

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: P637591

Luminaire Tested: **IFLD-S-SA6D-730-U-55-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637591  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

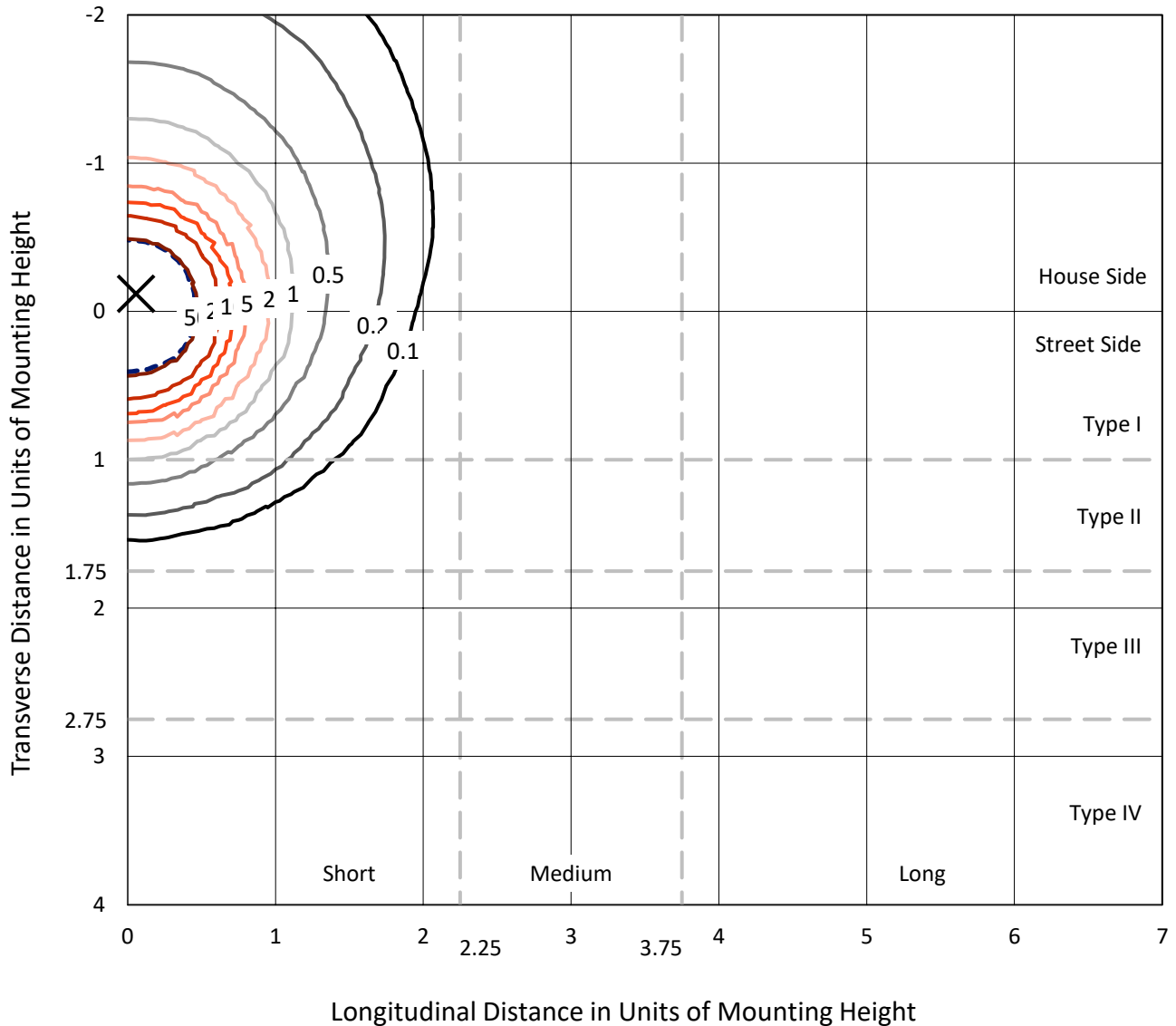
Lumens per Lamp: N/A  
Luminaire Lumens: 39108.8 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): 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

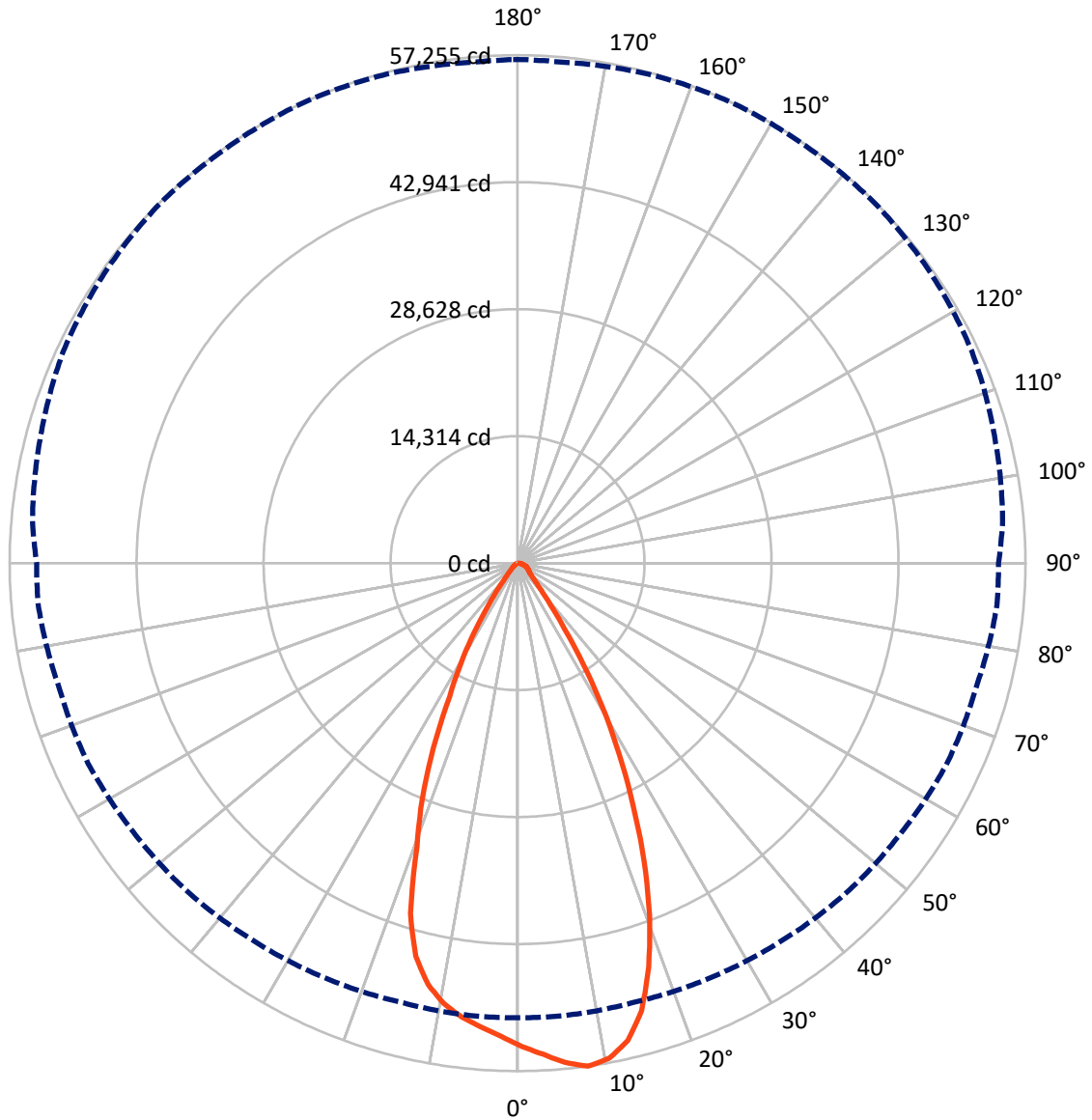
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 138.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P637591  
CATALOG NUMBER: IFLD-S-SA6D-730-U-55-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical

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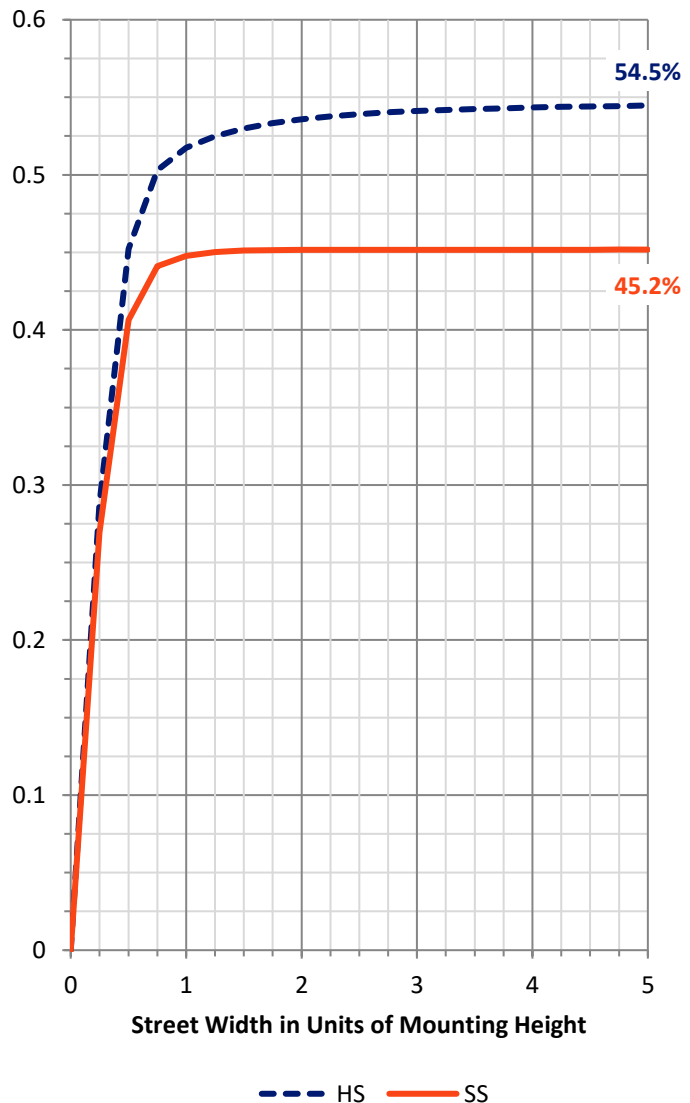
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21589.5  | 0.0    | 21589.5 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 17519.3  | 0.0    | 17519.3 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 39108.8  | 0.0    | 39108.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 5195.2  | 13.3      |
| 10°-20°   | 13471.1 | 34.4      |
| 20°-30°   | 12343.3 | 31.6      |
| 30°-40°   | 4986.7  | 12.8      |
| 40°-50°   | 1462.9  | 3.7       |
| 50°-60°   | 817.9   | 2.1       |
| 60°-70°   | 496.8   | 1.3       |
| 70°-80°   | 252.4   | 0.6       |
| 80°-90°   | 82.6    | 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°    | 39108.8 | 100.0     |
| 0°-180°   | 39108.8 | 100.0     |



REPORT NUMBER: P637591

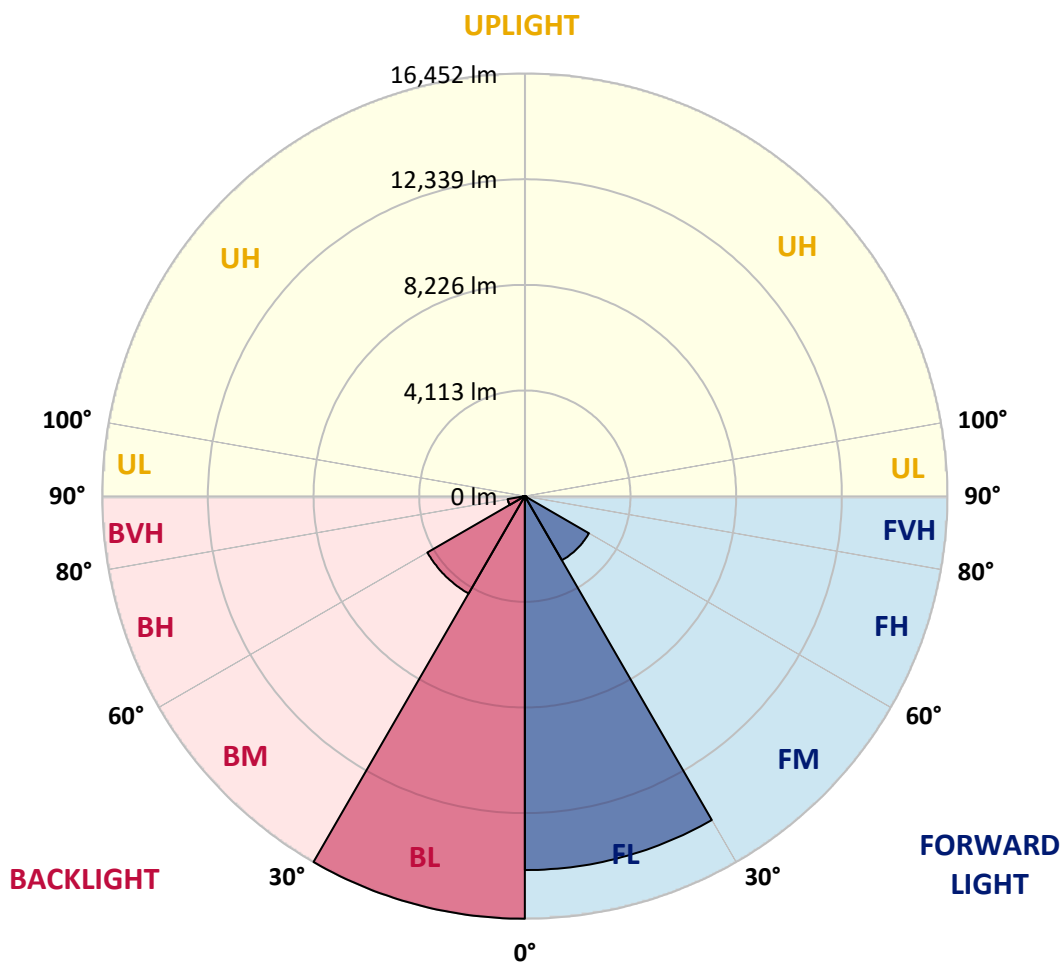
CATALOG NUMBER: IFLD-S-SA6D-730-U-55-VI

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 14557.3 | 37.2      |                         |      |         |
| FM (30°-60°)   | 2885.0  | 7.4       |                         |      |         |
| FH (60°-80°)   | 69.9    | 0.2       |                         |      | G0/660  |
| FVH (80°-90°)  | 7.1     | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 16452.3 | 42.1      | B5                      |      |         |
| BM (30°-60°)   | 4382.5  | 11.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 679.3   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 75.4    | 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-G2**

Type I Short





REPORT NUMBER: P637591  
 CATALOG NUMBER: IFLD-S-SA6D-730-U-55-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 |
| 2.5°  | 53300.1 | 53480.5 | 53119.7 | 53358.7 | 53543.6 | 53985.6 | 54021.6 | 54175.0 | 54229.1 | 54630.5 |
| 5°    | 52289.9 | 52429.7 | 52136.6 | 52456.8 | 52718.3 | 53110.7 | 53412.8 | 53836.7 | 54071.3 | 54544.8 |
| 7.5°  | 51239.2 | 51270.7 | 51212.1 | 51550.3 | 51942.7 | 52483.8 | 52858.1 | 53412.8 | 53557.1 | 54233.6 |
| 10°   | 49967.4 | 49737.4 | 49850.2 | 50346.2 | 50932.5 | 51762.3 | 52019.3 | 52574.0 | 52831.1 | 53521.1 |
| 12.5° | 47938.1 | 48055.3 | 47915.5 | 48546.9 | 49033.9 | 49976.4 | 50247.0 | 50806.2 | 51297.8 | 51906.6 |
| 15°   | 45078.9 | 45011.3 | 45295.4 | 45786.9 | 46314.6 | 47063.2 | 47500.6 | 48109.4 | 48483.7 | 49115.1 |
| 17.5° | 38652.6 | 38882.6 | 40055.1 | 41286.3 | 42368.6 | 43243.5 | 43766.6 | 44271.7 | 44542.3 | 45227.7 |
| 20°   | 33380.8 | 33092.1 | 33250.0 | 33944.5 | 37024.6 | 38364.0 | 38914.2 | 39035.9 | 39148.7 | 39689.8 |
| 22.5° | 27486.6 | 27391.9 | 27919.5 | 28699.7 | 29430.3 | 32519.4 | 33268.0 | 32983.9 | 33218.4 | 33728.0 |
| 25°   | 20410.9 | 20888.9 | 21357.9 | 22855.1 | 23802.2 | 25317.4 | 26738.0 | 26864.3 | 26949.9 | 27270.1 |
| 27.5° | 16613.7 | 16446.9 | 16437.8 | 16857.2 | 18255.2 | 19518.0 | 20726.6 | 21006.2 | 20956.6 | 21263.2 |
| 30°   | 13060.1 | 13006.0 | 12816.6 | 12915.8 | 12776.0 | 13898.9 | 14467.1 | 15617.1 | 15553.9 | 15563.0 |
| 32.5° | 9420.8  | 9217.8  | 9141.2  | 9290.0  | 9145.7  | 9041.9  | 9538.0  | 10836.8 | 10814.3 | 10904.4 |
| 35°   | 5700.3  | 5673.2  | 5736.3  | 5867.1  | 5578.5  | 5569.5  | 5673.2  | 6895.3  | 7044.1  | 7188.5  |
| 37.5° | 3147.8  | 3120.7  | 3170.3  | 3652.9  | 3558.1  | 3472.5  | 3499.5  | 4144.4  | 4572.8  | 4681.1  |
| 40°   | 2074.5  | 2070.0  | 2106.0  | 2191.7  | 2354.1  | 2322.5  | 2336.0  | 2624.6  | 3030.5  | 3125.2  |
| 42.5° | 1389.0  | 1393.5  | 1416.0  | 1515.3  | 1537.8  | 1700.2  | 1673.1  | 1740.7  | 2119.6  | 2200.7  |
| 45°   | 1109.4  | 1104.9  | 1118.4  | 1073.3  | 1100.4  | 1267.2  | 1285.3  | 1289.8  | 1614.5  | 1664.1  |
| 47.5° | 874.9   | 874.9   | 888.4   | 829.8   | 816.3   | 920.0   | 1014.7  | 1028.2  | 1289.8  | 1357.4  |
| 50°   | 613.3   | 613.3   | 681.0   | 653.9   | 685.5   | 717.0   | 820.8   | 834.3   | 1055.3  | 1127.4  |
| 52.5° | 451.0   | 460.0   | 469.0   | 473.5   | 577.2   | 572.7   | 662.9   | 726.1   | 798.2   | 924.5   |
| 55°   | 342.7   | 351.8   | 329.2   | 351.8   | 428.4   | 478.0   | 496.1   | 586.3   | 635.9   | 775.7   |
| 57.5° | 225.5   | 248.0   | 230.0   | 270.6   | 288.6   | 369.8   | 396.9   | 482.5   | 514.1   | 635.9   |
| 60°   | 31.6    | 36.1    | 58.6    | 189.4   | 202.9   | 243.5   | 306.7   | 383.3   | 414.9   | 518.6   |
| 62.5° | 4.5     | 4.5     | 13.5    | 31.6    | 135.3   | 162.3   | 230.0   | 266.1   | 306.7   | 387.8   |
| 65°   | 0.0     | 0.0     | 4.5     | 9.0     | 27.1    | 94.7    | 117.3   | 144.3   | 212.0   | 279.6   |
| 67.5° | 0.0     | 0.0     | 4.5     | 9.0     | 13.5    | 31.6    | 49.6    | 94.7    | 121.8   | 193.9   |
| 70°   | 0.0     | 0.0     | 4.5     | 9.0     | 13.5    | 18.0    | 27.1    | 36.1    | 72.2    | 112.7   |
| 72.5° | 0.0     | 0.0     | 4.5     | 9.0     | 13.5    | 18.0    | 22.5    | 27.1    | 31.6    | 72.2    |
| 75°   | 0.0     | 0.0     | 4.5     | 9.0     | 13.5    | 22.5    | 27.1    | 27.1    | 27.1    | 31.6    |
| 77.5° | 0.0     | 0.0     | 4.5     | 9.0     | 18.0    | 27.1    | 31.6    | 27.1    | 22.5    | 22.5    |
| 80°   | 0.0     | 0.0     | 4.5     | 13.5    | 22.5    | 31.6    | 36.1    | 27.1    | 18.0    | 13.5    |
| 82.5° | 0.0     | 0.0     | 4.5     | 13.5    | 22.5    | 31.6    | 36.1    | 31.6    | 18.0    | 13.5    |
| 85°   | 0.0     | 0.0     | 4.5     | 13.5    | 18.0    | 22.5    | 36.1    | 31.6    | 18.0    | 9.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.5     | 4.5     | 9.0     | 18.0    | 13.5    | 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: P637591

CATALOG NUMBER: IFLD-S-SA6D-730-U-55-VI

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 54481.6 | 0°    | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 | 54481.6 |
| 54621.4 | 2.5°  | 55027.3 | 55230.2 | 55586.5 | 55685.7 | 55992.4 | 55640.6 | 55446.7 | 55464.7 | 55045.3 |
| 54486.1 | 5°    | 55027.3 | 55491.8 | 56114.1 | 56411.8 | 56637.3 | 56619.2 | 56569.6 | 56443.4 | 56136.7 |
| 54215.6 | 7.5°  | 54883.0 | 55640.6 | 56497.5 | 56894.3 | 57164.9 | 57142.4 | 57255.1 | 57052.2 | 56677.9 |
| 53733.0 | 10°   | 54418.5 | 55076.9 | 56132.2 | 56456.9 | 56894.3 | 56903.3 | 56763.5 | 56804.1 | 56136.7 |
| 51969.7 | 12.5° | 52957.4 | 53471.5 | 54395.9 | 54765.7 | 55297.9 | 55383.6 | 55230.2 | 55171.6 | 54540.3 |
| 49079.0 | 15°   | 50129.8 | 50427.4 | 51356.4 | 51726.2 | 52253.8 | 52181.7 | 52335.0 | 52271.9 | 51717.2 |
| 45173.6 | 17.5° | 45994.4 | 46089.1 | 47063.2 | 47374.4 | 47870.4 | 48064.3 | 47834.3 | 48127.5 | 47649.4 |
| 39784.5 | 20°   | 40064.1 | 40573.7 | 41669.6 | 42147.6 | 42436.2 | 42783.5 | 42481.3 | 42810.5 | 42251.3 |
| 33245.5 | 22.5° | 34048.2 | 34350.4 | 35342.5 | 36032.5 | 36569.1 | 36636.8 | 36524.0 | 36754.0 | 36000.9 |
| 27482.1 | 25°   | 27477.6 | 27978.2 | 28762.8 | 29664.8 | 30192.4 | 30517.1 | 30224.0 | 30372.8 | 30251.0 |
| 21312.8 | 27.5° | 21673.6 | 22120.1 | 22710.8 | 23382.8 | 24176.5 | 24600.4 | 24365.9 | 24618.4 | 24023.1 |
| 15892.2 | 30°   | 15905.7 | 16131.2 | 16798.6 | 17511.1 | 18381.5 | 18895.6 | 18918.2 | 19175.2 | 18823.5 |
| 11134.4 | 32.5° | 11215.6 | 11414.0 | 11824.4 | 12297.9 | 13127.7 | 13700.5 | 13610.3 | 13646.3 | 13429.9 |
| 7256.1  | 35°   | 7292.2  | 7558.2  | 7851.4  | 8076.9  | 8577.4  | 9208.8  | 9159.2  | 9114.1  | 8965.3  |
| 4771.3  | 37.5° | 4875.0  | 4978.7  | 5141.1  | 5344.0  | 5668.7  | 6065.5  | 6196.3  | 6034.0  | 5970.8  |
| 3219.9  | 40°   | 3296.6  | 3477.0  | 3585.2  | 3738.5  | 3891.9  | 4225.6  | 4315.8  | 4284.2  | 4221.1  |
| 2254.8  | 42.5° | 2340.5  | 2480.3  | 2615.6  | 2764.4  | 2845.6  | 3053.1  | 3228.9  | 3179.3  | 3152.3  |
| 1713.7  | 45°   | 1776.8  | 1903.1  | 2060.9  | 2173.7  | 2254.8  | 2376.6  | 2543.5  | 2561.5  | 2520.9  |
| 1375.5  | 47.5° | 1425.1  | 1537.8  | 1664.1  | 1803.9  | 1898.6  | 1975.2  | 2119.6  | 2173.7  | 2146.6  |
| 1159.0  | 50°   | 1208.6  | 1294.3  | 1416.0  | 1555.8  | 1659.6  | 1727.2  | 1853.5  | 1912.1  | 1894.1  |
| 969.6   | 52.5° | 1028.2  | 1131.9  | 1244.7  | 1361.9  | 1488.2  | 1555.8  | 1673.1  | 1758.8  | 1745.3  |
| 802.7   | 55°   | 852.3   | 987.6   | 1104.9  | 1222.1  | 1366.4  | 1434.1  | 1537.8  | 1650.5  | 1628.0  |
| 681.0   | 57.5° | 744.1   | 856.8   | 978.6   | 1091.3  | 1244.7  | 1334.9  | 1429.6  | 1546.8  | 1542.3  |
| 559.2   | 60°   | 622.3   | 735.1   | 870.4   | 965.1   | 1127.4  | 1253.7  | 1339.4  | 1461.1  | 1470.2  |
| 423.9   | 62.5° | 496.1   | 635.9   | 739.6   | 870.4   | 1019.2  | 1168.0  | 1249.2  | 1370.9  | 1416.0  |
| 324.7   | 65°   | 369.8   | 523.1   | 640.4   | 771.2   | 911.0   | 1077.8  | 1150.0  | 1271.7  | 1316.8  |
| 234.5   | 67.5° | 275.1   | 392.3   | 541.2   | 653.9   | 811.7   | 956.1   | 1041.7  | 1154.5  | 1186.0  |
| 139.8   | 70°   | 207.4   | 302.1   | 451.0   | 550.2   | 712.5   | 829.8   | 915.5   | 1001.2  | 1041.7  |
| 94.7    | 72.5° | 121.8   | 225.5   | 356.3   | 473.5   | 613.3   | 712.5   | 775.7   | 843.3   | 870.4   |
| 45.1    | 75°   | 85.7    | 171.4   | 279.6   | 392.3   | 496.1   | 577.2   | 635.9   | 694.5   | 721.6   |
| 22.5    | 77.5° | 45.1    | 126.3   | 221.0   | 315.7   | 387.8   | 455.5   | 514.1   | 559.2   | 577.2   |
| 18.0    | 80°   | 27.1    | 90.2    | 180.4   | 248.0   | 297.6   | 356.3   | 414.9   | 446.5   | 442.0   |
| 13.5    | 82.5° | 18.0    | 72.2    | 130.8   | 180.4   | 216.5   | 261.6   | 302.1   | 324.7   | 324.7   |
| 9.0     | 85°   | 13.5    | 49.6    | 90.2    | 139.8   | 144.3   | 180.4   | 189.4   | 212.0   | 216.5   |
| 9.0     | 87.5° | 9.0     | 31.6    | 49.6    | 81.2    | 76.7    | 94.7    | 99.2    | 112.7   | 121.8   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
54481.6  
54707.1  
56235.9  
56763.5  
55942.8  
54395.9  
51893.1  
47532.2  
42206.2  
35897.2  
30174.4  
24176.5  
18886.6  
13551.6  
8834.5  
5957.3  
4230.1  
3129.7  
2516.4  
2133.1  
1889.6  
1736.2  
1628.0  
1537.8  
1470.2  
1411.5  
1312.3  
1186.0  
1032.7  
861.4  
712.5  
572.7  
437.4  
320.2  
212.0  
117.3  
0.0

(END OF REPORT)