

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: P638177

Luminaire Tested: **IFLD-M-SA4E-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638177  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27848 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

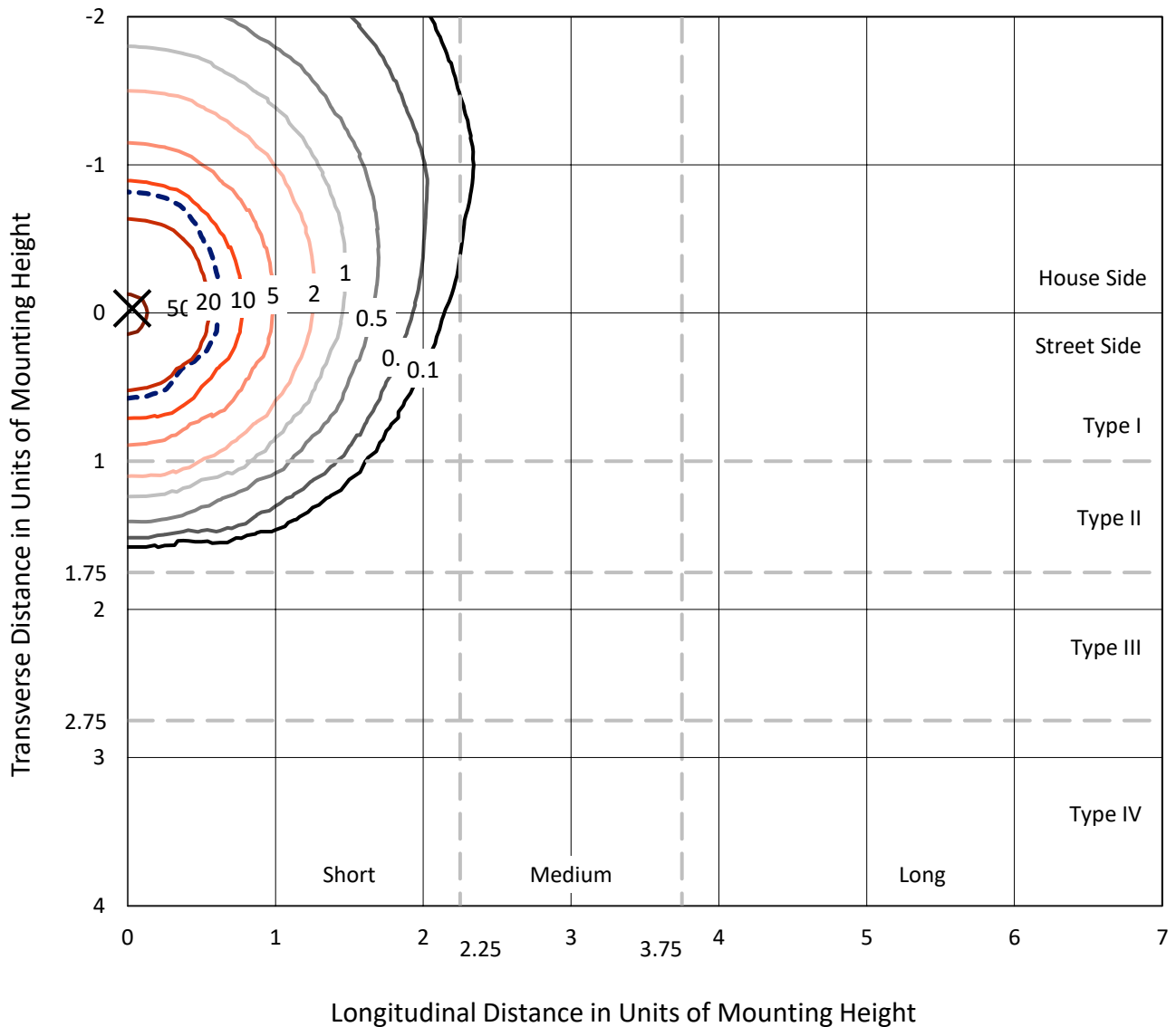
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

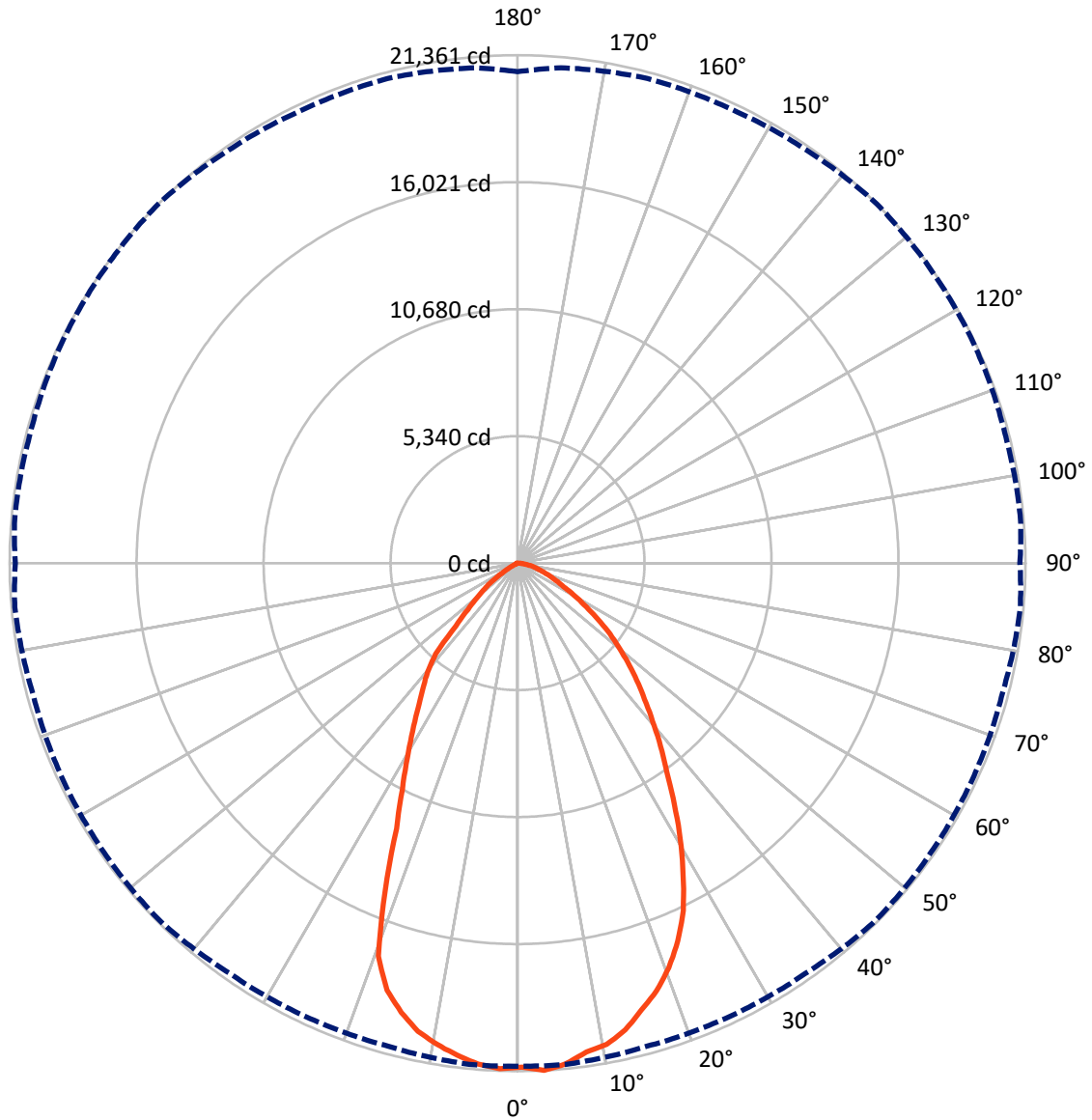
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53 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	16493.0	0.0	16493.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11355.0	0.0	11355.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27848.0	0.0	27848.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1987.5	7.1
10°-20°	5329.6	19.1
20°-30°	6499.7	23.3
30°-40°	5934.2	21.3
40°-50°	4288.5	15.4
50°-60°	2341.6	8.4
60°-70°	968.2	3.5
70°-80°	392.1	1.4
80°-90°	106.7	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°	27848.0	100.0
0°-180°	27848.0	100.0



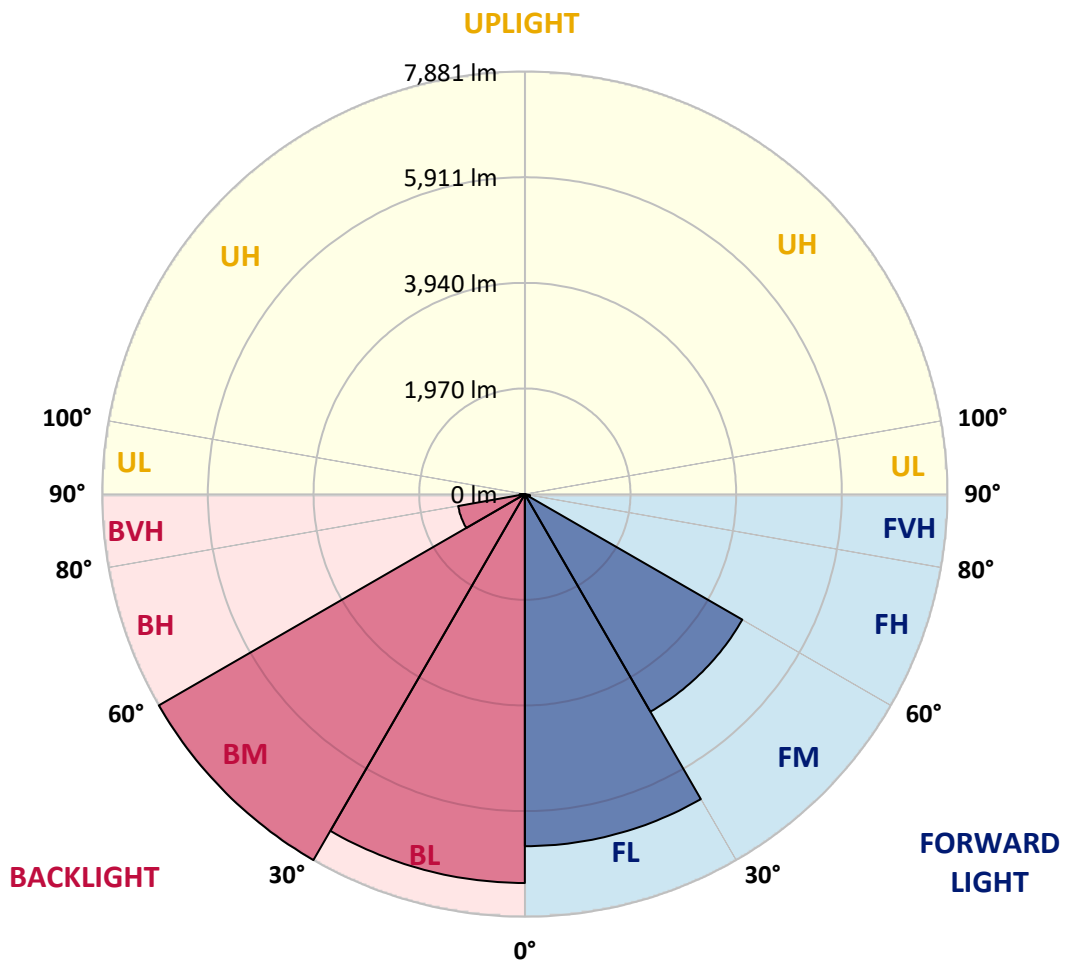
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6564.8	23.6			
FM (30°-60°)	4683.5	16.8			
FH (60°-80°)	98.1	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	7252.0	26.0	B5		
BM (30°-60°)	7880.7	28.3	B4/8500		
BH (60°-80°)	1262.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2
2.5°	21153.0	21180.5	21031.5	21047.1	21074.6	21274.6	21223.6	21176.6	21109.9	21223.6
5°	21125.6	21141.3	20984.4	20929.5	20953.0	21133.4	20968.7	20968.7	20953.0	20933.4
7.5°	20913.8	20921.7	20800.1	20702.0	20764.8	20847.1	20725.6	20784.4	20698.1	20764.8
10°	20596.2	20545.2	20400.1	20372.6	20443.2	20521.7	20439.3	20494.2	20415.8	20466.7
12.5°	20129.5	20051.1	19933.4	19898.1	20019.7	20125.6	20058.9	20027.5	19925.6	20051.1
15°	18329.5	18270.7	18537.3	19004.0	19423.6	19513.8	19443.2	19474.6	19262.8	19298.1
17.5°	15086.3	14976.5	15262.8	16368.7	17945.2	18776.5	18713.8	18509.9	18196.2	18266.7
20°	13709.9	13678.5	13647.1	13909.9	15011.8	17533.4	17619.7	17102.0	16655.0	16556.9
22.5°	12933.4	12921.6	12890.2	12949.1	13239.3	14858.9	15847.1	15368.7	15070.6	15043.2
25°	12223.6	12204.0	12109.9	12184.4	12184.4	12278.5	13545.2	13835.4	13572.6	13541.2
27.5°	11502.0	11466.7	11451.0	11486.3	11305.9	10670.6	10992.2	12407.9	12270.6	12278.5
30°	10721.6	10709.8	10666.7	10741.2	10184.4	9396.1	9192.2	11113.8	11141.2	11133.4
32.5°	9560.8	9611.8	9807.9	9890.2	8972.6	8321.6	7980.4	9615.7	10176.5	10164.7
35°	6945.1	6945.1	7584.3	8772.6	7862.8	7372.6	7188.3	8153.0	9223.6	9262.8
37.5°	5709.8	5729.4	5854.9	6396.1	6784.3	6611.8	6556.9	6862.8	8000.0	8062.8
40°	5137.3	5137.3	5137.3	4913.7	4902.0	5956.9	5925.5	5827.5	6909.8	7047.1
42.5°	4615.7	4627.5	4635.3	4070.6	3756.9	5149.0	5078.5	4929.4	5933.4	6094.1
45°	4078.4	4098.1	4121.6	3403.9	3266.7	3705.9	4298.1	4133.4	4968.6	5176.5
47.5°	2490.2	2521.6	3054.9	2886.3	2902.0	2858.8	3505.9	3478.4	4074.5	4368.6
50°	1682.4	1694.1	1745.1	1831.4	2490.2	2247.1	2482.4	2878.4	3094.1	3541.2
52.5°	1411.8	1431.4	1305.9	1188.2	1635.3	1756.9	1733.3	2137.3	2223.5	2776.5
55°	992.2	1054.9	996.1	984.3	929.4	1364.7	1313.7	1643.1	1698.0	2109.8
57.5°	102.0	117.6	203.9	733.3	607.8	772.6	937.3	1203.9	1258.8	1556.9
60°	7.8	7.8	19.6	102.0	443.1	462.7	647.1	741.2	847.1	1086.3
62.5°	0.0	3.9	7.8	15.7	70.6	247.1	325.5	388.2	509.8	702.0
65°	0.0	0.0	3.9	11.8	15.7	94.1	125.5	203.9	278.4	435.3
67.5°	0.0	0.0	3.9	7.8	11.8	23.5	43.1	74.5	149.0	247.1
70°	0.0	0.0	3.9	7.8	11.8	19.6	31.4	47.1	66.7	133.3
72.5°	0.0	0.0	3.9	3.9	7.8	19.6	23.5	31.4	47.1	66.7
75°	0.0	0.0	3.9	3.9	11.8	23.5	19.6	23.5	31.4	43.1
77.5°	0.0	0.0	3.9	7.8	11.8	23.5	19.6	23.5	23.5	27.5
80°	0.0	0.0	3.9	7.8	15.7	27.5	23.5	23.5	19.6	19.6
82.5°	0.0	0.0	3.9	11.8	15.7	35.3	35.3	31.4	15.7	11.8
85°	0.0	0.0	7.8	15.7	23.5	39.2	39.2	31.4	11.8	7.8
87.5°	0.0	0.0	7.8	11.8	19.6	27.5	39.2	31.4	11.8	3.9
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°
21192.2	0°	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2	21192.2
21125.6	2.5°	21231.5	21207.9	21286.4	21317.7	21360.9	21196.2	21094.2	21098.1	20909.9
20886.4	5°	21011.9	21015.8	21117.7	21109.9	21153.0	21062.8	21023.6	20956.9	20792.2
20584.4	7.5°	20733.4	20698.1	20796.2	20870.7	20760.9	20823.6	20733.4	20764.8	20666.8
20317.7	10°	20517.7	20435.4	20525.6	20576.6	20580.5	20517.7	20431.5	20349.1	20313.8
19902.0	12.5°	20039.3	19933.4	20086.4	20156.9	20145.2	20023.6	19925.6	19945.2	19831.5
19172.6	15°	19380.5	19384.4	19494.2	19560.9	19498.1	19470.7	19478.5	19431.5	19333.4
18164.8	17.5°	18372.6	18431.4	18721.6	18882.4	18917.7	18862.8	18835.4	18780.5	18682.4
16556.9	20°	16694.2	17047.1	17564.8	18062.8	18160.9	18145.2	18047.1	18023.6	17968.7
14964.8	22.5°	15219.7	15482.4	16082.4	16858.9	17258.9	17298.1	17180.5	17145.2	17086.3
13541.2	25°	13694.2	13976.5	14517.7	15360.8	16188.3	16356.9	16337.3	16231.4	16168.7
12278.5	27.5°	12407.9	12690.2	13180.4	13941.2	14827.5	15368.7	15419.7	15251.0	15247.1
11153.0	30°	11247.1	11635.3	12007.9	12627.5	13486.3	14298.1	14384.4	14266.7	14278.5
10121.6	32.5°	10337.3	10658.9	10976.5	11392.2	12105.9	13051.0	13388.3	13278.5	13235.3
9262.8	35°	9407.9	9627.5	9953.0	10333.4	10819.7	11756.9	12341.2	12258.9	12215.7
8102.0	37.5°	8349.1	8725.5	8960.8	9388.3	9768.7	10513.8	11337.3	11325.5	11235.3
7113.8	40°	7262.8	7658.9	8015.7	8447.1	8741.2	9333.4	10247.1	10243.2	10254.9
6090.2	42.5°	6278.5	6643.2	7074.5	7545.1	7827.5	8258.9	9239.3	9294.2	9360.8
5247.1	45°	5388.3	5717.7	6117.7	6690.2	7031.4	7278.5	8149.1	8400.0	8396.1
4494.1	47.5°	4588.3	4898.1	5235.3	5792.2	6227.5	6451.0	7172.6	7529.4	7505.9
3686.3	50°	3851.0	4125.5	4478.4	4882.4	5466.7	5662.8	6200.0	6670.6	6635.3
2937.3	52.5°	3098.1	3478.4	3776.5	4145.1	4760.8	4953.0	5368.6	5827.5	5800.0
2203.9	55°	2415.7	2784.3	3145.1	3462.8	3980.4	4266.7	4564.7	5035.3	5027.5
1725.5	57.5°	1827.5	2231.4	2572.6	2874.5	3286.3	3639.2	3878.4	4305.9	4360.8
1180.4	60°	1352.9	1662.8	2031.4	2368.6	2694.1	3058.8	3219.6	3639.2	3662.8
807.8	62.5°	921.6	1262.8	1623.5	1929.4	2172.6	2549.0	2694.1	3039.2	3082.4
517.6	65°	639.2	858.8	1270.6	1490.2	1788.2	2109.8	2254.9	2529.4	2615.7
298.0	67.5°	423.5	611.8	992.2	1192.2	1486.3	1705.9	1890.2	2113.7	2207.9
188.2	70°	231.4	451.0	709.8	941.2	1196.1	1407.8	1588.2	1768.6	1851.0
86.3	72.5°	156.9	302.0	494.1	745.1	964.7	1172.6	1333.3	1466.7	1470.6
51.0	75°	78.4	203.9	376.5	576.5	752.9	956.9	1102.0	1180.4	1086.3
31.4	77.5°	47.1	149.0	305.9	462.7	611.8	772.6	854.9	898.0	745.1
23.5	80°	27.5	105.9	239.2	368.6	423.5	568.6	647.1	658.8	498.0
15.7	82.5°	19.6	78.4	188.2	270.6	258.8	400.0	486.3	470.6	317.6
11.8	85°	11.8	54.9	117.6	168.6	156.9	262.7	282.4	290.2	184.3
7.8	87.5°	7.8	31.4	62.7	90.2	74.5	113.7	113.7	137.3	90.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21192.2  
20666.8  
20753.0  
20502.0  
20156.9  
19733.4  
19235.4  
18639.3  
17843.2  
17070.7  
16102.0  
15239.3  
14219.7  
13239.3  
12156.9  
11309.8  
10254.9  
9325.5  
8404.0  
7513.8  
6666.7  
5858.8  
5047.1  
4337.3  
3698.1  
3090.2  
2596.1  
2196.1  
1819.6  
1435.3  
1015.7  
717.6  
466.7  
294.1  
168.6  
78.4  
0.0

(END OF REPORT)