

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: P480538

Luminaire Tested: **IFLD-S-SA3D-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480538
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

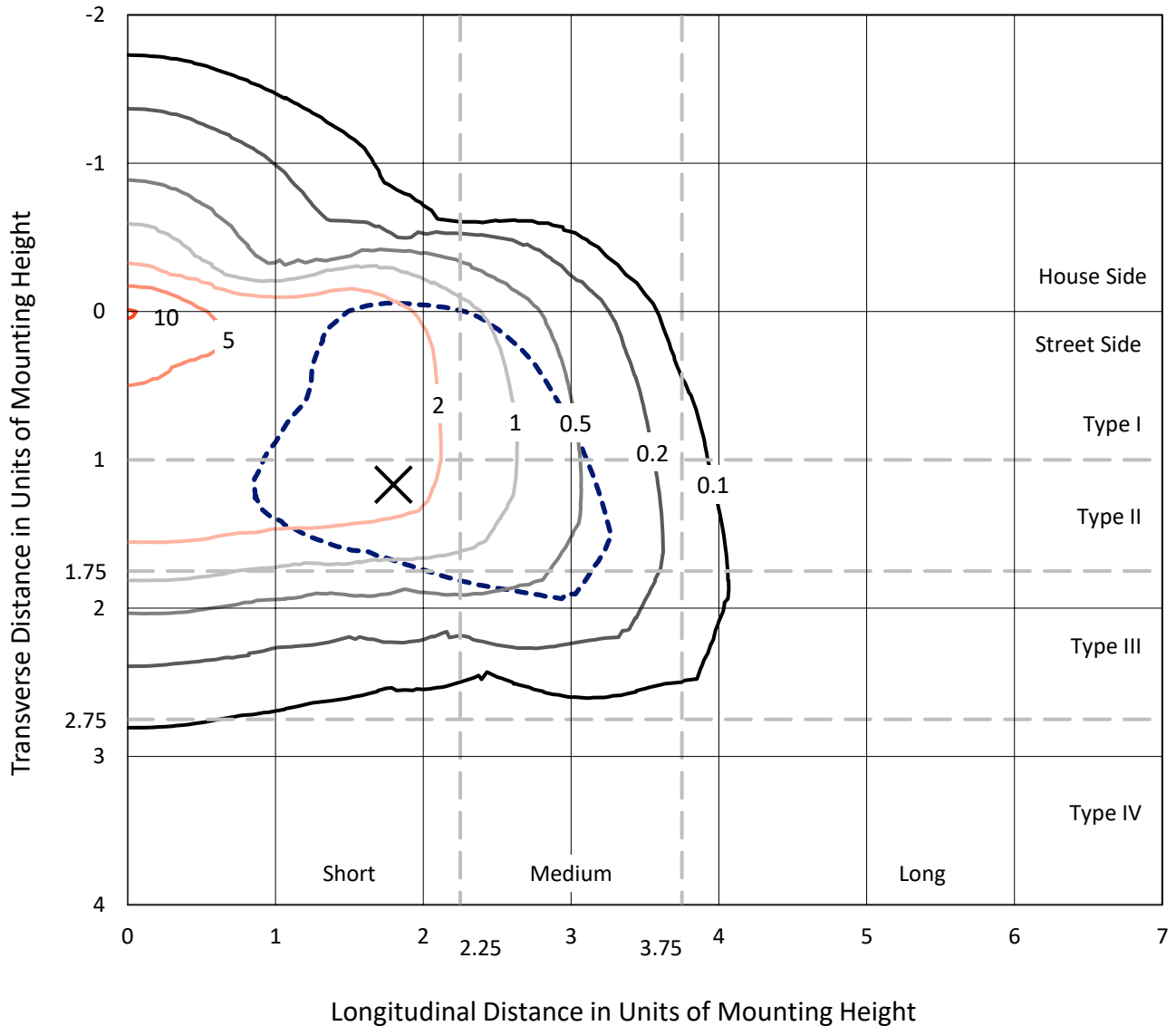
Lumens per Lamp: N/A
Luminaire Lumens: 23524.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

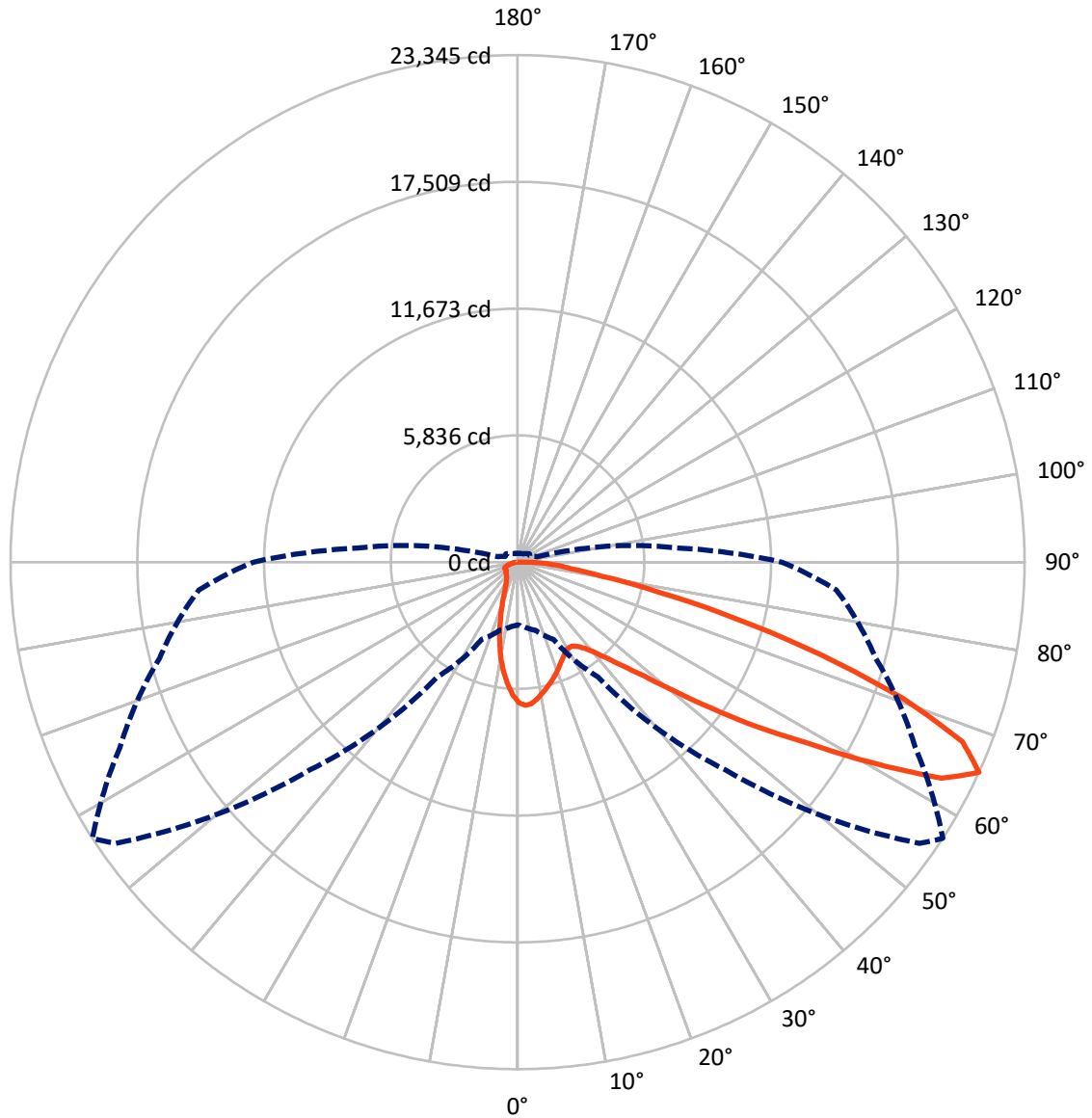
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3607.7 | 0.0 | 3607.7 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 19916.6 | 0.0 | 19916.6 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 23524.3 | 0.0 | 23524.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 541.7 | 2.3 |
| 10°-20° | 1165.9 | 5.0 |
| 20°-30° | 1507.3 | 6.4 |
| 30°-40° | 2028.4 | 8.6 |
| 40°-50° | 3234.4 | 13.7 |
| 50°-60° | 5712.7 | 24.3 |
| 60°-70° | 6284.7 | 26.7 |
| 70°-80° | 2629.0 | 11.2 |
| 80°-90° | 420.2 | 1.8 |
| 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° | 23524.3 | 100.0 |
| 0°-180° | 23524.3 | 100.0 |

Coefficient of Utilization



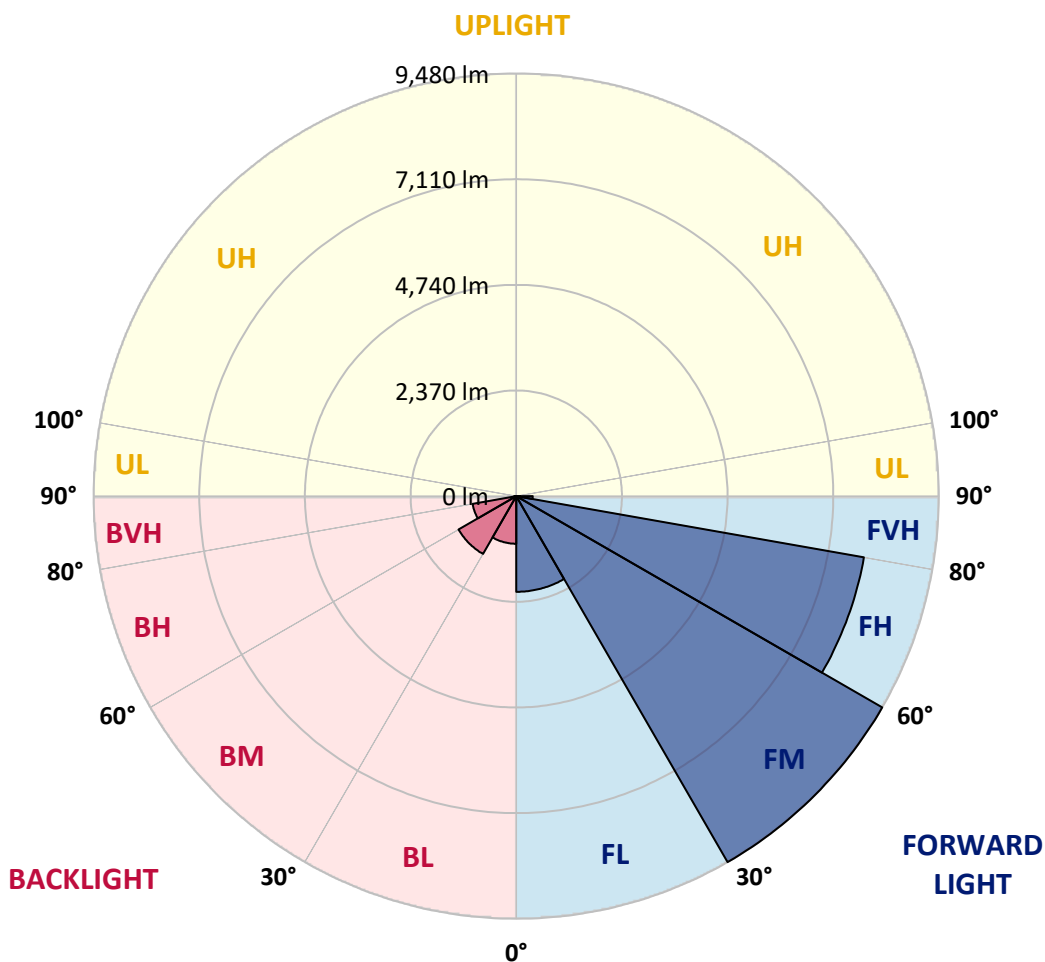
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2146.5 | 9.1 | | | |
| FM (30°-60°) | 9480.2 | 40.3 | | | |
| FH (60°-80°) | 7919.0 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 370.9 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1068.4 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 1495.2 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 994.7 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 |
| 2.5° | 6643.5 | 6654.1 | 6654.1 | 6675.3 | 6603.8 | 6638.2 | 6632.9 | 6601.2 | 6611.8 | 6556.2 | 6500.6 |
| 5° | 6455.6 | 6447.7 | 6490.0 | 6495.3 | 6550.9 | 6566.8 | 6580.0 | 6558.8 | 6564.1 | 6442.4 | 6389.4 |
| 7.5° | 5973.9 | 5971.2 | 6042.7 | 6103.6 | 6220.0 | 6328.6 | 6400.0 | 6378.9 | 6408.0 | 6331.2 | 6206.8 |
| 10° | 5402.2 | 5463.0 | 5537.2 | 5598.0 | 5812.4 | 5950.1 | 6135.3 | 6153.9 | 6265.0 | 6246.5 | 6021.5 |
| 12.5° | 4973.4 | 4999.9 | 5055.4 | 5230.1 | 5426.0 | 5653.6 | 5918.3 | 5942.1 | 6050.6 | 6103.6 | 5907.7 |
| 15° | 4621.4 | 4645.2 | 4716.6 | 4846.3 | 5066.0 | 5336.0 | 5672.1 | 5733.0 | 5950.1 | 5968.6 | 5759.5 |
| 17.5° | 4364.6 | 4383.1 | 4430.8 | 4560.5 | 4740.5 | 5087.2 | 5404.8 | 5513.3 | 5799.2 | 5889.2 | 5606.0 |
| 20° | 4264.0 | 4224.3 | 4250.8 | 4332.9 | 4512.8 | 4780.2 | 5190.4 | 5285.7 | 5651.0 | 5828.3 | 5460.4 |
| 22.5° | 4219.0 | 4184.6 | 4200.5 | 4195.2 | 4338.1 | 4528.7 | 4960.2 | 5060.7 | 5510.7 | 5756.8 | 5330.7 |
| 25° | 4253.4 | 4253.4 | 4237.6 | 4224.3 | 4240.2 | 4364.6 | 4711.3 | 4867.5 | 5322.8 | 5696.0 | 5198.4 |
| 27.5° | 4438.7 | 4367.3 | 4375.2 | 4319.6 | 4303.7 | 4303.7 | 4600.2 | 4692.8 | 5261.9 | 5661.6 | 5089.8 |
| 30° | 4557.8 | 4592.2 | 4594.9 | 4512.8 | 4430.8 | 4282.6 | 4497.0 | 4586.9 | 5211.6 | 5703.9 | 5026.3 |
| 32.5° | 4862.2 | 4846.3 | 4801.3 | 4785.5 | 4663.7 | 4497.0 | 4547.2 | 4608.1 | 5182.5 | 5799.2 | 5044.9 |
| 35° | 5166.6 | 5158.7 | 5161.3 | 5153.4 | 5026.3 | 4780.2 | 4682.2 | 4764.3 | 5235.4 | 5965.9 | 5108.4 |
| 37.5° | 5481.6 | 5502.8 | 5592.7 | 5592.7 | 5457.8 | 5190.4 | 5060.7 | 5036.9 | 5428.6 | 6238.6 | 5259.2 |
| 40° | 5796.5 | 5849.5 | 5963.3 | 6143.3 | 5952.7 | 5703.9 | 5494.8 | 5457.8 | 5661.6 | 6603.8 | 5621.9 |
| 42.5° | 6098.3 | 6185.6 | 6410.6 | 6677.9 | 6614.4 | 6365.6 | 6087.7 | 6045.4 | 6140.6 | 7146.4 | 6127.4 |
| 45° | 6484.7 | 6558.8 | 6913.5 | 7323.8 | 7411.1 | 7191.4 | 6865.9 | 6831.5 | 6826.2 | 7940.5 | 6823.5 |
| 47.5° | 7072.3 | 7151.7 | 7506.4 | 7919.3 | 8189.3 | 8223.7 | 7858.4 | 7821.4 | 7694.3 | 9012.4 | 7842.5 |
| 50° | 7808.1 | 7937.8 | 8236.9 | 8718.6 | 9110.4 | 9478.3 | 9375.1 | 9266.5 | 9017.7 | 10259.1 | 9134.2 |
| 52.5° | 8345.4 | 8504.3 | 8909.2 | 9525.9 | 10216.7 | 10801.7 | 11172.3 | 11172.3 | 10600.5 | 11627.5 | 10687.9 |
| 55° | 8488.4 | 8583.7 | 9094.5 | 9986.5 | 11169.6 | 12649.2 | 13424.7 | 13366.5 | 12485.1 | 13067.4 | 12495.7 |
| 57.5° | 7919.3 | 8043.7 | 8663.1 | 9597.4 | 11669.9 | 14377.6 | 15661.3 | 15674.5 | 14544.3 | 14740.2 | 14279.6 |
| 60° | 6352.4 | 6392.1 | 7122.6 | 8371.9 | 11188.1 | 15769.8 | 18715.7 | 18766.0 | 16886.7 | 16230.3 | 15187.5 |
| 62.5° | 4391.1 | 4518.1 | 5068.7 | 6164.5 | 9269.2 | 15613.6 | 21661.6 | 21910.4 | 18763.3 | 17016.4 | 15330.4 |
| 65° | 2890.3 | 2967.1 | 3260.9 | 3927.9 | 6453.0 | 13533.2 | 22577.4 | 23345.0 | 20197.9 | 17061.4 | 14732.2 |
| 67.5° | 2096.3 | 2109.5 | 2196.9 | 2541.0 | 3877.6 | 9732.4 | 21013.2 | 22095.7 | 20735.2 | 16685.6 | 13329.4 |
| 70° | 1694.0 | 1704.6 | 1736.3 | 1956.0 | 2503.9 | 6090.3 | 17138.2 | 18834.8 | 19123.3 | 14904.3 | 10735.5 |
| 72.5° | 1376.3 | 1389.6 | 1429.3 | 1635.7 | 2064.5 | 3387.9 | 12532.7 | 14599.9 | 15555.4 | 11026.7 | 7135.8 |
| 75° | 1082.6 | 1093.1 | 1188.4 | 1392.2 | 1940.1 | 2326.6 | 8313.7 | 10338.5 | 10468.2 | 6445.0 | 3340.3 |
| 77.5° | 741.1 | 759.6 | 876.1 | 1180.5 | 1826.3 | 2035.4 | 5182.5 | 6622.4 | 5942.1 | 2522.4 | 1148.7 |
| 80° | 471.1 | 497.6 | 566.4 | 894.6 | 1614.6 | 1942.8 | 3223.8 | 3954.4 | 2601.8 | 862.9 | 553.2 |
| 82.5° | 277.9 | 304.4 | 373.2 | 579.7 | 1267.8 | 1802.5 | 2271.0 | 2474.8 | 1220.2 | 442.0 | 333.5 |
| 85° | 153.5 | 172.0 | 225.0 | 349.4 | 743.8 | 1601.3 | 1818.4 | 1776.0 | 698.8 | 235.6 | 209.1 |
| 87.5° | 50.3 | 58.2 | 82.1 | 140.3 | 307.0 | 754.3 | 1090.5 | 1024.3 | 362.6 | 108.5 | 82.1 |
| 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° | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 |
| 2.5° | 6463.5 | 6455.6 | 6336.5 | 6246.5 | 6093.0 | 5965.9 | 5915.7 | 5846.8 | 5844.2 | 5793.9 | 5780.7 |
| 5° | 6307.4 | 6225.3 | 6042.7 | 5868.0 | 5595.4 | 5412.8 | 5246.0 | 5129.5 | 5081.9 | 4978.7 | 4954.9 |
| 7.5° | 6106.2 | 5997.7 | 5717.1 | 5388.9 | 5068.7 | 4782.8 | 4523.4 | 4264.0 | 4118.5 | 4068.2 | 4012.6 |
| 10° | 5897.1 | 5706.6 | 5291.0 | 4923.1 | 4475.8 | 4036.4 | 3628.8 | 3263.5 | 3065.0 | 2924.7 | 2863.9 |
| 12.5° | 5730.4 | 5476.3 | 4946.9 | 4396.4 | 3806.1 | 3218.5 | 2744.8 | 2361.0 | 2136.0 | 2030.1 | 1982.5 |
| 15° | 5542.5 | 5206.3 | 4571.1 | 3875.0 | 3139.1 | 2472.1 | 2008.9 | 1707.2 | 1617.2 | 1566.9 | 1559.0 |
| 17.5° | 5343.9 | 4954.9 | 4163.5 | 3361.5 | 2488.0 | 1860.7 | 1561.6 | 1439.9 | 1400.2 | 1379.0 | 1368.4 |
| 20° | 5158.7 | 4729.9 | 3745.3 | 2789.8 | 1948.1 | 1492.8 | 1352.5 | 1289.0 | 1286.4 | 1296.9 | 1294.3 |
| 22.5° | 4896.6 | 4436.1 | 3332.4 | 2260.4 | 1556.3 | 1299.6 | 1209.6 | 1193.7 | 1209.6 | 1222.8 | 1228.1 |
| 25° | 4748.4 | 4195.2 | 2871.8 | 1794.5 | 1286.4 | 1154.0 | 1124.9 | 1119.6 | 1143.4 | 1159.3 | 1156.7 |
| 27.5° | 4594.9 | 3946.4 | 2443.0 | 1437.2 | 1127.5 | 1050.8 | 1045.5 | 1050.8 | 1074.6 | 1098.4 | 1095.8 |
| 30° | 4475.8 | 3747.9 | 2040.7 | 1201.7 | 1005.8 | 976.7 | 971.4 | 976.7 | 989.9 | 992.6 | 992.6 |
| 32.5° | 4377.8 | 3512.3 | 1699.3 | 1042.8 | 931.7 | 907.9 | 913.2 | 910.5 | 913.2 | 915.8 | 918.4 |
| 35° | 4319.6 | 3372.1 | 1418.7 | 944.9 | 870.8 | 852.3 | 849.6 | 841.7 | 844.3 | 847.0 | 844.3 |
| 37.5° | 4444.0 | 3303.2 | 1196.4 | 876.1 | 828.5 | 812.6 | 807.3 | 802.0 | 794.0 | 794.0 | 794.0 |
| 40° | 4631.9 | 3266.2 | 1061.4 | 831.1 | 796.7 | 778.2 | 762.3 | 757.0 | 757.0 | 759.6 | 762.3 |
| 42.5° | 5005.1 | 3327.1 | 968.7 | 796.7 | 757.0 | 735.8 | 719.9 | 722.6 | 730.5 | 738.5 | 733.2 |
| 45° | 5545.1 | 3512.3 | 926.4 | 770.2 | 733.2 | 704.1 | 693.5 | 690.8 | 698.8 | 712.0 | 722.6 |
| 47.5° | 6251.8 | 3800.8 | 910.5 | 746.4 | 717.3 | 677.6 | 664.4 | 672.3 | 682.9 | 701.4 | 693.5 |
| 50° | 7408.5 | 4449.3 | 923.7 | 725.2 | 693.5 | 664.4 | 648.5 | 640.5 | 648.5 | 661.7 | 667.0 |
| 52.5° | 8919.8 | 5627.2 | 974.0 | 714.6 | 677.6 | 653.8 | 627.3 | 614.1 | 622.0 | 632.6 | 632.6 |
| 55° | 10727.6 | 7236.4 | 1114.3 | 701.4 | 651.1 | 637.9 | 608.8 | 582.3 | 587.6 | 587.6 | 584.9 |
| 57.5° | 12321.0 | 8451.3 | 1281.1 | 682.9 | 635.2 | 616.7 | 579.7 | 547.9 | 542.6 | 545.2 | 547.9 |
| 60° | 13035.6 | 8774.2 | 1360.5 | 677.6 | 635.2 | 590.2 | 540.0 | 508.2 | 500.3 | 495.0 | 495.0 |
| 62.5° | 12911.2 | 8215.7 | 1199.0 | 653.8 | 651.1 | 569.1 | 502.9 | 468.5 | 457.9 | 447.3 | 450.0 |
| 65° | 12159.5 | 7419.1 | 944.9 | 622.0 | 653.8 | 555.8 | 465.8 | 431.4 | 412.9 | 399.7 | 397.0 |
| 67.5° | 10785.8 | 6333.9 | 749.1 | 598.2 | 627.3 | 532.0 | 434.1 | 394.4 | 378.5 | 365.3 | 360.0 |
| 70° | 8438.1 | 4965.4 | 651.1 | 566.4 | 563.8 | 473.8 | 397.0 | 362.6 | 338.8 | 322.9 | 322.9 |
| 72.5° | 5471.0 | 3139.1 | 558.5 | 502.9 | 487.0 | 397.0 | 344.1 | 322.9 | 304.4 | 291.2 | 291.2 |
| 75° | 2477.4 | 1458.4 | 450.0 | 420.8 | 397.0 | 317.6 | 291.2 | 280.6 | 264.7 | 251.4 | 251.4 |
| 77.5° | 889.3 | 622.0 | 336.1 | 330.9 | 296.4 | 246.2 | 235.6 | 227.6 | 217.0 | 203.8 | 203.8 |
| 80° | 497.6 | 394.4 | 251.4 | 240.9 | 206.5 | 182.6 | 169.4 | 169.4 | 164.1 | 156.2 | 153.5 |
| 82.5° | 315.0 | 256.7 | 185.3 | 161.5 | 135.0 | 121.8 | 116.5 | 113.8 | 111.2 | 100.6 | 97.9 |
| 85° | 198.5 | 174.7 | 121.8 | 95.3 | 79.4 | 60.9 | 58.2 | 55.6 | 50.3 | 45.0 | 45.0 |
| 87.5° | 90.0 | 100.6 | 47.6 | 29.1 | 21.2 | 13.2 | 7.9 | 2.6 | 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)