

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: P637161

Luminaire Tested: **IFLD-M-SA4D-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637161
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31823.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

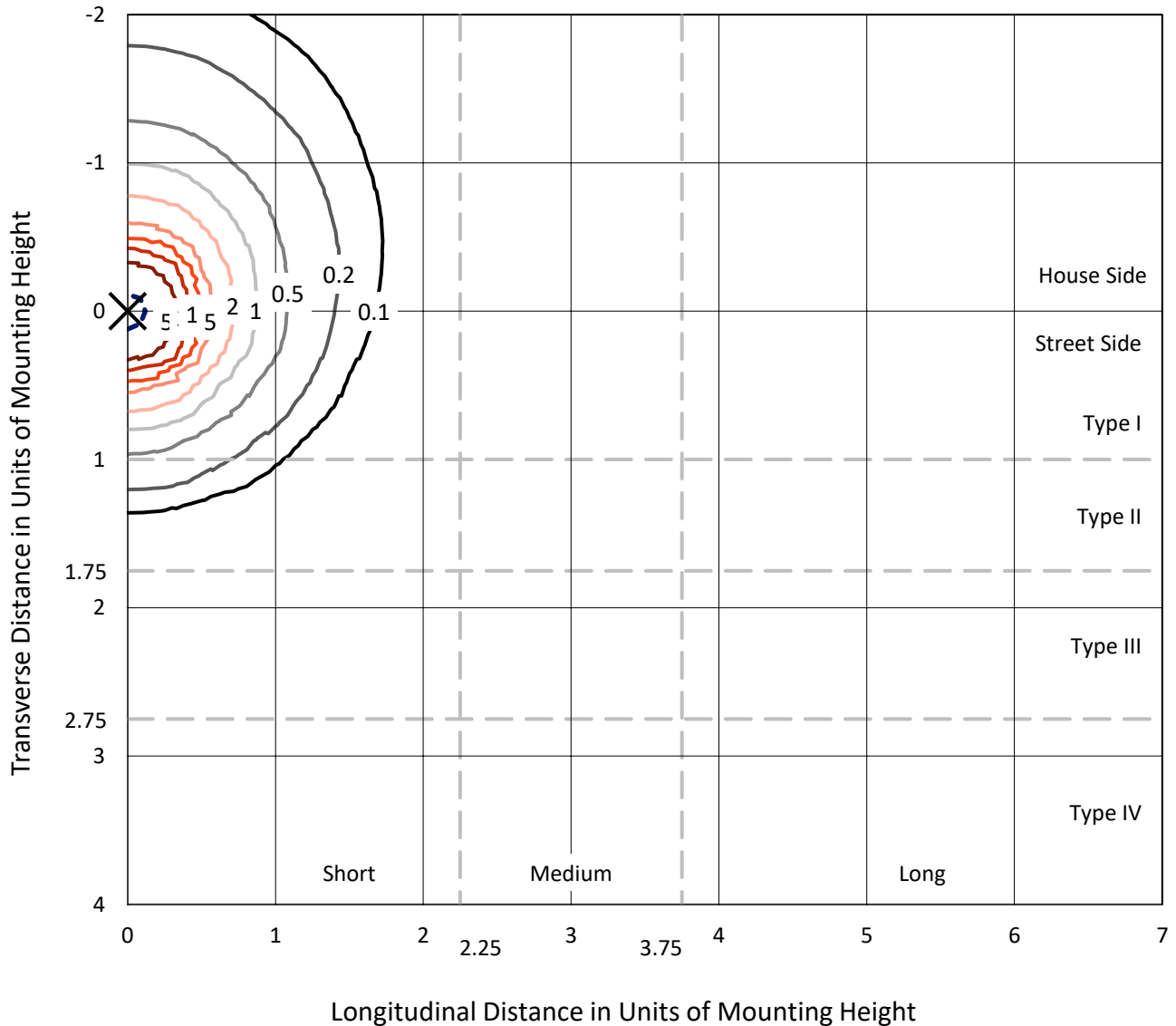
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

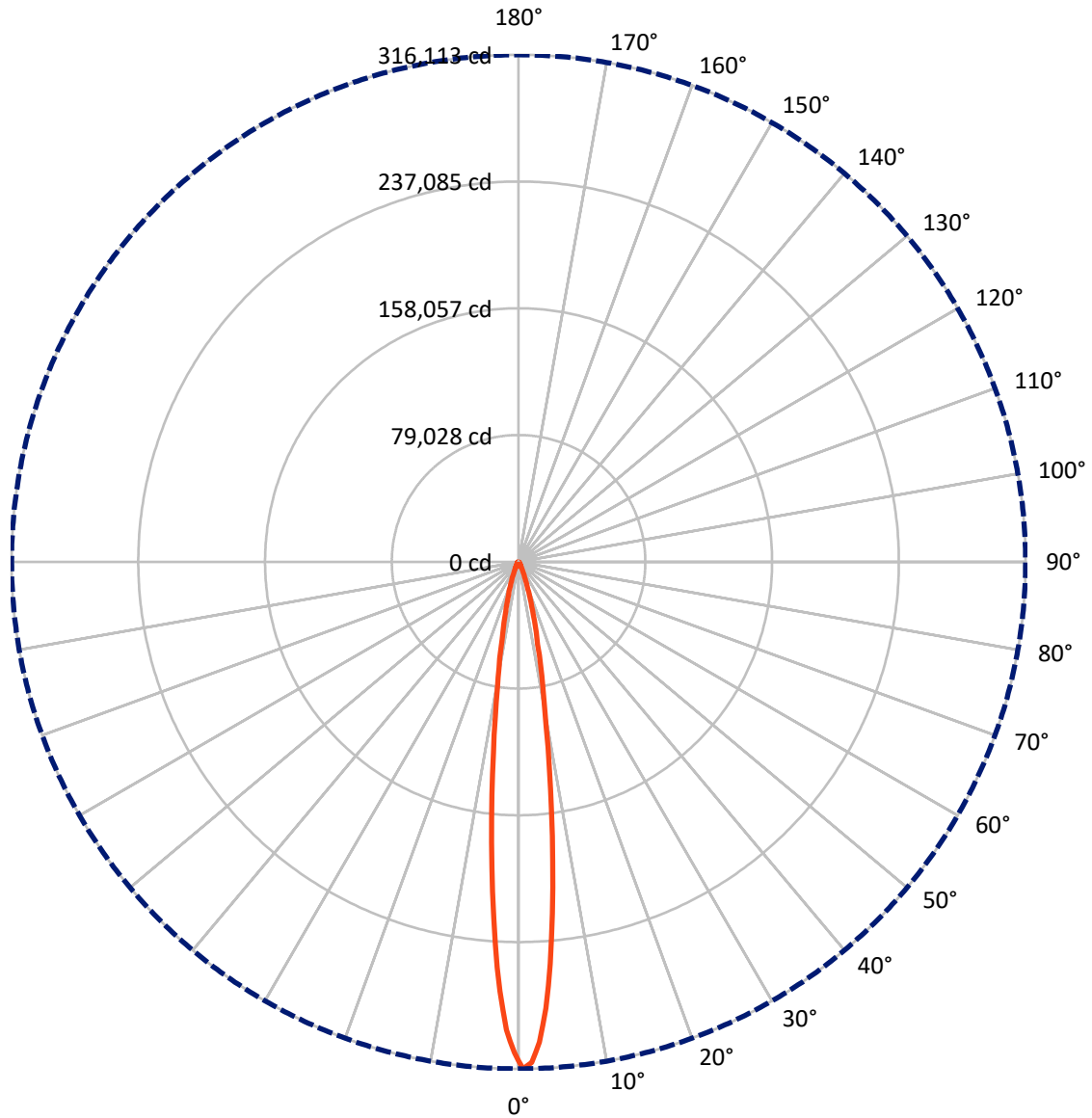
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 790.3 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 | 16299.5 | 0.0 | 16299.5 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 15524.2 | 0.0 | 15524.2 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 31823.7 | 0.0 | 31823.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 16065.6 | 50.5 |
| 10°-20° | 10285.1 | 32.3 |
| 20°-30° | 3091.5 | 9.7 |
| 30°-40° | 1006.6 | 3.2 |
| 40°-50° | 585.7 | 1.8 |
| 50°-60° | 389.0 | 1.2 |
| 60°-70° | 234.2 | 0.7 |
| 70°-80° | 120.4 | 0.4 |
| 80°-90° | 45.7 | 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° | 31823.7 | 100.0 |
| 0°-180° | 31823.7 | 100.0 |

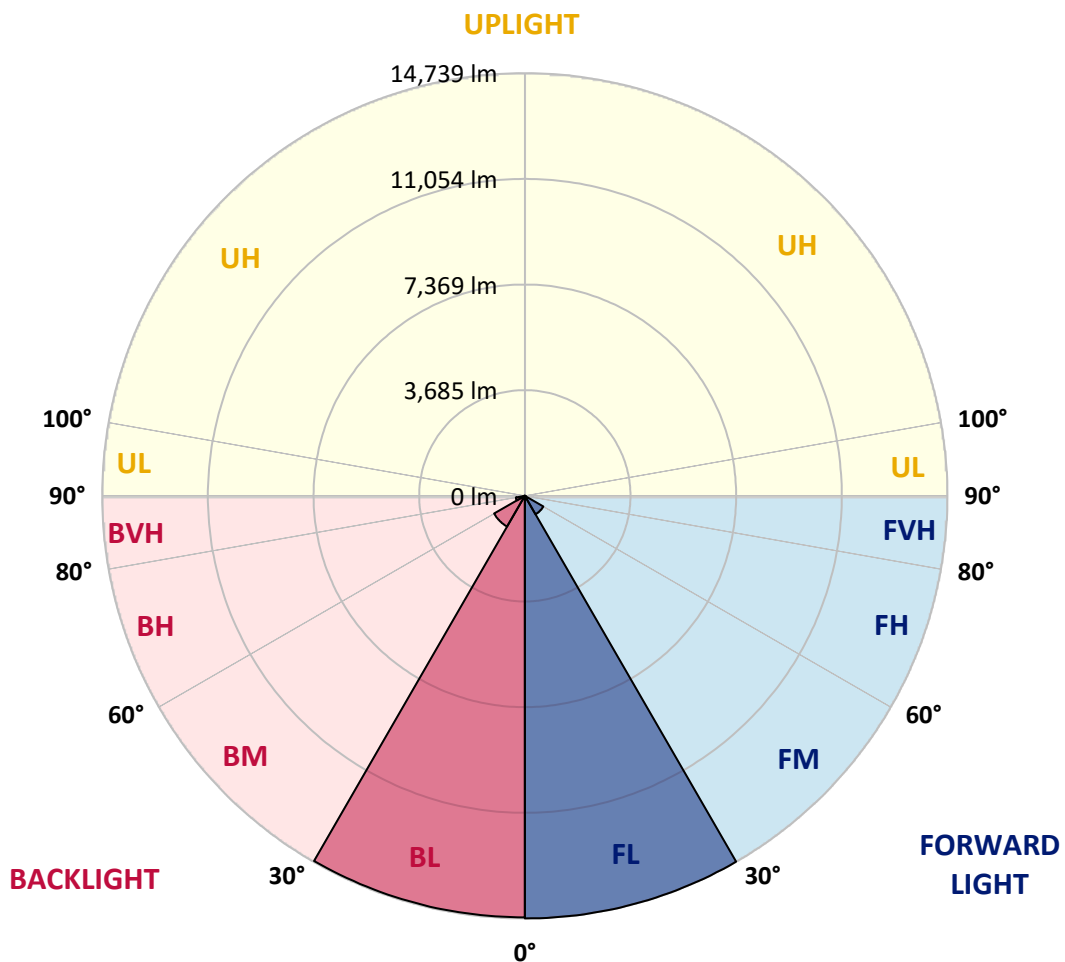


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 14738.6 | 46.3 | | | |
| FM (30°-60°) | 743.7 | 2.3 | | | |
| FH (60°-80°) | 35.0 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 6.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 14703.6 | 46.2 | B5 | | |
| BM (30°-60°) | 1237.6 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 319.5 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 38.8 | 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° | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 |
| 1° | 312328.0 | 311374.8 | 308913.8 | 310664.2 | 312203.2 | 311756.1 | 311724.9 | 311558.5 | 311326.3 | 313149.4 |
| 2° | 299843.0 | 299226.1 | 295586.6 | 297087.5 | 299274.6 | 297680.2 | 298678.4 | 297801.5 | 297818.8 | 299995.5 |
| 3° | 278796.8 | 279133.0 | 273327.3 | 276055.1 | 279094.9 | 275230.2 | 276429.4 | 278682.4 | 276322.0 | 275611.4 |
| 4° | 251442.2 | 248523.8 | 245352.3 | 248125.2 | 248912.0 | 246662.5 | 248873.8 | 251632.9 | 248353.9 | 248499.5 |
| 5° | 220212.6 | 218056.6 | 214302.8 | 216015.1 | 214063.7 | 214774.2 | 218087.8 | 219224.7 | 216937.1 | 214056.7 |
| 6° | 188102.5 | 186570.5 | 181877.3 | 184345.2 | 183652.0 | 183249.9 | 187433.5 | 183967.4 | 185215.2 | 183471.8 |
| 7° | 156463.8 | 153600.8 | 151295.8 | 153659.7 | 153812.2 | 152602.6 | 158034.0 | 157403.1 | 155132.8 | 154606.0 |
| 8° | 129632.6 | 126776.5 | 124825.1 | 126585.9 | 127736.7 | 125837.2 | 128391.8 | 130069.4 | 128294.7 | 128454.1 |
| 9° | 104555.3 | 104052.7 | 101338.7 | 103640.2 | 104891.5 | 102856.9 | 105685.2 | 106291.8 | 104631.5 | 105439.2 |
| 10° | 85848.7 | 85262.9 | 83096.6 | 84029.0 | 86101.7 | 83675.4 | 86389.4 | 86587.0 | 85262.9 | 85640.7 |
| 12.5° | 53052.3 | 52816.6 | 52757.7 | 52892.9 | 52865.2 | 53295.0 | 53988.2 | 53197.9 | 53093.9 | 51787.2 |
| 15° | 34290.3 | 34640.3 | 34279.9 | 34973.1 | 35073.6 | 35479.1 | 35056.3 | 34418.5 | 33201.9 | 32598.8 |
| 17.5° | 21399.8 | 21846.9 | 22463.9 | 23479.4 | 24495.0 | 24612.9 | 24051.4 | 23302.7 | 22713.4 | 22068.7 |
| 20° | 12311.6 | 12530.0 | 12436.4 | 13653.0 | 16280.3 | 16994.4 | 16269.9 | 15483.1 | 14772.6 | 14120.9 |
| 22.5° | 7649.7 | 7570.0 | 7715.6 | 8124.6 | 8980.7 | 11188.6 | 10595.9 | 9809.1 | 9292.6 | 8755.4 |
| 25° | 4689.7 | 4776.3 | 4720.8 | 4946.1 | 5330.9 | 6266.7 | 6401.9 | 6062.2 | 5798.8 | 5521.5 |
| 27.5° | 3019.0 | 3019.0 | 3043.2 | 3168.0 | 3431.5 | 3400.3 | 4121.2 | 3857.8 | 3715.7 | 3580.5 |
| 30° | 2097.0 | 2103.9 | 2103.9 | 2176.7 | 2235.6 | 2131.7 | 2318.8 | 2658.5 | 2592.7 | 2488.7 |
| 32.5° | 1556.3 | 1577.1 | 1594.4 | 1632.5 | 1584.0 | 1473.1 | 1518.2 | 1913.3 | 1875.2 | 1837.0 |
| 35° | 1185.4 | 1202.7 | 1244.3 | 1265.1 | 1195.8 | 1126.5 | 1084.9 | 1407.2 | 1424.6 | 1414.2 |
| 37.5° | 863.1 | 873.5 | 949.7 | 1029.4 | 949.7 | 887.3 | 863.1 | 1081.4 | 1164.6 | 1154.2 |
| 40° | 662.0 | 665.5 | 679.4 | 769.5 | 769.5 | 721.0 | 727.9 | 807.6 | 953.2 | 953.2 |
| 42.5° | 568.4 | 568.4 | 582.3 | 568.4 | 571.9 | 623.9 | 641.2 | 651.6 | 807.6 | 807.6 |
| 45° | 492.2 | 492.2 | 499.1 | 464.5 | 429.8 | 537.2 | 551.1 | 554.6 | 679.4 | 696.7 |
| 47.5° | 412.5 | 412.5 | 426.3 | 381.3 | 363.9 | 426.3 | 464.5 | 474.9 | 585.8 | 599.6 |
| 50° | 305.0 | 308.5 | 350.1 | 312.0 | 322.3 | 329.3 | 402.1 | 409.0 | 495.7 | 526.8 |
| 52.5° | 204.5 | 204.5 | 211.4 | 242.6 | 280.8 | 270.4 | 325.8 | 350.1 | 395.1 | 436.7 |
| 55° | 166.4 | 166.4 | 162.9 | 156.0 | 208.0 | 225.3 | 239.2 | 291.2 | 322.3 | 374.3 |
| 57.5° | 114.4 | 121.3 | 110.9 | 128.2 | 135.2 | 169.8 | 180.2 | 228.8 | 246.1 | 315.4 |
| 60° | 13.9 | 17.3 | 24.3 | 93.6 | 90.1 | 114.4 | 135.2 | 180.2 | 201.0 | 242.6 |
| 62.5° | 3.5 | 3.5 | 6.9 | 17.3 | 62.4 | 76.3 | 107.4 | 124.8 | 145.6 | 187.2 |
| 65° | 0.0 | 0.0 | 3.5 | 6.9 | 13.9 | 41.6 | 55.5 | 72.8 | 104.0 | 131.7 |
| 67.5° | 0.0 | 0.0 | 3.5 | 6.9 | 6.9 | 17.3 | 27.7 | 45.1 | 55.5 | 97.1 |
| 70° | 0.0 | 0.0 | 3.5 | 6.9 | 6.9 | 13.9 | 17.3 | 20.8 | 38.1 | 52.0 |
| 72.5° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 13.9 | 17.3 | 17.3 | 17.3 | 34.7 |
| 75° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 13.9 | 17.3 | 17.3 | 13.9 | 13.9 |
| 77.5° | 0.0 | 0.0 | 3.5 | 6.9 | 13.9 | 17.3 | 20.8 | 17.3 | 10.4 | 10.4 |
| 80° | 0.0 | 0.0 | 3.5 | 10.4 | 17.3 | 24.3 | 27.7 | 20.8 | 10.4 | 6.9 |
| 82.5° | 0.0 | 0.0 | 6.9 | 13.9 | 20.8 | 27.7 | 38.1 | 31.2 | 13.9 | 6.9 |
| 85° | 0.0 | 0.0 | 3.5 | 10.4 | 20.8 | 27.7 | 55.5 | 38.1 | 17.3 | 3.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 6.9 | 20.8 | 13.9 | 6.9 | 3.5 |
| 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-M-SA4D-750-U-33-VI

CANDELA DISTRIBUTION (continued):

| 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 316113.0 | 0° | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 | 316113.0 |
| 311045.5 | 1° | 313218.8 | 313437.1 | 312723.1 | 313828.8 | 313440.6 | 311166.8 | 310414.7 | 309523.9 |
| 298716.5 | 2° | 297801.5 | 298914.1 | 298969.6 | 300196.6 | 300179.2 | 297527.7 | 296706.2 | 298220.9 |
| 277053.3 | 3° | 276214.5 | 277510.9 | 276342.8 | 278523.0 | 277867.9 | 274651.3 | 273816.0 | 275535.2 |
| 249650.2 | 4° | 248905.0 | 248658.9 | 248256.9 | 247016.0 | 248544.6 | 246350.5 | 244697.2 | 247029.9 |
| 217876.4 | 5° | 217439.7 | 216892.0 | 216108.7 | 215741.3 | 216878.1 | 215474.4 | 212074.1 | 215481.3 |
| 186625.9 | 6° | 186854.7 | 184497.7 | 184383.3 | 184178.8 | 184293.2 | 180362.7 | 180598.3 | 183135.5 |
| 152793.2 | 7° | 154408.4 | 154841.7 | 153957.8 | 155375.4 | 154294.0 | 151632.0 | 150606.1 | 153278.4 |
| 129154.3 | 8° | 128253.1 | 127705.5 | 127029.6 | 129147.4 | 127272.2 | 125525.3 | 124329.5 | 126440.3 |
| 105570.9 | 9° | 105373.3 | 104427.0 | 103740.8 | 103633.3 | 103924.5 | 100645.5 | 101311.0 | 102908.9 |
| 85848.7 | 10° | 85879.9 | 84327.1 | 84704.9 | 84805.4 | 84486.5 | 82337.5 | 82358.3 | 82909.4 |
| 52653.7 | 12.5° | 52466.6 | 51704.0 | 51894.6 | 51998.6 | 52646.8 | 51891.2 | 50823.6 | 50054.1 |
| 33198.4 | 15° | 32976.6 | 32429.0 | 33548.5 | 34300.7 | 34148.1 | 33475.7 | 32973.1 | 32276.4 |
| 22068.7 | 17.5° | 21864.2 | 22581.7 | 22585.2 | 23271.5 | 23340.8 | 22668.4 | 22280.2 | 21652.8 |
| 14353.2 | 20° | 14301.2 | 14599.3 | 15219.7 | 15705.0 | 15985.7 | 15472.7 | 15008.3 | 14578.5 |
| 8949.5 | 22.5° | 8949.5 | 9469.4 | 9857.6 | 10488.5 | 10744.9 | 10370.6 | 10041.3 | 9691.3 |
| 5587.4 | 25° | 5493.8 | 5864.7 | 6187.0 | 6734.7 | 7084.7 | 6904.5 | 6602.9 | 6356.9 |
| 3608.2 | 27.5° | 3663.7 | 3819.7 | 3979.1 | 4356.9 | 4720.8 | 4620.3 | 4499.0 | 4350.0 |
| 2544.1 | 30° | 2582.3 | 2596.1 | 2766.0 | 2977.4 | 3220.0 | 3282.4 | 3227.0 | 3150.7 |
| 1868.2 | 32.5° | 1902.9 | 1958.4 | 2038.1 | 2169.8 | 2332.7 | 2481.7 | 2454.0 | 2419.3 |
| 1428.0 | 35° | 1469.6 | 1552.8 | 1618.7 | 1719.2 | 1805.8 | 1948.0 | 1972.2 | 1961.8 |
| 1175.0 | 37.5° | 1199.3 | 1272.1 | 1337.9 | 1396.8 | 1469.6 | 1566.7 | 1642.9 | 1646.4 |
| 970.5 | 40° | 994.8 | 1060.6 | 1147.3 | 1192.3 | 1244.3 | 1317.1 | 1410.7 | 1417.6 |
| 821.5 | 42.5° | 838.8 | 901.2 | 987.8 | 1043.3 | 1081.4 | 1150.7 | 1244.3 | 1258.2 |
| 703.6 | 45° | 721.0 | 759.1 | 849.2 | 915.1 | 953.2 | 998.2 | 1098.8 | 1112.6 |
| 606.6 | 47.5° | 627.4 | 665.5 | 721.0 | 814.5 | 849.2 | 890.8 | 970.5 | 994.8 |
| 537.2 | 50° | 551.1 | 589.2 | 637.8 | 721.0 | 772.9 | 807.6 | 873.5 | 908.1 |
| 467.9 | 52.5° | 488.7 | 526.8 | 578.8 | 644.7 | 703.6 | 734.8 | 797.2 | 842.3 |
| 381.3 | 55° | 409.0 | 474.9 | 513.0 | 571.9 | 651.6 | 679.4 | 727.9 | 786.8 |
| 332.7 | 57.5° | 357.0 | 412.5 | 467.9 | 516.5 | 596.2 | 630.8 | 679.4 | 734.8 |
| 263.4 | 60° | 301.6 | 353.5 | 419.4 | 461.0 | 537.2 | 582.3 | 634.3 | 686.3 |
| 201.0 | 62.5° | 239.2 | 308.5 | 353.5 | 412.5 | 485.3 | 544.2 | 585.8 | 637.8 |
| 156.0 | 65° | 176.8 | 253.0 | 305.0 | 367.4 | 436.7 | 499.1 | 533.8 | 589.2 |
| 110.9 | 67.5° | 128.2 | 197.6 | 260.0 | 318.9 | 384.7 | 447.1 | 481.8 | 530.3 |
| 69.3 | 70° | 100.5 | 145.6 | 214.9 | 266.9 | 336.2 | 388.2 | 426.3 | 457.5 |
| 45.1 | 72.5° | 58.9 | 110.9 | 173.3 | 232.2 | 294.6 | 329.3 | 357.0 | 384.7 |
| 20.8 | 75° | 38.1 | 86.7 | 142.1 | 194.1 | 239.2 | 270.4 | 294.6 | 318.9 |
| 10.4 | 77.5° | 24.3 | 62.4 | 114.4 | 162.9 | 183.7 | 221.8 | 242.6 | 256.5 |
| 6.9 | 80° | 13.9 | 48.5 | 100.5 | 131.7 | 149.0 | 173.3 | 194.1 | 211.4 |
| 6.9 | 82.5° | 10.4 | 41.6 | 83.2 | 110.9 | 110.9 | 138.6 | 149.0 | 149.0 |
| 3.5 | 85° | 6.9 | 34.7 | 65.9 | 104.0 | 83.2 | 104.0 | 97.1 | 97.1 |
| 3.5 | 87.5° | 6.9 | 24.3 | 31.2 | 45.1 | 38.1 | 45.1 | 45.1 | 52.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
316113.0
305995.4
291805.1
267899.3
238586.4
206504.1
175780.4
146010.0
120412.8
97917.7
79159.1
49586.2
31919.4
21496.8
14429.4
9504.1
6214.7
4263.3
3098.7
2391.6
1927.2
1622.1
1407.2
1247.8
1109.2
998.2
911.6
842.3
790.3
738.3
700.2
662.0
599.6
533.8
467.9
391.7
318.9
249.6
190.6
138.6
93.6
52.0
0.0

(END OF REPORT)