

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: P638505

Luminaire Tested: **IFLD-L-SA8D-760-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638505  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-760-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42029 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

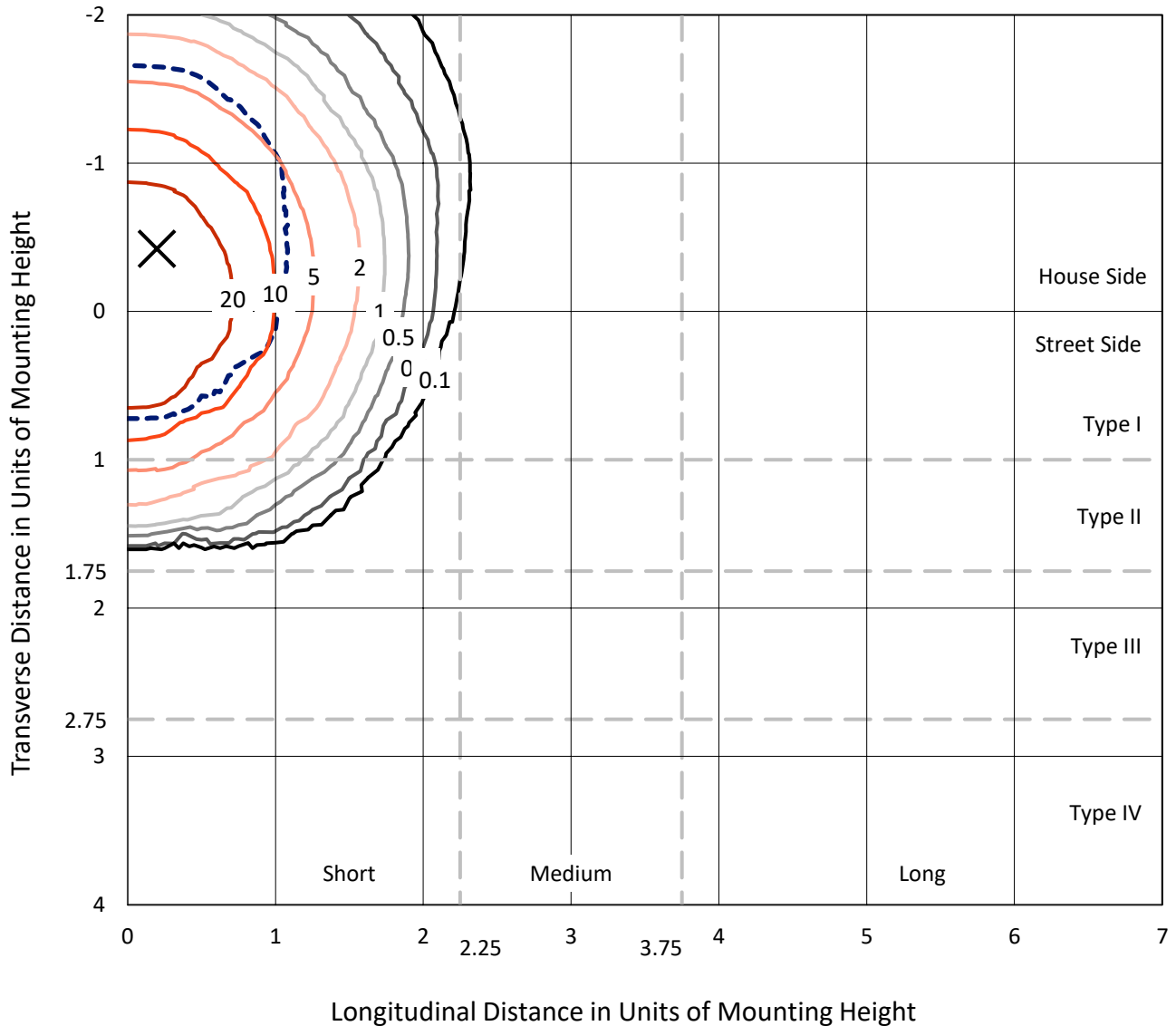
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638505  
 CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

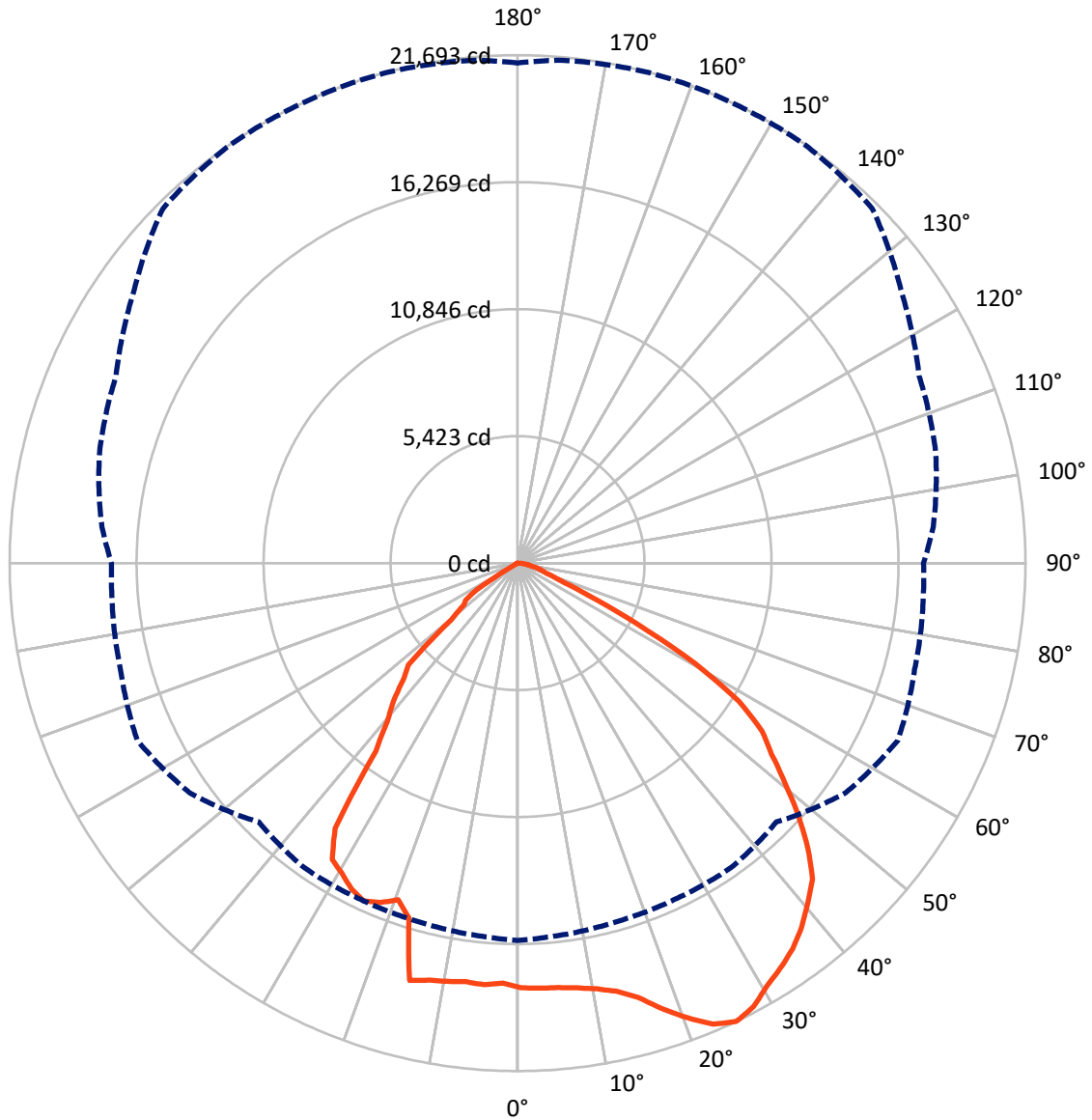
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.3 fc  
 Type I - Short - N/A

REPORT NUMBER: P638505  
CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P638505  
 CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 26020.3  | 0.0    | 26020.3 |
|                    | % Fixture | 61.9     | 0.0    | 61.9    |
| <b>Street Side</b> | Lumens    | 16008.7  | 0.0    | 16008.7 |
|                    | % Fixture | 38.1     | 0.0    | 38.1    |
| <b>Total</b>       | Lumens    | 42029.0  | 0.0    | 42029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1739.8  | 4.1       |
| 10°-20°   | 5312.4  | 12.6      |
| 20°-30°   | 8398.5  | 20.0      |
| 30°-40°   | 9486.9  | 22.6      |
| 40°-50°   | 8884.7  | 21.1      |
| 50°-60°   | 6125.3  | 14.6      |
| 60°-70°   | 1645.7  | 3.9       |
| 70°-80°   | 343.0   | 0.8       |
| 80°-90°   | 92.8    | 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°    | 42029.0 | 100.0     |
| 0°-180°   | 42029.0 | 100.0     |

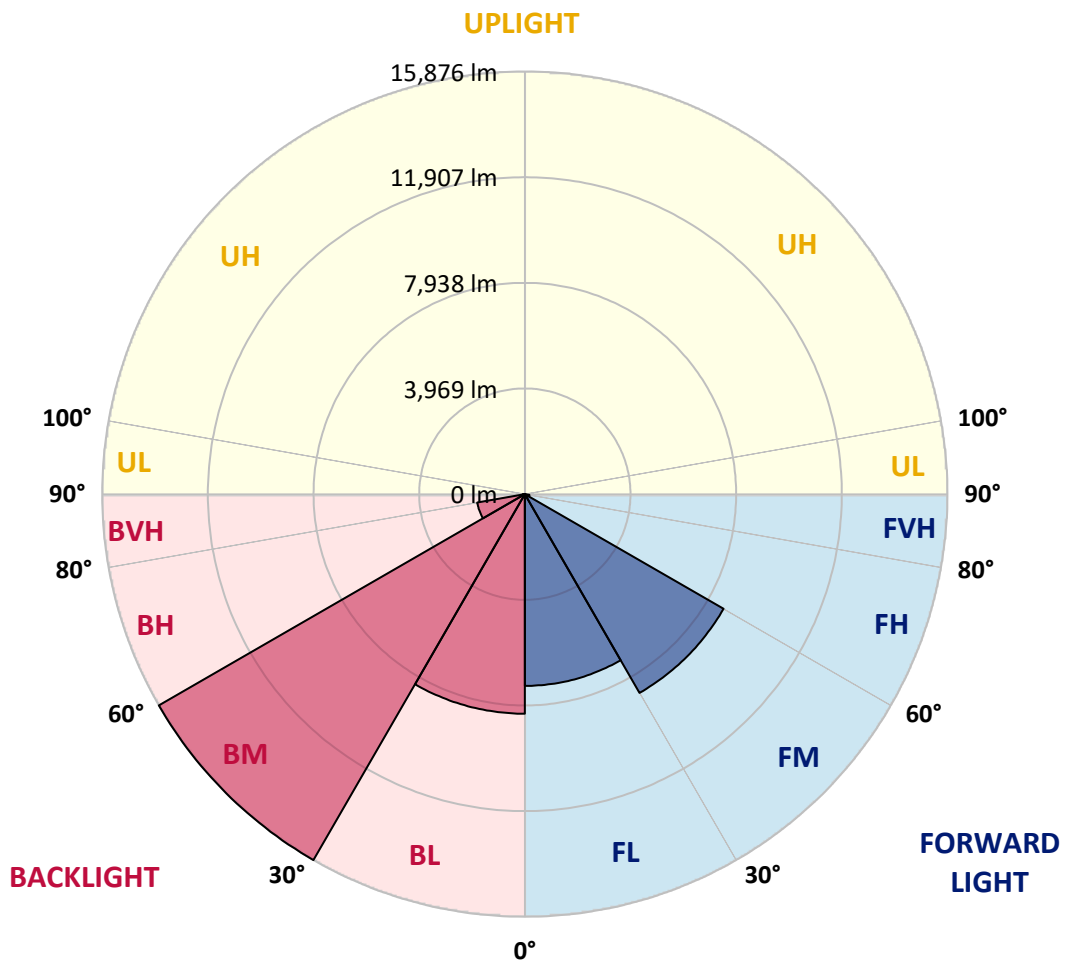


REPORT NUMBER: P638505  
 CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 7202.4  | 17.1      |                         |      |         |
| FM (30°-60°)   | 8621.1  | 20.5      |                         |      |         |
| FH (60°-80°)   | 172.8   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 12.4    | 0.0       |                         |      | G1/100  |
| BL (0°-30°)    | 8248.3  | 19.6      | B5                      |      |         |
| BM (30°-60°)   | 15875.8 | 37.8      | B5                      |      |         |
| BH (60°-80°)   | 1815.9  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 80.3    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**  
 Type I Short





REPORT NUMBER: P638505  
 CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 |
| 2.5°  | 18215.1 | 18097.7 | 17986.5 | 17949.5 | 18103.9 | 18270.6 | 18165.6 | 18171.8 | 18134.8 | 18202.7 |
| 5°    | 18350.9 | 18190.3 | 18116.2 | 18060.6 | 18085.3 | 18258.3 | 18110.0 | 18165.6 | 18103.9 | 18184.2 |
| 7.5°  | 18301.5 | 18190.3 | 18116.2 | 18011.2 | 18091.5 | 18295.3 | 18153.3 | 18159.5 | 18128.6 | 18202.7 |
| 10°   | 18270.6 | 18190.3 | 18097.7 | 18110.0 | 18202.7 | 18375.6 | 18264.5 | 18326.2 | 18283.0 | 18326.2 |
| 12.5° | 18344.8 | 18258.3 | 18208.9 | 18208.9 | 18289.2 | 18486.8 | 18431.2 | 18486.8 | 18468.3 | 18505.4 |
| 15°   | 17646.8 | 17727.1 | 18196.5 | 18406.5 | 18567.1 | 18764.8 | 18740.1 | 18795.7 | 18808.0 | 18863.6 |
| 17.5° | 14885.8 | 14805.5 | 14768.5 | 15849.4 | 18721.5 | 19333.0 | 19314.5 | 19308.3 | 19246.6 | 19203.3 |
| 20°   | 15250.2 | 15219.4 | 15176.1 | 15256.4 | 15577.6 | 19629.5 | 19753.0 | 18993.3 | 18771.0 | 18752.4 |
| 22.5° | 15830.8 | 15781.4 | 15620.8 | 15627.0 | 15725.8 | 17066.2 | 19141.6 | 18449.8 | 18375.6 | 18332.4 |
| 25°   | 16115.0 | 16016.2 | 15886.4 | 15849.4 | 15880.3 | 15633.2 | 17097.1 | 17918.6 | 17554.1 | 17387.4 |
| 27.5° | 15614.7 | 15620.8 | 15515.8 | 15614.7 | 15497.3 | 14385.5 | 13761.7 | 16880.9 | 16868.5 | 16794.4 |
| 30°   | 15237.9 | 15219.4 | 15095.8 | 15219.4 | 14410.2 | 13168.7 | 12903.1 | 15744.4 | 15614.7 | 15515.8 |
| 32.5° | 14082.8 | 14095.2 | 14453.4 | 14935.2 | 13607.2 | 12625.1 | 11822.2 | 14064.3 | 15293.5 | 15237.9 |
| 35°   | 10074.2 | 10098.9 | 11371.3 | 13749.3 | 12390.4 | 11544.2 | 11482.5 | 12155.7 | 14787.0 | 14811.7 |
| 37.5° | 9697.4  | 9697.4  | 9666.5  | 10055.6 | 11433.0 | 11105.7 | 11229.2 | 11161.3 | 13545.5 | 13607.2 |
| 40°   | 9425.6  | 9370.0  | 9326.8  | 8715.3  | 7949.4  | 10796.8 | 10883.3 | 10574.5 | 12804.3 | 12816.6 |
| 42.5° | 9098.3  | 9036.5  | 9048.8  | 7918.5  | 7115.5  | 10030.9 | 9790.0  | 9376.2  | 11568.9 | 11581.3 |
| 45°   | 8499.1  | 8604.1  | 8678.2  | 6930.2  | 6868.5  | 7165.0  | 9030.3  | 8770.9  | 10735.1 | 10963.6 |
| 47.5° | 4323.7  | 4416.3  | 6775.8  | 6374.3  | 6516.4  | 6368.2  | 7628.2  | 7634.4  | 8931.5  | 9691.2  |
| 50°   | 3922.2  | 3897.5  | 3903.7  | 3718.4  | 6016.1  | 5151.4  | 5515.8  | 6998.2  | 7152.6  | 8239.7  |
| 52.5° | 3656.6  | 3650.4  | 3273.6  | 2909.2  | 3780.1  | 4533.7  | 4002.5  | 5064.9  | 5318.1  | 6979.7  |
| 55°   | 2705.4  | 2903.0  | 2581.9  | 2736.3  | 2365.7  | 3631.9  | 3613.4  | 4570.7  | 4657.2  | 5596.1  |
| 57.5° | 24.7    | 30.9    | 74.1    | 2081.5  | 1636.8  | 1815.9  | 2495.4  | 3119.2  | 3273.6  | 4360.7  |
| 60°   | 6.2     | 12.4    | 30.9    | 61.8    | 1062.4  | 1118.0  | 1667.7  | 1803.6  | 2032.1  | 2600.4  |
| 62.5° | 0.0     | 0.0     | 12.4    | 30.9    | 55.6    | 457.1   | 531.2   | 580.6   | 895.6   | 1328.0  |
| 65°   | 0.0     | 0.0     | 6.2     | 18.5    | 30.9    | 74.1    | 129.7   | 271.8   | 389.1   | 481.8   |
| 67.5° | 0.0     | 0.0     | 6.2     | 12.4    | 24.7    | 37.1    | 74.1    | 105.0   | 166.8   | 284.1   |
| 70°   | 0.0     | 0.0     | 6.2     | 12.4    | 18.5    | 30.9    | 49.4    | 74.1    | 98.8    | 142.1   |
| 72.5° | 0.0     | 0.0     | 6.2     | 12.4    | 12.4    | 37.1    | 37.1    | 55.6    | 74.1    | 92.7    |
| 75°   | 0.0     | 0.0     | 6.2     | 6.2     | 12.4    | 24.7    | 37.1    | 43.2    | 49.4    | 74.1    |
| 77.5° | 0.0     | 0.0     | 6.2     | 12.4    | 18.5    | 24.7    | 30.9    | 49.4    | 43.2    | 43.2    |
| 80°   | 0.0     | 0.0     | 6.2     | 18.5    | 18.5    | 30.9    | 37.1    | 49.4    | 30.9    | 30.9    |
| 82.5° | 0.0     | 0.0     | 6.2     | 24.7    | 18.5    | 61.8    | 61.8    | 67.9    | 24.7    | 24.7    |
| 85°   | 0.0     | 0.0     | 18.5    | 12.4    | 37.1    | 61.8    | 55.6    | 37.1    | 30.9    | 18.5    |
| 87.5° | 0.0     | 0.0     | 6.2     | 6.2     | 12.4    | 18.5    | 43.2    | 37.1    | 12.4    | 12.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P638505

CATALOG NUMBER: IFLD-L-SA8D-760-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 18134.8 | 0°    | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 | 18134.8 |
| 18023.6 | 2.5°  | 18270.6 | 18190.3 | 18357.1 | 18338.6 | 18258.3 | 18221.2 | 18178.0 | 18140.9 | 17869.2 |
| 18035.9 | 5°    | 18276.8 | 18153.3 | 18357.1 | 18320.1 | 18307.7 | 18245.9 | 18208.9 | 18264.5 | 18017.4 |
| 18085.3 | 7.5°  | 18276.8 | 18153.3 | 18375.6 | 18388.0 | 18369.5 | 18320.1 | 18313.9 | 18350.9 | 18147.1 |
| 18171.8 | 10°   | 18400.4 | 18350.9 | 18536.2 | 18554.8 | 18530.1 | 18517.7 | 18486.8 | 18462.1 | 18245.9 |
| 18468.3 | 12.5° | 18659.8 | 18560.9 | 18771.0 | 18826.5 | 18808.0 | 18838.9 | 18764.8 | 18801.8 | 18579.5 |
| 18771.0 | 15°   | 18974.8 | 18981.0 | 19141.6 | 19265.1 | 19252.7 | 19351.6 | 19240.4 | 19339.2 | 19178.6 |
| 19116.8 | 17.5° | 19456.6 | 19524.5 | 19753.0 | 19938.3 | 20006.3 | 20080.4 | 20006.3 | 20037.2 | 19808.6 |
| 18733.9 | 20°   | 18950.1 | 19203.3 | 20302.8 | 20642.5 | 20784.6 | 20852.5 | 20729.0 | 20766.0 | 20537.5 |
| 18264.5 | 22.5° | 18493.0 | 18820.4 | 19796.3 | 20858.7 | 21297.2 | 21433.1 | 21389.9 | 21383.7 | 21297.2 |
| 17338.0 | 25°   | 17819.7 | 18480.6 | 18919.2 | 20043.4 | 21420.8 | 21667.8 | 21692.5 | 21686.3 | 21556.6 |
| 16769.7 | 27.5° | 16992.1 | 17140.3 | 18276.8 | 18962.4 | 20556.0 | 21494.9 | 21457.8 | 21278.7 | 21105.7 |
| 15590.0 | 30°   | 15935.9 | 16609.1 | 17121.8 | 18215.1 | 19438.0 | 20963.7 | 20963.7 | 20827.8 | 20648.7 |
| 15169.9 | 32.5° | 15398.5 | 16269.4 | 16745.0 | 17140.3 | 18184.2 | 20370.7 | 20617.8 | 20475.7 | 20333.7 |
| 14842.6 | 35°   | 15114.4 | 15244.1 | 16355.9 | 16714.1 | 17597.4 | 19228.0 | 20228.7 | 20086.6 | 19981.6 |
| 13971.7 | 37.5° | 14490.5 | 14793.2 | 15312.0 | 16269.4 | 16541.2 | 18295.3 | 19709.8 | 19635.7 | 19512.2 |
| 12841.3 | 40°   | 13100.8 | 13909.9 | 14706.7 | 15614.7 | 15898.8 | 17097.1 | 19079.8 | 19110.7 | 18943.9 |
| 11636.9 | 42.5° | 12279.3 | 12829.0 | 14076.7 | 14688.2 | 15454.1 | 16325.0 | 18468.3 | 18517.7 | 18400.4 |
| 11025.4 | 45°   | 11315.7 | 11927.2 | 12804.3 | 13916.1 | 14959.9 | 15262.6 | 17387.4 | 17906.2 | 17807.4 |
| 9808.6  | 47.5° | 10432.4 | 10926.6 | 12001.3 | 13125.5 | 14280.5 | 14237.3 | 16145.9 | 17121.8 | 16985.9 |
| 8875.9  | 50°   | 9178.6  | 10043.3 | 10549.8 | 11581.3 | 13304.6 | 13421.9 | 14824.0 | 16201.5 | 16090.3 |
| 7541.7  | 52.5° | 7739.4  | 8826.5  | 9796.2  | 10741.3 | 12316.3 | 12594.3 | 13594.9 | 15262.6 | 15188.5 |
| 5762.8  | 55°   | 6763.5  | 7554.1  | 8647.4  | 9407.1  | 11118.0 | 11859.2 | 12674.6 | 14367.0 | 14329.9 |
| 4737.5  | 57.5° | 4811.6  | 6337.3  | 7239.1  | 8301.5  | 9203.3  | 10543.6 | 11148.9 | 12544.9 | 12199.0 |
| 2625.1  | 60°   | 3261.3  | 3977.8  | 5077.2  | 6219.9  | 6825.2  | 8165.6  | 8727.7  | 9845.6  | 9753.0  |
| 1568.9  | 62.5° | 1723.3  | 2384.2  | 3168.6  | 3743.1  | 4181.6  | 5484.9  | 5719.6  | 6924.1  | 6893.2  |
| 630.0   | 65°   | 759.7   | 1006.8  | 1717.1  | 2013.6  | 2464.5  | 3069.8  | 3273.6  | 3706.0  | 3601.0  |
| 308.8   | 67.5° | 395.3   | 599.1   | 969.7   | 1192.1  | 1500.9  | 1729.5  | 1896.2  | 2032.1  | 2118.6  |
| 203.8   | 70°   | 240.9   | 438.5   | 599.1   | 827.7   | 1031.5  | 1216.8  | 1346.5  | 1531.8  | 1643.0  |
| 105.0   | 72.5° | 179.1   | 278.0   | 413.8   | 636.2   | 747.4   | 963.6   | 1093.3  | 1229.2  | 1328.0  |
| 86.5    | 75°   | 98.8    | 185.3   | 333.5   | 500.3   | 599.1   | 784.4   | 901.8   | 994.4   | 1025.3  |
| 49.4    | 77.5° | 61.8    | 142.1   | 278.0   | 389.1   | 469.4   | 636.2   | 605.3   | 691.8   | 765.9   |
| 37.1    | 80°   | 43.2    | 105.0   | 216.2   | 321.2   | 327.4   | 407.7   | 481.8   | 555.9   | 605.3   |
| 24.7    | 82.5° | 30.9    | 86.5    | 160.6   | 247.1   | 216.2   | 315.0   | 376.8   | 432.4   | 315.0   |
| 18.5    | 85°   | 24.7    | 61.8    | 80.3    | 148.2   | 123.5   | 222.4   | 191.5   | 185.3   | 123.5   |
| 12.4    | 87.5° | 18.5    | 30.9    | 55.6    | 67.9    | 49.4    | 49.4    | 61.8    | 74.1    | 61.8    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
18134.8  
17683.9  
17807.4  
17912.4  
18066.8  
18381.8  
18913.0  
19611.0  
20376.9  
21019.3  
*21359.0*  
20969.9  
20580.7  
20216.3  
19833.3  
19388.6  
18906.8  
18388.0  
17819.7  
17084.7  
16108.8  
15237.9  
14373.2  
12161.9  
9759.2  
6899.4  
3557.8  
2118.6  
1649.2  
1346.5  
1006.8  
778.3  
611.5  
228.5  
123.5  
61.8  
0.0

(END OF REPORT)