

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: P480807

Luminaire Tested: **IFLD-S-SA2E-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480807
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

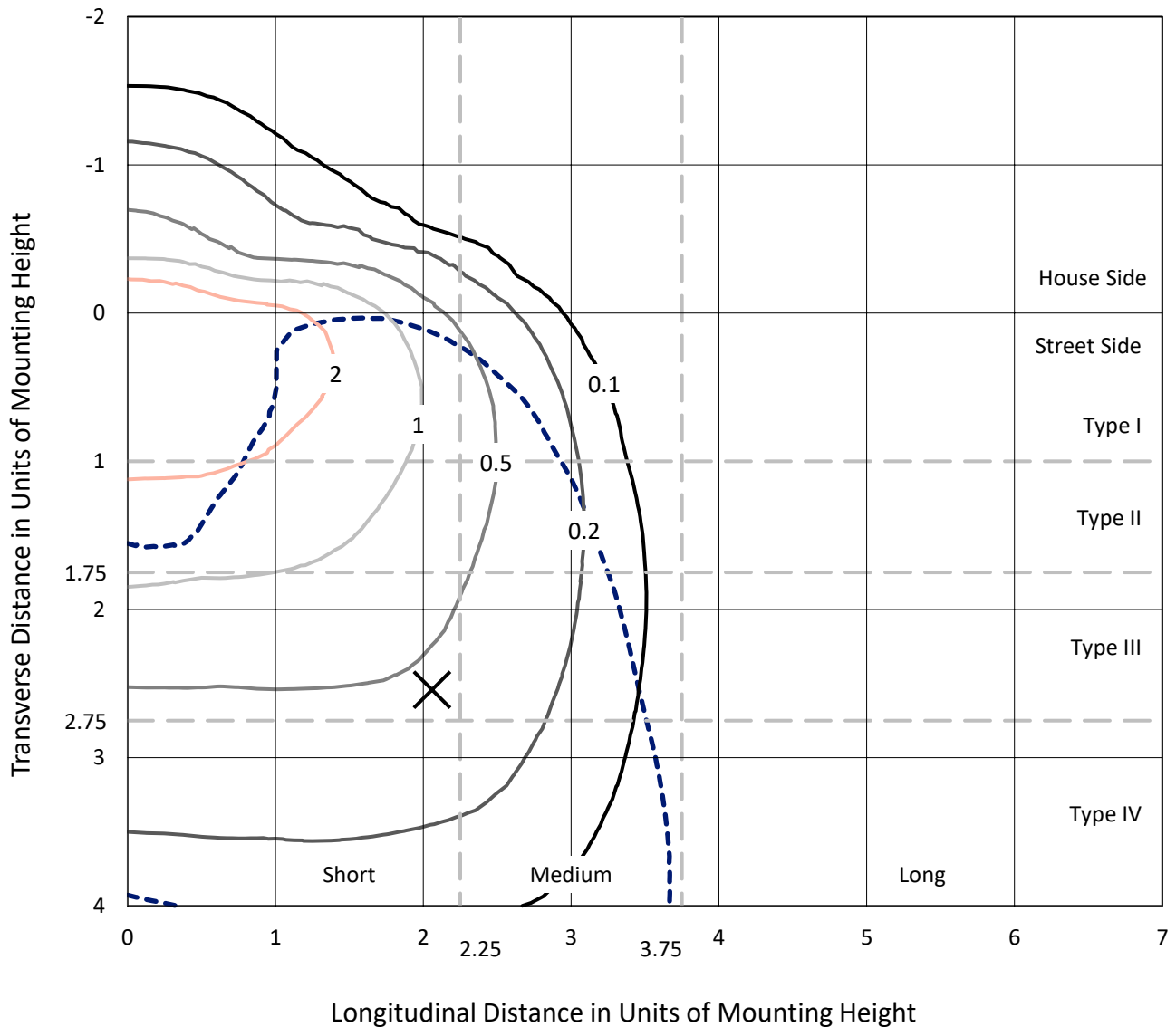
Lumens per Lamp: N/A
Luminaire Lumens: 15942 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

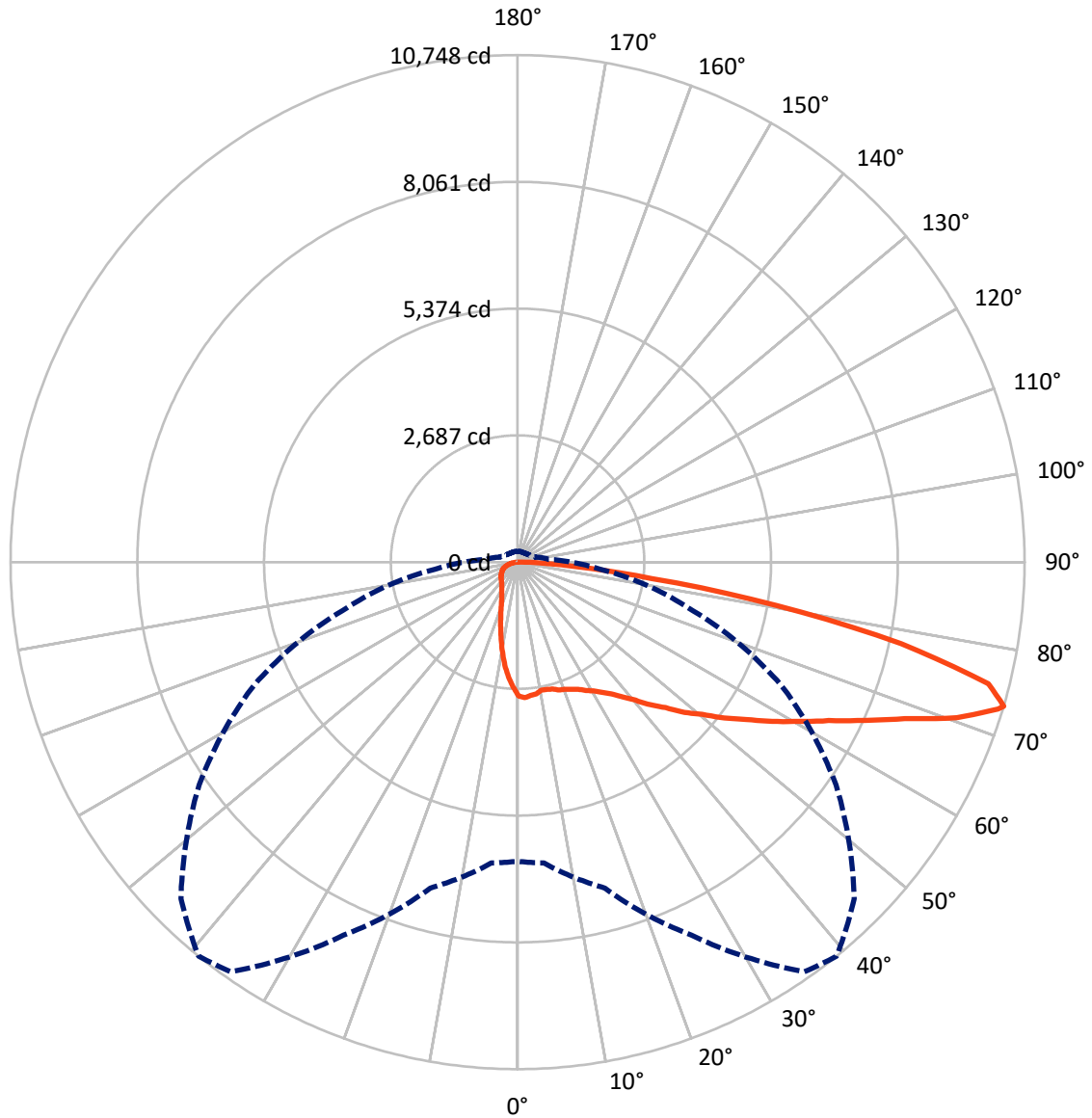
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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 | 2241.0 | 0.0 | 2241.0 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 13701.0 | 0.0 | 13701.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 15942.0 | 0.0 | 15942.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.3 | 1.5 |
| 10°-20° | 626.2 | 3.9 |
| 20°-30° | 957.0 | 6.0 |
| 30°-40° | 1395.3 | 8.8 |
| 40°-50° | 2108.4 | 13.2 |
| 50°-60° | 3053.1 | 19.2 |
| 60°-70° | 3879.1 | 24.3 |
| 70°-80° | 3144.6 | 19.7 |
| 80°-90° | 532.0 | 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° | 15942.0 | 100.0 |
| 0°-180° | 15942.0 | 100.0 |

Coefficient of Utilization



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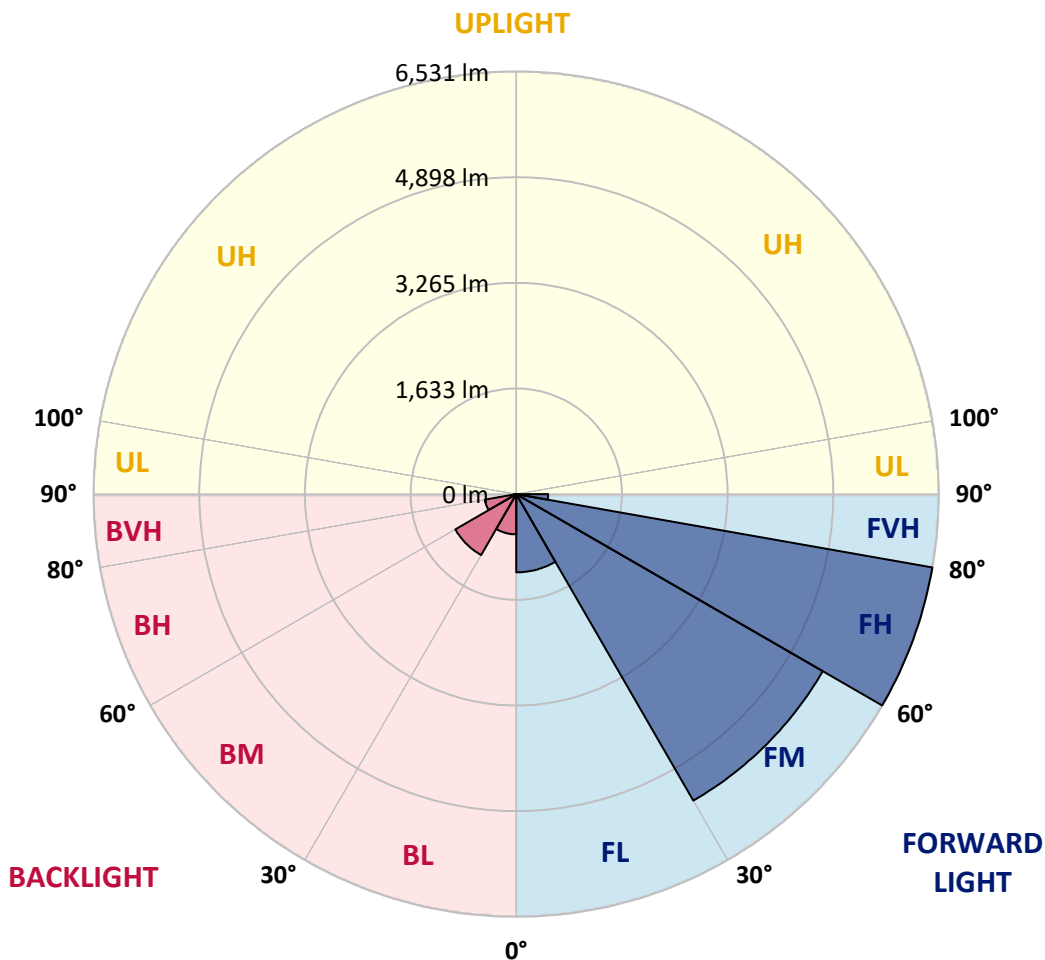
CATALOG NUMBER: IFLD-S-SA2E-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1208.1 | 7.6 | | | |
| FM (30°-60°) | 5469.1 | 34.3 | | | |
| FH (60°-80°) | 6530.8 | 41.0 | | | G3/7500 |
| FVH (80°-90°) | 493.0 | 3.1 | | | G3/500 |
| BL (0°-30°) | 621.5 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1087.6 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 492.9 | 3.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 39.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 |
| 2.5° | 2905.6 | 2875.2 | 2880.6 | 2869.9 | 2880.6 | 2877.0 | 2871.7 | 2844.9 | 2871.7 | 2844.9 | 2837.8 |
| 5° | 2866.3 | 2866.3 | 2884.2 | 2857.4 | 2861.0 | 2843.1 | 2861.0 | 2841.3 | 2823.5 | 2778.9 | 2766.4 |
| 7.5° | 2853.8 | 2852.0 | 2853.8 | 2816.4 | 2834.2 | 2823.5 | 2805.7 | 2784.3 | 2748.6 | 2720.1 | 2679.0 |
| 10° | 2768.2 | 2786.0 | 2766.4 | 2777.1 | 2791.4 | 2759.3 | 2757.5 | 2752.2 | 2736.1 | 2698.7 | 2673.7 |
| 12.5° | 2721.8 | 2752.2 | 2762.9 | 2753.9 | 2766.4 | 2770.0 | 2759.3 | 2752.2 | 2732.5 | 2707.6 | 2636.2 |
| 15° | 2741.5 | 2705.8 | 2736.1 | 2795.0 | 2782.5 | 2791.4 | 2793.2 | 2786.0 | 2777.1 | 2730.8 | 2684.4 |
| 17.5° | 2746.8 | 2725.4 | 2789.6 | 2802.1 | 2818.2 | 2850.3 | 2828.9 | 2827.1 | 2793.2 | 2761.1 | 2693.3 |
| 20° | 2759.3 | 2750.4 | 2802.1 | 2868.1 | 2869.9 | 2875.2 | 2885.9 | 2859.2 | 2841.3 | 2786.0 | 2682.6 |
| 22.5° | 2805.7 | 2836.0 | 2884.2 | 2912.7 | 2928.7 | 2932.3 | 2932.3 | 2878.8 | 2859.2 | 2814.6 | 2732.5 |
| 25° | 2944.8 | 2912.7 | 2980.5 | 3014.4 | 2991.2 | 2985.8 | 2973.3 | 2925.2 | 2903.8 | 2864.5 | 2755.7 |
| 27.5° | 3046.5 | 3044.7 | 3083.9 | 3130.3 | 3067.9 | 3080.4 | 3035.8 | 3021.5 | 2973.3 | 2951.9 | 2796.8 |
| 30° | 3185.6 | 3224.8 | 3223.0 | 3237.3 | 3155.3 | 3169.5 | 3112.5 | 3085.7 | 3058.9 | 3071.4 | 2918.0 |
| 32.5° | 3364.0 | 3349.7 | 3372.9 | 3362.2 | 3280.1 | 3292.6 | 3224.8 | 3183.8 | 3192.7 | 3230.2 | 3083.9 |
| 35° | 3478.1 | 3463.8 | 3472.8 | 3472.8 | 3447.8 | 3433.5 | 3405.0 | 3351.5 | 3394.3 | 3463.8 | 3269.4 |
| 37.5° | 3601.2 | 3619.0 | 3670.7 | 3660.0 | 3627.9 | 3627.9 | 3624.4 | 3586.9 | 3642.2 | 3813.4 | 3565.5 |
| 40° | 3710.0 | 3758.1 | 3790.2 | 3811.6 | 3849.1 | 3849.1 | 3879.4 | 3858.0 | 3957.9 | 4232.6 | 3927.6 |
| 42.5° | 3824.1 | 3825.9 | 4000.7 | 4016.8 | 4100.6 | 4136.3 | 4159.5 | 4177.3 | 4364.6 | 4671.4 | 4314.6 |
| 45° | 3970.4 | 3979.3 | 4132.7 | 4255.8 | 4386.0 | 4398.5 | 4485.9 | 4544.7 | 4774.8 | 5151.2 | 4735.6 |
| 47.5° | 4163.0 | 4152.3 | 4316.4 | 4512.6 | 4674.9 | 4760.5 | 4865.8 | 4930.0 | 5213.6 | 5672.0 | 5195.8 |
| 50° | 4416.3 | 4384.2 | 4478.7 | 4787.3 | 4978.1 | 5072.7 | 5260.0 | 5367.0 | 5698.7 | 6169.6 | 5511.5 |
| 52.5° | 4724.9 | 4671.4 | 4746.3 | 5083.4 | 5297.4 | 5488.3 | 5666.6 | 5786.1 | 6132.2 | 6554.9 | 5745.1 |
| 55° | 5051.3 | 4940.7 | 4962.1 | 5397.3 | 5705.9 | 5886.0 | 6130.4 | 6255.2 | 6608.4 | 6900.9 | 5978.8 |
| 57.5° | 5374.1 | 5304.6 | 5261.7 | 5698.7 | 6192.8 | 6365.8 | 6590.6 | 6752.9 | 7052.5 | 7207.7 | 6176.8 |
| 60° | 5645.2 | 5627.4 | 5557.8 | 6166.1 | 6708.3 | 6856.3 | 7091.8 | 7191.6 | 7418.2 | 7491.3 | 6180.3 |
| 62.5° | 5868.2 | 5807.5 | 5918.1 | 6542.4 | 7232.7 | 7400.3 | 7659.0 | 7667.9 | 7828.4 | 7667.9 | 5998.4 |
| 65° | 6043.0 | 6046.5 | 6223.1 | 6997.2 | 7839.1 | 8087.0 | 8295.7 | 8272.5 | 8169.1 | 7562.6 | 5568.5 |
| 67.5° | 6201.7 | 6269.5 | 6528.1 | 7496.7 | 8618.6 | 8852.2 | 9084.1 | 8777.3 | 8261.8 | 7070.4 | 4728.4 |
| 70° | 6326.6 | 6394.4 | 6940.2 | 8104.9 | 9537.1 | 9879.6 | 9931.3 | 8977.1 | 7835.5 | 5989.5 | 3567.3 |
| 72.5° | 6312.3 | 6435.4 | 7173.8 | 8590.0 | 10352.3 | 10648.3 | 10231.0 | 8415.2 | 6528.1 | 4175.5 | 2081.5 |
| 73° | 6342.6 | 6403.3 | 7154.2 | 8725.6 | 10600.2 | 10748.2 | 10091.9 | 8238.6 | 6157.1 | 3745.6 | 1760.5 |
| 75° | 5757.6 | 5962.7 | 6799.2 | 8504.4 | 10334.4 | 10307.7 | 9292.8 | 6865.2 | 4377.1 | 1967.4 | 852.6 |
| 77.5° | 4259.3 | 4389.5 | 5358.1 | 6993.7 | 8483.0 | 8311.8 | 7009.7 | 4387.8 | 2077.9 | 729.5 | 460.2 |
| 80° | 2081.5 | 2183.2 | 2839.6 | 4038.2 | 5547.1 | 5561.4 | 4350.3 | 2283.1 | 890.0 | 412.0 | 313.9 |
| 82.5° | 1039.9 | 1100.5 | 1364.5 | 1774.7 | 2729.0 | 2859.2 | 2206.4 | 1298.5 | 551.1 | 233.7 | 178.4 |
| 85° | 679.6 | 722.4 | 840.1 | 868.6 | 1157.6 | 1221.8 | 1027.4 | 1013.1 | 358.5 | 126.6 | 144.5 |
| 87.5° | 451.3 | 458.4 | 515.5 | 438.8 | 463.7 | 445.9 | 495.9 | 638.5 | 105.2 | 53.5 | 39.2 |
| 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° | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 | 2837.8 |
| 2.5° | 2828.9 | 2803.9 | 2777.1 | 2739.7 | 2712.9 | 2671.9 | 2634.4 | 2618.4 | 2614.8 | 2616.6 | 2598.8 |
| 5° | 2755.7 | 2720.1 | 2666.5 | 2589.8 | 2545.3 | 2477.5 | 2420.4 | 2390.1 | 2358.0 | 2363.3 | 2349.1 |
| 7.5° | 2654.1 | 2614.8 | 2532.8 | 2443.6 | 2333.0 | 2236.7 | 2183.2 | 2108.3 | 2065.5 | 2033.4 | 2051.2 |
| 10° | 2622.0 | 2554.2 | 2431.1 | 2308.0 | 2136.8 | 2010.2 | 1887.1 | 1801.5 | 1742.6 | 1685.5 | 1710.5 |
| 12.5° | 2605.9 | 2538.1 | 2366.9 | 2185.0 | 1963.8 | 1771.2 | 1598.1 | 1492.9 | 1409.1 | 1359.1 | 1378.8 |
| 15° | 2591.6 | 2507.8 | 2306.3 | 2049.4 | 1801.5 | 1548.2 | 1353.8 | 1214.7 | 1134.4 | 1086.2 | 1091.6 |
| 17.5° | 2611.3 | 2491.7 | 2217.1 | 1917.4 | 1623.1 | 1352.0 | 1136.2 | 991.7 | 909.7 | 879.3 | 872.2 |
| 20° | 2591.6 | 2473.9 | 2129.7 | 1785.4 | 1444.8 | 1164.7 | 957.8 | 838.3 | 781.2 | 756.3 | 750.9 |
| 22.5° | 2598.8 | 2431.1 | 2038.7 | 1639.2 | 1278.9 | 1007.8 | 838.3 | 747.3 | 702.8 | 690.3 | 693.8 |
| 25° | 2632.7 | 2406.1 | 1947.7 | 1478.6 | 1114.8 | 891.8 | 761.6 | 692.1 | 659.9 | 647.5 | 651.0 |
| 27.5° | 2657.6 | 2427.5 | 1865.7 | 1327.0 | 975.7 | 788.4 | 697.4 | 651.0 | 629.6 | 620.7 | 618.9 |
| 30° | 2720.1 | 2440.0 | 1785.4 | 1191.5 | 861.5 | 720.6 | 652.8 | 615.4 | 601.1 | 595.7 | 594.0 |
| 32.5° | 2812.8 | 2463.2 | 1692.7 | 1066.6 | 777.7 | 656.4 | 617.1 | 585.0 | 581.5 | 576.1 | 577.9 |
| 35° | 2964.4 | 2543.5 | 1589.2 | 959.6 | 697.4 | 613.6 | 579.7 | 558.3 | 558.3 | 558.3 | 563.6 |
| 37.5° | 3182.0 | 2655.8 | 1496.5 | 857.9 | 645.7 | 576.1 | 547.6 | 540.4 | 536.9 | 542.2 | 545.8 |
| 40° | 3462.1 | 2791.4 | 1421.6 | 777.7 | 601.1 | 551.1 | 526.2 | 522.6 | 520.8 | 519.0 | 522.6 |
| 42.5° | 3768.8 | 2964.4 | 1357.4 | 715.2 | 569.0 | 524.4 | 506.6 | 503.0 | 495.9 | 499.4 | 504.8 |
| 45° | 4073.8 | 3178.5 | 1300.3 | 665.3 | 547.6 | 510.1 | 485.2 | 483.4 | 479.8 | 478.0 | 486.9 |
| 47.5° | 4412.7 | 3388.9 | 1282.4 | 635.0 | 531.5 | 488.7 | 470.9 | 469.1 | 458.4 | 456.6 | 463.7 |
| 50° | 4676.7 | 3544.1 | 1302.1 | 620.7 | 508.3 | 472.7 | 460.2 | 451.3 | 442.3 | 433.4 | 433.4 |
| 52.5° | 4858.6 | 3651.1 | 1316.3 | 610.0 | 495.9 | 451.3 | 435.2 | 431.6 | 422.7 | 413.8 | 410.2 |
| 55° | 5022.7 | 3715.3 | 1319.9 | 611.8 | 483.4 | 426.3 | 415.6 | 413.8 | 408.5 | 394.2 | 390.6 |
| 57.5° | 5078.0 | 3688.6 | 1248.5 | 595.7 | 476.2 | 410.2 | 396.0 | 399.5 | 392.4 | 379.9 | 378.1 |
| 60° | 5072.7 | 3503.1 | 1086.2 | 574.3 | 460.2 | 392.4 | 374.6 | 385.3 | 385.3 | 371.0 | 369.2 |
| 62.5° | 4764.1 | 3075.0 | 888.3 | 533.3 | 442.3 | 374.6 | 354.9 | 371.0 | 376.3 | 367.4 | 365.6 |
| 65° | 4123.8 | 2504.2 | 742.0 | 492.3 | 415.6 | 354.9 | 335.3 | 353.2 | 362.1 | 358.5 | 356.7 |
| 67.5° | 3412.1 | 1915.6 | 617.1 | 438.8 | 381.7 | 328.2 | 312.1 | 324.6 | 330.0 | 331.8 | 333.5 |
| 70° | 2411.5 | 1275.3 | 515.5 | 379.9 | 335.3 | 299.7 | 281.8 | 283.6 | 281.8 | 287.2 | 287.2 |
| 72.5° | 1311.0 | 734.9 | 419.2 | 322.8 | 289.0 | 260.4 | 247.9 | 239.0 | 239.0 | 237.2 | 237.2 |
| 73° | 1121.9 | 659.9 | 399.5 | 313.9 | 276.5 | 253.3 | 239.0 | 231.9 | 231.9 | 230.1 | 228.3 |
| 75° | 629.6 | 483.4 | 342.5 | 269.3 | 239.0 | 221.2 | 210.5 | 199.8 | 198.0 | 198.0 | 198.0 |
| 77.5° | 413.8 | 376.3 | 272.9 | 215.8 | 192.6 | 176.6 | 173.0 | 162.3 | 162.3 | 162.3 | 160.5 |
| 80° | 310.4 | 296.1 | 210.5 | 164.1 | 148.0 | 135.6 | 132.0 | 124.9 | 123.1 | 115.9 | 117.7 |
| 82.5° | 206.9 | 233.7 | 153.4 | 115.9 | 99.9 | 92.7 | 92.7 | 91.0 | 85.6 | 76.7 | 76.7 |
| 85° | 164.1 | 190.8 | 110.6 | 71.3 | 58.9 | 49.9 | 51.7 | 49.9 | 48.2 | 39.2 | 37.5 |
| 87.5° | 30.3 | 76.7 | 32.1 | 19.6 | 14.3 | 8.9 | 8.9 | 5.4 | 3.6 | 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)