

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: P476551

Luminaire Tested: **IFLD-L-SA8D-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476551
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

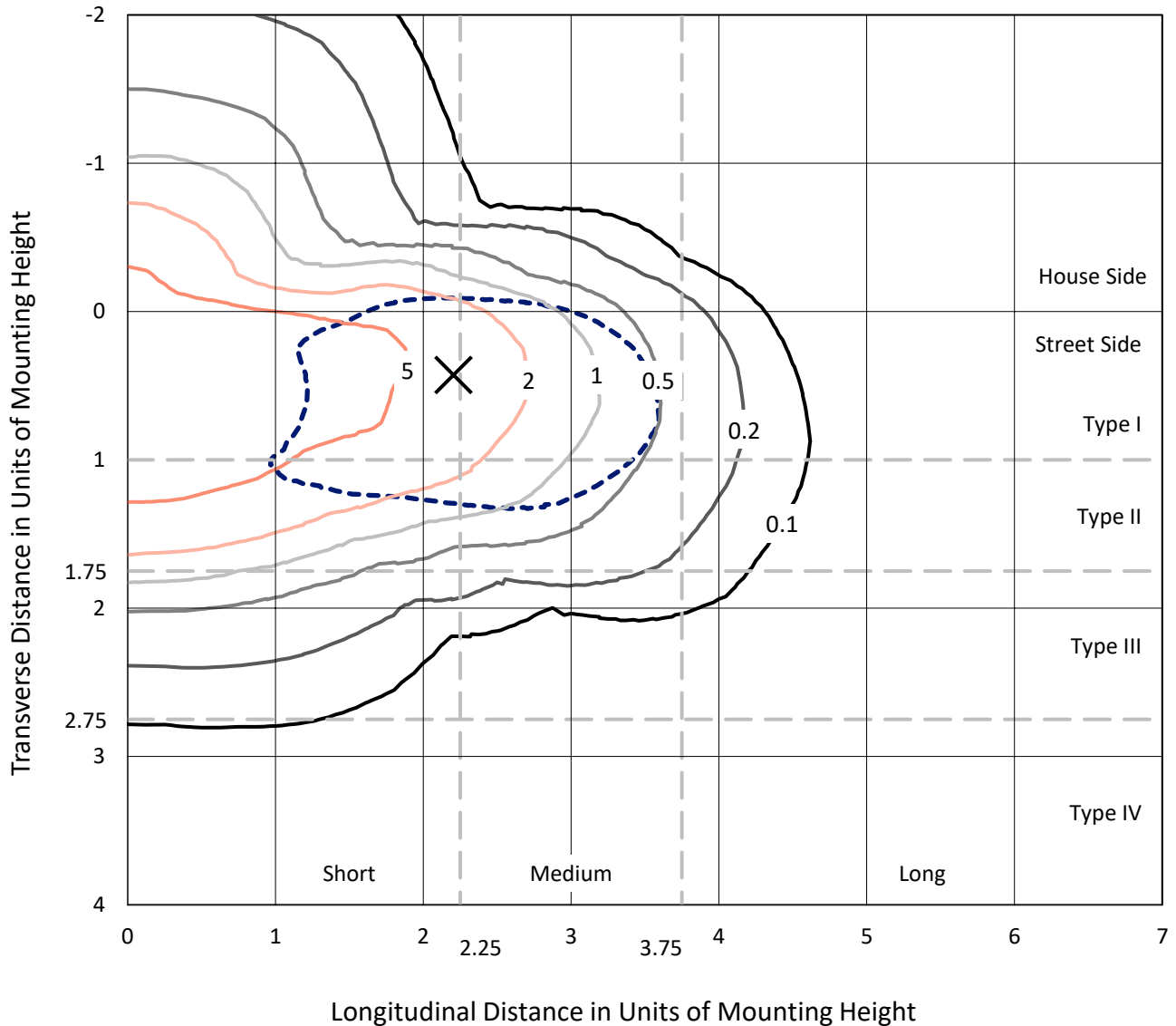
Lumens per Lamp: N/A
Luminaire Lumens: 50702.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

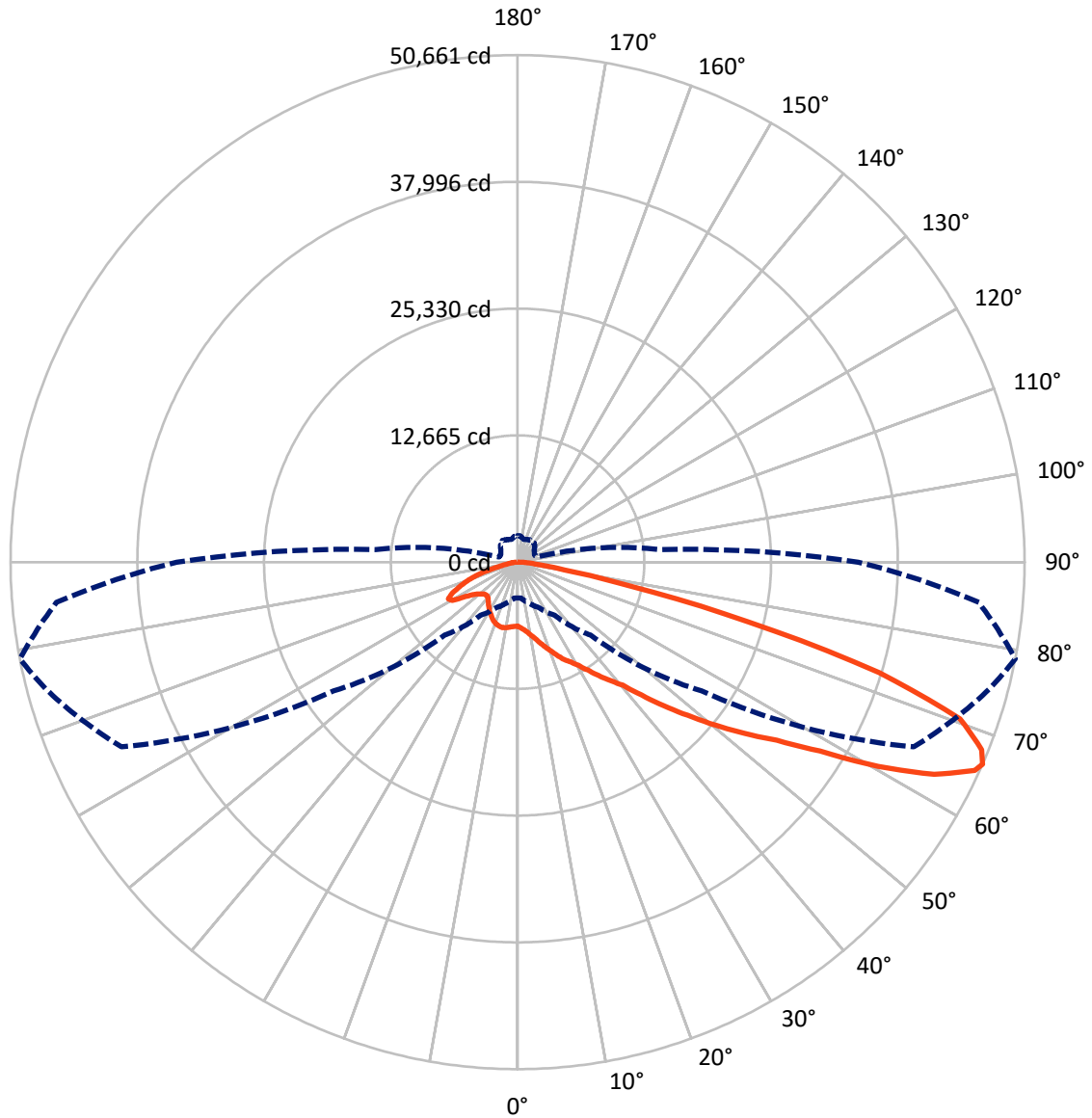
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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 | 10238.7 | 0.0 | 10238.7 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 40463.9 | 0.0 | 40463.9 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 50702.6 | 0.0 | 50702.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 629.5 | 1.2 |
| 10°-20° | 1944.0 | 3.8 |
| 20°-30° | 3336.9 | 6.6 |
| 30°-40° | 5154.9 | 10.2 |
| 40°-50° | 8256.8 | 16.3 |
| 50°-60° | 12328.0 | 24.3 |
| 60°-70° | 12667.0 | 25.0 |
| 70°-80° | 5615.1 | 11.1 |
| 80°-90° | 770.4 | 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° | 50702.6 | 100.0 |
| 0°-180° | 50702.6 | 100.0 |

Coefficient of Utilization



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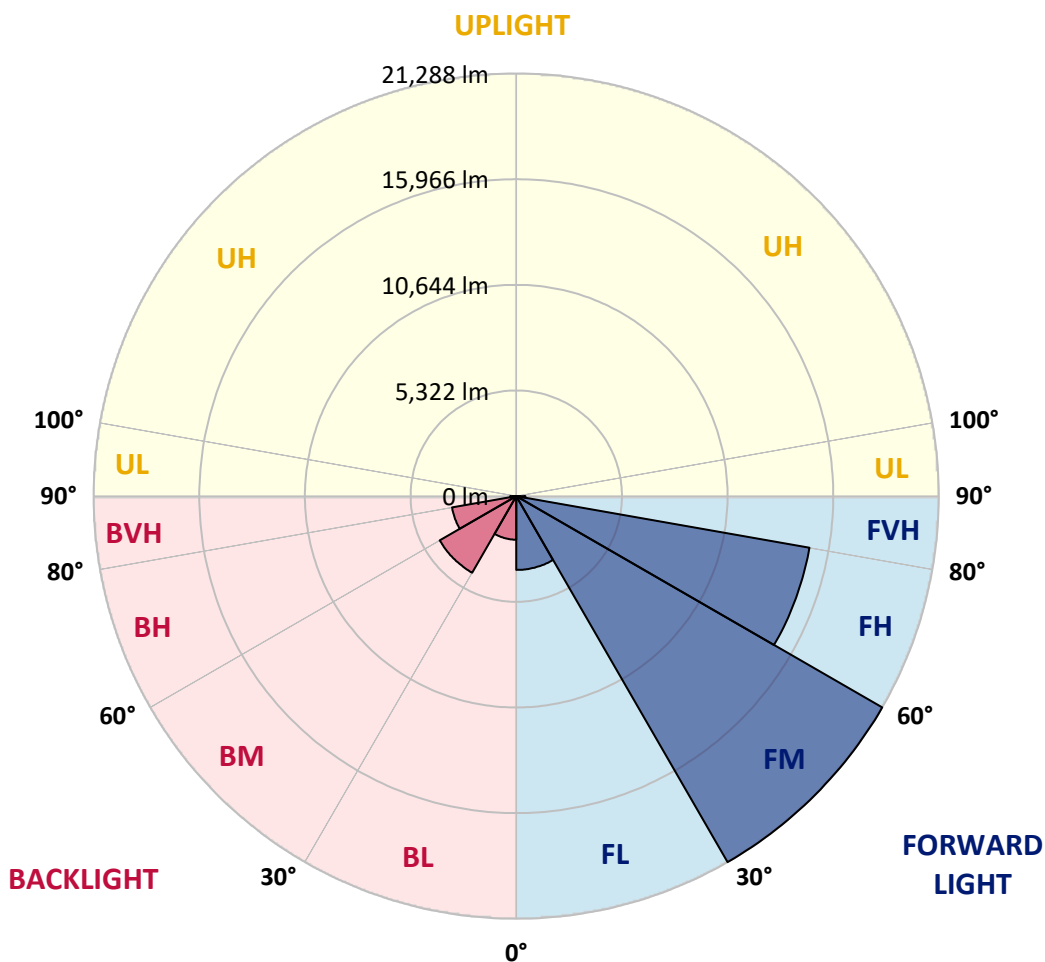
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3716.8 | 7.3 | | | |
| FM (30°-60°) | 21288.3 | 42.0 | | | |
| FH (60°-80°) | 14996.7 | 29.6 | | | G5 |
| FVH (80°-90°) | 462.1 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2193.6 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 4451.3 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 3285.4 | 6.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 308.4 | 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° | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 |
| 2.5° | 6809.4 | 6815.0 | 6815.0 | 6792.7 | 6798.3 | 6815.0 | 6753.7 | 6619.8 | 6619.8 | 6597.5 | 6558.5 |
| 5° | 7227.7 | 7199.8 | 7160.8 | 7166.4 | 7144.1 | 7144.1 | 7077.1 | 6948.9 | 6837.3 | 6792.7 | 6675.6 |
| 7.5° | 7283.5 | 7311.4 | 7305.8 | 7372.7 | 7406.2 | 7406.2 | 7439.6 | 7333.7 | 7166.4 | 7060.4 | 6943.3 |
| 10° | 7395.0 | 7322.5 | 7316.9 | 7473.1 | 7523.3 | 7640.4 | 7774.3 | 7718.5 | 7579.1 | 7428.5 | 7272.3 |
| 12.5° | 7461.9 | 7506.6 | 7506.6 | 7584.6 | 7701.8 | 7874.6 | 8108.9 | 8214.8 | 7997.3 | 7841.2 | 7601.4 |
| 15° | 7562.3 | 7501.0 | 7679.4 | 7746.4 | 7969.4 | 8092.1 | 8426.8 | 8700.0 | 8555.0 | 8365.4 | 7986.2 |
| 17.5° | 7606.9 | 7567.9 | 7668.3 | 7791.0 | 8170.2 | 8354.3 | 8761.4 | 9140.6 | 9017.9 | 8895.2 | 8504.8 |
| 20° | 7835.6 | 7830.0 | 7874.6 | 7975.0 | 8248.3 | 8610.8 | 9118.3 | 9642.5 | 9687.1 | 9464.1 | 8934.3 |
| 22.5° | 8393.3 | 8320.8 | 8320.8 | 8281.8 | 8398.9 | 8772.5 | 9458.5 | 10183.5 | 10384.3 | 10122.1 | 9419.4 |
| 25° | 8906.4 | 9006.8 | 8945.4 | 8766.9 | 8722.3 | 8917.5 | 9703.9 | 10757.9 | 11025.6 | 10780.2 | 10077.5 |
| 27.5° | 9564.4 | 9597.9 | 9703.9 | 9464.1 | 9157.3 | 9218.7 | 9971.6 | 11081.4 | 11633.5 | 11304.5 | 10451.2 |
| 30° | 10512.5 | 10451.2 | 10428.9 | 10161.2 | 9759.6 | 9676.0 | 10278.3 | 11555.4 | 12431.0 | 11968.1 | 10891.8 |
| 32.5° | 11153.9 | 11304.5 | 11298.9 | 10930.8 | 10445.6 | 10261.6 | 10657.5 | 12001.6 | 13284.3 | 12854.8 | 11706.0 |
| 35° | 12425.4 | 12581.6 | 12458.9 | 11917.9 | 11349.1 | 10981.0 | 11204.1 | 12581.6 | 14260.2 | 13925.6 | 12397.5 |
| 37.5° | 14048.3 | 14416.4 | 14154.3 | 13156.0 | 12352.9 | 11951.4 | 11962.5 | 13211.8 | 15258.5 | 14985.2 | 13139.3 |
| 40° | 15169.3 | 15665.6 | 15303.1 | 14366.2 | 13512.9 | 13133.7 | 12983.1 | 13959.1 | 16452.0 | 16162.0 | 14299.3 |
| 42.5° | 16557.9 | 16970.6 | 16781.0 | 15855.2 | 14857.0 | 14533.5 | 14232.3 | 15208.3 | 18275.6 | 18141.8 | 15788.3 |
| 45° | 18074.9 | 18270.0 | 18208.7 | 17623.1 | 16513.3 | 16401.8 | 15738.1 | 16853.5 | 20422.7 | 20478.5 | 17651.0 |
| 47.5° | 19485.8 | 19591.8 | 19708.9 | 19285.1 | 18593.5 | 18688.3 | 17472.5 | 18615.8 | 22508.5 | 22876.6 | 19725.6 |
| 50° | 19848.3 | 20210.8 | 20484.1 | 20768.5 | 20919.1 | 21560.4 | 19385.4 | 20779.7 | 24906.6 | 25620.5 | 22034.5 |
| 52.5° | 19480.2 | 19452.4 | 20283.3 | 21175.6 | 22681.4 | 24025.4 | 21989.9 | 23467.8 | 27025.8 | 28436.8 | 24148.1 |
| 55° | 17807.2 | 17751.4 | 19089.9 | 20272.2 | 23211.2 | 25397.4 | 25709.7 | 27048.1 | 29585.7 | 31420.5 | 27009.1 |
| 57.5° | 14879.3 | 14533.5 | 15994.7 | 17935.4 | 22062.4 | 25548.0 | 29446.2 | 32363.0 | 33523.0 | 35614.3 | 31375.9 |
| 60° | 9999.4 | 9854.4 | 11254.3 | 13568.7 | 17913.1 | 23412.0 | 31682.6 | 39016.3 | 39072.0 | 41425.5 | 38151.8 |
| 62.5° | 6156.9 | 6184.8 | 7082.7 | 8817.1 | 12542.5 | 18560.0 | 30717.8 | 44331.1 | 44342.2 | 46701.3 | 43728.8 |
| 65° | 4026.5 | 4043.3 | 4768.3 | 5727.5 | 7835.6 | 12587.1 | 25403.0 | 44749.4 | 48006.3 | 50198.0 | 46283.0 |
| 66° | 3586.0 | 3591.5 | 4216.2 | 4996.9 | 6491.6 | 10300.6 | 22436.0 | 43661.8 | 48831.7 | 50660.9 | 46249.5 |
| 67.5° | 3022.7 | 3095.2 | 3597.1 | 4199.4 | 5063.9 | 7400.6 | 17801.6 | 40516.5 | 48407.8 | 50014.0 | 45201.1 |
| 70° | 2364.6 | 2403.7 | 2799.6 | 3413.1 | 3797.9 | 4283.1 | 10579.5 | 33026.6 | 44308.8 | 46913.2 | 41386.5 |
| 72.5° | 1896.2 | 1929.6 | 2230.8 | 2771.7 | 3084.0 | 2821.9 | 5761.0 | 23964.1 | 35000.9 | 37778.2 | 32552.6 |
| 75° | 1600.6 | 1606.2 | 1751.2 | 2180.6 | 2537.5 | 2119.2 | 3067.3 | 15381.2 | 22458.3 | 23752.2 | 19943.1 |
| 77.5° | 1293.8 | 1316.2 | 1416.5 | 1661.9 | 2041.2 | 1667.5 | 1829.2 | 8616.4 | 11276.6 | 11371.4 | 9218.7 |
| 80° | 1054.0 | 1065.2 | 1126.5 | 1210.2 | 1556.0 | 1232.5 | 1238.1 | 4205.0 | 4835.2 | 4723.7 | 3747.7 |
| 82.5° | 831.0 | 842.1 | 914.6 | 897.9 | 1143.3 | 881.2 | 769.6 | 2024.4 | 2225.2 | 2180.6 | 1723.3 |
| 85° | 468.5 | 468.5 | 719.4 | 719.4 | 725.0 | 557.7 | 468.5 | 953.7 | 1176.7 | 1098.7 | 808.7 |
| 87.5° | 150.6 | 156.2 | 217.5 | 228.7 | 362.5 | 251.0 | 228.7 | 356.9 | 557.7 | 490.8 | 290.0 |
| 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° | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 | 6402.3 |
| 2.5° | 6536.2 | 6446.9 | 6407.9 | 6279.6 | 6246.2 | 6162.5 | 6123.5 | 6073.3 | 6056.6 | 5984.1 | 6051.0 |
| 5° | 6586.4 | 6558.5 | 6402.3 | 6240.6 | 6117.9 | 6062.1 | 5978.5 | 5866.9 | 5855.8 | 5755.4 | 5744.2 |
| 7.5° | 6798.3 | 6703.5 | 6430.2 | 6257.3 | 6011.9 | 5872.5 | 5688.5 | 5632.7 | 5560.2 | 5526.7 | 5599.2 |
| 10° | 7127.3 | 6887.5 | 6480.4 | 6045.4 | 5744.2 | 5576.9 | 5443.1 | 5404.1 | 5409.6 | 5387.3 | 5353.9 |
| 12.5° | 7361.6 | 7132.9 | 6396.7 | 5866.9 | 5476.6 | 5314.8 | 5303.7 | 5342.7 | 5404.1 | 5376.2 | 5415.2 |
| 15° | 7696.2 | 7266.8 | 6335.4 | 5571.4 | 5259.1 | 5214.4 | 5208.9 | 5326.0 | 5320.4 | 5320.4 | 5314.8 |
| 17.5° | 8008.5 | 7400.6 | 6112.3 | 5314.8 | 5030.4 | 5063.9 | 5102.9 | 5097.3 | 5153.1 | 5175.4 | 5214.4 |
| 20° | 8404.4 | 7556.8 | 5800.0 | 5058.3 | 4857.5 | 4846.4 | 4840.8 | 4846.4 | 4902.1 | 4935.6 | 4907.7 |
| 22.5° | 8750.2 | 7590.2 | 5537.9 | 4812.9 | 4651.2 | 4606.6 | 4534.1 | 4606.6 | 4578.7 | 4589.8 | 4623.3 |
| 25° | 9051.4 | 7595.8 | 5164.2 | 4628.9 | 4444.8 | 4344.4 | 4288.7 | 4283.1 | 4232.9 | 4227.3 | 4227.3 |
| 27.5° | 9302.3 | 7406.2 | 4835.2 | 4372.3 | 4199.4 | 4104.6 | 4099.0 | 4037.7 | 3909.4 | 3825.8 | 3836.9 |
| 30° | 9497.5 | 7261.2 | 4606.6 | 4149.2 | 3981.9 | 3965.2 | 3915.0 | 3775.6 | 3608.3 | 3502.3 | 3502.3 |
| 32.5° | 9843.3 | 6971.2 | 4294.2 | 3920.6 | 3836.9 | 3814.6 | 3697.5 | 3574.8 | 3418.7 | 3318.3 | 3301.5 |
| 35° | 10099.8 | 6703.5 | 4087.9 | 3725.4 | 3686.4 | 3641.7 | 3541.4 | 3407.5 | 3362.9 | 3340.6 | 3357.3 |
| 37.5° | 10389.8 | 6402.3 | 3836.9 | 3558.1 | 3597.1 | 3513.5 | 3396.4 | 3335.0 | 3491.2 | 3452.1 | 3468.9 |
| 40° | 10852.7 | 6190.4 | 3591.5 | 3457.7 | 3496.7 | 3401.9 | 3251.4 | 3229.0 | 3424.2 | 3284.8 | 3251.4 |
| 42.5° | 11700.4 | 6184.8 | 3441.0 | 3307.1 | 3335.0 | 3262.5 | 3128.7 | 3117.5 | 3195.6 | 3028.3 | 2978.1 |
| 45° | 12754.5 | 6380.0 | 3329.4 | 3195.6 | 3173.3 | 3162.1 | 3117.5 | 3067.3 | 3000.4 | 2782.9 | 2727.1 |
| 47.5° | 14014.8 | 6697.9 | 3307.1 | 3028.3 | 3056.2 | 3151.0 | 3095.2 | 2966.9 | 2794.0 | 2654.6 | 2626.7 |
| 50° | 15542.9 | 7356.0 | 3251.4 | 2905.6 | 2955.8 | 3106.4 | 3061.7 | 2883.3 | 2727.1 | 2637.9 | 2621.2 |
| 52.5° | 17232.7 | 8186.9 | 3178.9 | 2716.0 | 2827.5 | 3067.3 | 3089.6 | 2922.3 | 2693.7 | 2615.6 | 2604.4 |
| 55° | 19223.7 | 9413.9 | 3095.2 | 2509.6 | 2676.9 | 3028.3 | 3089.6 | 2810.8 | 2649.0 | 2649.0 | 2637.9 |
| 57.5° | 23155.4 | 11622.3 | 2922.3 | 2320.0 | 2543.1 | 2955.8 | 3000.4 | 2816.4 | 2654.6 | 2654.6 | 2632.3 |
| 60° | 28922.0 | 15068.9 | 2593.3 | 2175.0 | 2414.8 | 2855.4 | 2933.5 | 2732.7 | 2593.3 | 2626.7 | 2621.2 |
| 62.5° | 33433.7 | 16117.4 | 2314.4 | 2035.6 | 2286.5 | 2671.4 | 2844.2 | 2643.5 | 2520.8 | 2643.5 | 2654.6 |
| 65° | 34398.6 | 15057.7 | 2030.0 | 1885.0 | 2108.1 | 2492.9 | 2716.0 | 2515.2 | 2414.8 | 2654.6 | 2665.8 |
| 66° | 34052.8 | 14232.3 | 1929.6 | 1840.4 | 2030.0 | 2403.7 | 2637.9 | 2470.6 | 2359.0 | 2643.5 | 2649.0 |
| 67.5° | 32513.5 | 12994.3 | 1818.1 | 1745.6 | 1924.0 | 2275.4 | 2548.7 | 2409.2 | 2269.8 | 2610.0 | 2559.8 |
| 70° | 29167.4 | 11020.0 | 1628.5 | 1578.3 | 1773.5 | 2063.5 | 2342.3 | 2253.1 | 2130.4 | 2403.7 | 2314.4 |
| 72.5° | 22463.9 | 8806.0 | 1427.7 | 1433.3 | 1600.6 | 1846.0 | 2136.0 | 2074.6 | 1968.7 | 2108.1 | 2052.3 |
| 75° | 13680.2 | 5627.1 | 1243.7 | 1254.8 | 1394.2 | 1639.6 | 1940.8 | 1896.2 | 1767.9 | 1846.0 | 1818.1 |
| 77.5° | 6062.1 | 2788.5 | 1048.5 | 1070.8 | 1182.3 | 1444.4 | 1689.8 | 1617.3 | 1483.5 | 1500.2 | 1489.0 |
| 80° | 2353.5 | 1321.7 | 853.3 | 881.2 | 953.7 | 1154.4 | 1399.8 | 1332.9 | 1215.8 | 1193.5 | 1182.3 |
| 82.5° | 1132.1 | 736.2 | 658.1 | 669.2 | 697.1 | 920.2 | 1204.6 | 1121.0 | 964.8 | 864.4 | 864.4 |
| 85° | 568.8 | 457.3 | 462.9 | 423.8 | 462.9 | 624.6 | 814.2 | 680.4 | 563.3 | 501.9 | 513.1 |
| 87.5° | 228.7 | 228.7 | 228.7 | 195.2 | 206.3 | 295.6 | 379.2 | 256.5 | 234.2 | 139.4 | 139.4 |
| 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)