

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: P482191

Luminaire Tested: **IFLD-S-SA6D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482191
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

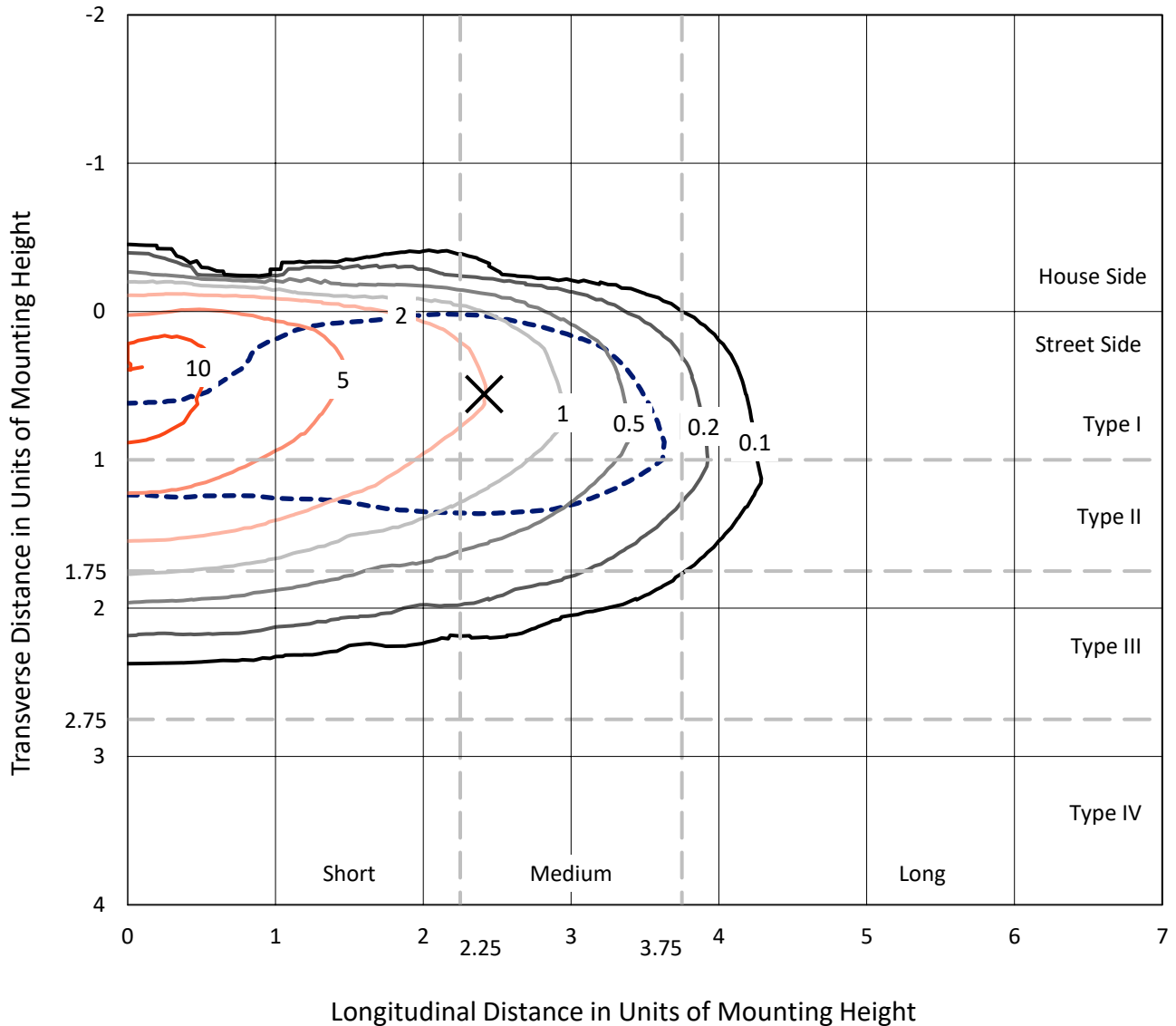
Lumens per Lamp: N/A
Luminaire Lumens: 26424.5 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

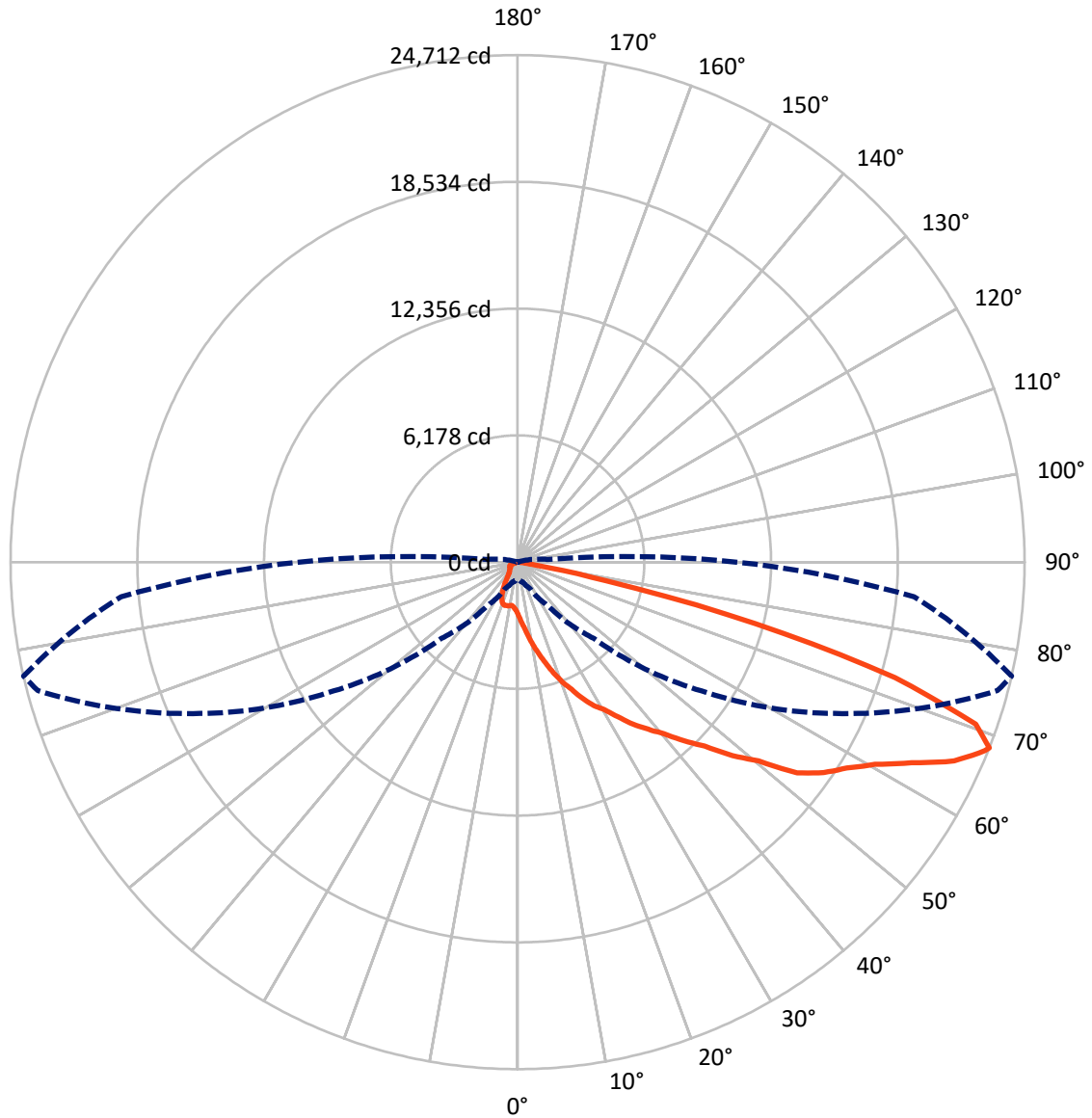
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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 | 1198.3 | 0.0 | 1198.3 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 25226.2 | 0.0 | 25226.2 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 26424.5 | 0.0 | 26424.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 295.6 | 1.1 |
| 10°-20° | 1090.2 | 4.1 |
| 20°-30° | 2112.8 | 8.0 |
| 30°-40° | 3683.3 | 13.9 |
| 40°-50° | 5394.5 | 20.4 |
| 50°-60° | 6337.7 | 24.0 |
| 60°-70° | 5351.7 | 20.3 |
| 70°-80° | 2074.4 | 7.9 |
| 80°-90° | 84.3 | 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° | 26424.5 | 100.0 |
| 0°-180° | 26424.5 | 100.0 |

Coefficient of Utilization



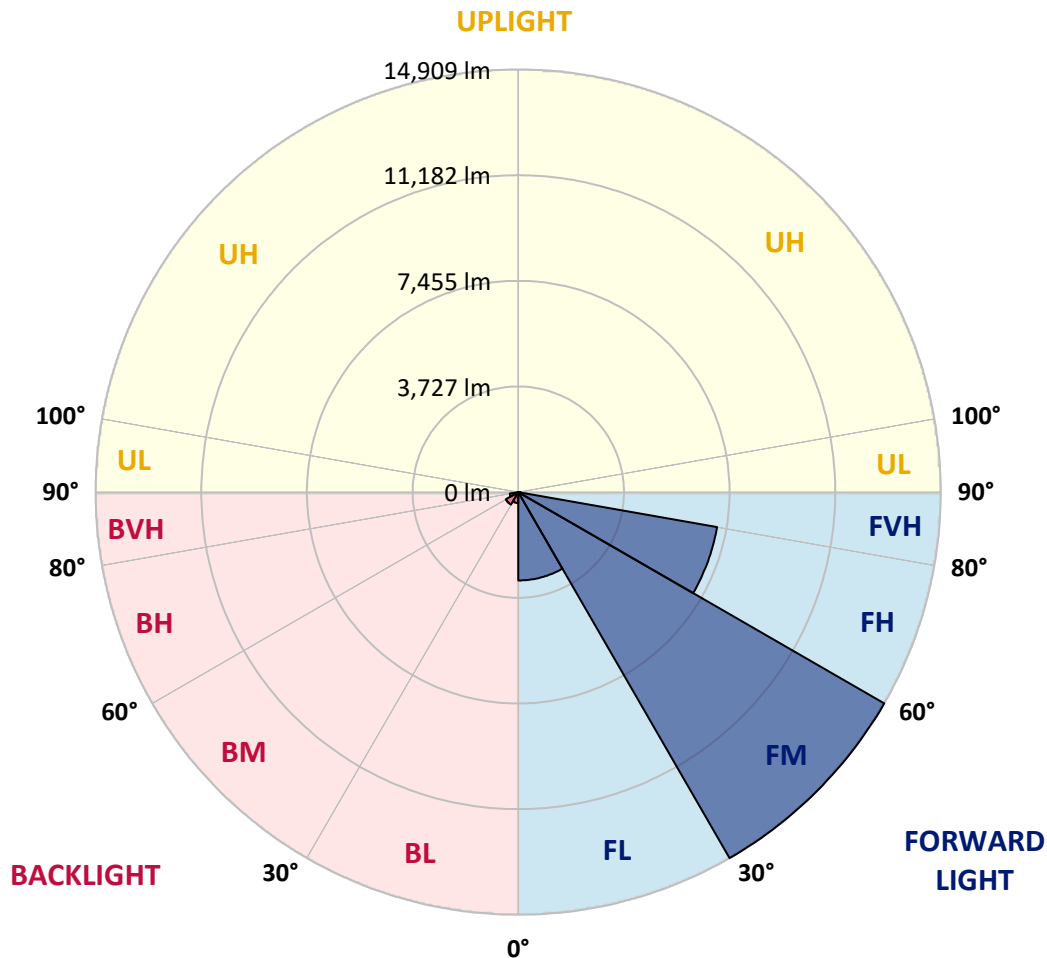
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3115.7 | 11.8 | | | |
| FM (30°-60°) | 14909.2 | 56.4 | | | |
| FH (60°-80°) | 7123.5 | 27.0 | | | G3/7500 |
| FVH (80°-90°) | 77.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 382.9 | 1.4 | B1/500 | | |
| BM (30°-60°) | 506.4 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 302.6 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.5 | 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° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 |
| 2.5° | 3844.4 | 3771.6 | 3695.2 | 3673.3 | 3531.3 | 3371.2 | 3221.9 | 3076.3 | 2832.4 | 2836.0 | 2668.5 |
| 5° | 4954.8 | 4863.8 | 4801.9 | 4787.3 | 4565.3 | 4288.6 | 4062.9 | 3651.5 | 3247.4 | 3156.4 | 2850.6 |
| 7.5° | 5868.6 | 5839.5 | 5748.4 | 5672.0 | 5508.2 | 5169.6 | 4903.8 | 4314.1 | 3698.8 | 3596.9 | 3072.6 |
| 10° | 6421.9 | 6465.6 | 6505.7 | 6407.4 | 6280.0 | 6036.0 | 5672.0 | 5034.9 | 4212.1 | 4084.7 | 3360.2 |
| 12.5° | 7011.7 | 6938.9 | 6964.4 | 7044.5 | 6877.0 | 6822.4 | 6371.0 | 5777.6 | 4812.8 | 4568.9 | 3724.3 |
| 15° | 7164.6 | 7193.7 | 7255.6 | 7488.6 | 7601.5 | 7444.9 | 7055.4 | 6378.3 | 5435.4 | 5096.8 | 4062.9 |
| 17.5° | 7266.6 | 7252.0 | 7328.4 | 7677.9 | 7849.0 | 7998.3 | 7754.4 | 7048.1 | 5977.8 | 5675.6 | 4485.2 |
| 20° | 7394.0 | 7313.9 | 7481.3 | 7703.4 | 8100.2 | 8413.3 | 8402.4 | 7721.6 | 6545.7 | 6225.4 | 4903.8 |
| 22.5° | 7867.2 | 7805.4 | 7940.1 | 7961.9 | 8238.6 | 8675.5 | 8781.0 | 8271.4 | 7128.2 | 6735.0 | 5355.3 |
| 25° | 8741.0 | 8853.8 | 8693.7 | 8555.3 | 8639.0 | 8926.7 | 9003.1 | 8759.2 | 7714.3 | 7353.9 | 5806.7 |
| 27.5° | 10018.8 | 10004.3 | 9687.5 | 9509.1 | 9308.9 | 9272.5 | 9327.1 | 9214.3 | 8176.7 | 7918.2 | 6178.0 |
| 30° | 11391.3 | 11271.2 | 10979.9 | 10550.3 | 10109.8 | 9836.8 | 9760.3 | 9643.8 | 8719.1 | 8344.2 | 6545.7 |
| 32.5° | 12483.5 | 12549.0 | 12225.0 | 11664.4 | 10932.6 | 10564.9 | 10197.2 | 10069.8 | 9316.2 | 8984.9 | 6968.0 |
| 35° | 13488.3 | 13400.9 | 13142.4 | 12669.1 | 12013.8 | 11420.4 | 10845.2 | 10572.2 | 10033.4 | 9705.7 | 7434.0 |
| 37.5° | 14230.9 | 14340.2 | 13848.7 | 13397.3 | 12745.6 | 12254.1 | 11689.8 | 11092.8 | 10772.4 | 10335.5 | 8001.9 |
| 40° | 14933.6 | 14762.5 | 14431.2 | 14016.2 | 13411.8 | 13036.8 | 12665.5 | 11733.5 | 11558.8 | 10994.5 | 8642.7 |
| 42.5° | 14809.8 | 14820.7 | 14638.7 | 14303.8 | 13866.9 | 13652.1 | 13524.7 | 12512.6 | 12272.3 | 11911.9 | 9268.9 |
| 45° | 14303.8 | 14347.4 | 14409.3 | 14245.5 | 14281.9 | 14067.1 | 14409.3 | 13408.2 | 13171.5 | 12789.3 | 9989.7 |
| 47.5° | 13746.8 | 13819.6 | 13805.0 | 14103.5 | 14442.1 | 14514.9 | 15370.4 | 14402.1 | 14300.1 | 14089.0 | 10987.2 |
| 50° | 12822.1 | 12851.2 | 13131.5 | 13673.9 | 14136.3 | 14897.2 | 16091.3 | 15486.9 | 15643.5 | 15228.5 | 12174.0 |
| 52.5° | 11242.0 | 11347.6 | 12068.5 | 12843.9 | 13775.9 | 15090.1 | 16579.1 | 17099.7 | 17496.5 | 17070.6 | 13313.5 |
| 55° | 9243.4 | 9389.0 | 10098.9 | 11551.5 | 12916.7 | 14798.9 | 17023.3 | 17951.6 | 18756.2 | 18111.8 | 14005.2 |
| 57.5° | 7437.7 | 7452.2 | 8089.3 | 9589.2 | 11697.1 | 14227.3 | 17249.0 | 18366.6 | 19447.9 | 18930.9 | 14849.8 |
| 60° | 5668.4 | 5610.1 | 6181.7 | 7481.3 | 9643.8 | 12822.1 | 16684.7 | 18577.8 | 20310.7 | 20012.2 | 15865.6 |
| 62.5° | 3647.8 | 3556.8 | 4179.4 | 5446.3 | 7532.3 | 10481.2 | 15556.1 | 18581.4 | 21657.7 | 21544.8 | 17565.7 |
| 65° | 1805.7 | 1743.8 | 2279.0 | 3338.4 | 5213.3 | 8016.5 | 13947.0 | 18512.2 | 23303.2 | 23376.0 | 19222.2 |
| 67.5° | 953.8 | 975.7 | 1146.8 | 1692.9 | 3007.1 | 5664.7 | 11522.4 | 17700.4 | 24144.2 | 24551.9 | 19622.6 |
| 68° | 877.4 | 884.7 | 1019.4 | 1408.9 | 2610.3 | 5253.3 | 10947.2 | 17463.8 | 24209.7 | 24712.1 | 19400.5 |
| 70° | 713.5 | 724.5 | 771.8 | 884.7 | 1412.5 | 3418.5 | 8446.1 | 15454.2 | 23223.1 | 23681.8 | 17562.1 |
| 72.5° | 567.9 | 600.7 | 629.8 | 677.1 | 830.0 | 1794.8 | 5253.3 | 12043.0 | 19185.7 | 19236.7 | 13670.3 |
| 75° | 433.2 | 458.7 | 517.0 | 557.0 | 648.0 | 986.6 | 2501.1 | 7343.0 | 12589.1 | 11970.2 | 8052.9 |
| 77.5° | 334.9 | 356.8 | 382.3 | 436.9 | 542.4 | 666.2 | 764.5 | 3116.3 | 5348.0 | 4401.4 | 2275.3 |
| 80° | 200.2 | 214.8 | 298.5 | 342.2 | 473.3 | 451.4 | 302.2 | 866.5 | 1084.9 | 855.5 | 415.0 |
| 82.5° | 116.5 | 127.4 | 171.1 | 262.1 | 331.3 | 243.9 | 178.4 | 269.4 | 265.8 | 233.0 | 138.3 |
| 85° | 3.6 | 7.3 | 94.7 | 156.5 | 116.5 | 65.5 | 109.2 | 112.9 | 94.7 | 87.4 | 61.9 |
| 87.5° | 0.0 | 3.6 | 25.5 | 21.8 | 25.5 | 14.6 | 21.8 | 29.1 | 36.4 | 32.8 | 25.5 |
| 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° | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 | 2530.2 |
| 2.5° | 2555.7 | 2475.6 | 2297.2 | 2162.5 | 2016.9 | 1929.5 | 1842.1 | 1787.5 | 1758.4 | 1740.2 | 1754.7 |
| 5° | 2621.2 | 2453.7 | 2166.1 | 1911.3 | 1743.8 | 1631.0 | 1518.1 | 1459.9 | 1405.3 | 1376.1 | 1394.3 |
| 7.5° | 2766.8 | 2515.6 | 2038.7 | 1762.0 | 1565.4 | 1390.7 | 1248.7 | 1135.9 | 1070.3 | 1012.1 | 1023.0 |
| 10° | 2945.2 | 2552.0 | 2042.4 | 1674.7 | 1390.7 | 1114.0 | 913.8 | 771.8 | 691.7 | 640.7 | 637.1 |
| 12.5° | 3127.2 | 2694.0 | 2056.9 | 1587.3 | 1175.9 | 837.3 | 600.7 | 495.1 | 447.8 | 422.3 | 422.3 |
| 15° | 3403.9 | 2821.4 | 2020.5 | 1427.1 | 891.9 | 546.1 | 411.4 | 375.0 | 356.8 | 334.9 | 338.6 |
| 17.5° | 3644.2 | 3025.3 | 2002.3 | 1186.8 | 611.6 | 393.2 | 342.2 | 302.2 | 284.0 | 262.1 | 262.1 |
| 20° | 3968.2 | 3152.7 | 1904.0 | 917.4 | 422.3 | 327.7 | 276.7 | 240.3 | 211.2 | 192.9 | 196.6 |
| 22.5° | 4263.1 | 3251.0 | 1729.3 | 626.2 | 324.0 | 258.5 | 203.9 | 167.5 | 142.0 | 120.1 | 123.8 |
| 25° | 4583.5 | 3349.3 | 1474.4 | 385.9 | 229.4 | 160.2 | 109.2 | 80.1 | 54.6 | 40.0 | 40.0 |
| 27.5° | 4812.8 | 3378.4 | 1143.1 | 229.4 | 138.3 | 72.8 | 25.5 | 3.6 | 0.0 | 0.0 | 0.0 |
| 30° | 5045.8 | 3389.4 | 790.0 | 123.8 | 54.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 5311.6 | 3385.7 | 495.1 | 65.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 5515.4 | 3323.8 | 236.6 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 5824.9 | 3232.8 | 72.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 6178.0 | 3069.0 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 6494.8 | 2901.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 6855.2 | 2694.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 7488.6 | 2606.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 8315.0 | 2537.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 8824.7 | 2333.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 9090.5 | 2122.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 9483.7 | 2020.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 10066.1 | 2027.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 10976.3 | 2129.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 11478.7 | 2027.8 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 11052.7 | 1623.7 | 69.2 | 18.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 10685.0 | 1492.6 | 69.2 | 18.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8832.0 | 972.0 | 65.5 | 18.2 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6432.9 | 538.8 | 54.6 | 14.6 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3742.5 | 269.4 | 40.0 | 14.6 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 975.7 | 134.7 | 32.8 | 18.2 | 10.9 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 192.9 | 87.4 | 29.1 | 21.8 | 14.6 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 91.0 | 61.9 | 29.1 | 21.8 | 18.2 | 10.9 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 47.3 | 29.1 | 29.1 | 21.8 | 21.8 | 14.6 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.8 | 10.9 | 10.9 | 10.9 | 10.9 | 7.3 | 3.6 | 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)