

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: P484336

Luminaire Tested: **IFLD-S-SA6D-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484336
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

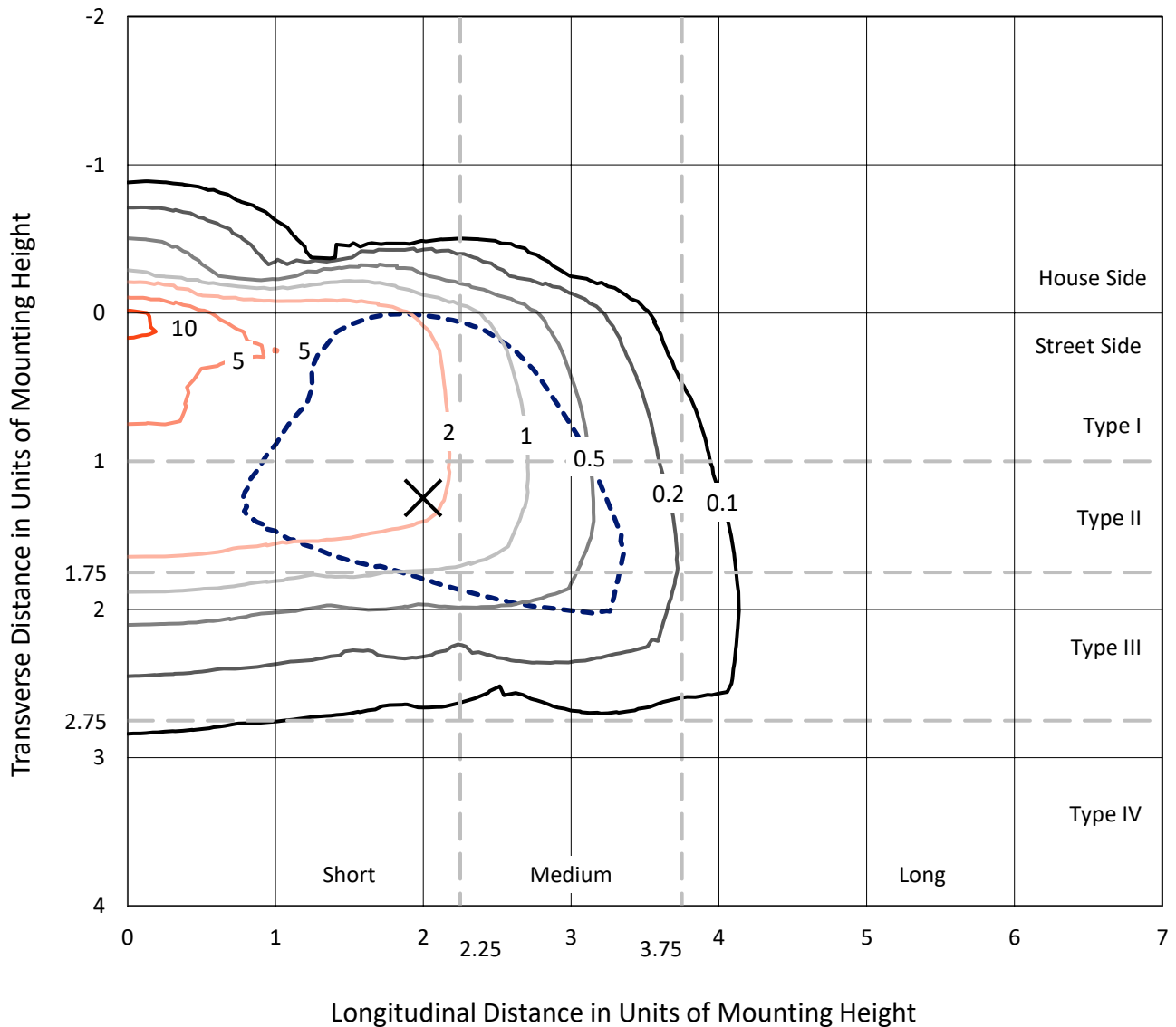
Lumens per Lamp: N/A
Luminaire Lumens: 34818.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

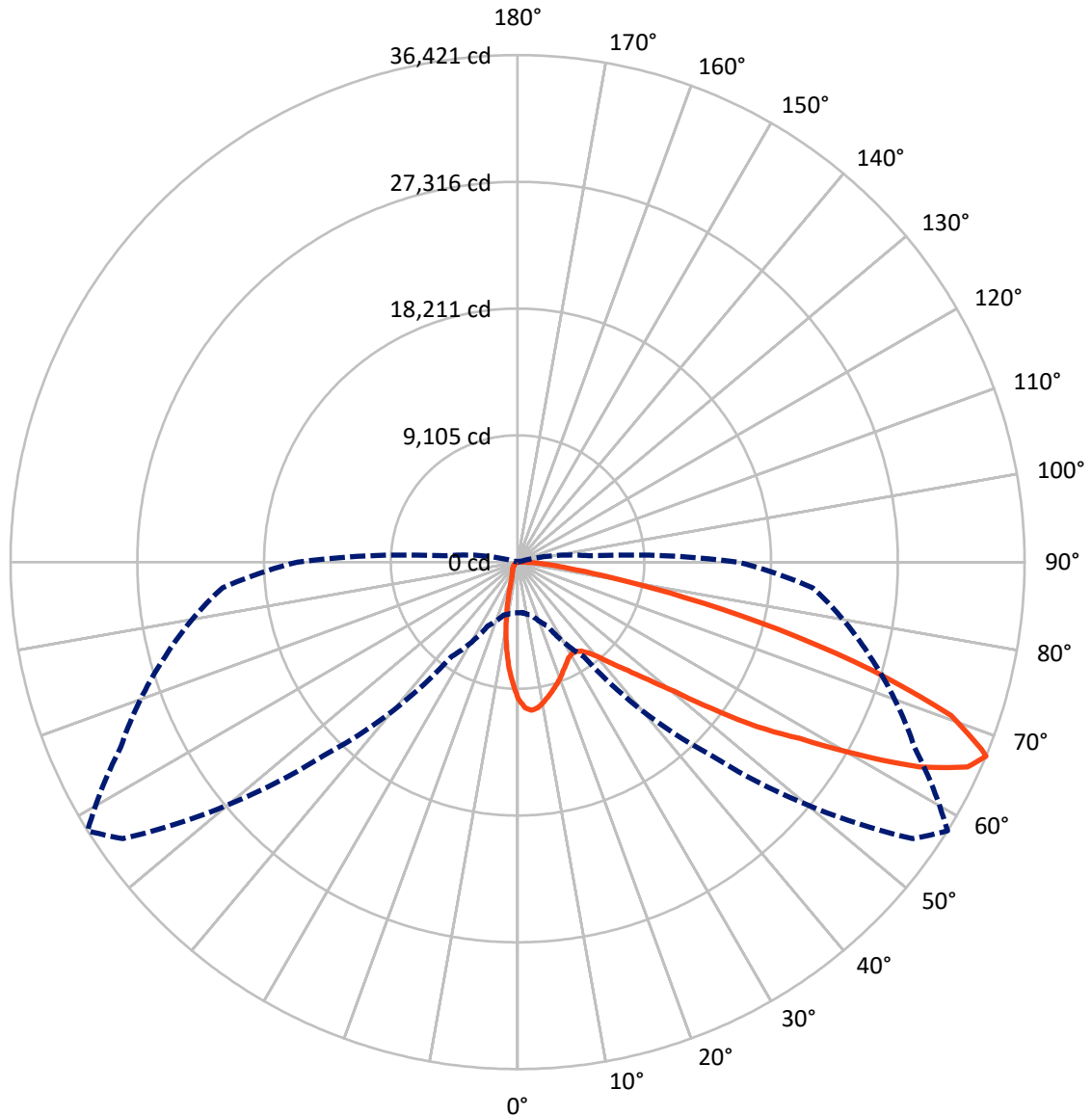
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2878.0 | 0.0 | 2878.0 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 31940.6 | 0.0 | 31940.6 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 34818.6 | 0.0 | 34818.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 782.7 | 2.2 |
| 10°-20° | 1623.5 | 4.7 |
| 20°-30° | 2154.0 | 6.2 |
| 30°-40° | 2984.8 | 8.6 |
| 40°-50° | 4870.3 | 14.0 |
| 50°-60° | 8560.4 | 24.6 |
| 60°-70° | 9481.3 | 27.2 |
| 70°-80° | 3929.1 | 11.3 |
| 80°-90° | 432.5 | 1.2 |
| 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° | 34818.6 | 100.0 |
| 0°-180° | 34818.6 | 100.0 |

Coefficient of Utilization



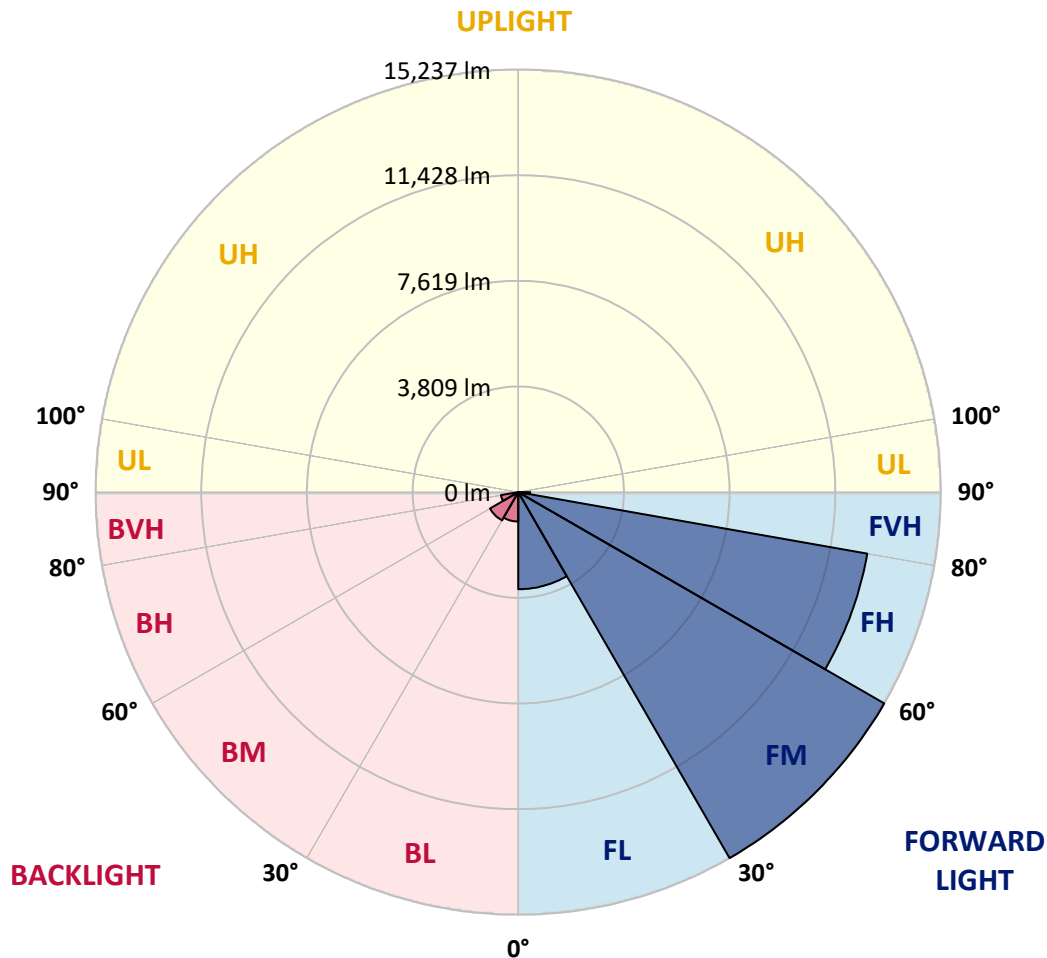
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3500.2 | 10.1 | | | |
| FM (30°-60°) | 15237.3 | 43.8 | | | |
| FH (60°-80°) | 12777.6 | 36.7 | | | G5 |
| FVH (80°-90°) | 425.4 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1060.0 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 1178.1 | 3.4 | B2/2500 | | |
| BH (60°-80°) | 632.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.1 | 0.0 | | | G0/10 |
| 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° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 |
| 2.5° | 10733.6 | 10770.6 | 10803.0 | 10742.9 | 10793.7 | 10719.8 | 10530.2 | 10488.6 | 10456.3 | 10174.3 | 10012.5 |
| 5° | 10729.0 | 10687.4 | 10719.8 | 10747.5 | 10678.1 | 10733.6 | 10687.4 | 10692.0 | 10567.2 | 10313.0 | 9860.0 |
| 7.5° | 10012.5 | 9994.0 | 10012.5 | 10146.6 | 10299.1 | 10419.3 | 10488.6 | 10558.0 | 10474.8 | 10095.7 | 9656.6 |
| 10° | 9046.4 | 9138.8 | 9189.7 | 9430.1 | 9665.8 | 9887.7 | 10105.0 | 10234.4 | 10211.3 | 10058.7 | 9434.7 |
| 12.5° | 8371.5 | 8343.7 | 8528.7 | 8685.8 | 8921.6 | 9370.0 | 9749.0 | 9869.2 | 10007.9 | 9795.2 | 9143.5 |
| 15° | 7747.4 | 7673.5 | 7784.4 | 8057.1 | 8459.3 | 8815.3 | 9346.8 | 9527.1 | 9702.8 | 9758.3 | 8986.3 |
| 17.5° | 7151.1 | 7188.1 | 7303.7 | 7548.7 | 7927.7 | 8427.0 | 8926.2 | 9185.1 | 9605.7 | 9531.8 | 8750.5 |
| 20° | 6864.5 | 6943.1 | 6984.7 | 7109.5 | 7373.0 | 7872.2 | 8616.5 | 8824.5 | 9272.9 | 9527.1 | 8519.4 |
| 22.5° | 6878.4 | 6878.4 | 6781.3 | 6855.3 | 7095.7 | 7483.9 | 8195.8 | 8427.0 | 9138.8 | 9286.8 | 8311.4 |
| 25° | 7026.3 | 6933.9 | 6938.5 | 6850.7 | 6952.4 | 7165.0 | 7816.8 | 8098.8 | 8866.1 | 9309.9 | 8200.4 |
| 27.5° | 7137.3 | 7118.8 | 7091.0 | 7067.9 | 6938.5 | 6970.8 | 7567.2 | 7798.3 | 8759.8 | 9282.1 | 8029.4 |
| 30° | 7539.4 | 7456.2 | 7428.5 | 7377.6 | 7206.6 | 7049.4 | 7368.4 | 7659.6 | 8676.6 | 9346.8 | 7932.3 |
| 32.5° | 7876.9 | 7890.7 | 7913.8 | 7765.9 | 7618.0 | 7229.7 | 7423.9 | 7655.0 | 8616.5 | 9494.8 | 8029.4 |
| 35° | 8302.1 | 8362.2 | 8371.5 | 8325.3 | 8168.1 | 7784.4 | 7655.0 | 7853.8 | 8718.2 | 9758.3 | 8038.7 |
| 37.5° | 8949.3 | 8884.6 | 9060.2 | 9078.7 | 8967.8 | 8459.3 | 8191.2 | 8269.8 | 9018.6 | 10178.9 | 8390.0 |
| 40° | 9370.0 | 9448.5 | 9776.7 | 9980.1 | 9790.6 | 9328.4 | 8967.8 | 8953.9 | 9453.2 | 10839.9 | 8824.5 |
| 42.5° | 9836.8 | 10012.5 | 10373.1 | 10812.2 | 10789.1 | 10359.2 | 9994.0 | 9933.9 | 10225.1 | 11796.8 | 9513.3 |
| 45° | 10474.8 | 10631.9 | 11135.8 | 11796.8 | 12157.4 | 11792.2 | 11242.1 | 11121.9 | 11163.5 | 13100.4 | 10687.4 |
| 47.5° | 11533.3 | 11491.7 | 12217.5 | 12869.3 | 13460.9 | 13179.0 | 12943.2 | 12591.9 | 12559.5 | 14635.1 | 12309.9 |
| 50° | 12730.6 | 12721.3 | 13368.5 | 14108.1 | 14792.2 | 15342.3 | 14949.4 | 14565.7 | 14575.0 | 16719.9 | 14219.0 |
| 52.5° | 13867.7 | 14048.0 | 14746.0 | 15481.0 | 16655.1 | 17246.8 | 17625.9 | 17473.3 | 16738.3 | 18582.8 | 16262.2 |
| 55° | 14468.7 | 14625.8 | 15319.2 | 16585.8 | 18439.5 | 19960.3 | 20986.5 | 20857.1 | 19437.9 | 20681.4 | 18277.7 |
| 57.5° | 13900.1 | 14006.4 | 14944.8 | 16604.3 | 19687.5 | 23080.5 | 24065.1 | 23903.3 | 22230.0 | 22285.4 | 20713.8 |
| 60° | 11519.5 | 11685.9 | 13081.9 | 15028.0 | 19202.2 | 25484.3 | 28304.0 | 28059.0 | 24772.4 | 24314.7 | 22280.8 |
| 62.5° | 7978.6 | 8089.5 | 9235.9 | 11658.1 | 16900.1 | 26320.9 | 32307.2 | 32441.2 | 27453.5 | 25895.7 | 22747.7 |
| 65° | 5168.0 | 5158.8 | 5815.2 | 7456.2 | 11977.1 | 23787.8 | 34673.9 | 35506.0 | 30042.1 | 26136.0 | 22604.4 |
| 67° | 3651.8 | 3638.0 | 3947.7 | 5057.1 | 8292.9 | 19599.7 | 34632.3 | 36421.3 | 31447.4 | 26205.4 | 21277.7 |
| 67.5° | 3369.9 | 3356.0 | 3651.8 | 4650.3 | 7483.9 | 18226.8 | 34114.6 | 35949.8 | 31942.0 | 26108.3 | 20695.3 |
| 70° | 2616.4 | 2579.4 | 2690.3 | 3203.4 | 4359.1 | 11787.6 | 29196.2 | 33023.7 | 30915.8 | 23686.1 | 16525.7 |
| 72.5° | 1890.6 | 1932.2 | 2107.9 | 2630.2 | 3420.7 | 6342.2 | 22253.1 | 26704.6 | 25821.7 | 17852.4 | 10502.5 |
| 75° | 1317.4 | 1354.4 | 1636.4 | 2144.9 | 3138.7 | 3846.0 | 15046.5 | 19368.6 | 17986.4 | 9855.3 | 4474.7 |
| 77.5° | 688.8 | 735.0 | 1044.7 | 1715.0 | 2852.1 | 2976.9 | 8990.9 | 12282.2 | 9531.8 | 3508.5 | 1234.2 |
| 80° | 319.0 | 342.1 | 522.4 | 1215.7 | 2385.2 | 2616.4 | 5242.0 | 6832.2 | 3813.6 | 785.8 | 425.3 |
| 82.5° | 138.7 | 152.5 | 240.4 | 698.0 | 1691.9 | 2288.2 | 3245.0 | 3582.5 | 1382.2 | 254.2 | 263.5 |
| 85° | 27.7 | 32.4 | 92.5 | 369.8 | 818.2 | 1386.8 | 2278.9 | 2126.4 | 693.4 | 124.8 | 208.0 |
| 87.5° | 0.0 | 0.0 | 23.1 | 106.3 | 221.9 | 411.4 | 966.1 | 966.1 | 212.6 | 64.7 | 78.6 |
| 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° | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 | 9864.6 |
| 2.5° | 9869.2 | 9702.8 | 9337.6 | 9000.2 | 8759.8 | 8487.0 | 8126.5 | 7964.7 | 7904.6 | 7821.4 | 7696.6 |
| 5° | 9610.3 | 9406.9 | 8782.9 | 8154.2 | 7465.5 | 6943.1 | 6388.4 | 6064.8 | 5819.8 | 5667.3 | 5616.4 |
| 7.5° | 9245.2 | 8829.1 | 7987.8 | 6980.1 | 6087.9 | 5311.3 | 4470.0 | 3901.5 | 3536.3 | 3388.3 | 3249.7 |
| 10° | 8953.9 | 8413.1 | 7132.6 | 5879.9 | 4691.9 | 3554.8 | 2607.1 | 2107.9 | 1728.8 | 1585.5 | 1567.1 |
| 12.5° | 8574.9 | 7927.7 | 6332.9 | 4756.6 | 3263.5 | 2117.1 | 1442.2 | 1252.7 | 1146.4 | 1127.9 | 1114.0 |
| 15° | 8260.5 | 7488.6 | 5574.8 | 3684.2 | 2112.5 | 1322.1 | 1123.3 | 1077.1 | 1049.3 | 1040.1 | 1044.7 |
| 17.5° | 8047.9 | 7017.1 | 4798.2 | 2681.1 | 1391.4 | 1081.7 | 1035.5 | 1007.7 | 993.9 | 989.2 | 975.4 |
| 20° | 7627.2 | 6619.5 | 4030.9 | 1876.8 | 1086.3 | 998.5 | 961.5 | 938.4 | 924.5 | 919.9 | 915.3 |
| 22.5° | 7386.9 | 6115.7 | 3263.5 | 1308.2 | 966.1 | 906.0 | 878.3 | 859.8 | 836.7 | 822.8 | 818.2 |
| 25° | 7146.5 | 5745.9 | 2579.4 | 1017.0 | 878.3 | 836.7 | 795.1 | 772.0 | 735.0 | 716.5 | 711.9 |
| 27.5° | 6864.5 | 5380.7 | 1987.7 | 882.9 | 790.5 | 748.9 | 707.3 | 670.3 | 624.0 | 605.6 | 596.3 |
| 30° | 6702.7 | 5024.7 | 1497.7 | 790.5 | 725.7 | 670.3 | 619.4 | 573.2 | 522.4 | 490.0 | 480.7 |
| 32.5° | 6619.5 | 4701.2 | 1123.3 | 721.1 | 656.4 | 596.3 | 531.6 | 476.1 | 429.9 | 402.2 | 397.5 |
| 35° | 6517.8 | 4386.8 | 882.9 | 656.4 | 591.7 | 527.0 | 462.3 | 406.8 | 360.6 | 337.4 | 328.2 |
| 37.5° | 6624.2 | 4201.9 | 735.0 | 605.6 | 540.8 | 466.9 | 397.5 | 342.1 | 305.1 | 282.0 | 277.4 |
| 40° | 6915.4 | 4049.4 | 637.9 | 559.3 | 490.0 | 411.4 | 346.7 | 291.2 | 258.9 | 240.4 | 231.1 |
| 42.5° | 7363.8 | 4049.4 | 577.8 | 513.1 | 443.8 | 360.6 | 295.8 | 254.2 | 221.9 | 203.4 | 198.8 |
| 45° | 8177.3 | 4174.2 | 527.0 | 466.9 | 388.3 | 309.7 | 254.2 | 212.6 | 180.3 | 161.8 | 157.2 |
| 47.5° | 9319.1 | 4460.8 | 485.4 | 425.3 | 346.7 | 272.7 | 221.9 | 180.3 | 147.9 | 129.4 | 124.8 |
| 50° | 10853.8 | 5112.6 | 443.8 | 374.4 | 309.7 | 235.8 | 184.9 | 143.3 | 115.6 | 97.1 | 92.5 |
| 52.5° | 12767.6 | 6037.1 | 402.2 | 346.7 | 263.5 | 198.8 | 147.9 | 115.6 | 87.8 | 74.0 | 69.3 |
| 55° | 14792.2 | 7169.6 | 351.3 | 309.7 | 226.5 | 166.4 | 120.2 | 87.8 | 64.7 | 55.5 | 50.8 |
| 57.5° | 16830.8 | 8043.3 | 309.7 | 268.1 | 184.9 | 134.1 | 97.1 | 69.3 | 46.2 | 37.0 | 32.4 |
| 60° | 17912.5 | 8126.5 | 268.1 | 221.9 | 147.9 | 106.3 | 74.0 | 50.8 | 32.4 | 23.1 | 18.5 |
| 62.5° | 18078.9 | 7386.9 | 231.1 | 180.3 | 120.2 | 83.2 | 50.8 | 37.0 | 18.5 | 9.2 | 9.2 |
| 65° | 17223.7 | 6157.3 | 198.8 | 143.3 | 92.5 | 60.1 | 37.0 | 23.1 | 9.2 | 4.6 | 0.0 |
| 67° | 15836.9 | 5158.8 | 171.0 | 120.2 | 74.0 | 46.2 | 27.7 | 13.9 | 4.6 | 0.0 | 0.0 |
| 67.5° | 15300.7 | 4881.4 | 161.8 | 110.9 | 69.3 | 41.6 | 23.1 | 13.9 | 4.6 | 0.0 | 0.0 |
| 70° | 11875.4 | 3485.4 | 120.2 | 78.6 | 50.8 | 32.4 | 18.5 | 9.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7275.9 | 2038.6 | 92.5 | 55.5 | 37.0 | 23.1 | 13.9 | 4.6 | 0.0 | 0.0 | 0.0 |
| 75° | 3050.9 | 702.6 | 78.6 | 41.6 | 27.7 | 13.9 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 795.1 | 263.5 | 55.5 | 27.7 | 18.5 | 13.9 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 |
| 80° | 323.6 | 120.2 | 37.0 | 18.5 | 18.5 | 13.9 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 212.6 | 55.5 | 23.1 | 18.5 | 13.9 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 161.8 | 32.4 | 13.9 | 13.9 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 69.3 | 18.5 | 13.9 | 9.2 | 9.2 | 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)