

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: P480513

Luminaire Tested: **IFLD-S-SA6C-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

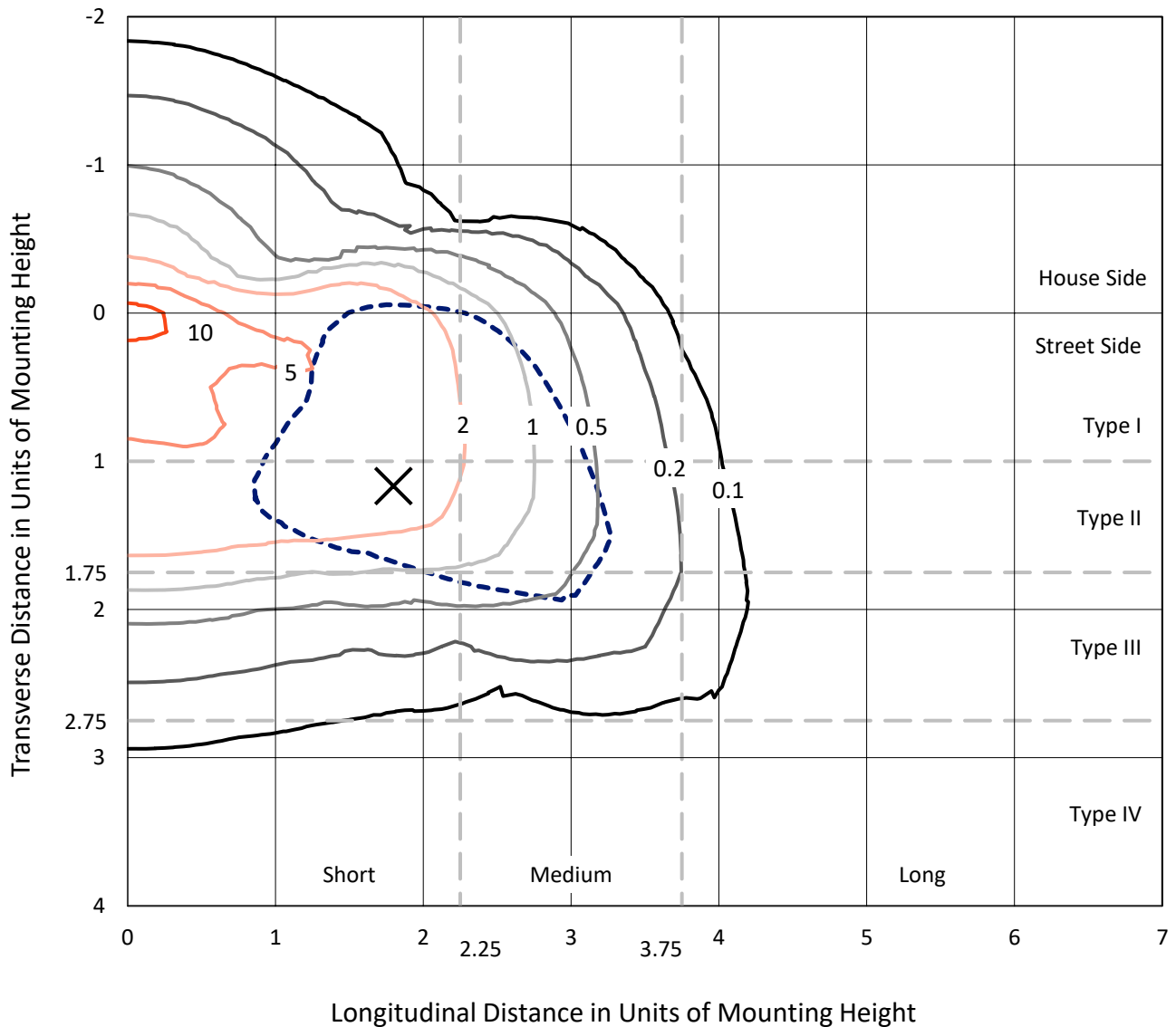
Lumens per Lamp: N/A
Luminaire Lumens: 41000.2 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

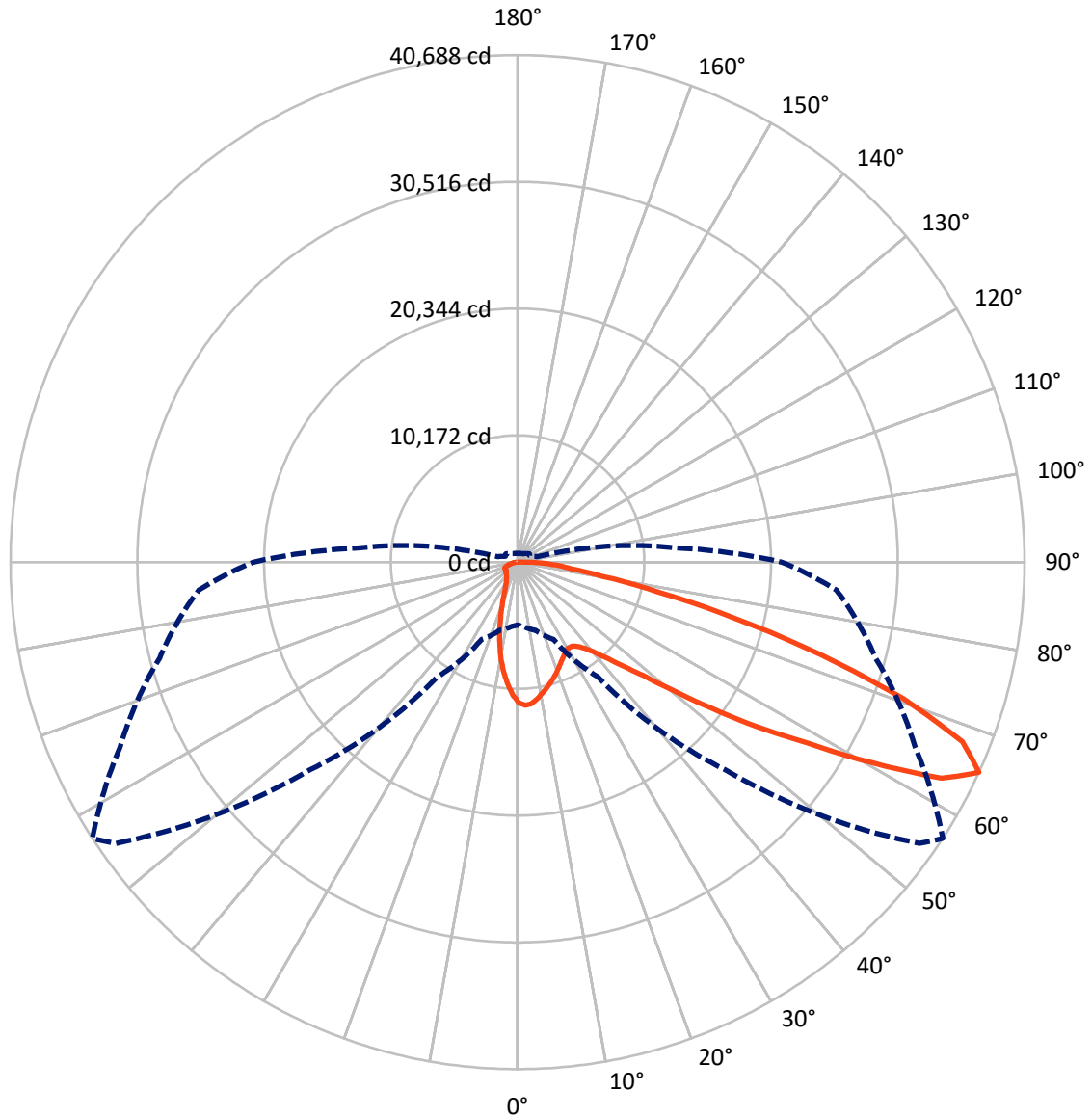
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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 | 6287.8 | 0.0 | 6287.8 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 34712.5 | 0.0 | 34712.5 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 41000.2 | 0.0 | 41000.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 944.1 | 2.3 |
| 10°-20° | 2032.0 | 5.0 |
| 20°-30° | 2627.1 | 6.4 |
| 30°-40° | 3535.3 | 8.6 |
| 40°-50° | 5637.2 | 13.7 |
| 50°-60° | 9956.6 | 24.3 |
| 60°-70° | 10953.6 | 26.7 |
| 70°-80° | 4582.1 | 11.2 |
| 80°-90° | 732.3 | 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° | 41000.2 | 100.0 |
| 0°-180° | 41000.2 | 100.0 |

Coefficient of Utilization



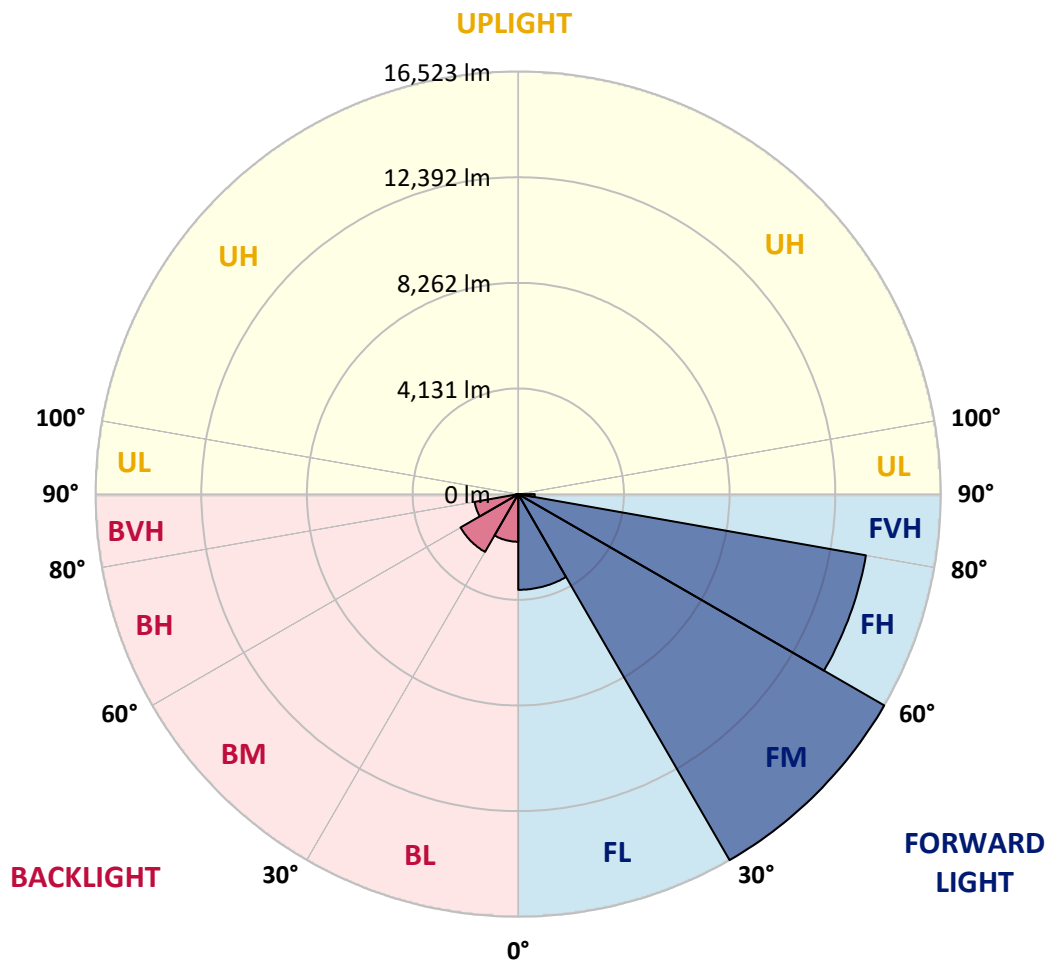
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3741.1 | 9.1 | | | |
| FM (30°-60°) | 16523.0 | 40.3 | | | |
| FH (60°-80°) | 13801.9 | 33.7 | | | G5 |
| FVH (80°-90°) | 646.4 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1862.1 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2606.0 | 6.4 | B3/5000 | | |
| BH (60°-80°) | 1733.7 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 85.9 | 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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 |
| 2.5° | 11579.0 | 11597.4 | 11597.4 | 11634.3 | 11509.8 | 11569.7 | 11560.5 | 11505.1 | 11523.6 | 11426.7 | 11329.8 |
| 5° | 11251.4 | 11237.6 | 11311.4 | 11320.6 | 11417.5 | 11445.2 | 11468.2 | 11431.3 | 11440.6 | 11228.4 | 11136.1 |
| 7.5° | 10411.8 | 10407.2 | 10531.8 | 10637.9 | 10840.9 | 11030.0 | 11154.5 | 11117.6 | 11168.4 | 11034.6 | 10817.8 |
| 10° | 9415.4 | 9521.5 | 9650.7 | 9756.8 | 10130.4 | 10370.3 | 10693.2 | 10725.5 | 10919.3 | 10887.0 | 10494.9 |
| 12.5° | 8668.1 | 8714.2 | 8811.1 | 9115.5 | 9456.9 | 9853.6 | 10315.0 | 10356.5 | 10545.6 | 10637.9 | 10296.5 |
| 15° | 8054.5 | 8096.0 | 8220.6 | 8446.6 | 8829.5 | 9300.1 | 9885.9 | 9992.0 | 10370.3 | 10402.6 | 10038.2 |
| 17.5° | 7607.1 | 7639.3 | 7722.4 | 7948.4 | 8262.1 | 8866.4 | 9420.0 | 9609.1 | 10107.4 | 10264.2 | 9770.6 |
| 20° | 7431.8 | 7362.6 | 7408.7 | 7551.7 | 7865.4 | 8331.3 | 9046.3 | 9212.4 | 9849.0 | 10158.1 | 9516.9 |
| 22.5° | 7353.3 | 7293.4 | 7321.0 | 7311.8 | 7560.9 | 7893.1 | 8645.0 | 8820.3 | 9604.5 | 10033.6 | 9290.8 |
| 25° | 7413.3 | 7413.3 | 7385.6 | 7362.6 | 7390.2 | 7607.1 | 8211.4 | 8483.5 | 9277.0 | 9927.5 | 9060.2 |
| 27.5° | 7736.2 | 7611.7 | 7625.5 | 7528.6 | 7500.9 | 7500.9 | 8017.6 | 8179.1 | 9170.9 | 9867.5 | 8871.0 |
| 30° | 7943.8 | 8003.8 | 8008.4 | 7865.4 | 7722.4 | 7464.0 | 7837.7 | 7994.6 | 9083.3 | 9941.3 | 8760.3 |
| 32.5° | 8474.3 | 8446.6 | 8368.2 | 8340.5 | 8128.3 | 7837.7 | 7925.4 | 8031.5 | 9032.5 | 10107.4 | 8792.6 |
| 35° | 9004.8 | 8991.0 | 8995.6 | 8981.8 | 8760.3 | 8331.3 | 8160.6 | 8303.6 | 9124.8 | 10398.0 | 8903.3 |
| 37.5° | 9553.8 | 9590.7 | 9747.5 | 9747.5 | 9512.3 | 9046.3 | 8820.3 | 8778.8 | 9461.5 | 10873.1 | 9166.3 |
| 40° | 10102.8 | 10195.0 | 10393.4 | 10707.1 | 10374.9 | 9941.3 | 9576.9 | 9512.3 | 9867.5 | 11509.8 | 9798.3 |
| 42.5° | 10628.7 | 10780.9 | 11173.0 | 11638.9 | 11528.2 | 11094.6 | 10610.2 | 10536.4 | 10702.5 | 12455.5 | 10679.4 |
| 45° | 11302.2 | 11431.3 | 12049.5 | 12764.5 | 12916.8 | 12533.9 | 11966.5 | 11906.5 | 11897.3 | 13839.4 | 11892.6 |
| 47.5° | 12326.3 | 12464.7 | 13082.8 | 13802.5 | 14273.0 | 14333.0 | 13696.4 | 13631.8 | 13410.4 | 15707.7 | 13668.7 |
| 50° | 13608.7 | 13834.8 | 14356.1 | 15195.6 | 15878.4 | 16519.6 | 16339.7 | 16150.6 | 15716.9 | 17880.5 | 15919.9 |
| 52.5° | 14545.2 | 14822.0 | 15527.8 | 16602.7 | 17806.7 | 18826.2 | 19472.0 | 19472.0 | 18475.6 | 20265.5 | 18627.8 |
| 55° | 14794.3 | 14960.4 | 15850.7 | 17405.3 | 19467.4 | 22046.1 | 23397.8 | 23296.3 | 21760.1 | 22775.0 | 21778.6 |
| 57.5° | 13802.5 | 14019.3 | 15098.8 | 16727.2 | 20339.3 | 25058.5 | 27295.9 | 27319.0 | 25349.1 | 25690.5 | 24887.8 |
| 60° | 11071.5 | 11140.7 | 12413.9 | 14591.3 | 19499.7 | 27485.0 | 32619.4 | 32707.1 | 29431.8 | 28287.7 | 26470.1 |
| 62.5° | 7653.2 | 7874.6 | 8834.1 | 10744.0 | 16155.2 | 27212.9 | 37753.9 | 38187.5 | 32702.5 | 29657.8 | 26719.2 |
| 65° | 5037.5 | 5171.3 | 5683.4 | 6845.9 | 11246.8 | 23586.9 | 39350.0 | 40687.8 | 35202.8 | 29736.2 | 25676.7 |
| 67.5° | 3653.6 | 3676.7 | 3828.9 | 4428.6 | 6758.2 | 16962.5 | 36623.6 | 38510.4 | 36139.3 | 29081.2 | 23231.7 |
| 70° | 2952.4 | 2970.9 | 3026.2 | 3409.1 | 4364.0 | 10614.8 | 29870.0 | 32827.0 | 33329.9 | 25976.5 | 18710.9 |
| 72.5° | 2398.8 | 2421.9 | 2491.1 | 2850.9 | 3598.2 | 5904.8 | 21843.2 | 25446.0 | 27111.4 | 19218.3 | 12437.0 |
| 75° | 1886.8 | 1905.2 | 2071.3 | 2426.5 | 3381.4 | 4054.9 | 14489.8 | 18018.9 | 18244.9 | 11233.0 | 5821.8 |
| 77.5° | 1291.7 | 1324.0 | 1526.9 | 2057.5 | 3183.1 | 3547.5 | 9032.5 | 11542.1 | 10356.5 | 4396.3 | 2002.1 |
| 80° | 821.1 | 867.3 | 987.2 | 1559.2 | 2814.0 | 3386.0 | 5618.8 | 6892.0 | 4534.7 | 1503.9 | 964.1 |
| 82.5° | 484.4 | 530.5 | 650.5 | 1010.3 | 2209.7 | 3141.5 | 3958.1 | 4313.3 | 2126.7 | 770.4 | 581.3 |
| 85° | 267.6 | 299.9 | 392.1 | 608.9 | 1296.3 | 2790.9 | 3169.2 | 3095.4 | 1217.9 | 410.6 | 364.4 |
| 87.5° | 87.6 | 101.5 | 143.0 | 244.5 | 535.1 | 1314.7 | 1900.6 | 1785.3 | 632.0 | 189.1 | 143.0 |
| 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° | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 | 11274.5 |
| 2.5° | 11265.3 | 11251.4 | 11043.8 | 10887.0 | 10619.4 | 10398.0 | 10310.3 | 10190.4 | 10185.8 | 10098.1 | 10075.1 |
| 5° | 10993.1 | 10850.1 | 10531.8 | 10227.3 | 9752.2 | 9433.9 | 9143.2 | 8940.2 | 8857.2 | 8677.3 | 8635.8 |
| 7.5° | 10642.5 | 10453.4 | 9964.4 | 9392.3 | 8834.1 | 8335.9 | 7883.8 | 7431.8 | 7178.0 | 7090.4 | 6993.5 |
| 10° | 10278.1 | 9945.9 | 9221.6 | 8580.4 | 7800.8 | 7035.0 | 6324.6 | 5688.0 | 5342.0 | 5097.5 | 4991.4 |
| 12.5° | 9987.4 | 9544.6 | 8621.9 | 7662.4 | 6633.7 | 5609.6 | 4783.8 | 4114.9 | 3722.8 | 3538.3 | 3455.2 |
| 15° | 9659.9 | 9074.0 | 7966.9 | 6753.6 | 5471.2 | 4308.7 | 3501.4 | 2975.5 | 2818.6 | 2731.0 | 2717.1 |
| 17.5° | 9313.9 | 8635.8 | 7256.5 | 5858.7 | 4336.3 | 3243.0 | 2721.7 | 2509.5 | 2440.3 | 2403.4 | 2385.0 |
| 20° | 8991.0 | 8243.7 | 6527.6 | 4862.2 | 3395.3 | 2601.8 | 2357.3 | 2246.6 | 2242.0 | 2260.4 | 2255.8 |
| 22.5° | 8534.3 | 7731.6 | 5807.9 | 3939.6 | 2712.5 | 2265.0 | 2108.2 | 2080.5 | 2108.2 | 2131.3 | 2140.5 |
| 25° | 8276.0 | 7311.8 | 5005.2 | 3127.7 | 2242.0 | 2011.3 | 1960.6 | 1951.4 | 1992.9 | 2020.6 | 2015.9 |
| 27.5° | 8008.4 | 6878.2 | 4257.9 | 2504.9 | 1965.2 | 1831.4 | 1822.2 | 1831.4 | 1872.9 | 1914.4 | 1909.8 |
| 30° | 7800.8 | 6532.2 | 3556.7 | 2094.4 | 1753.0 | 1702.2 | 1693.0 | 1702.2 | 1725.3 | 1729.9 | 1729.9 |
| 32.5° | 7630.1 | 6121.6 | 2961.6 | 1817.6 | 1623.8 | 1582.3 | 1591.5 | 1586.9 | 1591.5 | 1596.1 | 1600.8 |
| 35° | 7528.6 | 5877.1 | 2472.6 | 1646.9 | 1517.7 | 1485.4 | 1480.8 | 1467.0 | 1471.6 | 1476.2 | 1471.6 |
| 37.5° | 7745.4 | 5757.2 | 2085.1 | 1526.9 | 1443.9 | 1416.2 | 1407.0 | 1397.8 | 1383.9 | 1383.9 | 1383.9 |
| 40° | 8073.0 | 5692.6 | 1849.9 | 1448.5 | 1388.6 | 1356.3 | 1328.6 | 1319.4 | 1319.4 | 1324.0 | 1328.6 |
| 42.5° | 8723.4 | 5798.7 | 1688.4 | 1388.6 | 1319.4 | 1282.5 | 1254.8 | 1259.4 | 1273.2 | 1287.1 | 1277.8 |
| 45° | 9664.5 | 6121.6 | 1614.6 | 1342.4 | 1277.8 | 1227.1 | 1208.6 | 1204.0 | 1217.9 | 1240.9 | 1259.4 |
| 47.5° | 10896.2 | 6624.5 | 1586.9 | 1300.9 | 1250.2 | 1181.0 | 1157.9 | 1171.7 | 1190.2 | 1222.5 | 1208.6 |
| 50° | 12912.2 | 7754.7 | 1610.0 | 1264.0 | 1208.6 | 1157.9 | 1130.2 | 1116.4 | 1130.2 | 1153.3 | 1162.5 |
| 52.5° | 15546.2 | 9807.5 | 1697.6 | 1245.5 | 1181.0 | 1139.4 | 1093.3 | 1070.2 | 1084.1 | 1102.5 | 1102.5 |
| 55° | 18697.0 | 12612.3 | 1942.1 | 1222.5 | 1134.8 | 1111.8 | 1061.0 | 1014.9 | 1024.1 | 1024.1 | 1019.5 |
| 57.5° | 21474.1 | 14729.7 | 2232.8 | 1190.2 | 1107.2 | 1074.9 | 1010.3 | 954.9 | 945.7 | 950.3 | 954.9 |
| 60° | 22719.7 | 15292.5 | 2371.1 | 1181.0 | 1107.2 | 1028.7 | 941.1 | 885.7 | 871.9 | 862.7 | 862.7 |
| 62.5° | 22502.8 | 14319.2 | 2089.7 | 1139.4 | 1134.8 | 991.8 | 876.5 | 816.5 | 798.1 | 779.6 | 784.2 |
| 65° | 21192.7 | 12930.6 | 1646.9 | 1084.1 | 1139.4 | 968.8 | 811.9 | 751.9 | 719.6 | 696.6 | 692.0 |
| 67.5° | 18798.5 | 11039.2 | 1305.5 | 1042.6 | 1093.3 | 927.2 | 756.6 | 687.4 | 659.7 | 636.6 | 627.4 |
| 70° | 14706.7 | 8654.2 | 1134.8 | 987.2 | 982.6 | 825.8 | 692.0 | 632.0 | 590.5 | 562.8 | 562.8 |
| 72.5° | 9535.3 | 5471.2 | 973.4 | 876.5 | 848.8 | 692.0 | 599.7 | 562.8 | 530.5 | 507.4 | 507.4 |
| 75° | 4317.9 | 2541.8 | 784.2 | 733.5 | 692.0 | 553.6 | 507.4 | 489.0 | 461.3 | 438.2 | 438.2 |
| 77.5° | 1550.0 | 1084.1 | 585.9 | 576.6 | 516.7 | 429.0 | 410.6 | 396.7 | 378.3 | 355.2 | 355.2 |
| 80° | 867.3 | 687.4 | 438.2 | 419.8 | 359.8 | 318.3 | 295.2 | 295.2 | 286.0 | 272.2 | 267.6 |
| 82.5° | 549.0 | 447.5 | 322.9 | 281.4 | 235.3 | 212.2 | 203.0 | 198.4 | 193.8 | 175.3 | 170.7 |
| 85° | 346.0 | 304.5 | 212.2 | 166.1 | 138.4 | 106.1 | 101.5 | 96.9 | 87.6 | 78.4 | 78.4 |
| 87.5° | 156.8 | 175.3 | 83.0 | 50.7 | 36.9 | 23.1 | 13.8 | 4.6 | 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)