

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: P476896

Luminaire Tested: **IFLD-L-SA7C-727-U-T2R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476896  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

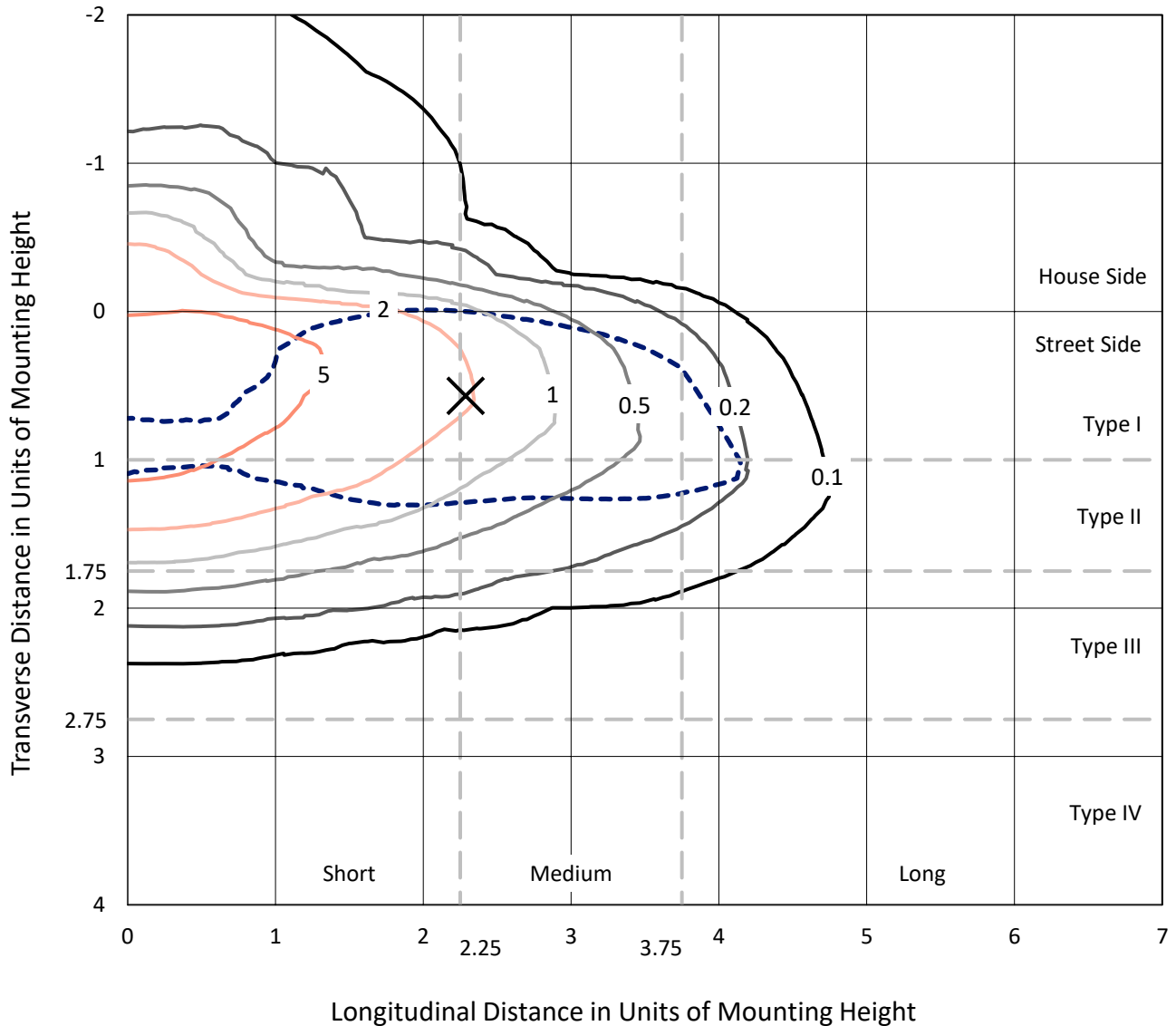
Lumens per Lamp: N/A  
Luminaire Lumens: 37282.2 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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: P476896  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

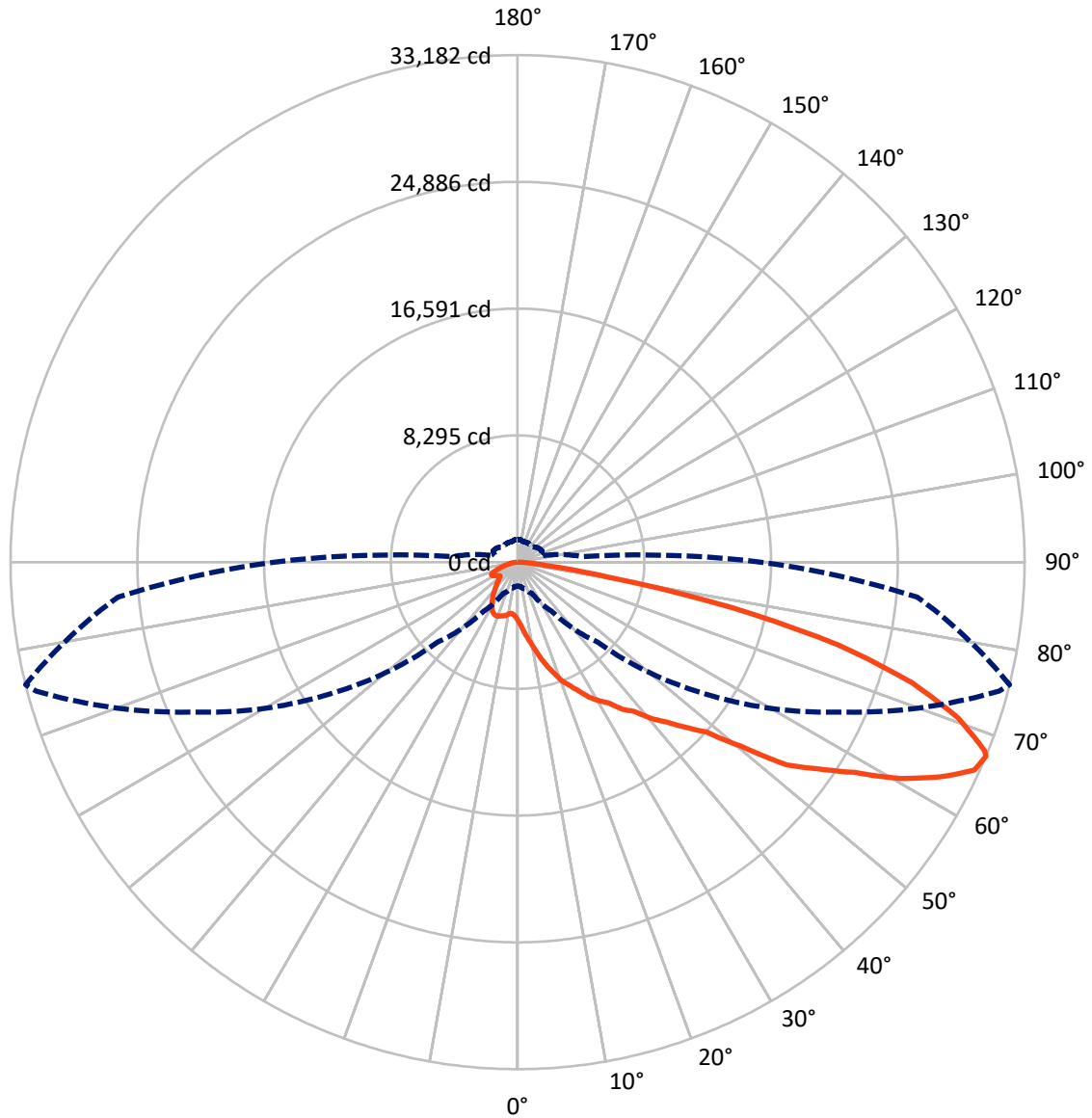
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476896  
CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476896  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5303.9	0.0	5303.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	31978.4	0.0	31978.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	37282.2	0.0	37282.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.9	1.2
10°-20°	1657.5	4.4
20°-30°	3081.6	8.3
30°-40°	4885.0	13.1
40°-50°	6756.3	18.1
50°-60°	8310.7	22.3
60°-70°	7733.5	20.7
70°-80°	3880.6	10.4
80°-90°	535.1	1.4
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°	37282.2	100.0
0°-180°	37282.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476896

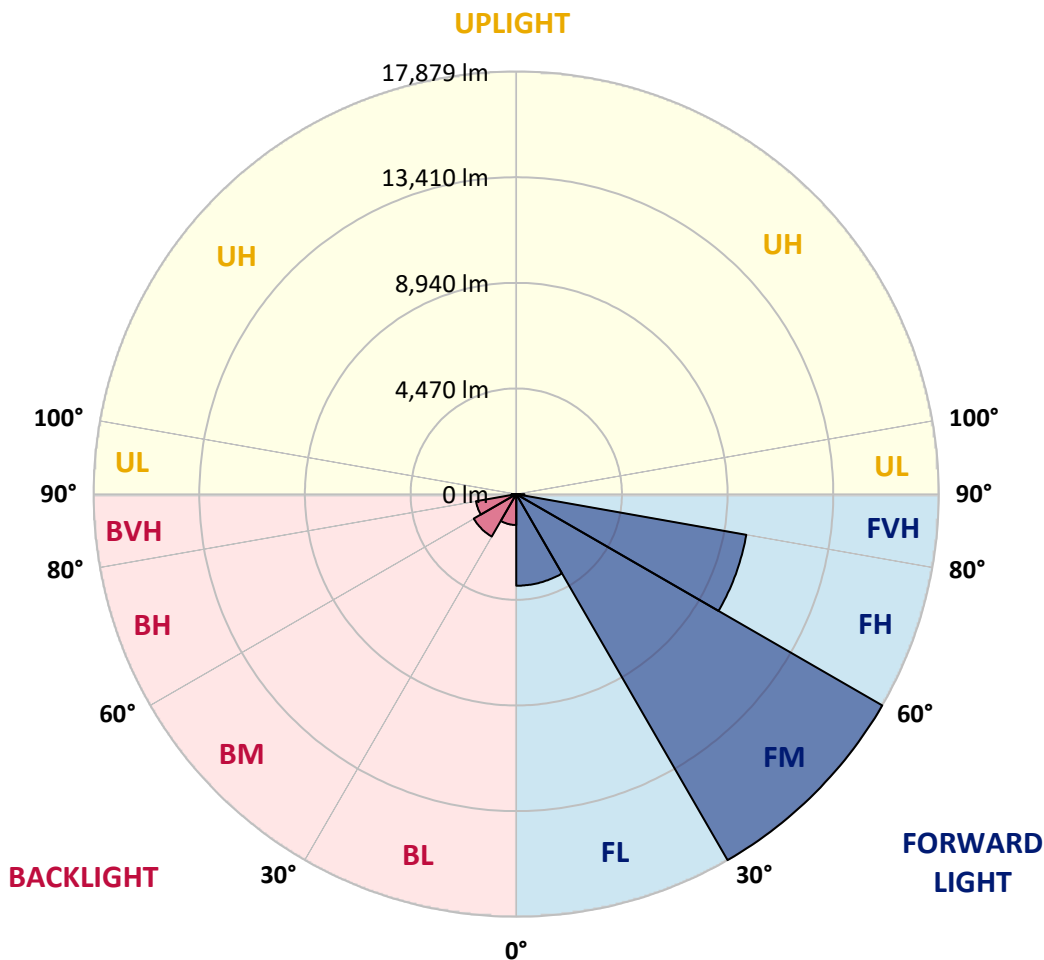
CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3874.9	10.4			
FM (30°-60°)	17879.4	48.0			
FH (60°-80°)	9883.2	26.5			G4/12000
FVH (80°-90°)	340.9	0.9			G3/500
BL (0°-30°)	1306.1	3.5	B3/2500		
BM (30°-60°)	2072.6	5.6	B2/2500		
BH (60°-80°)	1730.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	194.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





REPORT NUMBER: P476896

CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	5293.8	5230.1	5166.3	5030.4	4983.6	4856.2	4622.5	4363.3	4150.9	4121.2	3972.5
5°	6568.4	6474.9	6453.7	6377.2	6135.0	5888.6	5506.2	5089.9	4571.5	4609.8	4099.9
7.5°	7524.3	7469.1	7354.4	7282.2	7137.7	6810.6	6415.4	5863.1	5204.6	5077.1	4384.6
10°	8246.6	8170.1	8165.9	8102.1	8025.7	7690.0	7388.4	6644.9	5799.4	5625.2	4733.0
12.5°	8612.0	8599.2	8824.4	8824.4	8794.7	8654.5	8136.1	7456.3	6364.4	6305.0	5136.6
15°	9007.1	8900.9	9096.3	9245.0	9321.5	9393.7	8964.6	8246.6	7086.7	6972.0	5570.0
17.5°	9007.1	8998.6	9194.0	9440.5	9839.8	9933.3	9699.6	8973.1	7685.8	7600.8	6045.8
20°	8854.1	8977.4	9113.3	9444.7	9878.1	10256.2	10324.2	9716.6	8348.6	8280.6	6585.4
22.5°	9567.9	9449.0	9589.2	9716.6	10052.3	10625.8	10812.8	10370.9	9045.3	8786.2	7074.0
25°	10766.0	10685.3	10583.3	10396.4	10536.6	10787.3	11071.9	10855.2	9640.1	9351.2	7545.6
27.5°	11934.4	11938.6	11717.7	11309.9	11008.2	11059.2	11394.8	11280.1	10141.5	10014.0	7868.5
30°	13595.6	13493.6	13247.2	12694.9	12104.3	11620.0	11564.8	11675.2	10778.8	10532.4	8331.6
32.5°	14840.5	14861.7	14513.3	13718.8	12911.6	12516.5	12032.1	12078.9	11182.4	10999.7	8701.2
35°	15847.4	15821.9	15575.5	14916.9	13961.0	13485.1	12830.9	12563.2	12121.3	11832.4	9266.3
37.5°	16935.0	16726.9	16327.5	15584.0	14972.2	14313.6	13676.3	13073.0	12745.9	12397.5	9750.6
40°	17372.6	17372.6	16837.3	16497.4	15770.9	15273.8	14861.7	13744.3	13506.4	13438.4	10370.9
42.5°	17062.5	17253.7	17032.8	16646.1	16348.7	15719.9	15609.5	14441.1	14445.3	14309.4	11114.4
45°	17032.8	16769.3	16586.6	16684.4	16544.2	16510.2	16790.6	15405.5	15431.0	15414.0	12112.8
47.5°	16178.8	16059.8	16331.7	16493.2	16607.9	17134.7	17942.0	16556.9	16739.6	16612.1	13264.2
50°	15329.1	15307.8	15477.8	16064.1	16561.2	17427.9	19038.1	18332.8	18931.9	18923.4	15350.3
52.5°	13000.8	13226.0	13893.0	15133.6	16361.5	17827.2	19866.6	20601.6	21744.5	22054.6	17079.5
55°	10774.5	10655.6	11641.2	13442.7	15490.5	17984.4	20792.8	21965.4	23647.9	23873.0	18855.4
57.5°	8382.5	8603.5	9381.0	11110.2	13689.1	17206.9	21472.6	23312.2	25797.7	25971.9	20916.0
60°	6254.0	6283.7	7137.7	8531.2	11292.9	15452.3	21693.5	24693.0	28261.9	28759.0	23074.3
62.5°	3934.2	4112.7	4762.7	6135.0	8501.5	12996.6	20703.6	25530.0	30845.0	30976.8	25249.6
65°	2120.1	2234.8	2723.4	3585.8	5939.6	9831.3	18077.9	25028.7	32060.2	32841.9	26218.3
67°	1567.7	1589.0	1814.2	2290.0	3972.5	7401.1	15074.1	23214.5	32612.5	33181.8	26256.5
67.5°	1470.0	1499.8	1678.2	2056.3	3522.1	6814.8	14288.1	22568.7	32366.1	32977.9	25959.1
70°	1257.6	1266.1	1308.6	1414.8	1975.6	4099.9	9729.4	18494.3	29999.6	30585.9	23873.0
72.5°	1117.4	1125.9	1142.9	1164.1	1338.3	2370.7	5918.3	14232.9	26073.8	27008.5	20597.4
75°	981.4	1011.2	1019.7	1002.7	1138.6	1542.3	3148.2	10460.1	21268.6	21723.2	16017.3
77.5°	832.7	845.5	862.5	879.5	1015.4	1151.4	1512.5	7061.2	14598.3	14322.1	8663.0
80°	701.0	705.3	718.0	730.8	879.5	879.5	858.2	3815.3	6377.2	6096.8	2927.3
82.5°	501.3	531.1	560.8	594.8	730.8	590.6	560.8	1699.5	2018.1	1920.4	989.9
85°	195.4	237.9	369.6	407.9	463.1	318.6	373.9	735.0	841.2	832.7	369.6
87.5°	34.0	38.2	102.0	157.2	169.9	110.5	178.4	263.4	314.4	339.9	136.0
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: P476896  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3	3815.3
2.5°	3849.3	3717.6	3560.4	3403.2	3301.2	3139.7	3127.0	3029.3	3016.5	2982.5	2999.5
5°	3879.0	3721.8	3403.2	3152.5	3037.8	2944.3	2965.5	2923.1	2910.3	2889.1	2855.1
7.5°	4112.7	3802.5	3326.7	3110.0	3025.0	2982.5	2982.5	2931.6	2893.3	2918.8	2944.3
10°	4265.6	3840.8	3386.2	3169.5	3101.5	3008.0	3042.0	2978.3	2999.5	2948.5	2948.5
12.5°	4512.0	4057.4	3509.4	3258.7	3148.2	3063.3	3097.3	3025.0	3008.0	3012.3	2999.5
15°	4843.4	4201.9	3564.6	3309.7	3233.2	3127.0	3101.5	3037.8	2974.0	2952.8	2978.3
17.5°	5153.6	4380.3	3602.8	3339.4	3216.2	3097.3	3067.5	2986.8	2965.5	2901.8	2850.8
20°	5523.2	4592.8	3653.8	3364.9	3152.5	3033.5	2957.0	2876.3	2804.1	2765.9	2782.9
22.5°	5769.6	4703.2	3679.3	3313.9	3059.0	2948.5	2787.1	2731.9	2629.9	2587.4	2553.4
25°	6173.3	4839.2	3615.6	3173.7	2893.3	2714.9	2570.4	2493.9	2421.7	2366.5	2349.5
27.5°	6275.2	4941.2	3466.9	2935.8	2629.9	2443.0	2319.8	2226.3	2179.5	2094.6	2077.6
30°	6572.6	4839.2	3246.0	2646.9	2379.2	2188.0	2064.8	1996.9	1886.4	1865.1	1818.4
32.5°	6763.8	4868.9	2965.5	2366.5	2090.3	1920.4	1839.7	1771.7	1741.9	1640.0	1614.5
35°	7082.5	4767.0	2680.9	2107.3	1852.4	1720.7	1652.7	1631.5	1533.8	1487.0	1444.5
37.5°	7286.4	4707.5	2396.2	1814.2	1593.2	1538.0	1559.2	1470.0	1351.1	1261.8	1232.1
40°	7643.3	4686.2	2073.3	1572.0	1414.8	1402.0	1470.0	1300.1	1083.4	1006.9	964.4
42.5°	8157.4	4541.8	1822.7	1355.3	1274.6	1329.8	1342.6	1083.4	960.2	896.5	866.7
45°	8650.2	4571.5	1576.2	1121.6	1108.9	1189.6	1159.9	917.7	845.5	798.7	824.2
47.5°	9597.7	4720.2	1334.1	934.7	998.4	1074.9	900.7	820.0	752.0	718.0	722.3
50°	11063.4	4864.7	1121.6	854.0	943.2	972.9	773.3	743.5	739.3	671.3	667.0
52.5°	11942.9	4809.4	1083.4	955.9	1011.2	972.9	841.2	820.0	786.0	756.3	722.3
55°	13340.7	4970.9	1164.1	1117.4	1147.1	934.7	943.2	934.7	909.2	832.7	854.0
57.5°	14453.8	5077.1	1270.3	1249.1	1232.1	972.9	985.7	989.9	972.9	938.9	968.7
60°	15983.3	5289.5	1380.8	1385.1	1389.3	1057.9	1079.2	1104.6	1100.4	1087.6	1096.1
62.5°	16922.3	5191.8	1504.0	1572.0	1550.7	1232.1	1227.9	1244.8	1244.8	1266.1	1278.8
65°	16782.1	4830.7	1567.7	1737.7	1627.2	1359.6	1359.6	1368.1	1372.3	1414.8	1419.0
67°	15940.9	4184.9	1533.8	1763.2	1627.2	1410.5	1410.5	1419.0	1389.3	1499.8	1465.8
67.5°	15550.0	3993.7	1504.0	1741.9	1614.5	1406.3	1406.3	1410.5	1385.1	1491.3	1457.3
70°	13523.4	2965.5	1295.8	1542.3	1495.5	1368.1	1368.1	1342.6	1321.3	1461.5	1431.8
72.5°	11543.5	2154.1	1040.9	1312.8	1351.1	1317.1	1325.6	1261.8	1202.4	1300.1	1274.6
75°	8841.4	1584.7	811.5	1011.2	1142.9	1232.1	1287.3	1125.9	1049.4	1074.9	1028.2
77.5°	4932.7	1032.4	641.5	747.8	871.0	1147.1	1236.4	1015.4	858.2	828.5	828.5
80°	1674.0	603.3	471.6	556.6	599.1	1015.4	1155.6	824.2	675.5	645.8	624.5
82.5°	633.0	369.6	322.9	382.4	382.4	803.0	943.2	633.0	509.8	658.5	671.3
85°	288.9	220.9	212.4	220.9	220.9	492.8	667.0	412.1	458.9	395.1	348.4
87.5°	114.7	106.2	97.7	93.5	76.5	85.0	229.4	110.5	208.2	55.2	51.0
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)