

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: P480958

Luminaire Tested: **IFLD-L-SA8D-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

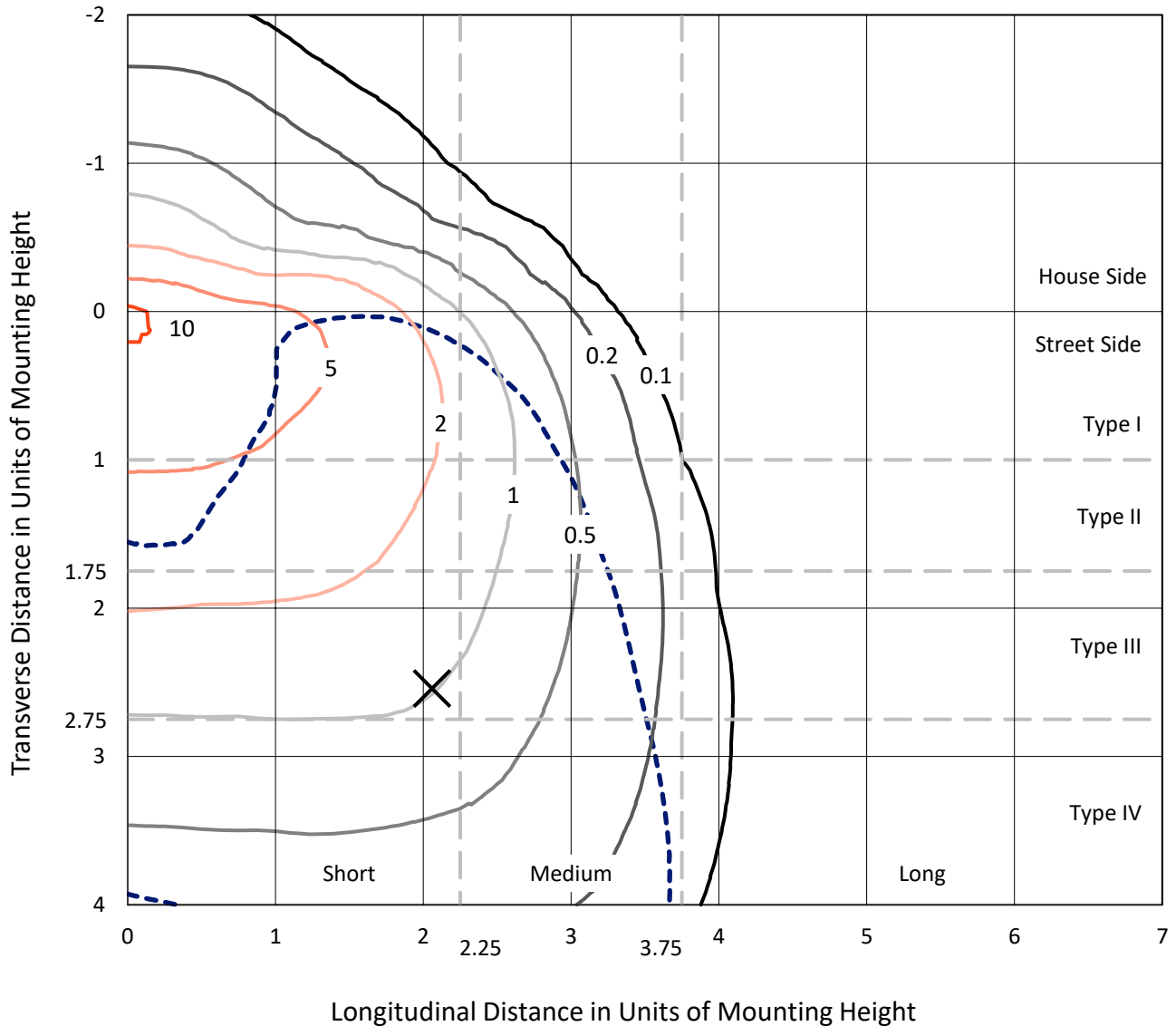
Lumens per Lamp: N/A
Luminaire Lumens: 55158.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

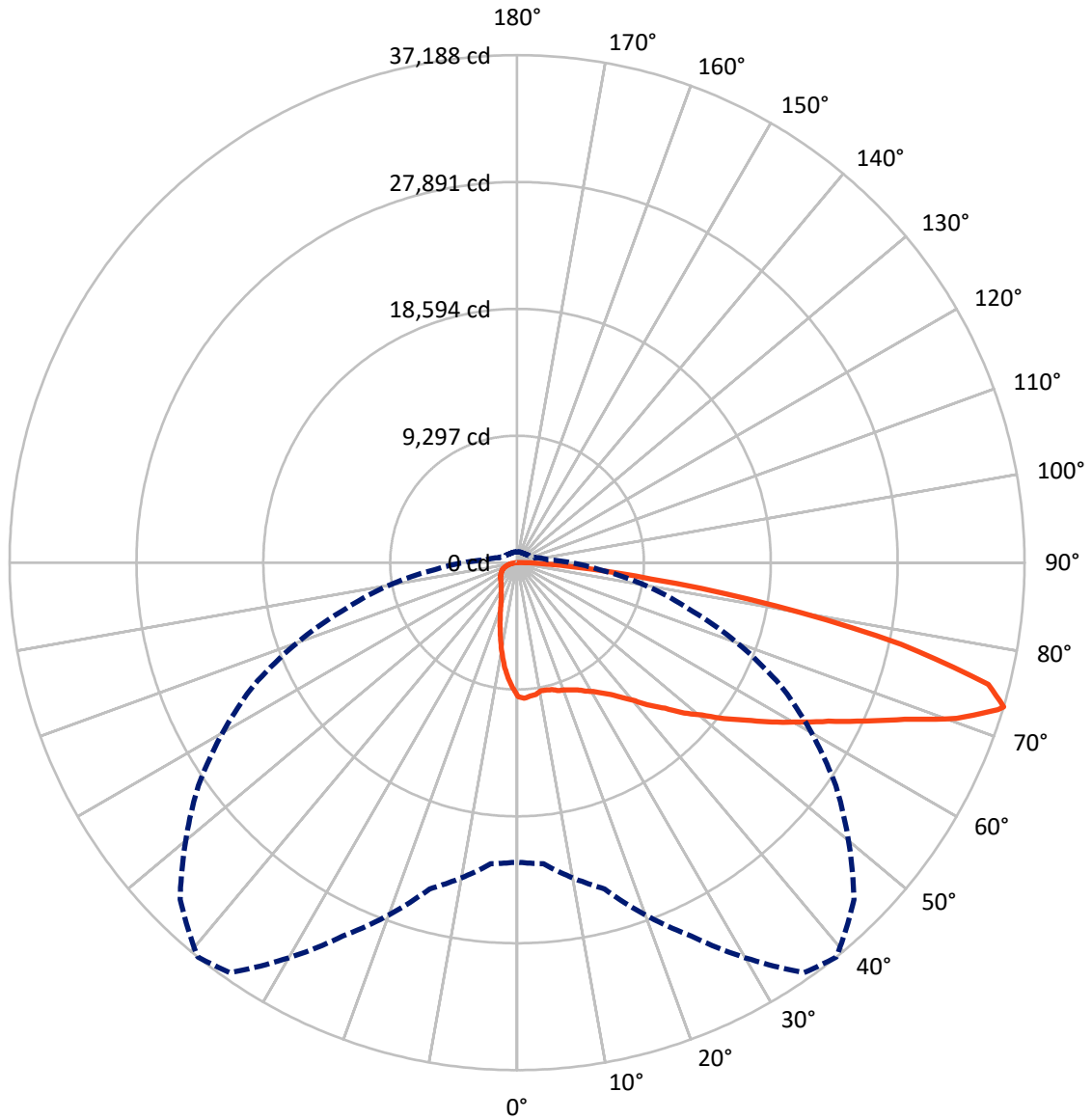
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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 | 7753.7 | 0.0 | 7753.7 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 47404.7 | 0.0 | 47404.7 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 55158.4 | 0.0 | 55158.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 852.3 | 1.5 |
| 10°-20° | 2166.7 | 3.9 |
| 20°-30° | 3311.0 | 6.0 |
| 30°-40° | 4827.5 | 8.8 |
| 40°-50° | 7294.9 | 13.2 |
| 50°-60° | 10563.5 | 19.2 |
| 60°-70° | 13421.4 | 24.3 |
| 70°-80° | 10880.1 | 19.7 |
| 80°-90° | 1840.9 | 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° | 55158.4 | 100.0 |
| 0°-180° | 55158.4 | 100.0 |

Coefficient of Utilization



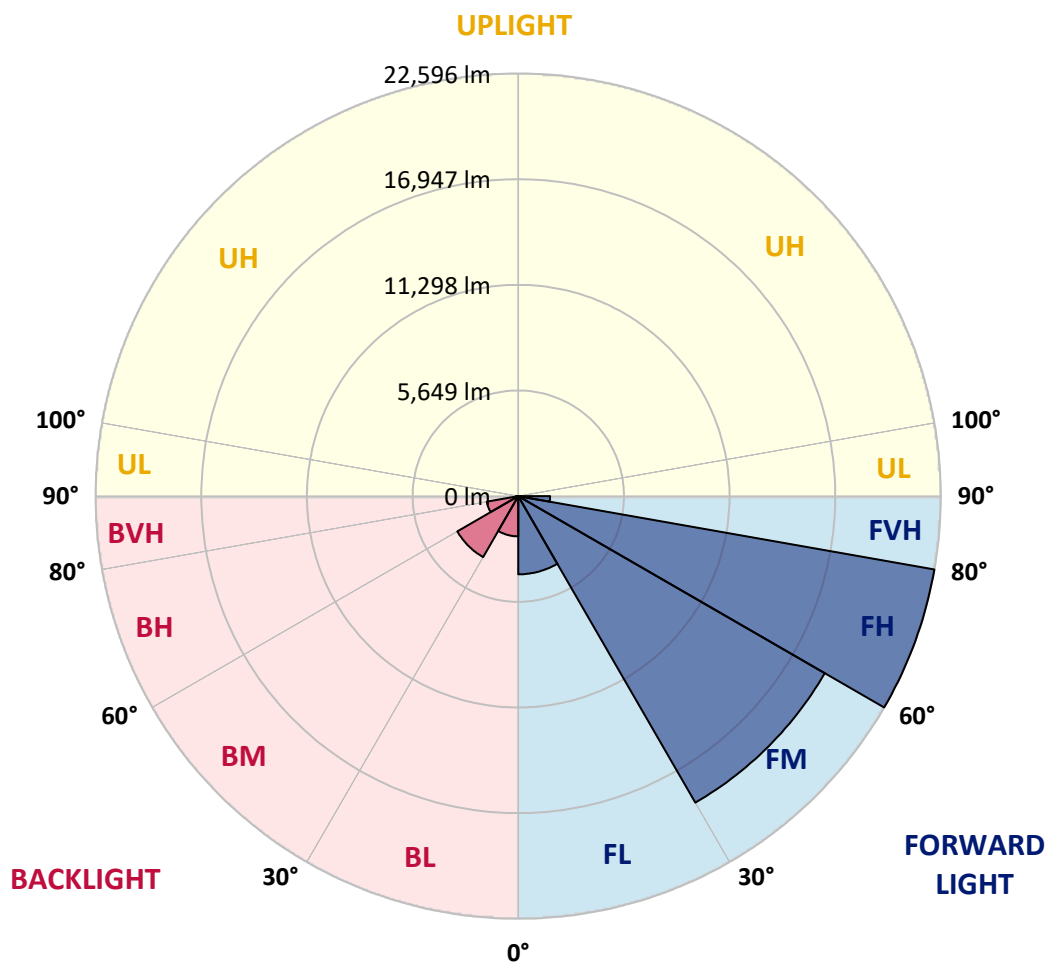
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4179.8 | 7.6 | | | |
| FM (30°-60°) | 18922.9 | 34.3 | | | |
| FH (60°-80°) | 22596.2 | 41.0 | | | G5 |
| FVH (80°-90°) | 1705.8 | 3.1 | | | G5 |
| BL (0°-30°) | 2150.3 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3763.1 | 6.8 | B3/5000 | | |
| BH (60°-80°) | 1705.3 | 3.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.1 | 0.2 | | | G2/225 |
| 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° | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 |
| 2.5° | 10053.0 | 9948.1 | 9966.6 | 9929.6 | 9966.6 | 9954.3 | 9935.8 | 9843.2 | 9935.8 | 9843.2 | 9818.5 |
| 5° | 9917.3 | 9917.3 | 9979.0 | 9886.4 | 9898.8 | 9837.1 | 9898.8 | 9830.9 | 9769.2 | 9614.9 | 9571.7 |
| 7.5° | 9874.1 | 9867.9 | 9874.1 | 9744.5 | 9806.2 | 9769.2 | 9707.5 | 9633.4 | 9510.0 | 9411.2 | 9269.3 |
| 10° | 9577.9 | 9639.6 | 9571.7 | 9608.7 | 9658.1 | 9547.0 | 9540.8 | 9522.3 | 9466.8 | 9337.2 | 9250.8 |
| 12.5° | 9417.4 | 9522.3 | 9559.3 | 9528.5 | 9571.7 | 9584.0 | 9547.0 | 9522.3 | 9454.4 | 9368.0 | 9121.2 |
| 15° | 9485.3 | 9361.9 | 9466.8 | 9670.4 | 9627.2 | 9658.1 | 9664.3 | 9639.6 | 9608.7 | 9448.3 | 9287.8 |
| 17.5° | 9503.8 | 9429.7 | 9651.9 | 9695.1 | 9750.7 | 9861.7 | 9787.7 | 9781.5 | 9664.3 | 9553.2 | 9318.7 |
| 20° | 9547.0 | 9516.1 | 9695.1 | 9923.4 | 9929.6 | 9948.1 | 9985.2 | 9892.6 | 9830.9 | 9639.6 | 9281.6 |
| 22.5° | 9707.5 | 9812.4 | 9979.0 | 10077.7 | 10133.3 | 10145.6 | 10145.6 | 9960.5 | 9892.6 | 9738.3 | 9454.4 |
| 25° | 10188.8 | 10077.7 | 10312.2 | 10429.5 | 10349.3 | 10330.8 | 10287.6 | 10120.9 | 10046.9 | 9911.1 | 9534.7 |
| 27.5° | 10540.6 | 10534.4 | 10670.2 | 10830.6 | 10614.6 | 10657.8 | 10503.6 | 10454.2 | 10287.6 | 10213.5 | 9676.6 |
| 30° | 11021.9 | 11157.7 | 11151.5 | 11200.9 | 10917.0 | 10966.4 | 10768.9 | 10676.3 | 10583.8 | 10627.0 | 10096.2 |
| 32.5° | 11639.1 | 11589.7 | 11669.9 | 11632.9 | 11349.0 | 11392.2 | 11157.7 | 11015.8 | 11046.6 | 11176.2 | 10670.2 |
| 35° | 12034.0 | 11984.7 | 12015.5 | 12015.5 | 11929.1 | 11879.8 | 11781.0 | 11595.9 | 11744.0 | 11984.7 | 11312.0 |
| 37.5° | 12459.9 | 12521.6 | 12700.5 | 12663.5 | 12552.4 | 12552.4 | 12540.1 | 12410.5 | 12601.8 | 13194.2 | 12336.4 |
| 40° | 12836.3 | 13002.9 | 13114.0 | 13188.1 | 13317.7 | 13317.7 | 13422.6 | 13348.5 | 13694.1 | 14644.5 | 13589.2 |
| 42.5° | 13231.3 | 13237.4 | 13842.2 | 13897.8 | 14187.8 | 14311.2 | 14391.5 | 14453.2 | 15101.2 | 16162.6 | 14928.4 |
| 45° | 13737.3 | 13768.2 | 14298.9 | 14724.7 | 15175.2 | 15218.4 | 15520.8 | 15724.5 | 16520.6 | 17822.7 | 16384.8 |
| 47.5° | 14403.8 | 14366.8 | 14934.5 | 15613.4 | 16175.0 | 16471.2 | 16835.3 | 17057.5 | 18038.7 | 19624.7 | 17977.0 |
| 50° | 15280.1 | 15169.1 | 15496.1 | 16563.8 | 17224.1 | 17551.2 | 18199.2 | 18569.4 | 19717.3 | 21346.5 | 19069.3 |
| 52.5° | 16347.8 | 16162.6 | 16421.8 | 17588.2 | 18328.8 | 18989.1 | 19606.2 | 20019.7 | 21216.9 | 22679.5 | 19877.8 |
| 55° | 17477.1 | 17094.5 | 17168.6 | 18674.4 | 19742.0 | 20365.3 | 21210.8 | 21642.7 | 22864.7 | 23876.8 | 20686.2 |
| 57.5° | 18594.1 | 18353.4 | 18205.3 | 19717.3 | 21426.8 | 22025.4 | 22802.9 | 23364.5 | 24401.3 | 24938.2 | 21371.2 |
| 60° | 19532.2 | 19470.4 | 19229.8 | 21334.2 | 23210.3 | 23722.5 | 24537.1 | 24882.7 | 25666.4 | 25919.5 | 21383.6 |
| 62.5° | 20303.6 | 20093.7 | 20476.4 | 22636.3 | 25024.6 | 25604.7 | 26499.6 | 26530.4 | 27085.8 | 26530.4 | 20754.1 |
| 65° | 20908.4 | 20920.7 | 21531.7 | 24210.0 | 27122.9 | 27980.7 | 28702.7 | 28622.5 | 28264.5 | 26166.3 | 19266.8 |
| 67.5° | 21457.6 | 21692.1 | 22587.0 | 25938.0 | 29819.7 | 30628.2 | 31430.4 | 30369.0 | 28585.5 | 24463.0 | 16360.1 |
| 70° | 21889.6 | 22124.1 | 24012.5 | 28042.4 | 32997.9 | 34182.8 | 34361.8 | 31060.1 | 27110.5 | 20723.2 | 12342.6 |
| 72.5° | 21840.2 | 22266.0 | 24821.0 | 29721.0 | 35818.2 | 36842.7 | 35398.6 | 29116.2 | 22587.0 | 14447.0 | 7201.9 |
| 73° | 21945.1 | 22155.0 | 24753.1 | 30190.0 | 36676.0 | 37188.2 | 34917.2 | 28505.2 | 21303.3 | 12959.7 | 6091.1 |
| 75° | 19921.0 | 20630.7 | 23525.0 | 29424.8 | 35756.5 | 35663.9 | 32152.5 | 23753.3 | 15144.4 | 6806.9 | 2949.9 |
| 77.5° | 14737.1 | 15187.6 | 18538.6 | 24197.7 | 29350.7 | 28758.3 | 24253.2 | 15181.4 | 7189.6 | 2524.1 | 1592.2 |
| 80° | 7201.9 | 7553.7 | 9824.7 | 13971.8 | 19192.7 | 19242.1 | 15051.8 | 7899.3 | 3079.5 | 1425.6 | 1086.1 |
| 82.5° | 3597.9 | 3807.7 | 4721.0 | 6140.4 | 9442.1 | 9892.6 | 7633.9 | 4492.7 | 1906.9 | 808.4 | 617.1 |
| 85° | 2351.3 | 2499.4 | 2906.7 | 3005.4 | 4005.2 | 4227.3 | 3554.7 | 3505.3 | 1240.4 | 438.2 | 499.9 |
| 87.5° | 1561.3 | 1586.0 | 1783.5 | 1518.1 | 1604.5 | 1542.8 | 1715.6 | 2209.3 | 364.1 | 185.1 | 135.8 |
| 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° | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 | 9818.5 |
| 2.5° | 9787.7 | 9701.3 | 9608.7 | 9479.1 | 9386.5 | 9244.6 | 9115.0 | 9059.5 | 9047.1 | 9053.3 | 8991.6 |
| 5° | 9534.7 | 9411.2 | 9226.1 | 8960.7 | 8806.4 | 8571.9 | 8374.5 | 8269.5 | 8158.5 | 8177.0 | 8127.6 |
| 7.5° | 9182.9 | 9047.1 | 8763.2 | 8454.7 | 8072.1 | 7738.8 | 7553.7 | 7294.5 | 7146.4 | 7035.3 | 7097.0 |
| 10° | 9071.8 | 8837.3 | 8411.5 | 7985.7 | 7393.2 | 6955.1 | 6529.2 | 6233.0 | 6029.4 | 5831.9 | 5918.3 |
| 12.5° | 9016.3 | 8781.8 | 8189.3 | 7559.8 | 6794.6 | 6128.1 | 5529.5 | 5165.4 | 4875.3 | 4702.5 | 4770.4 |
| 15° | 8966.9 | 8676.8 | 7979.5 | 7090.8 | 6233.0 | 5356.7 | 4684.0 | 4202.7 | 3924.9 | 3758.3 | 3776.8 |
| 17.5° | 9034.8 | 8621.3 | 7670.9 | 6634.1 | 5615.9 | 4677.8 | 3931.1 | 3431.2 | 3147.4 | 3042.5 | 3017.8 |
| 20° | 8966.9 | 8559.6 | 7368.5 | 6177.5 | 4998.8 | 4029.9 | 3314.0 | 2900.5 | 2703.0 | 2616.6 | 2598.1 |
| 22.5° | 8991.6 | 8411.5 | 7053.8 | 5671.4 | 4424.8 | 3486.8 | 2900.5 | 2585.8 | 2431.5 | 2388.3 | 2400.6 |
| 25° | 9108.8 | 8325.1 | 6739.1 | 5116.0 | 3857.1 | 3085.6 | 2635.1 | 2394.5 | 2283.4 | 2240.2 | 2252.5 |
| 27.5° | 9195.2 | 8399.1 | 6455.2 | 4591.4 | 3375.7 | 2727.7 | 2413.0 | 2252.5 | 2178.5 | 2147.6 | 2141.4 |
| 30° | 9411.2 | 8442.3 | 6177.5 | 4122.4 | 2980.7 | 2493.2 | 2258.7 | 2129.1 | 2079.7 | 2061.2 | 2055.0 |
| 32.5° | 9732.1 | 8522.6 | 5856.6 | 3690.4 | 2690.7 | 2271.0 | 2135.3 | 2024.2 | 2011.8 | 1993.3 | 1999.5 |
| 35° | 10256.7 | 8800.3 | 5498.6 | 3320.2 | 2413.0 | 2122.9 | 2005.7 | 1931.6 | 1931.6 | 1931.6 | 1950.1 |
| 37.5° | 11009.6 | 9189.1 | 5177.7 | 2968.4 | 2234.0 | 1993.3 | 1894.6 | 1869.9 | 1857.6 | 1876.1 | 1888.4 |
| 40° | 11978.5 | 9658.1 | 4918.5 | 2690.7 | 2079.7 | 1906.9 | 1820.5 | 1808.2 | 1802.0 | 1795.8 | 1808.2 |
| 42.5° | 13040.0 | 10256.7 | 4696.4 | 2474.7 | 1968.6 | 1814.4 | 1752.6 | 1740.3 | 1715.6 | 1728.0 | 1746.5 |
| 45° | 14095.2 | 10997.3 | 4498.9 | 2301.9 | 1894.6 | 1765.0 | 1678.6 | 1672.4 | 1660.1 | 1653.9 | 1684.8 |
| 47.5° | 15267.8 | 11725.5 | 4437.2 | 2197.0 | 1839.0 | 1690.9 | 1629.2 | 1623.1 | 1586.0 | 1579.9 | 1604.5 |
| 50° | 16181.1 | 12262.4 | 4505.0 | 2147.6 | 1758.8 | 1635.4 | 1592.2 | 1561.3 | 1530.5 | 1499.6 | 1499.6 |
| 52.5° | 16810.6 | 12632.6 | 4554.4 | 2110.6 | 1715.6 | 1561.3 | 1505.8 | 1493.5 | 1462.6 | 1431.7 | 1419.4 |
| 55° | 17378.4 | 12854.8 | 4566.8 | 2116.8 | 1672.4 | 1474.9 | 1437.9 | 1431.7 | 1413.2 | 1363.9 | 1351.5 |
| 57.5° | 17569.7 | 12762.2 | 4319.9 | 2061.2 | 1647.7 | 1419.4 | 1370.0 | 1382.4 | 1357.7 | 1314.5 | 1308.3 |
| 60° | 17551.2 | 12120.4 | 3758.3 | 1987.2 | 1592.2 | 1357.7 | 1296.0 | 1333.0 | 1333.0 | 1283.6 | 1277.5 |
| 62.5° | 16483.5 | 10639.3 | 3073.3 | 1845.2 | 1530.5 | 1296.0 | 1228.1 | 1283.6 | 1302.1 | 1271.3 | 1265.1 |
| 65° | 14268.0 | 8664.5 | 2567.3 | 1703.3 | 1437.9 | 1228.1 | 1160.2 | 1221.9 | 1252.8 | 1240.4 | 1234.3 |
| 67.5° | 11805.7 | 6628.0 | 2135.3 | 1518.1 | 1320.7 | 1135.5 | 1080.0 | 1123.2 | 1141.7 | 1147.9 | 1154.0 |
| 70° | 8343.6 | 4412.5 | 1783.5 | 1314.5 | 1160.2 | 1036.8 | 975.1 | 981.2 | 975.1 | 993.6 | 993.6 |
| 72.5° | 4535.9 | 2542.6 | 1450.3 | 1117.0 | 999.8 | 901.0 | 857.8 | 827.0 | 827.0 | 820.8 | 820.8 |
| 73° | 3881.7 | 2283.4 | 1382.4 | 1086.1 | 956.6 | 876.3 | 827.0 | 802.3 | 802.3 | 796.1 | 789.9 |
| 75° | 2178.5 | 1672.4 | 1184.9 | 931.9 | 827.0 | 765.2 | 728.2 | 691.2 | 685.0 | 685.0 | 685.0 |
| 77.5° | 1431.7 | 1302.1 | 944.2 | 746.7 | 666.5 | 611.0 | 598.6 | 561.6 | 561.6 | 561.6 | 555.4 |
| 80° | 1073.8 | 1024.4 | 728.2 | 567.8 | 512.2 | 469.0 | 456.7 | 432.0 | 425.8 | 401.1 | 407.3 |
| 82.5° | 715.9 | 808.4 | 530.7 | 401.1 | 345.6 | 320.9 | 320.9 | 314.7 | 296.2 | 265.4 | 265.4 |
| 85° | 567.8 | 660.3 | 382.6 | 246.9 | 203.7 | 172.8 | 179.0 | 172.8 | 166.6 | 135.8 | 129.6 |
| 87.5° | 104.9 | 265.4 | 111.1 | 67.9 | 49.4 | 30.9 | 30.9 | 18.5 | 12.3 | 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)