

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: P481902

Luminaire Tested: **IFLD-S-SA3C-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

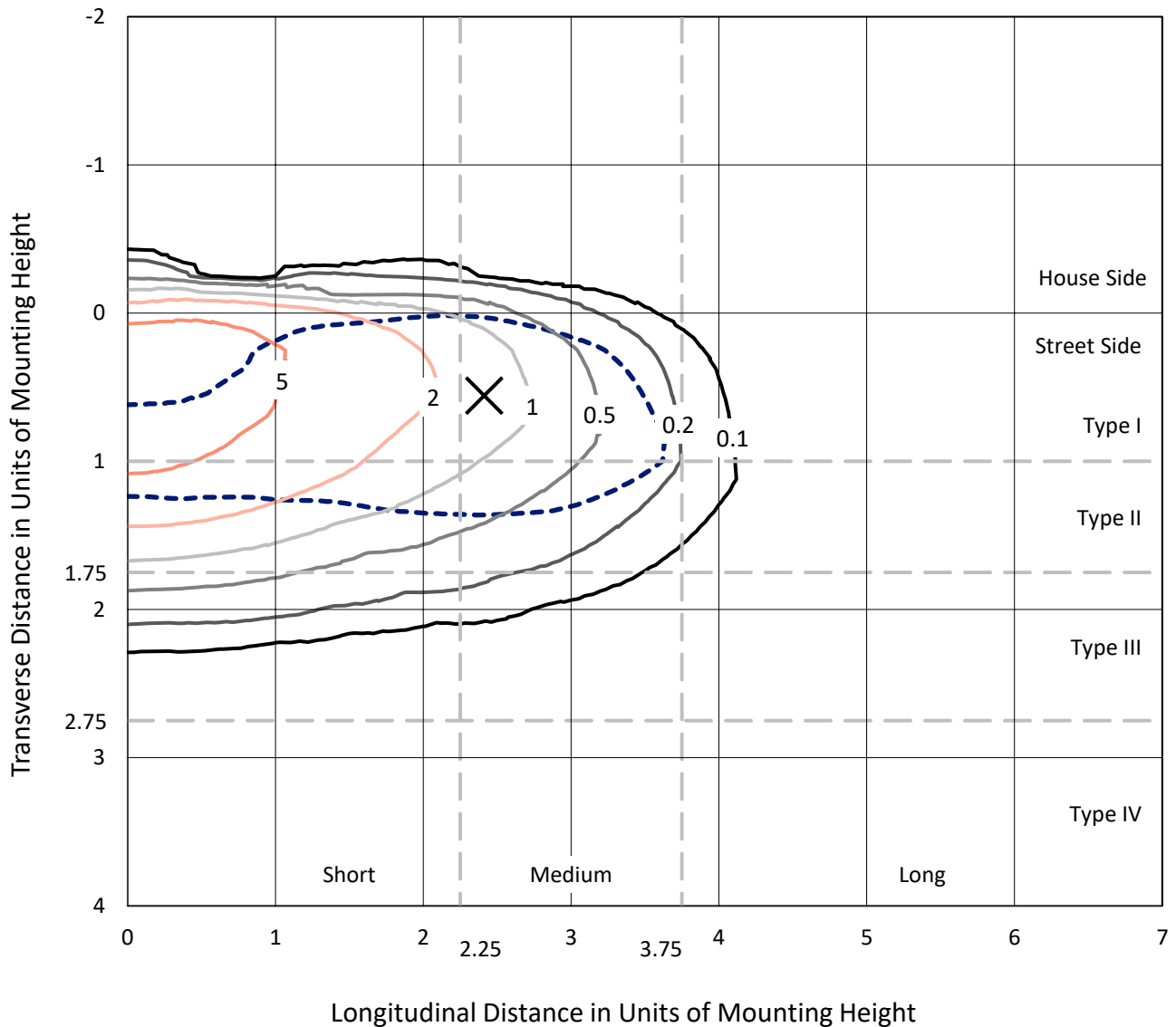
Lumens per Lamp: N/A
Luminaire Lumens: 12266.9 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

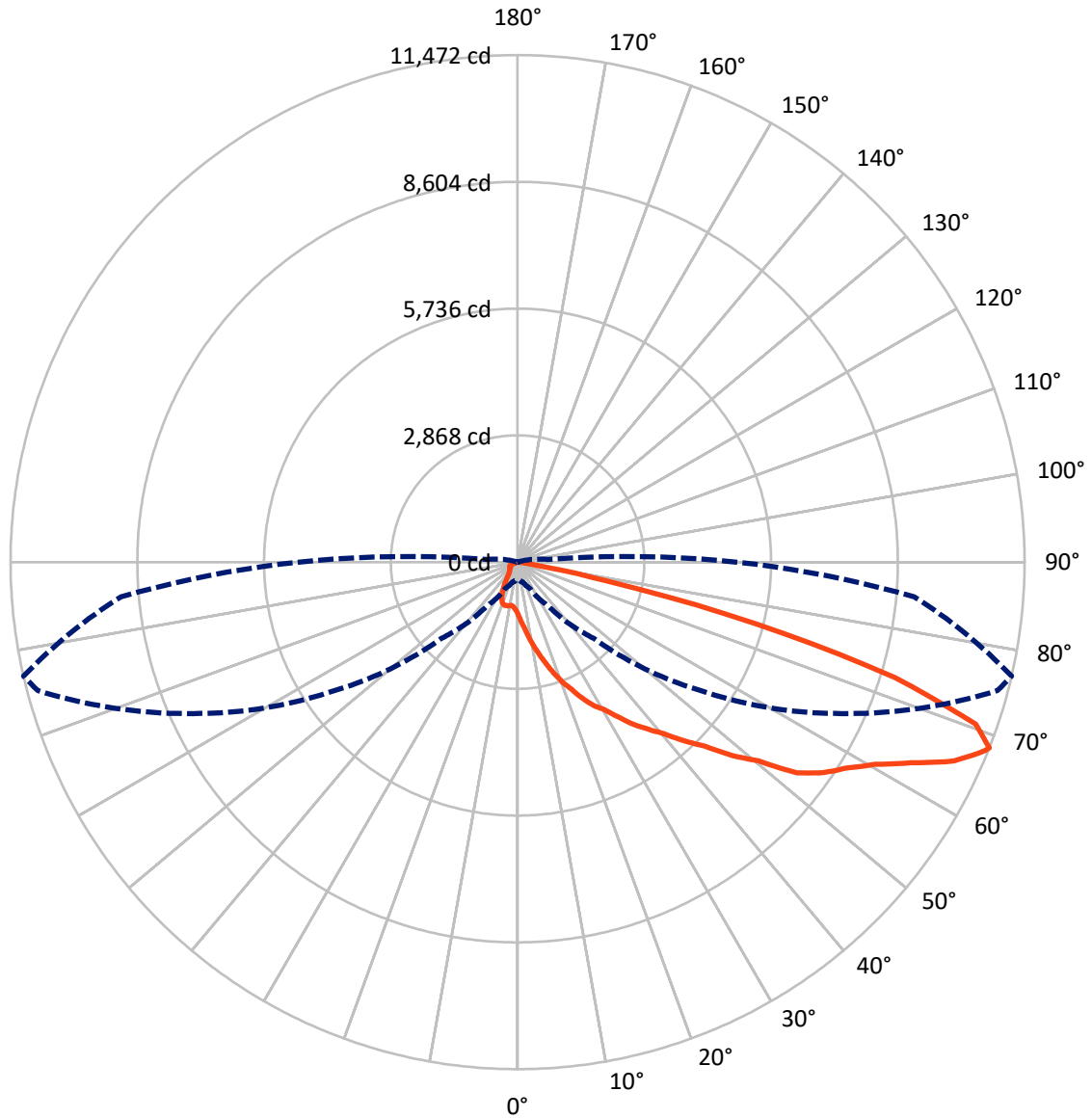
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 556.3 | 0.0 | 556.3 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 11710.6 | 0.0 | 11710.6 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 12266.9 | 0.0 | 12266.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 137.2 | 1.1 |
| 10°-20° | 506.1 | 4.1 |
| 20°-30° | 980.8 | 8.0 |
| 30°-40° | 1709.9 | 13.9 |
| 40°-50° | 2504.3 | 20.4 |
| 50°-60° | 2942.1 | 24.0 |
| 60°-70° | 2484.4 | 20.3 |
| 70°-80° | 963.0 | 7.9 |
| 80°-90° | 39.2 | 0.3 |
| 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° | 12266.9 | 100.0 |
| 0°-180° | 12266.9 | 100.0 |

Coefficient of Utilization

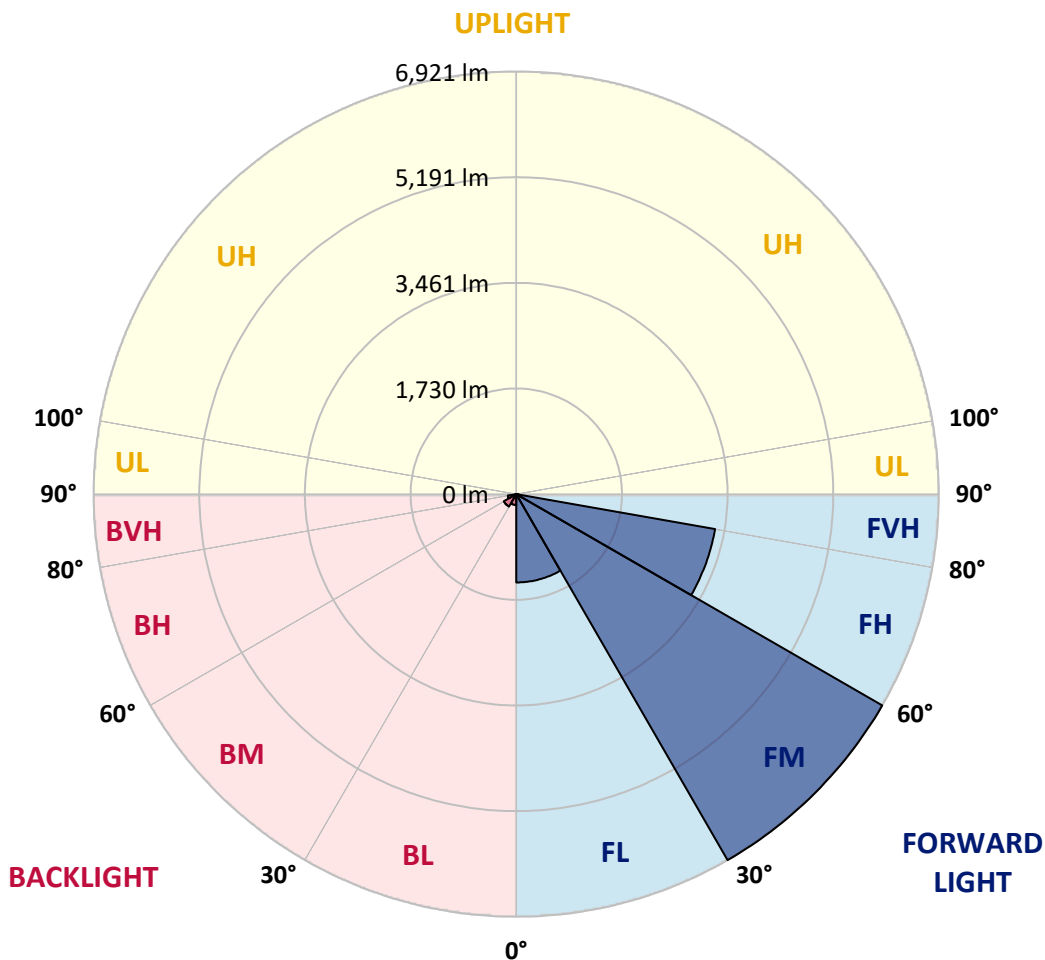


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1446.4 | 11.8 | | | |
| FM (30°-60°) | 6921.2 | 56.4 | | | |
| FH (60°-80°) | 3306.9 | 27.0 | | | G2/5000 |
| FVH (80°-90°) | 36.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 177.7 | 1.4 | B1/500 | | |
| BM (30°-60°) | 235.1 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 140.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 |
| 2.5° | 1784.7 | 1750.9 | 1715.4 | 1705.2 | 1639.3 | 1565.0 | 1495.7 | 1428.1 | 1314.8 | 1316.5 | 1238.8 |
| 5° | 2300.1 | 2257.9 | 2229.2 | 2222.4 | 2119.3 | 1990.9 | 1886.1 | 1695.1 | 1507.5 | 1465.3 | 1323.3 |
| 7.5° | 2724.3 | 2710.8 | 2668.6 | 2633.1 | 2557.0 | 2399.9 | 2276.5 | 2002.7 | 1717.1 | 1669.8 | 1426.4 |
| 10° | 2981.2 | 3001.5 | 3020.1 | 2974.5 | 2915.3 | 2802.1 | 2633.1 | 2337.3 | 1955.4 | 1896.2 | 1559.9 |
| 12.5° | 3255.0 | 3221.2 | 3233.0 | 3270.2 | 3192.5 | 3167.1 | 2957.6 | 2682.1 | 2234.2 | 2121.0 | 1728.9 |
| 15° | 3326.0 | 3339.5 | 3368.2 | 3476.4 | 3528.8 | 3456.1 | 3275.3 | 2960.9 | 2523.2 | 2366.1 | 1886.1 |
| 17.5° | 3373.3 | 3366.6 | 3402.0 | 3564.3 | 3643.7 | 3713.0 | 3599.8 | 3271.9 | 2775.0 | 2634.8 | 2082.1 |
| 20° | 3432.5 | 3395.3 | 3473.0 | 3576.1 | 3760.3 | 3905.7 | 3900.6 | 3584.6 | 3038.7 | 2890.0 | 2276.5 |
| 22.5° | 3652.2 | 3623.4 | 3686.0 | 3696.1 | 3824.6 | 4027.4 | 4076.4 | 3839.8 | 3309.1 | 3126.6 | 2486.0 |
| 25° | 4057.8 | 4110.2 | 4035.8 | 3971.6 | 4010.5 | 4144.0 | 4179.5 | 4066.2 | 3581.2 | 3413.9 | 2695.6 |
| 27.5° | 4651.0 | 4644.2 | 4497.2 | 4414.4 | 4321.4 | 4304.5 | 4329.9 | 4277.5 | 3795.8 | 3675.8 | 2868.0 |
| 30° | 5288.1 | 5232.4 | 5097.2 | 4897.7 | 4693.2 | 4566.5 | 4531.0 | 4476.9 | 4047.6 | 3873.6 | 3038.7 |
| 32.5° | 5795.1 | 5825.6 | 5675.1 | 5414.9 | 5075.2 | 4904.5 | 4733.8 | 4674.6 | 4324.8 | 4171.0 | 3234.7 |
| 35° | 6261.6 | 6221.0 | 6101.0 | 5881.3 | 5577.1 | 5301.6 | 5034.6 | 4907.9 | 4657.7 | 4505.6 | 3451.1 |
| 37.5° | 6606.4 | 6657.1 | 6428.9 | 6219.3 | 5916.8 | 5688.7 | 5426.7 | 5149.5 | 5000.8 | 4798.0 | 3714.7 |
| 40° | 6932.5 | 6853.1 | 6699.3 | 6506.6 | 6226.1 | 6052.0 | 5879.6 | 5447.0 | 5365.9 | 5103.9 | 4012.1 |
| 42.5° | 6875.1 | 6880.1 | 6795.6 | 6640.2 | 6437.4 | 6337.6 | 6278.5 | 5808.7 | 5697.1 | 5529.8 | 4302.8 |
| 45° | 6640.2 | 6660.4 | 6689.2 | 6613.1 | 6630.0 | 6530.3 | 6689.2 | 6224.4 | 6114.6 | 5937.1 | 4637.5 |
| 47.5° | 6381.6 | 6415.4 | 6408.6 | 6547.2 | 6704.4 | 6738.2 | 7135.3 | 6685.8 | 6638.5 | 6540.4 | 5100.5 |
| 50° | 5952.3 | 5965.8 | 6096.0 | 6347.8 | 6562.4 | 6915.6 | 7470.0 | 7189.4 | 7262.1 | 7069.4 | 5651.5 |
| 52.5° | 5218.8 | 5267.8 | 5602.5 | 5962.5 | 6395.1 | 7005.2 | 7696.4 | 7938.1 | 8122.3 | 7924.6 | 6180.5 |
| 55° | 4291.0 | 4358.6 | 4688.2 | 5362.5 | 5996.3 | 6870.0 | 7902.6 | 8333.6 | 8707.1 | 8407.9 | 6501.6 |
| 57.5° | 3452.7 | 3459.5 | 3755.3 | 4451.6 | 5430.1 | 6604.7 | 8007.4 | 8526.2 | 9028.2 | 8788.2 | 6893.7 |
| 60° | 2631.4 | 2604.3 | 2869.7 | 3473.0 | 4476.9 | 5952.3 | 7745.4 | 8624.3 | 9428.7 | 9290.1 | 7365.2 |
| 62.5° | 1693.4 | 1651.2 | 1940.2 | 2528.3 | 3496.7 | 4865.6 | 7221.5 | 8626.0 | 10054.0 | 10001.6 | 8154.4 |
| 65° | 838.3 | 809.5 | 1058.0 | 1549.8 | 2420.1 | 3721.5 | 6474.5 | 8593.8 | 10817.9 | 10851.7 | 8923.4 |
| 67.5° | 442.8 | 452.9 | 532.4 | 785.9 | 1396.0 | 2629.7 | 5349.0 | 8217.0 | 11208.3 | 11397.6 | 9109.3 |
| 68° | 407.3 | 410.7 | 473.2 | 654.0 | 1211.8 | 2438.7 | 5081.9 | 8107.1 | 11238.7 | 11472.0 | 9006.2 |
| 70° | 331.2 | 336.3 | 358.3 | 410.7 | 655.7 | 1586.9 | 3920.9 | 7174.2 | 10780.7 | 10993.7 | 8152.7 |
| 72.5° | 263.6 | 278.9 | 292.4 | 314.3 | 385.3 | 833.2 | 2438.7 | 5590.6 | 8906.5 | 8930.2 | 6346.1 |
| 75° | 201.1 | 212.9 | 240.0 | 258.6 | 300.8 | 458.0 | 1161.1 | 3408.8 | 5844.1 | 5556.8 | 3738.4 |
| 77.5° | 155.5 | 165.6 | 177.5 | 202.8 | 251.8 | 309.3 | 354.9 | 1446.7 | 2482.7 | 2043.3 | 1056.3 |
| 80° | 93.0 | 99.7 | 138.6 | 158.9 | 219.7 | 209.6 | 140.3 | 402.2 | 503.6 | 397.2 | 192.7 |
| 82.5° | 54.1 | 59.2 | 79.4 | 121.7 | 153.8 | 113.2 | 82.8 | 125.1 | 123.4 | 108.2 | 64.2 |
| 85° | 1.7 | 3.4 | 43.9 | 72.7 | 54.1 | 30.4 | 50.7 | 52.4 | 43.9 | 40.6 | 28.7 |
| 87.5° | 0.0 | 1.7 | 11.8 | 10.1 | 11.8 | 6.8 | 10.1 | 13.5 | 16.9 | 15.2 | 11.8 |
| 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° | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 | 1174.6 |
| 2.5° | 1186.4 | 1149.2 | 1066.4 | 1003.9 | 936.3 | 895.7 | 855.2 | 829.8 | 816.3 | 807.8 | 814.6 |
| 5° | 1216.8 | 1139.1 | 1005.6 | 887.3 | 809.5 | 757.1 | 704.7 | 677.7 | 652.4 | 638.8 | 647.3 |
| 7.5° | 1284.4 | 1167.8 | 946.4 | 818.0 | 726.7 | 645.6 | 579.7 | 527.3 | 496.9 | 469.8 | 474.9 |
| 10° | 1367.2 | 1184.7 | 948.1 | 777.4 | 645.6 | 517.2 | 424.2 | 358.3 | 321.1 | 297.4 | 295.8 |
| 12.5° | 1451.7 | 1250.6 | 954.9 | 736.9 | 545.9 | 388.7 | 278.9 | 229.8 | 207.9 | 196.0 | 196.0 |
| 15° | 1580.2 | 1309.8 | 938.0 | 662.5 | 414.1 | 253.5 | 191.0 | 174.1 | 165.6 | 155.5 | 157.2 |
| 17.5° | 1691.7 | 1404.4 | 929.5 | 551.0 | 283.9 | 182.5 | 158.9 | 140.3 | 131.8 | 121.7 | 121.7 |
| 20° | 1842.1 | 1463.6 | 883.9 | 425.9 | 196.0 | 152.1 | 128.4 | 111.5 | 98.0 | 89.6 | 91.3 |
| 22.5° | 1979.0 | 1509.2 | 802.8 | 290.7 | 150.4 | 120.0 | 94.6 | 77.7 | 65.9 | 55.8 | 57.5 |
| 25° | 2127.8 | 1554.8 | 684.5 | 179.1 | 106.5 | 74.4 | 50.7 | 37.2 | 25.4 | 18.6 | 18.6 |
| 27.5° | 2234.2 | 1568.4 | 530.7 | 106.5 | 64.2 | 33.8 | 11.8 | 1.7 | 0.0 | 0.0 | 0.0 |
| 30° | 2342.4 | 1573.4 | 366.7 | 57.5 | 25.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2465.8 | 1571.7 | 229.8 | 30.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2560.4 | 1543.0 | 109.9 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2704.1 | 1500.8 | 33.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 2868.0 | 1424.7 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 3015.0 | 1347.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 3182.3 | 1250.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 3476.4 | 1210.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 3860.0 | 1178.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 4096.7 | 1083.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4220.0 | 985.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4402.5 | 938.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 4673.0 | 941.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 5095.5 | 988.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 5328.7 | 941.4 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5131.0 | 753.8 | 32.1 | 8.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 4960.3 | 692.9 | 32.1 | 8.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4100.0 | 451.2 | 30.4 | 8.5 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2986.3 | 250.1 | 25.4 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1737.4 | 125.1 | 18.6 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 452.9 | 62.5 | 15.2 | 8.5 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 89.6 | 40.6 | 13.5 | 10.1 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 42.3 | 28.7 | 13.5 | 10.1 | 8.5 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 22.0 | 13.5 | 13.5 | 10.1 | 10.1 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 5.1 | 5.1 | 5.1 | 5.1 | 3.4 | 1.7 | 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)