

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: P477055

Luminaire Tested: **IFLD-L-SA8A-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

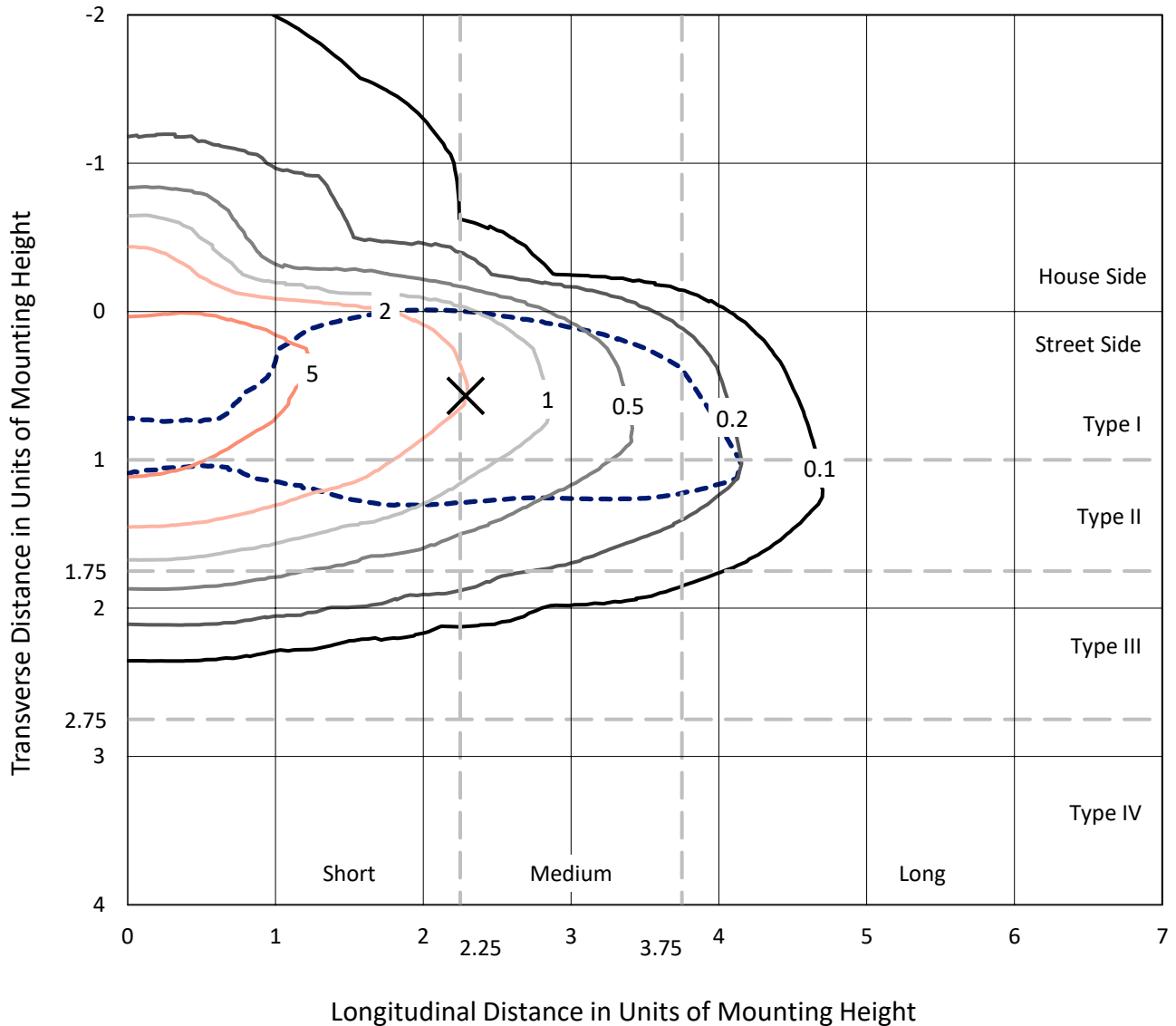
Lumens per Lamp: N/A
Luminaire Lumens: 35237.7 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

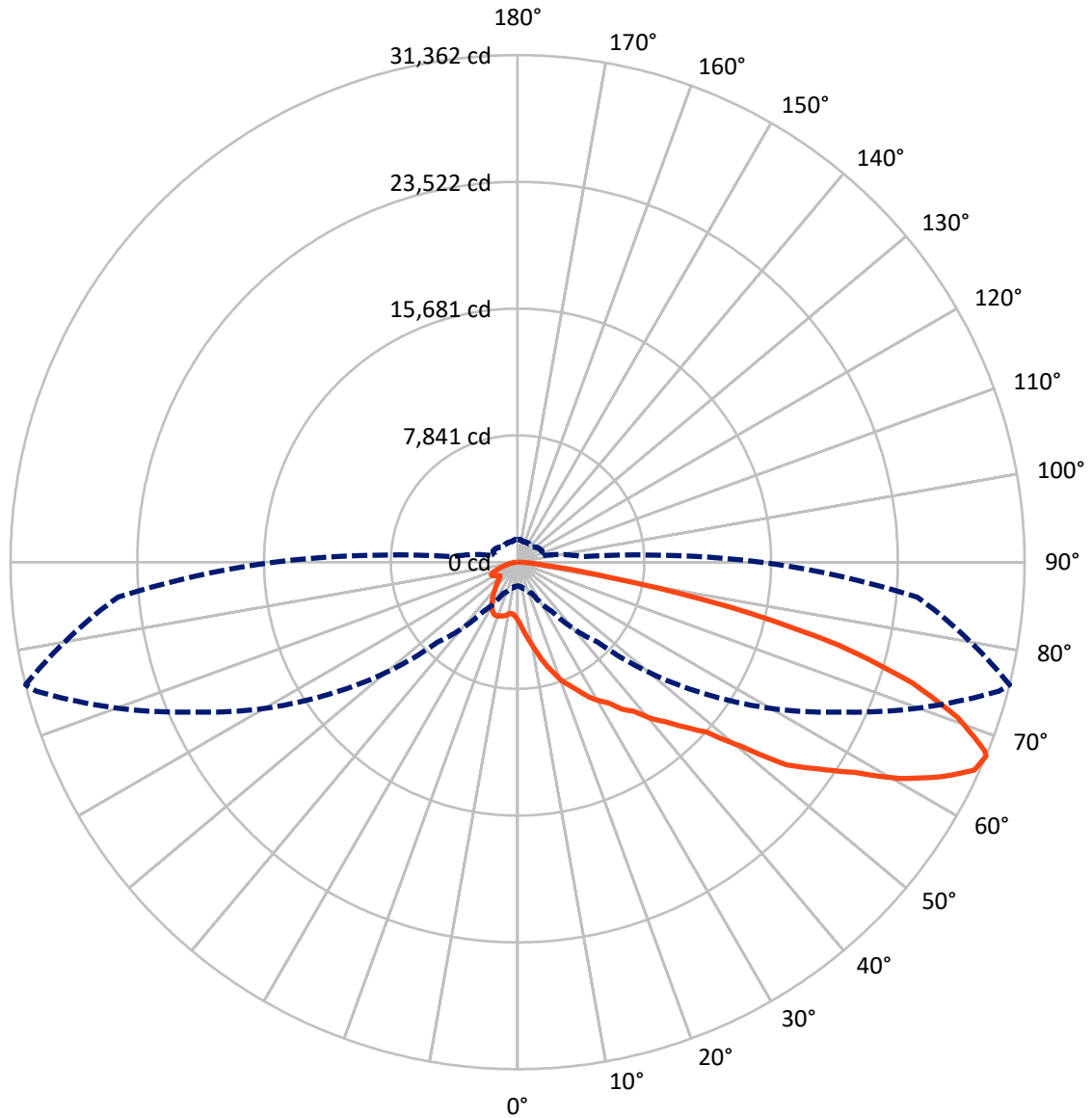
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5013.0 | 0.0 | 5013.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 30224.7 | 0.0 | 30224.7 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 35237.7 | 0.0 | 35237.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 417.7 | 1.2 |
| 10°-20° | 1566.6 | 4.4 |
| 20°-30° | 2912.6 | 8.3 |
| 30°-40° | 4617.1 | 13.1 |
| 40°-50° | 6385.8 | 18.1 |
| 50°-60° | 7854.9 | 22.3 |
| 60°-70° | 7309.4 | 20.7 |
| 70°-80° | 3667.8 | 10.4 |
| 80°-90° | 505.7 | 1.4 |
| 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° | 35237.7 | 100.0 |
| 0°-180° | 35237.7 | 100.0 |

Coefficient of Utilization



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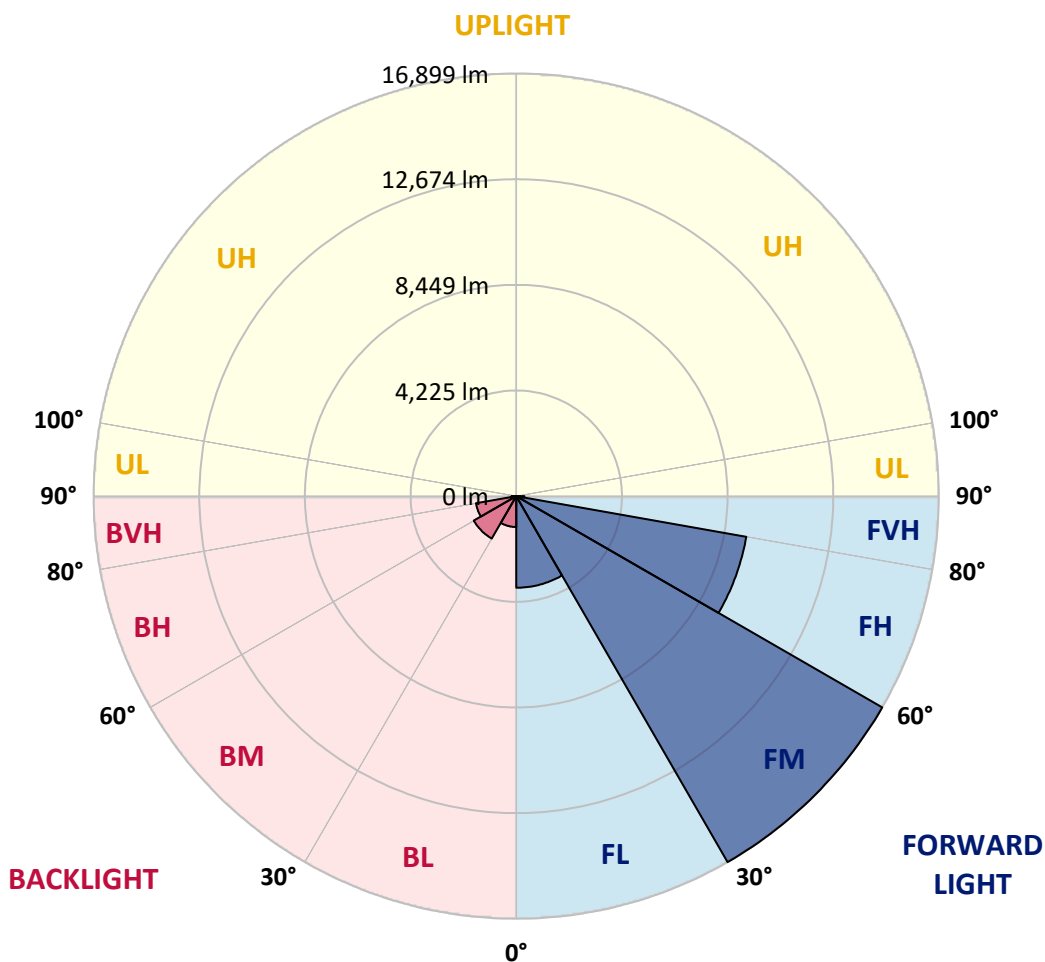
CATALOG NUMBER: IFLD-L-SA8A-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3662.4 | 10.4 | | | |
| FM (30°-60°) | 16898.8 | 48.0 | | | |
| FH (60°-80°) | 9341.2 | 26.5 | | | G4/12000 |
| FVH (80°-90°) | 322.2 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1234.5 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 1959.0 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1636.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 183.5 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 |
| 2.5° | 5003.5 | 4943.2 | 4883.0 | 4754.5 | 4710.3 | 4589.9 | 4369.0 | 4124.0 | 3923.3 | 3895.2 | 3754.6 |
| 5° | 6208.2 | 6119.8 | 6099.7 | 6027.5 | 5798.6 | 5565.7 | 5204.3 | 4810.7 | 4320.8 | 4357.0 | 3875.1 |
| 7.5° | 7111.7 | 7059.5 | 6951.1 | 6882.8 | 6746.3 | 6437.1 | 6063.6 | 5541.6 | 4919.1 | 4798.7 | 4144.1 |
| 10° | 7794.3 | 7722.1 | 7718.0 | 7657.8 | 7585.5 | 7268.3 | 6983.2 | 6280.4 | 5481.3 | 5316.7 | 4473.4 |
| 12.5° | 8139.7 | 8127.6 | 8340.5 | 8340.5 | 8312.3 | 8179.8 | 7689.9 | 7047.4 | 6015.4 | 5959.2 | 4854.9 |
| 15° | 8513.1 | 8412.7 | 8597.5 | 8738.0 | 8810.3 | 8878.6 | 8473.0 | 7794.3 | 6698.1 | 6589.6 | 5264.5 |
| 17.5° | 8513.1 | 8505.1 | 8689.8 | 8922.7 | 9300.2 | 9388.5 | 9167.7 | 8481.0 | 7264.3 | 7184.0 | 5714.2 |
| 20° | 8368.6 | 8485.0 | 8613.5 | 8926.7 | 9336.3 | 9693.7 | 9758.0 | 9183.7 | 7890.7 | 7826.5 | 6224.2 |
| 22.5° | 9043.2 | 8930.8 | 9063.3 | 9183.7 | 9501.0 | 10043.1 | 10219.8 | 9802.1 | 8549.3 | 8304.3 | 6686.0 |
| 25° | 10175.6 | 10099.3 | 10002.9 | 9826.2 | 9958.8 | 10195.7 | 10464.7 | 10259.9 | 9111.5 | 8838.4 | 7131.8 |
| 27.5° | 11279.9 | 11283.9 | 11075.1 | 10689.6 | 10404.5 | 10452.7 | 10769.9 | 10661.5 | 9585.3 | 9464.8 | 7436.9 |
| 30° | 12850.0 | 12753.6 | 12520.7 | 11998.7 | 11440.5 | 10982.7 | 10930.5 | 11034.9 | 10187.6 | 9954.7 | 7874.6 |
| 32.5° | 14026.6 | 14046.7 | 13717.4 | 12966.5 | 12203.5 | 11830.0 | 11372.3 | 11416.4 | 10569.1 | 10396.5 | 8224.0 |
| 35° | 14978.3 | 14954.2 | 14721.3 | 14098.9 | 13195.4 | 12745.6 | 12127.2 | 11874.2 | 11456.6 | 11183.5 | 8758.1 |
| 37.5° | 16006.3 | 15809.5 | 15432.1 | 14729.3 | 14151.1 | 13528.7 | 12926.3 | 12356.1 | 12046.9 | 11717.6 | 9215.9 |
| 40° | 16419.9 | 16419.9 | 15913.9 | 15592.7 | 14906.0 | 14436.2 | 14046.7 | 12990.6 | 12765.7 | 12701.4 | 9802.1 |
| 42.5° | 16126.8 | 16307.5 | 16098.7 | 15733.2 | 15452.1 | 14857.8 | 14753.4 | 13649.1 | 13653.1 | 13524.6 | 10504.9 |
| 45° | 16098.7 | 15849.7 | 15677.0 | 15769.4 | 15636.9 | 15604.7 | 15869.8 | 14560.7 | 14584.8 | 14568.7 | 11448.6 |
| 47.5° | 15291.5 | 15179.1 | 15436.1 | 15588.7 | 15697.1 | 16195.0 | 16958.0 | 15648.9 | 15821.6 | 15701.1 | 12536.8 |
| 50° | 14488.4 | 14468.3 | 14628.9 | 15183.1 | 15652.9 | 16472.1 | 17994.0 | 17327.4 | 17893.6 | 17885.6 | 14508.5 |
| 52.5° | 12287.8 | 12500.6 | 13131.1 | 14303.7 | 15464.2 | 16849.6 | 18777.1 | 19471.8 | 20552.0 | 20845.1 | 16142.8 |
| 55° | 10183.6 | 10071.2 | 11002.8 | 12705.4 | 14641.0 | 16998.2 | 19652.5 | 20760.8 | 22351.0 | 22563.8 | 17821.4 |
| 57.5° | 7922.8 | 8131.6 | 8866.5 | 10500.9 | 12938.4 | 16263.3 | 20295.0 | 22033.8 | 24382.9 | 24547.5 | 19768.9 |
| 60° | 5911.0 | 5939.1 | 6746.3 | 8063.4 | 10673.5 | 14604.8 | 20503.8 | 23338.8 | 26712.0 | 27181.8 | 21808.9 |
| 62.5° | 3718.5 | 3887.1 | 4501.5 | 5798.6 | 8035.3 | 12283.8 | 19568.2 | 24129.9 | 29153.5 | 29277.9 | 23864.9 |
| 65° | 2003.8 | 2112.2 | 2574.0 | 3389.2 | 5613.8 | 9292.2 | 17086.5 | 23656.1 | 30301.9 | 31040.8 | 24780.4 |
| 67° | 1481.8 | 1501.8 | 1714.7 | 2164.4 | 3754.6 | 6995.2 | 14247.4 | 21941.4 | 30824.0 | 31362.1 | 24816.6 |
| 67.5° | 1389.4 | 1417.5 | 1586.2 | 1943.6 | 3329.0 | 6441.1 | 13504.6 | 21331.0 | 30591.1 | 31169.3 | 24535.5 |
| 70° | 1188.6 | 1196.7 | 1236.8 | 1337.2 | 1867.3 | 3875.1 | 9195.8 | 17480.0 | 28354.3 | 28908.5 | 22563.8 |
| 72.5° | 1056.1 | 1064.1 | 1080.2 | 1100.3 | 1264.9 | 2240.7 | 5593.8 | 13452.4 | 24643.9 | 25527.3 | 19467.8 |
| 75° | 927.6 | 955.7 | 963.8 | 947.7 | 1076.2 | 1457.7 | 2975.6 | 9886.5 | 20102.2 | 20531.9 | 15138.9 |
| 77.5° | 787.1 | 799.1 | 815.2 | 831.2 | 959.7 | 1088.2 | 1429.6 | 6674.0 | 13797.7 | 13536.7 | 8187.9 |
| 80° | 662.6 | 666.6 | 678.6 | 690.7 | 831.2 | 831.2 | 811.2 | 3606.0 | 6027.5 | 5762.4 | 2766.8 |
| 82.5° | 473.8 | 502.0 | 530.1 | 562.2 | 690.7 | 558.2 | 530.1 | 1606.3 | 1907.4 | 1815.1 | 935.6 |
| 85° | 184.7 | 224.9 | 349.4 | 385.5 | 437.7 | 301.2 | 353.4 | 694.7 | 795.1 | 787.1 | 349.4 |
| 87.5° | 32.1 | 36.1 | 96.4 | 148.6 | 160.6 | 104.4 | 168.7 | 249.0 | 297.2 | 321.3 | 128.5 |
| 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° | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 | 3606.0 |
| 2.5° | 3638.2 | 3513.7 | 3365.1 | 3216.5 | 3120.1 | 2967.5 | 2955.5 | 2863.1 | 2851.1 | 2819.0 | 2835.0 |
| 5° | 3666.3 | 3517.7 | 3216.5 | 2979.6 | 2871.2 | 2782.8 | 2802.9 | 2762.8 | 2750.7 | 2730.6 | 2698.5 |
| 7.5° | 3887.1 | 3594.0 | 3144.2 | 2939.4 | 2859.1 | 2819.0 | 2819.0 | 2770.8 | 2734.6 | 2758.7 | 2782.8 |
| 10° | 4031.7 | 3630.1 | 3200.5 | 2995.7 | 2931.4 | 2843.1 | 2875.2 | 2815.0 | 2835.0 | 2786.8 | 2786.8 |
| 12.5° | 4264.6 | 3834.9 | 3316.9 | 3080.0 | 2975.6 | 2895.3 | 2927.4 | 2859.1 | 2843.1 | 2847.1 | 2835.0 |
| 15° | 4577.8 | 3971.5 | 3369.1 | 3128.2 | 3055.9 | 2955.5 | 2931.4 | 2871.2 | 2810.9 | 2790.9 | 2815.0 |
| 17.5° | 4871.0 | 4140.1 | 3405.3 | 3156.3 | 3039.8 | 2927.4 | 2899.3 | 2823.0 | 2802.9 | 2742.7 | 2694.5 |
| 20° | 5220.3 | 4340.9 | 3453.4 | 3180.4 | 2979.6 | 2867.2 | 2794.9 | 2718.6 | 2650.3 | 2614.2 | 2630.2 |
| 22.5° | 5453.2 | 4445.3 | 3477.5 | 3132.2 | 2891.3 | 2786.8 | 2634.3 | 2582.0 | 2485.7 | 2445.5 | 2413.4 |
| 25° | 5834.7 | 4573.8 | 3417.3 | 2999.7 | 2734.6 | 2566.0 | 2429.5 | 2357.2 | 2288.9 | 2236.7 | 2220.6 |
| 27.5° | 5931.1 | 4670.2 | 3276.8 | 2774.8 | 2485.7 | 2309.0 | 2192.5 | 2104.2 | 2060.0 | 1979.7 | 1963.6 |
| 30° | 6212.2 | 4573.8 | 3067.9 | 2501.7 | 2248.8 | 2068.0 | 1951.6 | 1887.3 | 1782.9 | 1762.9 | 1718.7 |
| 32.5° | 6392.9 | 4601.9 | 2802.9 | 2236.7 | 1975.7 | 1815.1 | 1738.8 | 1674.5 | 1646.4 | 1550.0 | 1525.9 |
| 35° | 6694.1 | 4505.5 | 2533.9 | 1991.8 | 1750.8 | 1626.3 | 1562.1 | 1542.0 | 1449.6 | 1405.5 | 1365.3 |
| 37.5° | 6886.8 | 4449.3 | 2264.8 | 1714.7 | 1505.9 | 1453.7 | 1473.7 | 1389.4 | 1277.0 | 1192.6 | 1164.5 |
| 40° | 7224.1 | 4429.2 | 1959.6 | 1485.8 | 1337.2 | 1325.2 | 1389.4 | 1228.8 | 1024.0 | 951.7 | 911.5 |
| 42.5° | 7710.0 | 4292.7 | 1722.7 | 1281.0 | 1204.7 | 1256.9 | 1268.9 | 1024.0 | 907.5 | 847.3 | 819.2 |
| 45° | 8175.8 | 4320.8 | 1489.8 | 1060.1 | 1048.1 | 1124.4 | 1096.3 | 867.4 | 799.1 | 754.9 | 779.0 |
| 47.5° | 9071.3 | 4461.4 | 1260.9 | 883.4 | 943.7 | 1016.0 | 851.3 | 775.0 | 710.8 | 678.6 | 682.7 |
| 50° | 10456.7 | 4597.9 | 1060.1 | 807.1 | 891.5 | 919.6 | 730.8 | 702.7 | 698.7 | 634.5 | 630.5 |
| 52.5° | 11287.9 | 4545.7 | 1024.0 | 903.5 | 955.7 | 919.6 | 795.1 | 775.0 | 742.9 | 714.8 | 682.7 |
| 55° | 12609.1 | 4698.3 | 1100.3 | 1056.1 | 1084.2 | 883.4 | 891.5 | 883.4 | 859.3 | 787.1 | 807.1 |
| 57.5° | 13661.2 | 4798.7 | 1200.7 | 1180.6 | 1164.5 | 919.6 | 931.6 | 935.6 | 919.6 | 887.5 | 915.6 |
| 60° | 15106.8 | 4999.5 | 1305.1 | 1309.1 | 1313.1 | 999.9 | 1020.0 | 1044.1 | 1040.0 | 1028.0 | 1036.0 |
| 62.5° | 15994.2 | 4907.1 | 1421.5 | 1485.8 | 1465.7 | 1164.5 | 1160.5 | 1176.6 | 1176.6 | 1196.7 | 1208.7 |
| 65° | 15861.7 | 4565.8 | 1481.8 | 1642.4 | 1538.0 | 1285.0 | 1285.0 | 1293.0 | 1297.0 | 1337.2 | 1341.2 |
| 67° | 15066.6 | 3955.4 | 1449.6 | 1666.5 | 1538.0 | 1333.2 | 1333.2 | 1341.2 | 1313.1 | 1417.5 | 1385.4 |
| 67.5° | 14697.2 | 3774.7 | 1421.5 | 1646.4 | 1525.9 | 1329.2 | 1329.2 | 1333.2 | 1309.1 | 1409.5 | 1377.4 |
| 70° | 12781.7 | 2802.9 | 1224.8 | 1457.7 | 1413.5 | 1293.0 | 1293.0 | 1268.9 | 1248.9 | 1381.4 | 1353.3 |
| 72.5° | 10910.5 | 2035.9 | 983.8 | 1240.8 | 1277.0 | 1244.8 | 1252.9 | 1192.6 | 1136.4 | 1228.8 | 1204.7 |
| 75° | 8356.5 | 1497.8 | 767.0 | 955.7 | 1080.2 | 1164.5 | 1216.7 | 1064.1 | 991.9 | 1016.0 | 971.8 |
| 77.5° | 4662.1 | 975.8 | 606.4 | 706.8 | 823.2 | 1084.2 | 1168.5 | 959.7 | 811.2 | 783.0 | 783.0 |
| 80° | 1582.2 | 570.2 | 445.7 | 526.0 | 566.2 | 959.7 | 1092.3 | 779.0 | 638.5 | 610.4 | 590.3 |
| 82.5° | 598.3 | 349.4 | 305.2 | 361.4 | 361.4 | 759.0 | 891.5 | 598.3 | 481.9 | 622.4 | 634.5 |
| 85° | 273.1 | 208.8 | 200.8 | 208.8 | 208.8 | 465.8 | 630.5 | 389.5 | 433.7 | 373.5 | 329.3 |
| 87.5° | 108.4 | 100.4 | 92.4 | 88.3 | 72.3 | 80.3 | 216.8 | 104.4 | 196.8 | 52.2 | 48.2 |
| 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)