

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: P636783

Luminaire Tested: **IFLD-M-SA4C-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636783  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14521.1 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

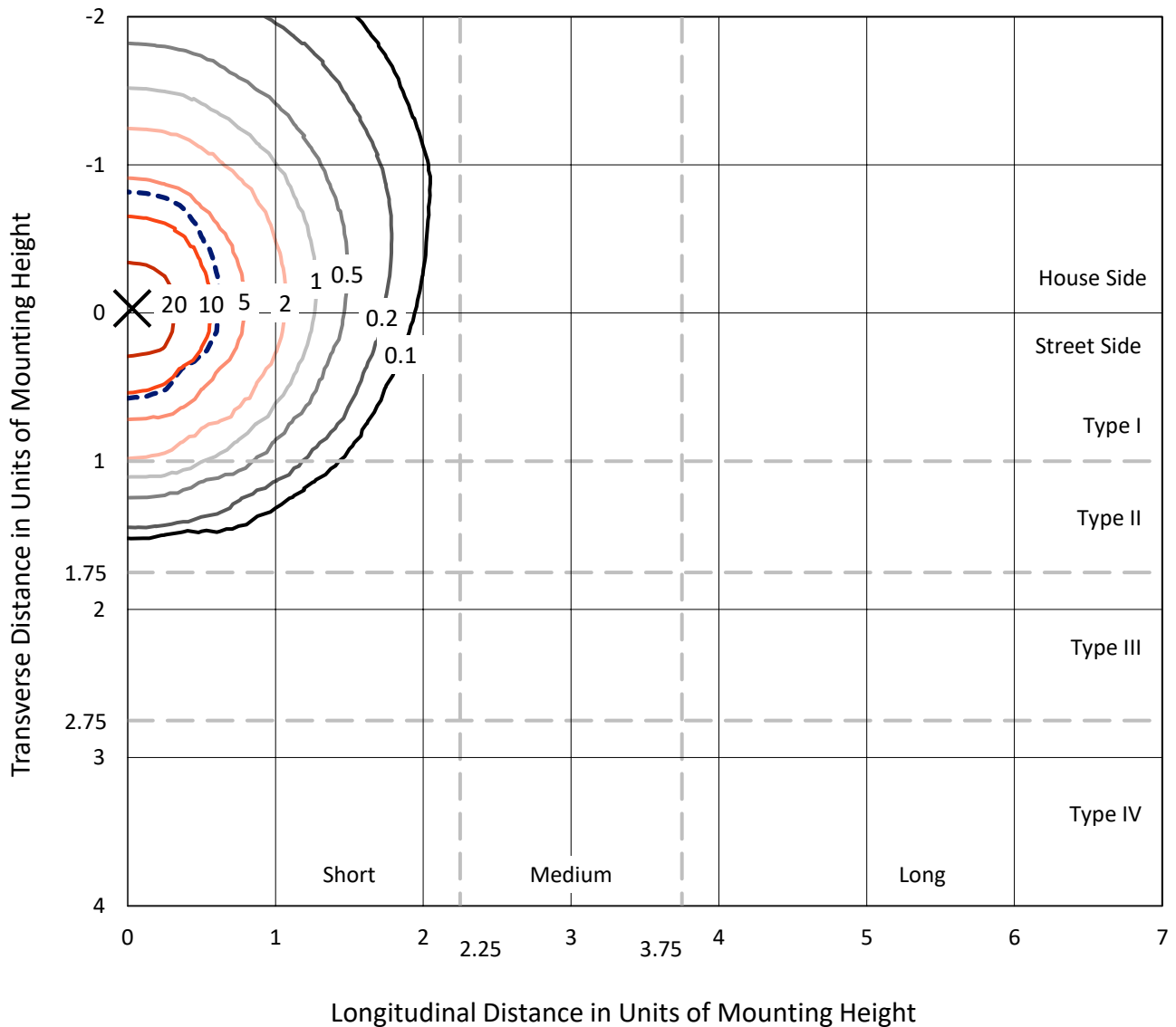
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636783  
 CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

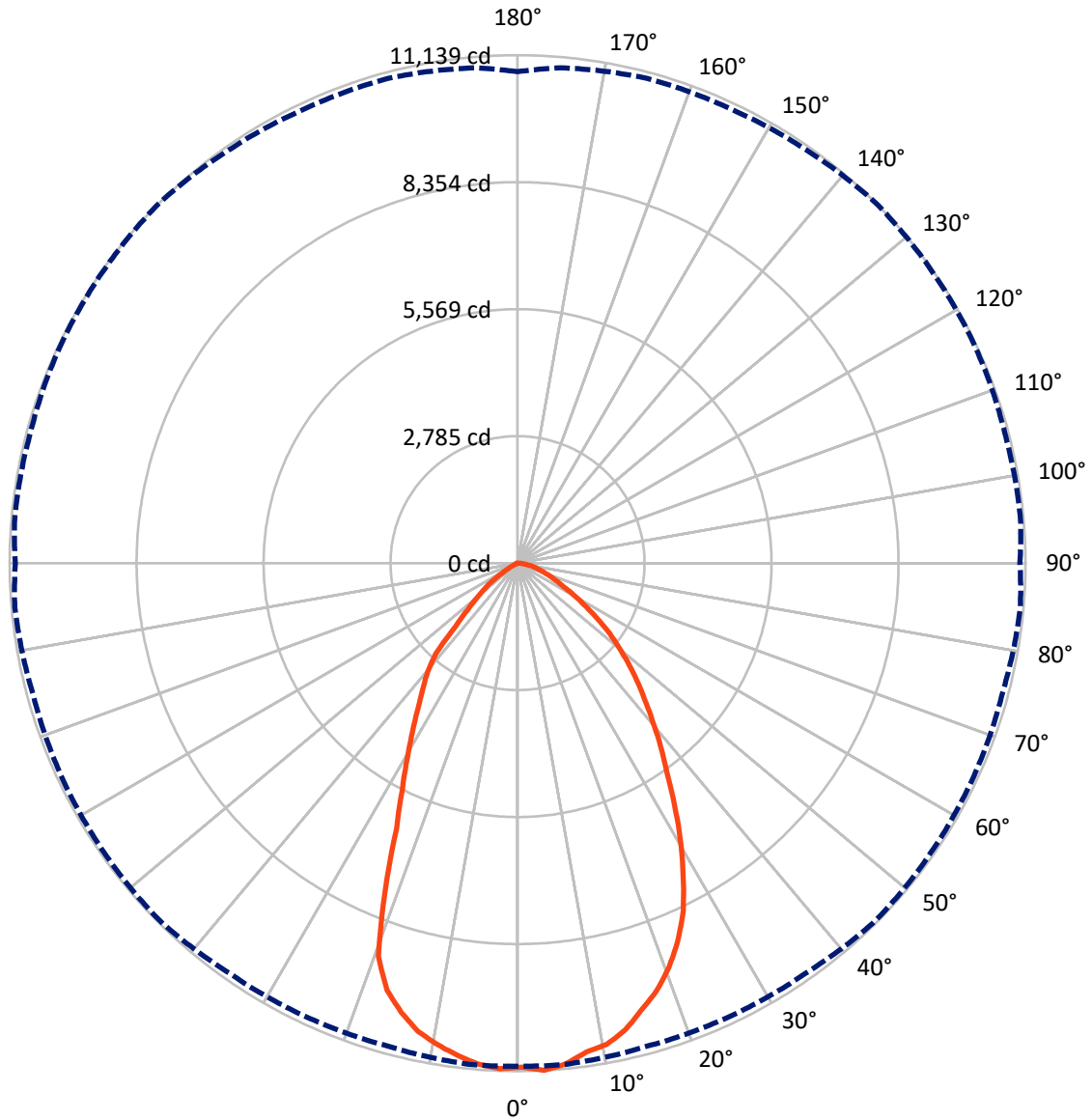
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P636783  
CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636783

CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8600.2	0.0	8600.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5921.0	0.0	5921.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	14521.1	0.0	14521.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1036.4	7.1
10°-20°	2779.1	19.1
20°-30°	3389.2	23.3
30°-40°	3094.3	21.3
40°-50°	2236.2	15.4
50°-60°	1221.0	8.4
60°-70°	504.8	3.5
70°-80°	204.5	1.4
80°-90°	55.6	0.4
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°	14521.1	100.0
0°-180°	14521.1	100.0



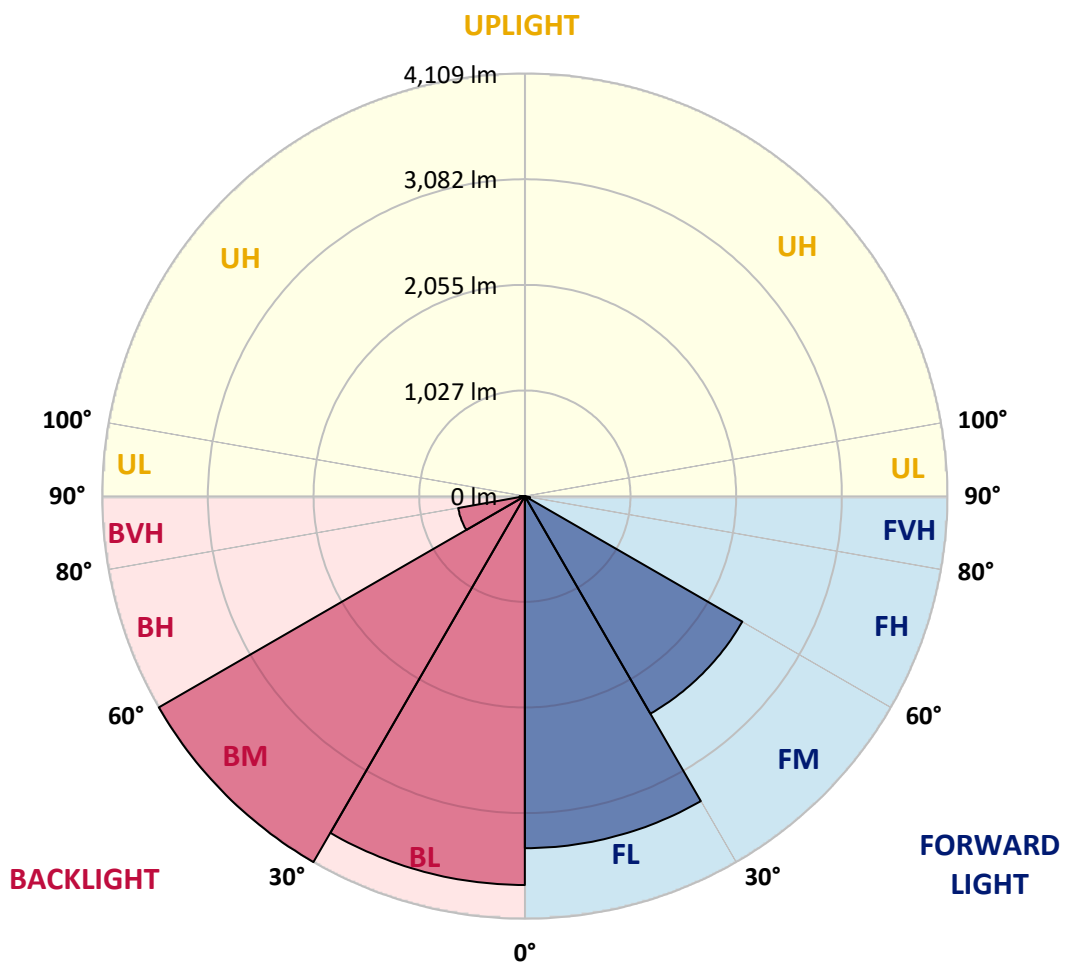
REPORT NUMBER: P636783  
 CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3423.2	23.6			
FM (30°-60°)	2442.2	16.8			
FH (60°-80°)	51.2	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	3781.5	26.0	B4/5000		
BM (30°-60°)	4109.4	28.3	B3/5000		
BH (60°-80°)	658.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	51.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





REPORT NUMBER: P636783  
 CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6
2.5°	11030.1	11044.4	10966.7	10974.9	10989.2	11093.5	11066.9	11042.4	11007.6	11066.9
5°	11015.8	11024.0	10942.2	10913.5	10925.8	11019.9	10934.0	10934.0	10925.8	10915.6
7.5°	10905.4	10909.5	10846.1	10794.9	10827.7	10870.6	10807.2	10837.9	10792.9	10827.7
10°	10739.7	10713.1	10637.5	10623.2	10660.0	10700.9	10657.9	10686.6	10645.7	10672.2
12.5°	10496.4	10455.5	10394.1	10375.7	10439.1	10494.3	10459.6	10443.2	10390.1	10455.5
15°	9557.8	9527.1	9666.2	9909.5	10128.3	10175.3	10138.5	10154.9	10044.5	10062.9
17.5°	7866.7	7809.4	7958.7	8535.3	9357.4	9790.9	9758.2	9651.9	9488.3	9525.1
20°	7148.9	7132.6	7116.2	7253.2	7827.8	9142.7	9187.7	8917.7	8684.6	8633.5
22.5°	6744.0	6737.9	6721.5	6752.2	6903.5	7748.1	8263.4	8013.9	7858.5	7844.2
25°	6373.9	6363.7	6314.6	6353.5	6353.5	6402.5	7063.0	7214.3	7077.3	7061.0
27.5°	5997.6	5979.2	5971.1	5989.5	5895.4	5564.1	5731.8	6470.0	6398.4	6402.5
30°	5590.7	5584.6	5562.1	5600.9	5310.6	4899.5	4793.2	5795.2	5809.5	5805.4
32.5°	4985.4	5012.0	5114.3	5157.2	4678.7	4339.2	4161.3	5014.1	5306.5	5300.3
35°	3621.5	3621.5	3954.8	4574.4	4100.0	3844.4	3748.3	4251.3	4809.6	4830.0
37.5°	2977.4	2987.6	3053.0	3335.2	3537.6	3447.7	3419.0	3578.5	4171.6	4204.3
40°	2678.8	2678.8	2678.8	2562.2	2556.1	3106.2	3089.8	3038.7	3603.1	3674.7
42.5°	2406.8	2413.0	2417.1	2122.6	1959.0	2684.9	2648.1	2570.4	3093.9	3177.7
45°	2126.7	2136.9	2149.2	1775.0	1703.4	1932.4	2241.2	2155.3	2590.9	2699.2
47.5°	1298.5	1314.9	1593.0	1505.0	1513.2	1490.7	1828.1	1813.8	2124.6	2278.0
50°	877.3	883.4	910.0	955.0	1298.5	1171.7	1294.4	1500.9	1613.4	1846.5
52.5°	736.2	746.4	680.9	619.6	852.7	916.1	903.8	1114.5	1159.4	1447.8
55°	517.4	550.1	519.4	513.3	484.6	711.6	685.0	856.8	885.4	1100.1
57.5°	53.2	61.3	106.3	382.4	317.0	402.8	488.7	627.8	656.4	811.8
60°	4.1	4.1	10.2	53.2	231.1	241.3	337.4	386.5	441.7	566.4
62.5°	0.0	2.0	4.1	8.2	36.8	128.8	169.7	202.4	265.8	366.0
65°	0.0	0.0	2.0	6.1	8.2	49.1	65.4	106.3	145.2	227.0
67.5°	0.0	0.0	2.0	4.1	6.1	12.3	22.5	38.9	77.7	128.8
70°	0.0	0.0	2.0	4.1	6.1	10.2	16.4	24.5	34.8	69.5
72.5°	0.0	0.0	2.0	2.0	4.1	10.2	12.3	16.4	24.5	34.8
75°	0.0	0.0	2.0	2.0	6.1	12.3	10.2	12.3	16.4	22.5
77.5°	0.0	0.0	2.0	4.1	6.1	12.3	10.2	12.3	12.3	14.3
80°	0.0	0.0	2.0	4.1	8.2	14.3	12.3	12.3	10.2	10.2
82.5°	0.0	0.0	2.0	6.1	8.2	18.4	18.4	16.4	8.2	6.1
85°	0.0	0.0	4.1	8.2	12.3	20.4	20.4	16.4	6.1	4.1
87.5°	0.0	0.0	4.1	6.1	10.2	14.3	20.4	16.4	6.1	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636783  
 CATALOG NUMBER: IFLD-M-SA4C-935-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11050.6	0°	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6	11050.6
11015.8	2.5°	11071.0	11058.7	11099.6	11116.0	11138.5	11052.6	10999.4	11001.5	10903.3
10891.0	5°	10956.5	10958.5	11011.7	11007.6	11030.1	10983.1	10962.6	10927.9	10842.0
10733.6	7.5°	10811.3	10792.9	10844.0	10882.9	10825.6	10858.3	10811.3	10827.7	10776.5
10594.5	10°	10698.8	10655.9	10702.9	10729.5	10731.5	10698.8	10653.8	10610.9	10592.5
10377.8	12.5°	10449.4	10394.1	10473.9	10510.7	10504.6	10441.2	10390.1	10400.3	10341.0
9997.4	15°	10105.8	10107.9	10165.1	10199.9	10167.2	10152.8	10156.9	10132.4	10081.3
9471.9	17.5°	9580.3	9611.0	9762.3	9846.1	9864.5	9835.9	9821.6	9792.9	9741.8
8633.5	20°	8705.1	8889.1	9159.0	9418.7	9469.9	9461.7	9410.6	9398.3	9369.7
7803.3	22.5°	7936.2	8073.2	8386.1	8791.0	8999.5	9020.0	8958.6	8940.2	8909.6
7061.0	25°	7140.7	7288.0	7570.2	8009.8	8441.3	8529.2	8519.0	8463.8	8431.1
6402.5	27.5°	6470.0	6617.2	6872.9	7269.6	7731.7	8013.9	8040.5	7952.6	7950.5
5815.6	30°	5864.7	6067.2	6261.4	6584.5	7032.4	7455.6	7500.6	7439.3	7445.4
5277.8	32.5°	5390.3	5558.0	5723.6	5940.4	6312.6	6805.4	6981.2	6924.0	6901.5
4830.0	35°	4905.7	5020.2	5189.9	5388.3	5641.8	6130.6	6435.2	6392.3	6369.8
4224.7	37.5°	4353.6	4549.9	4672.6	4895.5	5093.8	5482.3	5911.8	5905.6	5858.6
3709.4	40°	3787.1	3993.7	4179.7	4404.7	4558.0	4866.8	5343.3	5341.2	5347.4
3175.7	42.5°	3273.9	3464.0	3689.0	3934.4	4081.6	4306.5	4817.7	4846.4	4881.1
2736.1	45°	2809.7	2981.4	3190.0	3488.6	3666.5	3795.3	4249.3	4380.1	4378.1
2343.4	47.5°	2392.5	2554.1	2729.9	3020.3	3247.3	3363.8	3740.1	3926.2	3913.9
1922.2	50°	2008.1	2151.2	2335.3	2545.9	2850.6	2952.8	3233.0	3478.3	3459.9
1531.6	52.5°	1615.5	1813.8	1969.2	2161.4	2482.5	2582.7	2799.4	3038.7	3024.4
1149.2	55°	1259.6	1451.9	1640.0	1805.6	2075.6	2224.8	2380.2	2625.6	2621.5
899.7	57.5°	952.9	1163.5	1341.4	1498.9	1713.6	1897.7	2022.4	2245.3	2273.9
615.5	60°	705.5	867.0	1059.2	1235.1	1404.8	1595.0	1678.8	1897.7	1909.9
421.2	62.5°	480.5	658.5	846.6	1006.1	1132.9	1329.2	1404.8	1584.8	1607.3
269.9	65°	333.3	447.8	662.5	777.1	932.5	1100.1	1175.8	1318.9	1363.9
155.4	67.5°	220.8	319.0	517.4	621.6	775.0	889.5	985.6	1102.2	1151.3
98.2	70°	120.6	235.2	370.1	490.8	623.7	734.1	828.2	922.2	965.2
45.0	72.5°	81.8	157.5	257.7	388.5	503.0	611.4	695.3	764.8	766.8
26.6	75°	40.9	106.3	196.3	300.6	392.6	499.0	574.6	615.5	566.4
16.4	77.5°	24.5	77.7	159.5	241.3	319.0	402.8	445.8	468.3	388.5
12.3	80°	14.3	55.2	124.7	192.2	220.8	296.5	337.4	343.5	259.7
8.2	82.5°	10.2	40.9	98.2	141.1	135.0	208.6	253.6	245.4	165.6
6.1	85°	6.1	28.6	61.3	87.9	81.8	137.0	147.2	151.3	96.1
4.1	87.5°	4.1	16.4	32.7	47.0	38.9	59.3	59.3	71.6	47.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11050.6  
*10776.5*  
10821.5  
10690.7  
10510.7  
10289.9  
10030.2  
9719.3  
9304.2  
8901.4  
8396.3  
7946.4  
7414.7  
6903.5  
6339.1  
5897.4  
5347.4  
4862.7  
4382.2  
3918.0  
3476.3  
3055.1  
2631.8  
2261.6  
1928.3  
1611.4  
1353.7  
1145.1  
948.8  
748.4  
529.6  
374.2  
243.3  
153.4  
87.9  
40.9  
0.0

(END OF REPORT)