

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: P477356

Luminaire Tested: **IFLD-S-SA6E-735-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477356  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

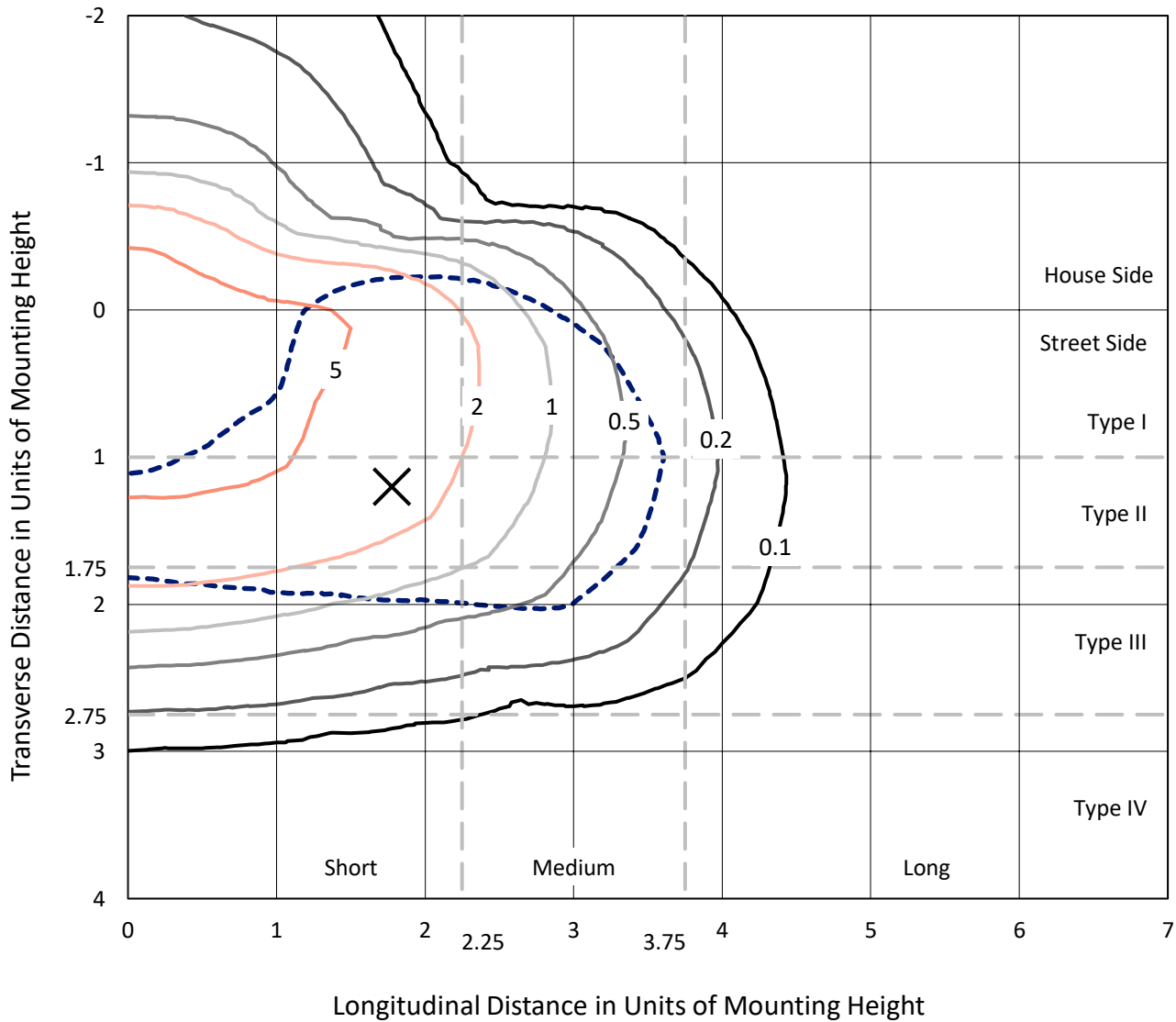
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53154.6 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 464.2  
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: 24 FT

REPORT NUMBER: P477356  
 CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

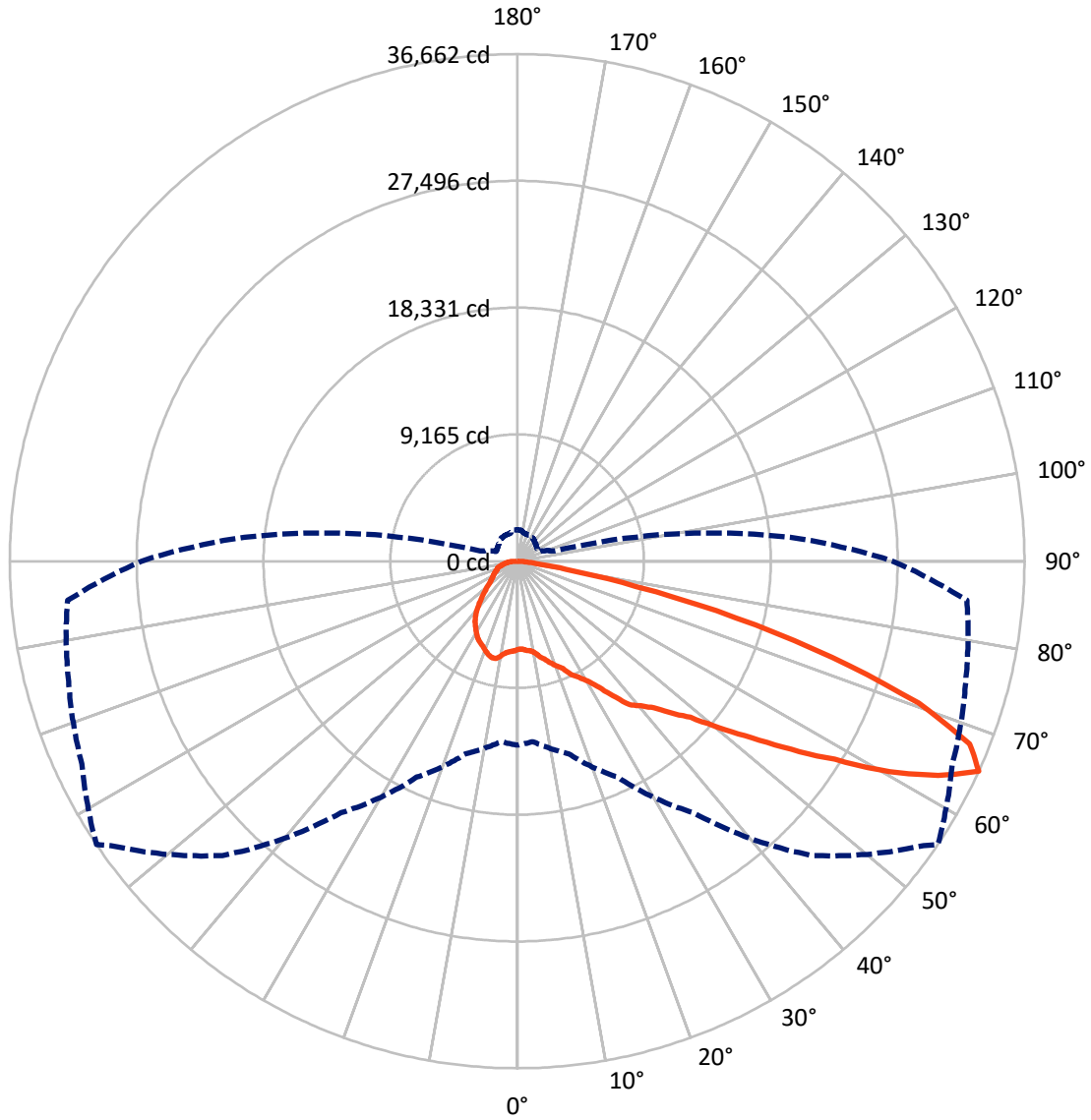
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P477356  
CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477356  
 CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

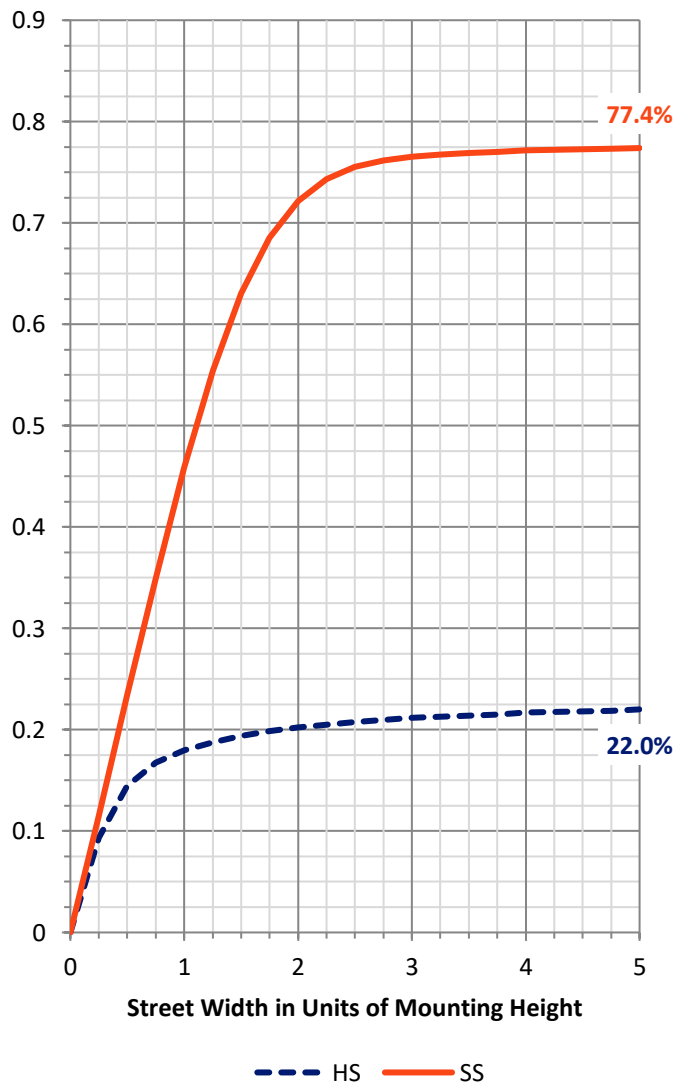
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11920.9  | 0.0    | 11920.9 |
|                    | % Fixture | 22.4     | 0.0    | 22.4    |
| <b>Street Side</b> | Lumens    | 41233.8  | 0.0    | 41233.8 |
|                    | % Fixture | 77.6     | 0.0    | 77.6    |
| <b>Total</b>       | Lumens    | 53154.6  | 0.0    | 53154.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 632.2   | 1.2       |
| 10°-20°   | 2053.0  | 3.9       |
| 20°-30°   | 3655.5  | 6.9       |
| 30°-40°   | 5473.9  | 10.3      |
| 40°-50°   | 8110.3  | 15.3      |
| 50°-60°   | 12496.8 | 23.5      |
| 60°-70°   | 14148.0 | 26.6      |
| 70°-80°   | 5871.6  | 11.0      |
| 80°-90°   | 713.3   | 1.3       |
| 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°    | 53154.6 | 100.0     |
| 0°-180°   | 53154.6 | 100.0     |

**Coefficient of Utilization**

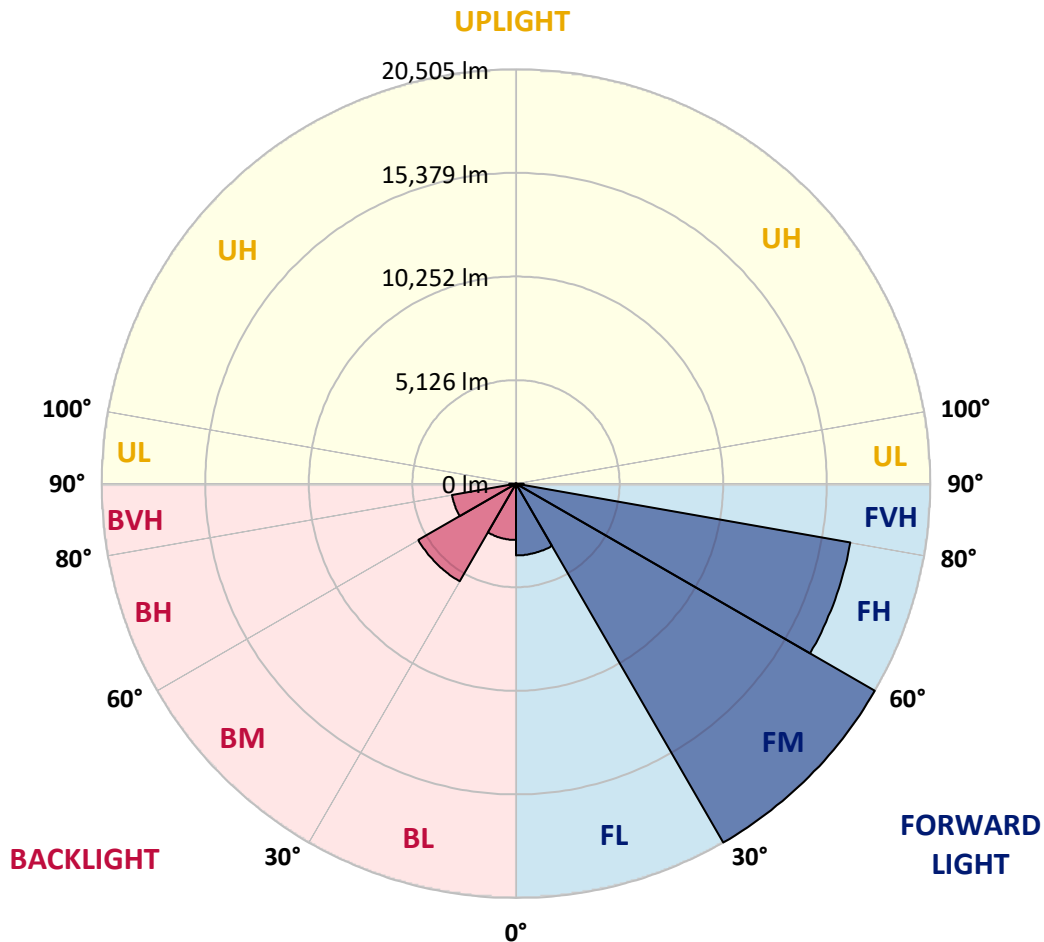


REPORT NUMBER: P477356  
 CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3552.3  | 6.7       |                         |      |         |
| FM (30°-60°)   | 20504.7 | 38.6      |                         |      |         |
| FH (60°-80°)   | 16800.5 | 31.6      |                         |      | G5      |
| FVH (80°-90°)  | 376.3   | 0.7       |                         |      | G3/500  |
| BL (0°-30°)    | 2788.4  | 5.2       | B4/5000                 |      |         |
| BM (30°-60°)   | 5576.4  | 10.5      | B4/8500                 |      |         |
| BH (60°-80°)   | 3219.0  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 337.1   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Short





REPORT NUMBER: P477356  
 CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  | 6380.1  |
| 2.5°  | 6213.2  | 6246.6  | 6224.3  | 6291.1  | 6346.7  | 6346.7  | 6391.2  | 6357.8  | 6402.3  | 6463.5  |
| 5°    | 6419.0  | 6285.5  | 6357.8  | 6391.2  | 6374.5  | 6402.3  | 6357.8  | 6469.1  | 6396.8  | 6513.6  |
| 7.5°  | 6469.1  | 6519.1  | 6580.3  | 6524.7  | 6574.8  | 6546.9  | 6552.5  | 6535.8  | 6496.9  | 6591.4  |
| 10°   | 6836.2  | 6763.9  | 6902.9  | 6819.5  | 6808.4  | 6797.2  | 6775.0  | 6691.6  | 6786.1  | 6791.7  |
| 12.5° | 7258.9  | 7192.2  | 7186.6  | 7119.9  | 7208.9  | 7047.6  | 7080.9  | 7036.4  | 7053.1  | 7075.4  |
| 15°   | 7564.9  | 7537.0  | 7665.0  | 7587.1  | 7470.3  | 7398.0  | 7475.9  | 7353.5  | 7414.7  | 7403.6  |
| 17.5° | 8171.2  | 8165.6  | 8071.0  | 7943.1  | 7876.4  | 7770.7  | 7754.0  | 7703.9  | 7748.4  | 7726.2  |
| 20°   | 8593.9  | 8655.1  | 8671.8  | 8521.6  | 8265.7  | 8148.9  | 8121.1  | 8082.2  | 8132.2  | 8115.5  |
| 22.5° | 9239.1  | 9144.6  | 9216.9  | 8955.5  | 8860.9  | 8582.8  | 8482.7  | 8427.0  | 8666.2  | 8605.0  |
| 25°   | 9650.8  | 9750.9  | 9678.6  | 9589.6  | 9378.2  | 9033.3  | 8961.0  | 9083.4  | 9178.0  | 9111.2  |
| 27.5° | 10579.7 | 10479.6 | 10412.8 | 10145.8 | 10006.8 | 9645.2  | 9561.8  | 9517.3  | 9539.5  | 9578.4  |
| 30°   | 11286.1 | 11341.7 | 11191.5 | 11002.4 | 10652.0 | 10284.9 | 10090.2 | 10051.3 | 9973.4  | 9906.6  |
| 32.5° | 12292.9 | 12209.5 | 12120.5 | 11998.1 | 11697.7 | 11213.8 | 11024.7 | 10880.0 | 10646.4 | 10334.9 |
| 35°   | 12776.8 | 13016.0 | 12949.3 | 12621.1 | 12393.0 | 12209.5 | 12153.8 | 11931.3 | 11736.7 | 11247.2 |
| 37.5° | 13583.4 | 13683.5 | 13588.9 | 13483.3 | 13377.6 | 13182.9 | 13116.1 | 13177.3 | 12793.5 | 11987.0 |
| 40°   | 14106.2 | 14317.6 | 14512.3 | 14217.5 | 14195.2 | 14234.2 | 13822.6 | 13750.2 | 12960.4 | 12537.6 |
| 42.5° | 15174.2 | 15263.2 | 15302.2 | 15291.0 | 15419.0 | 15419.0 | 14634.7 | 14478.9 | 13917.1 | 13572.2 |
| 45°   | 16587.1 | 16659.4 | 16798.4 | 16898.6 | 16753.9 | 16826.3 | 15708.2 | 15647.0 | 15146.4 | 15079.7 |
| 47.5° | 17810.8 | 17983.2 | 18294.7 | 18589.5 | 18778.7 | 18533.9 | 17310.2 | 16876.3 | 16748.4 | 17148.9 |
| 50°   | 18878.8 | 18673.0 | 19401.6 | 19702.0 | 20530.8 | 20936.9 | 19079.0 | 18906.6 | 18700.8 | 19468.4 |
| 52.5° | 18984.5 | 19262.6 | 20291.6 | 20892.4 | 22600.0 | 23350.9 | 21248.4 | 21176.0 | 20925.7 | 21810.2 |
| 55°   | 19740.9 | 19707.6 | 20742.2 | 22043.8 | 24074.1 | 25336.7 | 24074.1 | 24029.6 | 23484.4 | 24324.4 |
| 57.5° | 19613.0 | 19952.3 | 20770.0 | 22588.9 | 25403.5 | 27467.1 | 27350.3 | 27044.4 | 26282.3 | 26966.5 |
| 60°   | 19179.1 | 19268.1 | 20263.8 | 22572.2 | 26176.6 | 29653.1 | 30888.0 | 30949.2 | 29391.7 | 29936.8 |
| 62.5° | 16720.6 | 16926.4 | 18189.0 | 20797.8 | 25626.0 | 31160.6 | 34342.2 | 34125.3 | 32879.3 | 32256.3 |
| 65°   | 13299.7 | 13093.9 | 14406.6 | 17226.7 | 22199.5 | 30092.6 | 35855.2 | 36661.8 | 34703.8 | 33563.5 |
| 67.5° | 8154.5  | 8104.4  | 9367.1  | 11853.5 | 16609.3 | 25609.3 | 34648.2 | 35276.7 | 34197.6 | 33285.4 |
| 70°   | 4199.6  | 4071.7  | 4861.5  | 6613.7  | 10440.6 | 18789.8 | 30153.8 | 30771.2 | 31800.2 | 29853.4 |
| 72.5° | 1958.0  | 1930.2  | 2352.9  | 3254.0  | 5317.7  | 11046.9 | 23350.9 | 23795.9 | 25965.3 | 25169.8 |
| 75°   | 1151.4  | 1168.1  | 1407.3  | 1702.1  | 2592.1  | 5206.4  | 15496.8 | 16359.0 | 18711.9 | 18139.0 |
| 77.5° | 862.2   | 862.2   | 1001.2  | 1184.8  | 1513.0  | 2013.6  | 7648.3  | 8788.6  | 10941.2 | 9839.9  |
| 80°   | 634.1   | 645.2   | 767.6   | 890.0   | 1051.3  | 1040.2  | 3037.1  | 3559.9  | 5017.3  | 4288.6  |
| 82.5° | 495.1   | 511.7   | 595.2   | 661.9   | 739.8   | 628.6   | 1246.0  | 1340.5  | 2063.6  | 1640.9  |
| 85°   | 344.9   | 356.0   | 467.2   | 450.6   | 450.6   | 350.4   | 517.3   | 545.1   | 817.7   | 778.7   |
| 87.5° | 83.4    | 94.6    | 228.1   | 250.3   | 189.1   | 105.7   | 161.3   | 183.6   | 294.8   | 339.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P477356  
 CATALOG NUMBER: IFLD-S-SA6E-735-U-T3

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6380.1  | 0°    | 6380.1  | 6380.1  | 6380.1 | 6380.1 | 6380.1 | 6380.1 | 6380.1 | 6380.1 | 6380.1 | 6380.1 |
| 6491.3  | 2.5°  | 6407.9  | 6430.1  | 6524.7 | 6474.6 | 6502.4 | 6385.6 | 6480.2 | 6402.3 | 6469.1 | 6435.7 |
| 6541.4  | 5°    | 6585.9  | 6535.8  | 6591.4 | 6552.5 | 6552.5 | 6597.0 | 6663.8 | 6613.7 | 6713.8 | 6669.3 |
| 6580.3  | 7.5°  | 6658.2  | 6663.8  | 6697.1 | 6702.7 | 6674.9 | 6813.9 | 6819.5 | 6802.8 | 6897.4 | 6875.1 |
| 6847.3  | 10°   | 6836.2  | 6841.7  | 6902.9 | 6936.3 | 6908.5 | 6958.6 | 6902.9 | 6858.4 | 6852.9 | 6830.6 |
| 7058.7  | 12.5° | 7119.9  | 7175.5  | 7164.4 | 7192.2 | 7197.7 | 6986.4 | 6858.4 | 6641.5 | 6613.7 | 6641.5 |
| 7370.2  | 15°   | 7381.3  | 7359.1  | 7370.2 | 7425.8 | 7192.2 | 6852.9 | 6624.8 | 6441.3 | 6452.4 | 6457.9 |
| 7776.2  | 17.5° | 7692.8  | 7709.5  | 7726.2 | 7470.3 | 7042.0 | 6641.5 | 6441.3 | 6441.3 | 6385.6 | 6407.9 |
| 8059.9  | 20°   | 8048.8  | 7982.0  | 7837.4 | 7475.9 | 6780.6 | 6396.8 | 6335.6 | 6335.6 | 6268.8 | 6224.3 |
| 8365.8  | 22.5° | 8326.9  | 8193.4  | 7976.5 | 7303.4 | 6546.9 | 6302.2 | 6152.0 | 6046.3 | 5968.5 | 5879.5 |
| 8705.2  | 25°   | 8504.9  | 8432.6  | 8009.9 | 7125.4 | 6374.5 | 6051.9 | 5829.4 | 5668.1 | 5568.0 | 5451.1 |
| 8972.1  | 27.5° | 8777.5  | 8638.4  | 8104.4 | 6919.6 | 6185.4 | 5801.6 | 5456.7 | 5206.4 | 5017.3 | 4894.9 |
| 9378.2  | 30°   | 9144.6  | 8944.3  | 8037.7 | 6624.8 | 5896.1 | 5367.7 | 4961.7 | 4639.0 | 4422.1 | 4322.0 |
| 9762.0  | 32.5° | 9445.0  | 9183.5  | 7982.0 | 6357.8 | 5573.5 | 4928.3 | 4388.7 | 4060.6 | 3938.2 | 3810.2 |
| 10407.2 | 35°   | 10017.9 | 9500.6  | 7943.1 | 6207.6 | 5284.3 | 4488.9 | 3921.5 | 3637.8 | 3482.1 | 3292.9 |
| 10791.1 | 37.5° | 10457.3 | 10051.3 | 7848.5 | 5896.1 | 4911.6 | 4060.6 | 3565.5 | 3309.6 | 3076.0 | 2875.8 |
| 11681.0 | 40°   | 11147.0 | 10818.9 | 7854.1 | 5456.7 | 4472.2 | 3693.4 | 3287.4 | 3020.4 | 2725.6 | 2553.1 |
| 12999.3 | 42.5° | 12443.1 | 11575.3 | 7887.5 | 5106.3 | 3977.1 | 3393.1 | 3037.1 | 2720.0 | 2425.2 | 2280.6 |
| 14501.2 | 45°   | 14033.9 | 12615.5 | 7681.7 | 4789.2 | 3470.9 | 3109.4 | 2736.7 | 2419.6 | 2230.5 | 2124.8 |
| 16542.6 | 47.5° | 15864.0 | 13633.4 | 7403.6 | 4194.0 | 3048.2 | 2809.0 | 2458.6 | 2275.0 | 2136.0 | 2074.8 |
| 19173.6 | 50°   | 17910.9 | 15090.8 | 7325.7 | 3648.9 | 2720.0 | 2553.1 | 2325.1 | 2186.0 | 2091.5 | 2019.2 |
| 22138.3 | 52.5° | 20547.5 | 16787.3 | 7169.9 | 3087.1 | 2436.3 | 2347.3 | 2275.0 | 2180.5 | 2097.0 | 2035.8 |
| 24902.9 | 55°   | 23067.3 | 18667.4 | 7003.1 | 2625.5 | 2236.1 | 2247.2 | 2286.1 | 2202.7 | 2130.4 | 2035.8 |
| 28001.1 | 57.5° | 25904.1 | 20586.4 | 6385.6 | 2286.1 | 2085.9 | 2197.1 | 2275.0 | 2180.5 | 2108.1 | 2035.8 |
| 31171.7 | 60°   | 27656.2 | 21665.5 | 5178.6 | 1991.3 | 1952.4 | 2102.6 | 2208.3 | 2108.1 | 2030.3 | 2058.1 |
| 32629.0 | 62.5° | 28368.2 | 21098.2 | 3904.8 | 1807.8 | 1857.8 | 1974.7 | 2102.6 | 2063.6 | 2008.0 | 2113.7 |
| 32612.3 | 65°   | 27155.6 | 19791.0 | 2792.3 | 1652.0 | 1729.9 | 1846.7 | 2008.0 | 2052.5 | 2069.2 | 2275.0 |
| 29953.5 | 67.5° | 24163.1 | 17232.3 | 2052.5 | 1524.1 | 1596.4 | 1768.8 | 2074.8 | 2147.1 | 2136.0 | 2391.8 |
| 25136.5 | 70°   | 19334.9 | 13477.7 | 1602.0 | 1418.4 | 1546.3 | 1830.0 | 2169.3 | 2169.3 | 2091.5 | 2391.8 |
| 19173.6 | 72.5° | 14067.3 | 9500.6  | 1379.5 | 1296.0 | 1418.4 | 1679.8 | 2158.2 | 2152.6 | 2052.5 | 2186.0 |
| 12209.5 | 75°   | 8516.0  | 5529.0  | 1218.2 | 1173.7 | 1218.2 | 1440.7 | 2063.6 | 2030.3 | 1891.2 | 1880.1 |
| 5873.9  | 77.5° | 4244.1  | 2781.2  | 995.7  | 1040.2 | 1062.4 | 1207.0 | 1813.3 | 1863.4 | 1674.3 | 1629.8 |
| 2319.5  | 80°   | 1791.1  | 1212.6  | 828.8  | 895.5  | 895.5  | 1017.9 | 1507.4 | 1540.8 | 1390.6 | 1307.2 |
| 917.8   | 82.5° | 817.7   | 695.3   | 706.4  | 778.7  | 728.7  | 789.9  | 1195.9 | 1234.9 | 1129.2 | 990.1  |
| 389.4   | 85°   | 344.9   | 394.9   | 539.6  | 611.9  | 539.6  | 511.7  | 823.2  | 867.7  | 734.2  | 611.9  |
| 166.9   | 87.5° | 155.7   | 216.9   | 339.3  | 445.0  | 272.6  | 239.2  | 439.4  | 456.1  | 367.1  | 272.6  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O





| <u>180°</u> |
|-------------|
| 6380.1      |
| 6374.5      |
| 6608.1      |
| 6841.7      |
| 6830.6      |
| 6652.6      |
| 6535.8      |
| 6413.4      |
| 6157.6      |
| 5829.4      |
| 5473.4      |
| 4950.5      |
| 4377.6      |
| 3804.7      |
| 3276.3      |
| 2881.3      |
| 2569.8      |
| 2291.7      |
| 2147.1      |
| 2063.6      |
| 2030.3      |
| 2030.3      |
| 2030.3      |
| 2030.3      |
| 2035.8      |
| 2085.9      |
| 2275.0      |
| 2408.5      |
| 2341.8      |
| 2108.1      |
| 1857.8      |
| 1602.0      |
| 1279.4      |
| 967.9       |
| 617.4       |
| 255.9       |
| 0.0         |

F REPORT)