

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: P636981

Luminaire Tested: **IFLD-S-SA6C-950-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636981
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-950-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22129.8 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

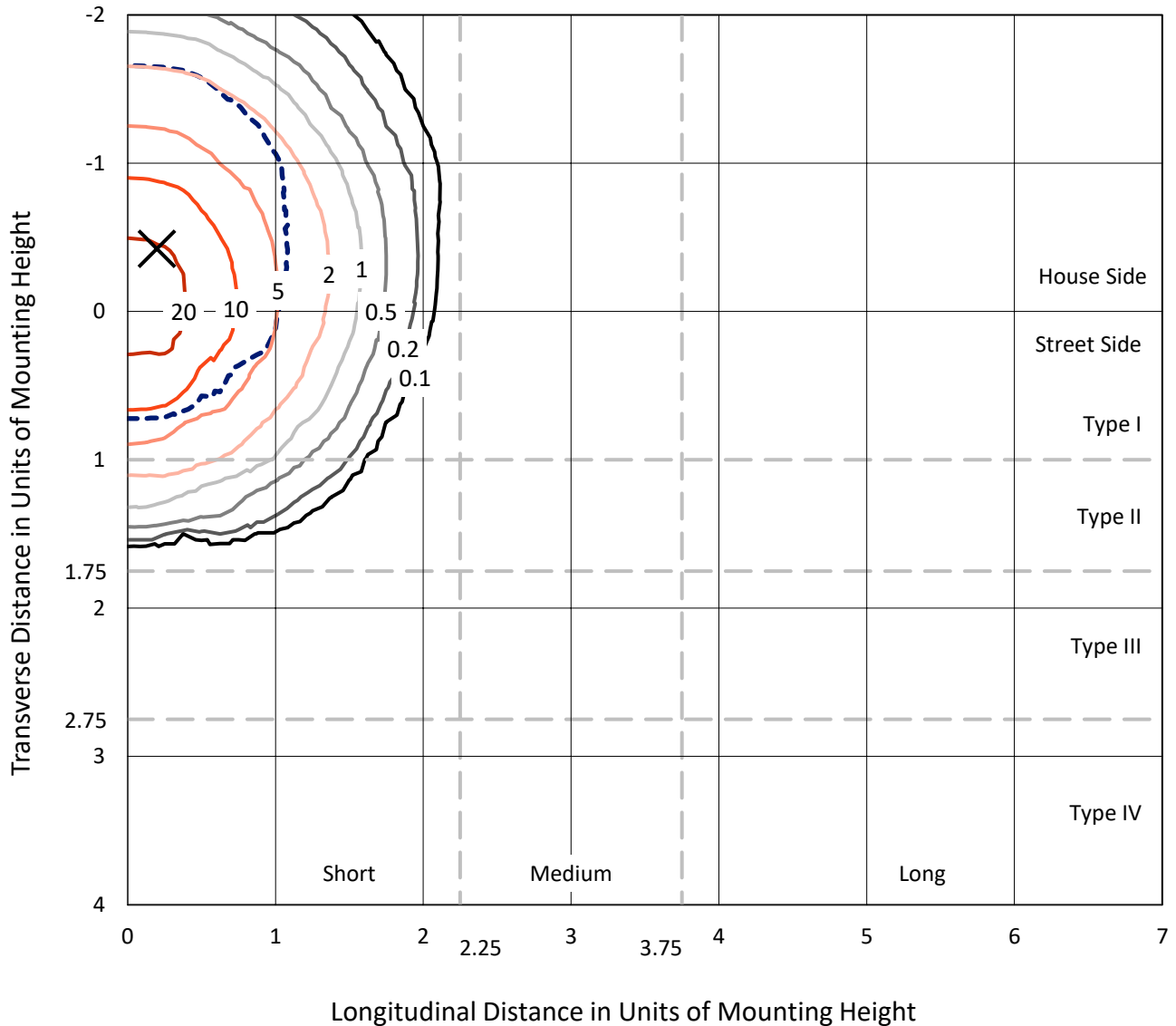
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636981
 CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

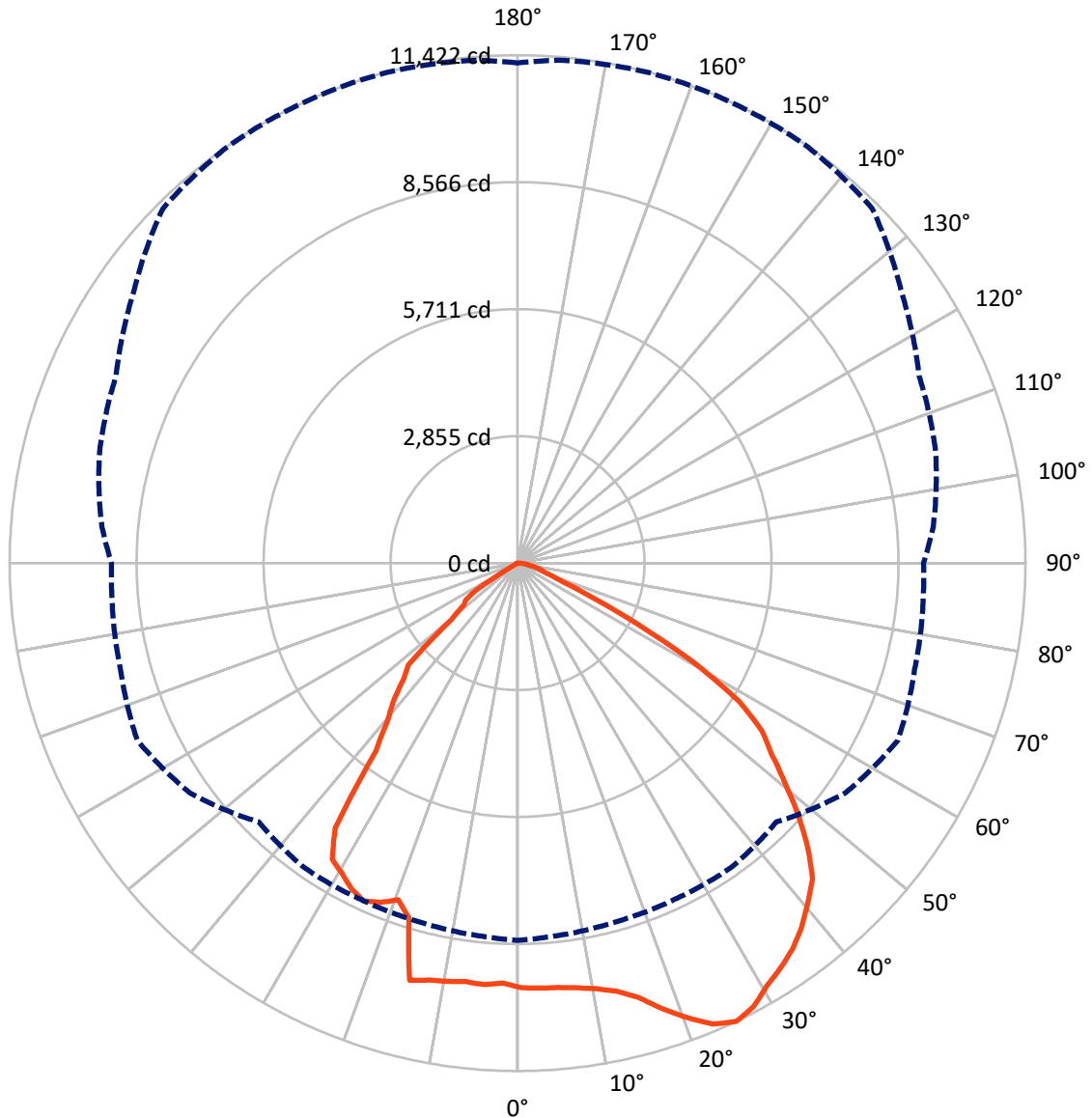
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.9 fc
 Type I - Short - N/A

REPORT NUMBER: P636981
CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P636981
 CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

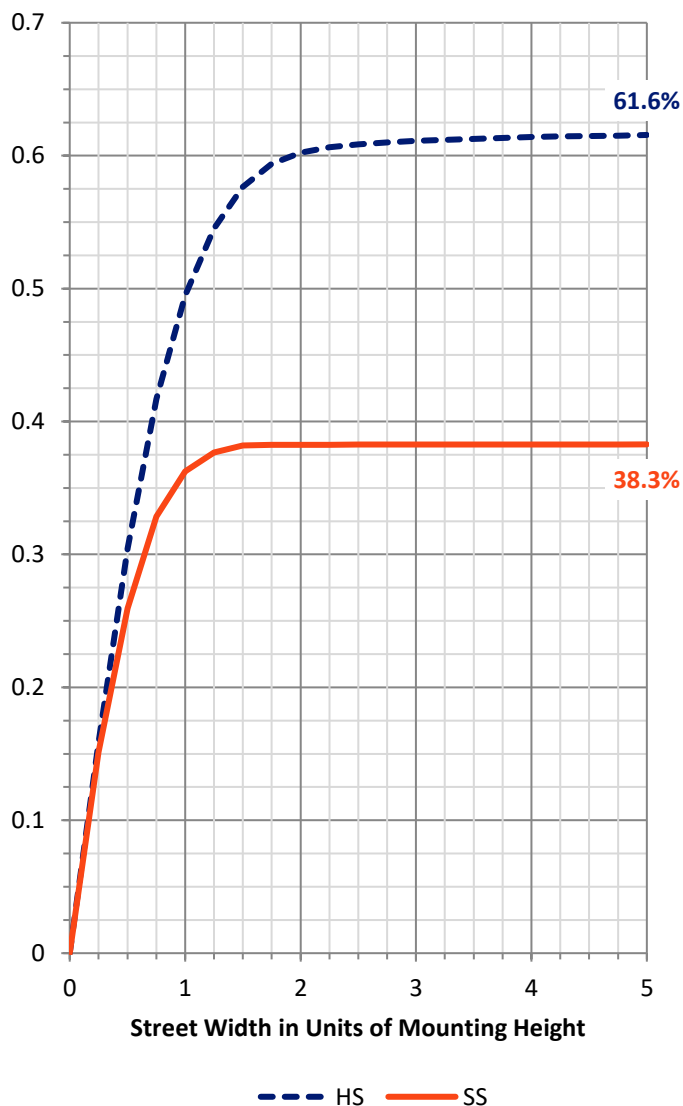
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13700.6 | 0.0 | 13700.6 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 8429.2 | 0.0 | 8429.2 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 22129.8 | 0.0 | 22129.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 916.1 | 4.1 |
| 10°-20° | 2797.1 | 12.6 |
| 20°-30° | 4422.1 | 20.0 |
| 30°-40° | 4995.2 | 22.6 |
| 40°-50° | 4678.1 | 21.1 |
| 50°-60° | 3225.2 | 14.6 |
| 60°-70° | 866.5 | 3.9 |
| 70°-80° | 180.6 | 0.8 |
| 80°-90° | 48.9 | 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° | 22129.8 | 100.0 |
| 0°-180° | 22129.8 | 100.0 |



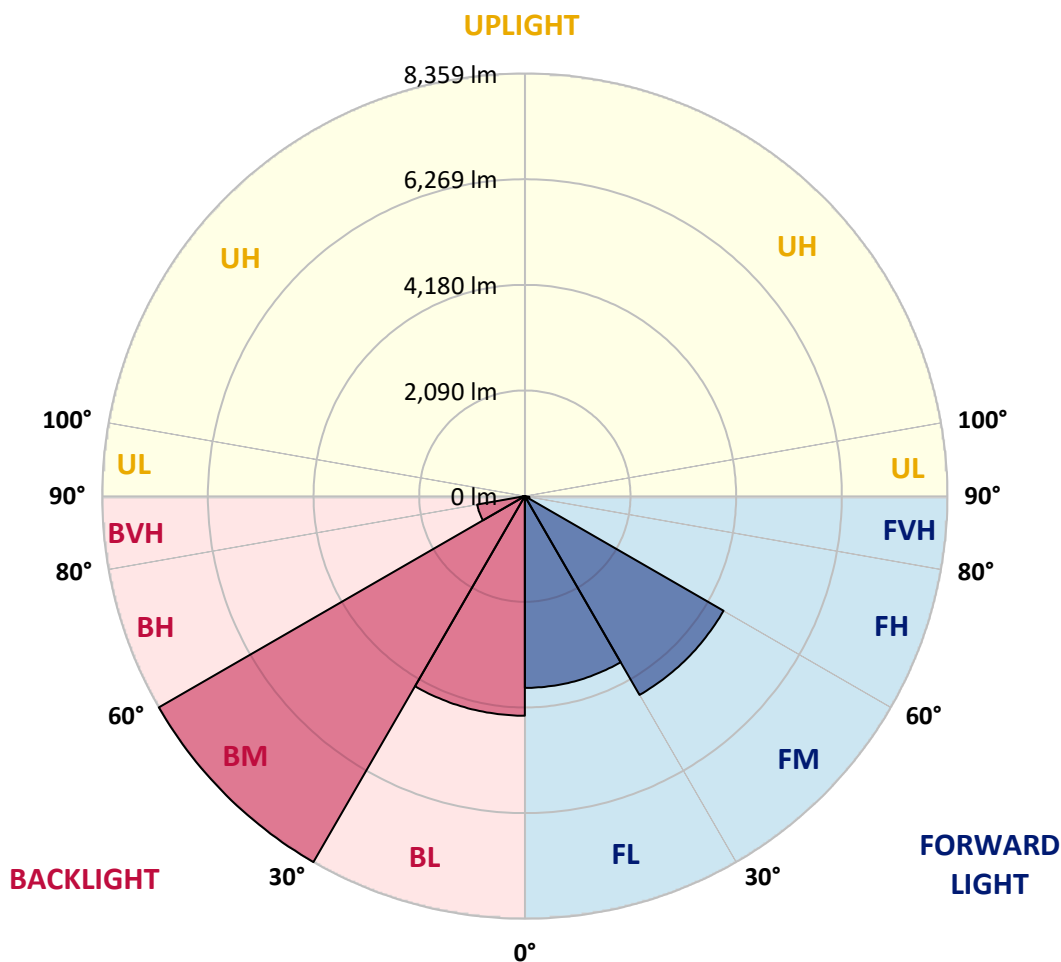
REPORT NUMBER: P636981
 CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3792.3 | 17.1 | | | |
| FM (30°-60°) | 4539.3 | 20.5 | | | |
| FH (60°-80°) | 91.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4343.0 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 8359.2 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 956.1 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 42.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P636981
 CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 |
| 2.5° | 9590.9 | 9529.1 | 9470.6 | 9451.0 | 9532.3 | 9620.2 | 9564.9 | 9568.1 | 9548.6 | 9584.4 |
| 5° | 9662.4 | 9577.9 | 9538.8 | 9509.6 | 9522.6 | 9613.6 | 9535.6 | 9564.9 | 9532.3 | 9574.6 |
| 7.5° | 9636.4 | 9577.9 | 9538.8 | 9483.6 | 9525.8 | 9633.2 | 9558.4 | 9561.6 | 9545.4 | 9584.4 |
| 10° | 9620.2 | 9577.9 | 9529.1 | 9535.6 | 9584.4 | 9675.4 | 9616.9 | 9649.4 | 9626.7 | 9649.4 |
| 12.5° | 9659.2 | 9613.6 | 9587.6 | 9587.6 | 9629.9 | 9734.0 | 9704.7 | 9734.0 | 9724.2 | 9743.7 |
| 15° | 9291.7 | 9334.0 | 9581.1 | 9691.7 | 9776.3 | 9880.3 | 9867.3 | 9896.6 | 9903.1 | 9932.4 |
| 17.5° | 7837.9 | 7795.6 | 7776.1 | 8345.3 | 9857.6 | 10179.5 | 10169.8 | 10166.5 | 10134.0 | 10111.2 |
| 20° | 8029.8 | 8013.5 | 7990.8 | 8033.1 | 8202.2 | 10335.6 | 10400.7 | 10000.7 | 9883.6 | 9873.8 |
| 22.5° | 8335.5 | 8309.5 | 8224.9 | 8228.2 | 8280.2 | 8986.0 | 10078.7 | 9714.5 | 9675.4 | 9652.7 |
| 25° | 8485.1 | 8433.1 | 8364.8 | 8345.3 | 8361.5 | 8231.4 | 9002.2 | 9434.8 | 9242.9 | 9155.1 |
| 27.5° | 8221.7 | 8224.9 | 8169.7 | 8221.7 | 8159.9 | 7574.5 | 7246.0 | 8888.4 | 8881.9 | 8842.9 |
| 30° | 8023.3 | 8013.5 | 7948.5 | 8013.5 | 7587.5 | 6933.8 | 6793.9 | 8290.0 | 8221.7 | 8169.7 |
| 32.5° | 7415.1 | 7421.6 | 7610.3 | 7863.9 | 7164.7 | 6647.6 | 6224.8 | 7405.4 | 8052.6 | 8023.3 |
| 35° | 5304.4 | 5317.4 | 5987.4 | 7239.5 | 6524.0 | 6078.5 | 6045.9 | 6400.4 | 7785.9 | 7798.9 |
| 37.5° | 5106.0 | 5106.0 | 5089.8 | 5294.7 | 6019.9 | 5847.5 | 5912.6 | 5876.8 | 7132.2 | 7164.7 |
| 40° | 4962.9 | 4933.7 | 4910.9 | 4588.9 | 4185.6 | 5684.9 | 5730.5 | 5567.9 | 6741.9 | 6748.4 |
| 42.5° | 4790.6 | 4758.0 | 4764.5 | 4169.4 | 3746.6 | 5281.7 | 5154.8 | 4936.9 | 6091.5 | 6098.0 |
| 45° | 4475.1 | 4530.4 | 4569.4 | 3649.0 | 3616.5 | 3772.6 | 4754.8 | 4618.2 | 5652.4 | 5772.7 |
| 47.5° | 2276.6 | 2325.4 | 3567.7 | 3356.3 | 3431.1 | 3353.1 | 4016.5 | 4019.8 | 4702.8 | 5102.8 |
| 50° | 2065.2 | 2052.2 | 2055.4 | 1957.9 | 3167.7 | 2712.4 | 2904.3 | 3684.8 | 3766.1 | 4338.5 |
| 52.5° | 1925.3 | 1922.1 | 1723.7 | 1531.8 | 1990.4 | 2387.2 | 2107.5 | 2666.8 | 2800.2 | 3675.0 |
| 55° | 1424.5 | 1528.6 | 1359.4 | 1440.7 | 1245.6 | 1912.3 | 1902.6 | 2406.7 | 2452.2 | 2946.5 |
| 57.5° | 13.0 | 16.3 | 39.0 | 1096.0 | 861.8 | 956.2 | 1313.9 | 1642.4 | 1723.7 | 2296.1 |
| 60° | 3.3 | 6.5 | 16.3 | 32.5 | 559.4 | 588.7 | 878.1 | 949.7 | 1070.0 | 1369.2 |
| 62.5° | 0.0 | 0.0 | 6.5 | 16.3 | 29.3 | 240.7 | 279.7 | 305.7 | 471.6 | 699.2 |
| 65° | 0.0 | 0.0 | 3.3 | 9.8 | 16.3 | 39.0 | 68.3 | 143.1 | 204.9 | 253.7 |
| 67.5° | 0.0 | 0.0 | 3.3 | 6.5 | 13.0 | 19.5 | 39.0 | 55.3 | 87.8 | 149.6 |
| 70° | 0.0 | 0.0 | 3.3 | 6.5 | 9.8 | 16.3 | 26.0 | 39.0 | 52.0 | 74.8 |
| 72.5° | 0.0 | 0.0 | 3.3 | 6.5 | 6.5 | 19.5 | 19.5 | 29.3 | 39.0 | 48.8 |
| 75° | 0.0 | 0.0 | 3.3 | 3.3 | 6.5 | 13.0 | 19.5 | 22.8 | 26.0 | 39.0 |
| 77.5° | 0.0 | 0.0 | 3.3 | 6.5 | 9.8 | 13.0 | 16.3 | 26.0 | 22.8 | 22.8 |
| 80° | 0.0 | 0.0 | 3.3 | 9.8 | 9.8 | 16.3 | 19.5 | 26.0 | 16.3 | 16.3 |
| 82.5° | 0.0 | 0.0 | 3.3 | 13.0 | 9.8 | 32.5 | 32.5 | 35.8 | 13.0 | 13.0 |
| 85° | 0.0 | 0.0 | 9.8 | 6.5 | 19.5 | 32.5 | 29.3 | 19.5 | 16.3 | 9.8 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 6.5 | 9.8 | 22.8 | 19.5 | 6.5 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636981

CATALOG NUMBER: IFLD-S-SA6C-950-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9548.6 | 0° | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 | 9548.6 |
| 9490.1 | 2.5° | 9620.2 | 9577.9 | 9665.7 | 9655.9 | 9613.6 | 9594.1 | 9571.4 | 9551.9 | 9408.8 |
| 9496.6 | 5° | 9623.4 | 9558.4 | 9665.7 | 9646.2 | 9639.7 | 9607.1 | 9587.6 | 9616.9 | 9486.8 |
| 9522.6 | 7.5° | 9623.4 | 9558.4 | 9675.4 | 9681.9 | 9672.2 | 9646.2 | 9642.9 | 9662.4 | 9555.1 |
| 9568.1 | 10° | 9688.5 | 9662.4 | 9760.0 | 9769.8 | 9756.7 | 9750.2 | 9734.0 | 9721.0 | 9607.1 |
| 9724.2 | 12.5° | 9825.0 | 9773.0 | 9883.6 | 9912.9 | 9903.1 | 9919.4 | 9880.3 | 9899.8 | 9782.8 |
| 9883.6 | 15° | 9990.9 | 9994.2 | 10078.7 | 10143.8 | 10137.3 | 10189.3 | 10130.8 | 10182.8 | 10098.2 |
| 10065.7 | 17.5° | 10244.6 | 10280.4 | 10400.7 | 10498.3 | 10534.0 | 10573.1 | 10534.0 | 10550.3 | 10430.0 |
| 9864.1 | 20° | 9977.9 | 10111.2 | 10690.1 | 10869.0 | 10943.8 | 10979.6 | 10914.5 | 10934.1 | 10813.7 |
| 9616.9 | 22.5° | 9737.2 | 9909.6 | 10423.5 | 10982.8 | 11213.8 | 11285.3 | 11262.5 | 11259.3 | 11213.8 |
| 9129.1 | 25° | 9382.7 | 9730.7 | 9961.6 | 10553.6 | 11278.8 | 11408.9 | 11421.9 | 11418.6 | 11350.4 |
| 8829.9 | 27.5° | 8946.9 | 9025.0 | 9623.4 | 9984.4 | 10823.5 | 11317.8 | 11298.3 | 11204.0 | 11112.9 |
| 8208.7 | 30° | 8390.8 | 8745.3 | 9015.2 | 9590.9 | 10234.8 | 11038.1 | 11038.1 | 10966.6 | 10872.3 |
| 7987.5 | 32.5° | 8107.9 | 8566.4 | 8816.8 | 9025.0 | 9574.6 | 10725.9 | 10856.0 | 10781.2 | 10706.4 |
| 7815.2 | 35° | 7958.3 | 8026.6 | 8612.0 | 8800.6 | 9265.7 | 10124.3 | 10651.1 | 10576.3 | 10521.0 |
| 7356.6 | 37.5° | 7629.8 | 7789.1 | 8062.3 | 8566.4 | 8709.5 | 9633.2 | 10377.9 | 10338.9 | 10273.9 |
| 6761.4 | 40° | 6898.0 | 7324.1 | 7743.6 | 8221.7 | 8371.3 | 9002.2 | 10046.2 | 10062.5 | 9974.6 |
| 6127.2 | 42.5° | 6465.5 | 6754.9 | 7411.9 | 7733.8 | 8137.1 | 8595.7 | 9724.2 | 9750.2 | 9688.5 |
| 5805.3 | 45° | 5958.1 | 6280.1 | 6741.9 | 7327.3 | 7876.9 | 8036.3 | 9155.1 | 9428.3 | 9376.2 |
| 5164.6 | 47.5° | 5493.0 | 5753.2 | 6319.1 | 6911.0 | 7519.2 | 7496.4 | 8501.4 | 9015.2 | 8943.7 |
| 4673.5 | 50° | 4832.8 | 5288.2 | 5554.8 | 6098.0 | 7005.3 | 7067.1 | 7805.4 | 8530.7 | 8472.1 |
| 3971.0 | 52.5° | 4075.1 | 4647.5 | 5158.1 | 5655.7 | 6485.0 | 6631.3 | 7158.2 | 8036.3 | 7997.3 |
| 3034.3 | 55° | 3561.2 | 3977.5 | 4553.1 | 4953.2 | 5854.0 | 6244.3 | 6673.6 | 7564.7 | 7545.2 |
| 2494.5 | 57.5° | 2533.5 | 3336.8 | 3811.6 | 4371.0 | 4845.9 | 5551.6 | 5870.3 | 6605.3 | 6423.2 |
| 1382.2 | 60° | 1717.2 | 2094.4 | 2673.3 | 3275.0 | 3593.7 | 4299.5 | 4595.4 | 5184.1 | 5135.3 |
| 826.1 | 62.5° | 907.4 | 1255.4 | 1668.4 | 1970.9 | 2201.8 | 2888.0 | 3011.6 | 3645.8 | 3629.5 |
| 331.7 | 65° | 400.0 | 530.1 | 904.1 | 1060.2 | 1297.6 | 1616.4 | 1723.7 | 1951.3 | 1896.1 |
| 162.6 | 67.5° | 208.1 | 315.5 | 510.6 | 627.7 | 790.3 | 910.6 | 998.4 | 1070.0 | 1115.5 |
| 107.3 | 70° | 126.8 | 230.9 | 315.5 | 435.8 | 543.1 | 640.7 | 709.0 | 806.6 | 865.1 |
| 55.3 | 72.5° | 94.3 | 146.4 | 217.9 | 335.0 | 393.5 | 507.4 | 575.6 | 647.2 | 699.2 |
| 45.5 | 75° | 52.0 | 97.6 | 175.6 | 263.4 | 315.5 | 413.0 | 474.8 | 523.6 | 539.9 |
| 26.0 | 77.5° | 32.5 | 74.8 | 146.4 | 204.9 | 247.2 | 335.0 | 318.7 | 364.3 | 403.3 |
| 19.5 | 80° | 22.8 | 55.3 | 113.8 | 169.1 | 172.4 | 214.6 | 253.7 | 292.7 | 318.7 |
| 13.0 | 82.5° | 16.3 | 45.5 | 84.6 | 130.1 | 113.8 | 165.9 | 198.4 | 227.7 | 165.9 |
| 9.8 | 85° | 13.0 | 32.5 | 42.3 | 78.1 | 65.0 | 117.1 | 100.8 | 97.6 | 65.0 |
| 6.5 | 87.5° | 9.8 | 16.3 | 29.3 | 35.8 | 26.0 | 26.0 | 32.5 | 39.0 | 32.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
9548.6
9311.2
9376.2
9431.5
9512.8
9678.7
9958.4
10325.9
10729.2
11067.4
11246.3
11041.4
10836.5
10644.6
10443.0
10208.8
9955.1
9681.9
9382.7
8995.7
8481.9
8023.3
7568.0
6403.7
5138.6
3632.8
1873.3
1115.5
868.4
709.0
530.1
409.8
322.0
120.3
65.0
32.5
0.0

(END OF REPORT)