Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P636477

Luminaire Tested: **IFLD-S-SA2B-935-U-55-VI**

Issue Date: 01/17/2023

Report Generated By 670245763

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P636477 |
| Test Lab: | INNOVATION CENTER(G2) |
| Issue Date: | 01/17/2023 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | IFLD-S-SA2B-935-U-55-VI |
| Description: | Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor |
| Light Source: | (32) 3500K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6273.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 76.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type I - Short |
| BUG Rating: | B3 - U0 - G0 |

| | |
|---|---|
| Input Watts (W): | 82.4 |
| 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: | 25 FT |

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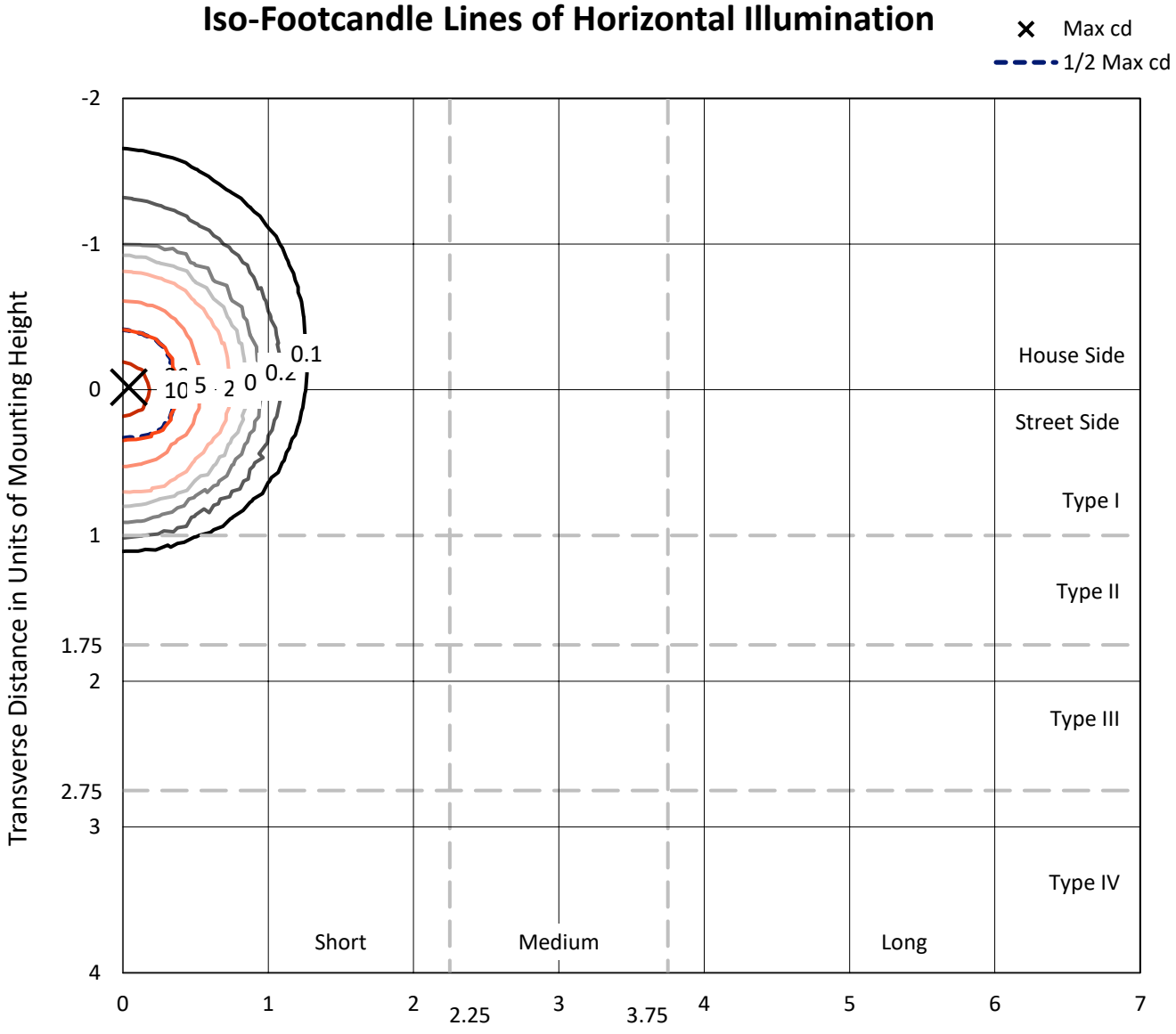
## Iso-Footcandle Lines of Horizontal Illumination




Based on 20 foot mounting height. Maximum calculated value = 25.2 fc
Type I - Short - N/A

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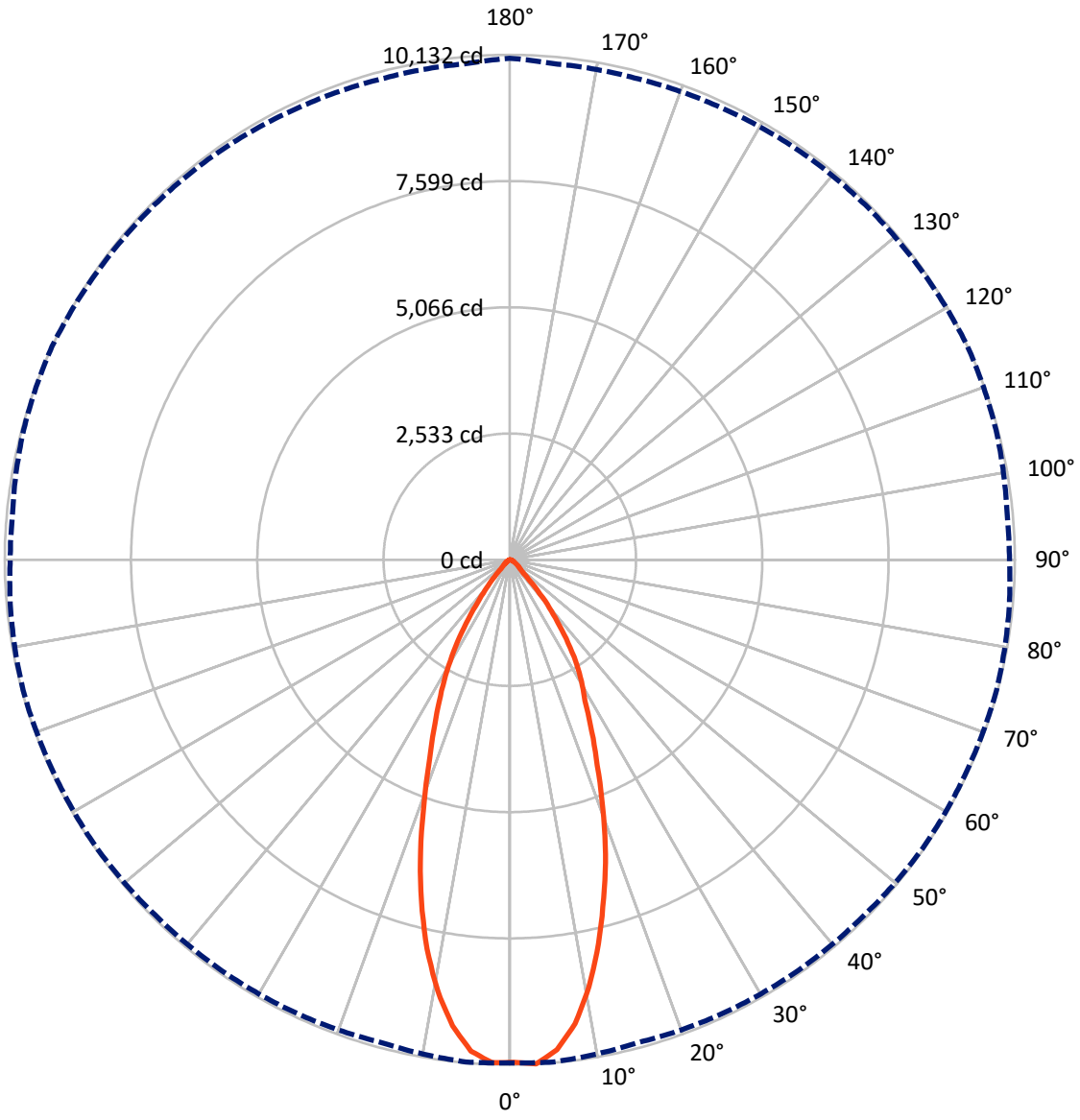
## Luminous Intensity Polar Plot



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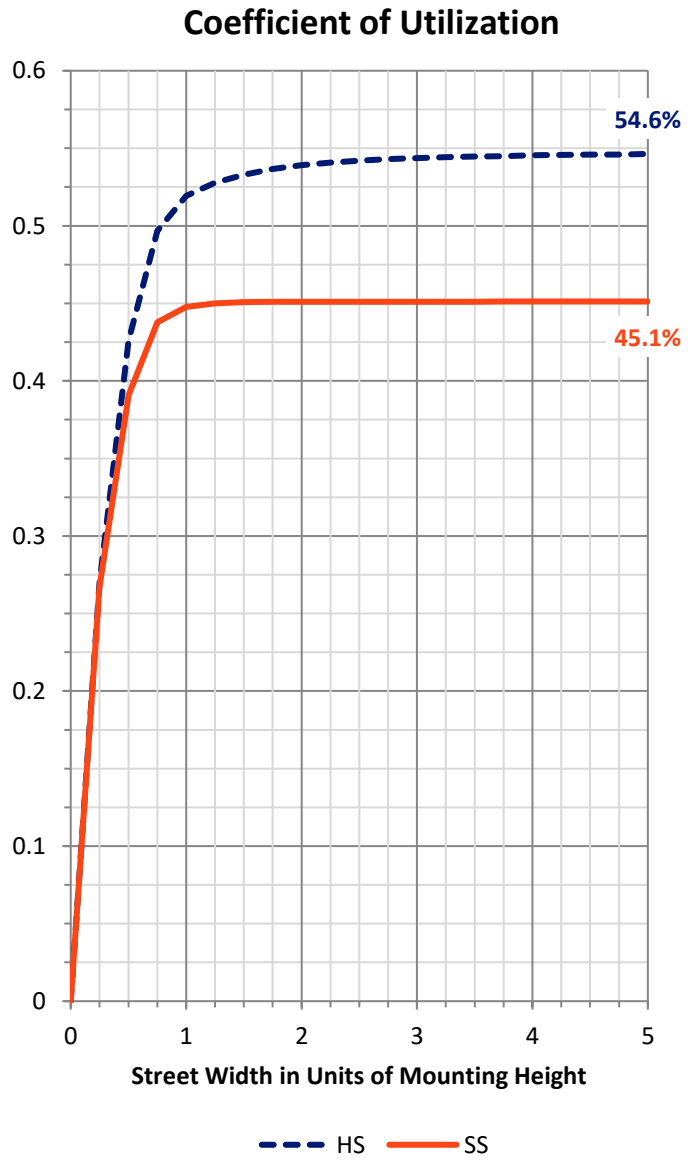
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3462.2 | 0.0 | 3462.2 |
| | % Fixture | 55.2 | 0.0 | 55.2 |
| **Street Side** | Lumens | 2811.3 | 0.0 | 2811.3 |
| | % Fixture | 44.8 | 0.0 | 44.8 |
| **Total** | Lumens | 6273.5 | 0.0 | 6273.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 904.5 | 14.4 |
| 10°-20° | 1911.7 | 30.5 |
| 20°-30° | 1725.4 | 27.5 |
| 30°-40° | 1141.8 | 18.2 |
| 40°-50° | 342.0 | 5.5 |
| 50°-60° | 137.2 | 2.2 |
| 60°-70° | 71.0 | 1.1 |
| 70°-80° | 30.8 | 0.5 |
| 80°-90° | 9.0 | 0.1 |
| 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° | 6273.5 | 100.0 |
| 0°-180° | 6273.5 | 100.0 |



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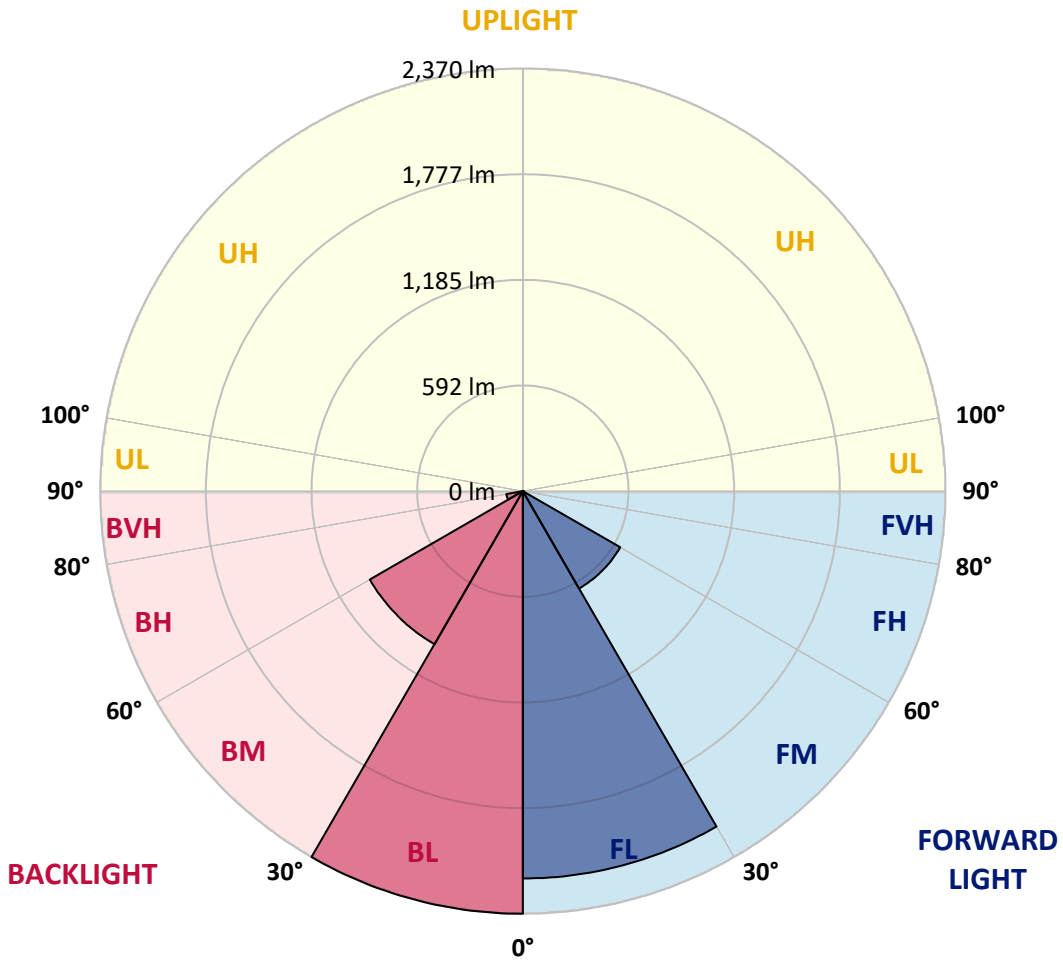
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2171.9 | 34.6 | | | |
| FM | (30°-60°) | 630.2 | 10.0 | | | |
| FH | (60°-80°) | 7.8 | 0.1 | | | G0/660 |
| FVH | (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| BL | (0°-30°) | 2369.7 | 37.8 | B3/2500 | | |
| BM | (30°-60°) | 990.8 | 15.8 | B1/1000 | | |
| BH | (60°-80°) | 94.1 | 1.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G0**
Type I Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 |
| 2.5° | *10097.5* | *10115.4* | *10025.6* | *10056.4* | *10069.2* | *10073.1* | *10105.2* | *10100.0* | *10109.0* | *10061.5* |
| 5° | 9964.0 | 9929.4 | 9862.7 | 9864.0 | 9860.1 | 9824.2 | 9897.3 | 9892.2 | 9876.8 | 9820.3 |
| 7.5° | 9509.8 | 9559.9 | 9434.1 | 9431.6 | 9429.0 | 9385.4 | 9481.6 | 9422.6 | 9435.4 | 9354.6 |
| 10° | 8845.2 | 8851.6 | 8740.0 | 8729.8 | 8738.7 | 8682.3 | 8793.9 | 8770.8 | 8795.2 | 8710.5 |
| 12.5° | 8030.5 | 8066.4 | 7943.3 | 7925.3 | 7961.2 | 7881.7 | 7971.5 | 7983.0 | 7947.1 | 7935.6 |
| 15° | 6298.4 | 6393.3 | 6626.9 | 6983.5 | 7075.9 | 7009.2 | 7081.1 | 7079.8 | 7095.2 | 7007.9 |
| 17.5° | 4798.5 | 4807.5 | 4752.4 | 4923.0 | 5910.9 | 6231.7 | 6247.1 | 6125.2 | 6032.8 | 6000.7 |
| 20° | 4189.1 | 4219.9 | 4169.9 | 4184.0 | 4341.8 | 5282.2 | 5318.2 | 5134.7 | 4976.9 | 4964.1 |
| 22.5° | 3704.1 | 3723.4 | 3687.4 | 3699.0 | 3706.7 | 3817.0 | 4441.9 | 4280.2 | 4204.5 | 4146.8 |
| 25° | 3293.5 | 3293.5 | 3274.3 | 3278.1 | 3270.4 | 3107.5 | 3428.3 | 3613.0 | 3569.4 | 3548.9 |
| 27.5° | 2918.9 | 2924.0 | 2899.7 | 2913.8 | 2820.1 | 2557.1 | 2518.6 | 3063.9 | 3017.7 | 2980.5 |
| 30° | 2563.5 | 2580.2 | 2557.1 | 2564.8 | 2360.8 | 2145.2 | 2034.9 | 2555.8 | 2613.5 | 2603.3 |
| 32.5° | 1929.7 | 2005.4 | 2191.4 | 2199.1 | 1922.0 | 1756.5 | 1707.7 | 2051.6 | 2271.0 | 2251.7 |
| 35° | 1195.8 | 1191.9 | 1199.6 | 1569.1 | 1474.2 | 1361.3 | 1379.3 | 1549.9 | 1797.5 | 1788.5 |
| 37.5° | 912.2 | 911.0 | 925.1 | 887.9 | 966.1 | 1032.8 | 1047.0 | 1047.0 | 1312.5 | 1313.8 |
| 40° | 691.6 | 686.4 | 685.1 | 626.1 | 524.8 | 775.0 | 751.9 | 732.6 | 912.2 | 931.5 |
| 42.5° | 441.4 | 456.8 | 445.2 | 381.1 | 342.6 | 423.4 | 472.2 | 456.8 | 563.3 | 577.4 |
| 45° | 246.3 | 246.3 | 236.1 | 200.2 | 198.9 | 214.3 | 269.4 | 251.5 | 288.7 | 307.9 |
| 47.5° | 119.3 | 116.8 | 128.3 | 157.8 | 164.2 | 159.1 | 192.5 | 200.2 | 218.1 | 236.1 |
| 50° | 96.2 | 96.2 | 91.1 | 82.1 | 136.0 | 130.9 | 142.4 | 152.7 | 162.9 | 178.3 |
| 52.5° | 80.8 | 80.8 | 74.4 | 69.3 | 78.3 | 100.1 | 101.4 | 120.6 | 119.3 | 141.1 |
| 55° | 41.1 | 42.3 | 60.3 | 60.3 | 52.6 | 82.1 | 83.4 | 97.5 | 100.1 | 118.0 |
| 57.5° | 3.8 | 5.1 | 7.7 | 37.2 | 41.1 | 44.9 | 62.9 | 71.8 | 83.4 | 91.1 |
| 60° | 1.3 | 1.3 | 2.6 | 5.1 | 24.4 | 30.8 | 39.8 | 47.5 | 57.7 | 75.7 |
| 62.5° | 0.0 | 0.0 | 1.3 | 2.6 | 5.1 | 19.2 | 21.8 | 24.4 | 34.6 | 47.5 |
| 65° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 6.4 | 9.0 | 15.4 | 21.8 | 29.5 |
| 67.5° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 5.1 | 7.7 | 10.3 | 19.2 |
| 70° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 3.8 | 5.1 | 6.4 | 9.0 |
| 72.5° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 5.1 | 3.8 | 3.8 | 5.1 | 6.4 |
| 75° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 77.5° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 3.8 | 3.8 | 2.6 | 2.6 |
| 80° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 5.1 | 5.1 | 2.6 | 2.6 |
| 82.5° | 0.0 | 0.0 | 1.3 | 2.6 | 2.6 | 6.4 | 7.7 | 6.4 | 2.6 | 1.3 |
| 85° | 0.0 | 0.0 | 1.3 | 1.3 | 3.8 | 6.4 | 6.4 | 3.8 | 2.6 | 1.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 3.8 | 3.8 | 1.3 | 1.3 |
| 90° | 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° |
|---|---|---|---|---|---|---|---|---|---|---|
| 10084.6 | 0° | 10084.6 | 10084.6 | *10084.6* | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 | 10084.6 |
| *10023.0* | 2.5° | *10017.9* | *10096.2* | *10132.1* | *10094.9* | *10076.9* | *10051.3* | *10014.1* | *9988.4* | *9993.5* |
| 9789.5 | 5° | 9767.7 | 9849.8 | *9878.1* | 9846.0 | 9819.0 | 9804.9 | 9798.5 | 9811.3 | 9844.7 |
| 9319.9 | 7.5° | 9317.4 | 9370.0 | *9400.8* | 9385.4 | 9348.2 | 9390.5 | 9402.1 | 9394.4 | 9443.1 |
| 8684.8 | 10° | 8687.4 | 8745.1 | *8716.9* | 8723.3 | 8679.7 | 8701.5 | 8695.1 | 8723.3 | 8772.1 |
| 7926.6 | 12.5° | 7875.3 | 7930.4 | *7908.6* | 7904.8 | 7858.6 | 7899.6 | 7874.0 | 7904.8 | 7968.9 |
| 6972.0 | 15° | 7022.0 | 7056.7 | *7042.6* | 7020.8 | 6979.7 | 6993.8 | 7073.4 | 7068.2 | 7096.5 |
| 5981.5 | 17.5° | 5955.8 | 6122.6 | *6213.7* | 6233.0 | 6199.6 | 6227.8 | 6284.3 | 6270.2 | 6334.3 |
| 4937.1 | 20° | 4928.1 | 5096.2 | *5320.7* | 5502.9 | 5506.8 | 5510.6 | 5546.5 | 5555.5 | 5610.7 |
| 4148.0 | 22.5° | 4130.1 | 4249.4 | *4490.6* | 4731.8 | 4898.6 | 4933.3 | 4929.4 | 4942.2 | 4957.6 |
| 3520.6 | 25° | 3511.7 | 3598.9 | *3819.6* | 3986.4 | 4278.9 | 4376.4 | 4404.6 | 4376.4 | 4385.4 |
| 2967.7 | 27.5° | 3001.0 | 3134.4 | *3207.6* | 3385.9 | 3672.0 | 3897.9 | 3888.9 | 3872.2 | 3874.8 |
| 2582.7 | 30° | 2581.5 | 2725.2 | *2832.9* | 2886.8 | 3102.4 | 3428.3 | 3461.6 | 3414.1 | 3415.4 |
| 2242.7 | 32.5° | 2228.6 | 2273.5 | *2432.6* | 2476.3 | 2614.8 | 2911.2 | 3025.4 | 2989.5 | 2983.0 |
| 1793.7 | 35° | 1846.3 | 1870.7 | *1943.8* | 2029.8 | 2111.9 | 2336.4 | 2525.0 | 2491.6 | 2508.3 |
| 1319.0 | 37.5° | 1313.8 | 1413.9 | *1484.5* | 1555.0 | 1614.1 | 1755.2 | 1982.3 | 1951.5 | 1968.2 |
| 934.0 | 40° | 926.3 | 971.3 | *1093.1* | 1123.9 | 1211.2 | 1276.6 | 1469.1 | 1458.8 | 1479.3 |
| 579.9 | 42.5° | 569.7 | 601.7 | *663.3* | 692.8 | 751.9 | 789.1 | 902.0 | 914.8 | 941.7 |
| 320.8 | 45° | 323.3 | 337.4 | *379.8* | 411.9 | 455.5 | 470.9 | 510.6 | 528.6 | 544.0 |
| 248.9 | 47.5° | 246.3 | 261.7 | *290.0* | 318.2 | 354.1 | 366.9 | 395.2 | 422.1 | 436.2 |
| 192.5 | 50° | 201.4 | 215.5 | *245.1* | 268.2 | 304.1 | 315.6 | 338.7 | 368.2 | 386.2 |
| 146.3 | 52.5° | 152.7 | 173.2 | *209.1* | 233.5 | 270.7 | 284.8 | 306.6 | 336.2 | 352.8 |
| 120.6 | 55° | 125.7 | 141.1 | *173.2* | 206.6 | 241.2 | 260.5 | 274.6 | 310.5 | 328.5 |
| 98.8 | 57.5° | 107.8 | 119.3 | *139.9* | 179.6 | 209.1 | 237.4 | 248.9 | 282.3 | 300.2 |
| 78.3 | 60° | 82.1 | 100.1 | *118.0* | 148.8 | 182.2 | 211.7 | 224.5 | 254.0 | 268.2 |
| 56.5 | 62.5° | 68.0 | 79.5 | *102.6* | 119.3 | 156.5 | 187.3 | 200.2 | 227.1 | 237.4 |
| 37.2 | 65° | 47.5 | 64.2 | *86.0* | 96.2 | 130.9 | 160.4 | 178.3 | 198.9 | 209.1 |
| 21.8 | 67.5° | 28.2 | 47.5 | *68.0* | 82.1 | 106.5 | 136.0 | 155.2 | 174.5 | 183.5 |
| 12.8 | 70° | 18.0 | 37.2 | *53.9* | 69.3 | 83.4 | 111.6 | 134.7 | 151.4 | 147.5 |
| 7.7 | 72.5° | 10.3 | 23.1 | *39.8* | 56.5 | 69.3 | 93.7 | 115.5 | 128.3 | 91.1 |
| 5.1 | 75° | 6.4 | 16.7 | *33.4* | 46.2 | 56.5 | 74.4 | 94.9 | 97.5 | 56.5 |
| 2.6 | 77.5° | 5.1 | 12.8 | *25.7* | 37.2 | 38.5 | 55.2 | 66.7 | 75.7 | 42.3 |
| 2.6 | 80° | 2.6 | 10.3 | *21.8* | 30.8 | 24.4 | 38.5 | 51.3 | 59.0 | 33.4 |
| 1.3 | 82.5° | 2.6 | 6.4 | *16.7* | 21.8 | 18.0 | 29.5 | 37.2 | 42.3 | 28.2 |
| 1.3 | 85° | 1.3 | 5.1 | *9.0* | 12.8 | 12.8 | 19.2 | 16.7 | 20.5 | 18.0 |
| 1.3 | 87.5° | 1.3 | 2.6 | *5.1* | 6.4 | 5.1 | 7.7 | 9.0 | 9.0 | 7.7 |
| 0.0 | 90° | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| 180° |
|---|
| 10084.6 |
| *10062.8* |
| 9914.0 |
| 9491.9 |
| 8791.3 |
| 7980.5 |
| 7102.9 |
| 6324.1 |
| 5599.2 |
| 4929.4 |
| 4371.3 |
| 3878.6 |
| 3416.7 |
| 2998.4 |
| 2523.7 |
| 1982.3 |
| 1487.0 |
| 972.5 |
| 542.7 |
| 442.6 |
| 393.9 |
| 364.4 |
| 333.6 |
| 307.9 |
| 270.7 |
| 238.6 |
| 209.1 |
| 182.2 |
| 136.0 |
| 80.8 |
| 52.6 |
| 42.3 |
| 34.6 |
| 30.8 |
| 18.0 |
| 6.4 |
| 0.0 |

(END OF REPORT)