

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: P637211

Luminaire Tested: **IFLD-S-SA6A-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637211
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19730.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

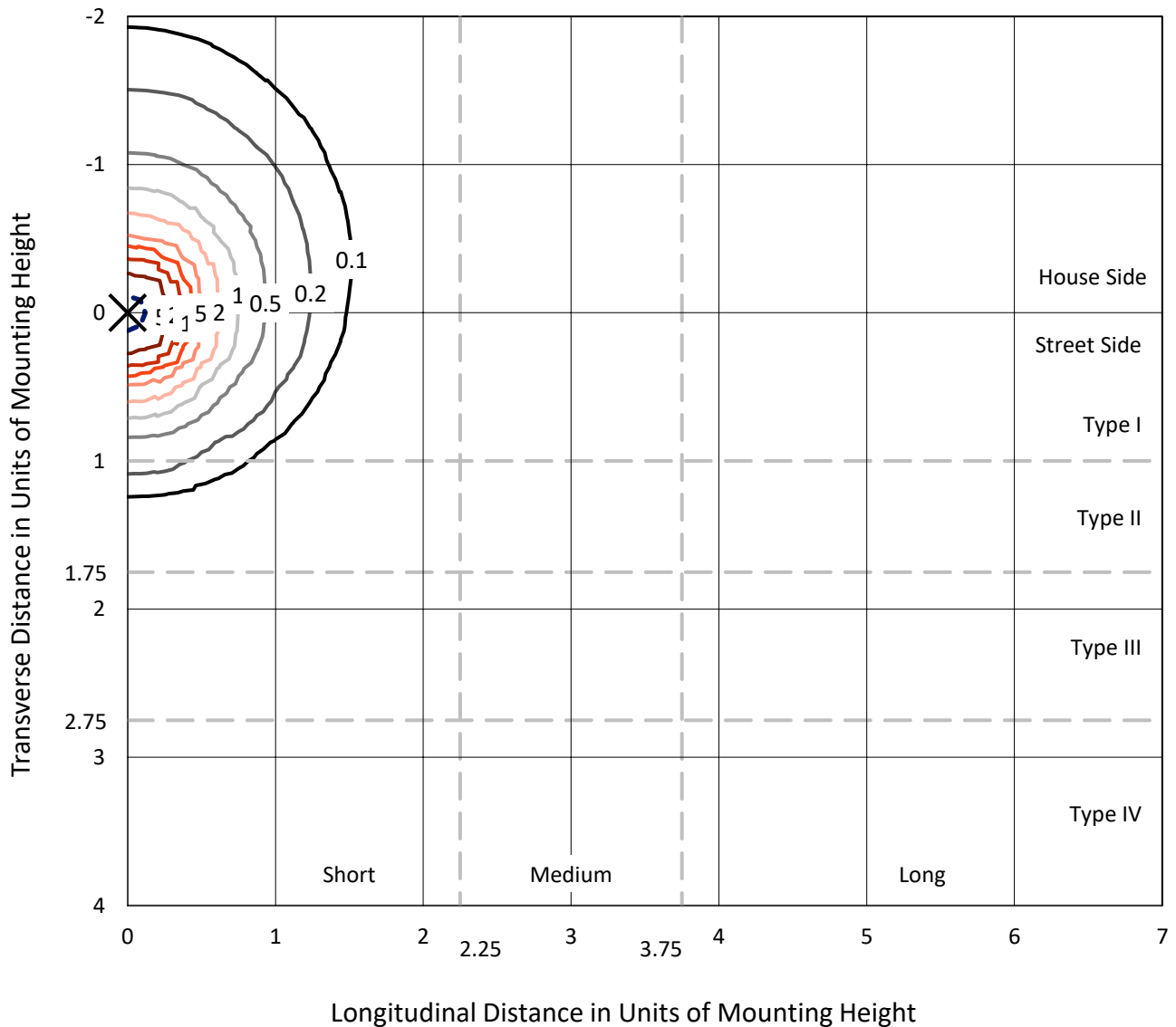
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

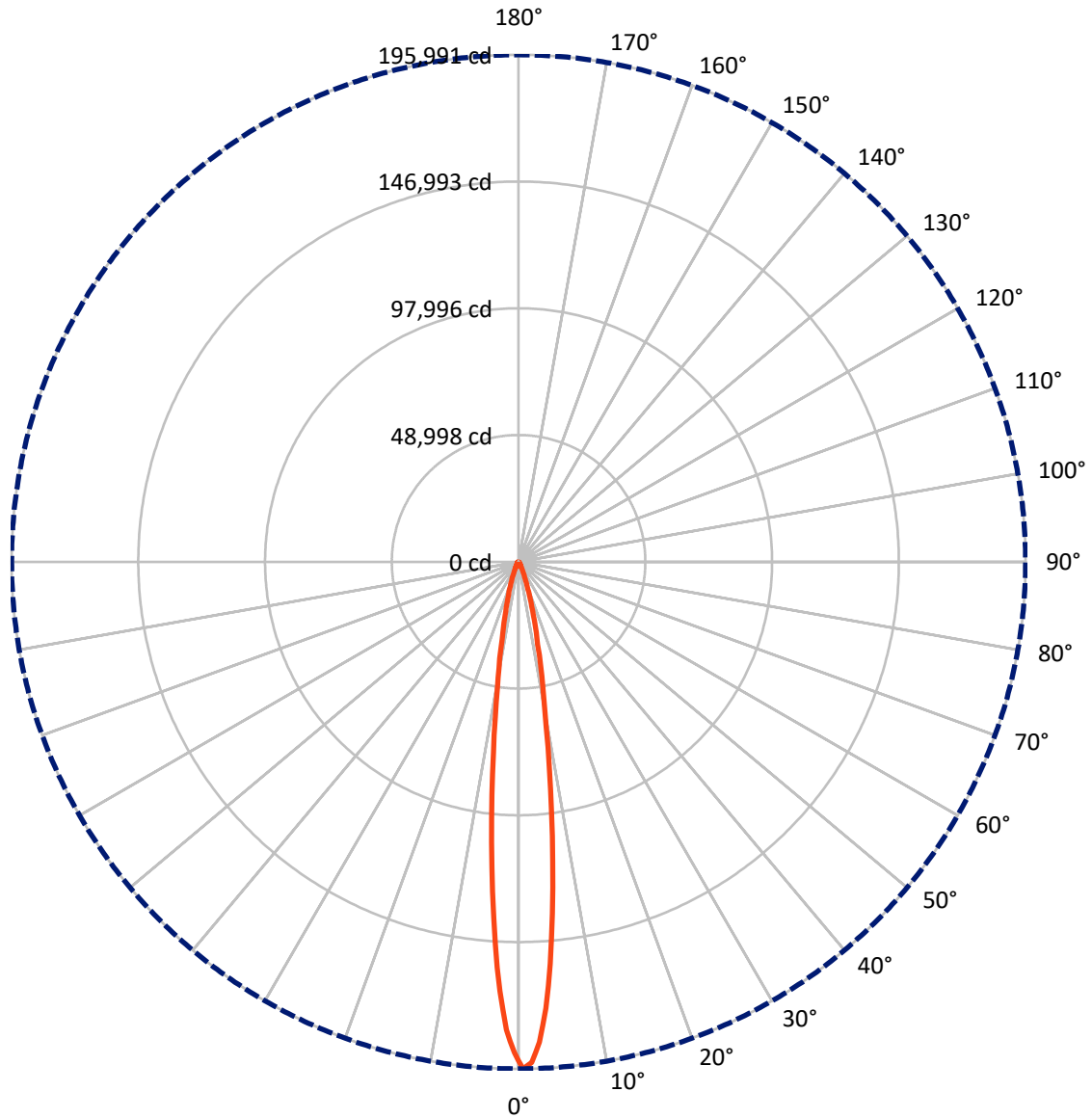
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 490 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10105.8 | 0.0 | 10105.8 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 9625.0 | 0.0 | 9625.0 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 19730.8 | 0.0 | 19730.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 9960.7 | 50.5 |
| 10°-20° | 6376.8 | 32.3 |
| 20°-30° | 1916.7 | 9.7 |
| 30°-40° | 624.1 | 3.2 |
| 40°-50° | 363.1 | 1.8 |
| 50°-60° | 241.2 | 1.2 |
| 60°-70° | 145.2 | 0.7 |
| 70°-80° | 74.6 | 0.4 |
| 80°-90° | 28.3 | 0.1 |
| 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° | 19730.8 | 100.0 |
| 0°-180° | 19730.8 | 100.0 |

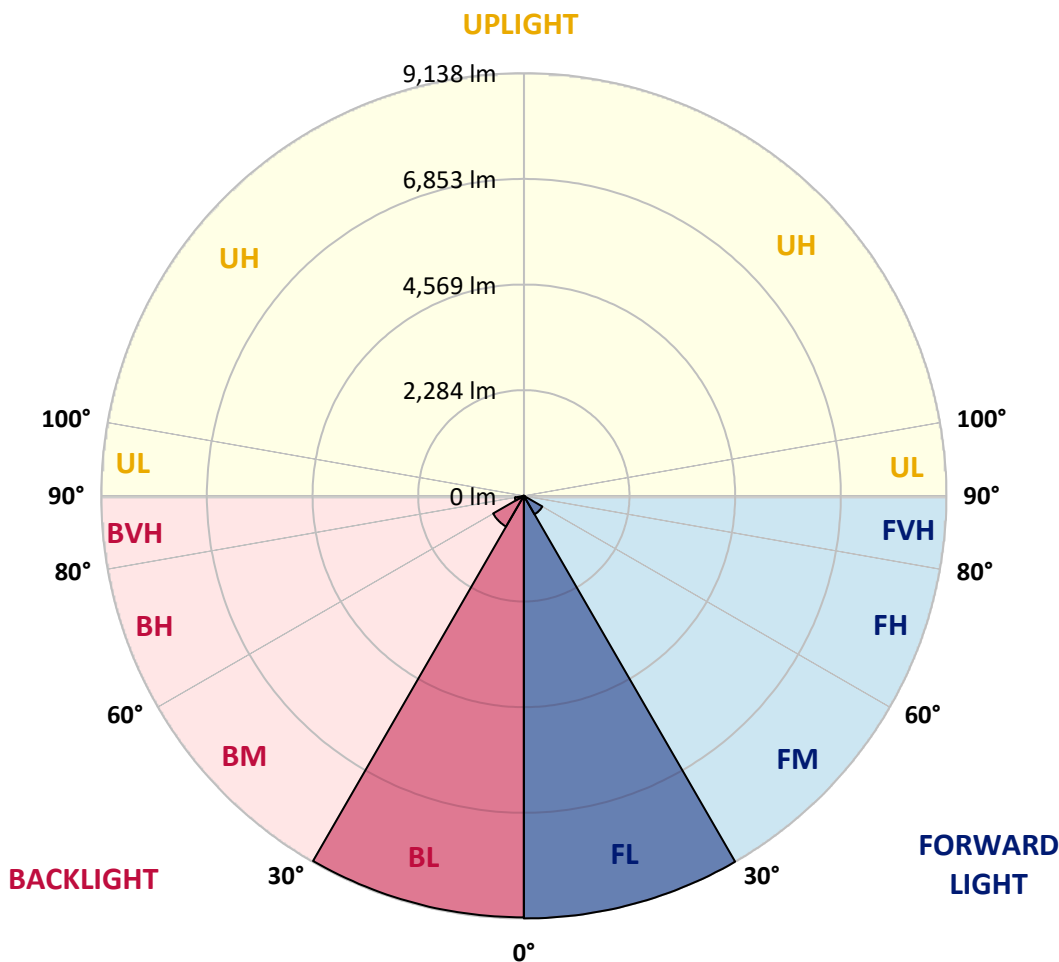


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 9138.0 | 46.3 | | | |
| FM (30°-60°) | 461.1 | 2.3 | | | |
| FH (60°-80°) | 21.7 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 4.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 9116.3 | 46.2 | B5 | | |
| BM (30°-60°) | 767.3 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 198.1 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 24.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 |
| 1° | 193644.3 | 193053.3 | 191527.6 | 192612.8 | 193567.0 | 193289.7 | 193270.4 | 193167.2 | 193023.3 | 194153.6 |
| 2° | 185903.6 | 185521.1 | 183264.6 | 184195.2 | 185551.2 | 184562.6 | 185181.6 | 184637.9 | 184648.6 | 185998.2 |
| 3° | 172854.9 | 173063.3 | 169463.8 | 171155.0 | 173039.7 | 170643.6 | 171387.1 | 172784.0 | 171320.5 | 170880.0 |
| 4° | 155895.0 | 154085.5 | 152119.2 | 153838.4 | 154326.2 | 152931.5 | 154302.6 | 156013.2 | 153980.2 | 154070.5 |
| 5° | 136532.5 | 135195.8 | 132868.4 | 133930.0 | 132720.1 | 133160.7 | 135215.1 | 135920.0 | 134501.7 | 132715.8 |
| 6° | 116624.1 | 115674.3 | 112764.5 | 114294.6 | 113864.8 | 113615.5 | 116209.4 | 114060.4 | 114834.0 | 113753.1 |
| 7° | 97008.1 | 95233.0 | 93803.9 | 95269.5 | 95364.1 | 94614.1 | 97981.5 | 97590.4 | 96182.8 | 95856.2 |
| 8° | 80372.6 | 78601.9 | 77392.0 | 78483.7 | 79197.1 | 78019.5 | 79603.3 | 80643.4 | 79543.1 | 79642.0 |
| 9° | 64824.6 | 64513.0 | 62830.3 | 64257.3 | 65033.1 | 63771.6 | 65525.2 | 65901.3 | 64871.9 | 65372.6 |
| 10° | 53226.5 | 52863.3 | 51520.1 | 52098.2 | 53383.3 | 51879.0 | 53561.7 | 53684.2 | 52863.3 | 53097.5 |
| 12.5° | 32892.6 | 32746.5 | 32709.9 | 32793.8 | 32776.6 | 33043.0 | 33472.8 | 32982.9 | 32918.4 | 32108.2 |
| 15° | 21260.1 | 21477.1 | 21253.6 | 21683.4 | 21745.7 | 21997.2 | 21735.0 | 21339.6 | 20585.3 | 20211.4 |
| 17.5° | 13267.9 | 13545.2 | 13927.7 | 14557.3 | 15187.0 | 15260.1 | 14911.9 | 14447.7 | 14082.4 | 13682.7 |
| 20° | 7633.3 | 7768.6 | 7710.6 | 8464.9 | 10093.9 | 10536.6 | 10087.4 | 9599.6 | 9159.0 | 8755.0 |
| 22.5° | 4742.8 | 4693.4 | 4783.7 | 5037.3 | 5568.1 | 6937.0 | 6569.5 | 6081.7 | 5761.5 | 5428.4 |
| 25° | 2907.6 | 2961.3 | 2926.9 | 3066.6 | 3305.2 | 3885.4 | 3969.2 | 3758.6 | 3595.3 | 3423.4 |
| 27.5° | 1871.8 | 1871.8 | 1886.8 | 1964.2 | 2127.5 | 2108.2 | 2555.2 | 2391.8 | 2303.7 | 2219.9 |
| 30° | 1300.1 | 1304.4 | 1304.4 | 1349.6 | 1386.1 | 1321.6 | 1437.7 | 1648.3 | 1607.5 | 1543.0 |
| 32.5° | 964.9 | 977.8 | 988.5 | 1012.2 | 982.1 | 913.3 | 941.3 | 1186.2 | 1162.6 | 1139.0 |
| 35° | 735.0 | 745.7 | 771.5 | 784.4 | 741.4 | 698.4 | 672.6 | 872.5 | 883.2 | 876.8 |
| 37.5° | 535.1 | 541.5 | 588.8 | 638.3 | 588.8 | 550.1 | 535.1 | 670.5 | 722.1 | 715.6 |
| 40° | 410.5 | 412.6 | 421.2 | 477.1 | 477.1 | 447.0 | 451.3 | 500.7 | 591.0 | 591.0 |
| 42.5° | 352.4 | 352.4 | 361.0 | 352.4 | 354.6 | 386.8 | 397.6 | 404.0 | 500.7 | 500.7 |
| 45° | 305.2 | 305.2 | 309.5 | 288.0 | 266.5 | 333.1 | 341.7 | 343.8 | 421.2 | 431.9 |
| 47.5° | 255.7 | 255.7 | 264.3 | 236.4 | 225.6 | 264.3 | 288.0 | 294.4 | 363.2 | 371.8 |
| 50° | 189.1 | 191.3 | 217.0 | 193.4 | 199.9 | 204.2 | 249.3 | 253.6 | 307.3 | 326.6 |
| 52.5° | 126.8 | 126.8 | 131.1 | 150.4 | 174.1 | 167.6 | 202.0 | 217.0 | 245.0 | 270.8 |
| 55° | 103.2 | 103.2 | 101.0 | 96.7 | 128.9 | 139.7 | 148.3 | 180.5 | 199.9 | 232.1 |
| 57.5° | 70.9 | 75.2 | 68.8 | 79.5 | 83.8 | 105.3 | 111.7 | 141.8 | 152.6 | 195.6 |
| 60° | 8.6 | 10.7 | 15.0 | 58.0 | 55.9 | 70.9 | 83.8 | 111.7 | 124.6 | 150.4 |
| 62.5° | 2.1 | 2.1 | 4.3 | 10.7 | 38.7 | 47.3 | 66.6 | 77.4 | 90.3 | 116.0 |
| 65° | 0.0 | 0.0 | 2.1 | 4.3 | 8.6 | 25.8 | 34.4 | 45.1 | 64.5 | 81.7 |
| 67.5° | 0.0 | 0.0 | 2.1 | 4.3 | 4.3 | 10.7 | 17.2 | 27.9 | 34.4 | 60.2 |
| 70° | 0.0 | 0.0 | 2.1 | 4.3 | 4.3 | 8.6 | 10.7 | 12.9 | 23.6 | 32.2 |
| 72.5° | 0.0 | 0.0 | 2.1 | 4.3 | 6.4 | 8.6 | 10.7 | 10.7 | 10.7 | 21.5 |
| 75° | 0.0 | 0.0 | 2.1 | 4.3 | 6.4 | 8.6 | 10.7 | 10.7 | 8.6 | 8.6 |
| 77.5° | 0.0 | 0.0 | 2.1 | 4.3 | 8.6 | 10.7 | 12.9 | 10.7 | 6.4 | 6.4 |
| 80° | 0.0 | 0.0 | 2.1 | 6.4 | 10.7 | 15.0 | 17.2 | 12.9 | 6.4 | 4.3 |
| 82.5° | 0.0 | 0.0 | 4.3 | 8.6 | 12.9 | 17.2 | 23.6 | 19.3 | 8.6 | 4.3 |
| 85° | 0.0 | 0.0 | 2.1 | 6.4 | 12.9 | 17.2 | 34.4 | 23.6 | 10.7 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 12.9 | 8.6 | 4.3 | 2.1 |
| 90° | 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-S-SA6A-827-U-33-VI

CANDELA DISTRIBUTION (continued):

| 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 195991.0 | 0° | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 | 195991.0 |
| 192849.2 | 1° | 194196.6 | 194332.0 | 193889.3 | 194574.8 | 194334.2 | 192924.4 | 192458.1 | 191905.8 |
| 185205.2 | 2° | 184637.9 | 185327.7 | 185362.1 | 186122.8 | 186112.1 | 184468.1 | 183958.8 | 184897.9 |
| 171773.9 | 3° | 171253.9 | 172057.6 | 171333.4 | 172685.1 | 172279.0 | 170284.7 | 169766.8 | 170832.7 |
| 154783.9 | 4° | 154321.9 | 154169.3 | 153920.0 | 153150.7 | 154098.4 | 152738.1 | 151713.0 | 153159.3 |
| 135084.0 | 5° | 134813.3 | 134473.7 | 133988.1 | 133760.3 | 134465.1 | 133594.8 | 131486.6 | 133599.1 |
| 115708.7 | 6° | 115850.5 | 114389.2 | 114318.3 | 114191.5 | 114262.4 | 111825.4 | 111971.5 | 113544.6 |
| 94732.3 | 7° | 95733.7 | 96002.3 | 95454.3 | 96333.3 | 95662.8 | 94012.3 | 93376.2 | 95033.1 |
| 80076.1 | 8° | 79517.3 | 79177.8 | 78758.7 | 80071.8 | 78909.2 | 77826.1 | 77084.7 | 78393.4 |
| 65454.3 | 9° | 65331.8 | 64745.1 | 64319.6 | 64253.0 | 64433.5 | 62400.5 | 62813.1 | 63803.8 |
| 53226.5 | 10° | 53245.8 | 52283.0 | 52517.3 | 52579.6 | 52381.9 | 51049.5 | 51062.4 | 51404.1 |
| 32645.5 | 12.5° | 32529.4 | 32056.6 | 32174.8 | 32239.3 | 32641.2 | 32172.7 | 31510.8 | 31033.7 |
| 20583.1 | 15° | 20445.6 | 20106.1 | 20800.2 | 21266.5 | 21172.0 | 20755.1 | 20443.4 | 20011.5 |
| 13682.7 | 17.5° | 13555.9 | 14000.7 | 14002.9 | 14428.4 | 14471.4 | 14054.5 | 13813.8 | 13424.8 |
| 8899.0 | 20° | 8866.8 | 9051.6 | 9436.3 | 9737.1 | 9911.2 | 9593.1 | 9305.2 | 9038.7 |
| 5548.7 | 22.5° | 5548.7 | 5871.1 | 6111.8 | 6502.9 | 6661.9 | 6429.8 | 6225.7 | 6008.6 |
| 3464.2 | 25° | 3406.2 | 3636.1 | 3836.0 | 4175.5 | 4392.6 | 4280.8 | 4093.8 | 3941.3 |
| 2237.1 | 27.5° | 2271.5 | 2368.2 | 2467.1 | 2701.3 | 2926.9 | 2864.6 | 2789.4 | 2697.0 |
| 1577.4 | 30° | 1601.0 | 1609.6 | 1714.9 | 1846.0 | 1996.4 | 2035.1 | 2000.7 | 1953.4 |
| 1158.3 | 32.5° | 1179.8 | 1214.2 | 1263.6 | 1345.3 | 1446.3 | 1538.7 | 1521.5 | 1500.0 |
| 885.4 | 35° | 911.2 | 962.8 | 1003.6 | 1065.9 | 1119.6 | 1207.7 | 1222.8 | 1216.3 |
| 728.5 | 37.5° | 743.6 | 788.7 | 829.5 | 866.0 | 911.2 | 971.3 | 1018.6 | 1020.8 |
| 601.7 | 40° | 616.8 | 657.6 | 711.3 | 739.3 | 771.5 | 816.6 | 874.6 | 878.9 |
| 509.3 | 42.5° | 520.1 | 558.7 | 612.5 | 646.8 | 670.5 | 713.5 | 771.5 | 780.1 |
| 436.2 | 45° | 447.0 | 470.6 | 526.5 | 567.3 | 591.0 | 618.9 | 681.2 | 689.8 |
| 376.1 | 47.5° | 389.0 | 412.6 | 447.0 | 505.0 | 526.5 | 552.3 | 601.7 | 616.8 |
| 333.1 | 50° | 341.7 | 365.3 | 395.4 | 447.0 | 479.2 | 500.7 | 541.5 | 563.0 |
| 290.1 | 52.5° | 303.0 | 326.6 | 358.9 | 399.7 | 436.2 | 455.6 | 494.3 | 522.2 |
| 236.4 | 55° | 253.6 | 294.4 | 318.1 | 354.6 | 404.0 | 421.2 | 451.3 | 487.8 |
| 206.3 | 57.5° | 221.3 | 255.7 | 290.1 | 320.2 | 369.6 | 391.1 | 421.2 | 455.6 |
| 163.3 | 60° | 187.0 | 219.2 | 260.0 | 285.8 | 333.1 | 361.0 | 393.3 | 425.5 |
| 124.6 | 62.5° | 148.3 | 191.3 | 219.2 | 255.7 | 300.9 | 337.4 | 363.2 | 395.4 |
| 96.7 | 65° | 109.6 | 156.9 | 189.1 | 227.8 | 270.8 | 309.5 | 330.9 | 365.3 |
| 68.8 | 67.5° | 79.5 | 122.5 | 161.2 | 197.7 | 238.5 | 277.2 | 298.7 | 328.8 |
| 43.0 | 70° | 62.3 | 90.3 | 133.2 | 165.5 | 208.5 | 240.7 | 264.3 | 283.7 |
| 27.9 | 72.5° | 36.5 | 68.8 | 107.5 | 144.0 | 182.7 | 204.2 | 221.3 | 238.5 |
| 12.9 | 75° | 23.6 | 53.7 | 88.1 | 120.3 | 148.3 | 167.6 | 182.7 | 197.7 |
| 6.4 | 77.5° | 15.0 | 38.7 | 70.9 | 101.0 | 113.9 | 137.5 | 150.4 | 159.0 |
| 4.3 | 80° | 8.6 | 30.1 | 62.3 | 81.7 | 92.4 | 107.5 | 120.3 | 131.1 |
| 4.3 | 82.5° | 6.4 | 25.8 | 51.6 | 68.8 | 68.8 | 86.0 | 92.4 | 92.4 |
| 2.1 | 85° | 4.3 | 21.5 | 40.8 | 64.5 | 51.6 | 64.5 | 60.2 | 60.2 |
| 2.1 | 87.5° | 4.3 | 15.0 | 19.3 | 27.9 | 23.6 | 27.9 | 27.9 | 32.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
195991.0
189718.1
180920.1
166098.4
147924.3
128033.2
108984.4
90526.7
74656.3
60709.3
49078.9
30743.6
19790.1
13328.1
8946.3
5892.6
3853.2
2643.3
1921.2
1482.8
1194.8
1005.7
872.5
773.6
687.7
618.9
565.2
522.2
490.0
457.7
434.1
410.5
371.8
330.9
290.1
242.8
197.7
154.7
118.2
86.0
58.0
32.2
0.0

(END OF REPORT)