

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: P483657

Luminaire Tested: **IFLD-S-SA3C-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483657
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

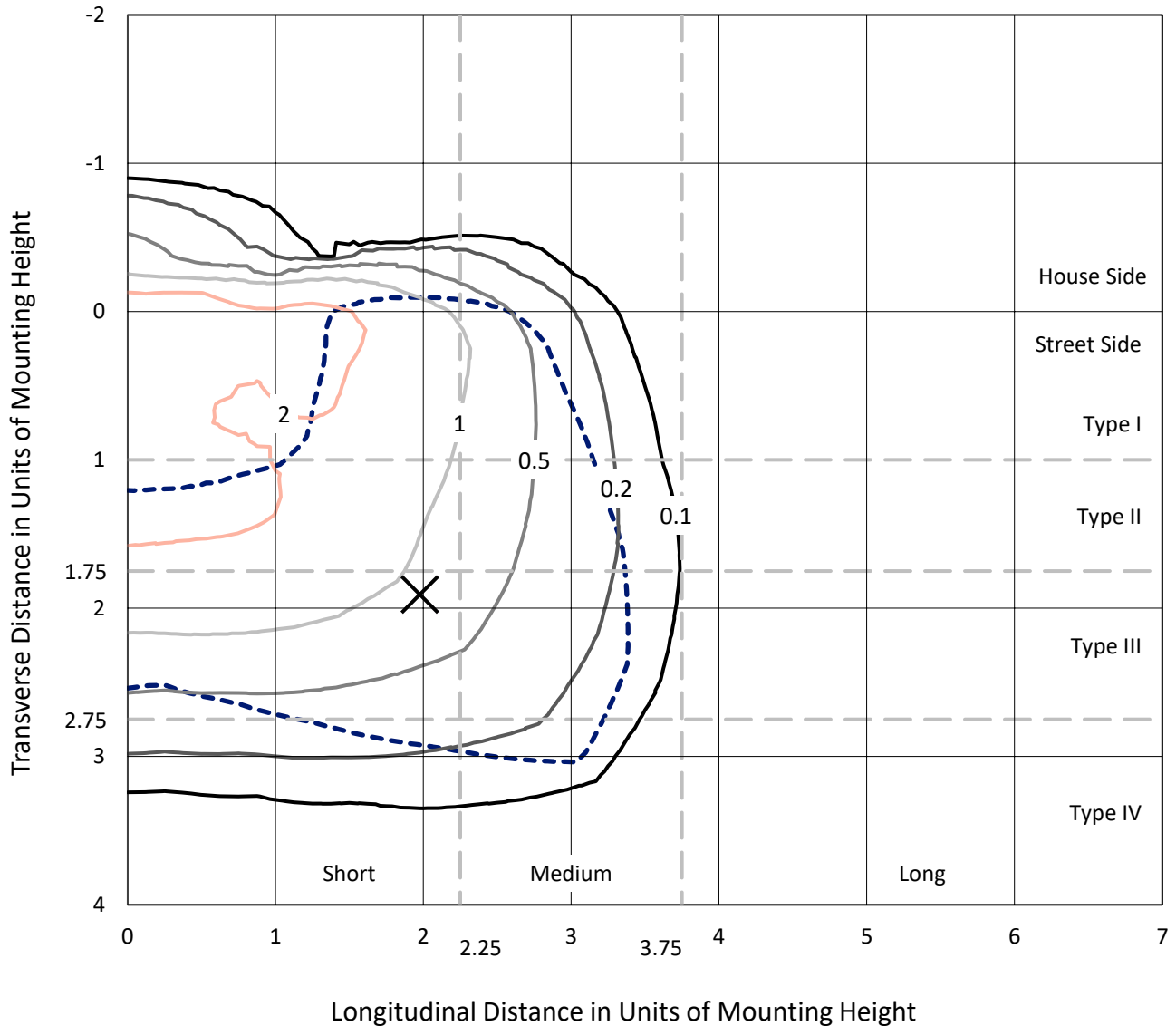
Lumens per Lamp: N/A
Luminaire Lumens: 15986.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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

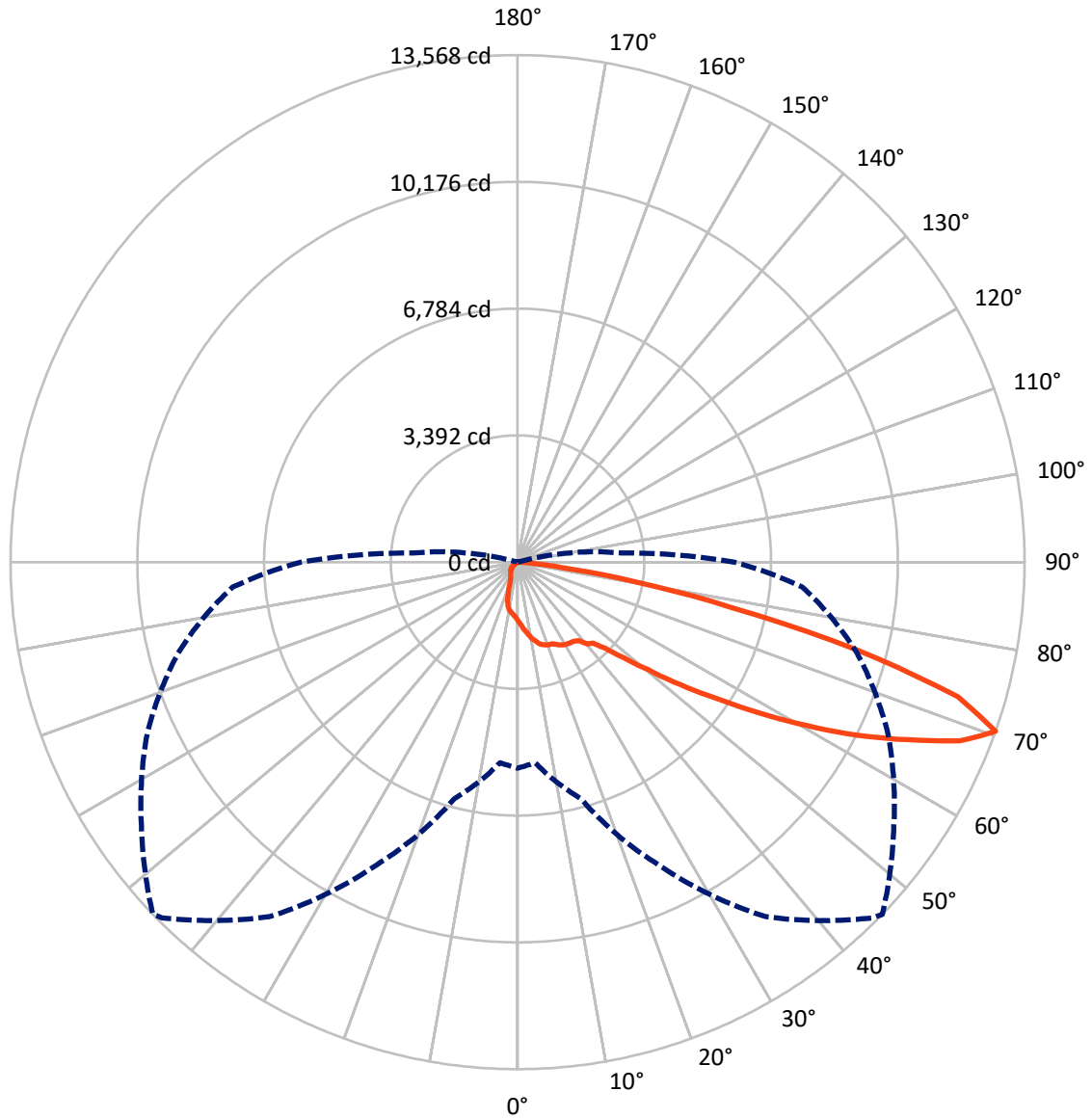
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1590.7 | 0.0 | 1590.7 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 14396.0 | 0.0 | 14396.0 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 15986.7 | 0.0 | 15986.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 156.5 | 1.0 |
| 10°-20° | 472.6 | 3.0 |
| 20°-30° | 757.0 | 4.7 |
| 30°-40° | 1080.5 | 6.8 |
| 40°-50° | 1865.7 | 11.7 |
| 50°-60° | 3572.0 | 22.3 |
| 60°-70° | 5289.6 | 33.1 |
| 70°-80° | 2619.9 | 16.4 |
| 80°-90° | 173.1 | 1.1 |
| 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° | 15986.7 | 100.0 |
| 0°-180° | 15986.7 | 100.0 |

Coefficient of Utilization

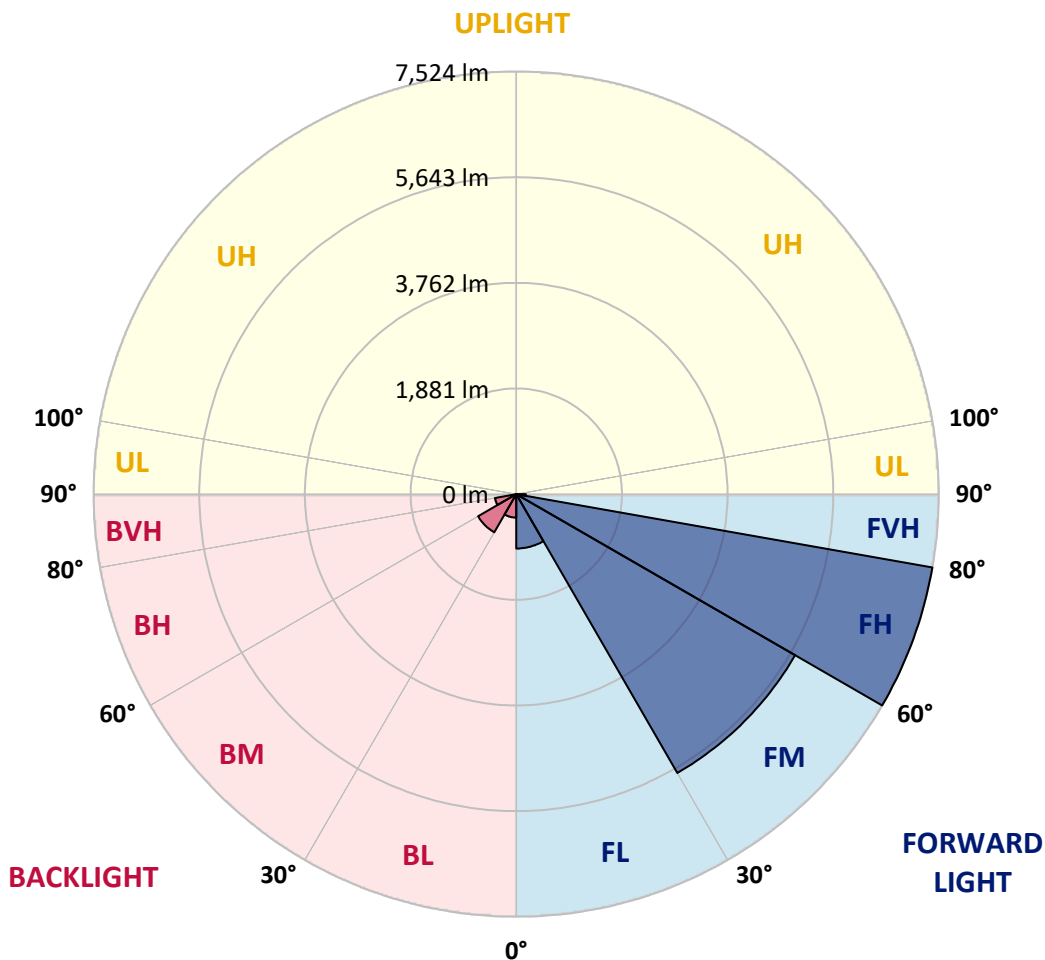


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 968.1 | 6.1 | | | |
| FM (30°-60°) | 5732.8 | 35.9 | | | |
| FH (60°-80°) | 7524.2 | 47.1 | | | G4/12000 |
| FVH (80°-90°) | 170.9 | 1.1 | | | G2/225 |
| BL (0°-30°) | 417.9 | 2.6 | B1/500 | | |
| BM (30°-60°) | 785.3 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 385.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 |
| 2.5° | 1751.2 | 1739.7 | 1721.3 | 1714.4 | 1696.0 | 1686.8 | 1673.0 | 1666.0 | 1640.7 | 1615.4 | 1599.3 |
| 5° | 1965.2 | 1937.6 | 1946.8 | 1919.2 | 1859.3 | 1811.0 | 1808.7 | 1755.8 | 1698.3 | 1652.2 | 1590.1 |
| 7.5° | 2181.5 | 2158.5 | 2124.0 | 2084.9 | 2018.1 | 1946.8 | 1926.1 | 1875.5 | 1794.9 | 1714.4 | 1631.5 |
| 10° | 2344.9 | 2328.8 | 2298.9 | 2243.6 | 2151.6 | 2071.1 | 2073.4 | 1988.2 | 1903.1 | 1811.0 | 1698.3 |
| 12.5° | 2446.1 | 2453.0 | 2409.3 | 2354.1 | 2273.6 | 2172.3 | 2170.0 | 2112.5 | 2015.8 | 1919.2 | 1785.7 |
| 15° | 2547.4 | 2572.7 | 2506.0 | 2441.5 | 2338.0 | 2264.4 | 2278.2 | 2209.1 | 2114.8 | 2004.3 | 1857.0 |
| 17.5° | 2563.5 | 2570.4 | 2556.6 | 2462.3 | 2386.3 | 2324.2 | 2326.5 | 2280.5 | 2209.1 | 2089.5 | 1962.9 |
| 20° | 2535.9 | 2531.3 | 2515.2 | 2446.1 | 2395.5 | 2358.7 | 2361.0 | 2349.5 | 2310.4 | 2213.7 | 2041.1 |
| 22.5° | 2455.3 | 2455.3 | 2434.6 | 2388.6 | 2365.6 | 2400.1 | 2372.5 | 2416.2 | 2374.8 | 2317.3 | 2174.6 |
| 25° | 2390.9 | 2416.2 | 2404.7 | 2374.8 | 2384.0 | 2430.0 | 2443.8 | 2485.3 | 2478.4 | 2407.0 | 2266.7 |
| 27.5° | 2460.0 | 2430.0 | 2436.9 | 2402.4 | 2436.9 | 2506.0 | 2512.9 | 2542.8 | 2540.5 | 2483.0 | 2349.5 |
| 30° | 2506.0 | 2533.6 | 2480.7 | 2404.7 | 2441.5 | 2558.9 | 2554.3 | 2593.4 | 2611.8 | 2542.8 | 2427.7 |
| 32.5° | 2653.2 | 2630.2 | 2586.5 | 2485.3 | 2489.9 | 2556.6 | 2577.3 | 2627.9 | 2639.4 | 2598.0 | 2503.7 |
| 35° | 2954.7 | 2920.2 | 2729.2 | 2577.3 | 2554.3 | 2586.5 | 2600.3 | 2699.3 | 2720.0 | 2674.0 | 2584.2 |
| 37.5° | 3419.5 | 3341.3 | 3111.2 | 2775.2 | 2671.7 | 2664.8 | 2664.8 | 2795.9 | 2874.2 | 2768.3 | 2703.9 |
| 40° | 4084.6 | 3974.1 | 3725.6 | 3141.1 | 2825.8 | 2853.5 | 2881.1 | 2952.4 | 2943.2 | 2874.2 | 2860.4 |
| 42.5° | 4931.4 | 4846.3 | 4577.0 | 3755.5 | 3120.4 | 2982.3 | 2959.3 | 3056.0 | 3200.9 | 3173.3 | 3164.1 |
| 45° | 5637.9 | 5642.5 | 5469.9 | 4597.7 | 3628.9 | 3279.2 | 3295.3 | 3368.9 | 3612.8 | 3592.1 | 3589.8 |
| 47.5° | 6153.3 | 6088.9 | 6063.6 | 5410.1 | 4369.9 | 3843.0 | 3819.9 | 3870.6 | 4188.1 | 4319.3 | 4379.1 |
| 50° | 6622.8 | 6579.0 | 6519.2 | 6199.4 | 5260.5 | 4549.4 | 4526.4 | 4531.0 | 5016.6 | 5200.6 | 5347.9 |
| 52.5° | 7205.0 | 7260.2 | 7062.3 | 6866.7 | 6413.4 | 5467.6 | 5442.3 | 5352.5 | 5955.4 | 6208.6 | 6383.4 |
| 55° | 7922.9 | 7819.4 | 7596.2 | 7697.4 | 7515.6 | 6459.4 | 6413.4 | 6307.5 | 7025.5 | 7131.3 | 7315.4 |
| 57.5° | 8081.7 | 8003.5 | 8233.6 | 8592.6 | 8767.5 | 7623.8 | 7605.4 | 7414.4 | 7925.2 | 7828.6 | 8348.6 |
| 60° | 8477.5 | 8498.2 | 8818.1 | 9531.4 | 9835.2 | 8967.7 | 8877.9 | 8541.9 | 8797.4 | 8815.8 | 9370.4 |
| 62.5° | 8884.8 | 8836.5 | 9552.2 | 10237.9 | 10705.0 | 10240.2 | 10210.3 | 9543.0 | 9832.9 | 9598.2 | 10332.3 |
| 65° | 8585.7 | 8659.3 | 9683.3 | 10831.6 | 11832.6 | 11485.1 | 11459.8 | 10507.1 | 10665.9 | 10373.7 | 10723.5 |
| 67.5° | 7522.5 | 7372.9 | 8806.6 | 10560.1 | 12412.5 | 12789.9 | 12762.3 | 11558.8 | 11135.4 | 10369.1 | 9911.1 |
| 70° | 5513.6 | 5384.7 | 6553.7 | 8942.3 | 11581.8 | 13457.2 | 13567.7 | 12290.5 | 10944.4 | 9402.6 | 7646.8 |
| 72.5° | 2701.6 | 2703.9 | 3672.7 | 6063.6 | 9163.3 | 12265.2 | 12320.5 | 11268.8 | 9402.6 | 6931.1 | 4330.8 |
| 75° | 798.5 | 807.7 | 1360.0 | 2973.1 | 5923.2 | 9315.1 | 9377.3 | 8553.4 | 6516.9 | 3580.6 | 1477.4 |
| 77.5° | 292.2 | 292.2 | 451.0 | 1116.1 | 2954.7 | 5879.5 | 5874.9 | 5251.3 | 3299.9 | 1212.7 | 345.2 |
| 80° | 151.9 | 158.8 | 234.7 | 455.6 | 1279.5 | 3062.9 | 3177.9 | 2570.4 | 1254.1 | 510.9 | 101.3 |
| 82.5° | 62.1 | 69.0 | 128.9 | 234.7 | 614.4 | 1074.6 | 1175.9 | 1007.9 | 545.4 | 356.7 | 46.0 |
| 85° | 18.4 | 20.7 | 62.1 | 131.2 | 241.6 | 269.2 | 299.2 | 338.3 | 342.9 | 276.1 | 20.7 |
| 87.5° | 2.3 | 2.3 | 25.3 | 43.7 | 52.9 | 57.5 | 66.7 | 66.7 | 174.9 | 193.3 | 11.5 |
| 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° | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 | 1569.4 |
| 2.5° | 1580.9 | 1569.4 | 1551.0 | 1509.6 | 1500.4 | 1470.4 | 1468.1 | 1440.5 | 1449.7 | 1431.3 | 1424.4 |
| 5° | 1569.4 | 1544.1 | 1493.5 | 1461.2 | 1429.0 | 1408.3 | 1394.5 | 1383.0 | 1380.7 | 1371.5 | 1366.9 |
| 7.5° | 1590.1 | 1555.6 | 1477.4 | 1426.7 | 1371.5 | 1353.1 | 1323.2 | 1320.9 | 1304.8 | 1288.7 | 1288.7 |
| 10° | 1659.1 | 1597.0 | 1511.9 | 1426.7 | 1355.4 | 1295.6 | 1226.5 | 1175.9 | 1157.5 | 1116.1 | 1120.7 |
| 12.5° | 1714.4 | 1659.1 | 1534.9 | 1447.4 | 1339.3 | 1203.5 | 1051.6 | 934.3 | 879.0 | 826.1 | 846.8 |
| 15° | 1792.6 | 1712.1 | 1578.6 | 1452.0 | 1277.1 | 1042.4 | 793.9 | 662.7 | 612.1 | 600.6 | 598.3 |
| 17.5° | 1877.8 | 1792.6 | 1633.8 | 1440.5 | 1150.6 | 805.4 | 584.5 | 508.6 | 517.8 | 531.6 | 529.3 |
| 20° | 1972.1 | 1868.6 | 1675.3 | 1401.4 | 950.4 | 584.5 | 478.6 | 476.3 | 490.1 | 510.9 | 515.5 |
| 22.5° | 2071.1 | 1981.3 | 1725.9 | 1284.1 | 708.8 | 469.4 | 460.2 | 460.2 | 469.4 | 494.8 | 490.1 |
| 25° | 2181.5 | 2061.8 | 1751.2 | 1102.3 | 508.6 | 432.6 | 437.2 | 446.4 | 451.0 | 471.7 | 474.0 |
| 27.5° | 2266.7 | 2151.6 | 1758.1 | 883.6 | 414.2 | 400.4 | 411.9 | 423.4 | 430.3 | 446.4 | 453.3 |
| 30° | 2344.9 | 2264.4 | 1721.3 | 658.1 | 379.7 | 372.8 | 377.4 | 393.5 | 407.3 | 421.1 | 421.1 |
| 32.5° | 2443.8 | 2328.8 | 1636.1 | 467.1 | 359.0 | 347.5 | 345.2 | 352.1 | 368.2 | 384.3 | 384.3 |
| 35° | 2545.1 | 2436.9 | 1500.4 | 375.1 | 340.6 | 324.5 | 315.3 | 308.4 | 315.3 | 326.8 | 336.0 |
| 37.5° | 2692.4 | 2600.3 | 1330.1 | 345.2 | 326.8 | 303.8 | 285.3 | 269.2 | 257.7 | 255.4 | 262.3 |
| 40° | 2901.8 | 2784.4 | 1111.5 | 324.5 | 310.7 | 283.0 | 255.4 | 227.8 | 202.5 | 186.4 | 188.7 |
| 42.5° | 3219.3 | 3056.0 | 874.4 | 313.0 | 299.2 | 260.0 | 220.9 | 181.8 | 149.6 | 133.5 | 133.5 |
| 45° | 3672.7 | 3414.9 | 642.0 | 301.5 | 285.3 | 232.4 | 181.8 | 135.8 | 103.6 | 94.3 | 96.6 |
| 47.5° | 4356.1 | 3847.6 | 460.2 | 283.0 | 266.9 | 202.5 | 142.7 | 96.6 | 75.9 | 71.3 | 73.6 |
| 50° | 5249.0 | 4360.7 | 359.0 | 262.3 | 243.9 | 170.3 | 105.9 | 71.3 | 59.8 | 57.5 | 59.8 |
| 52.5° | 6185.5 | 4878.5 | 315.3 | 243.9 | 209.4 | 135.8 | 78.2 | 57.5 | 50.6 | 48.3 | 50.6 |
| 55° | 6986.4 | 5212.2 | 273.8 | 216.3 | 168.0 | 101.3 | 62.1 | 50.6 | 43.7 | 36.8 | 36.8 |
| 57.5° | 7796.4 | 5380.1 | 216.3 | 179.5 | 124.3 | 75.9 | 52.9 | 43.7 | 36.8 | 29.9 | 27.6 |
| 60° | 8454.5 | 5499.8 | 154.2 | 133.5 | 87.4 | 59.8 | 46.0 | 39.1 | 29.9 | 23.0 | 20.7 |
| 62.5° | 8887.1 | 5156.9 | 112.8 | 101.3 | 64.4 | 50.6 | 39.1 | 32.2 | 23.0 | 16.1 | 16.1 |
| 65° | 8673.1 | 4682.9 | 87.4 | 71.3 | 48.3 | 39.1 | 32.2 | 23.0 | 16.1 | 9.2 | 6.9 |
| 67.5° | 7782.6 | 3815.3 | 71.3 | 52.9 | 36.8 | 29.9 | 25.3 | 18.4 | 9.2 | 2.3 | 2.3 |
| 70° | 5805.9 | 2795.9 | 57.5 | 39.1 | 29.9 | 23.0 | 18.4 | 11.5 | 4.6 | 2.3 | 0.0 |
| 72.5° | 3175.6 | 1530.3 | 46.0 | 32.2 | 23.0 | 18.4 | 13.8 | 9.2 | 4.6 | 0.0 | 0.0 |
| 75° | 1049.3 | 407.3 | 34.5 | 23.0 | 13.8 | 11.5 | 9.2 | 6.9 | 2.3 | 0.0 | 0.0 |
| 77.5° | 253.1 | 105.9 | 27.6 | 20.7 | 11.5 | 6.9 | 4.6 | 2.3 | 2.3 | 0.0 | 0.0 |
| 80° | 78.2 | 43.7 | 20.7 | 13.8 | 9.2 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 32.2 | 20.7 | 9.2 | 9.2 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.1 | 11.5 | 6.9 | 4.6 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.5 | 4.6 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)