

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: P477745

Luminaire Tested: **IFLD-S-SA6D-735-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

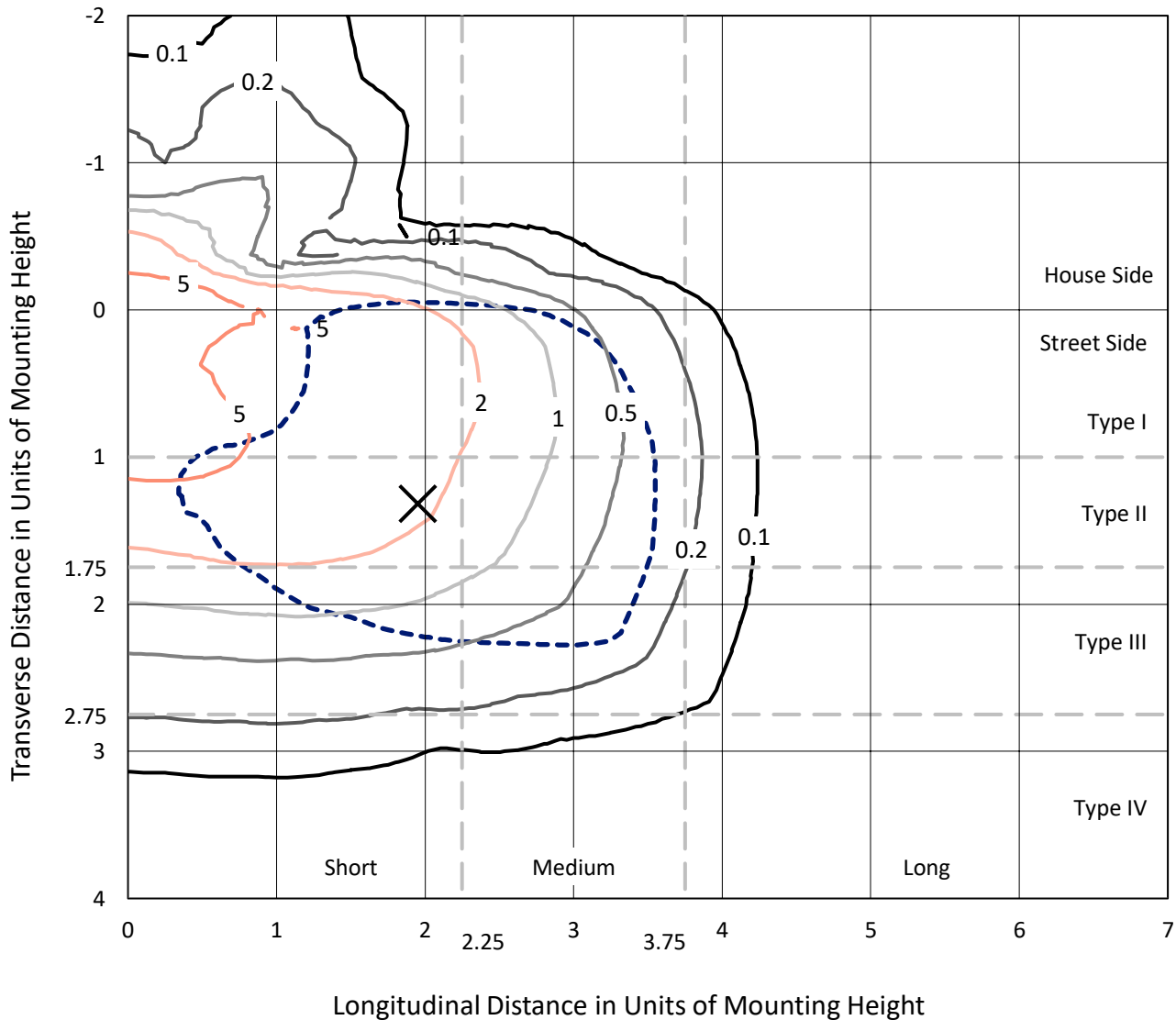
Lumens per Lamp: N/A
Luminaire Lumens: 44297.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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: 24 FT

REPORT NUMBER: P477745
 CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

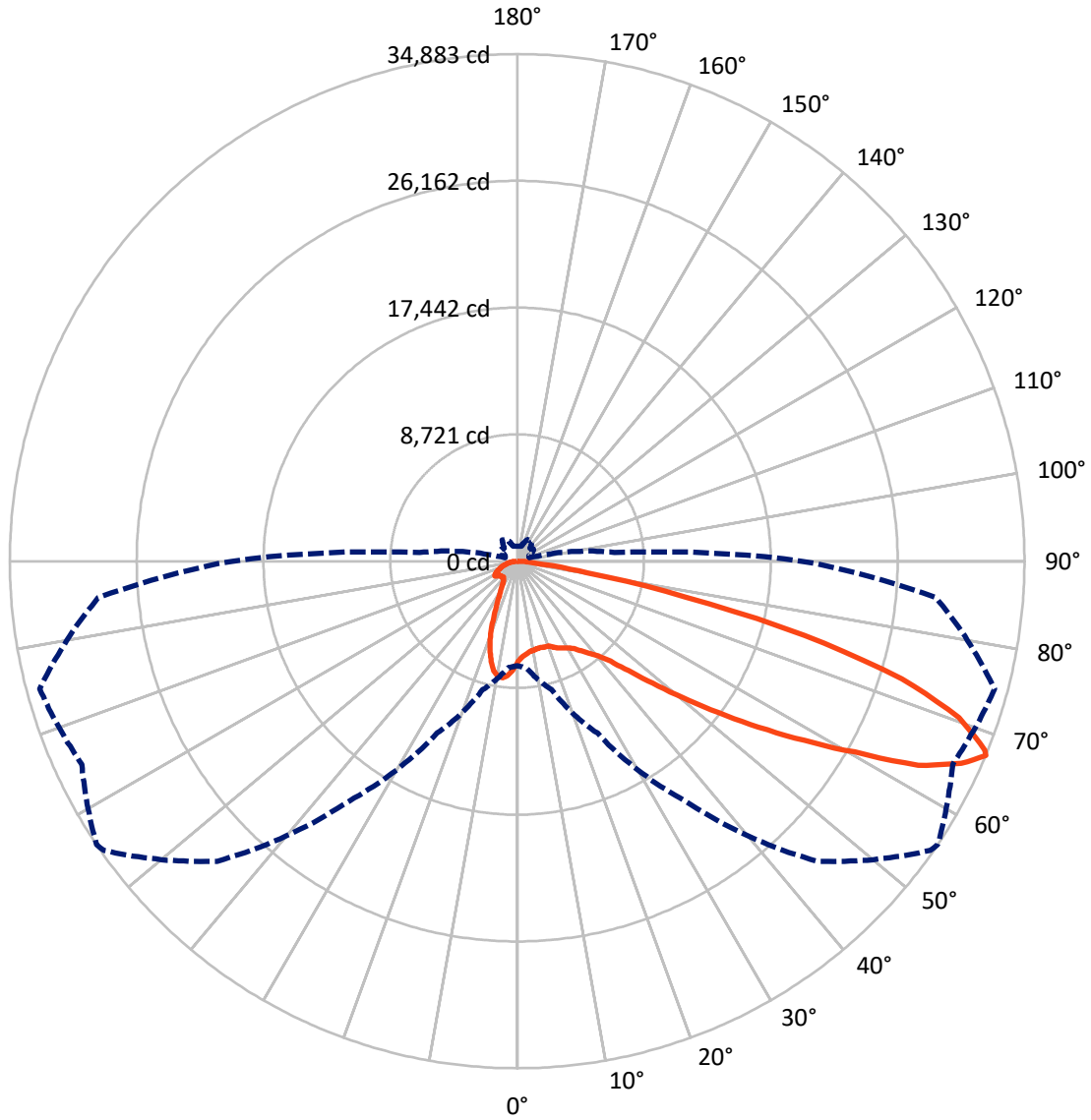
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

REPORT NUMBER: P477745
CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477745
 CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

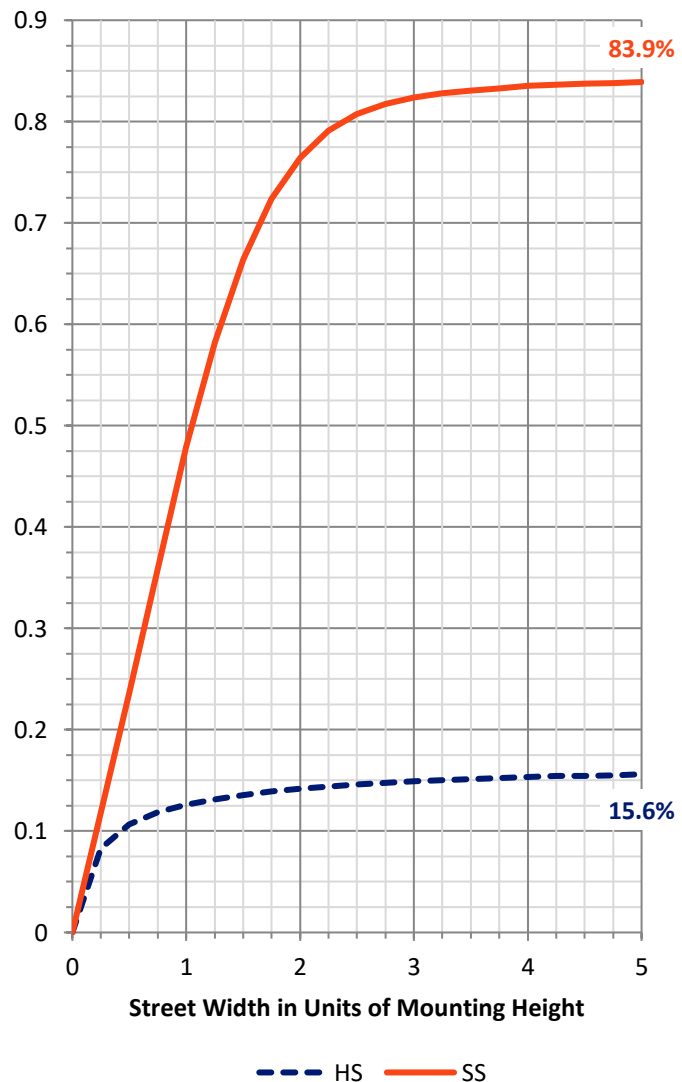
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7012.7 | 0.0 | 7012.7 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 37284.4 | 0.0 | 37284.4 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 44297.1 | 0.0 | 44297.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 664.0 | 1.5 |
| 10°-20° | 1811.5 | 4.1 |
| 20°-30° | 2841.0 | 6.4 |
| 30°-40° | 4055.5 | 9.2 |
| 40°-50° | 6120.9 | 13.8 |
| 50°-60° | 9743.5 | 22.0 |
| 60°-70° | 12456.2 | 28.1 |
| 70°-80° | 6073.3 | 13.7 |
| 80°-90° | 531.3 | 1.2 |
| 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° | 44297.1 | 100.0 |
| 0°-180° | 44297.1 | 100.0 |

Coefficient of Utilization

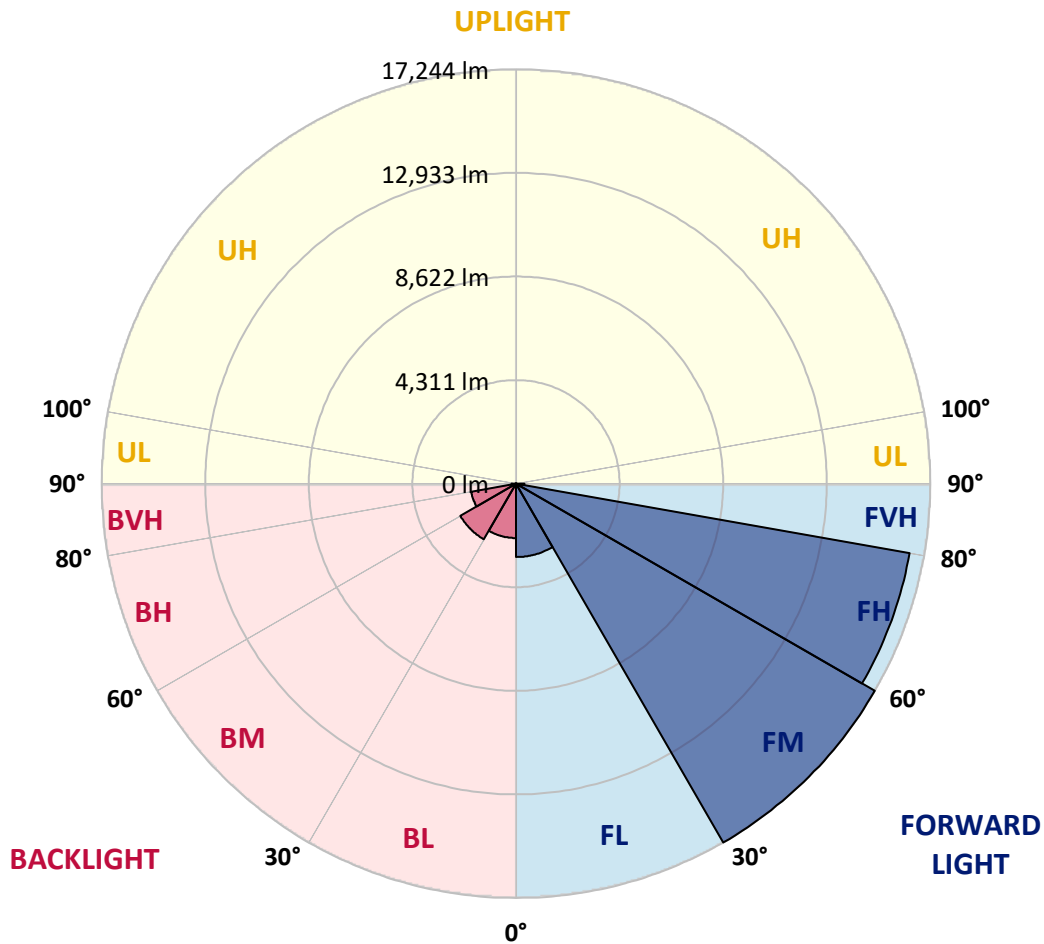


REPORT NUMBER: P477745
 CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3052.6 | 6.9 | | | |
| FM (30°-60°) | 17244.5 | 38.9 | | | |
| FH (60°-80°) | 16634.5 | 37.6 | | | G5 |
| FVH (80°-90°) | 352.8 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2263.9 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2675.4 | 6.0 | B3/5000 | | |
| BH (60°-80°) | 1895.0 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 178.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





REPORT NUMBER: P477745
 CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 |
| 2.5° | 6331.6 | 6305.6 | 6336.8 | 6305.6 | 6445.8 | 6528.9 | 6554.9 | 6591.3 | 6721.1 | 6845.8 |
| 5° | 6066.7 | 5952.4 | 6077.0 | 6118.6 | 6129.0 | 6269.2 | 6414.7 | 6440.6 | 6508.2 | 6710.7 |
| 7.5° | 5625.2 | 5755.0 | 5708.3 | 5832.9 | 5962.8 | 6103.0 | 6341.9 | 6274.4 | 6523.7 | 6715.9 |
| 10° | 5531.7 | 5542.1 | 5594.0 | 5640.7 | 5755.0 | 5936.8 | 6269.2 | 6227.7 | 6482.2 | 6892.5 |
| 12.5° | 5625.2 | 5625.2 | 5609.6 | 5573.2 | 5703.1 | 5879.7 | 6144.6 | 6165.3 | 6565.3 | 6944.5 |
| 15° | 5952.4 | 6014.7 | 5848.5 | 5874.5 | 5822.5 | 5879.7 | 6113.4 | 6160.2 | 6596.5 | 6986.0 |
| 17.5° | 6752.3 | 6731.5 | 6534.1 | 6258.8 | 6030.3 | 5993.9 | 6155.0 | 6206.9 | 6565.3 | 7105.5 |
| 20° | 7531.4 | 7489.8 | 7147.0 | 6861.3 | 6409.5 | 6196.5 | 6222.5 | 6227.7 | 6617.2 | 7183.4 |
| 22.5° | 8398.8 | 8507.9 | 8133.9 | 7552.2 | 6991.2 | 6461.4 | 6357.5 | 6440.6 | 6736.7 | 7224.9 |
| 25° | 9759.6 | 9525.9 | 9203.9 | 8440.3 | 7536.6 | 6871.7 | 6580.9 | 6622.4 | 6851.0 | 7328.8 |
| 27.5° | 10741.3 | 10647.8 | 10144.0 | 9525.9 | 8300.1 | 7193.8 | 6700.3 | 6778.2 | 7058.7 | 7323.6 |
| 30° | 11686.6 | 11686.6 | 11380.2 | 10455.6 | 9105.2 | 7734.0 | 6954.8 | 6918.5 | 6960.0 | 7313.2 |
| 32.5° | 12793.0 | 12642.3 | 12200.8 | 11587.9 | 10118.0 | 8227.4 | 7157.4 | 7167.8 | 7167.8 | 7505.4 |
| 35° | 13374.7 | 13618.8 | 13322.8 | 12325.5 | 10891.9 | 9048.0 | 7645.7 | 7567.7 | 7510.6 | 7718.4 |
| 37.5° | 14226.5 | 14372.0 | 14060.3 | 13473.4 | 11852.8 | 9712.9 | 8076.8 | 8014.4 | 7682.0 | 7884.6 |
| 40° | 14740.7 | 14714.8 | 14704.4 | 14434.3 | 13125.4 | 10497.2 | 8710.4 | 8549.4 | 8102.7 | 8471.5 |
| 42.5° | 15031.6 | 14979.7 | 15618.5 | 15452.3 | 14325.2 | 11650.3 | 9505.1 | 9416.8 | 8923.4 | 9515.5 |
| 45° | 15358.8 | 15743.2 | 16267.8 | 16735.3 | 15722.4 | 13270.8 | 10850.4 | 10725.7 | 10284.2 | 11037.4 |
| 47.5° | 15644.5 | 16117.2 | 16787.2 | 17285.8 | 16984.6 | 15031.6 | 12512.5 | 12543.6 | 12252.8 | 13026.7 |
| 50° | 16122.4 | 16169.1 | 17078.1 | 18085.7 | 18319.4 | 16657.3 | 14745.9 | 14694.0 | 14564.1 | 15649.7 |
| 52.5° | 15976.9 | 16117.2 | 17265.0 | 18553.2 | 18937.5 | 18376.6 | 17145.6 | 17301.4 | 17130.0 | 18496.0 |
| 55° | 13608.4 | 14029.1 | 17150.8 | 19046.6 | 20402.3 | 20319.2 | 20230.9 | 20127.0 | 20116.6 | 21695.6 |
| 57.5° | 12533.3 | 12876.1 | 15109.5 | 19592.0 | 21970.9 | 22583.8 | 23155.1 | 23269.4 | 23264.2 | 25170.4 |
| 60° | 11826.9 | 12180.1 | 14283.7 | 19295.9 | 23305.7 | 25549.6 | 26645.5 | 26661.1 | 26629.9 | 28884.2 |
| 62.5° | 10445.2 | 10788.1 | 12855.3 | 17675.4 | 23674.5 | 28286.8 | 30728.0 | 30930.6 | 29502.2 | 32083.7 |
| 65° | 8783.2 | 9063.6 | 10886.7 | 15197.8 | 22692.8 | 30026.8 | 33797.7 | 33558.8 | 31922.7 | 33912.0 |
| 67° | 7183.4 | 7370.4 | 9146.7 | 13047.5 | 20127.0 | 29190.6 | 34685.9 | 34883.3 | 33039.4 | 33989.9 |
| 67.5° | 6726.3 | 6897.7 | 8575.4 | 12315.1 | 19150.5 | 28556.9 | 34717.1 | 34685.9 | 33060.2 | 34005.5 |
| 70° | 4669.5 | 4742.2 | 5843.3 | 8471.5 | 14107.1 | 24126.4 | 32182.4 | 32255.1 | 31673.4 | 32161.6 |
| 72.5° | 3095.7 | 3204.7 | 3905.9 | 5339.5 | 8315.7 | 17555.9 | 26900.0 | 27679.1 | 27310.4 | 26370.2 |
| 75° | 1994.5 | 2056.8 | 2555.5 | 3178.8 | 4092.9 | 9998.6 | 19872.5 | 20391.9 | 19545.2 | 16309.3 |
| 77.5° | 1116.7 | 1184.2 | 1542.6 | 1932.2 | 1994.5 | 4160.4 | 11162.0 | 11806.1 | 10003.8 | 6928.9 |
| 80° | 696.0 | 784.3 | 1163.5 | 1147.9 | 950.5 | 1527.1 | 4601.9 | 4929.2 | 3999.4 | 2384.1 |
| 82.5° | 524.6 | 592.1 | 898.6 | 805.1 | 535.0 | 680.4 | 1724.4 | 1849.1 | 1464.7 | 919.3 |
| 85° | 358.4 | 451.9 | 649.3 | 498.6 | 280.5 | 327.2 | 685.6 | 737.6 | 670.0 | 446.7 |
| 87.5° | 129.9 | 192.2 | 337.6 | 249.3 | 124.7 | 98.7 | 223.3 | 249.3 | 238.9 | 202.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P477745
 CATALOG NUMBER: IFLD-S-SA6D-735-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6892.5 | 0° | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 | 6892.5 |
| 6954.8 | 2.5° | 7053.5 | 7126.2 | 7162.6 | 7375.6 | 7463.9 | 7448.3 | 7469.1 | 7500.2 | 7531.4 | 7572.9 |
| 7043.1 | 5° | 7110.7 | 7334.0 | 7453.5 | 7702.8 | 7869.0 | 7796.3 | 7889.8 | 7863.8 | 7827.4 | 7822.3 |
| 7204.2 | 7.5° | 7297.7 | 7583.3 | 7941.7 | 8009.2 | 8082.0 | 7900.2 | 7744.3 | 7531.4 | 7479.4 | 7297.7 |
| 7339.2 | 10° | 7630.1 | 7863.8 | 8300.1 | 8326.1 | 8004.0 | 7536.6 | 7188.6 | 6747.1 | 6741.9 | 6477.0 |
| 7547.0 | 12.5° | 7946.9 | 8211.8 | 8565.0 | 8414.4 | 7645.7 | 7006.8 | 6440.6 | 5957.6 | 5755.0 | 5620.0 |
| 7671.6 | 15° | 8144.3 | 8580.6 | 8767.6 | 8118.3 | 7017.2 | 6155.0 | 5422.6 | 4903.2 | 4695.4 | 4596.7 |
| 7827.4 | 17.5° | 8326.1 | 8933.8 | 8850.7 | 7598.9 | 6243.3 | 5277.2 | 4404.6 | 3952.7 | 3895.5 | 3822.8 |
| 8076.8 | 20° | 8575.4 | 9063.6 | 8554.6 | 6923.7 | 5365.5 | 4144.9 | 3589.1 | 3370.9 | 3422.9 | 3454.0 |
| 8102.7 | 22.5° | 8809.1 | 9131.2 | 8180.6 | 6186.1 | 4238.4 | 3282.6 | 3007.4 | 3054.1 | 3132.0 | 3235.9 |
| 8165.1 | 25° | 8913.0 | 9240.2 | 7676.8 | 5168.1 | 3225.5 | 2763.2 | 2700.9 | 2778.8 | 2908.7 | 2913.9 |
| 8253.4 | 27.5° | 8980.5 | 9162.3 | 7069.1 | 4176.0 | 2550.3 | 2415.2 | 2508.7 | 2565.9 | 2581.4 | 2643.8 |
| 8440.3 | 30° | 9100.0 | 9001.3 | 6300.4 | 2986.6 | 2140.0 | 2145.1 | 2264.6 | 2264.6 | 2264.6 | 2311.4 |
| 8627.3 | 32.5° | 9307.8 | 8892.2 | 5401.8 | 2181.5 | 1843.9 | 2010.1 | 1978.9 | 1968.5 | 1947.8 | 1890.6 |
| 8866.3 | 35° | 9437.6 | 8596.2 | 4264.3 | 1615.4 | 1656.9 | 1843.9 | 1833.5 | 1672.5 | 1402.4 | 1267.4 |
| 9474.0 | 37.5° | 9707.7 | 8445.5 | 3137.2 | 1246.6 | 1547.8 | 1760.8 | 1703.7 | 1314.1 | 1018.0 | 888.2 |
| 10227.1 | 40° | 10289.4 | 8346.9 | 2171.1 | 1090.8 | 1475.1 | 1719.2 | 1521.9 | 1121.9 | 779.1 | 550.6 |
| 11390.6 | 42.5° | 11001.0 | 8352.0 | 1475.1 | 1028.4 | 1480.3 | 1807.5 | 1464.7 | 960.9 | 550.6 | 441.5 |
| 12943.6 | 45° | 11956.7 | 8274.1 | 1012.8 | 1028.4 | 1573.8 | 1953.0 | 1501.1 | 872.6 | 535.0 | 561.0 |
| 14891.4 | 47.5° | 12985.1 | 8341.7 | 753.1 | 934.9 | 1589.4 | 1958.2 | 1371.2 | 857.0 | 514.2 | 649.3 |
| 17010.5 | 50° | 14185.0 | 8409.2 | 623.3 | 862.2 | 1594.6 | 1895.8 | 1262.2 | 836.2 | 535.0 | 685.6 |
| 19441.4 | 52.5° | 15421.2 | 8622.1 | 529.8 | 815.5 | 1656.9 | 1869.9 | 1262.2 | 867.4 | 535.0 | 597.3 |
| 22537.0 | 55° | 17265.0 | 9167.5 | 763.5 | 1018.0 | 1885.4 | 2041.3 | 1553.0 | 1215.4 | 747.9 | 768.7 |
| 25502.8 | 57.5° | 19301.1 | 9728.5 | 851.8 | 1070.0 | 1937.4 | 1838.7 | 1672.5 | 1340.1 | 789.5 | 794.7 |
| 27809.0 | 60° | 20641.2 | 9749.2 | 846.6 | 1044.0 | 1812.7 | 1589.4 | 1636.1 | 1412.8 | 805.1 | 680.4 |
| 29237.3 | 62.5° | 21176.2 | 9115.6 | 883.0 | 1044.0 | 1688.1 | 1485.5 | 1677.7 | 1521.9 | 831.0 | 851.8 |
| 29642.5 | 65° | 20568.5 | 7806.7 | 851.8 | 934.9 | 1485.5 | 1329.7 | 1688.1 | 1542.6 | 909.0 | 857.0 |
| 28915.3 | 67° | 19618.0 | 6726.3 | 867.4 | 888.2 | 1381.6 | 1262.2 | 1776.4 | 1620.5 | 1054.4 | 1028.4 |
| 28536.2 | 67.5° | 19347.9 | 6440.6 | 862.2 | 862.2 | 1345.3 | 1241.4 | 1797.1 | 1620.5 | 1075.2 | 1064.8 |
| 25186.0 | 70° | 17052.1 | 5220.0 | 883.0 | 851.8 | 1189.4 | 1179.1 | 1911.4 | 1708.8 | 1236.2 | 1246.6 |
| 18501.2 | 72.5° | 12979.9 | 3957.9 | 877.8 | 851.8 | 1033.6 | 1127.1 | 1927.0 | 1766.0 | 1345.3 | 1246.6 |
| 10362.1 | 75° | 7375.6 | 2368.5 | 773.9 | 742.8 | 815.5 | 981.7 | 1802.3 | 1682.9 | 1308.9 | 1116.7 |
| 4139.7 | 77.5° | 3048.9 | 1220.6 | 711.6 | 670.0 | 675.2 | 799.9 | 1501.1 | 1568.6 | 1246.6 | 950.5 |
| 1381.6 | 80° | 1137.5 | 732.4 | 571.3 | 535.0 | 519.4 | 586.9 | 1070.0 | 1251.8 | 1064.8 | 779.1 |
| 607.7 | 82.5° | 592.1 | 457.1 | 389.6 | 389.6 | 353.2 | 374.0 | 576.5 | 831.0 | 805.1 | 535.0 |
| 244.1 | 85° | 301.3 | 259.7 | 223.3 | 218.2 | 197.4 | 176.6 | 290.9 | 493.4 | 462.3 | 296.1 |
| 109.1 | 87.5° | 161.0 | 145.4 | 93.5 | 88.3 | 72.7 | 46.7 | 51.9 | 98.7 | 161.0 | 129.9 |
| 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> |
|---------------|
| 6892.5 |
| 7614.5 |
| 7869.0 |
| 7360.0 |
| 6466.6 |
| 5588.8 |
| 4576.0 |
| 3859.2 |
| 3417.7 |
| 3178.8 |
| 2965.8 |
| 2700.9 |
| 2363.3 |
| 1859.5 |
| 1329.7 |
| 883.0 |
| 535.0 |
| 431.1 |
| 571.3 |
| 722.0 |
| 794.7 |
| 612.9 |
| 810.3 |
| 768.7 |
| 701.2 |
| 862.2 |
| 841.4 |
| <i>1012.8</i> |
| 1044.0 |
| 1153.1 |
| 1106.3 |
| 997.3 |
| 898.6 |
| 711.6 |
| 420.7 |
| 244.1 |
| 93.5 |
| 0.0 |

F REPORT)