

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: P478263

Luminaire Tested: **IFLD-L-SA7E-760-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-760-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

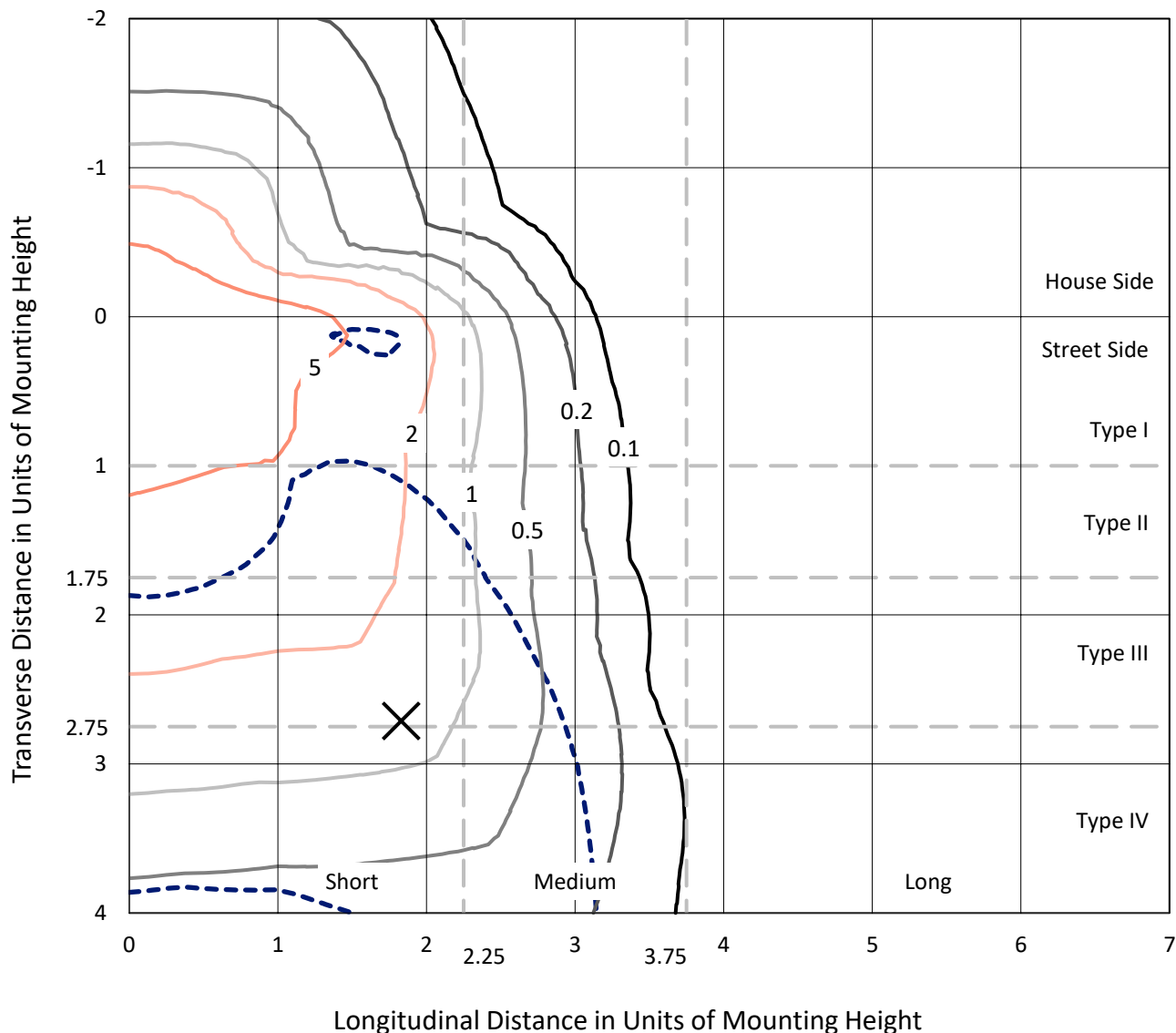
Lumens per Lamp: N/A
Luminaire Lumens: 59158.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

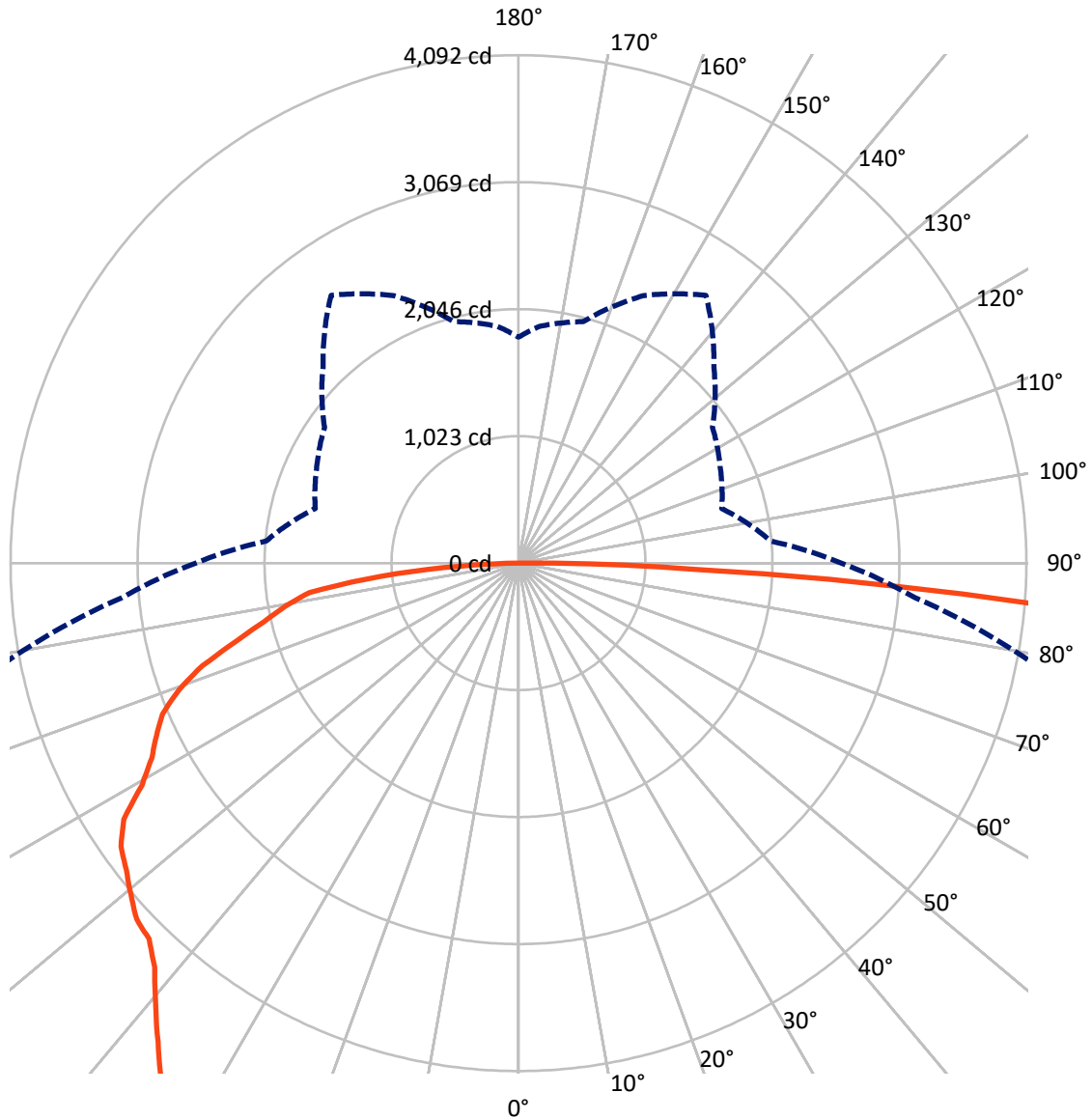
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12778.9 | 0.0 | 12778.9 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 46379.5 | 0.0 | 46379.5 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 59158.4 | 0.0 | 59158.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 782.8 | 1.3 |
| 10°-20° | 2190.7 | 3.7 |
| 20°-30° | 3605.5 | 6.1 |
| 30°-40° | 5392.0 | 9.1 |
| 40°-50° | 7993.5 | 13.5 |
| 50°-60° | 11519.5 | 19.5 |
| 60°-70° | 14700.4 | 24.8 |
| 70°-80° | 11439.3 | 19.3 |
| 80°-90° | 1534.7 | 2.6 |
| 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° | 59158.4 | 100.0 |
| 0°-180° | 59158.4 | 100.0 |

Coefficient of Utilization



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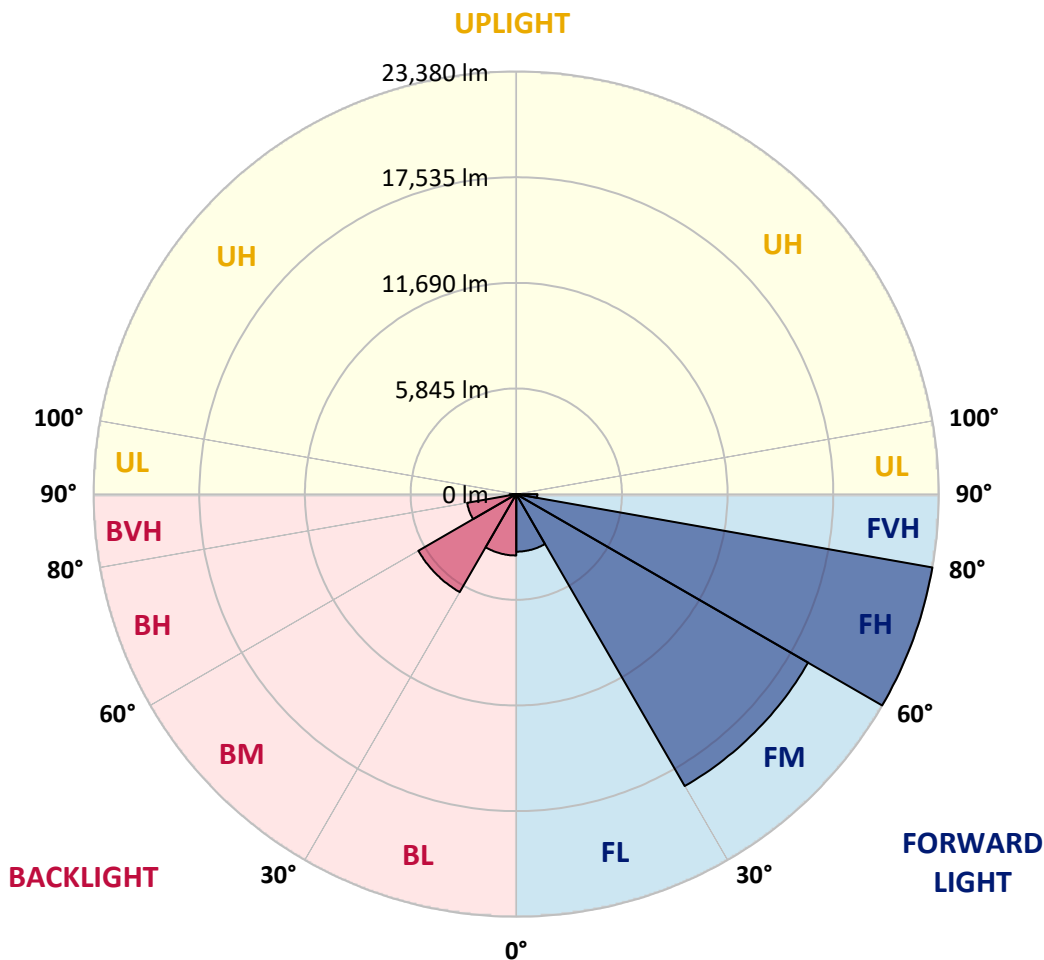
CATALOG NUMBER: IFLD-L-SA7E-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3183.7 | 5.4 | | | |
| FM (30°-60°) | 18647.1 | 31.5 | | | |
| FH (60°-80°) | 23380.5 | 39.5 | | | G5 |
| FVH (80°-90°) | 1168.1 | 2.0 | | | G5 |
| BL (0°-30°) | 3395.3 | 5.7 | B4/5000 | | |
| BM (30°-60°) | 6257.9 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 2759.3 | 4.7 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 366.5 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 |
| 2.5° | 7599.4 | 7624.4 | 7705.7 | 7724.5 | 7812.0 | 7762.0 | 7868.3 | 8056.0 | 8162.3 | 8318.7 | 8506.3 |
| 5° | 6998.9 | 6892.6 | 6942.6 | 7136.5 | 7236.6 | 7261.6 | 7374.2 | 7693.2 | 7893.4 | 8124.8 | 8475.0 |
| 7.5° | 6292.2 | 6273.4 | 6373.5 | 6498.6 | 6698.7 | 6717.5 | 6967.7 | 7249.1 | 7661.9 | 8174.8 | 8587.6 |
| 10° | 5810.6 | 5891.9 | 5948.2 | 6079.5 | 6217.1 | 6217.1 | 6536.1 | 7024.0 | 7493.1 | 7987.2 | 8612.6 |
| 12.5° | 5785.5 | 5735.5 | 5748.0 | 5816.8 | 5916.9 | 6042.0 | 6342.2 | 6780.0 | 7374.2 | 7949.6 | 8719.0 |
| 15° | 5866.8 | 5885.6 | 5773.0 | 5860.6 | 5898.1 | 5941.9 | 6273.4 | 6767.5 | 7299.2 | 8081.0 | 8900.3 |
| 17.5° | 6298.4 | 6192.1 | 6017.0 | 5935.7 | 6067.0 | 6067.0 | 6292.2 | 6680.0 | 7311.7 | 8149.8 | 9163.0 |
| 20° | 6636.2 | 6636.2 | 6348.5 | 6260.9 | 6354.7 | 6335.9 | 6492.3 | 6780.0 | 7374.2 | 8287.4 | 9457.0 |
| 22.5° | 7205.3 | 7286.7 | 6811.3 | 6629.9 | 6623.7 | 6673.7 | 6811.3 | 7055.2 | 7549.3 | 8481.3 | 9738.5 |
| 25° | 8024.7 | 8043.5 | 7493.1 | 7305.4 | 7105.3 | 7186.6 | 7211.6 | 7455.5 | 7705.7 | 8706.5 | 10057.5 |
| 27.5° | 8937.9 | 8925.4 | 8418.7 | 7949.6 | 7818.3 | 7837.1 | 7699.5 | 7862.1 | 7937.1 | 8775.3 | 10514.0 |
| 30° | 9951.1 | 9838.5 | 9457.0 | 8794.0 | 8687.7 | 8568.9 | 8268.6 | 8262.4 | 8418.7 | 9163.0 | 11145.8 |
| 32.5° | 10614.1 | 10470.3 | 10207.6 | 9732.2 | 9438.2 | 9450.8 | 8975.4 | 8969.1 | 8831.5 | 9588.4 | 11696.2 |
| 35° | 11264.6 | 11045.7 | 10976.9 | 10489.0 | 10195.1 | 10226.3 | 9844.8 | 9794.8 | 9544.6 | 10232.6 | 12603.1 |
| 37.5° | 12046.4 | 11852.5 | 11958.9 | 11589.8 | 11227.1 | 11077.0 | 10901.8 | 10839.3 | 10514.0 | 11139.5 | 13841.5 |
| 40° | 12909.6 | 12847.0 | 12778.2 | 12596.8 | 12377.9 | 12390.4 | 12202.8 | 12140.2 | 11658.6 | 12234.1 | 15029.9 |
| 42.5° | 14072.9 | 13835.3 | 13478.7 | 13597.6 | 13710.2 | 13829.0 | 13766.5 | 13603.8 | 13103.5 | 13347.4 | 16355.9 |
| 45° | 15155.0 | 14842.3 | 14185.5 | 14223.0 | 14685.9 | 14779.7 | 15536.5 | 15517.8 | 14510.8 | 14760.9 | 17863.2 |
| 47.5° | 15886.8 | 15742.9 | 15348.9 | 15305.1 | 15968.1 | 15961.8 | 17325.3 | 17325.3 | 15993.1 | 16168.2 | 19483.2 |
| 50° | 16975.1 | 16599.8 | 16430.9 | 16649.8 | 16987.6 | 17219.0 | 19151.7 | 19270.5 | 17450.4 | 17638.1 | 21603.5 |
| 52.5° | 18251.0 | 17781.9 | 17356.6 | 17919.5 | 18520.0 | 18670.1 | 20959.3 | 20909.3 | 18570.0 | 19345.6 | 24086.6 |
| 55° | 19308.1 | 19070.4 | 18776.4 | 19101.7 | 20083.6 | 20271.3 | 22773.1 | 22310.3 | 19689.6 | 20759.1 | 25281.2 |
| 57.5° | 20540.2 | 20684.1 | 20746.6 | 20665.3 | 21834.9 | 22128.9 | 24843.4 | 23517.4 | 20652.8 | 21709.8 | 25981.8 |
| 60° | 22397.9 | 22485.4 | 22566.7 | 22760.6 | 23999.0 | 24411.8 | 26482.1 | 25031.1 | 21259.5 | 22260.3 | 26038.1 |
| 62.5° | 25224.9 | 24887.2 | 25068.6 | 25737.8 | 26732.3 | 27201.4 | 28896.4 | 26094.3 | 21722.4 | 22591.7 | 24199.2 |
| 65° | 28458.6 | 28002.0 | 27814.4 | 28677.5 | 31254.4 | 30879.1 | 31911.2 | 26888.7 | 21053.1 | 21353.3 | 20521.5 |
| 67.5° | 31736.0 | 31786.1 | 31304.5 | 33037.0 | 36195.6 | 36195.6 | 34713.2 | 27270.2 | 19239.3 | 17306.6 | 14391.9 |
| 70° | 34338.0 | 34494.3 | 34757.0 | 38115.8 | 43119.5 | 43876.3 | 38184.6 | 25706.6 | 15542.8 | 11521.0 | 7868.3 |
| 72.5° | 34300.4 | 33831.3 | 35176.1 | 41361.9 | 49411.6 | 48779.9 | 38910.1 | 20327.6 | 9700.9 | 5641.7 | 3608.9 |
| 73° | 33531.1 | 33137.1 | 34606.9 | 41330.6 | 49668.1 | 49073.9 | 38378.5 | 18738.9 | 8556.3 | 4891.1 | 3208.6 |
| 75° | 27382.8 | 26669.8 | 29171.6 | 37434.0 | 45952.8 | 46409.4 | 32605.4 | 12221.6 | 4691.0 | 3014.7 | 2257.9 |
| 77.5° | 12484.3 | 12797.0 | 16055.7 | 25112.4 | 35413.8 | 35951.7 | 21434.6 | 5285.2 | 2570.7 | 2114.1 | 1663.7 |
| 80° | 4009.2 | 4209.4 | 6248.4 | 12484.3 | 22197.7 | 23167.2 | 9907.3 | 2401.8 | 1832.6 | 1620.0 | 1244.7 |
| 82.5° | 1532.4 | 1526.1 | 2620.7 | 5191.3 | 10520.3 | 11139.5 | 3621.4 | 1463.6 | 1363.5 | 1194.6 | 881.9 |
| 85° | 537.9 | 562.9 | 988.2 | 2051.5 | 4140.6 | 4334.5 | 1257.2 | 813.1 | 944.5 | 800.6 | 506.6 |
| 87.5° | 187.6 | 193.9 | 350.3 | 744.3 | 1426.1 | 1507.4 | 350.3 | 325.2 | 469.1 | 462.8 | 256.4 |
| 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° | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 | 8481.3 |
| 2.5° | 8568.9 | 8625.1 | 8643.9 | 8869.1 | 8869.1 | 8869.1 | 8956.6 | 8956.6 | 8931.6 | 8869.1 | 9019.2 |
| 5° | 8606.4 | 8706.5 | 8900.3 | 9094.2 | 9144.3 | 9188.1 | 9306.9 | 9206.8 | 9244.4 | 9181.8 | 9238.1 |
| 7.5° | 8712.7 | 8850.3 | 9213.1 | 9331.9 | 9250.6 | 9344.4 | 9219.3 | 9150.5 | 9081.7 | 9106.8 | 9019.2 |
| 10° | 8894.1 | 9069.2 | 9238.1 | 9457.0 | 9300.6 | 9206.8 | 8950.4 | 8887.8 | 8668.9 | 8593.9 | 8662.7 |
| 12.5° | 9119.3 | 9331.9 | 9619.6 | 9538.3 | 9238.1 | 8969.1 | 8693.9 | 8431.3 | 8299.9 | 8112.3 | 8162.3 |
| 15° | 9344.4 | 9588.4 | 9632.1 | 9494.5 | 9119.3 | 8781.5 | 8281.1 | 7912.1 | 7780.8 | 7611.9 | 7699.5 |
| 17.5° | 9588.4 | 9819.8 | 9744.7 | 9388.2 | 8881.6 | 8368.7 | 7799.5 | 7436.8 | 7161.6 | 7055.2 | 7055.2 |
| 20° | 9951.1 | 10063.7 | 9944.9 | 9213.1 | 8593.9 | 7918.4 | 7368.0 | 6955.2 | 6680.0 | 6636.2 | 6567.4 |
| 22.5° | 10232.6 | 10414.0 | 9882.3 | 8956.6 | 8174.8 | 7330.4 | 6698.7 | 6542.3 | 6461.0 | 6392.2 | 6304.7 |
| 25° | 10595.4 | 10589.1 | 9769.7 | 8719.0 | 7455.5 | 6629.9 | 6248.4 | 6235.9 | 6198.3 | 6173.3 | 6292.2 |
| 27.5° | 10939.4 | 10795.5 | 9638.4 | 8131.0 | 6711.2 | 6098.3 | 5891.9 | 6029.5 | 6085.8 | 6048.2 | 6098.3 |
| 30° | 11483.5 | 11245.8 | 9450.8 | 7505.6 | 6054.5 | 5560.4 | 5597.9 | 5785.5 | 5879.4 | 5935.7 | 5860.6 |
| 32.5° | 12058.9 | 11696.2 | 9063.0 | 6855.1 | 5472.8 | 5222.6 | 5310.2 | 5504.1 | 5616.7 | 5679.2 | 5748.0 |
| 35° | 12890.8 | 12046.4 | 8668.9 | 6004.5 | 5053.7 | 5016.2 | 5066.3 | 5172.6 | 5335.2 | 5379.0 | 5397.8 |
| 37.5° | 13916.6 | 12578.1 | 8137.3 | 5322.7 | 4728.5 | 4772.3 | 4822.3 | 4859.9 | 4866.1 | 4947.4 | 4916.1 |
| 40° | 14942.3 | 13028.4 | 7361.7 | 4672.2 | 4390.8 | 4628.4 | 4603.4 | 4534.6 | 4478.3 | 4403.3 | 4384.5 |
| 42.5° | 15843.0 | 13422.5 | 6498.6 | 4121.8 | 4090.5 | 4478.3 | 4397.0 | 4221.9 | 4090.5 | 4034.2 | 3940.4 |
| 45° | 16856.2 | 13979.1 | 5629.2 | 3777.8 | 3859.1 | 4296.9 | 4271.9 | 4003.0 | 3834.1 | 3633.9 | 3608.9 |
| 47.5° | 18169.7 | 14560.8 | 4797.3 | 3421.3 | 3640.2 | 4228.1 | 4240.6 | 3896.6 | 3652.7 | 3383.8 | 3346.2 |
| 50° | 19852.2 | 15398.9 | 4165.6 | 3271.2 | 3508.9 | 4128.1 | 4146.8 | 3752.8 | 3433.8 | 3158.6 | 3133.6 |
| 52.5° | 21465.9 | 16255.8 | 3640.2 | 3039.8 | 3421.3 | 4009.2 | 4053.0 | 3621.4 | 3252.4 | 2908.4 | 2927.2 |
| 55° | 22279.0 | 15943.1 | 3189.9 | 2870.9 | 3221.1 | 3815.3 | 3977.9 | 3527.6 | 2977.2 | 2739.5 | 2733.3 |
| 57.5° | 22460.4 | 15173.7 | 2833.4 | 2695.7 | 3052.3 | 3608.9 | 3852.9 | 3246.2 | 2852.1 | 2652.0 | 2626.9 |
| 60° | 21866.2 | 13829.0 | 2551.9 | 2508.1 | 2839.6 | 3396.3 | 3565.1 | 3096.0 | 2727.0 | 2564.4 | 2526.9 |
| 62.5° | 20402.6 | 12434.2 | 2358.0 | 2420.5 | 2658.2 | 3164.8 | 3383.8 | 2989.7 | 2608.2 | 2495.6 | 2414.3 |
| 65° | 16731.2 | 10226.3 | 2201.6 | 2251.7 | 2470.6 | 2939.7 | 3271.2 | 2870.9 | 2501.9 | 2395.5 | 2389.3 |
| 67.5° | 11589.8 | 7049.0 | 2076.5 | 2170.4 | 2320.5 | 2777.1 | 3158.6 | 2739.5 | 2364.3 | 2326.7 | 2276.7 |
| 70° | 5935.7 | 3759.0 | 1913.9 | 1989.0 | 2157.8 | 2570.7 | 2958.4 | 2601.9 | 2220.4 | 2214.1 | 2151.6 |
| 72.5° | 3008.5 | 2201.6 | 1726.3 | 1838.9 | 1957.7 | 2301.7 | 2708.3 | 2420.5 | 2039.0 | 1970.2 | 1870.1 |
| 73° | 2601.9 | 2039.0 | 1695.0 | 1795.1 | 1907.7 | 2226.7 | 2633.2 | 2376.8 | 2014.0 | 1913.9 | 1820.1 |
| 75° | 1895.2 | 1607.4 | 1519.9 | 1620.0 | 1707.5 | 2007.7 | 2383.0 | 2176.6 | 1851.4 | 1745.0 | 1657.5 |
| 77.5° | 1419.8 | 1238.4 | 1263.4 | 1376.0 | 1451.1 | 1732.5 | 2120.3 | 1970.2 | 1676.2 | 1532.4 | 1494.9 |
| 80° | 1044.5 | 944.5 | 1044.5 | 1150.9 | 1207.1 | 1526.1 | 1932.7 | 1707.5 | 1413.5 | 1250.9 | 1219.7 |
| 82.5° | 744.3 | 688.0 | 806.8 | 875.6 | 900.7 | 1263.4 | 1738.8 | 1363.5 | 1069.5 | 856.9 | 788.1 |
| 85° | 425.3 | 419.1 | 544.2 | 537.9 | 556.7 | 738.0 | 1144.6 | 906.9 | 688.0 | 525.4 | 512.9 |
| 87.5° | 187.6 | 206.4 | 275.2 | 218.9 | 231.4 | 350.3 | 487.9 | 337.8 | 281.5 | 156.4 | 118.8 |
| 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)