

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: P637887

Luminaire Tested: **IFLD-M-SA4E-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637887
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30109.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

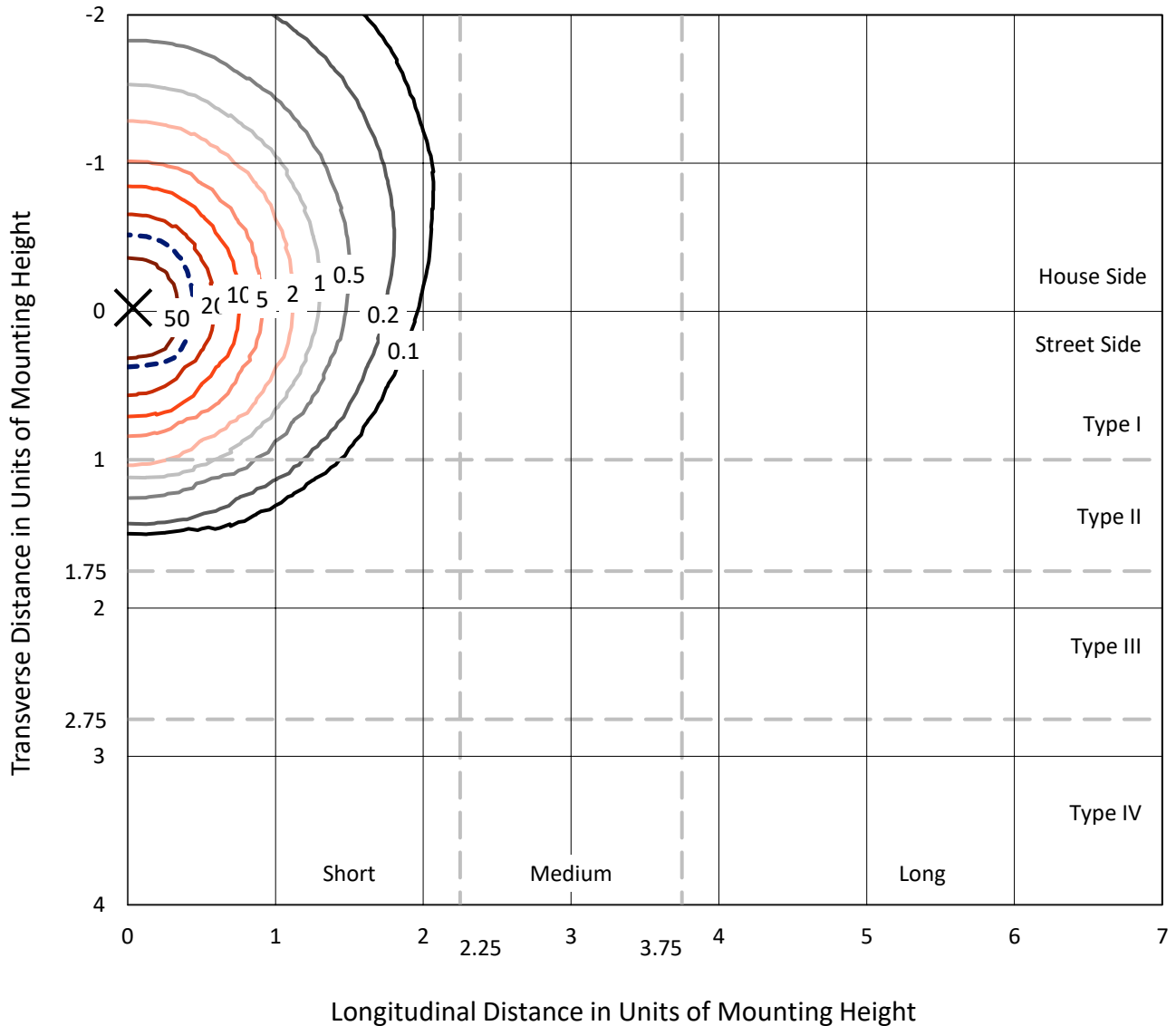
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

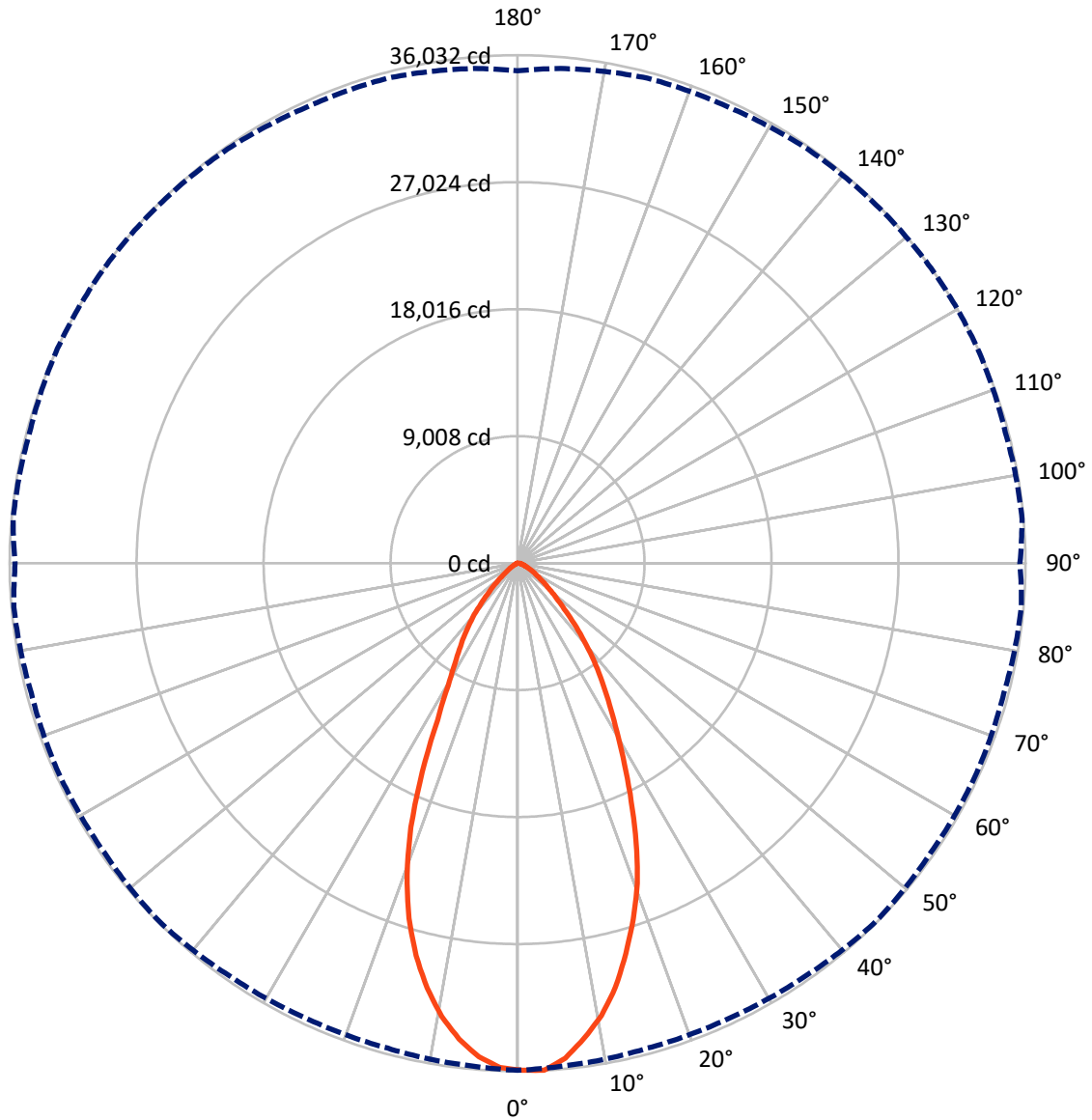
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 89.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17085.6	0.0	17085.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13024.3	0.0	13024.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	30109.9	0.0	30109.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3266.6	10.8
10°-20°	7786.8	25.9
20°-30°	7930.7	26.3
30°-40°	5913.9	19.6
40°-50°	3089.6	10.3
50°-60°	1299.5	4.3
60°-70°	530.7	1.8
70°-80°	223.3	0.7
80°-90°	68.8	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°	30109.9	100.0
0°-180°	30109.9	100.0



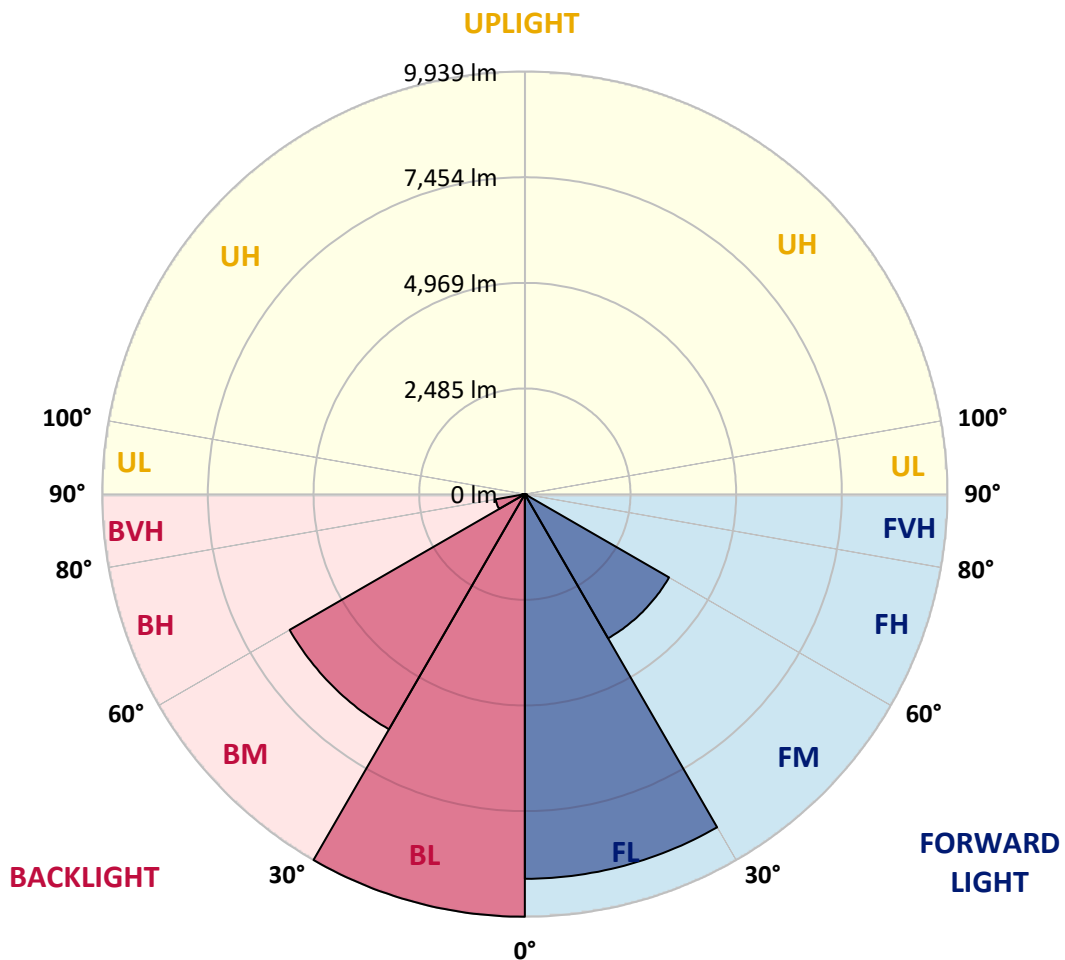
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9045.4	30.0			
FM (30°-60°)	3915.9	13.0			
FH (60°-80°)	56.7	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	9938.7	33.0	B5		
BM (30°-60°)	6387.1	21.2	B4/8500		
BH (60°-80°)	697.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	62.4	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1
2.5°	35977.9	35831.0	35622.1	35602.8	35711.1	35947.0	35796.1	35803.9	35711.1	35869.6
5°	35413.2	35274.0	35130.9	34941.4	35099.9	35200.5	35123.2	35038.1	34918.2	35072.9
7.5°	34345.7	34268.4	34055.7	33970.6	34067.3	34179.4	34013.1	33989.9	33823.6	34024.7
10°	32713.5	32682.6	32473.7	32423.5	32508.5	32678.7	32605.2	32589.8	32485.3	32466.0
12.5°	31019.5	30899.6	30640.4	30624.9	30752.6	31007.9	30810.6	30621.1	30679.1	30729.4
15°	26656.6	26529.0	27171.0	28180.5	28710.4	28691.1	28749.1	28520.9	28451.3	28474.5
17.5°	21191.5	20974.9	21206.9	22769.5	25287.4	26749.4	26347.2	25856.0	25593.0	25418.9
20°	18290.7	18302.3	18259.7	18662.0	20232.3	23566.3	23469.6	22522.0	22177.8	22034.6
22.5°	16527.0	16461.2	16368.4	16496.0	16917.6	18874.7	20185.9	19315.6	19195.7	19037.1
25°	14798.1	14798.1	14685.9	14813.5	14933.4	14960.5	16275.5	16631.4	16399.3	16399.3
27.5°	13301.2	13223.9	13173.6	13231.6	13073.0	12311.1	12477.4	14299.1	14140.5	14043.8
30°	11816.0	11792.8	11707.7	11785.1	11197.2	10338.5	9990.4	12067.4	12233.7	12198.9
32.5°	9754.5	9847.3	10226.4	10346.3	9340.6	8648.3	8315.7	10017.5	10682.8	10655.7
35°	6629.3	6706.7	7139.9	8571.0	7743.3	7248.2	7151.5	7967.6	9062.2	9166.6
37.5°	5279.5	5267.9	5391.7	5646.9	6223.2	6103.3	6076.3	6289.0	7391.3	7437.7
40°	4351.2	4335.8	4331.9	4123.0	3979.9	5074.5	5001.0	4873.4	5828.7	5921.5
42.5°	3508.1	3523.5	3535.1	3078.7	2869.9	3914.2	3871.6	3740.1	4571.7	4680.0
45°	2753.8	2750.0	2773.2	2293.6	2235.6	2502.4	2893.1	2788.7	3450.0	3566.1
47.5°	1427.2	1477.5	1790.8	1775.3	1802.4	1775.3	2189.2	2162.1	2595.3	2780.9
50°	959.2	974.7	1001.8	1005.6	1419.5	1307.3	1485.2	1682.5	1817.8	2104.1
52.5°	742.6	754.2	684.6	642.0	870.2	966.9	974.7	1164.2	1268.6	1558.7
55°	413.9	464.1	498.9	502.8	479.6	715.5	711.7	862.5	943.7	1137.1
57.5°	54.1	65.8	100.6	324.9	321.0	398.4	498.9	626.6	673.0	831.6
60°	3.9	7.7	11.6	50.3	212.7	232.1	340.4	390.6	468.0	584.0
62.5°	0.0	0.0	3.9	11.6	42.5	135.4	177.9	205.0	274.6	382.9
65°	0.0	0.0	3.9	7.7	15.5	50.3	69.6	112.2	162.4	235.9
67.5°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	50.3	85.1	143.1
70°	0.0	0.0	3.9	7.7	11.6	15.5	23.2	30.9	46.4	77.4
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	19.3	23.2	30.9	42.5
75°	0.0	0.0	3.9	7.7	11.6	19.3	19.3	19.3	23.2	27.1
77.5°	0.0	0.0	3.9	7.7	11.6	19.3	15.5	19.3	19.3	19.3
80°	0.0	0.0	3.9	7.7	11.6	19.3	23.2	19.3	15.5	15.5
82.5°	0.0	0.0	3.9	11.6	11.6	27.1	27.1	27.1	11.6	11.6
85°	0.0	0.0	7.7	11.6	19.3	30.9	30.9	23.2	11.6	7.7
87.5°	0.0	0.0	3.9	7.7	7.7	15.5	23.2	19.3	7.7	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°
35974.1	0°	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1	35974.1
35637.6	2.5°	35923.8	35827.1	36008.9	36032.1	35954.7	35858.0	35633.7	35614.4	35223.7
34848.5	5°	35243.1	35084.5	35200.5	35277.9	35250.8	35146.4	35053.5	34968.4	34616.5
33568.3	7.5°	33974.4	33916.4	33970.6	34028.6	34140.7	34028.6	33989.9	33900.9	33552.8
32307.4	10°	32566.6	32458.3	32663.3	32636.2	32605.2	32574.3	32411.9	32427.3	32017.3
30590.1	12.5°	30837.7	30655.9	30853.1	30876.4	30853.1	30744.8	30563.1	30640.4	30265.2
28269.5	15°	28513.1	28493.8	28636.9	28729.7	28795.5	28679.5	28617.6	28656.3	28431.9
25283.6	17.5°	25658.7	25910.1	26378.1	26536.7	26540.6	26660.5	26625.7	26579.3	26413.0
21976.6	20°	22301.5	22785.0	23504.4	24243.1	24455.9	24355.3	24308.9	24394.0	24146.4
18870.8	22.5°	19203.4	19617.3	20452.7	21531.8	22154.5	22216.4	22204.8	22131.3	22034.6
16383.8	25°	16573.4	16940.8	17741.4	18727.7	19922.8	20100.8	20108.5	20085.3	20000.2
14128.9	27.5°	14353.3	14798.1	15239.0	16120.8	17393.3	18128.2	18035.4	18008.3	17977.4
12226.0	30°	12342.0	12902.9	13316.7	13865.9	15006.9	16000.9	16097.6	16051.2	15977.7
10651.8	32.5°	10748.5	11081.1	11607.2	11978.5	12798.4	13923.9	14295.3	14260.4	14194.7
9232.4	35°	9363.9	9495.4	9909.2	10323.1	10868.4	11959.1	12508.3	12431.0	12419.4
7522.8	37.5°	7712.3	8153.2	8381.4	8799.2	9182.1	10029.1	10787.2	10752.4	10756.2
6049.2	40°	6227.1	6482.4	6934.9	7286.9	7638.8	8257.7	9100.8	9124.1	9116.3
4683.9	42.5°	4780.6	5028.1	5503.8	5886.7	6200.0	6582.9	7387.4	7414.5	7449.3
3647.3	45°	3732.4	3891.0	4239.1	4637.4	4970.1	5202.1	5813.2	5987.3	5991.2
2827.3	47.5°	2897.0	3078.7	3326.3	3709.2	4034.1	4200.4	4645.2	4881.1	4869.5
2169.8	50°	2274.2	2440.6	2641.7	2943.4	3295.3	3426.8	3755.6	3987.7	3976.1
1636.1	52.5°	1740.5	1953.2	2131.1	2363.2	2707.4	2819.6	3055.5	3322.4	3283.7
1199.0	55°	1318.9	1535.5	1701.8	1895.2	2208.5	2351.6	2514.0	2726.8	2734.5
928.3	57.5°	994.0	1218.3	1369.2	1566.4	1802.4	1961.0	2084.7	2312.9	2309.1
634.3	60°	711.7	905.1	1086.8	1291.8	1473.6	1655.4	1740.5	1957.1	1964.8
448.7	62.5°	514.4	696.2	870.2	1048.2	1210.6	1388.5	1465.9	1636.1	1659.3
293.9	65°	359.7	487.3	688.5	823.8	1005.6	1137.1	1237.7	1384.7	1411.7
174.0	67.5°	232.1	352.0	545.4	665.3	831.6	943.7	1048.2	1164.2	1199.0
112.2	70°	139.2	266.9	406.1	533.8	684.6	785.2	885.7	986.3	1005.6
54.1	72.5°	89.0	185.7	293.9	433.2	549.2	657.5	746.5	820.0	761.9
34.8	75°	50.3	127.6	232.1	340.4	444.8	549.2	622.7	661.4	529.9
23.2	77.5°	30.9	92.8	189.5	274.6	344.2	440.9	487.3	510.5	379.0
15.5	80°	19.3	69.6	158.6	224.3	224.3	324.9	379.0	398.4	274.6
11.6	82.5°	15.5	50.3	123.8	170.2	150.8	243.7	297.8	301.7	193.4
7.7	85°	11.6	38.7	77.4	112.2	104.4	170.2	174.0	193.4	127.6
7.7	87.5°	7.7	23.2	46.4	65.8	58.0	81.2	92.8	104.4	69.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35974.1
34918.2
34334.1
33479.4
31878.1
30156.9
28161.2
26165.4
23968.5
21849.0
19714.0
17795.6
15884.9
14020.6
12291.8
10632.5
8980.9
7333.3
5890.6
4827.0
3976.1
3287.6
2734.5
2301.3
1945.5
1651.5
1404.0
1195.1
990.1
707.8
502.8
355.8
255.3
177.9
116.0
61.9
0.0

(END OF REPORT)