

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: P480762

Luminaire Tested: **IFLD-L-SA8C-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

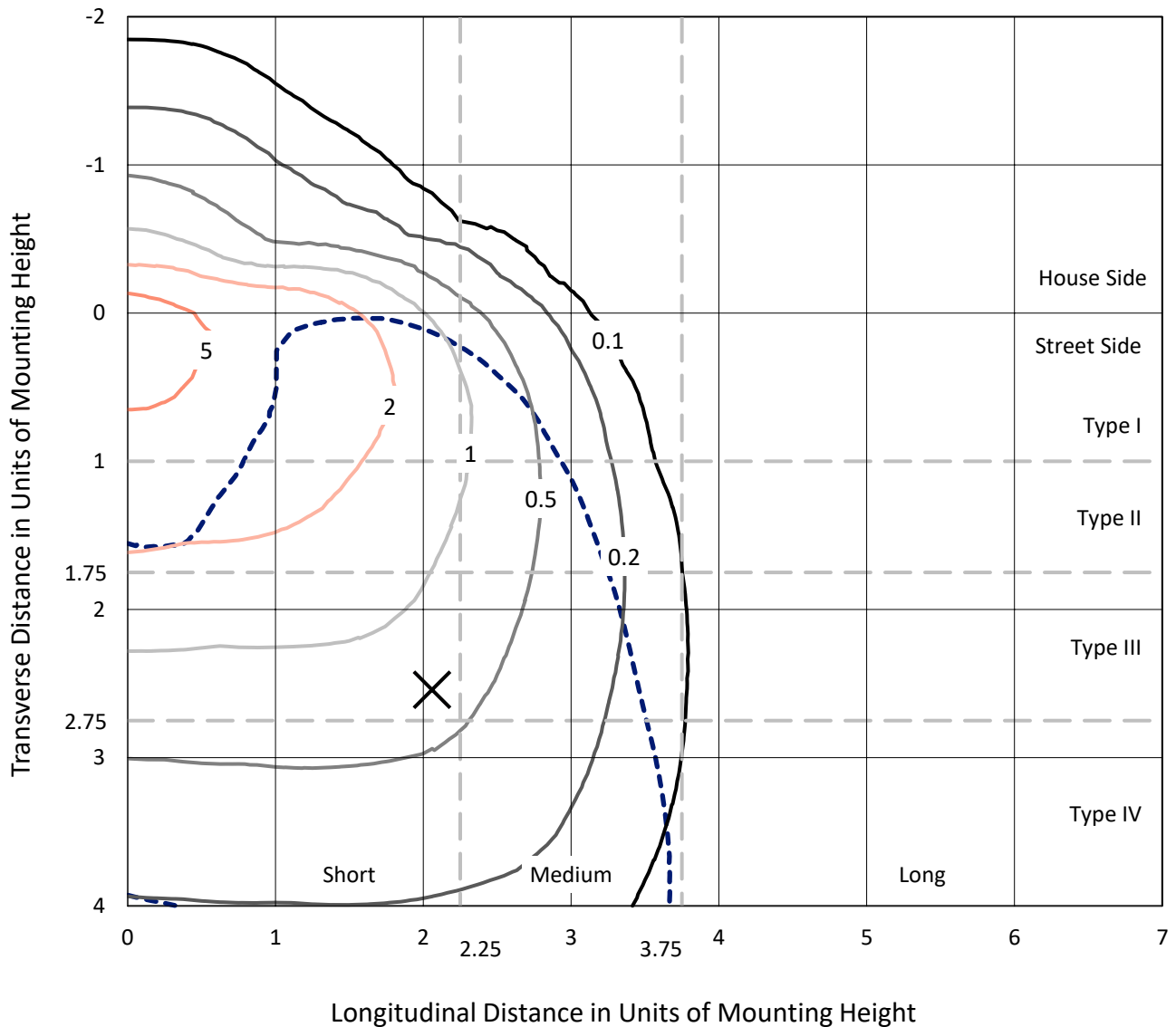
Lumens per Lamp: N/A
Luminaire Lumens: 36098 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

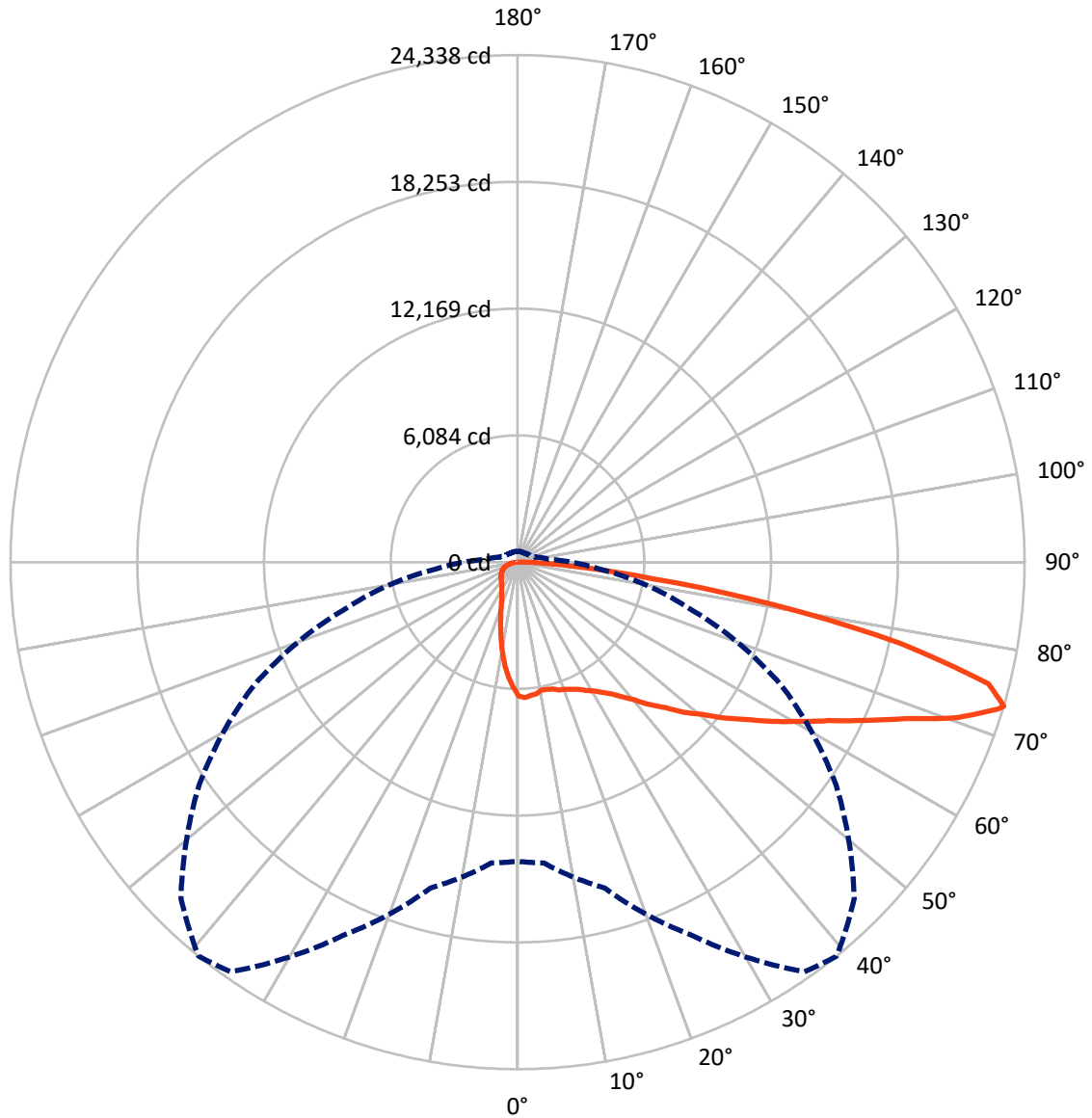
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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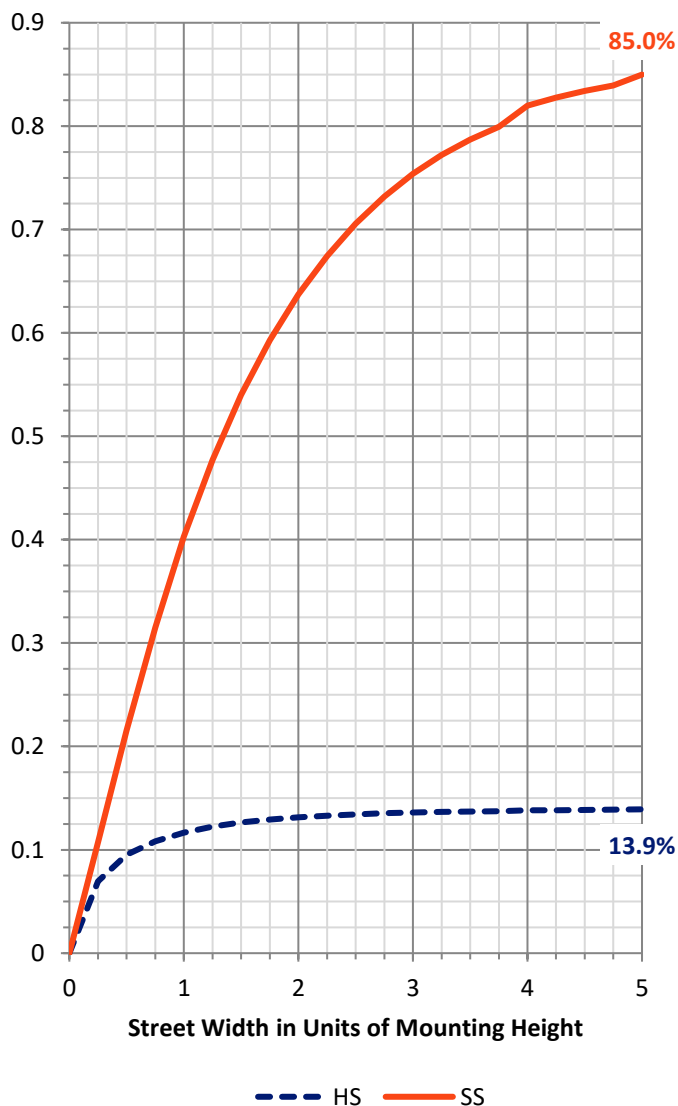
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5074.4 | 0.0 | 5074.4 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 31023.6 | 0.0 | 31023.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 36098.0 | 0.0 | 36098.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 557.8 | 1.5 |
| 10°-20° | 1418.0 | 3.9 |
| 20°-30° | 2166.9 | 6.0 |
| 30°-40° | 3159.4 | 8.8 |
| 40°-50° | 4774.1 | 13.2 |
| 50°-60° | 6913.2 | 19.2 |
| 60°-70° | 8783.5 | 24.3 |
| 70°-80° | 7120.4 | 19.7 |
| 80°-90° | 1204.7 | 3.3 |
| 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° | 36098.0 | 100.0 |
| 0°-180° | 36098.0 | 100.0 |

Coefficient of Utilization



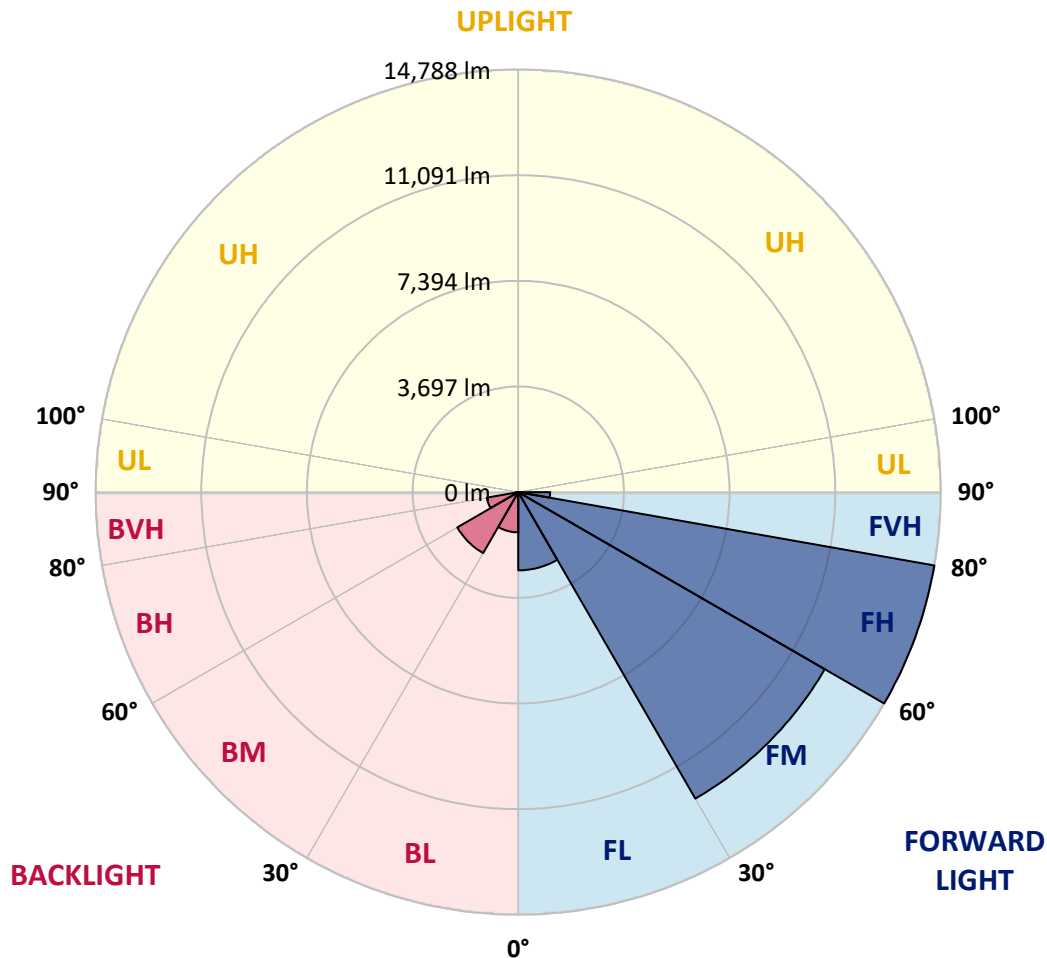
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2735.4 | 7.6 | | | |
| FM (30°-60°) | 12383.9 | 34.3 | | | |
| FH (60°-80°) | 14787.9 | 41.0 | | | G5 |
| FVH (80°-90°) | 1116.4 | 3.1 | | | G5 |
| BL (0°-30°) | 1407.2 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2462.7 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1116.0 | 3.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 |
| 2.5° | 6579.1 | 6510.5 | 6522.6 | 6498.4 | 6522.6 | 6514.5 | 6502.4 | 6441.8 | 6502.4 | 6441.8 | 6425.7 |
| 5° | 6490.3 | 6490.3 | 6530.7 | 6470.1 | 6478.2 | 6437.8 | 6478.2 | 6433.7 | 6393.4 | 6292.4 | 6264.1 |
| 7.5° | 6462.0 | 6458.0 | 6462.0 | 6377.2 | 6417.6 | 6393.4 | 6353.0 | 6304.5 | 6223.7 | 6159.1 | 6066.2 |
| 10° | 6268.2 | 6308.5 | 6264.1 | 6288.3 | 6320.7 | 6248.0 | 6243.9 | 6231.8 | 6195.5 | 6110.6 | 6054.1 |
| 12.5° | 6163.1 | 6231.8 | 6256.0 | 6235.8 | 6264.1 | 6272.2 | 6248.0 | 6231.8 | 6187.4 | 6130.8 | 5969.3 |
| 15° | 6207.6 | 6126.8 | 6195.5 | 6328.7 | 6300.5 | 6320.7 | 6324.7 | 6308.5 | 6288.3 | 6183.3 | 6078.3 |
| 17.5° | 6219.7 | 6171.2 | 6316.6 | 6344.9 | 6381.2 | 6453.9 | 6405.5 | 6401.4 | 6324.7 | 6252.0 | 6098.5 |
| 20° | 6248.0 | 6227.8 | 6344.9 | 6494.3 | 6498.4 | 6510.5 | 6534.7 | 6474.1 | 6433.7 | 6308.5 | 6074.3 |
| 22.5° | 6353.0 | 6421.6 | 6530.7 | 6595.3 | 6631.6 | 6639.7 | 6639.7 | 6518.6 | 6474.1 | 6373.2 | 6187.4 |
| 25° | 6668.0 | 6595.3 | 6748.8 | 6825.5 | 6773.0 | 6760.9 | 6732.6 | 6623.6 | 6575.1 | 6486.2 | 6239.9 |
| 27.5° | 6898.2 | 6894.2 | 6983.0 | 7088.0 | 6946.7 | 6974.9 | 6874.0 | 6841.7 | 6732.6 | 6684.1 | 6332.8 |
| 30° | 7213.2 | 7302.1 | 7298.0 | 7330.3 | 7144.6 | 7176.9 | 7047.6 | 6987.1 | 6926.5 | 6954.7 | 6607.4 |
| 32.5° | 7617.1 | 7584.8 | 7637.3 | 7613.1 | 7427.3 | 7455.5 | 7302.1 | 7209.2 | 7229.4 | 7314.2 | 6983.0 |
| 35° | 7875.6 | 7843.3 | 7863.5 | 7863.5 | 7806.9 | 7774.6 | 7710.0 | 7588.8 | 7685.8 | 7843.3 | 7403.0 |
| 37.5° | 8154.3 | 8194.6 | 8311.8 | 8287.5 | 8214.8 | 8214.8 | 8206.8 | 8121.9 | 8247.1 | 8634.9 | 8073.5 |
| 40° | 8400.6 | 8509.7 | 8582.4 | 8630.8 | 8715.6 | 8715.6 | 8784.3 | 8735.8 | 8962.0 | 9584.0 | 8893.3 |
| 42.5° | 8659.1 | 8663.1 | 9058.9 | 9095.3 | 9285.1 | 9365.9 | 9418.4 | 9458.8 | 9882.8 | 10577.5 | 9769.8 |
| 45° | 8990.3 | 9010.5 | 9357.8 | 9636.5 | 9931.3 | 9959.6 | 10157.5 | 10290.8 | 10811.8 | 11663.9 | 10722.9 |
| 47.5° | 9426.5 | 9402.2 | 9773.8 | 10218.1 | 10585.6 | 10779.4 | 11017.7 | 11163.1 | 11805.3 | 12843.3 | 11764.9 |
| 50° | 10000.0 | 9927.3 | 10141.3 | 10840.0 | 11272.2 | 11486.2 | 11910.3 | 12152.6 | 12903.8 | 13970.1 | 12479.8 |
| 52.5° | 10698.7 | 10577.5 | 10747.1 | 11510.5 | 11995.1 | 12427.3 | 12831.1 | 13101.7 | 13885.2 | 14842.4 | 13008.8 |
| 55° | 11437.8 | 11187.4 | 11235.8 | 12221.3 | 12920.0 | 13327.9 | 13881.2 | 14163.9 | 14963.6 | 15626.0 | 13537.9 |
| 57.5° | 12168.8 | 12011.3 | 11914.3 | 12903.8 | 14022.6 | 14414.3 | 14923.2 | 15290.7 | 15969.2 | 16320.6 | 13986.2 |
| 60° | 12782.7 | 12742.3 | 12584.8 | 13962.0 | 15189.8 | 15525.0 | 16058.1 | 16284.3 | 16797.2 | 16962.8 | 13994.3 |
| 62.5° | 13287.5 | 13150.2 | 13400.6 | 14814.2 | 16377.2 | 16756.8 | 17342.4 | 17362.6 | 17726.1 | 17362.6 | 13582.3 |
| 65° | 13683.3 | 13691.4 | 14091.2 | 15844.0 | 17750.3 | 18311.7 | 18784.3 | 18731.8 | 18497.5 | 17124.3 | 12609.0 |
| 67.5° | 14042.8 | 14196.2 | 14781.9 | 16974.9 | 19515.3 | 20044.4 | 20569.4 | 19874.7 | 18707.5 | 16009.6 | 10706.7 |
| 70° | 14325.5 | 14478.9 | 15714.8 | 18352.1 | 21595.2 | 22370.7 | 22487.8 | 20327.1 | 17742.3 | 13562.1 | 8077.5 |
| 72.5° | 14293.2 | 14571.8 | 16243.9 | 19450.7 | 23441.0 | 24111.4 | 23166.3 | 19054.9 | 14781.9 | 9454.7 | 4713.2 |
| 73° | 14361.8 | 14499.1 | 16199.5 | 19757.6 | 24002.3 | 24337.6 | 22851.3 | 18655.0 | 13941.8 | 8481.4 | 3986.3 |
| 75° | 13037.1 | 13501.6 | 15395.7 | 19256.8 | 23400.6 | 23340.0 | 21041.9 | 15545.2 | 9911.1 | 4454.7 | 1930.5 |
| 77.5° | 9644.6 | 9939.4 | 12132.4 | 15836.0 | 19208.3 | 18820.6 | 15872.3 | 9935.3 | 4705.2 | 1651.9 | 1042.0 |
| 80° | 4713.2 | 4943.4 | 6429.7 | 9143.7 | 12560.5 | 12592.8 | 9850.5 | 5169.6 | 2015.3 | 933.0 | 710.8 |
| 82.5° | 2354.6 | 2491.9 | 3089.6 | 4018.6 | 6179.3 | 6474.1 | 4995.9 | 2940.2 | 1248.0 | 529.1 | 403.9 |
| 85° | 1538.8 | 1635.7 | 1902.3 | 1966.9 | 2621.2 | 2766.5 | 2326.3 | 2294.0 | 811.8 | 286.8 | 327.1 |
| 87.5° | 1021.8 | 1038.0 | 1167.2 | 993.5 | 1050.1 | 1009.7 | 1122.8 | 1445.9 | 238.3 | 121.2 | 88.9 |
| 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° | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 | 6425.7 |
| 2.5° | 6405.5 | 6348.9 | 6288.3 | 6203.5 | 6143.0 | 6050.1 | 5965.2 | 5928.9 | 5920.8 | 5924.9 | 5884.5 |
| 5° | 6239.9 | 6159.1 | 6037.9 | 5864.3 | 5763.3 | 5609.8 | 5480.6 | 5411.9 | 5339.2 | 5351.4 | 5319.0 |
| 7.5° | 6009.7 | 5920.8 | 5735.0 | 5533.1 | 5282.7 | 5064.6 | 4943.4 | 4773.8 | 4676.9 | 4604.2 | 4644.6 |
| 10° | 5937.0 | 5783.5 | 5504.8 | 5226.2 | 4838.4 | 4551.7 | 4273.0 | 4079.1 | 3945.9 | 3816.6 | 3873.2 |
| 12.5° | 5900.6 | 5747.2 | 5359.4 | 4947.5 | 4446.7 | 4010.5 | 3618.7 | 3380.4 | 3190.6 | 3077.5 | 3122.0 |
| 15° | 5868.3 | 5678.5 | 5222.1 | 4640.5 | 4079.1 | 3505.6 | 3065.4 | 2750.4 | 2568.7 | 2459.6 | 2471.7 |
| 17.5° | 5912.7 | 5642.1 | 5020.2 | 4341.7 | 3675.3 | 3061.4 | 2572.7 | 2245.5 | 2059.8 | 1991.1 | 1975.0 |
| 20° | 5868.3 | 5601.8 | 4822.3 | 4042.8 | 3271.4 | 2637.3 | 2168.8 | 1898.2 | 1769.0 | 1712.4 | 1700.3 |
| 22.5° | 5884.5 | 5504.8 | 4616.3 | 3711.6 | 2895.8 | 2281.9 | 1898.2 | 1692.2 | 1591.3 | 1563.0 | 1571.1 |
| 25° | 5961.2 | 5448.3 | 4410.3 | 3348.1 | 2524.2 | 2019.4 | 1724.5 | 1567.0 | 1494.3 | 1466.1 | 1474.1 |
| 27.5° | 6017.7 | 5496.7 | 4224.5 | 3004.8 | 2209.2 | 1785.1 | 1579.2 | 1474.1 | 1425.7 | 1405.5 | 1401.4 |
| 30° | 6159.1 | 5525.0 | 4042.8 | 2697.9 | 1950.7 | 1631.7 | 1478.2 | 1393.4 | 1361.1 | 1348.9 | 1344.9 |
| 32.5° | 6369.1 | 5577.5 | 3832.8 | 2415.2 | 1760.9 | 1486.3 | 1397.4 | 1324.7 | 1316.6 | 1304.5 | 1308.6 |
| 35° | 6712.4 | 5759.3 | 3598.5 | 2172.9 | 1579.2 | 1389.3 | 1312.6 | 1264.1 | 1264.1 | 1264.1 | 1276.2 |
| 37.5° | 7205.1 | 6013.7 | 3388.5 | 1942.6 | 1462.0 | 1304.5 | 1239.9 | 1223.7 | 1215.7 | 1227.8 | 1235.9 |
| 40° | 7839.2 | 6320.7 | 3218.9 | 1760.9 | 1361.1 | 1248.0 | 1191.4 | 1183.4 | 1179.3 | 1175.3 | 1183.4 |
| 42.5° | 8533.9 | 6712.4 | 3073.5 | 1619.5 | 1288.4 | 1187.4 | 1147.0 | 1138.9 | 1122.8 | 1130.9 | 1143.0 |
| 45° | 9224.5 | 7197.1 | 2944.3 | 1506.5 | 1239.9 | 1155.1 | 1098.5 | 1094.5 | 1086.4 | 1082.4 | 1102.6 |
| 47.5° | 9991.9 | 7673.6 | 2903.9 | 1437.8 | 1203.5 | 1106.6 | 1066.2 | 1062.2 | 1038.0 | 1033.9 | 1050.1 |
| 50° | 10589.6 | 8025.0 | 2948.3 | 1405.5 | 1151.0 | 1070.3 | 1042.0 | 1021.8 | 1001.6 | 981.4 | 981.4 |
| 52.5° | 11001.6 | 8267.3 | 2980.6 | 1381.3 | 1122.8 | 1021.8 | 985.5 | 977.4 | 957.2 | 937.0 | 928.9 |
| 55° | 11373.1 | 8412.7 | 2988.7 | 1385.3 | 1094.5 | 965.3 | 941.0 | 937.0 | 924.9 | 892.6 | 884.5 |
| 57.5° | 11498.3 | 8352.2 | 2827.1 | 1348.9 | 1078.3 | 928.9 | 896.6 | 904.7 | 888.5 | 860.3 | 856.2 |
| 60° | 11486.2 | 7932.1 | 2459.6 | 1300.5 | 1042.0 | 888.5 | 848.1 | 872.4 | 872.4 | 840.1 | 836.0 |
| 62.5° | 10787.5 | 6962.8 | 2011.3 | 1207.6 | 1001.6 | 848.1 | 803.7 | 840.1 | 852.2 | 832.0 | 827.9 |
| 65° | 9337.6 | 5670.4 | 1680.1 | 1114.7 | 941.0 | 803.7 | 759.3 | 799.7 | 819.9 | 811.8 | 807.8 |
| 67.5° | 7726.1 | 4337.6 | 1397.4 | 993.5 | 864.3 | 743.1 | 706.8 | 735.1 | 747.2 | 751.2 | 755.2 |
| 70° | 5460.4 | 2887.7 | 1167.2 | 860.3 | 759.3 | 678.5 | 638.1 | 642.2 | 638.1 | 650.2 | 650.2 |
| 72.5° | 2968.5 | 1664.0 | 949.1 | 731.0 | 654.3 | 589.7 | 561.4 | 541.2 | 541.2 | 537.2 | 537.2 |
| 73° | 2540.4 | 1494.3 | 904.7 | 710.8 | 626.0 | 573.5 | 541.2 | 525.0 | 525.0 | 521.0 | 517.0 |
| 75° | 1425.7 | 1094.5 | 775.4 | 609.9 | 541.2 | 500.8 | 476.6 | 452.3 | 448.3 | 448.3 | 448.3 |
| 77.5° | 937.0 | 852.2 | 617.9 | 488.7 | 436.2 | 399.8 | 391.8 | 367.5 | 367.5 | 367.5 | 363.5 |
| 80° | 702.7 | 670.4 | 476.6 | 371.6 | 335.2 | 306.9 | 298.9 | 282.7 | 278.7 | 262.5 | 266.6 |
| 82.5° | 468.5 | 529.1 | 347.3 | 262.5 | 226.2 | 210.0 | 210.0 | 206.0 | 193.9 | 173.7 | 173.7 |
| 85° | 371.6 | 432.1 | 250.4 | 161.6 | 133.3 | 113.1 | 117.1 | 113.1 | 109.0 | 88.9 | 84.8 |
| 87.5° | 68.7 | 173.7 | 72.7 | 44.4 | 32.3 | 20.2 | 20.2 | 12.1 | 8.1 | 0.0 | 0.0 |
| 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)