 17341.0 | 17282.8 | 16727.0 | 15673.6 | 15567.8 | 14937.9 | 15996.5 | 19384.3 | 19437.2 | 16753.5 |
| 47.5° | 18495.0 | 18595.6 | 18706.7 | 18304.4 | 17648.1 | 17738.0 | 16584.1 | 17669.2 | 21364.0 | 21713.4 | 18722.6 |
| 50° | 18839.1 | 19183.1 | 19442.5 | 19712.5 | 19855.4 | 20464.1 | 18399.7 | 19723.1 | 23640.1 | 24317.7 | 20914.1 |
| 52.5° | 18489.7 | 18463.2 | 19252.0 | 20098.9 | 21528.1 | 22803.8 | 20871.7 | 22274.5 | 25651.6 | 26990.8 | 22920.2 |
| 55° | 16901.7 | 16848.8 | 18119.2 | 19241.4 | 22031.0 | 24106.0 | 24402.4 | 25672.8 | 28081.3 | 29822.8 | 25635.7 |
| 57.5° | 14122.7 | 13794.5 | 15181.4 | 17023.4 | 20940.5 | 24248.9 | 27948.9 | 30717.4 | 31818.4 | 33803.4 | 29780.4 |
| 60° | 9491.0 | 9353.4 | 10682.0 | 12878.7 | 17002.3 | 22221.5 | 30071.6 | 37032.3 | 37085.3 | 39319.1 | 36211.9 |
| 62.5° | 5843.9 | 5870.3 | 6722.6 | 8368.8 | 11904.8 | 17616.3 | 29155.8 | 42076.9 | 42087.5 | 44326.6 | 41505.2 |
| 65° | 3821.8 | 3837.7 | 4525.8 | 5436.3 | 7437.2 | 11947.1 | 24111.3 | 42473.9 | 45565.2 | 47645.5 | 43929.6 |
| 66° | 3403.6 | 3408.9 | 4001.8 | 4742.9 | 6161.5 | 9776.8 | 21295.2 | 41441.7 | 46348.7 | 48084.9 | 43897.8 |
| 67.5° | 2869.0 | 2937.8 | 3414.2 | 3985.9 | 4806.4 | 7024.3 | 16896.4 | 38456.3 | 45946.4 | 47470.9 | 42902.7 |
| 70° | 2244.4 | 2281.4 | 2657.3 | 3239.5 | 3604.8 | 4065.3 | 10041.5 | 31347.3 | 42055.7 | 44527.7 | 39282.0 |
| 72.5° | 1799.7 | 1831.5 | 2117.3 | 2630.8 | 2927.2 | 2678.4 | 5468.0 | 22745.6 | 33221.1 | 35857.2 | 30897.3 |
| 75° | 1519.2 | 1524.5 | 1662.1 | 2069.7 | 2408.5 | 2011.5 | 2911.3 | 14599.1 | 21316.4 | 22544.4 | 18929.1 |
| 77.5° | 1228.1 | 1249.2 | 1344.5 | 1577.4 | 1937.4 | 1582.7 | 1736.2 | 8178.2 | 10703.2 | 10793.2 | 8749.9 |
| 80° | 1000.4 | 1011.0 | 1069.3 | 1148.7 | 1476.8 | 1169.8 | 1175.1 | 3991.2 | 4589.3 | 4483.5 | 3557.1 |
| 82.5° | 788.7 | 799.3 | 868.1 | 852.2 | 1085.1 | 836.4 | 730.5 | 1921.5 | 2112.1 | 2069.7 | 1635.6 |
| 85° | 444.6 | 444.6 | 682.8 | 682.8 | 688.1 | 529.3 | 444.6 | 905.2 | 1116.9 | 1042.8 | 767.5 |
| 87.5° | 142.9 | 148.2 | 206.4 | 217.0 | 344.1 | 238.2 | 217.0 | 338.8 | 529.3 | 465.8 | 275.3 |
| 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° | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 | 6076.8 |
| 2.5° | 6203.8 | 6119.1 | 6082.1 | 5960.3 | 5928.6 | 5849.2 | 5812.1 | 5764.5 | 5748.6 | 5679.8 | 5743.3 |
| 5° | 6251.5 | 6225.0 | 6076.8 | 5923.3 | 5806.8 | 5753.9 | 5674.5 | 5568.6 | 5558.0 | 5462.7 | 5452.2 |
| 7.5° | 6452.6 | 6362.6 | 6103.2 | 5939.1 | 5706.2 | 5573.9 | 5399.2 | 5346.3 | 5277.5 | 5245.7 | 5314.5 |
| 10° | 6764.9 | 6537.3 | 6150.9 | 5738.0 | 5452.2 | 5293.4 | 5166.3 | 5129.3 | 5134.6 | 5113.4 | 5081.6 |
| 12.5° | 6987.2 | 6770.2 | 6071.5 | 5568.6 | 5198.1 | 5044.6 | 5034.0 | 5071.0 | 5129.3 | 5102.8 | 5139.9 |
| 15° | 7304.8 | 6897.2 | 6013.3 | 5288.1 | 4991.6 | 4949.3 | 4944.0 | 5055.2 | 5049.9 | 5049.9 | 5044.6 |
| 17.5° | 7601.3 | 7024.3 | 5801.5 | 5044.6 | 4774.6 | 4806.4 | 4843.4 | 4838.1 | 4891.1 | 4912.2 | 4949.3 |
| 20° | 7977.1 | 7172.5 | 5505.1 | 4801.1 | 4610.5 | 4599.9 | 4594.6 | 4599.9 | 4652.9 | 4684.6 | 4658.2 |
| 22.5° | 8305.3 | 7204.3 | 5256.3 | 4568.2 | 4414.7 | 4372.3 | 4303.5 | 4372.3 | 4345.8 | 4356.4 | 4388.2 |
| 25° | 8591.1 | 7209.6 | 4901.7 | 4393.5 | 4218.8 | 4123.5 | 4070.6 | 4065.3 | 4017.7 | 4012.4 | 4012.4 |
| 27.5° | 8829.3 | 7029.6 | 4589.3 | 4150.0 | 3985.9 | 3895.9 | 3890.6 | 3832.4 | 3710.6 | 3631.2 | 3641.8 |
| 30° | 9014.6 | 6892.0 | 4372.3 | 3938.3 | 3779.5 | 3763.6 | 3715.9 | 3583.6 | 3424.8 | 3324.2 | 3324.2 |
| 32.5° | 9342.8 | 6616.7 | 4075.9 | 3721.2 | 3641.8 | 3620.7 | 3509.5 | 3393.0 | 3244.8 | 3149.5 | 3133.7 |
| 35° | 9586.3 | 6362.6 | 3880.0 | 3536.0 | 3498.9 | 3456.6 | 3361.3 | 3234.2 | 3191.9 | 3170.7 | 3186.6 |
| 37.5° | 9861.5 | 6076.8 | 3641.8 | 3377.2 | 3414.2 | 3334.8 | 3223.7 | 3165.4 | 3313.6 | 3276.6 | 3292.5 |
| 40° | 10300.9 | 5875.6 | 3408.9 | 3281.9 | 3318.9 | 3228.9 | 3086.0 | 3064.9 | 3250.1 | 3117.8 | 3086.0 |
| 42.5° | 11105.5 | 5870.3 | 3266.0 | 3139.0 | 3165.4 | 3096.6 | 2969.6 | 2959.0 | 3033.1 | 2874.3 | 2826.7 |
| 45° | 12105.9 | 6055.6 | 3160.1 | 3033.1 | 3011.9 | 3001.3 | 2959.0 | 2911.3 | 2847.8 | 2641.4 | 2588.5 |
| 47.5° | 13302.2 | 6357.3 | 3139.0 | 2874.3 | 2900.8 | 2990.7 | 2937.8 | 2816.1 | 2652.0 | 2519.6 | 2493.2 |
| 50° | 14752.6 | 6981.9 | 3086.0 | 2757.8 | 2805.5 | 2948.4 | 2906.1 | 2736.7 | 2588.5 | 2503.8 | 2487.9 |
| 52.5° | 16356.5 | 7770.7 | 3017.2 | 2577.9 | 2683.7 | 2911.3 | 2932.5 | 2773.7 | 2556.7 | 2482.6 | 2472.0 |
| 55° | 18246.2 | 8935.2 | 2937.8 | 2382.0 | 2540.8 | 2874.3 | 2932.5 | 2667.9 | 2514.3 | 2514.3 | 2503.8 |
| 57.5° | 21978.0 | 11031.4 | 2773.7 | 2202.0 | 2413.8 | 2805.5 | 2847.8 | 2673.1 | 2519.6 | 2519.6 | 2498.5 |
| 60° | 27451.4 | 14302.7 | 2461.4 | 2064.4 | 2292.0 | 2710.2 | 2784.3 | 2593.7 | 2461.4 | 2493.2 | 2487.9 |
| 62.5° | 31733.7 | 15297.8 | 2196.7 | 1932.1 | 2170.3 | 2535.5 | 2699.6 | 2509.1 | 2392.6 | 2509.1 | 2519.6 |
| 65° | 32649.4 | 14292.1 | 1926.8 | 1789.2 | 2000.9 | 2366.1 | 2577.9 | 2387.3 | 2292.0 | 2519.6 | 2530.2 |
| 66° | 32321.3 | 13508.7 | 1831.5 | 1746.8 | 1926.8 | 2281.4 | 2503.8 | 2345.0 | 2239.1 | 2509.1 | 2514.3 |
| 67.5° | 30860.3 | 12333.5 | 1725.6 | 1656.8 | 1826.2 | 2159.7 | 2419.1 | 2286.7 | 2154.4 | 2477.3 | 2429.7 |
| 70° | 27684.3 | 10459.7 | 1545.7 | 1498.0 | 1683.3 | 1958.5 | 2223.2 | 2138.5 | 2022.1 | 2281.4 | 2196.7 |
| 72.5° | 21321.7 | 8358.2 | 1355.1 | 1360.4 | 1519.2 | 1752.1 | 2027.4 | 1969.1 | 1868.6 | 2000.9 | 1948.0 |
| 75° | 12984.6 | 5341.0 | 1180.4 | 1191.0 | 1323.3 | 1556.2 | 1842.1 | 1799.7 | 1678.0 | 1752.1 | 1725.6 |
| 77.5° | 5753.9 | 2646.7 | 995.2 | 1016.3 | 1122.2 | 1371.0 | 1603.9 | 1535.1 | 1408.0 | 1423.9 | 1413.3 |
| 80° | 2233.8 | 1254.5 | 809.9 | 836.4 | 905.2 | 1095.7 | 1328.6 | 1265.1 | 1154.0 | 1132.8 | 1122.2 |
| 82.5° | 1074.6 | 698.7 | 624.6 | 635.2 | 661.7 | 873.4 | 1143.4 | 1064.0 | 915.8 | 820.5 | 820.5 |
| 85° | 539.9 | 434.1 | 439.3 | 402.3 | 439.3 | 592.9 | 772.8 | 645.8 | 534.6 | 476.4 | 487.0 |
| 87.5° | 217.0 | 217.0 | 217.0 | 185.3 | 195.9 | 280.5 | 359.9 | 243.5 | 222.3 | 132.3 | 132.3 |
| 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)