

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: P236999

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7050-HSS**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2R-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23070 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

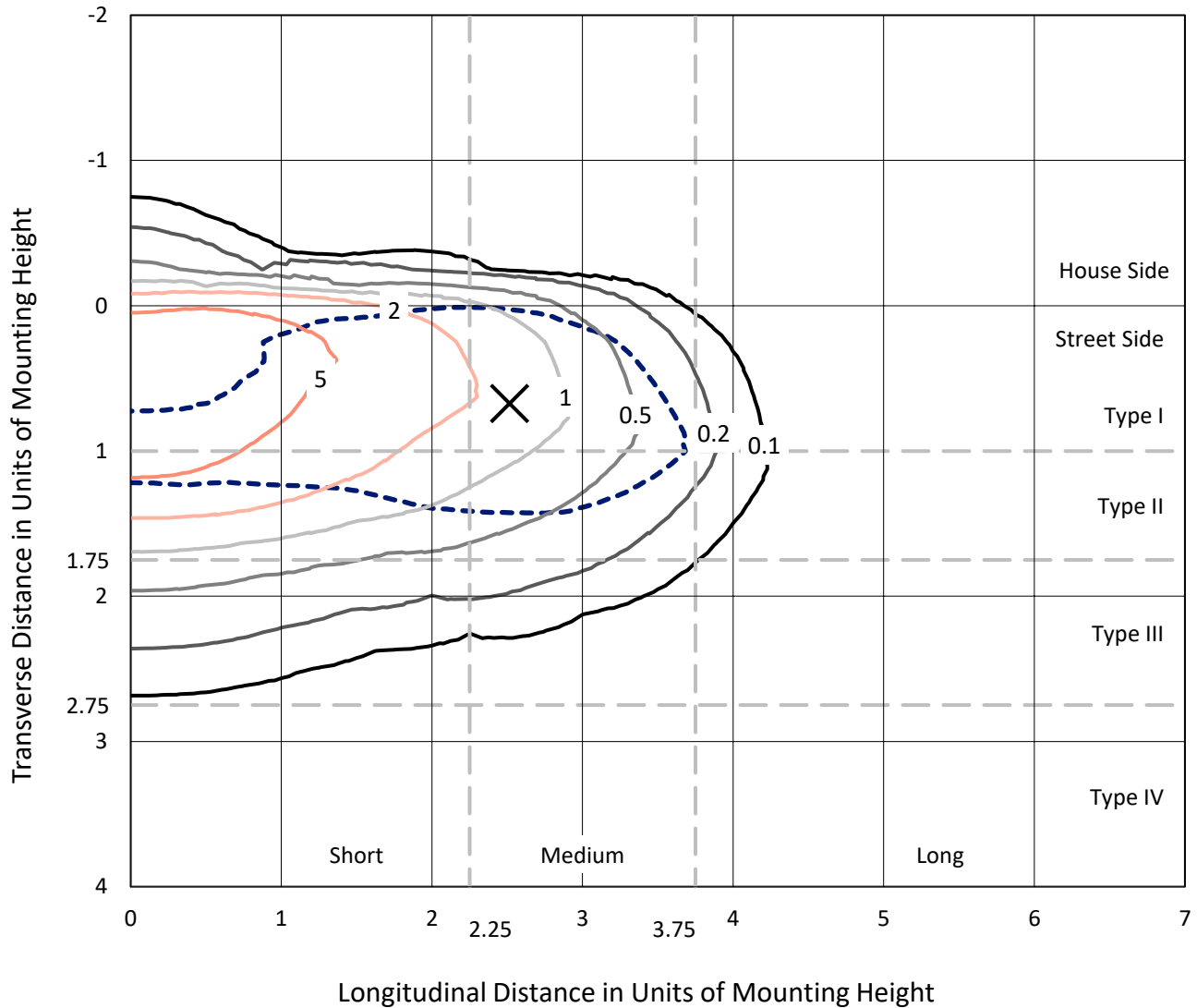
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

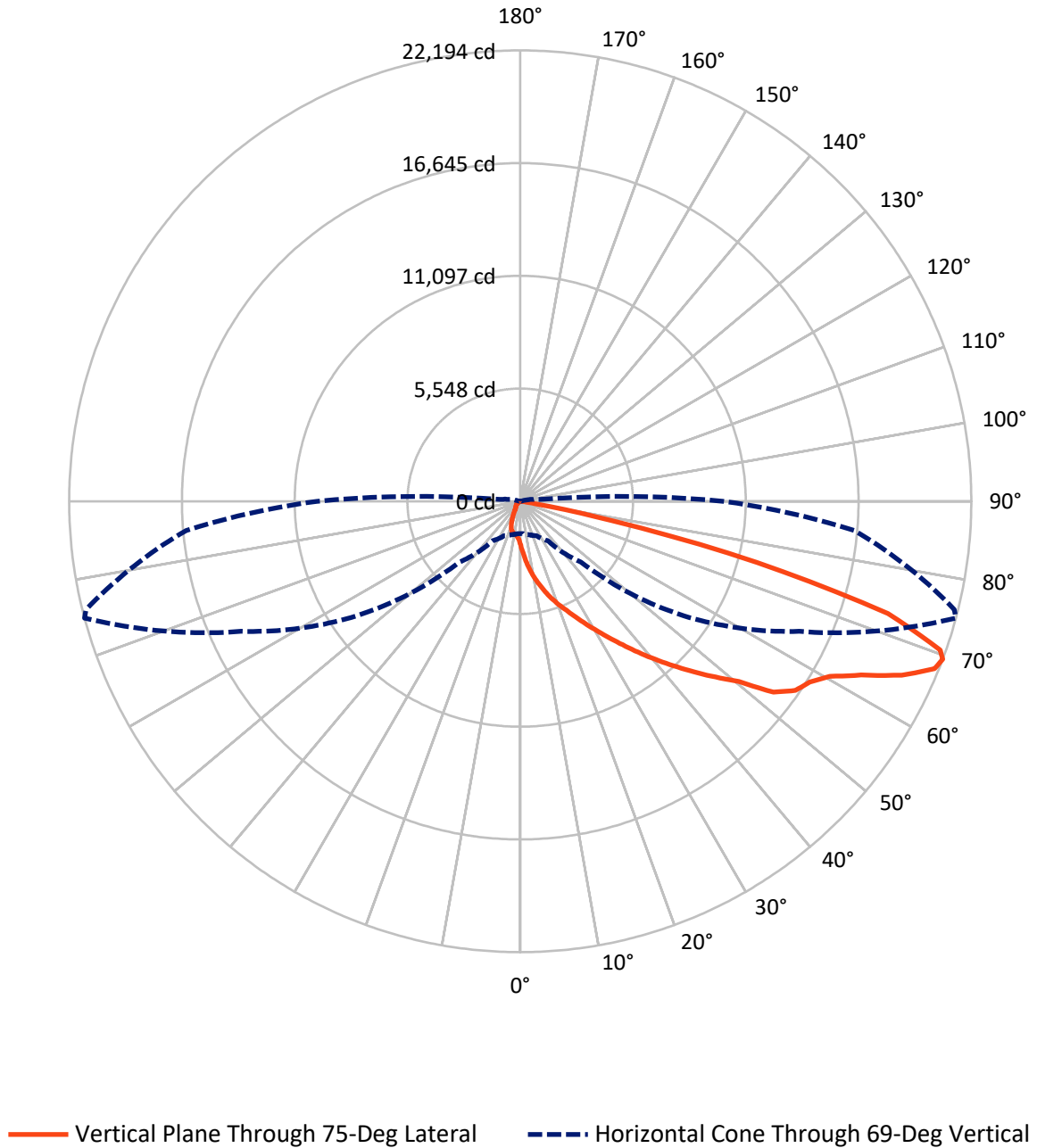
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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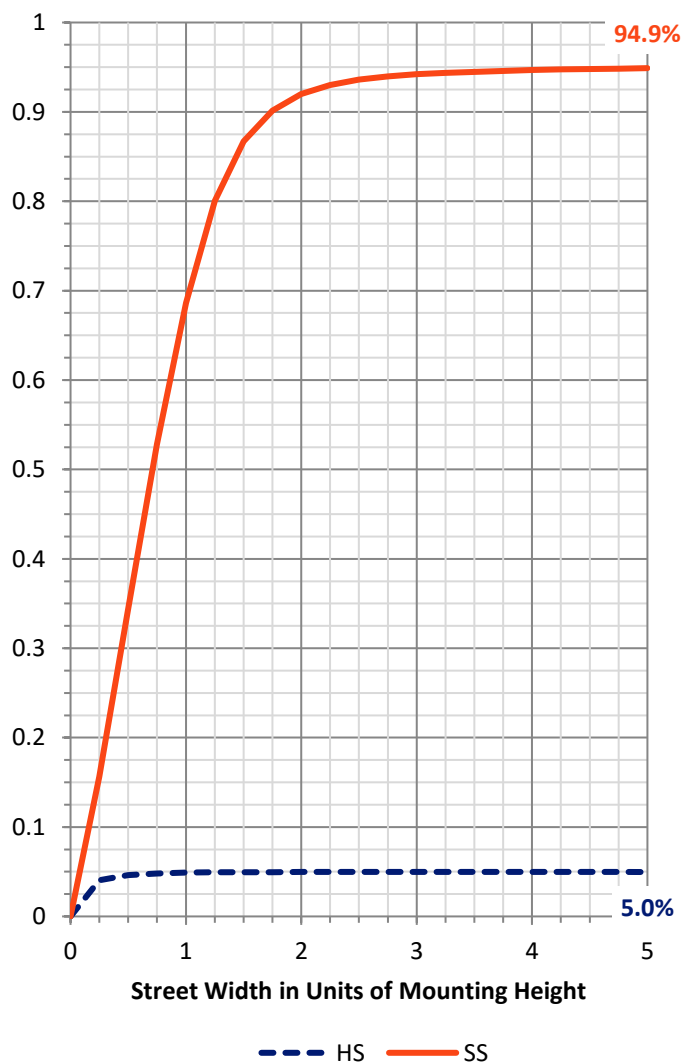
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1151.0 | 0.0 | 1151.0 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 21919.0 | 0.0 | 21919.0 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 23070.0 | 0.0 | 23070.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.3 | 1.1 |
| 10°-20° | 894.9 | 3.9 |
| 20°-30° | 1708.4 | 7.4 |
| 30°-40° | 3064.5 | 13.3 |
| 40°-50° | 4695.1 | 20.4 |
| 50°-60° | 5456.9 | 23.7 |
| 60°-70° | 4832.1 | 20.9 |
| 70°-80° | 2084.3 | 9.0 |
| 80°-90° | 83.5 | 0.4 |
| 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° | 23070.0 | 100.0 |
| 0°-180° | 23070.0 | 100.0 |

Coefficient of Utilization



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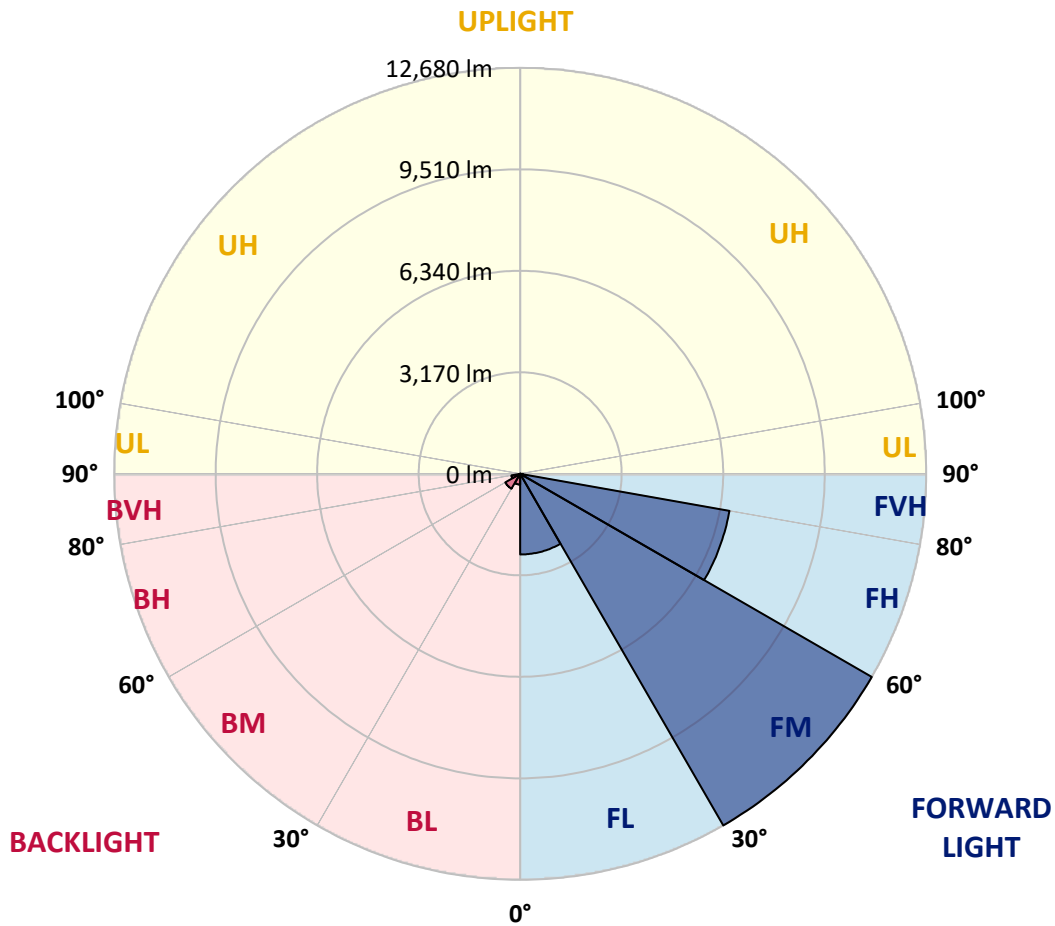
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2519.3 | 10.9 | | | |
| FM (30°-60°) | 12679.9 | 55.0 | | | |
| FH (60°-80°) | 6637.5 | 28.8 | | | G3/7500 |
| FVH (80°-90°) | 82.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 334.3 | 1.4 | B1/500 | | |
| BM (30°-60°) | 536.6 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 278.9 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 |
| 2.5° | 3536.3 | 3501.4 | 3466.5 | 3426.7 | 3337.0 | 3182.6 | 2988.4 | 2779.2 | 2520.2 | 2475.4 | 2266.2 |
| 5° | 4293.3 | 4278.4 | 4243.5 | 4188.7 | 4089.1 | 3919.8 | 3700.6 | 3391.8 | 2958.5 | 2883.8 | 2440.5 |
| 7.5° | 4826.2 | 4816.3 | 4786.4 | 4721.6 | 4632.0 | 4462.7 | 4233.5 | 3899.8 | 3396.8 | 3312.1 | 2659.7 |
| 10° | 5304.4 | 5299.4 | 5274.5 | 5214.7 | 5125.1 | 4940.8 | 4696.7 | 4348.1 | 3815.2 | 3720.5 | 2913.7 |
| 12.5° | 5737.7 | 5742.7 | 5732.7 | 5702.8 | 5638.1 | 5463.8 | 5184.8 | 4806.3 | 4218.6 | 4114.0 | 3217.5 |
| 15° | 5991.7 | 6006.6 | 6046.5 | 6106.3 | 6126.2 | 5986.7 | 5697.8 | 5279.5 | 4632.0 | 4542.3 | 3566.1 |
| 17.5° | 5907.0 | 5922.0 | 6046.5 | 6250.7 | 6444.9 | 6464.9 | 6205.9 | 5727.7 | 5040.4 | 4950.8 | 3909.8 |
| 20° | 5702.8 | 5722.8 | 5852.2 | 6131.2 | 6509.7 | 6773.7 | 6669.1 | 6215.8 | 5428.9 | 5319.3 | 4238.5 |
| 22.5° | 5931.9 | 5931.9 | 5971.8 | 6141.1 | 6484.8 | 6898.2 | 7037.6 | 6703.9 | 5827.3 | 5692.9 | 4567.2 |
| 25° | 6718.9 | 6703.9 | 6619.3 | 6549.5 | 6659.1 | 7027.7 | 7316.6 | 7202.0 | 6295.5 | 6141.1 | 4915.9 |
| 27.5° | 7715.0 | 7784.7 | 7625.4 | 7371.3 | 7122.3 | 7281.7 | 7565.6 | 7695.1 | 6813.5 | 6654.1 | 5274.5 |
| 30° | 8830.7 | 8860.6 | 8671.3 | 8332.6 | 7894.3 | 7739.9 | 7859.4 | 8118.4 | 7376.3 | 7202.0 | 5648.0 |
| 32.5° | 9836.8 | 9811.9 | 9652.5 | 9298.9 | 8756.0 | 8422.3 | 8238.0 | 8457.1 | 7988.9 | 7789.7 | 6031.6 |
| 35° | 10728.3 | 10748.2 | 10554.0 | 10145.6 | 9612.6 | 9259.0 | 8820.7 | 8840.6 | 8676.3 | 8447.2 | 6474.8 |
| 37.5° | 11530.2 | 11495.3 | 11311.0 | 10902.6 | 10419.5 | 10036.0 | 9572.8 | 9239.1 | 9428.3 | 9189.3 | 6972.9 |
| 40° | 12182.6 | 12147.8 | 11953.5 | 11555.1 | 11101.8 | 10788.1 | 10424.5 | 9772.0 | 10220.3 | 9946.3 | 7505.8 |
| 42.5° | 12700.6 | 12660.8 | 12496.4 | 12112.9 | 11674.6 | 11395.7 | 11221.4 | 10429.5 | 11067.0 | 10793.0 | 8103.5 |
| 45° | 12954.6 | 12919.8 | 12820.2 | 12531.3 | 12147.8 | 11903.7 | 11988.4 | 11186.5 | 11973.5 | 11744.3 | 8760.9 |
| 47.5° | 12655.8 | 12640.9 | 12755.4 | 12705.6 | 12486.5 | 12357.0 | 12650.8 | 12013.3 | 12924.8 | 12700.6 | 9518.0 |
| 50° | 11749.3 | 11774.2 | 12107.9 | 12521.3 | 12625.9 | 12780.3 | 13193.7 | 12884.9 | 13945.8 | 13706.7 | 10389.6 |
| 52.5° | 9513.0 | 9682.4 | 10688.4 | 11684.6 | 12456.6 | 13039.3 | 13831.2 | 14130.1 | 15609.3 | 15375.2 | 11749.3 |
| 55° | 7102.4 | 7172.1 | 8267.9 | 9971.2 | 11774.2 | 13019.4 | 14304.4 | 14862.2 | 16431.1 | 16192.1 | 12107.9 |
| 57.5° | 5633.1 | 5658.0 | 6200.9 | 7939.1 | 10369.7 | 12571.1 | 14553.4 | 15126.2 | 16789.7 | 16590.5 | 12640.9 |
| 60° | 4422.8 | 4452.7 | 4846.2 | 6041.5 | 8392.4 | 11360.8 | 14194.8 | 15355.3 | 17492.0 | 17332.6 | 13572.2 |
| 62.5° | 3441.6 | 3471.5 | 3710.6 | 4412.8 | 6295.5 | 9498.1 | 13472.6 | 15723.9 | 18826.8 | 18752.1 | 15096.3 |
| 65° | 2664.6 | 2674.6 | 2839.0 | 3167.7 | 4447.7 | 7480.9 | 12591.1 | 16067.5 | 20629.8 | 20565.1 | 16331.5 |
| 67.5° | 1967.4 | 1982.3 | 2096.8 | 2301.1 | 3003.3 | 5374.1 | 11146.7 | 15803.6 | 21989.5 | 21800.3 | 16779.8 |
| 69° | 1588.8 | 1603.8 | 1703.4 | 1867.7 | 2370.8 | 4233.5 | 9826.8 | 15151.1 | 22193.7 | 22014.4 | 16495.9 |
| 70° | 1359.7 | 1369.7 | 1469.3 | 1608.7 | 2022.1 | 3596.0 | 8780.9 | 14588.3 | 21924.8 | 21750.4 | 15848.4 |
| 72.5° | 871.6 | 921.4 | 1021.0 | 1110.7 | 1339.8 | 2380.7 | 5927.0 | 12098.0 | 18916.5 | 18617.6 | 12411.7 |
| 75° | 483.1 | 498.1 | 677.4 | 786.9 | 891.5 | 1549.0 | 3297.2 | 7545.7 | 12033.2 | 11824.0 | 6639.2 |
| 77.5° | 398.5 | 408.4 | 478.1 | 597.7 | 597.7 | 866.6 | 1245.2 | 2973.4 | 4577.2 | 4128.9 | 1798.0 |
| 80° | 278.9 | 288.9 | 363.6 | 393.5 | 428.3 | 488.1 | 403.4 | 652.5 | 707.3 | 627.6 | 269.0 |
| 82.5° | 194.2 | 204.2 | 249.0 | 323.7 | 343.7 | 229.1 | 149.4 | 194.2 | 204.2 | 204.2 | 104.6 |
| 85° | 34.9 | 49.8 | 184.3 | 269.0 | 204.2 | 69.7 | 84.7 | 69.7 | 64.7 | 69.7 | 24.9 |
| 87.5° | 0.0 | 0.0 | 114.6 | 129.5 | 109.6 | 29.9 | 34.9 | 24.9 | 14.9 | 19.9 | 10.0 |
| 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° | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 | 2146.7 |
| 2.5° | 2161.6 | 2057.0 | 1877.7 | 1748.2 | 1638.6 | 1554.0 | 1519.1 | 1464.3 | 1424.5 | 1444.4 | 1419.5 |
| 5° | 2221.4 | 2037.1 | 1748.2 | 1563.9 | 1434.4 | 1324.8 | 1235.2 | 1165.5 | 1110.7 | 1100.7 | 1090.8 |
| 7.5° | 2316.0 | 2052.0 | 1673.5 | 1444.4 | 1250.1 | 1080.8 | 941.3 | 836.7 | 757.1 | 757.1 | 727.2 |
| 10° | 2445.5 | 2091.9 | 1628.7 | 1324.8 | 1036.0 | 806.9 | 667.4 | 567.8 | 527.9 | 523.0 | 513.0 |
| 12.5° | 2624.8 | 2166.6 | 1593.8 | 1170.4 | 806.9 | 587.7 | 503.0 | 468.2 | 453.2 | 448.3 | 443.3 |
| 15° | 2868.8 | 2276.2 | 1554.0 | 981.2 | 612.6 | 483.1 | 448.3 | 418.4 | 403.4 | 398.5 | 393.5 |
| 17.5° | 3102.9 | 2375.8 | 1469.3 | 786.9 | 498.1 | 438.3 | 398.5 | 373.5 | 353.6 | 348.6 | 348.6 |
| 20° | 3322.1 | 2460.4 | 1324.8 | 612.6 | 448.3 | 393.5 | 353.6 | 323.7 | 303.8 | 298.8 | 298.8 |
| 22.5° | 3551.2 | 2530.2 | 1145.5 | 498.1 | 408.4 | 348.6 | 308.8 | 278.9 | 259.0 | 254.0 | 249.0 |
| 25° | 3795.2 | 2580.0 | 941.3 | 443.3 | 368.6 | 308.8 | 264.0 | 239.1 | 224.1 | 219.1 | 214.2 |
| 27.5° | 4059.2 | 2599.9 | 747.1 | 403.4 | 323.7 | 269.0 | 229.1 | 204.2 | 194.2 | 189.3 | 189.3 |
| 30° | 4298.3 | 2580.0 | 577.8 | 358.6 | 283.9 | 234.1 | 199.2 | 179.3 | 169.3 | 164.4 | 164.4 |
| 32.5° | 4547.3 | 2530.2 | 463.2 | 318.8 | 249.0 | 199.2 | 169.3 | 154.4 | 149.4 | 144.4 | 144.4 |
| 35° | 4811.3 | 2465.4 | 398.5 | 283.9 | 214.2 | 174.3 | 149.4 | 139.5 | 134.5 | 129.5 | 129.5 |
| 37.5° | 5120.1 | 2385.7 | 363.6 | 254.0 | 189.3 | 154.4 | 129.5 | 124.5 | 119.5 | 119.5 | 119.5 |
| 40° | 5468.7 | 2286.1 | 338.7 | 229.1 | 169.3 | 134.5 | 114.6 | 109.6 | 104.6 | 104.6 | 104.6 |
| 42.5° | 5837.3 | 2171.6 | 313.8 | 204.2 | 149.4 | 114.6 | 99.6 | 99.6 | 94.6 | 94.6 | 89.7 |
| 45° | 6250.7 | 2057.0 | 288.9 | 179.3 | 129.5 | 99.6 | 84.7 | 79.7 | 79.7 | 74.7 | 74.7 |
| 47.5° | 6738.8 | 1952.4 | 264.0 | 159.4 | 114.6 | 84.7 | 74.7 | 69.7 | 64.7 | 59.8 | 59.8 |
| 50° | 7426.1 | 1942.4 | 234.1 | 139.5 | 104.6 | 69.7 | 59.8 | 54.8 | 49.8 | 44.8 | 44.8 |
| 52.5° | 8108.5 | 1852.8 | 199.2 | 114.6 | 84.7 | 59.8 | 44.8 | 39.8 | 34.9 | 34.9 | 29.9 |
| 55° | 8262.9 | 1703.4 | 174.3 | 99.6 | 64.7 | 44.8 | 34.9 | 24.9 | 24.9 | 19.9 | 19.9 |
| 57.5° | 8601.6 | 1633.6 | 149.4 | 79.7 | 49.8 | 34.9 | 19.9 | 14.9 | 14.9 | 14.9 | 14.9 |
| 60° | 9269.0 | 1613.7 | 129.5 | 69.7 | 34.9 | 24.9 | 14.9 | 10.0 | 10.0 | 5.0 | 5.0 |
| 62.5° | 10190.4 | 1593.8 | 109.6 | 59.8 | 24.9 | 14.9 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 65° | 10698.4 | 1459.3 | 89.7 | 44.8 | 19.9 | 14.9 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 10563.9 | 1205.3 | 79.7 | 29.9 | 14.9 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 10001.1 | 1016.1 | 64.7 | 24.9 | 14.9 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9323.8 | 876.6 | 59.8 | 19.9 | 10.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6619.3 | 458.2 | 39.8 | 14.9 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3093.0 | 204.2 | 24.9 | 10.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 682.3 | 94.6 | 14.9 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 129.5 | 34.9 | 10.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 44.8 | 14.9 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.9 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 0.0 | 0.0 | 0.0 | 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)