

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: P484541

Luminaire Tested: **IFLD-L-SA7D-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484541
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

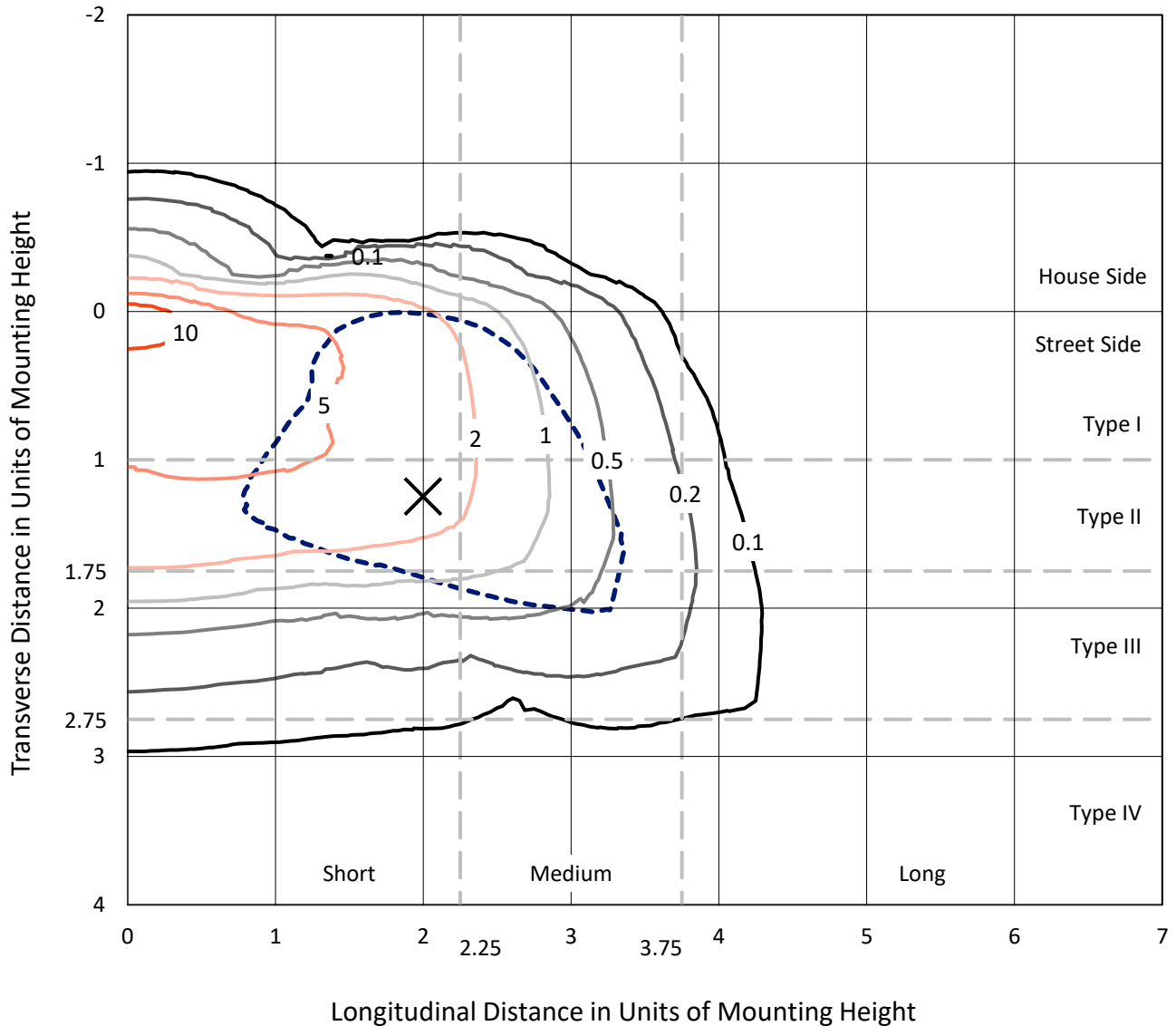
Lumens per Lamp: N/A
Luminaire Lumens: 29987.4 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

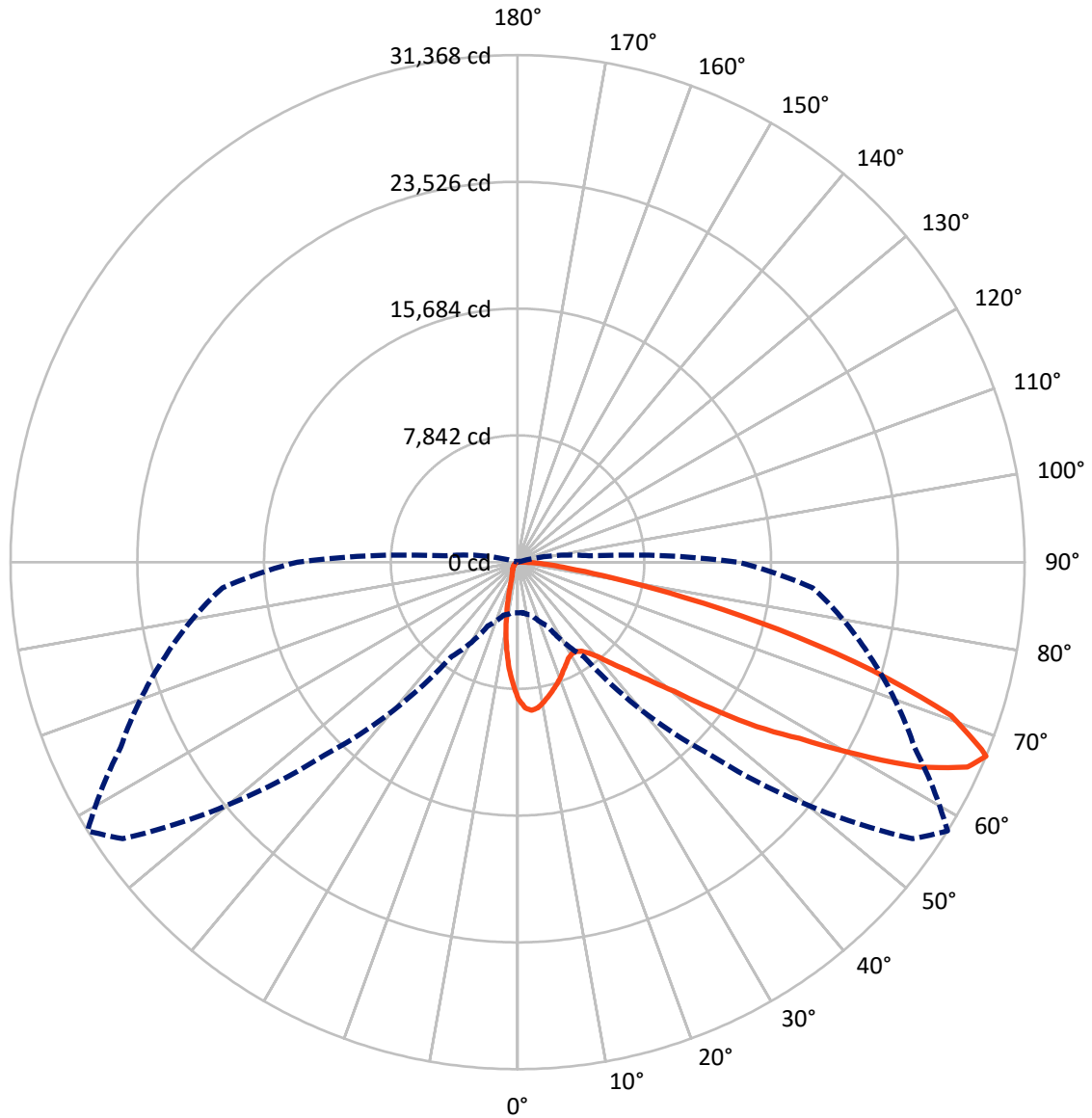
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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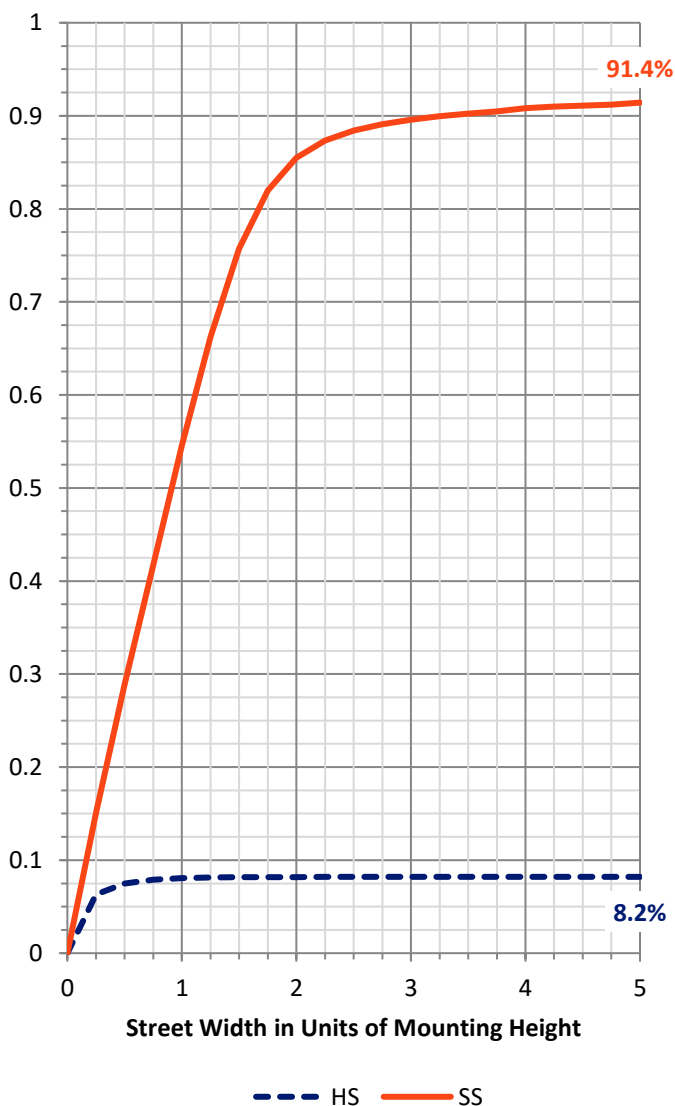
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2478.7 | 0.0 | 2478.7 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 27508.8 | 0.0 | 27508.8 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 29987.4 | 0.0 | 29987.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 674.1 | 2.2 |
| 10°-20° | 1398.2 | 4.7 |
| 20°-30° | 1855.1 | 6.2 |
| 30°-40° | 2570.6 | 8.6 |
| 40°-50° | 4194.5 | 14.0 |
| 50°-60° | 7372.6 | 24.6 |
| 60°-70° | 8165.8 | 27.2 |
| 70°-80° | 3383.9 | 11.3 |
| 80°-90° | 372.5 | 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° | 29987.4 | 100.0 |
| 0°-180° | 29987.4 | 100.0 |

Coefficient of Utilization

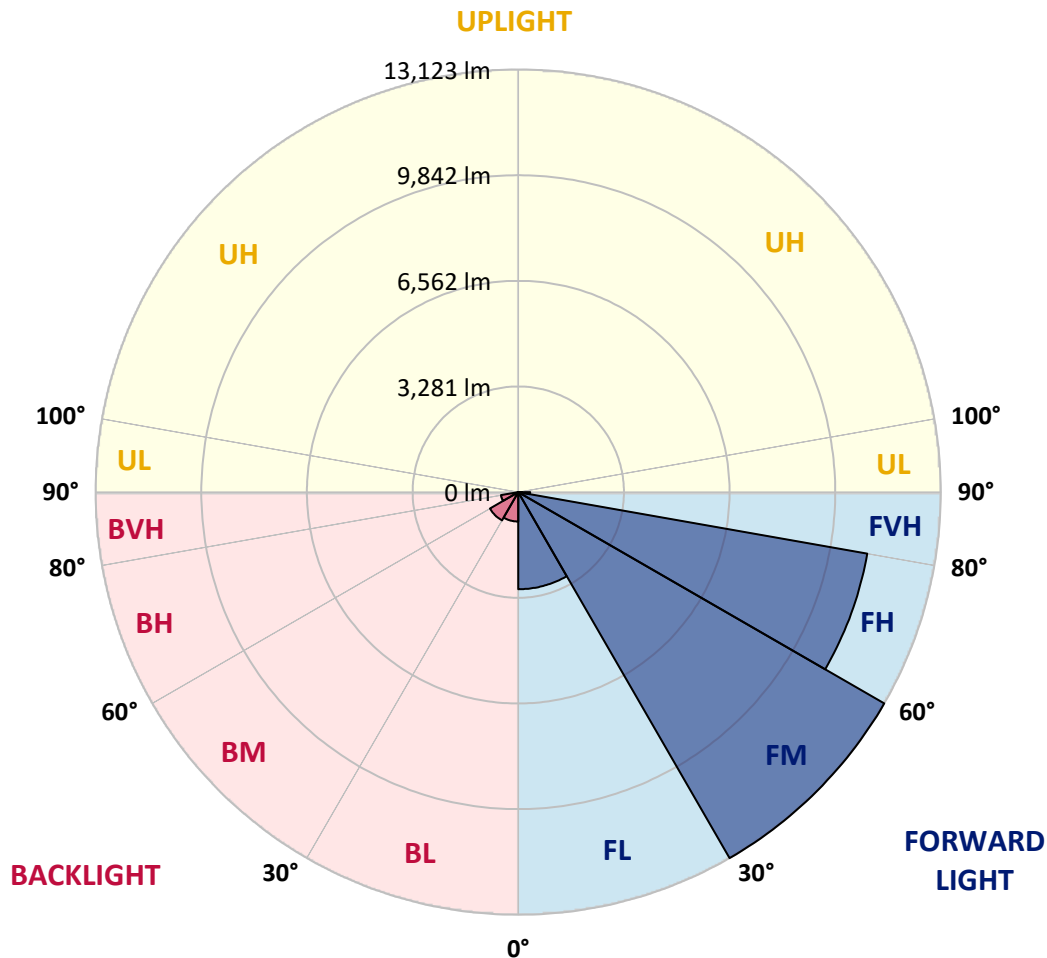


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3014.6 | 10.1 | | | |
| FM (30°-60°) | 13123.1 | 43.8 | | | |
| FH (60°-80°) | 11004.7 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 366.4 | 1.2 | | | G3/500 |
| BL (0°-30°) | 912.9 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1014.7 | 3.4 | B2/2500 | | |
| BH (60°-80°) | 545.0 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 |
| 2.5° | 9244.3 | 9276.2 | 9304.0 | 9252.3 | 9296.1 | 9232.4 | 9069.1 | 9033.3 | 9005.4 | 8762.6 | 8623.3 |
| 5° | 9240.3 | 9204.5 | 9232.4 | 9256.3 | 9196.5 | 9244.3 | 9204.5 | 9208.5 | 9101.0 | 8882.0 | 8491.9 |
| 7.5° | 8623.3 | 8607.3 | 8623.3 | 8738.7 | 8870.1 | 8973.6 | 9033.3 | 9093.0 | 9021.4 | 8694.9 | 8316.7 |
| 10° | 7791.2 | 7870.8 | 7914.6 | 8121.6 | 8324.7 | 8515.8 | 8702.9 | 8814.3 | 8794.4 | 8663.1 | 8125.6 |
| 12.5° | 7209.9 | 7186.0 | 7345.3 | 7480.7 | 7683.7 | 8069.9 | 8396.3 | 8499.8 | 8619.3 | 8436.1 | 7874.8 |
| 15° | 6672.5 | 6608.8 | 6704.3 | 6939.2 | 7285.6 | 7592.1 | 8050.0 | 8205.2 | 8356.5 | 8404.3 | 7739.4 |
| 17.5° | 6158.9 | 6190.7 | 6290.3 | 6501.3 | 6827.7 | 7257.7 | 7687.7 | 7910.6 | 8272.9 | 8209.2 | 7536.4 |
| 20° | 5912.1 | 5979.7 | 6015.6 | 6123.1 | 6350.0 | 6780.0 | 7420.9 | 7600.1 | 7986.3 | 8205.2 | 7337.3 |
| 22.5° | 5924.0 | 5924.0 | 5840.4 | 5904.1 | 6111.1 | 6445.5 | 7058.6 | 7257.7 | 7870.8 | 7998.2 | 7158.2 |
| 25° | 6051.4 | 5971.8 | 5975.8 | 5900.1 | 5987.7 | 6170.8 | 6732.2 | 6975.0 | 7635.9 | 8018.1 | 7062.6 |
| 27.5° | 6147.0 | 6131.0 | 6107.1 | 6087.2 | 5975.8 | 6003.6 | 6517.2 | 6716.3 | 7544.4 | 7994.2 | 6915.3 |
| 30° | 6493.3 | 6421.7 | 6397.8 | 6354.0 | 6206.7 | 6071.3 | 6346.0 | 6596.8 | 7472.7 | 8050.0 | 6831.7 |
| 32.5° | 6783.9 | 6795.9 | 6815.8 | 6688.4 | 6561.0 | 6226.6 | 6393.8 | 6592.8 | 7420.9 | 8177.4 | 6915.3 |
| 35° | 7150.2 | 7202.0 | 7209.9 | 7170.1 | 7034.8 | 6704.3 | 6592.8 | 6764.0 | 7508.5 | 8404.3 | 6923.3 |
| 37.5° | 7707.6 | 7651.8 | 7803.1 | 7819.1 | 7723.5 | 7285.6 | 7054.7 | 7122.3 | 7767.3 | 8766.6 | 7225.9 |
| 40° | 8069.9 | 8137.5 | 8420.2 | 8595.4 | 8432.2 | 8034.0 | 7723.5 | 7711.6 | 8141.5 | 9335.9 | 7600.1 |
| 42.5° | 8472.0 | 8623.3 | 8933.8 | 9312.0 | 9292.1 | 8921.8 | 8607.3 | 8555.6 | 8806.4 | 10160.0 | 8193.3 |
| 45° | 9021.4 | 9156.7 | 9590.7 | 10160.0 | 10470.5 | 10156.0 | 9682.2 | 9578.7 | 9614.6 | 11282.7 | 9204.5 |
| 47.5° | 9933.1 | 9897.2 | 10522.3 | 11083.6 | 11593.2 | 11350.4 | 11147.3 | 10844.8 | 10816.9 | 12604.4 | 10601.9 |
| 50° | 10964.2 | 10956.2 | 11513.6 | 12150.6 | 12739.8 | 13213.6 | 12875.2 | 12544.7 | 12552.7 | 14400.0 | 12246.1 |
| 52.5° | 11943.6 | 12098.8 | 12700.0 | 13333.0 | 14344.2 | 14853.8 | 15180.3 | 15048.9 | 14415.9 | 16004.4 | 14005.8 |
| 55° | 12461.1 | 12596.5 | 13193.7 | 14284.5 | 15881.0 | 17190.8 | 18074.6 | 17963.1 | 16740.9 | 17811.8 | 15741.6 |
| 57.5° | 11971.4 | 12063.0 | 12871.2 | 14300.4 | 16955.9 | 19878.1 | 20726.1 | 20586.7 | 19145.5 | 19193.3 | 17839.7 |
| 60° | 9921.1 | 10064.4 | 11266.8 | 12942.8 | 16537.9 | 21948.3 | 24376.8 | 24165.8 | 21335.2 | 20941.0 | 19189.3 |
| 62.5° | 6871.5 | 6967.1 | 7954.4 | 10040.6 | 14555.2 | 22668.9 | 27824.5 | 27940.0 | 23644.3 | 22302.6 | 19591.4 |
| 65° | 4451.0 | 4443.0 | 5008.3 | 6421.7 | 10315.3 | 20487.2 | 29862.9 | 30579.5 | 25873.7 | 22509.6 | 19468.0 |
| 67° | 3145.1 | 3133.2 | 3399.9 | 4355.4 | 7142.3 | 16880.2 | 29827.1 | 31367.8 | 27084.0 | 22569.4 | 18325.4 |
| 67.5° | 2902.3 | 2890.3 | 3145.1 | 4005.1 | 6445.5 | 15697.8 | 29381.2 | 30961.7 | 27510.0 | 22485.7 | 17823.8 |
| 70° | 2253.4 | 2221.5 | 2317.1 | 2759.0 | 3754.3 | 10152.0 | 25145.2 | 28441.6 | 26626.2 | 20399.6 | 14232.7 |
| 72.5° | 1628.3 | 1664.1 | 1815.4 | 2265.3 | 2946.1 | 5462.2 | 19165.4 | 22999.3 | 22238.9 | 15375.3 | 9045.3 |
| 75° | 1134.6 | 1166.5 | 1409.3 | 1847.3 | 2703.2 | 3312.3 | 12958.8 | 16681.2 | 15490.8 | 8487.9 | 3853.8 |
| 77.5° | 593.2 | 633.0 | 899.7 | 1477.0 | 2456.4 | 2563.9 | 7743.4 | 10578.0 | 8209.2 | 3021.7 | 1063.0 |
| 80° | 274.7 | 294.6 | 449.9 | 1047.1 | 2054.3 | 2253.4 | 4514.7 | 5884.2 | 3284.5 | 676.8 | 366.3 |
| 82.5° | 119.4 | 131.4 | 207.0 | 601.2 | 1457.1 | 1970.7 | 2794.8 | 3085.4 | 1190.4 | 219.0 | 226.9 |
| 85° | 23.9 | 27.9 | 79.6 | 318.5 | 704.7 | 1194.4 | 1962.7 | 1831.3 | 597.2 | 107.5 | 179.2 |
| 87.5° | 0.0 | 0.0 | 19.9 | 91.6 | 191.1 | 354.3 | 832.1 | 832.1 | 183.1 | 55.7 | 67.7 |
| 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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CATALOG NUMBER: IFLD-L-SA7D-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 | 8495.9 |
| 2.5° | 8499.8 | 8356.5 | 8042.0 | 7751.4 | 7544.4 | 7309.5 | 6998.9 | 6859.6 | 6807.8 | 6736.2 | 6628.7 |
| 5° | 8276.9 | 8101.7 | 7564.3 | 7022.8 | 6429.6 | 5979.7 | 5502.0 | 5223.3 | 5012.3 | 4880.9 | 4837.1 |
| 7.5° | 7962.4 | 7604.1 | 6879.5 | 6011.6 | 5243.2 | 4574.4 | 3849.8 | 3360.1 | 3045.6 | 2918.2 | 2798.8 |
| 10° | 7711.6 | 7245.8 | 6143.0 | 5064.1 | 4040.9 | 3061.5 | 2245.4 | 1815.4 | 1489.0 | 1365.5 | 1349.6 |
| 12.5° | 7385.1 | 6827.7 | 5454.2 | 4096.6 | 2810.7 | 1823.4 | 1242.1 | 1078.9 | 987.3 | 971.4 | 959.5 |
| 15° | 7114.4 | 6449.5 | 4801.3 | 3173.0 | 1819.4 | 1138.6 | 967.4 | 927.6 | 903.7 | 895.8 | 899.7 |
| 17.5° | 6931.2 | 6043.4 | 4132.5 | 2309.1 | 1198.3 | 931.6 | 891.8 | 867.9 | 856.0 | 852.0 | 840.0 |
| 20° | 6569.0 | 5701.1 | 3471.6 | 1616.4 | 935.6 | 859.9 | 828.1 | 808.2 | 796.2 | 792.3 | 788.3 |
| 22.5° | 6361.9 | 5267.1 | 2810.7 | 1126.7 | 832.1 | 780.3 | 756.4 | 740.5 | 720.6 | 708.7 | 704.7 |
| 25° | 6154.9 | 4948.6 | 2221.5 | 875.9 | 756.4 | 720.6 | 684.8 | 664.9 | 633.0 | 617.1 | 613.1 |
| 27.5° | 5912.1 | 4634.1 | 1711.9 | 760.4 | 680.8 | 645.0 | 609.1 | 577.3 | 537.5 | 521.5 | 513.6 |
| 30° | 5772.7 | 4327.6 | 1289.9 | 680.8 | 625.0 | 577.3 | 533.5 | 493.7 | 449.9 | 422.0 | 414.0 |
| 32.5° | 5701.1 | 4048.9 | 967.4 | 621.1 | 565.3 | 513.6 | 457.8 | 410.1 | 370.3 | 346.4 | 342.4 |
| 35° | 5613.5 | 3778.1 | 760.4 | 565.3 | 509.6 | 453.9 | 398.1 | 350.3 | 310.5 | 290.6 | 282.7 |
| 37.5° | 5705.0 | 3618.9 | 633.0 | 521.5 | 465.8 | 402.1 | 342.4 | 294.6 | 262.8 | 242.9 | 238.9 |
| 40° | 5955.9 | 3487.5 | 549.4 | 481.7 | 422.0 | 354.3 | 298.6 | 250.8 | 222.9 | 207.0 | 199.1 |
| 42.5° | 6342.0 | 3487.5 | 497.6 | 441.9 | 382.2 | 310.5 | 254.8 | 219.0 | 191.1 | 175.2 | 171.2 |
| 45° | 7042.7 | 3595.0 | 453.9 | 402.1 | 334.4 | 266.7 | 219.0 | 183.1 | 155.3 | 139.3 | 135.4 |
| 47.5° | 8026.1 | 3841.8 | 418.0 | 366.3 | 298.6 | 234.9 | 191.1 | 155.3 | 127.4 | 111.5 | 107.5 |
| 50° | 9347.8 | 4403.2 | 382.2 | 322.5 | 266.7 | 203.0 | 159.2 | 123.4 | 99.5 | 83.6 | 79.6 |
| 52.5° | 10996.0 | 5199.4 | 346.4 | 298.6 | 226.9 | 171.2 | 127.4 | 99.5 | 75.6 | 63.7 | 59.7 |
| 55° | 12739.8 | 6174.8 | 302.6 | 266.7 | 195.1 | 143.3 | 103.5 | 75.6 | 55.7 | 47.8 | 43.8 |
| 57.5° | 14495.5 | 6927.3 | 266.7 | 230.9 | 159.2 | 115.5 | 83.6 | 59.7 | 39.8 | 31.8 | 27.9 |
| 60° | 15427.1 | 6998.9 | 230.9 | 191.1 | 127.4 | 91.6 | 63.7 | 43.8 | 27.9 | 19.9 | 15.9 |
| 62.5° | 15570.4 | 6361.9 | 199.1 | 155.3 | 103.5 | 71.7 | 43.8 | 31.8 | 15.9 | 8.0 | 8.0 |
| 65° | 14833.9 | 5302.9 | 171.2 | 123.4 | 79.6 | 51.8 | 31.8 | 19.9 | 8.0 | 4.0 | 0.0 |
| 67° | 13639.5 | 4443.0 | 147.3 | 103.5 | 63.7 | 39.8 | 23.9 | 11.9 | 4.0 | 0.0 | 0.0 |
| 67.5° | 13177.7 | 4204.1 | 139.3 | 95.5 | 59.7 | 35.8 | 19.9 | 11.9 | 4.0 | 0.0 | 0.0 |
| 70° | 10227.7 | 3001.8 | 103.5 | 67.7 | 43.8 | 27.9 | 15.9 | 8.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6266.4 | 1755.7 | 79.6 | 47.8 | 31.8 | 19.9 | 11.9 | 4.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2627.6 | 605.1 | 67.7 | 35.8 | 23.9 | 11.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 684.8 | 226.9 | 47.8 | 23.9 | 15.9 | 11.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 80° | 278.7 | 103.5 | 31.8 | 15.9 | 15.9 | 11.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 183.1 | 47.8 | 19.9 | 15.9 | 11.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 139.3 | 27.9 | 11.9 | 11.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 59.7 | 15.9 | 11.9 | 8.0 | 8.0 | 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)