

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: P637515

Luminaire Tested: **IFLD-L-SA7E-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43263.1 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

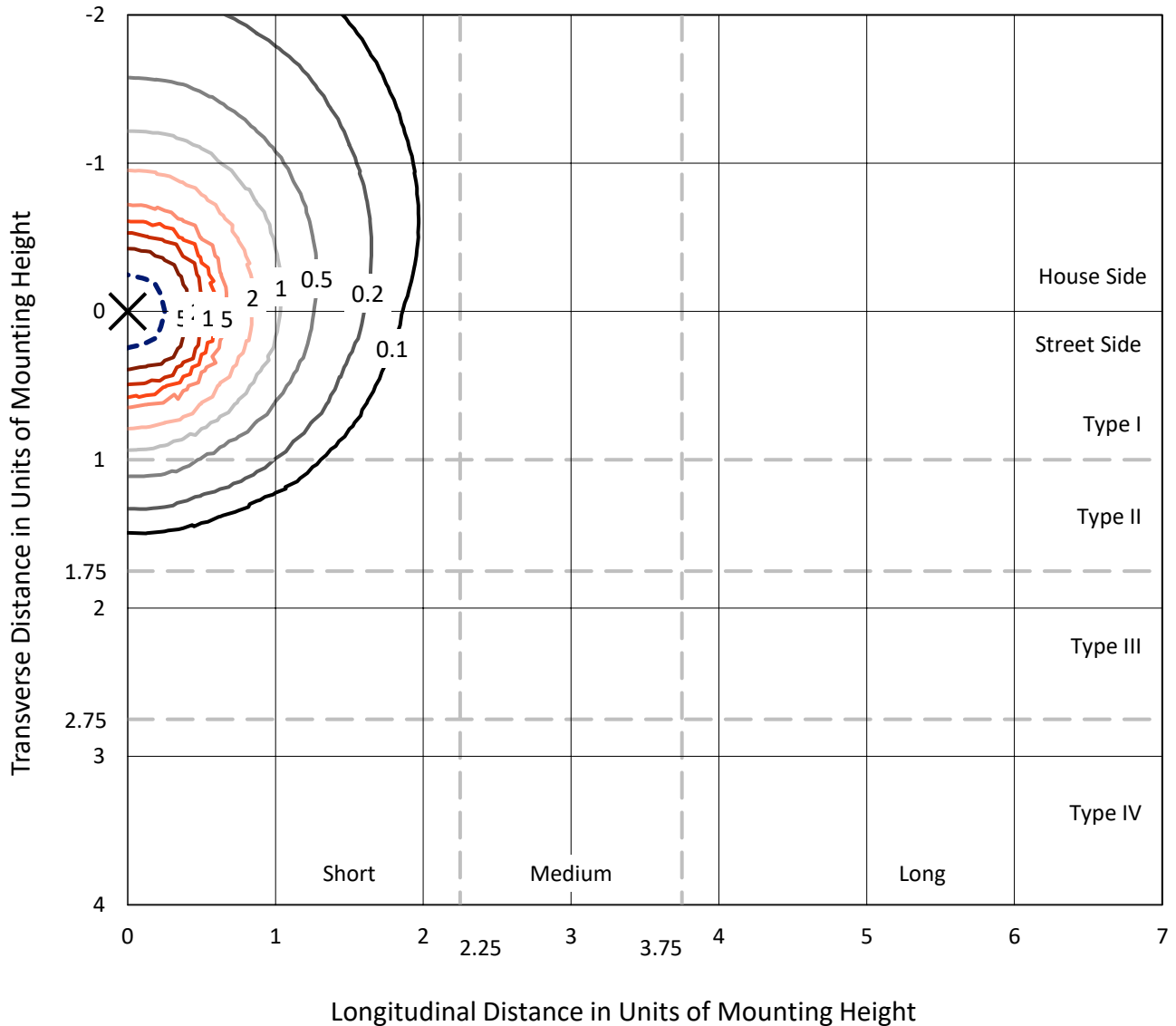
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

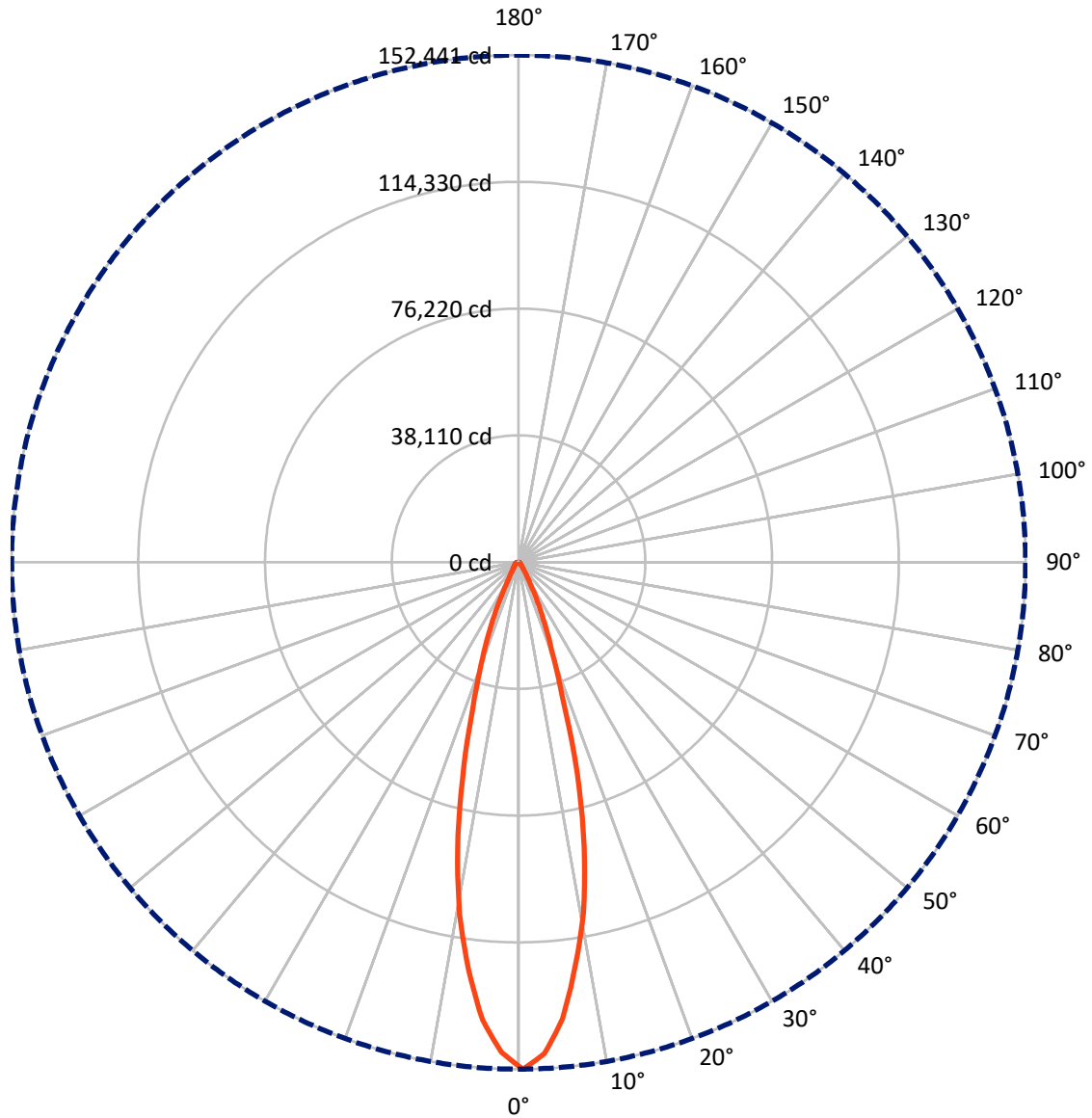
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 381.1 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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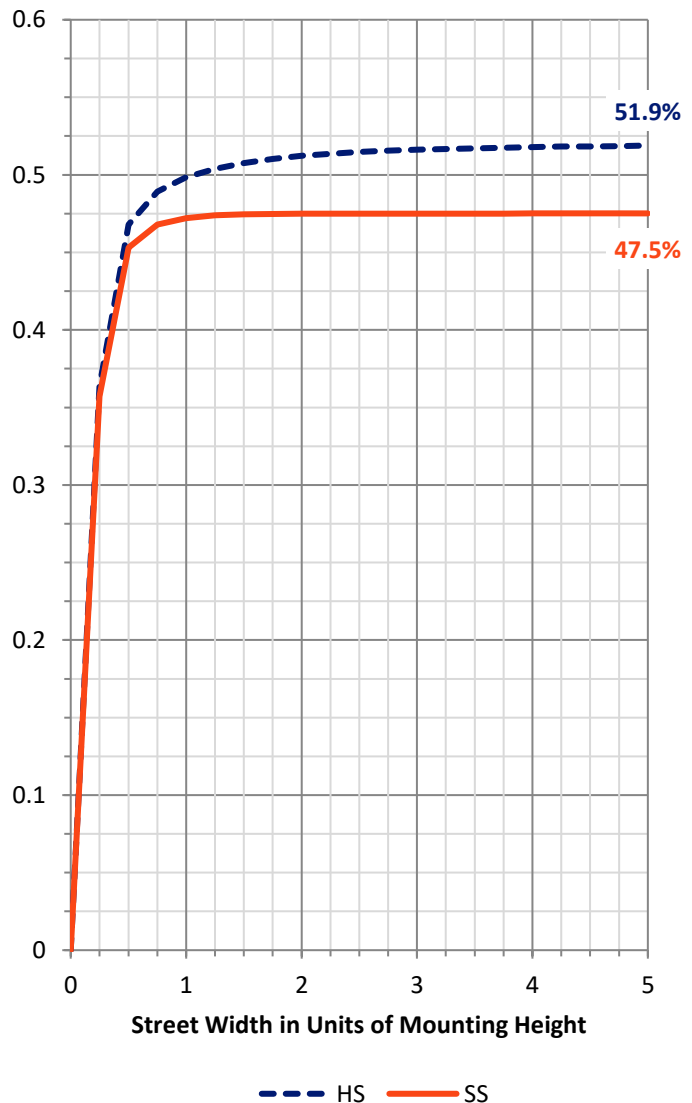
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22811.2 | 0.0 | 22811.2 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 20451.9 | 0.0 | 20451.9 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 43263.1 | 0.0 | 43263.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 12303.3 | 28.4 |
| 10°-20° | 18633.3 | 43.1 |
| 20°-30° | 7863.3 | 18.2 |
| 30°-40° | 2050.8 | 4.7 |
| 40°-50° | 1037.3 | 2.4 |
| 50°-60° | 678.0 | 1.6 |
| 60°-70° | 406.2 | 0.9 |
| 70°-80° | 213.7 | 0.5 |
| 80°-90° | 77.2 | 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° | 43263.1 | 100.0 |
| 0°-180° | 43263.1 | 100.0 |



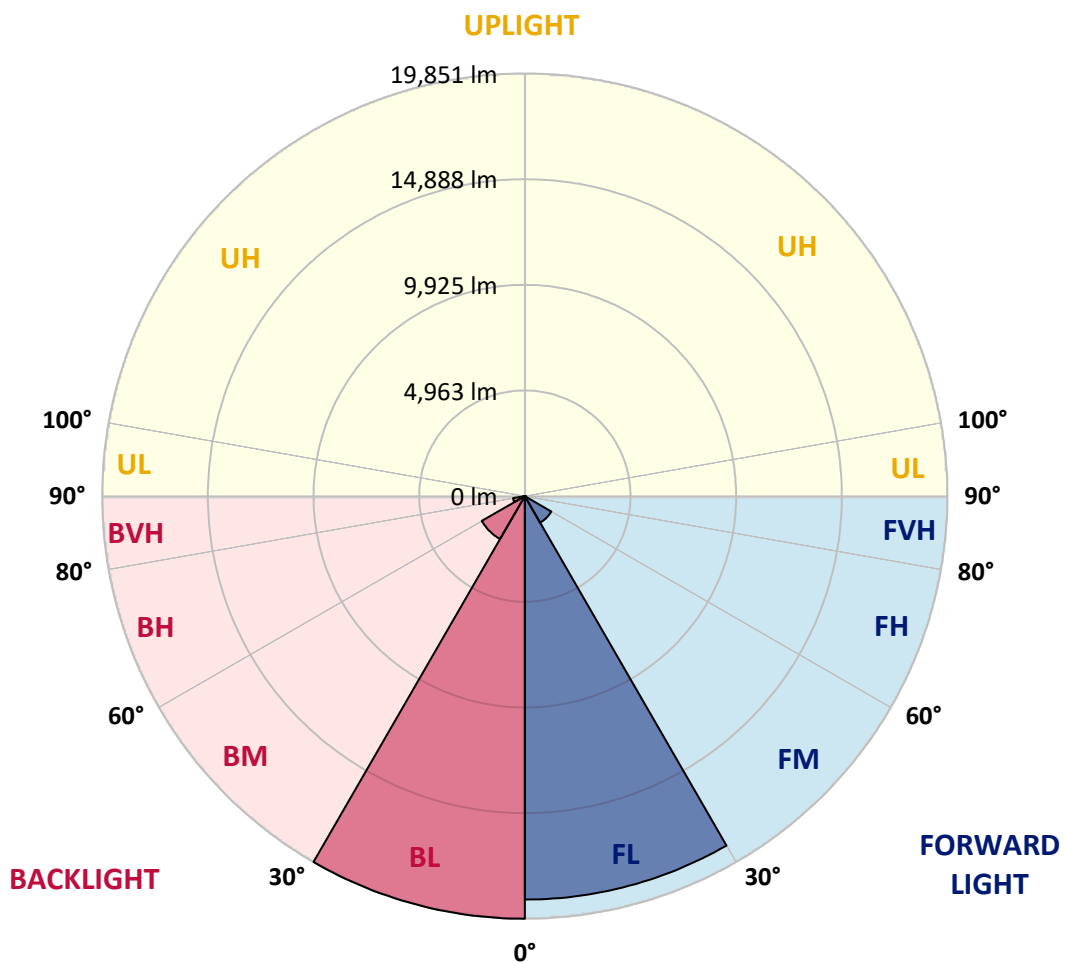
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 18949.0 | 43.8 | | | |
| FM (30°-60°) | 1435.1 | 3.3 | | | |
| FH (60°-80°) | 58.5 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 9.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 19851.0 | 45.9 | B5 | | |
| BM (30°-60°) | 2331.1 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 561.4 | 1.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 67.8 | 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° | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 |
| 2.5° | 148000.0 | 148082.6 | 147776.5 | 148437.2 | 147922.2 | 149302.0 | 148617.0 | 149685.9 | 149326.3 | 149923.9 |
| 5° | 137894.3 | 137758.2 | 137670.8 | 138695.9 | 138399.5 | 139881.4 | 138934.0 | 138623.0 | 139585.0 | 139410.1 |
| 7.5° | 122633.7 | 122993.2 | 122789.1 | 123056.4 | 123207.0 | 124897.7 | 125432.2 | 125014.3 | 125028.9 | 125271.8 |
| 10° | 106989.3 | 106459.7 | 105706.6 | 106207.0 | 107266.2 | 108004.7 | 107708.3 | 108320.5 | 108184.5 | 108762.6 |
| 12.5° | 87739.8 | 88157.7 | 87735.0 | 87288.0 | 89139.1 | 88935.0 | 89450.0 | 89785.3 | 88944.8 | 90815.3 |
| 15° | 66090.3 | 66309.0 | 66824.0 | 66789.9 | 68213.5 | 68500.1 | 68432.1 | 68786.8 | 68130.9 | 68441.8 |
| 17.5° | 42458.5 | 43197.0 | 44581.7 | 46923.5 | 49556.8 | 49862.9 | 49785.2 | 49493.6 | 49177.8 | 48828.0 |
| 20° | 28519.5 | 28441.7 | 28942.1 | 29627.2 | 35078.4 | 36521.4 | 36477.7 | 35564.3 | 34242.8 | 33990.1 |
| 22.5° | 19978.2 | 20124.0 | 20055.9 | 20736.1 | 21863.3 | 25842.4 | 25351.7 | 24423.7 | 23991.3 | 23709.5 |
| 25° | 13142.3 | 13088.8 | 13428.9 | 13633.0 | 14599.8 | 15085.7 | 16805.6 | 16460.6 | 15795.0 | 15867.9 |
| 27.5° | 8011.7 | 8079.7 | 8206.0 | 8380.9 | 9066.0 | 8910.5 | 9891.9 | 10023.1 | 9809.3 | 9581.0 |
| 30° | 4916.8 | 4965.4 | 5067.4 | 5193.7 | 5431.8 | 5261.8 | 5533.8 | 6005.1 | 5927.4 | 5767.1 |
| 32.5° | 3337.8 | 3342.7 | 3415.5 | 3464.1 | 3435.0 | 3274.6 | 3362.1 | 3809.1 | 3818.8 | 3804.2 |
| 35° | 2400.1 | 2400.1 | 2468.1 | 2507.0 | 2424.4 | 2293.2 | 2307.8 | 2584.7 | 2706.2 | 2730.5 |
| 37.5° | 1656.8 | 1661.6 | 1778.2 | 1894.8 | 1802.5 | 1768.5 | 1710.2 | 1894.8 | 2089.2 | 2118.3 |
| 40° | 1258.4 | 1253.5 | 1311.8 | 1399.3 | 1409.0 | 1345.8 | 1365.2 | 1481.8 | 1681.0 | 1705.3 |
| 42.5° | 1020.3 | 1025.1 | 1054.3 | 1044.6 | 1049.4 | 1132.0 | 1161.2 | 1214.6 | 1399.3 | 1443.0 |
| 45° | 860.0 | 864.8 | 879.4 | 830.8 | 811.4 | 937.7 | 976.6 | 1005.7 | 1161.2 | 1214.6 |
| 47.5° | 709.3 | 719.1 | 733.6 | 680.2 | 670.5 | 753.1 | 821.1 | 850.2 | 986.3 | 1044.6 |
| 50° | 510.1 | 519.9 | 573.3 | 544.2 | 573.3 | 592.7 | 685.1 | 728.8 | 821.1 | 898.8 |
| 52.5° | 369.2 | 379.0 | 393.5 | 398.4 | 471.3 | 481.0 | 549.0 | 617.0 | 660.8 | 748.2 |
| 55° | 291.5 | 301.2 | 291.5 | 281.8 | 345.0 | 398.4 | 422.7 | 495.6 | 529.6 | 631.6 |
| 57.5° | 165.2 | 174.9 | 189.5 | 218.6 | 228.4 | 306.1 | 330.4 | 393.5 | 422.7 | 519.9 |
| 60° | 29.2 | 34.0 | 53.4 | 131.2 | 160.3 | 194.3 | 247.8 | 301.2 | 340.1 | 408.1 |
| 62.5° | 4.9 | 4.9 | 9.7 | 29.2 | 92.3 | 136.0 | 179.8 | 213.8 | 247.8 | 310.9 |
| 65° | 0.0 | 0.0 | 4.9 | 9.7 | 24.3 | 77.7 | 97.2 | 126.3 | 170.0 | 223.5 |
| 67.5° | 0.0 | 0.0 | 4.9 | 9.7 | 14.6 | 29.2 | 43.7 | 77.7 | 97.2 | 150.6 |
| 70° | 0.0 | 0.0 | 4.9 | 9.7 | 14.6 | 19.4 | 24.3 | 34.0 | 58.3 | 92.3 |
| 72.5° | 0.0 | 0.0 | 4.9 | 9.7 | 14.6 | 19.4 | 24.3 | 29.2 | 29.2 | 58.3 |
| 75° | 0.0 | 0.0 | 4.9 | 9.7 | 14.6 | 24.3 | 29.2 | 29.2 | 24.3 | 24.3 |
| 77.5° | 0.0 | 0.0 | 4.9 | 9.7 | 19.4 | 29.2 | 34.0 | 29.2 | 19.4 | 19.4 |
| 80° | 0.0 | 0.0 | 9.7 | 14.6 | 24.3 | 34.0 | 43.7 | 34.0 | 19.4 | 9.7 |
| 82.5° | 0.0 | 0.0 | 9.7 | 19.4 | 24.3 | 38.9 | 53.4 | 43.7 | 19.4 | 9.7 |
| 85° | 0.0 | 0.0 | 4.9 | 14.6 | 29.2 | 38.9 | 53.4 | 38.9 | 19.4 | 4.9 |
| 87.5° | 0.0 | 0.0 | 4.9 | 4.9 | 9.7 | 14.6 | 29.2 | 24.3 | 9.7 | 4.9 |
| 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-L-SA7E-830-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 152440.6 | 0° | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 | 152440.6 |
| 148791.9 | 2.5° | 149647.0 | 150424.4 | 150584.7 | 150370.9 | 150681.9 | 150123.1 | 149695.6 | 148587.8 | 147922.2 |
| 139356.7 | 5° | 140255.5 | 140138.9 | 140950.3 | 141217.5 | 141183.5 | 140755.9 | 140158.3 | 139487.8 | 138836.8 |
| 124800.6 | 7.5° | 125577.9 | 125728.5 | 126467.0 | 126938.3 | 126700.2 | 126165.8 | 125752.8 | 125247.6 | 124810.3 |
| 108971.5 | 10° | 109967.5 | 108932.7 | 109850.9 | 109850.9 | 110487.4 | 108976.4 | 109117.3 | 107844.4 | 107902.7 |
| 90781.3 | 12.5° | 91092.2 | 91466.3 | 91616.9 | 92049.3 | 91306.0 | 90504.3 | 89522.9 | 89328.6 | 88721.3 |
| 67849.1 | 15° | 68825.7 | 69894.5 | 68976.3 | 70545.6 | 69787.6 | 68952.0 | 68801.4 | 67295.2 | 67771.4 |
| 49211.9 | 17.5° | 48968.9 | 50149.5 | 50518.8 | 51417.6 | 50727.7 | 50232.1 | 49605.4 | 49148.7 | 49114.7 |
| 34451.7 | 20° | 34723.8 | 35909.3 | 36181.3 | 37259.9 | 37182.2 | 37026.7 | 36497.1 | 35919.0 | 35292.2 |
| 23452.0 | 22.5° | 23806.7 | 24773.5 | 25677.2 | 27129.9 | 27105.6 | 26648.9 | 26595.5 | 25779.3 | 25793.8 |
| 15843.6 | 25° | 16008.8 | 16713.3 | 16927.1 | 18413.8 | 18578.9 | 18530.4 | 18253.4 | 17495.5 | 17782.1 |
| 9678.2 | 27.5° | 9687.9 | 10304.9 | 11028.8 | 11553.5 | 12049.1 | 11971.4 | 11694.4 | 11271.7 | 11087.1 |
| 5815.6 | 30° | 5971.1 | 6248.0 | 6515.3 | 7146.9 | 7443.2 | 7598.7 | 7467.5 | 7074.0 | 7103.1 |
| 3828.5 | 32.5° | 3911.1 | 4144.3 | 4338.7 | 4737.0 | 4892.5 | 5179.2 | 5125.7 | 5043.1 | 4946.0 |
| 2754.8 | 35° | 2851.9 | 3022.0 | 3153.2 | 3337.8 | 3537.0 | 3779.9 | 3818.8 | 3784.8 | 3745.9 |
| 2128.0 | 37.5° | 2176.6 | 2351.5 | 2502.1 | 2579.9 | 2735.3 | 2924.8 | 3031.7 | 3026.9 | 2997.7 |
| 1734.5 | 40° | 1768.5 | 1899.7 | 2035.7 | 2137.7 | 2244.6 | 2385.5 | 2516.7 | 2531.3 | 2531.3 |
| 1457.6 | 42.5° | 1477.0 | 1588.7 | 1724.8 | 1831.7 | 1909.4 | 2040.6 | 2176.6 | 2186.3 | 2176.6 |
| 1234.1 | 45° | 1263.2 | 1360.4 | 1491.6 | 1617.9 | 1681.0 | 1778.2 | 1909.4 | 1938.5 | 1919.1 |
| 1059.2 | 47.5° | 1098.0 | 1185.5 | 1297.2 | 1433.3 | 1501.3 | 1588.7 | 1710.2 | 1744.2 | 1739.3 |
| 913.4 | 50° | 942.6 | 1044.6 | 1156.3 | 1268.1 | 1355.5 | 1438.1 | 1554.7 | 1593.6 | 1579.0 |
| 777.4 | 52.5° | 830.8 | 923.1 | 1020.3 | 1141.8 | 1243.8 | 1316.7 | 1409.0 | 1477.0 | 1457.6 |
| 655.9 | 55° | 694.8 | 806.5 | 908.5 | 1010.6 | 1136.9 | 1214.6 | 1302.1 | 1384.7 | 1365.2 |
| 553.9 | 57.5° | 602.5 | 694.8 | 811.4 | 903.7 | 1030.0 | 1122.3 | 1209.8 | 1297.2 | 1292.4 |
| 451.8 | 60° | 505.3 | 602.5 | 714.2 | 811.4 | 928.0 | 1030.0 | 1117.5 | 1214.6 | 1224.3 |
| 340.1 | 62.5° | 398.4 | 515.0 | 612.2 | 723.9 | 840.5 | 952.3 | 1030.0 | 1127.2 | 1141.8 |
| 257.5 | 65° | 301.2 | 422.7 | 529.6 | 636.5 | 753.1 | 874.5 | 942.6 | 1025.1 | 1039.7 |
| 189.5 | 67.5° | 223.5 | 325.5 | 451.8 | 549.0 | 670.5 | 787.1 | 850.2 | 918.3 | 942.6 |
| 116.6 | 70° | 170.0 | 247.8 | 379.0 | 471.3 | 597.6 | 689.9 | 757.9 | 816.2 | 835.7 |
| 77.7 | 72.5° | 106.9 | 194.3 | 306.1 | 403.3 | 515.0 | 597.6 | 646.2 | 680.2 | 709.3 |
| 43.7 | 75° | 72.9 | 150.6 | 247.8 | 345.0 | 427.5 | 490.7 | 534.4 | 563.6 | 587.9 |
| 19.4 | 77.5° | 43.7 | 116.6 | 204.1 | 286.7 | 340.1 | 388.7 | 432.4 | 451.8 | 466.4 |
| 14.6 | 80° | 24.3 | 87.5 | 170.0 | 233.2 | 267.2 | 301.2 | 335.2 | 359.5 | 369.2 |
| 9.7 | 82.5° | 14.6 | 68.0 | 136.0 | 179.8 | 194.3 | 228.4 | 262.4 | 276.9 | 276.9 |
| 4.9 | 85° | 9.7 | 48.6 | 92.3 | 131.2 | 140.9 | 165.2 | 174.9 | 184.6 | 194.3 |
| 4.9 | 87.5° | 9.7 | 29.2 | 58.3 | 72.9 | 77.7 | 87.5 | 92.3 | 102.0 | 111.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
152440.6
147431.5
138108.0
123328.4
107334.2
88167.4
67295.2
48211.0
35020.1
25512.0
17330.3
10926.8
6976.8
4912.0
3731.3
2983.1
2502.1
2166.9
1919.1
1729.6
1569.3
1452.7
1375.0
1297.2
1229.2
1151.5
1054.3
952.3
845.4
704.5
583.0
461.6
359.5
272.1
189.5
106.9
0.0

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