

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: P480914

Luminaire Tested: **IFLD-L-SA7D-740-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480914  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

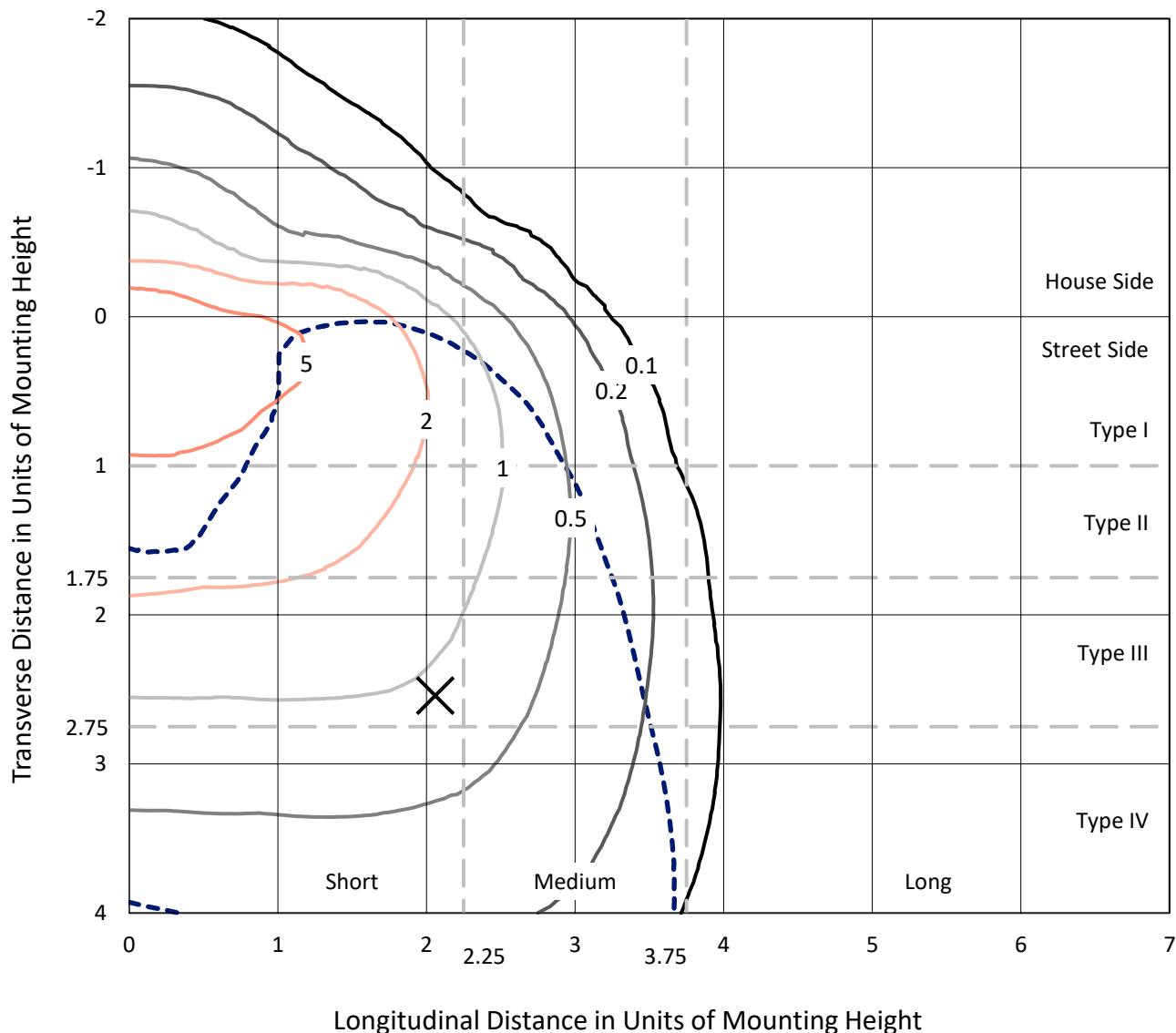
Lumens per Lamp: N/A  
Luminaire Lumens: 47183 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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: P480914  
 CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

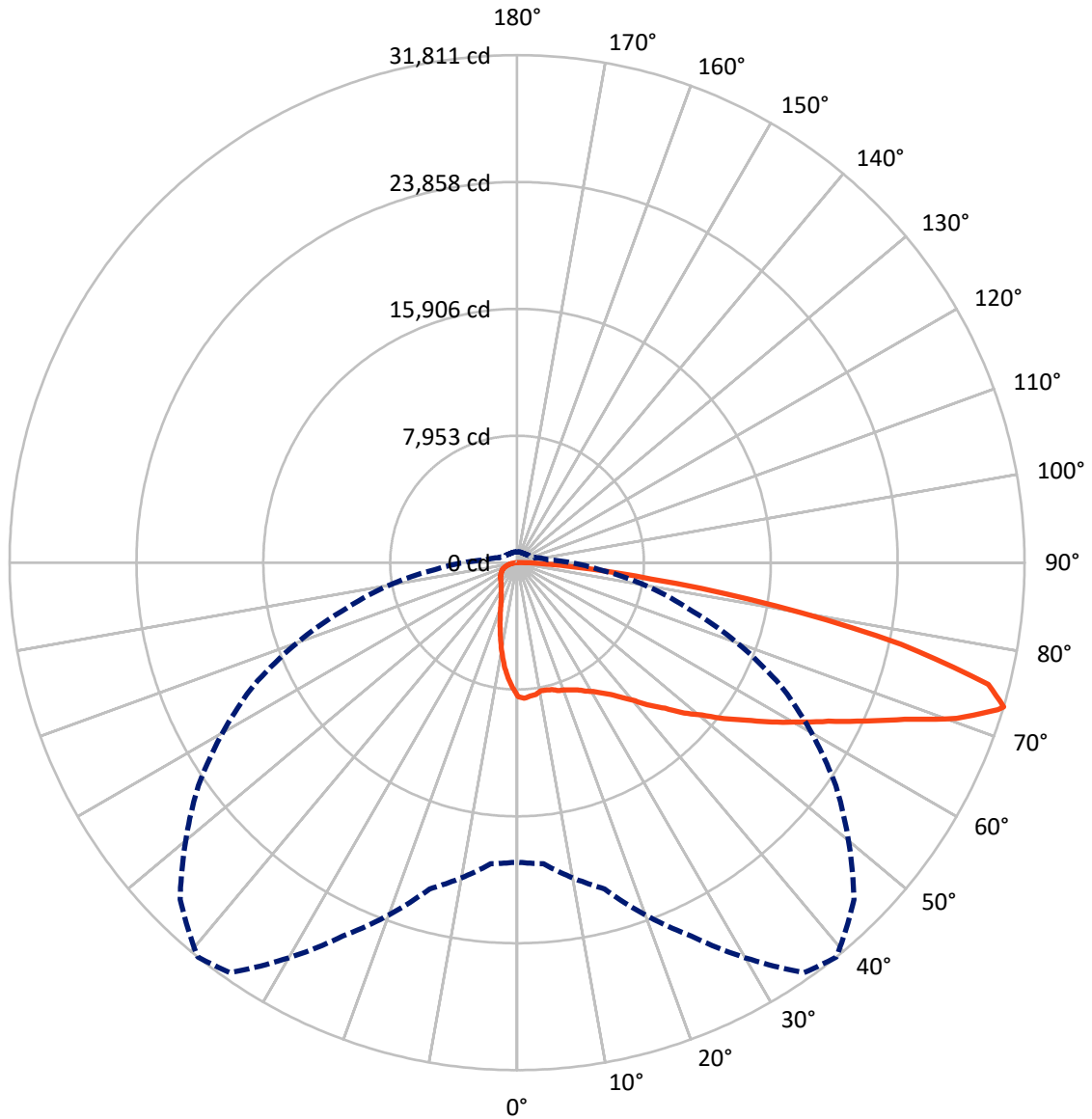
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P480914  
CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480914  
 CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6632.6	0.0	6632.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	40550.4	0.0	40550.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	47183.0	0.0	47183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.1	1.5
10°-20°	1853.4	3.9
20°-30°	2832.3	6.0
30°-40°	4129.5	8.8
40°-50°	6240.2	13.2
50°-60°	9036.1	19.2
60°-70°	11480.8	24.3
70°-80°	9307.0	19.7
80°-90°	1574.7	3.3
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°	47183.0	100.0
0°-180°	47183.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480914

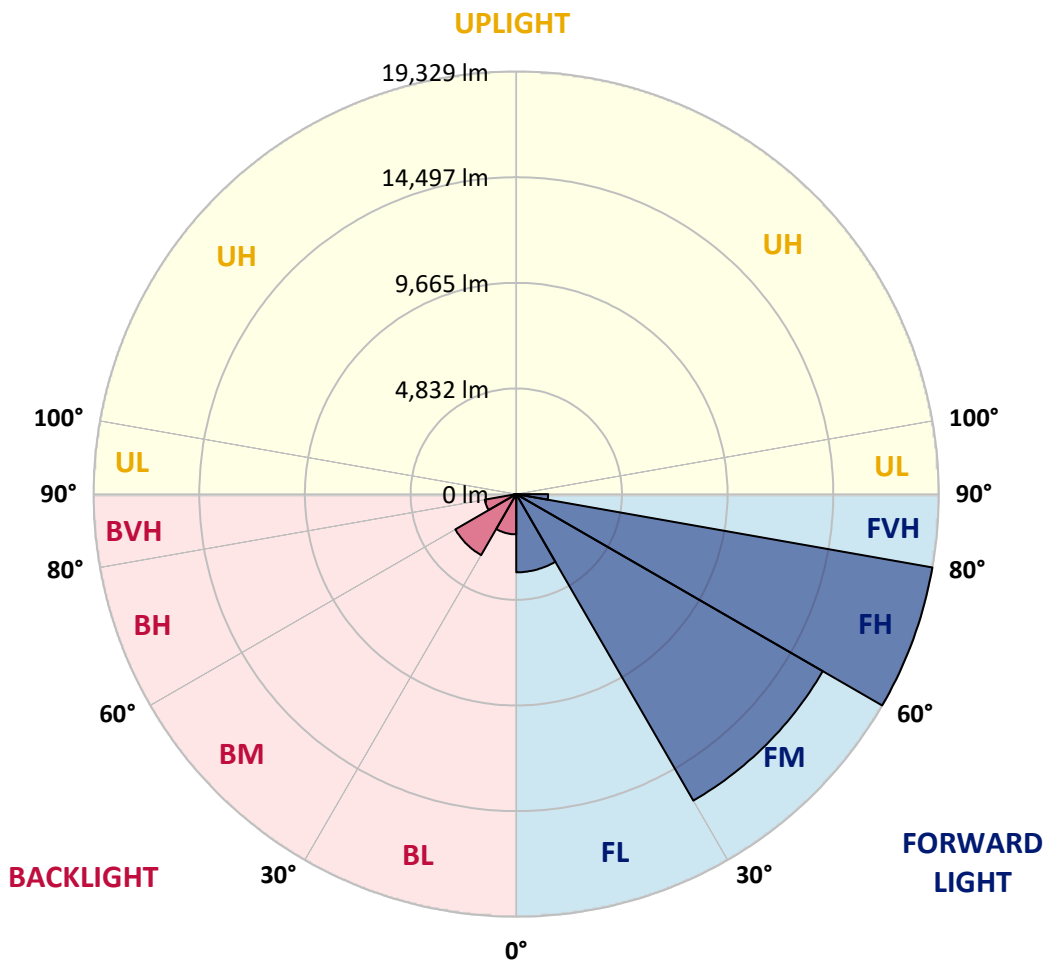
CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.4	7.6			
FM (30°-60°)	16186.8	34.3			
FH (60°-80°)	19329.0	41.0			G5
FVH (80°-90°)	1459.2	3.1			G5
BL (0°-30°)	1839.4	3.9	B3/2500		
BM (30°-60°)	3219.0	6.8	B3/5000		
BH (60°-80°)	1458.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	115.5	0.2			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 IV Short





REPORT NUMBER: P480914

CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9
2.5°	8599.5	8509.7	8525.6	8493.9	8525.6	8515.0	8499.2	8420.0	8499.2	8420.0	8398.9
5°	8483.3	8483.3	8536.1	8456.9	8467.5	8414.7	8467.5	8409.4	8356.6	8224.7	8187.7
7.5°	8446.4	8441.1	8446.4	8335.5	8388.3	8356.6	8303.8	8240.5	8134.9	8050.5	7929.0
10°	8193.0	8245.8	8187.7	8219.4	8261.6	8166.6	8161.3	8145.5	8098.0	7987.1	7913.2
12.5°	8055.7	8145.5	8177.1	8150.8	8187.7	8198.3	8166.6	8145.5	8087.4	8013.5	7802.3
15°	8113.8	8008.2	8098.0	8272.2	8235.2	8261.6	8266.9	8245.8	8219.4	8082.1	7944.9
17.5°	8129.6	8066.3	8256.3	8293.3	8340.8	8435.8	8372.5	8367.2	8266.9	8171.9	7971.3
20°	8166.6	8140.2	8293.3	8488.6	8493.9	8509.7	8541.4	8462.2	8409.4	8245.8	7939.6
22.5°	8303.8	8393.6	8536.1	8620.6	8668.1	8678.7	8678.7	8520.3	8462.2	8330.2	8087.4
25°	8715.6	8620.6	8821.2	8921.5	8852.9	8837.0	8800.1	8657.5	8594.2	8478.0	8156.0
27.5°	9016.5	9011.2	9127.4	9264.6	9079.9	9116.8	8984.8	8942.6	8800.1	8736.7	8277.4
30°	9428.3	9544.4	9539.1	9581.4	9338.5	9380.8	9211.8	9132.6	9053.5	9090.4	8636.4
32.5°	9956.2	9913.9	9982.6	9950.9	9708.1	9745.0	9544.4	9423.0	9449.4	9560.2	9127.4
35°	10294.0	10251.8	10278.2	10278.2	10204.3	10162.0	10077.6	9919.2	10045.9	10251.8	9676.4
37.5°	10658.3	10711.1	10864.1	10832.5	10737.5	10737.5	10726.9	10616.0	10779.7	11286.5	10552.7
40°	10980.3	11122.8	11217.8	11281.2	11392.0	11392.0	11481.8	11418.4	11714.1	12527.0	11624.3
42.5°	11318.1	11323.4	11840.8	11888.3	12136.4	12242.0	12310.6	12363.4	12917.7	13825.7	12769.9
45°	11751.0	11777.4	12231.4	12595.7	12981.0	13018.0	13276.6	13450.9	14131.8	15245.7	14015.7
47.5°	12321.1	12289.5	12775.1	13355.8	13836.2	14089.6	14401.1	14591.1	15430.5	16787.2	15377.7
50°	13070.8	12975.7	13255.5	14168.8	14733.6	15013.4	15567.7	15884.5	16866.4	18260.0	16312.1
52.5°	13984.0	13825.7	14047.4	15045.1	15678.6	16243.4	16771.3	17125.0	18149.1	19400.3	17003.6
55°	14950.1	14622.8	14686.1	15974.2	16887.5	17420.6	18143.9	18513.4	19558.6	20424.4	17695.2
57.5°	15905.6	15699.7	15573.0	16866.4	18328.6	18840.7	19505.8	19986.2	20873.1	21332.4	18281.1
60°	16708.0	16655.2	16449.3	18249.4	19854.3	20292.4	20989.2	21284.9	21955.3	22171.7	18291.7
62.5°	17367.9	17188.4	17515.7	19363.3	21406.3	21902.5	22668.0	22694.4	23169.5	22694.4	17753.2
65°	17885.2	17895.8	18418.4	20709.5	23201.1	23934.9	24552.6	24483.9	24177.7	22382.9	16481.0
67.5°	18355.0	18555.6	19321.1	22187.6	25508.1	26199.6	26885.9	25977.9	24452.3	20925.9	13994.6
70°	18724.6	18925.2	20540.5	23987.7	28226.7	29240.3	29393.4	26569.1	23190.6	17726.8	10558.0
72.5°	18682.3	19046.6	21232.1	25423.6	30639.2	31515.5	30280.3	24906.2	19321.1	12358.1	6160.6
73°	18772.1	18951.6	21174.0	25824.8	31373.0	31811.2	29868.5	24383.6	18223.1	11085.9	5210.4
75°	17040.6	17647.6	20123.5	25170.2	30586.4	30507.3	27503.5	20318.8	12954.6	5822.7	2523.4
77.5°	12606.2	12991.6	15858.1	20698.9	25106.8	24600.1	20746.4	12986.3	6150.0	2159.1	1362.0
80°	6160.6	6461.5	8404.1	11951.6	16417.6	16459.9	12875.4	6757.1	2634.2	1219.4	929.1
82.5°	3077.6	3257.1	4038.4	5252.6	8076.8	8462.2	6530.1	3843.1	1631.2	691.5	527.9
85°	2011.3	2138.0	2486.4	2570.9	3426.1	3616.1	3040.7	2998.5	1061.1	374.8	427.6
87.5°	1335.6	1356.7	1525.6	1298.6	1372.5	1319.7	1467.6	1889.9	311.5	158.4	116.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480914  
 CATALOG NUMBER: IFLD-L-SA7D-740-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9	8398.9
2.5°	8372.5	8298.6	8219.4	8108.5	8029.3	7907.9	7797.1	7749.5	7739.0	7744.3	7691.5
5°	8156.0	8050.5	7892.1	7665.1	7533.1	7332.5	7163.6	7073.8	6978.8	6994.7	6952.4
7.5°	7855.1	7739.0	7496.2	7232.2	6904.9	6619.8	6461.5	6239.8	6113.1	6018.0	6070.8
10°	7760.1	7559.5	7195.3	6831.0	6324.2	5949.4	5585.2	5331.8	5157.6	4988.6	5062.5
12.5°	7712.6	7512.0	7005.2	6466.8	5812.2	5242.0	4730.0	4418.5	4170.4	4022.6	4080.7
15°	7670.4	7422.3	6825.7	6065.6	5331.8	4582.2	4006.7	3595.0	3357.4	3214.9	3230.7
17.5°	7728.4	7374.7	6561.8	5674.9	4803.9	4001.5	3362.7	2935.1	2692.3	2602.5	2581.4
20°	7670.4	7322.0	6303.1	5284.3	4276.0	3447.2	2834.8	2481.1	2312.2	2238.3	2222.5
22.5°	7691.5	7195.3	6033.9	4851.4	3785.0	2982.6	2481.1	2211.9	2079.9	2043.0	2053.5
25°	7791.8	7121.3	5764.7	4376.3	3299.4	2639.5	2254.1	2048.2	1953.2	1916.3	1926.8
27.5°	7865.7	7184.7	5521.8	3927.6	2887.6	2333.3	2064.1	1926.8	1863.5	1837.1	1831.8
30°	8050.5	7221.7	5284.3	3526.4	2549.7	2132.7	1932.1	1821.2	1779.0	1763.2	1757.9
32.5°	8325.0	7290.3	5009.8	3156.8	2301.6	1942.7	1826.5	1731.5	1720.9	1705.1	1710.4
35°	8773.7	7527.8	4703.6	2840.1	2064.1	1816.0	1715.7	1652.3	1652.3	1652.3	1668.2
37.5°	9417.7	7860.4	4429.1	2539.2	1911.0	1705.1	1620.6	1599.5	1589.0	1604.8	1615.4
40°	10246.5	8261.6	4207.4	2301.6	1779.0	1631.2	1557.3	1546.7	1541.5	1536.2	1546.7
42.5°	11154.5	8773.7	4017.3	2116.9	1684.0	1552.0	1499.2	1488.7	1467.6	1478.1	1494.0
45°	12057.2	9407.2	3848.4	1969.1	1620.6	1509.8	1435.9	1430.6	1420.0	1414.8	1441.2
47.5°	13060.2	10030.1	3795.6	1879.3	1573.1	1446.4	1393.7	1388.4	1356.7	1351.4	1372.5
50°	13841.5	10489.3	3853.7	1837.1	1504.5	1398.9	1362.0	1335.6	1309.2	1282.8	1282.8
52.5°	14380.0	10806.1	3895.9	1805.4	1467.6	1335.6	1288.1	1277.5	1251.1	1224.7	1214.2
55°	14865.6	10996.1	3906.4	1810.7	1430.6	1261.7	1230.0	1224.7	1208.9	1166.7	1156.1
57.5°	15029.3	10916.9	3695.3	1763.2	1409.5	1214.2	1171.9	1182.5	1161.4	1124.4	1119.1
60°	15013.4	10367.9	3214.9	1699.8	1362.0	1161.4	1108.6	1140.3	1140.3	1098.0	1092.7
62.5°	14100.2	9101.0	2628.9	1578.4	1309.2	1108.6	1050.5	1098.0	1113.9	1087.5	1082.2
65°	12205.0	7411.7	2196.1	1457.0	1230.0	1050.5	992.4	1045.2	1071.6	1061.1	1055.8
67.5°	10098.7	5669.6	1826.5	1298.6	1129.7	971.3	923.8	960.8	976.6	981.9	987.2
70°	7137.2	3774.5	1525.6	1124.4	992.4	886.9	834.1	839.4	834.1	849.9	849.9
72.5°	3880.1	2174.9	1240.6	955.5	855.2	770.7	733.8	707.4	707.4	702.1	702.1
73°	3320.5	1953.2	1182.5	929.1	818.2	749.6	707.4	686.3	686.3	681.0	675.7
75°	1863.5	1430.6	1013.6	797.1	707.4	654.6	622.9	591.2	586.0	586.0	586.0
77.5°	1224.7	1113.9	807.7	638.8	570.1	522.6	512.1	480.4	480.4	480.4	475.1
80°	918.5	876.3	622.9	485.7	438.2	401.2	390.6	369.5	364.2	343.1	348.4
82.5°	612.4	691.5	454.0	343.1	295.6	274.5	274.5	269.2	253.4	227.0	227.0
85°	485.7	564.9	327.3	211.2	174.2	147.8	153.1	147.8	142.5	116.1	110.9
87.5°	89.7	227.0	95.0	58.1	42.2	26.4	26.4	15.8	10.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)