

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: P478119

Luminaire Tested: **IFLD-S-SA3C-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

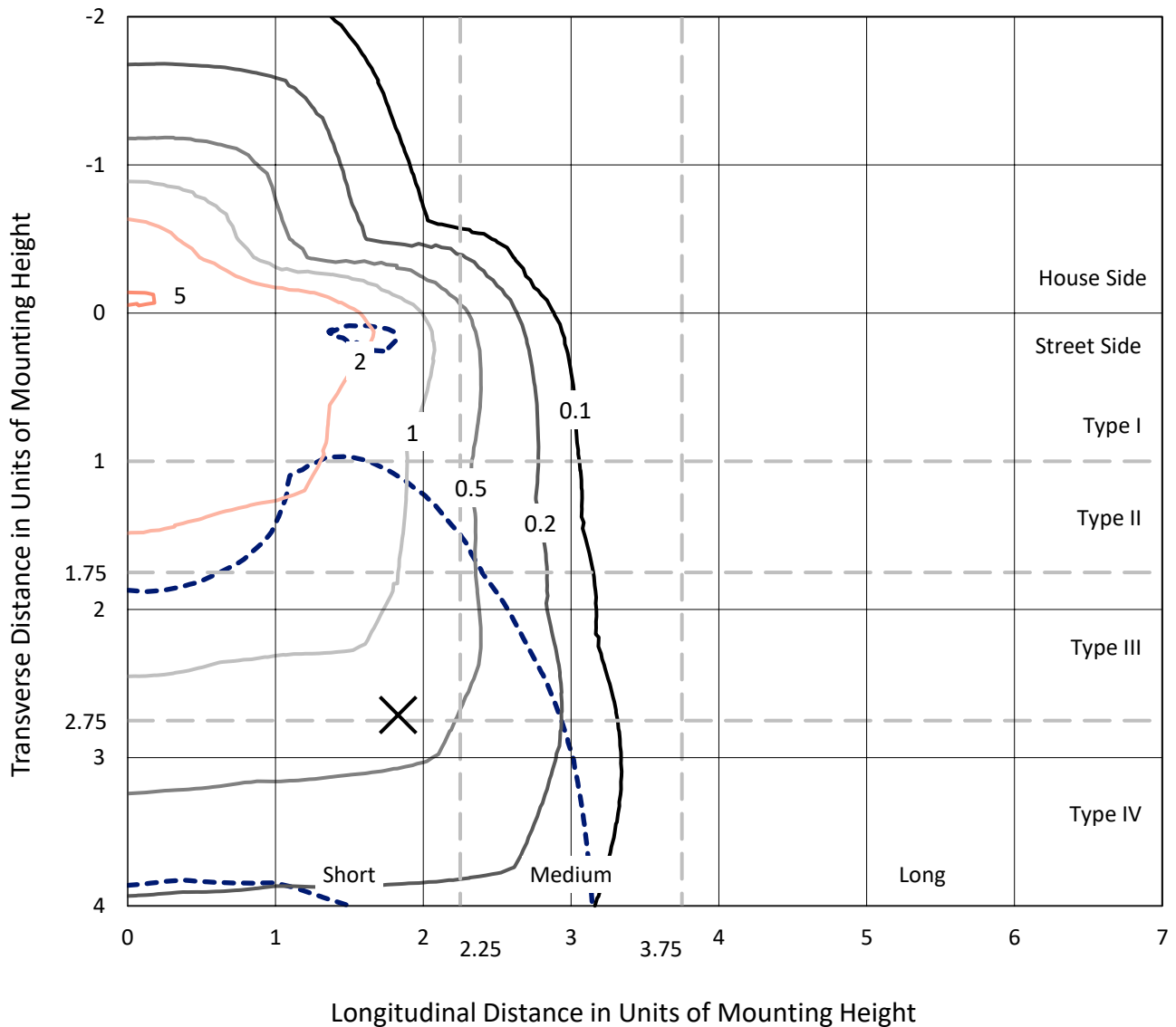
Lumens per Lamp: N/A
Luminaire Lumens: 21403.5 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

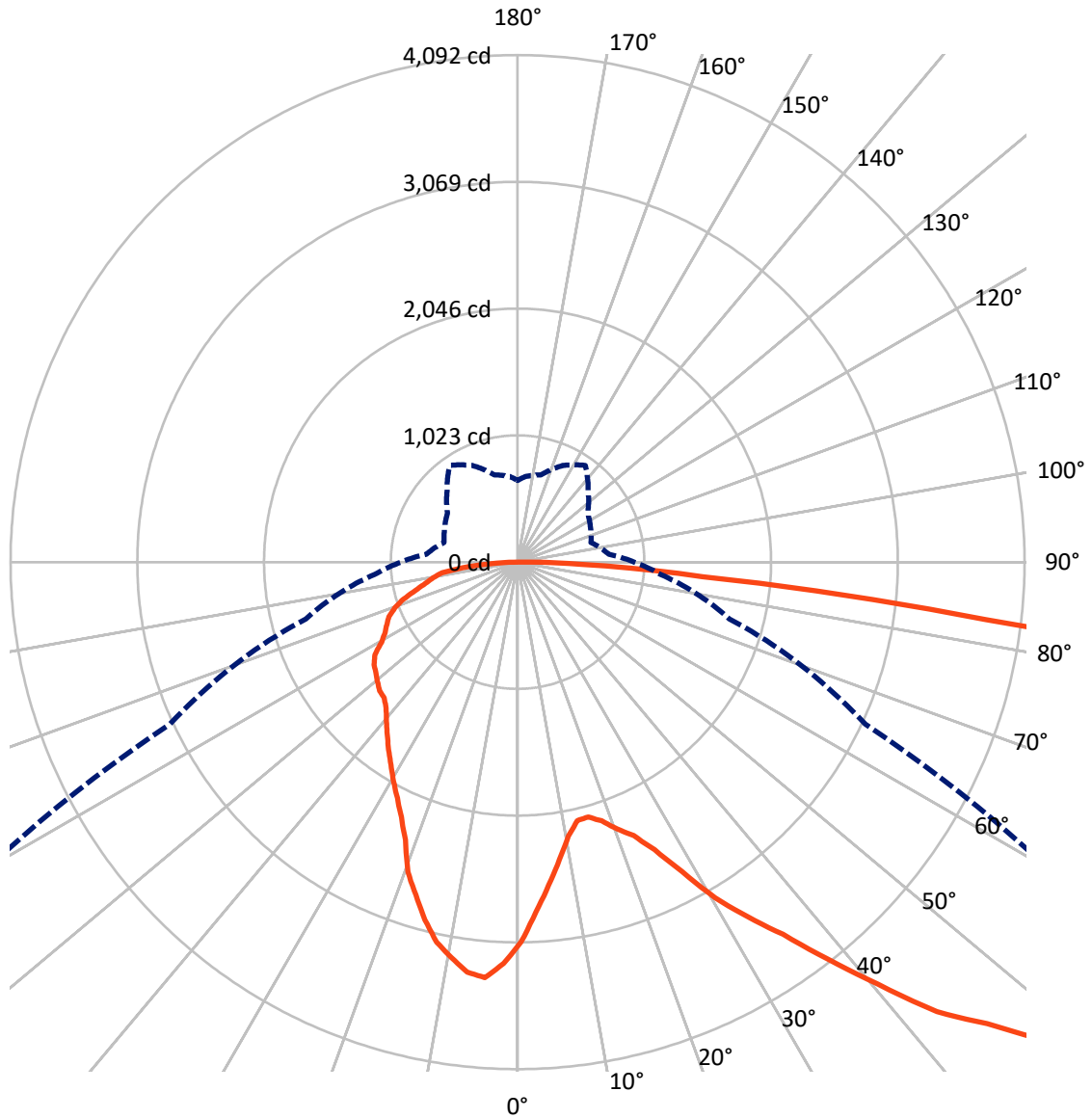
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 4623.4 | 0.0 | 4623.4 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 16780.0 | 0.0 | 16780.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 21403.5 | 0.0 | 21403.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 283.2 | 1.3 |
| 10°-20° | 792.6 | 3.7 |
| 20°-30° | 1304.5 | 6.1 |
| 30°-40° | 1950.8 | 9.1 |
| 40°-50° | 2892.0 | 13.5 |
| 50°-60° | 4167.7 | 19.5 |
| 60°-70° | 5318.6 | 24.8 |
| 70°-80° | 4138.7 | 19.3 |
| 80°-90° | 555.2 | 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° | 21403.5 | 100.0 |
| 0°-180° | 21403.5 | 100.0 |

Coefficient of Utilization



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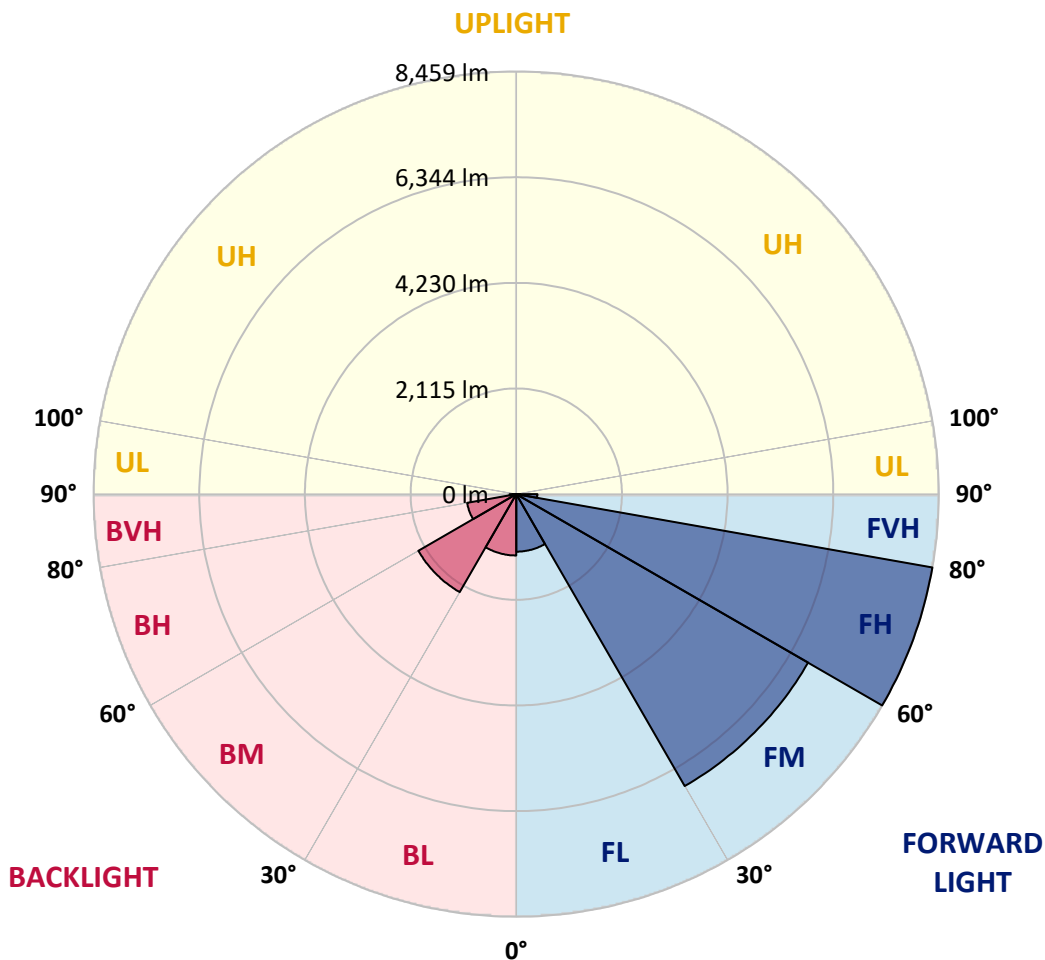
CATALOG NUMBER: IFLD-S-SA3C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1151.9 | 5.4 | | | |
| FM (30°-60°) | 6746.5 | 31.5 | | | |
| FH (60°-80°) | 8459.0 | 39.5 | | | G4/12000 |
| FVH (80°-90°) | 422.6 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1228.4 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 2264.1 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 998.3 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 132.6 | 0.6 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 |
| 2.5° | 2749.4 | 2758.5 | 2787.9 | 2794.7 | 2826.4 | 2808.3 | 2846.8 | 2914.6 | 2953.1 | 3009.7 | 3077.6 |
| 5° | 2532.2 | 2493.7 | 2511.8 | 2582.0 | 2618.2 | 2627.3 | 2668.0 | 2783.4 | 2855.8 | 2939.5 | 3066.3 |
| 7.5° | 2276.5 | 2269.7 | 2305.9 | 2351.2 | 2423.6 | 2430.4 | 2520.9 | 2622.7 | 2772.1 | 2957.6 | 3107.0 |
| 10° | 2102.3 | 2131.7 | 2152.0 | 2199.6 | 2249.3 | 2249.3 | 2364.8 | 2541.3 | 2711.0 | 2889.8 | 3116.0 |
| 12.5° | 2093.2 | 2075.1 | 2079.6 | 2104.5 | 2140.7 | 2186.0 | 2294.6 | 2453.0 | 2668.0 | 2876.2 | 3154.5 |
| 15° | 2122.6 | 2129.4 | 2088.7 | 2120.4 | 2133.9 | 2149.8 | 2269.7 | 2448.5 | 2640.8 | 2923.7 | 3220.1 |
| 17.5° | 2278.8 | 2240.3 | 2176.9 | 2147.5 | 2195.0 | 2195.0 | 2276.5 | 2416.8 | 2645.4 | 2948.6 | 3315.2 |
| 20° | 2401.0 | 2401.0 | 2296.9 | 2265.2 | 2299.1 | 2292.3 | 2348.9 | 2453.0 | 2668.0 | 2998.4 | 3421.5 |
| 22.5° | 2606.9 | 2636.3 | 2464.3 | 2398.7 | 2396.4 | 2414.5 | 2464.3 | 2552.6 | 2731.3 | 3068.5 | 3523.4 |
| 25° | 2903.3 | 2910.1 | 2711.0 | 2643.1 | 2570.7 | 2600.1 | 2609.1 | 2697.4 | 2787.9 | 3150.0 | 3638.8 |
| 27.5° | 3233.7 | 3229.2 | 3045.9 | 2876.2 | 2828.7 | 2835.4 | 2785.7 | 2844.5 | 2871.6 | 3174.9 | 3804.0 |
| 30° | 3600.3 | 3559.6 | 3421.5 | 3181.7 | 3143.2 | 3100.2 | 2991.6 | 2989.3 | 3045.9 | 3315.2 | 4032.5 |
| 32.5° | 3840.2 | 3788.1 | 3693.1 | 3521.1 | 3414.7 | 3419.3 | 3247.3 | 3245.0 | 3195.2 | 3469.1 | 4231.7 |
| 35° | 4075.5 | 3996.3 | 3971.4 | 3794.9 | 3688.6 | 3699.9 | 3561.8 | 3543.7 | 3453.2 | 3702.1 | 4559.8 |
| 37.5° | 4358.4 | 4288.2 | 4326.7 | 4193.2 | 4061.9 | 4007.6 | 3944.3 | 3921.6 | 3804.0 | 4030.3 | 5007.8 |
| 40° | 4670.7 | 4648.0 | 4623.1 | 4557.5 | 4478.3 | 4482.8 | 4415.0 | 4392.3 | 4218.1 | 4426.3 | 5437.8 |
| 42.5° | 5091.6 | 5005.6 | 4876.6 | 4919.6 | 4960.3 | 5003.3 | 4980.7 | 4921.9 | 4740.8 | 4829.1 | 5917.5 |
| 45° | 5483.1 | 5369.9 | 5132.3 | 5145.9 | 5313.3 | 5347.3 | 5621.1 | 5614.3 | 5250.0 | 5340.5 | 6462.9 |
| 47.5° | 5747.8 | 5695.8 | 5553.2 | 5537.4 | 5777.2 | 5775.0 | 6268.3 | 6268.3 | 5786.3 | 5849.7 | 7049.0 |
| 50° | 6141.6 | 6005.8 | 5944.7 | 6023.9 | 6146.1 | 6229.8 | 6929.1 | 6972.1 | 6313.6 | 6381.4 | 7816.1 |
| 52.5° | 6603.2 | 6433.5 | 6279.6 | 6483.3 | 6700.5 | 6754.8 | 7583.0 | 7564.9 | 6718.6 | 6999.2 | 8714.5 |
| 55° | 6985.6 | 6899.6 | 6793.3 | 6911.0 | 7266.2 | 7334.1 | 8239.3 | 8071.8 | 7123.7 | 7510.6 | 9146.7 |
| 57.5° | 7431.4 | 7483.5 | 7506.1 | 7476.7 | 7899.9 | 8006.2 | 8988.3 | 8508.6 | 7472.2 | 7854.6 | 9400.2 |
| 60° | 8103.5 | 8135.2 | 8164.6 | 8234.8 | 8682.8 | 8832.2 | 9581.2 | 9056.2 | 7691.7 | 8053.7 | 9420.5 |
| 62.5° | 9126.4 | 9004.2 | 9069.8 | 9311.9 | 9671.7 | 9841.4 | 10454.7 | 9440.9 | 7859.1 | 8173.7 | 8755.2 |
| 65° | 10296.3 | 10131.1 | 10063.2 | 10375.5 | 11307.8 | 11172.0 | 11545.4 | 9728.3 | 7617.0 | 7725.6 | 7424.6 |
| 67.5° | 11482.1 | 11500.2 | 11325.9 | 11952.8 | 13095.5 | 13095.5 | 12559.2 | 9866.3 | 6960.7 | 6261.5 | 5207.0 |
| 70° | 12423.4 | 12480.0 | 12575.1 | 13790.2 | 15600.6 | 15874.4 | 13815.1 | 9300.6 | 5623.4 | 4168.3 | 2846.8 |
| 72.5° | 12409.9 | 12240.1 | 12726.7 | 14964.7 | 17877.1 | 17648.5 | 14077.6 | 7354.5 | 3509.8 | 2041.2 | 1305.7 |
| 73° | 12131.5 | 11989.0 | 12520.7 | 14953.4 | 17969.9 | 17754.9 | 13885.3 | 6779.7 | 3095.7 | 1769.6 | 1160.9 |
| 75° | 9907.1 | 9649.1 | 10554.3 | 13543.6 | 16625.7 | 16790.9 | 11796.6 | 4421.7 | 1697.2 | 1090.7 | 816.9 |
| 77.5° | 4516.8 | 4629.9 | 5808.9 | 9085.6 | 12812.7 | 13007.3 | 7755.0 | 1912.2 | 930.1 | 764.9 | 601.9 |
| 80° | 1450.5 | 1522.9 | 2260.7 | 4516.8 | 8031.1 | 8381.9 | 3584.5 | 869.0 | 663.0 | 586.1 | 450.3 |
| 82.5° | 554.4 | 552.2 | 948.2 | 1878.2 | 3806.2 | 4030.3 | 1310.2 | 529.5 | 493.3 | 432.2 | 319.1 |
| 85° | 194.6 | 203.7 | 357.5 | 742.2 | 1498.1 | 1568.2 | 454.8 | 294.2 | 341.7 | 289.7 | 183.3 |
| 87.5° | 67.9 | 70.2 | 126.7 | 269.3 | 515.9 | 545.4 | 126.7 | 117.7 | 169.7 | 167.5 | 92.8 |
| 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° | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 | 3068.5 |
| 2.5° | 3100.2 | 3120.6 | 3127.4 | 3208.8 | 3208.8 | 3208.8 | 3240.5 | 3240.5 | 3231.5 | 3208.8 | 3263.1 |
| 5° | 3113.8 | 3150.0 | 3220.1 | 3290.3 | 3308.4 | 3324.2 | 3367.2 | 3331.0 | 3344.6 | 3322.0 | 3342.3 |
| 7.5° | 3152.2 | 3202.0 | 3333.3 | 3376.3 | 3346.9 | 3380.8 | 3335.5 | 3310.7 | 3285.8 | 3294.8 | 3263.1 |
| 10° | 3217.9 | 3281.2 | 3342.3 | 3421.5 | 3365.0 | 3331.0 | 3238.2 | 3215.6 | 3136.4 | 3109.3 | 3134.1 |
| 12.5° | 3299.3 | 3376.3 | 3480.4 | 3451.0 | 3342.3 | 3245.0 | 3145.5 | 3050.4 | 3002.9 | 2935.0 | 2953.1 |
| 15° | 3380.8 | 3469.1 | 3484.9 | 3435.1 | 3299.3 | 3177.1 | 2996.1 | 2862.6 | 2815.1 | 2754.0 | 2785.7 |
| 17.5° | 3469.1 | 3552.8 | 3525.6 | 3396.6 | 3213.3 | 3027.8 | 2821.9 | 2690.6 | 2591.0 | 2552.6 | 2552.6 |
| 20° | 3600.3 | 3641.0 | 3598.0 | 3333.3 | 3109.3 | 2864.9 | 2665.7 | 2516.4 | 2416.8 | 2401.0 | 2376.1 |
| 22.5° | 3702.1 | 3767.8 | 3575.4 | 3240.5 | 2957.6 | 2652.1 | 2423.6 | 2367.0 | 2337.6 | 2312.7 | 2281.0 |
| 25° | 3833.4 | 3831.1 | 3534.7 | 3154.5 | 2697.4 | 2398.7 | 2260.7 | 2256.1 | 2242.6 | 2233.5 | 2276.5 |
| 27.5° | 3957.8 | 3905.8 | 3487.2 | 2941.8 | 2428.1 | 2206.3 | 2131.7 | 2181.5 | 2201.8 | 2188.2 | 2206.3 |
| 30° | 4154.7 | 4068.7 | 3419.3 | 2715.5 | 2190.5 | 2011.7 | 2025.3 | 2093.2 | 2127.1 | 2147.5 | 2120.4 |
| 32.5° | 4362.9 | 4231.7 | 3279.0 | 2480.2 | 1980.1 | 1889.5 | 1921.2 | 1991.4 | 2032.1 | 2054.7 | 2079.6 |
| 35° | 4663.9 | 4358.4 | 3136.4 | 2172.4 | 1828.4 | 1814.9 | 1833.0 | 1871.4 | 1930.3 | 1946.1 | 1952.9 |
| 37.5° | 5035.0 | 4550.7 | 2944.1 | 1925.7 | 1710.8 | 1726.6 | 1744.7 | 1758.3 | 1760.6 | 1790.0 | 1778.7 |
| 40° | 5406.1 | 4713.7 | 2663.5 | 1690.4 | 1588.6 | 1674.6 | 1665.5 | 1640.6 | 1620.3 | 1593.1 | 1586.3 |
| 42.5° | 5732.0 | 4856.2 | 2351.2 | 1491.3 | 1480.0 | 1620.3 | 1590.8 | 1527.5 | 1480.0 | 1459.6 | 1425.6 |
| 45° | 6098.6 | 5057.6 | 2036.6 | 1366.8 | 1396.2 | 1554.6 | 1545.6 | 1448.3 | 1387.2 | 1314.8 | 1305.7 |
| 47.5° | 6573.8 | 5268.1 | 1735.7 | 1237.8 | 1317.0 | 1529.7 | 1534.3 | 1409.8 | 1321.5 | 1224.2 | 1210.7 |
| 50° | 7182.5 | 5571.3 | 1507.1 | 1183.5 | 1269.5 | 1493.5 | 1500.3 | 1357.8 | 1242.3 | 1142.8 | 1133.7 |
| 52.5° | 7766.3 | 5881.3 | 1317.0 | 1099.8 | 1237.8 | 1450.5 | 1466.4 | 1310.2 | 1176.7 | 1052.3 | 1059.0 |
| 55° | 8060.5 | 5768.2 | 1154.1 | 1038.7 | 1165.4 | 1380.4 | 1439.2 | 1276.3 | 1077.2 | 991.2 | 988.9 |
| 57.5° | 8126.2 | 5489.8 | 1025.1 | 975.3 | 1104.3 | 1305.7 | 1394.0 | 1174.5 | 1031.9 | 959.5 | 950.4 |
| 60° | 7911.2 | 5003.3 | 923.3 | 907.4 | 1027.4 | 1228.8 | 1289.9 | 1120.1 | 986.6 | 927.8 | 914.2 |
| 62.5° | 7381.6 | 4498.7 | 853.1 | 875.8 | 961.7 | 1145.0 | 1224.2 | 1081.7 | 943.6 | 902.9 | 873.5 |
| 65° | 6053.3 | 3699.9 | 796.5 | 814.7 | 893.9 | 1063.6 | 1183.5 | 1038.7 | 905.2 | 866.7 | 864.4 |
| 67.5° | 4193.2 | 2550.3 | 751.3 | 785.2 | 839.5 | 1004.7 | 1142.8 | 991.2 | 855.4 | 841.8 | 823.7 |
| 70° | 2147.5 | 1360.0 | 692.5 | 719.6 | 780.7 | 930.1 | 1070.4 | 941.4 | 803.3 | 801.1 | 778.4 |
| 72.5° | 1088.5 | 796.5 | 624.6 | 665.3 | 708.3 | 832.8 | 979.8 | 875.8 | 737.7 | 712.8 | 676.6 |
| 73° | 941.4 | 737.7 | 613.3 | 649.5 | 690.2 | 805.6 | 952.7 | 859.9 | 728.7 | 692.5 | 658.5 |
| 75° | 685.7 | 581.6 | 549.9 | 586.1 | 617.8 | 726.4 | 862.2 | 787.5 | 669.8 | 631.4 | 599.7 |
| 77.5° | 513.7 | 448.1 | 457.1 | 497.8 | 525.0 | 626.8 | 767.1 | 712.8 | 606.5 | 554.4 | 540.8 |
| 80° | 377.9 | 341.7 | 377.9 | 416.4 | 436.7 | 552.2 | 699.2 | 617.8 | 511.4 | 452.6 | 441.3 |
| 82.5° | 269.3 | 248.9 | 291.9 | 316.8 | 325.9 | 457.1 | 629.1 | 493.3 | 387.0 | 310.0 | 285.1 |
| 85° | 153.9 | 151.6 | 196.9 | 194.6 | 201.4 | 267.0 | 414.1 | 328.1 | 248.9 | 190.1 | 185.6 |
| 87.5° | 67.9 | 74.7 | 99.6 | 79.2 | 83.7 | 126.7 | 176.5 | 122.2 | 101.8 | 56.6 | 43.0 |
| 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)