

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: P638548

Luminaire Tested: **IFLD-S-SA6D-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638548  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26777 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

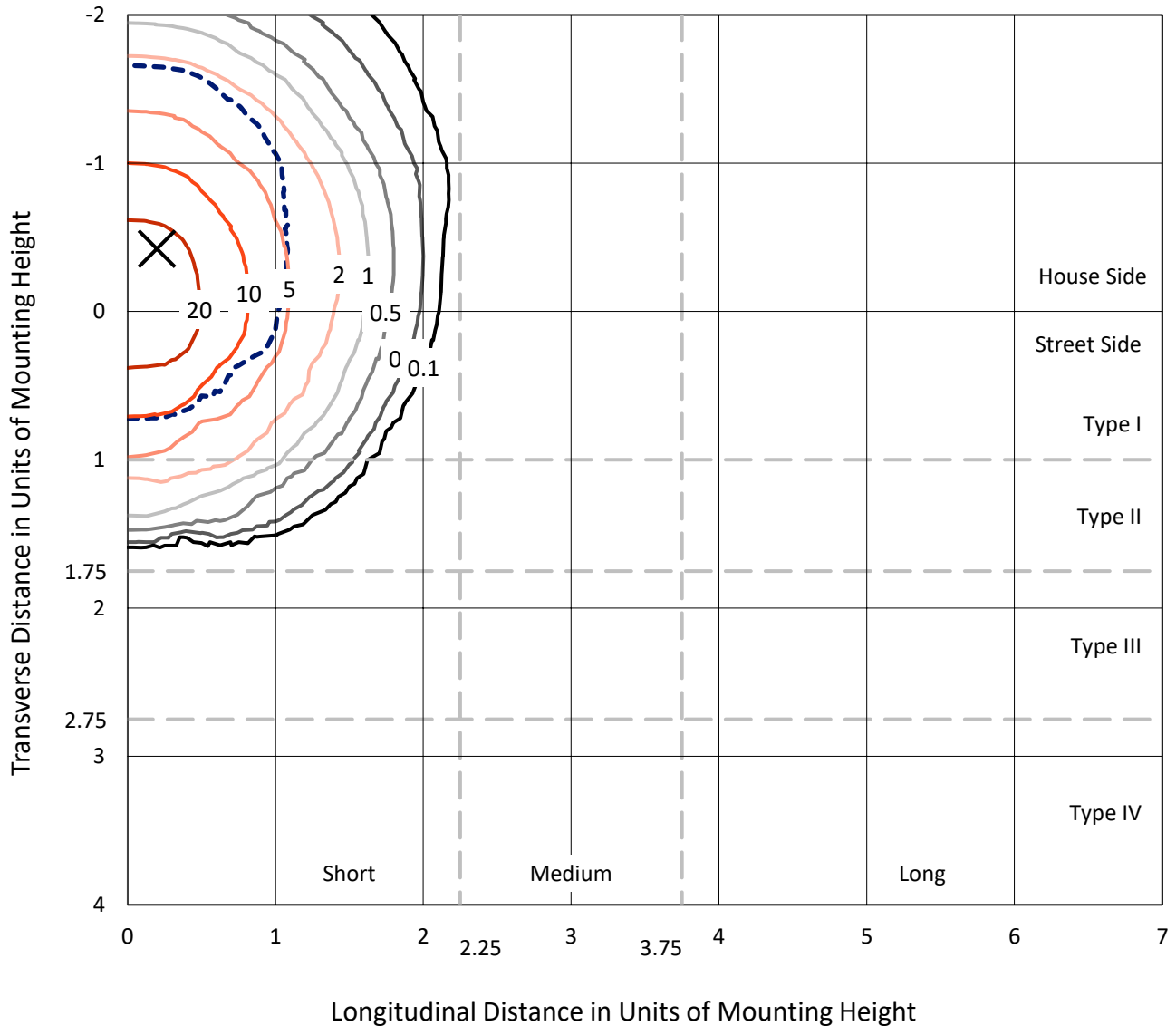
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

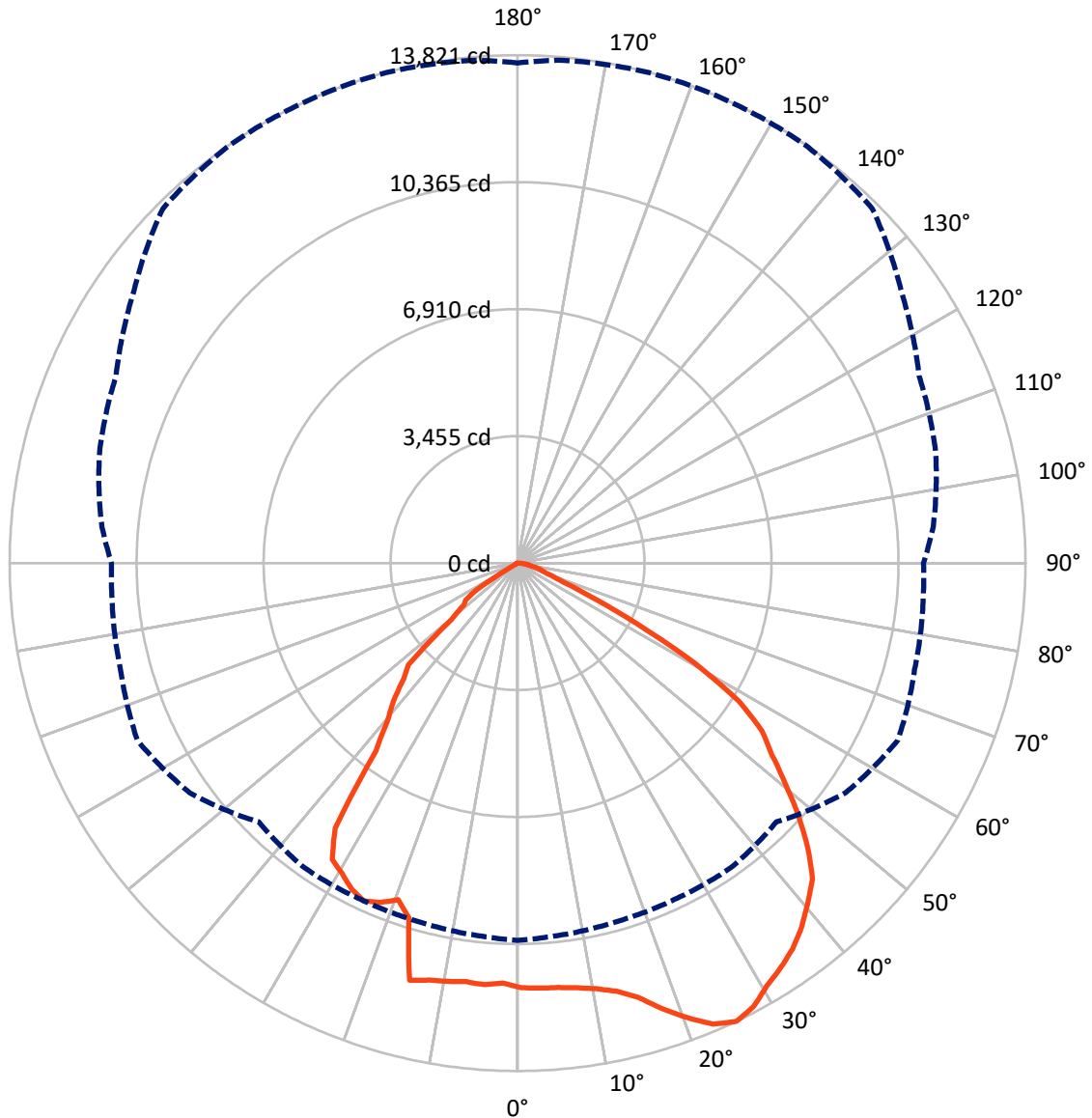
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16577.7	0.0	16577.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10199.3	0.0	10199.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	26777.0	0.0	26777.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1108.4	4.1
10°-20°	3384.5	12.6
20°-30°	5350.8	20.0
30°-40°	6044.2	22.6
40°-50°	5660.5	21.1
50°-60°	3902.5	14.6
60°-70°	1048.5	3.9
70°-80°	218.5	0.8
80°-90°	59.1	0.2
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°	26777.0	100.0
0°-180°	26777.0	100.0



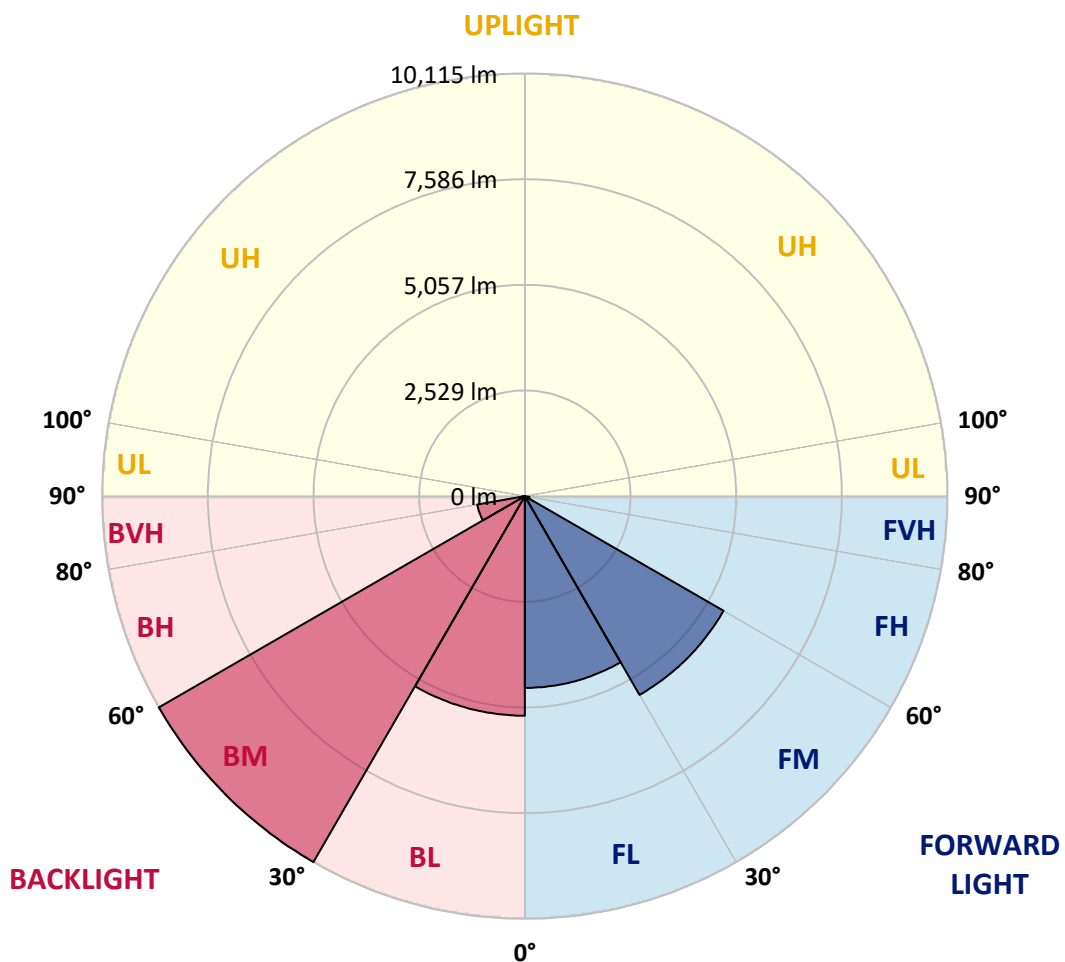
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4588.7	17.1			
FM (30°-60°)	5492.6	20.5			
FH (60°-80°)	110.1	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	5255.0	19.6	B5		
BM (30°-60°)	10114.6	37.8	B5		
BH (60°-80°)	1156.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	51.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8
2.5°	11604.9	11530.2	11459.3	11435.7	11534.1	11640.4	11573.5	11577.4	11553.8	11597.1
5°	11691.5	11589.2	11542.0	11506.6	11522.3	11632.5	11538.0	11573.5	11534.1	11585.3
7.5°	11660.0	11589.2	11542.0	11475.1	11526.2	11656.1	11565.6	11569.5	11549.8	11597.1
10°	11640.4	11589.2	11530.2	11538.0	11597.1	11707.3	11636.4	11675.8	11648.2	11675.8
12.5°	11687.6	11632.5	11601.0	11601.0	11652.2	11778.1	11742.7	11778.1	11766.3	11789.9
15°	11242.9	11294.1	11593.1	11726.9	11829.2	11955.2	11939.4	11974.8	11982.7	12018.1
17.5°	9483.9	9432.7	9409.1	10097.8	11927.6	12317.2	12305.4	12301.5	12262.1	12234.6
20°	9716.0	9696.4	9668.8	9720.0	9924.6	12506.1	12584.8	12100.8	11959.1	11947.3
22.5°	10085.9	10054.5	9952.2	9956.1	10019.0	10873.0	12195.2	11754.5	11707.3	11679.7
25°	10267.0	10204.0	10121.4	10097.8	10117.4	9960.0	10892.7	11416.0	11183.9	11077.6
27.5°	9948.2	9952.2	9885.3	9948.2	9873.4	9165.1	8767.7	10754.9	10747.1	10699.8
30°	9708.2	9696.4	9617.7	9696.4	9180.8	8389.9	8220.7	10030.9	9948.2	9885.3
32.5°	8972.3	8980.2	9208.4	9515.3	8669.3	8043.6	7532.0	8960.5	9743.6	9708.2
35°	6418.3	6434.1	7244.7	8759.8	7894.0	7354.9	7315.6	7744.5	9420.9	9436.6
37.5°	6178.3	6178.3	6158.6	6406.5	7284.1	7075.5	7154.2	7110.9	8629.9	8669.3
40°	6005.1	5969.7	5942.2	5552.6	5064.6	6878.8	6933.8	6737.1	8157.7	8165.6
42.5°	5796.6	5757.2	5765.1	5044.9	4533.4	6390.8	6237.3	5973.7	7370.7	7378.5
45°	5414.9	5481.8	5529.0	4415.3	4376.0	4564.8	5753.3	5588.0	6839.4	6985.0
47.5°	2754.6	2813.7	4316.9	4061.1	4151.6	4057.2	4860.0	4863.9	5690.3	6174.3
50°	2498.9	2483.1	2487.1	2369.0	3832.9	3282.0	3514.1	4458.6	4557.0	5249.6
52.5°	2329.6	2325.7	2085.7	1853.5	2408.3	2888.4	2550.0	3226.9	3388.2	4446.8
55°	1723.6	1849.5	1644.9	1743.3	1507.2	2313.9	2302.1	2912.1	2967.1	3565.3
57.5°	15.7	19.7	47.2	1326.2	1042.8	1157.0	1589.8	1987.3	2085.7	2778.3
60°	3.9	7.9	19.7	39.4	676.9	712.3	1062.5	1149.1	1294.7	1656.7
62.5°	0.0	0.0	7.9	19.7	35.4	291.2	338.4	369.9	570.6	846.1
65°	0.0	0.0	3.9	11.8	19.7	47.2	82.6	173.1	247.9	306.9
67.5°	0.0	0.0	3.9	7.9	15.7	23.6	47.2	66.9	106.3	181.0
70°	0.0	0.0	3.9	7.9	11.8	19.7	31.5	47.2	63.0	90.5
72.5°	0.0	0.0	3.9	7.9	7.9	23.6	23.6	35.4	47.2	59.0
75°	0.0	0.0	3.9	3.9	7.9	15.7	23.6	27.5	31.5	47.2
77.5°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	31.5	27.5	27.5
80°	0.0	0.0	3.9	11.8	11.8	19.7	23.6	31.5	19.7	19.7
82.5°	0.0	0.0	3.9	15.7	11.8	39.4	39.4	43.3	15.7	15.7
85°	0.0	0.0	11.8	7.9	23.6	39.4	35.4	23.6	19.7	11.8
87.5°	0.0	0.0	3.9	3.9	7.9	11.8	27.5	23.6	7.9	7.9
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°
11553.8	0°	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8	11553.8
11482.9	2.5°	11640.4	11589.2	11695.4	11683.6	11632.5	11608.9	11581.3	11557.7	11384.6
11490.8	5°	11644.3	11565.6	11695.4	11671.8	11664.0	11624.6	11601.0	11636.4	11479.0
11522.3	7.5°	11644.3	11565.6	11707.3	11715.1	11703.3	11671.8	11667.9	11691.5	11561.7
11577.4	10°	11723.0	11691.5	11809.6	11821.4	11805.6	11797.8	11778.1	11762.3	11624.6
11766.3	12.5°	11888.3	11825.3	11959.1	11994.5	11982.7	12002.4	11955.2	11978.8	11837.1
11959.1	15°	12089.0	12092.9	12195.2	12273.9	12266.1	12329.0	12258.2	12321.1	12218.8
12179.5	17.5°	12395.9	12439.2	12584.8	12702.9	12746.2	12793.4	12746.2	12765.8	12620.2
11935.5	20°	12073.2	12234.6	12935.0	13151.5	13242.0	13285.3	13206.6	13230.2	13084.6
11636.4	22.5°	11782.0	11990.6	12612.4	13289.2	13568.6	13655.2	13627.6	13623.7	13568.6
11046.1	25°	11353.1	11774.2	12053.6	12769.8	13647.3	13804.7	13820.5	13816.5	13733.9
10684.1	27.5°	10825.8	10920.2	11644.3	12081.1	13096.4	13694.5	13670.9	13556.8	13446.6
9932.5	30°	10152.8	10581.8	10908.4	11604.9	12384.1	13356.1	13356.1	13269.5	13155.4
9664.9	32.5°	9810.5	10365.3	10668.4	10920.2	11585.3	12978.3	13135.7	13045.2	12954.7
9456.3	35°	9629.5	9712.1	10420.4	10648.7	11211.4	12250.3	12887.8	12797.3	12730.4
8901.4	37.5°	9232.0	9424.8	9755.4	10365.3	10538.5	11656.1	12557.3	12510.0	12431.3
8181.3	40°	8346.6	8862.1	9369.7	9948.2	10129.2	10892.7	12155.9	12175.5	12069.3
7413.9	42.5°	7823.2	8173.4	8968.3	9357.9	9845.9	10400.8	11766.3	11797.8	11723.0
7024.4	45°	7209.3	7598.9	8157.7	8866.0	9531.1	9723.9	11077.6	11408.2	11345.2
6249.1	47.5°	6646.6	6961.4	7646.1	8362.3	9098.2	9070.7	10286.6	10908.4	10821.8
5654.9	50°	5847.7	6398.7	6721.3	7378.5	8476.4	8551.2	9444.5	10322.1	10251.2
4804.9	52.5°	4930.8	5623.4	6241.2	6843.3	7846.8	8023.9	8661.4	9723.9	9676.7
3671.6	55°	4309.1	4812.8	5509.3	5993.3	7083.4	7555.6	8075.1	9153.3	9129.7
3018.3	57.5°	3065.5	4037.5	4612.1	5288.9	5863.5	6717.4	7103.1	7992.4	7772.0
1672.5	60°	2077.8	2534.3	3234.7	3962.8	4348.4	5202.4	5560.5	6272.7	6213.7
999.5	62.5°	1097.9	1519.0	2018.8	2384.7	2664.1	3494.5	3644.0	4411.4	4391.7
401.4	65°	484.0	641.4	1094.0	1282.9	1570.1	1955.8	2085.7	2361.1	2294.2
196.8	67.5°	251.9	381.7	617.8	759.5	956.3	1101.9	1208.1	1294.7	1349.8
129.9	70°	153.5	279.4	381.7	527.3	657.2	775.2	857.9	975.9	1046.8
66.9	72.5°	114.1	177.1	263.7	405.3	476.2	613.9	696.5	783.1	846.1
55.1	75°	63.0	118.1	212.5	318.8	381.7	499.8	574.5	633.6	653.2
31.5	77.5°	39.4	90.5	177.1	247.9	299.1	405.3	385.7	440.7	488.0
23.6	80°	27.5	66.9	137.7	204.6	208.6	259.7	306.9	354.2	385.7
15.7	82.5°	19.7	55.1	102.3	157.4	137.7	200.7	240.0	275.5	200.7
11.8	85°	15.7	39.4	51.2	94.4	78.7	141.7	122.0	118.1	78.7
7.9	87.5°	11.8	19.7	35.4	43.3	31.5	31.5	39.4	47.2	39.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11553.8  
11266.5  
11345.2  
11412.1  
11510.5  
11711.2  
12049.6  
12494.3  
12982.3  
13391.5  
*13608.0*  
13360.0  
13112.1  
12879.9  
12636.0  
12352.6  
12045.7  
11715.1  
11353.1  
10884.8  
10263.0  
9708.2  
9157.2  
7748.4  
6217.6  
4395.6  
2266.7  
1349.8  
1050.7  
857.9  
641.4  
495.8  
389.6  
145.6  
78.7  
39.4  
0.0

(END OF REPORT)