

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: P636787

Luminaire Tested: **IFLD-L-SA7B-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636787  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18188.5 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 281  
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

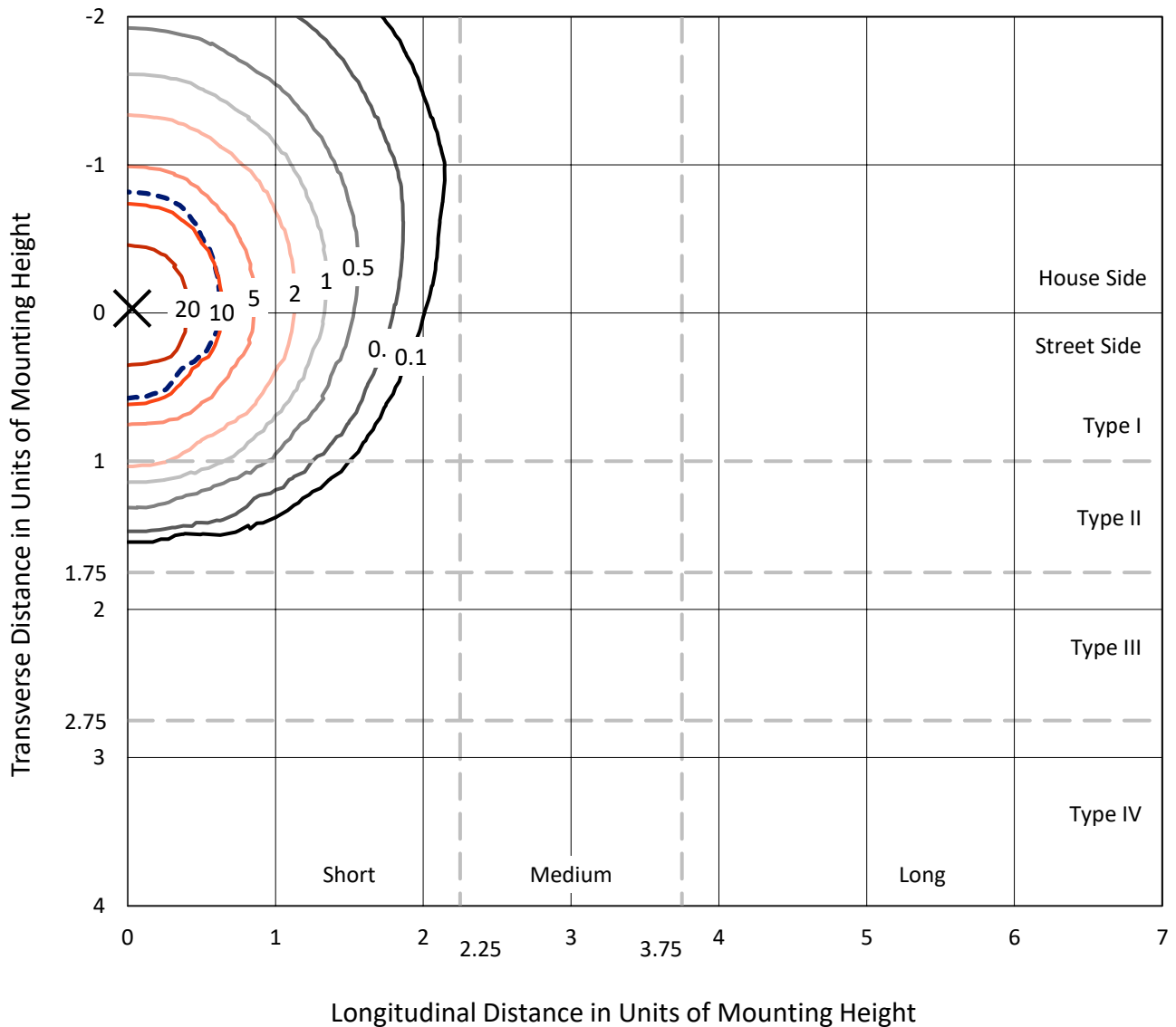




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### Iso-Footcandle Lines of Horizontal Illumination

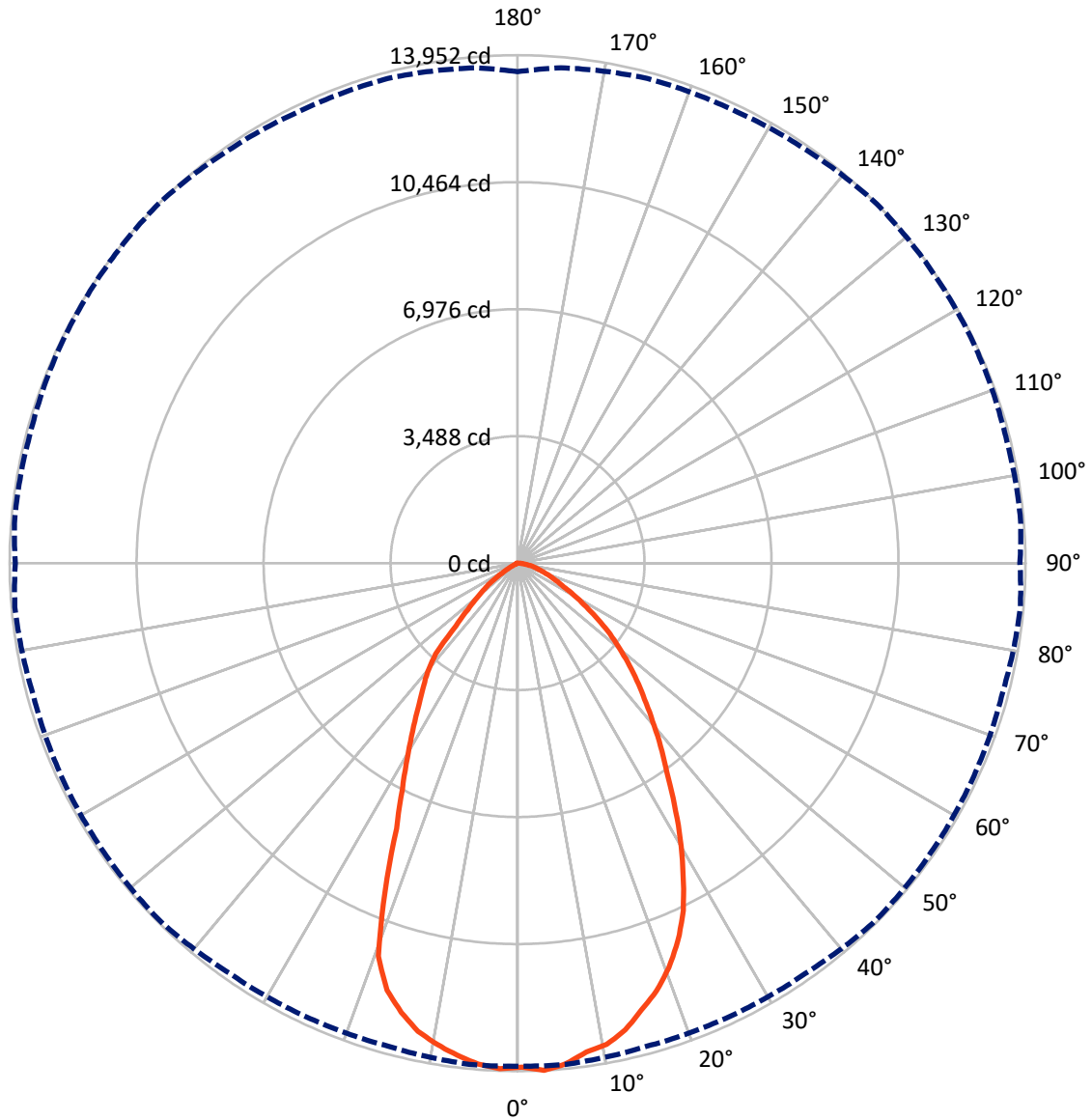
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10772.1	0.0	10772.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7416.3	0.0	7416.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	18188.5	0.0	18188.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1298.1	7.1
10°-20°	3480.9	19.1
20°-30°	4245.2	23.3
30°-40°	3875.8	21.3
40°-50°	2801.0	15.4
50°-60°	1529.3	8.4
60°-70°	632.3	3.5
70°-80°	256.1	1.4
80°-90°	69.7	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°	18188.5	100.0
0°-180°	18188.5	100.0



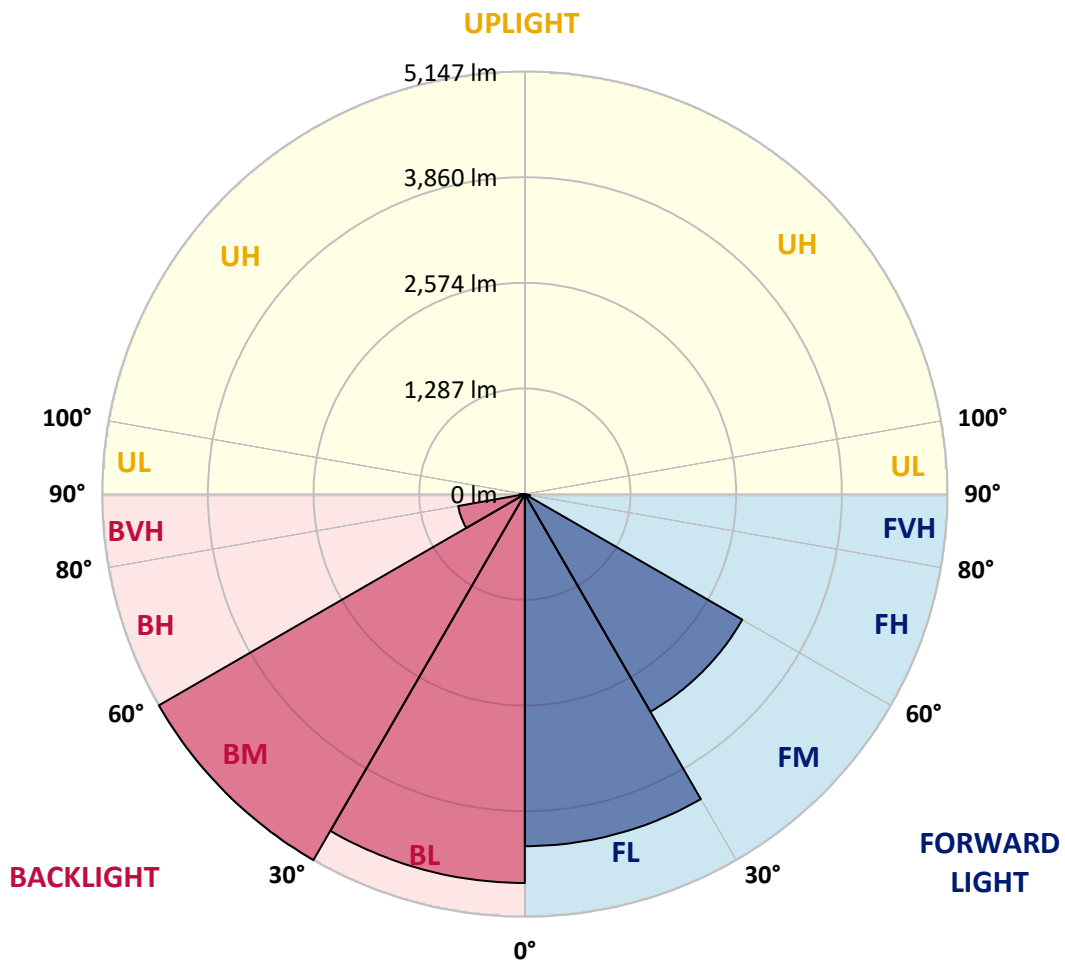
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4287.7	23.6			
FM (30°-60°)	3059.0	16.8			
FH (60°-80°)	64.1	0.4			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	4736.5	26.0	B4/5000		
BM (30°-60°)	5147.2	28.3	B4/8500		
BH (60°-80°)	824.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	64.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4
2.5°	13815.7	13833.7	13736.3	13746.6	13764.5	13895.1	13861.8	13831.1	13787.6	13861.8
5°	13797.8	13808.1	13705.6	13669.8	13685.1	13802.9	13695.4	13695.4	13685.1	13672.3
7.5°	13659.5	13664.6	13585.2	13521.2	13562.2	13616.0	13536.6	13575.0	13518.6	13562.2
10°	13452.0	13418.7	13324.0	13306.0	13352.1	13403.4	13349.6	13385.4	13334.2	13367.5
12.5°	13147.2	13096.0	13019.2	12996.1	13075.5	13144.7	13101.1	13080.6	13014.1	13096.0
15°	11971.6	11933.2	12107.3	12412.1	12686.2	12745.1	12699.0	12719.5	12581.2	12604.2
17.5°	9853.4	9781.7	9968.6	10690.9	11720.6	12263.6	12222.6	12089.4	11884.5	11930.6
20°	8954.4	8933.9	8913.4	9085.0	9804.7	11451.6	11508.0	11169.9	10877.9	10813.9
22.5°	8447.2	8439.5	8419.0	8457.5	8647.0	9704.8	10350.3	10037.8	9843.1	9825.2
25°	7983.6	7970.8	7909.3	7958.0	7958.0	8019.5	8846.8	9036.3	8864.7	8844.2
27.5°	7512.3	7489.3	7479.0	7502.1	7384.3	6969.3	7179.4	8104.0	8014.4	8019.5
30°	7002.6	6995.0	6966.8	7015.4	6651.7	6136.9	6003.7	7258.8	7276.7	7271.6
32.5°	6244.5	6277.8	6405.9	6459.6	5860.3	5435.1	5212.3	6280.3	6646.6	6638.9
35°	4536.1	4536.1	4953.6	5729.7	5135.4	4815.3	4694.9	5325.0	6024.2	6049.8
37.5°	3729.3	3742.1	3824.0	4177.5	4431.1	4318.4	4282.5	4482.3	5225.1	5266.1
40°	3355.3	3355.3	3355.3	3209.3	3201.6	3890.6	3870.2	3806.1	4513.0	4602.7
42.5°	3014.7	3022.4	3027.5	2658.6	2453.7	3363.0	3316.9	3219.6	3875.3	3980.3
45°	2663.8	2676.6	2691.9	2223.2	2133.6	2420.4	2807.2	2699.6	3245.2	3380.9
47.5°	1626.4	1646.9	1995.3	1885.1	1895.4	1867.2	2289.8	2271.9	2661.2	2853.3
50°	1098.8	1106.5	1139.8	1196.1	1626.4	1467.6	1621.3	1880.0	2020.9	2312.9
52.5°	922.1	934.9	852.9	776.1	1068.1	1147.5	1132.1	1395.9	1452.3	1813.4
55°	648.0	689.0	650.6	642.9	607.0	891.3	858.0	1073.2	1109.1	1378.0
57.5°	66.6	76.8	133.2	479.0	397.0	504.6	612.2	786.3	822.2	1016.8
60°	5.1	5.1	12.8	66.6	289.4	302.2	422.6	484.1	553.2	709.5
62.5°	0.0	2.6	5.1	10.2	46.1	161.4	212.6	253.6	333.0	458.5
65°	0.0	0.0	2.6	7.7	10.2	61.5	82.0	133.2	181.9	284.3
67.5°	0.0	0.0	2.6	5.1	7.7	15.4	28.2	48.7	97.3	161.4
70°	0.0	0.0	2.6	5.1	7.7	12.8	20.5	30.7	43.5	87.1
72.5°	0.0	0.0	2.6	2.6	5.1	12.8	15.4	20.5	30.7	43.5
75°	0.0	0.0	2.6	2.6	7.7	15.4	12.8	15.4	20.5	28.2
77.5°	0.0	0.0	2.6	5.1	7.7	15.4	12.8	15.4	15.4	17.9
80°	0.0	0.0	2.6	5.1	10.2	17.9	15.4	15.4	12.8	12.8
82.5°	0.0	0.0	2.6	7.7	10.2	23.1	23.1	20.5	10.2	7.7
85°	0.0	0.0	5.1	10.2	15.4	25.6	25.6	20.5	7.7	5.1
87.5°	0.0	0.0	5.1	7.7	12.8	17.9	25.6	20.5	7.7	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13841.4	0°	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4	13841.4
13797.8	2.5°	13867.0	13851.6	13902.8	13923.3	13951.5	13843.9	13777.3	13779.9	13656.9
13641.6	5°	13723.5	13726.1	13792.7	13787.6	13815.7	13756.8	13731.2	13687.7	13580.1
13444.4	7.5°	13541.7	13518.6	13582.7	13631.3	13559.6	13600.6	13541.7	13562.2	13498.1
13270.2	10°	13400.8	13347.0	13405.9	13439.2	13441.8	13400.8	13344.5	13290.7	13267.6
12998.7	12.5°	13088.3	13019.2	13119.1	13165.2	13157.5	13078.1	13014.1	13026.9	12952.6
12522.3	15°	12658.0	12660.6	12732.3	12775.9	12734.9	12716.9	12722.1	12691.3	12627.3
11864.0	17.5°	11999.8	12038.2	12227.7	12332.7	12355.8	12319.9	12302.0	12266.1	12202.1
10813.9	20°	10903.5	11134.0	11472.1	11797.4	11861.5	11851.2	11787.2	11771.8	11736.0
9774.0	22.5°	9940.5	10112.1	10504.0	11011.1	11272.4	11298.0	11221.1	11198.1	11159.7
8844.2	25°	8944.1	9128.5	9482.0	10032.7	10573.1	10683.3	10670.4	10601.3	10560.3
8019.5	27.5°	8104.0	8288.4	8608.6	9105.5	9684.3	10037.8	10071.1	9961.0	9958.4
7284.4	30°	7345.9	7599.4	7842.8	8247.4	8808.4	9338.6	9394.9	9318.1	9325.8
6610.8	32.5°	6751.6	6961.7	7169.1	7440.6	7906.8	8524.1	8744.3	8672.6	8644.4
6049.8	35°	6144.6	6288.0	6500.6	6749.1	7066.7	7678.8	8060.5	8006.7	7978.5
5291.7	37.5°	5453.0	5698.9	5852.6	6131.8	6380.2	6866.9	7404.8	7397.1	7338.2
4646.2	40°	4743.6	5002.3	5235.3	5517.1	5709.2	6095.9	6692.7	6690.2	6697.8
3977.7	42.5°	4100.7	4338.9	4620.6	4928.0	5112.4	5394.1	6034.5	6070.3	6113.9
3427.0	45°	3519.2	3734.4	3995.7	4369.6	4592.4	4753.8	5322.4	5486.3	5483.8
2935.3	47.5°	2996.7	3199.1	3419.4	3783.1	4067.4	4213.4	4684.6	4917.7	4902.4
2407.6	50°	2515.2	2694.5	2925.0	3188.8	3570.5	3698.5	4049.4	4356.8	4333.7
1918.4	52.5°	2023.4	2271.9	2466.5	2707.3	3109.4	3234.9	3506.4	3806.1	3788.2
1439.5	55°	1577.8	1818.5	2054.2	2261.6	2599.7	2786.7	2981.4	3288.7	3283.6
1127.0	57.5°	1193.6	1457.4	1680.2	1877.4	2146.4	2376.9	2533.1	2812.3	2848.2
771.0	60°	883.7	1086.0	1326.8	1547.0	1759.6	1997.8	2102.8	2376.9	2392.3
527.6	62.5°	601.9	824.7	1060.4	1260.2	1419.0	1664.9	1759.6	1985.0	2013.2
338.1	65°	417.5	560.9	829.9	973.3	1168.0	1378.0	1472.8	1652.0	1708.4
194.7	67.5°	276.6	399.6	648.0	778.6	970.7	1114.2	1234.6	1380.5	1442.0
122.9	70°	151.1	294.6	463.6	614.7	781.2	919.5	1037.3	1155.2	1208.9
56.3	72.5°	102.5	197.2	322.7	486.7	630.1	765.8	870.8	957.9	960.5
33.3	75°	51.2	133.2	245.9	376.5	491.8	625.0	719.7	771.0	709.5
20.5	77.5°	30.7	97.3	199.8	302.2	399.6	504.6	558.4	586.5	486.7
15.4	80°	17.9	69.2	156.2	240.8	276.6	371.4	422.6	430.3	325.3
10.2	82.5°	12.8	51.2	122.9	176.7	169.0	261.3	317.6	307.4	207.5
7.7	85°	7.7	35.9	76.8	110.1	102.5	171.6	184.4	189.5	120.4
5.1	87.5°	5.1	20.5	41.0	58.9	48.7	74.3	74.3	89.6	58.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13841.4  
*13498.1*  
13554.5  
13390.6  
13165.2  
12888.5  
12563.3  
12173.9  
11654.0  
11149.4  
10516.8  
9953.3  
9287.3  
8647.0  
7940.1  
7386.8  
6697.8  
6090.8  
5488.9  
4907.5  
4354.2  
3826.6  
3296.4  
2832.8  
2415.3  
2018.3  
1695.6  
1434.3  
1188.5  
937.4  
663.4  
468.7  
304.8  
192.1  
110.1  
51.2  
0.0

(END OF REPORT)