

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: P638126

Luminaire Tested: **IFLD-L-SA8B-730-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638126  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28506.1 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

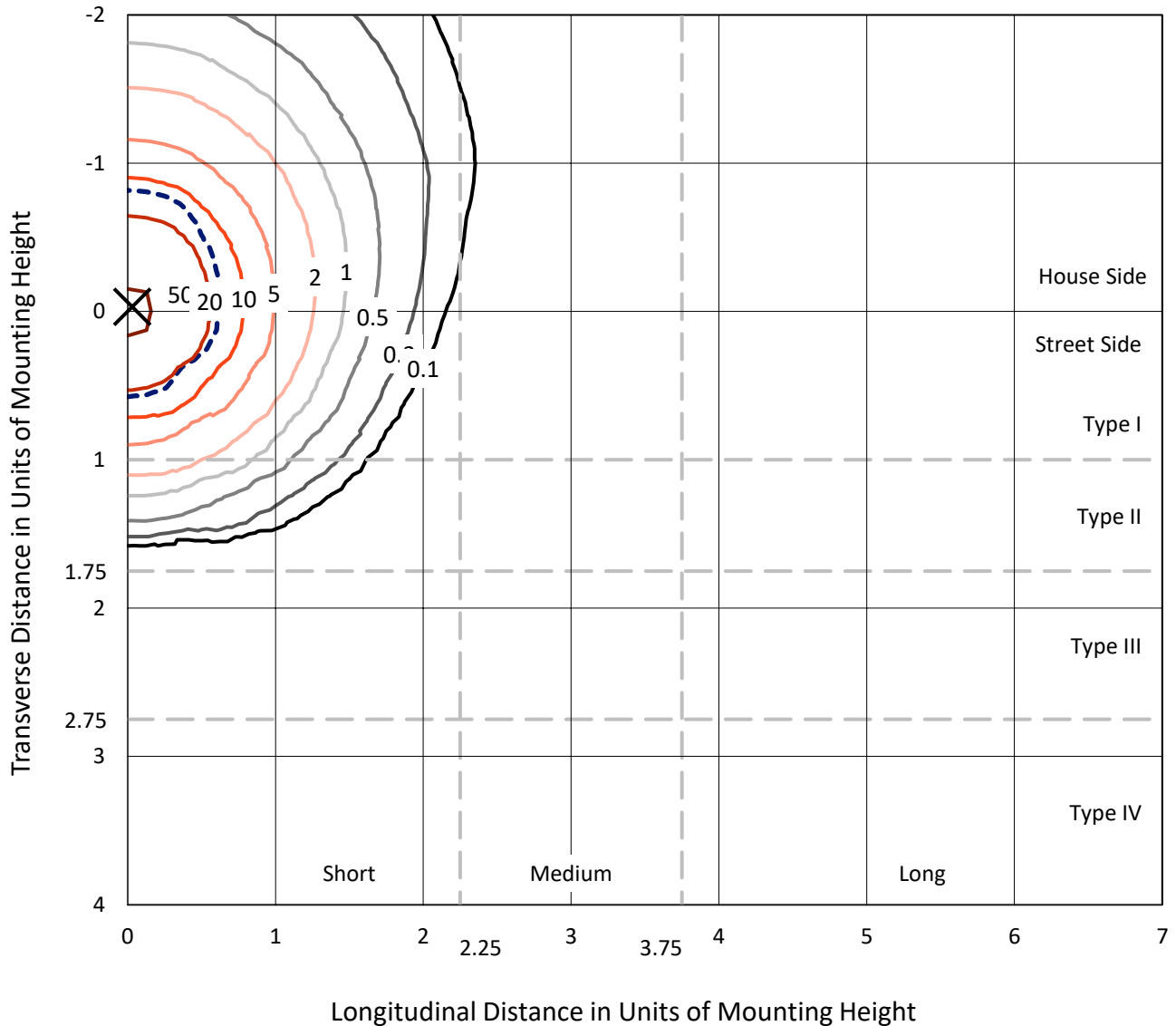
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

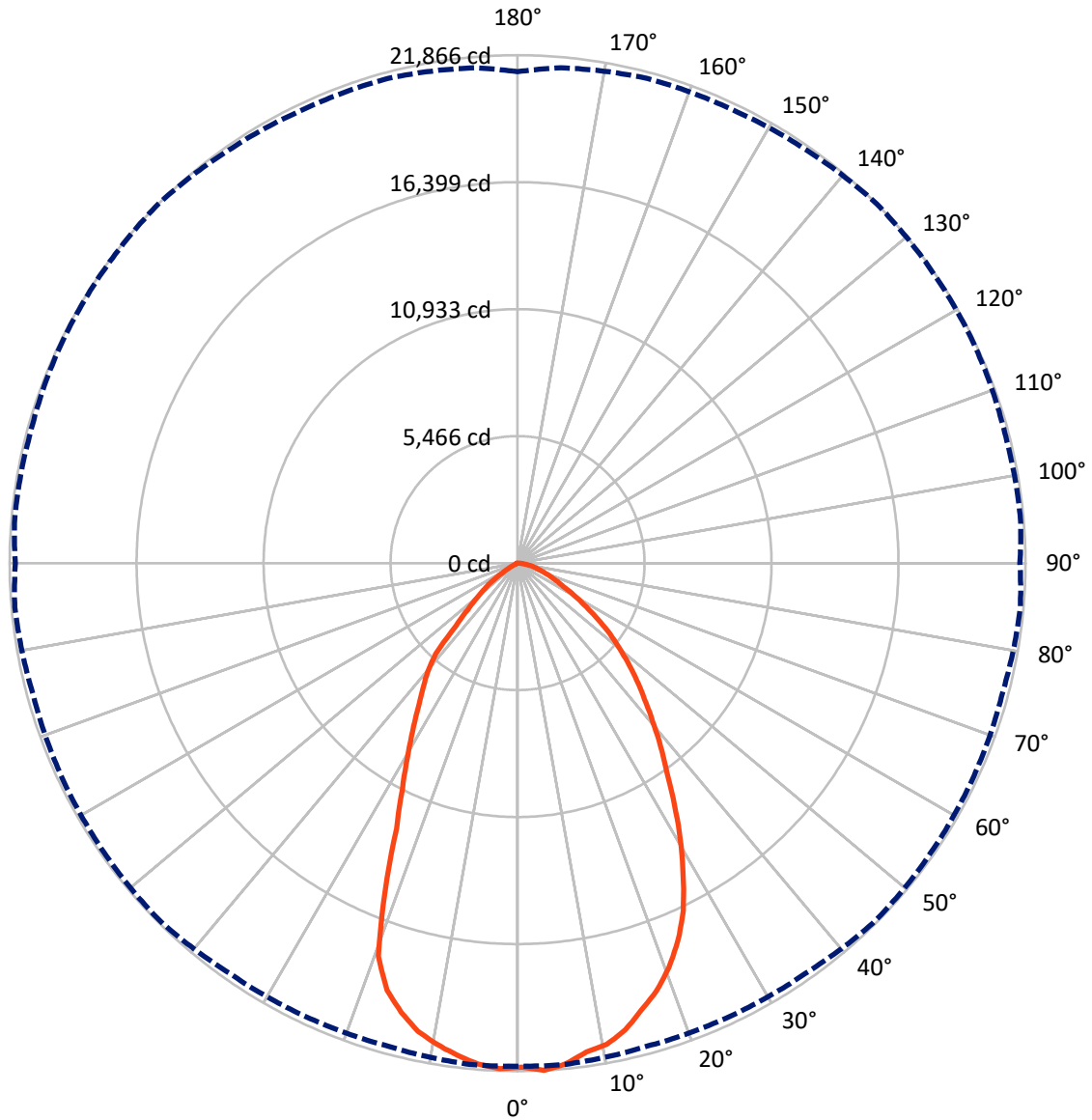
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.2 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	16882.8	0.0	16882.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11623.4	0.0	11623.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	28506.1	0.0	28506.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2034.5	7.1
10°-20°	5455.6	19.1
20°-30°	6653.3	23.3
30°-40°	6074.4	21.3
40°-50°	4389.9	15.4
50°-60°	2396.9	8.4
60°-70°	991.0	3.5
70°-80°	401.4	1.4
80°-90°	109.2	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°	28506.1	100.0
0°-180°	28506.1	100.0



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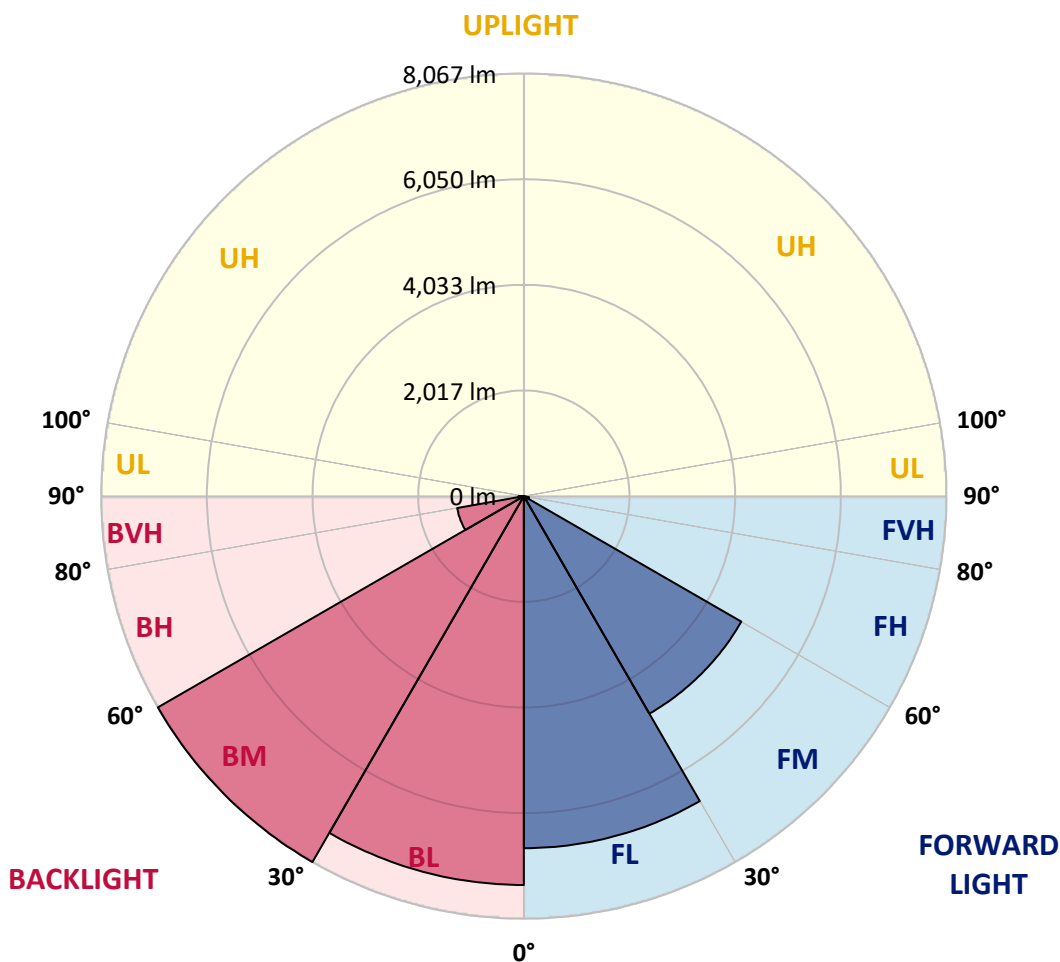
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6720.0	23.6			
FM (30°-60°)	4794.2	16.8			
FH (60°-80°)	100.5	0.4			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	7423.4	26.0	B5		
BM (30°-60°)	8067.0	28.3	B4/8500		
BH (60°-80°)	1291.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	100.4	0.4			G2/225
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°	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1
2.5°	21652.9	21681.0	21528.5	21544.6	21572.7	21777.4	21725.2	21677.0	21608.8	21725.2
5°	21624.8	21640.9	21480.3	21424.1	21448.2	21632.9	21464.3	21464.3	21448.2	21428.1
7.5°	21408.1	21416.1	21291.7	21191.3	21255.5	21339.8	21215.4	21275.6	21187.3	21255.5
10°	21082.9	21030.7	20882.2	20854.1	20926.4	21006.6	20922.3	20978.5	20898.3	20950.4
12.5°	20605.2	20524.9	20404.5	20368.4	20492.8	20601.2	20533.0	20500.8	20396.5	20524.9
15°	18762.7	18702.5	18975.4	19453.1	19882.7	19975.0	19902.7	19934.8	19718.1	19754.2
17.5°	15442.9	15330.5	15623.5	16755.5	18369.3	19220.3	19156.1	18947.3	18626.2	18698.4
20°	14033.9	14001.8	13969.6	14238.6	15366.6	17947.8	18036.1	17506.2	17048.6	16948.2
22.5°	13239.0	13227.0	13194.9	13255.1	13552.2	15210.0	16221.6	15731.9	15426.8	15398.7
25°	12512.5	12492.4	12396.0	12472.3	12472.3	12568.7	13865.3	14162.3	13893.4	13861.3
27.5°	11773.8	11737.7	11721.7	11757.8	11573.1	10922.8	11252.0	12701.1	12560.6	12568.7
30°	10975.0	10963.0	10918.8	10995.1	10425.0	9618.2	9409.4	11376.4	11404.5	11396.5
32.5°	9786.8	9839.0	10039.7	10124.0	9184.6	8518.3	8169.0	9843.0	10417.0	10405.0
35°	7109.3	7109.3	7763.6	8979.9	8048.6	7546.8	7358.1	8345.7	9441.5	9481.7
37.5°	5844.8	5864.8	5993.3	6547.3	6944.7	6768.0	6711.8	7025.0	8189.1	8253.3
40°	5258.7	5258.7	5258.7	5029.9	5017.8	6097.7	6065.6	5965.2	7073.1	7213.6
42.5°	4724.8	4736.8	4744.9	4166.8	3845.7	5270.7	5198.5	5045.9	6073.6	6238.2
45°	4174.8	4194.9	4219.0	3484.4	3343.9	3793.5	4399.6	4231.0	5086.1	5298.8
47.5°	2549.1	2581.2	3127.1	2954.5	2970.6	2926.4	3588.8	3560.7	4170.8	4471.9
50°	1722.1	1734.2	1786.3	1874.7	2549.1	2300.2	2541.0	2946.5	3167.3	3624.9
52.5°	1445.1	1465.2	1336.8	1216.3	1673.9	1798.4	1774.3	2187.8	2276.1	2842.1
55°	1015.6	1079.8	1019.6	1007.6	951.4	1397.0	1344.8	1682.0	1738.2	2159.7
57.5°	104.4	120.4	208.7	750.7	622.2	790.8	959.4	1232.4	1288.6	1593.7
60°	8.0	8.0	20.1	104.4	453.6	473.7	662.4	758.7	867.1	1112.0
62.5°	0.0	4.0	8.0	16.1	72.3	252.9	333.2	397.4	521.9	718.6
65°	0.0	0.0	4.0	12.0	16.1	96.3	128.5	208.7	285.0	445.6
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	44.2	76.3	152.5	252.9
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.2	68.2	136.5
72.5°	0.0	0.0	4.0	4.0	8.0	20.1	24.1	32.1	48.2	68.2
75°	0.0	0.0	4.0	4.0	12.0	24.1	20.1	24.1	32.1	44.2
77.5°	0.0	0.0	4.0	8.0	12.0	24.1	20.1	24.1	24.1	28.1
80°	0.0	0.0	4.0	8.0	16.1	28.1	24.1	24.1	20.1	20.1
82.5°	0.0	0.0	4.0	12.0	16.1	36.1	36.1	32.1	16.1	12.0
85°	0.0	0.0	8.0	16.1	24.1	40.1	40.1	32.1	12.0	8.0
87.5°	0.0	0.0	8.0	12.0	20.1	28.1	40.1	32.1	12.0	4.0
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°
21693.1	0°	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1	21693.1
21624.8	2.5°	21733.2	21709.1	21789.4	21821.5	21865.7	21697.1	21592.7	21596.7	21404.1
21380.0	5°	21508.4	21512.4	21616.8	21608.8	21652.9	21560.6	21520.5	21452.2	21283.6
21070.9	7.5°	21223.4	21187.3	21287.6	21363.9	21251.5	21315.7	21223.4	21255.5	21155.2
20797.9	10°	21002.6	20918.3	21010.7	21062.8	21066.9	21002.6	20914.3	20830.0	20793.9
20372.4	12.5°	20512.9	20404.5	20561.1	20633.3	20621.3	20496.8	20396.5	20416.5	20300.1
19625.7	15°	19838.5	19842.5	19954.9	20023.2	19958.9	19930.8	19938.9	19890.7	19790.3
18594.1	17.5°	18806.8	18867.0	19164.1	19328.7	19364.8	19308.6	19280.5	19224.3	19124.0
16948.2	20°	17088.7	17450.0	17979.9	18489.7	18590.1	18574.0	18473.6	18449.6	18393.4
15318.4	22.5°	15579.4	15848.3	16462.5	17257.3	17666.8	17706.9	17586.5	17550.4	17490.1
13861.3	25°	14017.8	14306.8	14860.8	15723.9	16570.9	16743.5	16723.4	16615.0	16550.8
12568.7	27.5°	12701.1	12990.2	13491.9	14270.7	15177.9	15731.9	15784.1	15611.5	15607.5
11416.6	30°	11512.9	11910.3	12291.7	12925.9	13805.1	14636.0	14724.3	14603.9	14615.9
10360.8	32.5°	10581.6	10910.8	11235.9	11661.4	12392.0	13359.5	13704.7	13592.3	13548.1
9481.7	35°	9630.2	9855.0	10188.2	10577.6	11075.4	12034.8	12632.9	12548.6	12504.4
8293.5	37.5°	8546.4	8931.7	9172.6	9610.1	9999.5	10762.2	11605.2	11593.2	11500.9
7281.9	40°	7434.4	7839.9	8205.2	8646.7	8947.8	9553.9	10489.3	10485.3	10497.3
6234.2	42.5°	6426.8	6800.2	7241.7	7723.4	8012.5	8454.0	9457.6	9513.8	9582.0
5371.1	45°	5515.6	5852.8	6262.3	6848.3	7197.6	7450.5	8341.6	8598.6	8594.5
4600.3	47.5°	4696.7	5013.8	5359.0	5929.1	6374.7	6603.5	7342.1	7707.4	7683.3
3773.4	50°	3942.0	4223.0	4584.3	4997.8	5595.9	5796.6	6346.6	6828.3	6792.1
3006.7	52.5°	3171.3	3560.7	3865.7	4243.1	4873.3	5070.0	5495.5	5965.2	5937.1
2256.0	55°	2472.8	2850.1	3219.4	3544.6	4074.5	4367.5	4672.6	5154.3	5146.3
1766.3	57.5°	1870.6	2284.1	2633.4	2942.5	3364.0	3725.2	3970.1	4407.7	4463.9
1208.3	60°	1384.9	1702.0	2079.4	2424.6	2757.8	3131.1	3295.7	3725.2	3749.3
826.9	62.5°	943.4	1292.6	1661.9	1975.0	2223.9	2609.3	2757.8	3111.1	3155.2
529.9	65°	654.3	879.1	1300.6	1525.4	1830.5	2159.7	2308.2	2589.2	2677.5
305.1	67.5°	433.5	626.2	1015.6	1220.3	1521.4	1746.2	1934.9	2163.7	2260.0
192.7	70°	236.8	461.6	726.6	963.4	1224.4	1441.1	1625.8	1810.4	1894.7
88.3	72.5°	160.6	309.1	505.8	762.7	987.5	1200.3	1364.8	1501.3	1505.3
52.2	75°	80.3	208.7	385.4	590.1	770.7	979.5	1128.0	1208.3	1112.0
32.1	77.5°	48.2	152.5	313.1	473.7	626.2	790.8	875.1	919.3	762.7
24.1	80°	28.1	108.4	244.9	377.3	433.5	582.1	662.4	674.4	509.8
16.1	82.5°	20.1	80.3	192.7	277.0	264.9	409.5	497.8	481.7	325.2
12.0	85°	12.0	56.2	120.4	172.6	160.6	269.0	289.0	297.1	188.7
8.0	87.5°	8.0	32.1	64.2	92.3	76.3	116.4	116.4	140.5	92.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21693.1  
*21155.2*  
21243.5  
20986.6  
20633.3  
20199.8  
19690.0  
19079.8  
18264.9  
17474.1  
16482.6  
15599.4  
14555.7  
13552.2  
12444.2  
11577.1  
10497.3  
9545.9  
8602.6  
7691.3  
6824.2  
5997.3  
5166.4  
4439.8  
3785.5  
3163.2  
2657.4  
2248.0  
1862.6  
1469.2  
1039.7  
734.6  
477.7  
301.1  
172.6  
80.3  
0.0

(END OF REPORT)