

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: P638181

Luminaire Tested: **IFLD-L-SA7D-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638181  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37520.1 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

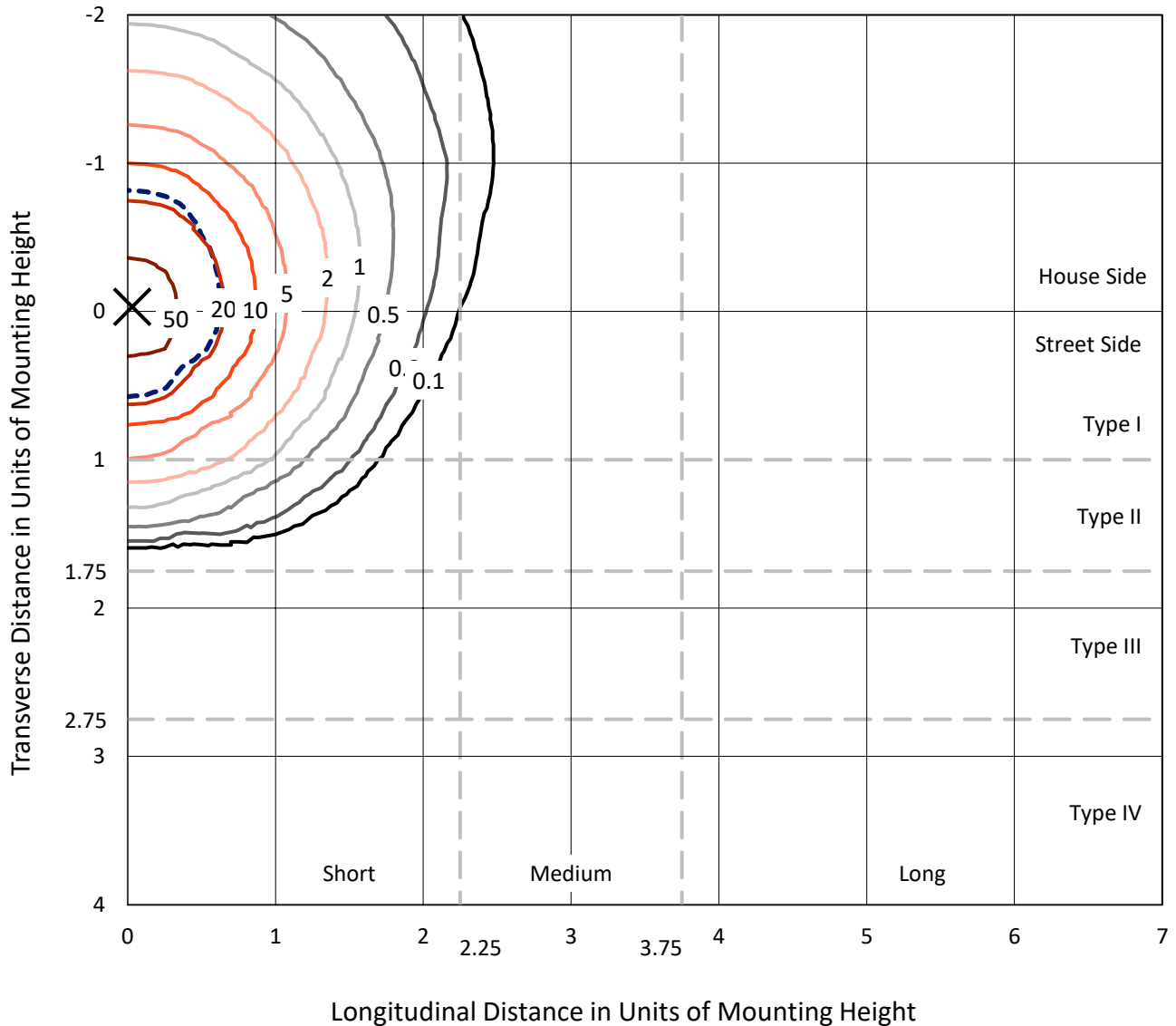
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

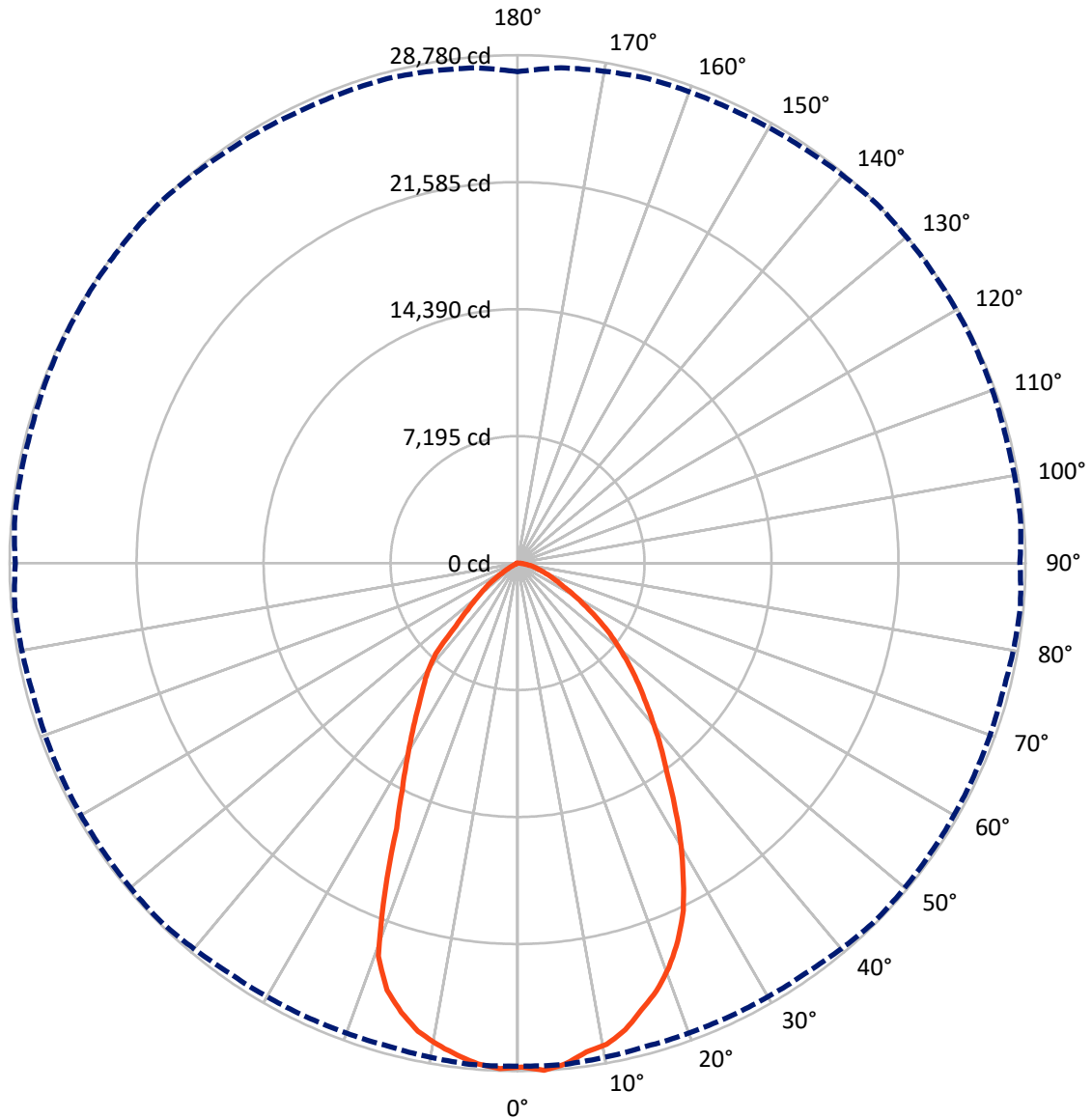
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.4 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	22221.3	0.0	22221.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	15298.8	0.0	15298.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	37520.1	0.0	37520.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2677.8	7.1
10°-20°	7180.7	19.1
20°-30°	8757.2	23.3
30°-40°	7995.2	21.3
40°-50°	5778.0	15.4
50°-60°	3154.8	8.4
60°-70°	1304.4	3.5
70°-80°	528.3	1.4
80°-90°	143.7	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°	37520.1	100.0
0°-180°	37520.1	100.0



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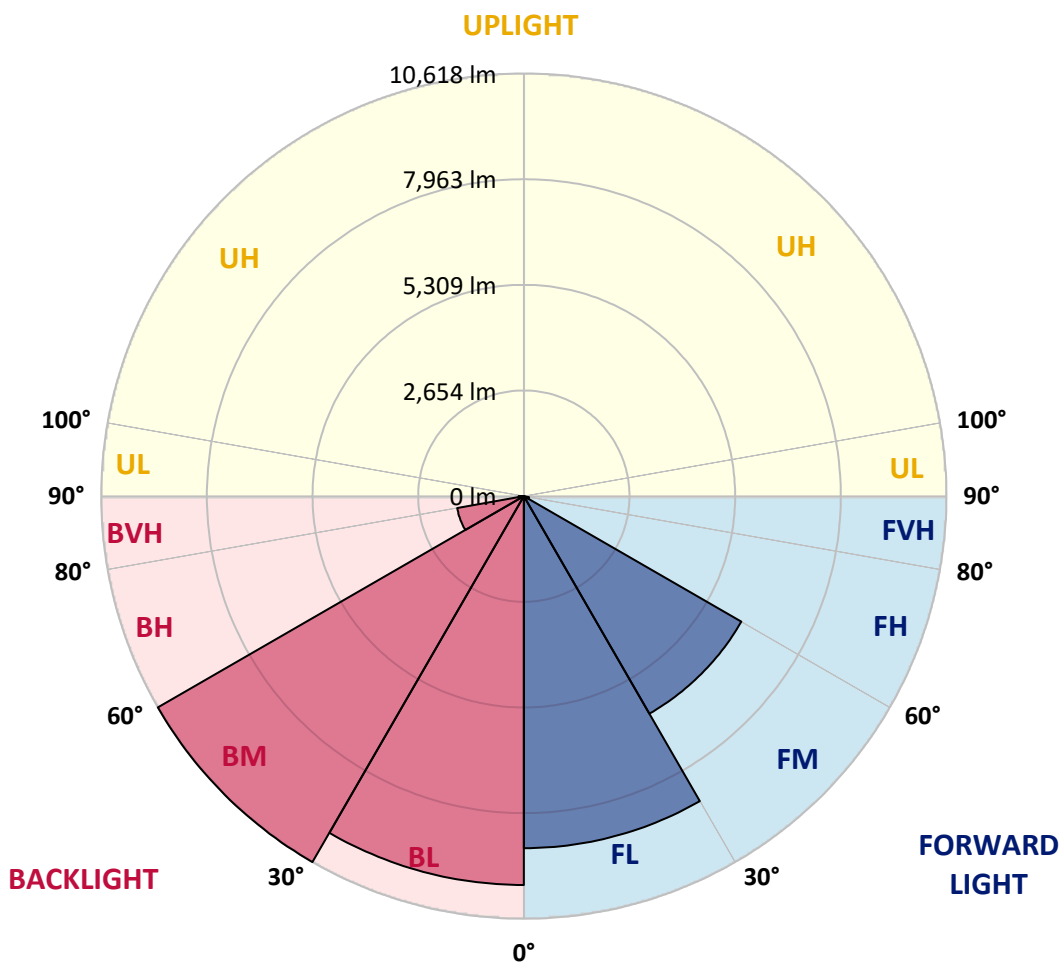
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8844.9	23.6			
FM (30°-60°)	6310.2	16.8			
FH (60°-80°)	132.2	0.4			G0/660
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	9770.8	26.0	B5		
BM (30°-60°)	10617.9	28.3	B5		
BH (60°-80°)	1700.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	132.2	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°	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7
2.5°	28499.8	28536.8	28336.0	28357.2	28394.2	28663.6	28594.9	28531.5	28441.7	28594.9
5°	28462.9	28484.0	28272.6	28198.7	28230.4	28473.4	28251.5	28251.5	28230.4	28204.0
7.5°	28177.5	28188.1	28024.3	27892.2	27976.8	28087.7	27923.9	28003.2	27886.9	27976.8
10°	27749.6	27680.9	27485.4	27448.4	27543.5	27649.2	27538.2	27612.2	27506.5	27575.2
12.5°	27120.8	27015.1	26856.6	26809.1	26972.9	27115.5	27025.7	26983.4	26846.1	27015.1
15°	24695.6	24616.4	24975.7	25604.4	26169.8	26291.3	26196.2	26238.5	25953.1	26000.7
17.5°	20326.1	20178.1	20563.8	22053.8	24177.8	25298.0	25213.4	24938.7	24516.0	24611.1
20°	18471.5	18429.3	18387.0	18741.0	20225.7	23623.1	23739.3	23041.9	22439.5	22307.4
22.5°	17425.4	17409.5	17367.3	17446.5	17837.5	20019.6	21351.1	20706.5	20304.9	20268.0
25°	16469.0	16442.6	16315.8	16416.2	16416.2	16543.0	18249.6	18640.6	18286.6	18244.3
27.5°	15496.9	15449.3	15428.2	15475.7	15232.7	14376.7	14810.0	16717.4	16532.4	16543.0
30°	14445.4	14429.6	14371.4	14471.8	13721.6	12659.6	12384.8	14973.8	15010.8	15000.2
32.5°	12881.5	12950.1	13214.3	13325.3	12088.9	11211.8	10752.2	12955.4	13711.0	13695.1
35°	9357.3	9357.3	10218.5	11819.5	10593.7	9933.2	9684.9	10984.6	12427.1	12479.9
37.5°	7692.9	7719.4	7888.4	8617.6	9140.7	8908.2	8834.2	9246.3	10778.6	10863.1
40°	6921.5	6921.5	6921.5	6620.4	6604.5	8025.8	7983.5	7851.5	9309.7	9494.7
42.5°	6218.8	6234.7	6245.2	5484.4	5061.7	6937.4	6842.3	6641.5	7994.1	8210.7
45°	5495.0	5521.4	5553.1	4586.2	4401.3	4993.0	5790.8	5568.9	6694.3	6974.4
47.5°	3355.1	3397.4	4115.9	3888.7	3909.9	3851.8	4723.6	4686.6	5489.7	5886.0
50°	2266.7	2282.5	2351.2	2467.5	3355.1	3027.5	3344.5	3878.2	4168.8	4771.1
52.5°	1902.1	1928.5	1759.4	1600.9	2203.3	2367.1	2335.4	2879.6	2995.8	3740.8
55°	1336.8	1421.3	1342.0	1326.2	1252.2	1838.7	1770.0	2213.8	2287.8	2842.6
57.5°	137.4	158.5	274.7	988.0	819.0	1040.9	1262.8	1622.1	1696.0	2097.6
60°	10.6	10.6	26.4	137.4	597.0	623.5	871.8	998.6	1141.3	1463.6
62.5°	0.0	5.3	10.6	21.1	95.1	332.9	438.5	523.1	686.9	945.8
65°	0.0	0.0	5.3	15.9	21.1	126.8	169.1	274.7	375.1	586.5
67.5°	0.0	0.0	5.3	10.6	15.9	31.7	58.1	100.4	200.8	332.9
70°	0.0	0.0	5.3	10.6	15.9	26.4	42.3	63.4	89.8	179.6
72.5°	0.0	0.0	5.3	5.3	10.6	26.4	31.7	42.3	63.4	89.8
75°	0.0	0.0	5.3	5.3	15.9	31.7	26.4	31.7	42.3	58.1
77.5°	0.0	0.0	5.3	10.6	15.9	31.7	26.4	31.7	31.7	37.0
80°	0.0	0.0	5.3	10.6	21.1	37.0	31.7	31.7	26.4	26.4
82.5°	0.0	0.0	5.3	15.9	21.1	47.6	47.6	42.3	21.1	15.9
85°	0.0	0.0	10.6	21.1	31.7	52.8	52.8	42.3	15.9	10.6
87.5°	0.0	0.0	10.6	15.9	26.4	37.0	52.8	42.3	15.9	5.3
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°
28552.7	0°	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7	28552.7
28462.9	2.5°	28605.5	28573.8	28679.5	28721.8	28779.9	28558.0	28420.6	28425.9	28172.3
28140.6	5°	28309.6	28314.9	28452.3	28441.7	28499.8	28378.3	28325.5	28235.7	28013.7
27733.7	7.5°	27934.5	27886.9	28019.0	28119.4	27971.5	28056.0	27934.5	27976.8	27844.7
27374.4	10°	27643.9	27532.9	27654.5	27723.1	27728.4	27643.9	27527.7	27416.7	27369.1
26814.4	12.5°	26999.3	26856.6	27062.7	27157.8	27142.0	26978.2	26846.1	26872.5	26719.3
25831.6	15°	26111.6	26116.9	26264.9	26354.7	26270.2	26233.2	26243.7	26180.3	26048.2
24473.7	17.5°	24753.8	24833.0	25224.0	25440.6	25488.2	25414.2	25377.2	25303.3	25171.2
22307.4	20°	22492.4	22967.9	23665.3	24336.3	24468.4	24447.3	24315.2	24283.5	24209.5
20162.3	22.5°	20505.7	20859.7	21668.1	22714.3	23253.2	23306.0	23147.5	23100.0	23020.7
18244.3	25°	18450.4	18830.8	19560.0	20695.9	21810.8	22038.0	22011.6	21868.9	21784.4
16543.0	27.5°	16717.4	17097.8	17758.2	18783.3	19977.4	20706.5	20775.2	20548.0	20542.7
15026.6	30°	15153.4	15676.5	16178.4	17013.3	18170.4	19264.1	19380.3	19221.8	19237.7
13637.0	32.5°	13927.6	14360.9	14788.8	15348.9	16310.5	17583.9	18038.3	17890.3	17832.2
12479.9	35°	12675.4	12971.3	13409.8	13922.3	14577.5	15840.3	16627.5	16516.6	16458.5
10916.0	37.5°	11248.8	11756.1	12073.1	12649.0	13161.5	14165.4	15274.9	15259.1	15137.6
9584.5	40°	9785.3	10318.9	10799.7	11380.9	11777.2	12575.0	13806.1	13800.8	13816.7
8205.5	42.5°	8459.1	8950.5	9531.6	10165.7	10546.1	11127.3	12448.2	12522.2	12612.0
7069.5	45°	7259.7	7703.5	8242.4	9013.9	9473.5	9806.4	10979.4	11317.5	11312.2
6055.0	47.5°	6181.8	6599.2	7053.6	7803.9	8390.4	8691.6	9663.7	10144.5	10112.8
4966.6	50°	5188.5	5558.4	6033.9	6578.1	7365.4	7629.5	8353.4	8987.4	8939.9
3957.4	52.5°	4174.1	4686.6	5088.1	5584.8	6414.3	6673.2	7233.3	7851.5	7814.5
2969.4	55°	3254.7	3751.4	4237.5	4665.4	5362.9	5748.6	6150.1	6784.2	6773.6
2324.8	57.5°	2462.2	3006.4	3466.1	3872.9	4427.7	4903.2	5225.5	5801.4	5875.4
1590.4	60°	1822.8	2240.3	2736.9	3191.3	3629.8	4121.2	4337.9	4903.2	4934.9
1088.4	62.5°	1241.7	1701.3	2187.4	2599.5	2927.1	3434.4	3629.8	4094.8	4152.9
697.4	65°	861.2	1157.1	1711.9	2007.8	2409.3	2842.6	3038.1	3407.9	3524.2
401.6	67.5°	570.6	824.2	1336.8	1606.2	2002.5	2298.4	2546.7	2847.9	2974.7
253.6	70°	311.7	607.6	956.3	1268.1	1611.5	1896.8	2139.9	2382.9	2493.9
116.2	72.5°	211.3	406.8	665.7	1003.9	1299.8	1579.8	1796.4	1976.1	1981.4
68.7	75°	105.7	274.7	507.2	776.7	1014.5	1289.2	1484.7	1590.4	1463.6
42.3	77.5°	63.4	200.8	412.1	623.5	824.2	1040.9	1151.8	1209.9	1003.9
31.7	80°	37.0	142.7	322.3	496.7	570.6	766.1	871.8	887.6	671.0
21.1	82.5°	26.4	105.7	253.6	364.6	348.7	538.9	655.2	634.0	428.0
15.9	85°	15.9	74.0	158.5	227.2	211.3	354.0	380.4	391.0	248.3
10.6	87.5°	10.6	42.3	84.5	121.5	100.4	153.2	153.2	184.9	121.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
28552.7  
27844.7  
27960.9  
27622.8  
27157.8  
26587.2  
25916.2  
25113.0  
24040.5  
22999.6  
21694.5  
20532.1  
19158.4  
17837.5  
16379.2  
15238.0  
13816.7  
12564.4  
11322.8  
10123.4  
8982.2  
7893.7  
6800.0  
5843.7  
4982.5  
4163.5  
3497.8  
2958.8  
2451.6  
1933.8  
1368.5  
966.9  
628.8  
396.3  
227.2  
105.7  
0.0

(END OF REPORT)