

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: P637459

Luminaire Tested: **IFLD-L-SA8B-760-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40152 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

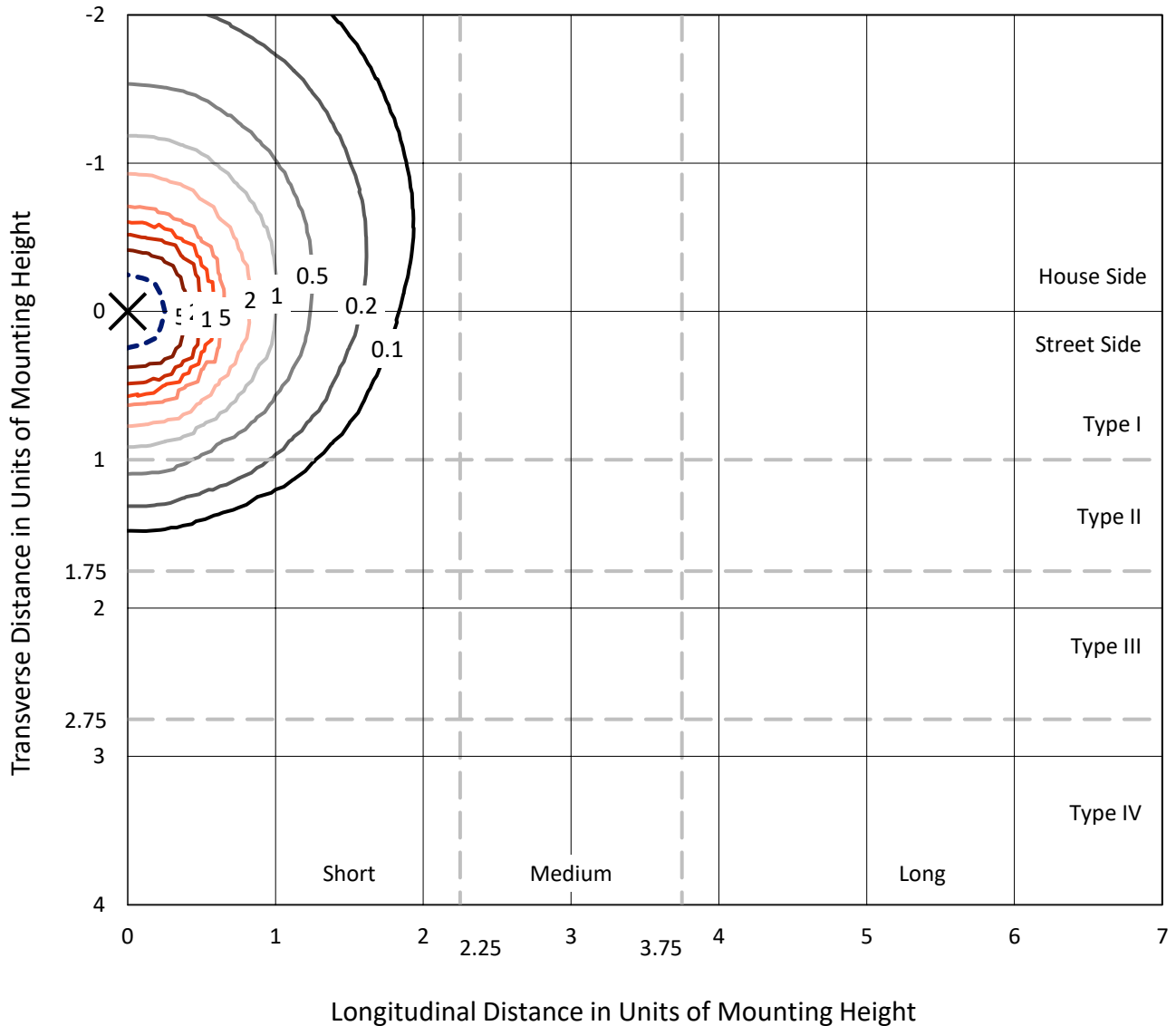
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

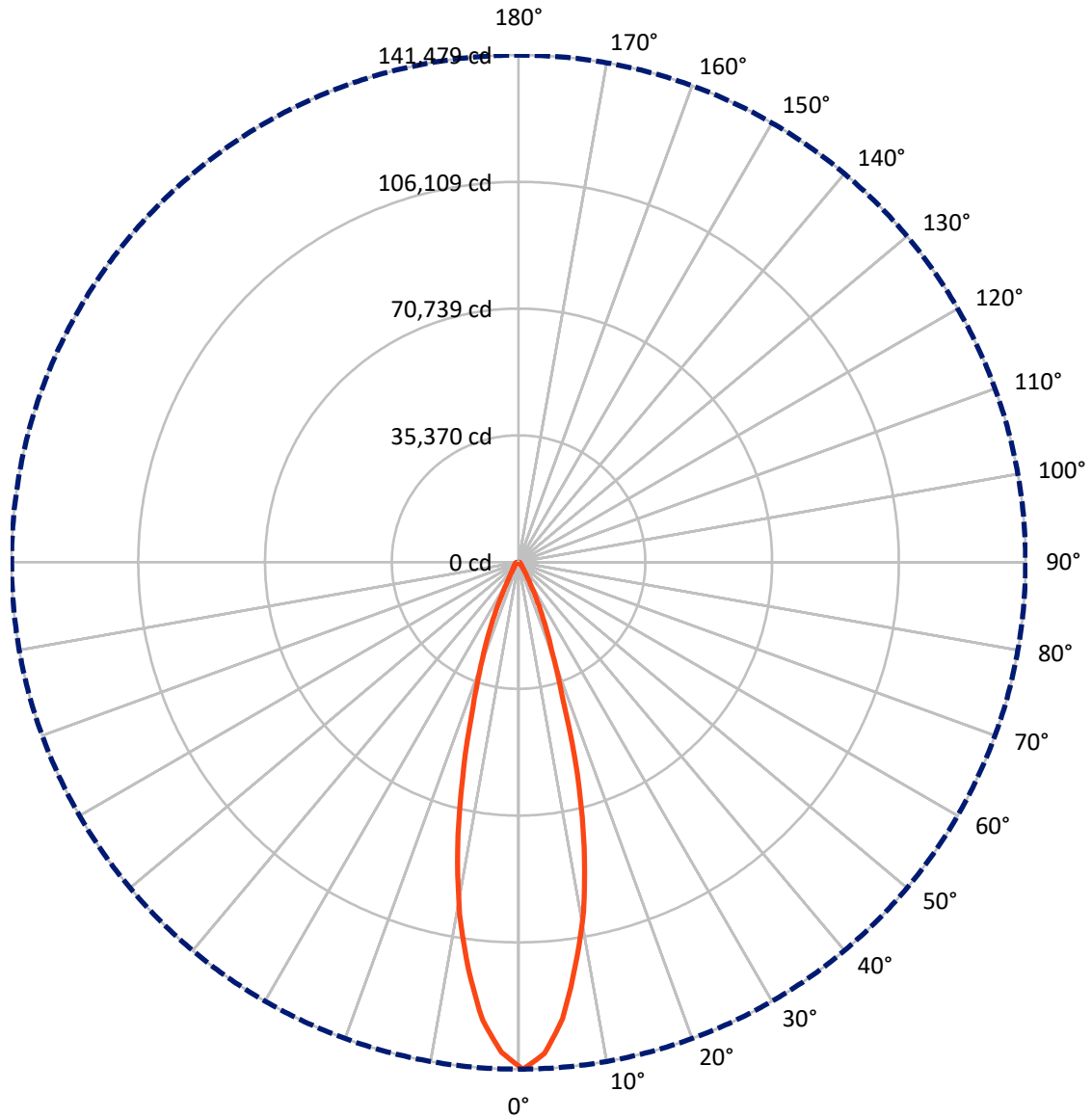
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 353.7 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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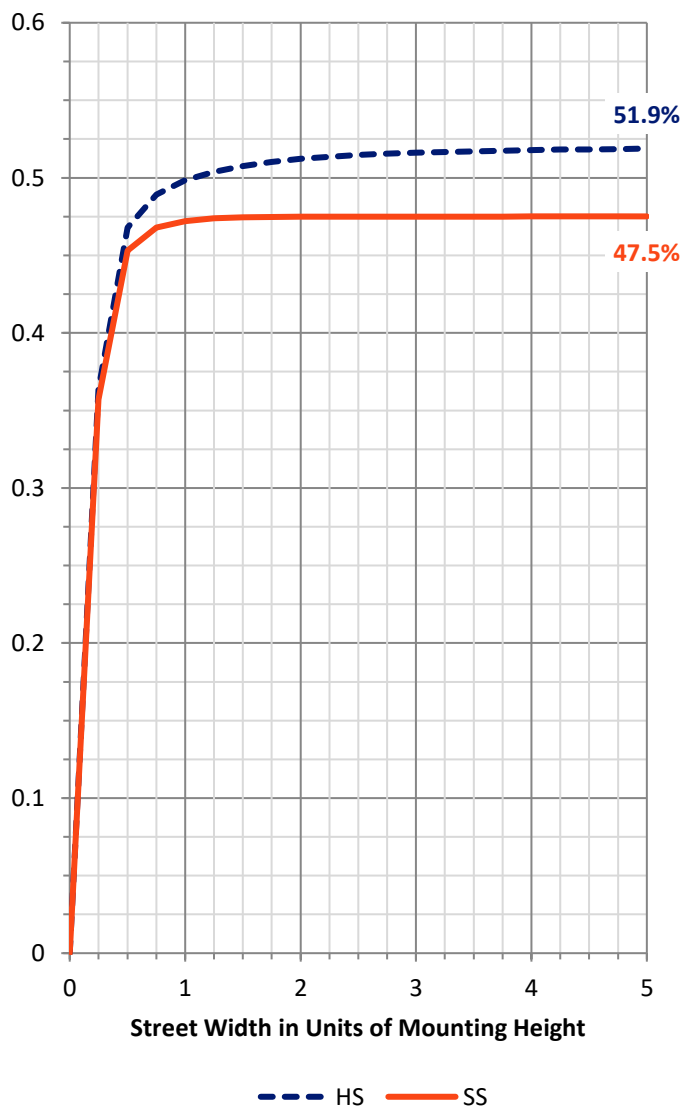
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21170.9 | 0.0 | 21170.9 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 18981.2 | 0.0 | 18981.2 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 40152.0 | 0.0 | 40152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 11418.6 | 28.4 |
| 10°-20° | 17293.4 | 43.1 |
| 20°-30° | 7297.9 | 18.2 |
| 30°-40° | 1903.3 | 4.7 |
| 40°-50° | 962.7 | 2.4 |
| 50°-60° | 629.2 | 1.6 |
| 60°-70° | 377.0 | 0.9 |
| 70°-80° | 198.3 | 0.5 |
| 80°-90° | 71.6 | 0.2 |
| 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° | 40152.0 | 100.0 |
| 0°-180° | 40152.0 | 100.0 |



REPORT NUMBER: P637459

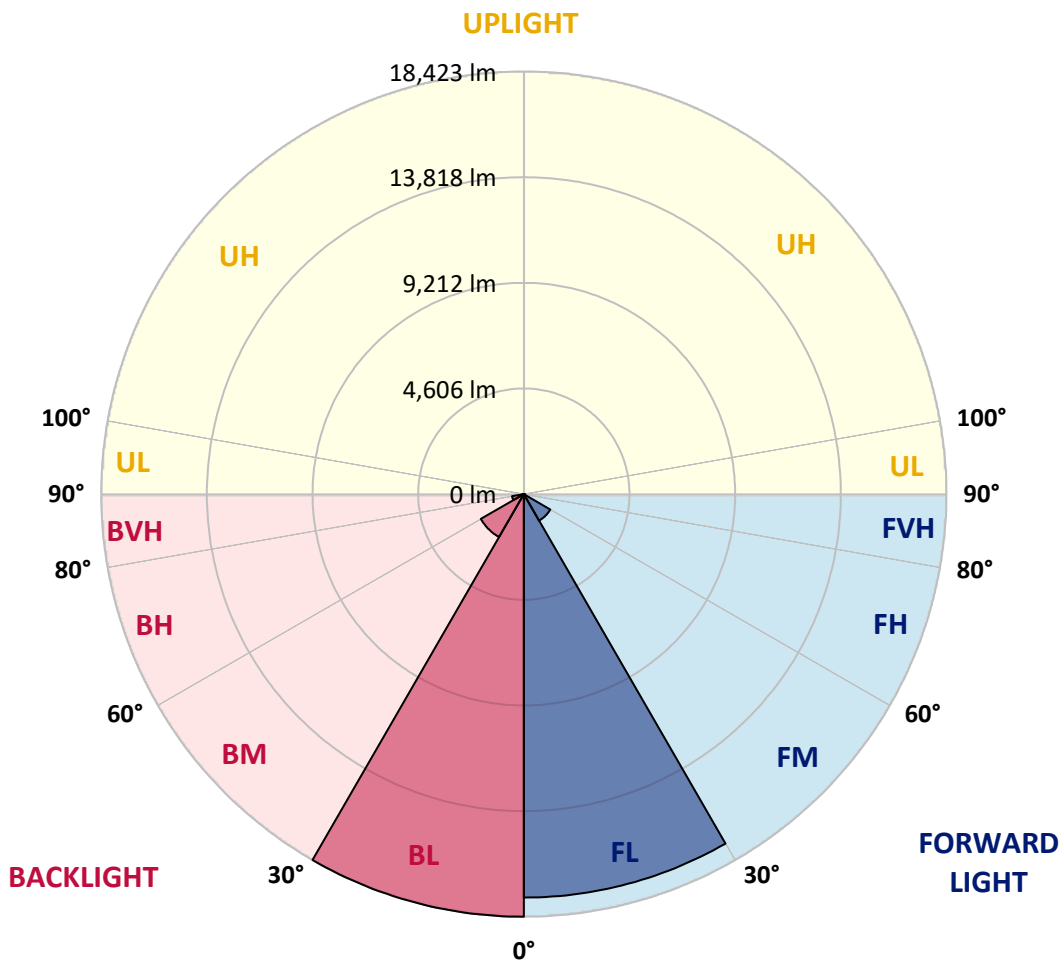
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 17586.3 | 43.8 | | | |
| FM (30°-60°) | 1331.9 | 3.3 | | | |
| FH (60°-80°) | 54.3 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 8.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 18423.5 | 45.9 | B5 | | |
| BM (30°-60°) | 2163.4 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 521.0 | 1.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 62.9 | 0.2 | | | 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° | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 |
| 2.5° | 137357.2 | 137433.9 | 137149.8 | 137763.1 | 137285.1 | 138565.7 | 137929.9 | 138921.9 | 138588.2 | 139142.9 |
| 5° | 127978.2 | 127852.0 | 127770.8 | 128722.2 | 128447.2 | 129822.5 | 128943.2 | 128654.6 | 129547.4 | 129385.1 |
| 7.5° | 113815.1 | 114148.7 | 113959.3 | 114207.3 | 114347.1 | 115916.3 | 116412.3 | 116024.5 | 116038.1 | 116263.5 |
| 10° | 99295.6 | 98804.1 | 98105.2 | 98569.7 | 99552.7 | 100238.0 | 99963.0 | 100531.1 | 100404.9 | 100941.5 |
| 12.5° | 81430.5 | 81818.2 | 81425.9 | 81011.1 | 82729.1 | 82539.7 | 83017.7 | 83328.8 | 82548.7 | 84284.7 |
| 15° | 61337.7 | 61540.7 | 62018.6 | 61987.1 | 63308.2 | 63574.3 | 63511.2 | 63840.3 | 63231.6 | 63520.2 |
| 17.5° | 39405.3 | 40090.7 | 41375.8 | 43549.2 | 45993.2 | 46277.2 | 46205.1 | 45934.5 | 45641.5 | 45316.8 |
| 20° | 26468.6 | 26396.5 | 26860.9 | 27496.7 | 32555.9 | 33895.2 | 33854.6 | 33006.9 | 31780.4 | 31545.9 |
| 22.5° | 18541.6 | 18676.8 | 18613.7 | 19245.0 | 20291.1 | 23984.1 | 23528.7 | 22667.4 | 22266.1 | 22004.6 |
| 25° | 12197.2 | 12147.6 | 12463.2 | 12652.6 | 13549.9 | 14000.9 | 15597.1 | 15276.9 | 14659.2 | 14726.8 |
| 27.5° | 7435.6 | 7498.7 | 7615.9 | 7778.3 | 8414.0 | 8269.8 | 9180.6 | 9302.3 | 9103.9 | 8892.0 |
| 30° | 4563.2 | 4608.3 | 4703.0 | 4820.3 | 5041.2 | 4883.4 | 5135.9 | 5573.3 | 5501.1 | 5352.3 |
| 32.5° | 3097.8 | 3102.3 | 3169.9 | 3215.0 | 3188.0 | 3039.2 | 3120.3 | 3535.2 | 3544.2 | 3530.7 |
| 35° | 2227.5 | 2227.5 | 2290.6 | 2326.7 | 2250.1 | 2128.3 | 2141.8 | 2398.9 | 2511.6 | 2534.1 |
| 37.5° | 1537.6 | 1542.1 | 1650.3 | 1758.6 | 1672.9 | 1641.3 | 1587.2 | 1758.6 | 1938.9 | 1966.0 |
| 40° | 1167.9 | 1163.4 | 1217.5 | 1298.6 | 1307.6 | 1249.0 | 1267.1 | 1375.3 | 1560.2 | 1582.7 |
| 42.5° | 946.9 | 951.4 | 978.5 | 969.5 | 974.0 | 1050.6 | 1077.7 | 1127.3 | 1298.6 | 1339.2 |
| 45° | 798.1 | 802.6 | 816.2 | 771.1 | 753.0 | 870.3 | 906.3 | 933.4 | 1077.7 | 1127.3 |
| 47.5° | 658.3 | 667.4 | 680.9 | 631.3 | 622.3 | 698.9 | 762.0 | 789.1 | 915.4 | 969.5 |
| 50° | 473.5 | 482.5 | 532.1 | 505.0 | 532.1 | 550.1 | 635.8 | 676.4 | 762.0 | 834.2 |
| 52.5° | 342.7 | 351.7 | 365.2 | 369.7 | 437.4 | 446.4 | 509.5 | 572.7 | 613.2 | 694.4 |
| 55° | 270.5 | 279.6 | 270.5 | 261.5 | 320.1 | 369.7 | 392.3 | 459.9 | 491.5 | 586.2 |
| 57.5° | 153.3 | 162.3 | 175.9 | 202.9 | 211.9 | 284.1 | 306.6 | 365.2 | 392.3 | 482.5 |
| 60° | 27.1 | 31.6 | 49.6 | 121.7 | 148.8 | 180.4 | 230.0 | 279.6 | 315.6 | 378.8 |
| 62.5° | 4.5 | 4.5 | 9.0 | 27.1 | 85.7 | 126.3 | 166.8 | 198.4 | 230.0 | 288.6 |
| 65° | 0.0 | 0.0 | 4.5 | 9.0 | 22.5 | 72.1 | 90.2 | 117.2 | 157.8 | 207.4 |
| 67.5° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 27.1 | 40.6 | 72.1 | 90.2 | 139.8 |
| 70° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 18.0 | 22.5 | 31.6 | 54.1 | 85.7 |
| 72.5° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 18.0 | 22.5 | 27.1 | 27.1 | 54.1 |
| 75° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 22.5 | 27.1 | 27.1 | 22.5 | 22.5 |
| 77.5° | 0.0 | 0.0 | 4.5 | 9.0 | 18.0 | 27.1 | 31.6 | 27.1 | 18.0 | 18.0 |
| 80° | 0.0 | 0.0 | 9.0 | 13.5 | 22.5 | 31.6 | 40.6 | 31.6 | 18.0 | 9.0 |
| 82.5° | 0.0 | 0.0 | 9.0 | 18.0 | 22.5 | 36.1 | 49.6 | 40.6 | 18.0 | 9.0 |
| 85° | 0.0 | 0.0 | 4.5 | 13.5 | 27.1 | 36.1 | 49.6 | 36.1 | 18.0 | 4.5 |
| 87.5° | 0.0 | 0.0 | 4.5 | 4.5 | 9.0 | 13.5 | 27.1 | 22.5 | 9.0 | 4.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637459

CATALOG NUMBER: IFLD-L-SA8B-760-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 141478.6 | 0° | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 | 141478.6 |
| 138092.2 | 2.5° | 138885.8 | 139607.3 | 139756.1 | 139557.7 | 139846.3 | 139327.7 | 138930.9 | 137902.8 | 137285.1 |
| 129335.5 | 5° | 130169.7 | 130061.5 | 130814.5 | 131062.5 | 131030.9 | 130634.1 | 130079.5 | 129457.2 | 128853.0 |
| 115826.1 | 7.5° | 116547.6 | 116687.4 | 117372.8 | 117810.1 | 117589.2 | 117093.2 | 116709.9 | 116241.0 | 115835.1 |
| 101135.4 | 10° | 102059.7 | 101099.3 | 101951.5 | 101951.5 | 102542.2 | 101139.9 | 101270.6 | 100089.2 | 100143.4 |
| 84253.2 | 12.5° | 84541.8 | 84889.0 | 85028.7 | 85430.1 | 84740.2 | 83996.1 | 83085.3 | 82904.9 | 82341.3 |
| 62970.1 | 15° | 63876.4 | 64868.4 | 64016.2 | 65472.6 | 64769.2 | 63993.6 | 63853.8 | 62456.0 | 62897.9 |
| 45673.0 | 17.5° | 45447.6 | 46543.3 | 46886.0 | 47720.2 | 47079.9 | 46619.9 | 46038.3 | 45614.4 | 45582.8 |
| 31974.3 | 20° | 32226.8 | 33327.0 | 33579.5 | 34580.5 | 34508.4 | 34364.1 | 33872.6 | 33336.0 | 32754.3 |
| 21765.6 | 22.5° | 22094.8 | 22992.1 | 23830.8 | 25179.0 | 25156.5 | 24732.6 | 24683.0 | 23925.5 | 23939.0 |
| 14704.3 | 25° | 14857.6 | 15511.4 | 15709.8 | 17089.6 | 17242.9 | 17197.8 | 16940.8 | 16237.4 | 16503.4 |
| 8982.2 | 27.5° | 8991.2 | 9563.9 | 10235.7 | 10722.7 | 11182.7 | 11110.5 | 10853.5 | 10461.2 | 10289.8 |
| 5397.4 | 30° | 5541.7 | 5798.7 | 6046.7 | 6632.9 | 6908.0 | 7052.3 | 6930.5 | 6565.3 | 6592.4 |
| 3553.2 | 32.5° | 3629.9 | 3846.3 | 4026.7 | 4396.4 | 4540.7 | 4806.7 | 4757.1 | 4680.5 | 4590.3 |
| 2556.7 | 35° | 2646.9 | 2804.7 | 2926.4 | 3097.8 | 3282.6 | 3508.1 | 3544.2 | 3512.6 | 3476.5 |
| 1975.0 | 37.5° | 2020.1 | 2182.4 | 2322.2 | 2394.4 | 2538.6 | 2714.5 | 2813.7 | 2809.2 | 2782.1 |
| 1609.8 | 40° | 1641.3 | 1763.1 | 1889.3 | 1984.0 | 2083.2 | 2214.0 | 2335.7 | 2349.3 | 2349.3 |
| 1352.7 | 42.5° | 1370.8 | 1474.5 | 1600.7 | 1699.9 | 1772.1 | 1893.8 | 2020.1 | 2029.1 | 2020.1 |
| 1145.3 | 45° | 1172.4 | 1262.6 | 1384.3 | 1501.5 | 1560.2 | 1650.3 | 1772.1 | 1799.1 | 1781.1 |
| 983.0 | 47.5° | 1019.1 | 1100.2 | 1203.9 | 1330.2 | 1393.3 | 1474.5 | 1587.2 | 1618.8 | 1614.3 |
| 847.7 | 50° | 874.8 | 969.5 | 1073.2 | 1176.9 | 1258.0 | 1334.7 | 1442.9 | 1479.0 | 1465.5 |
| 721.5 | 52.5° | 771.1 | 856.7 | 946.9 | 1059.6 | 1154.3 | 1222.0 | 1307.6 | 1370.8 | 1352.7 |
| 608.7 | 55° | 644.8 | 748.5 | 843.2 | 937.9 | 1055.1 | 1127.3 | 1208.4 | 1285.1 | 1267.1 |
| 514.0 | 57.5° | 559.1 | 644.8 | 753.0 | 838.7 | 955.9 | 1041.6 | 1122.8 | 1203.9 | 1199.4 |
| 419.3 | 60° | 468.9 | 559.1 | 662.8 | 753.0 | 861.2 | 955.9 | 1037.1 | 1127.3 | 1136.3 |
| 315.6 | 62.5° | 369.7 | 478.0 | 568.2 | 671.9 | 780.1 | 883.8 | 955.9 | 1046.1 | 1059.6 |
| 239.0 | 65° | 279.6 | 392.3 | 491.5 | 590.7 | 698.9 | 811.6 | 874.8 | 951.4 | 965.0 |
| 175.9 | 67.5° | 207.4 | 302.1 | 419.3 | 509.5 | 622.3 | 730.5 | 789.1 | 852.2 | 874.8 |
| 108.2 | 70° | 157.8 | 230.0 | 351.7 | 437.4 | 554.6 | 640.3 | 703.4 | 757.5 | 775.6 |
| 72.1 | 72.5° | 99.2 | 180.4 | 284.1 | 374.3 | 478.0 | 554.6 | 599.7 | 631.3 | 658.3 |
| 40.6 | 75° | 67.6 | 139.8 | 230.0 | 320.1 | 396.8 | 455.4 | 496.0 | 523.1 | 545.6 |
| 18.0 | 77.5° | 40.6 | 108.2 | 189.4 | 266.0 | 315.6 | 360.7 | 401.3 | 419.3 | 432.9 |
| 13.5 | 80° | 22.5 | 81.2 | 157.8 | 216.4 | 248.0 | 279.6 | 311.1 | 333.7 | 342.7 |
| 9.0 | 82.5° | 13.5 | 63.1 | 126.3 | 166.8 | 180.4 | 211.9 | 243.5 | 257.0 | 257.0 |
| 4.5 | 85° | 9.0 | 45.1 | 85.7 | 121.7 | 130.8 | 153.3 | 162.3 | 171.3 | 180.4 |
| 4.5 | 87.5° | 9.0 | 27.1 | 54.1 | 67.6 | 72.1 | 81.2 | 85.7 | 94.7 | 103.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
141478.6
136829.7
128176.6
114459.9
99615.8
81827.3
62456.0
44744.1
32501.8
23677.5
16084.1
10141.0
6475.1
4558.7
3463.0
2768.6
2322.2
2011.1
1781.1
1605.3
1456.5
1348.2
1276.1
1203.9
1140.8
1068.7
978.5
883.8
784.6
653.8
541.1
428.4
333.7
252.5
175.9
99.2
0.0

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