

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: P637945

Luminaire Tested: **IFLD-M-SA4E-750-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637945  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31227.2 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

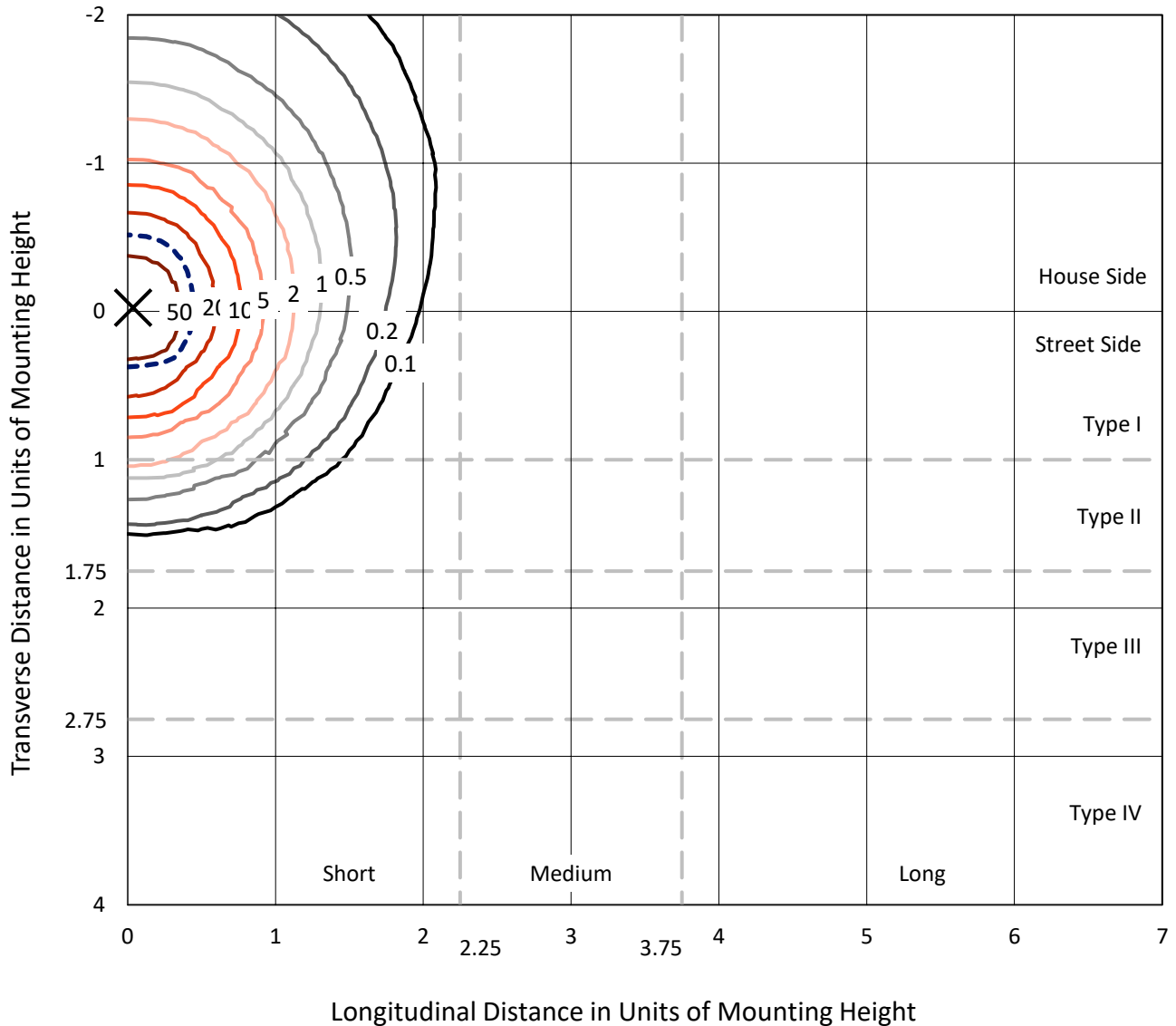
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

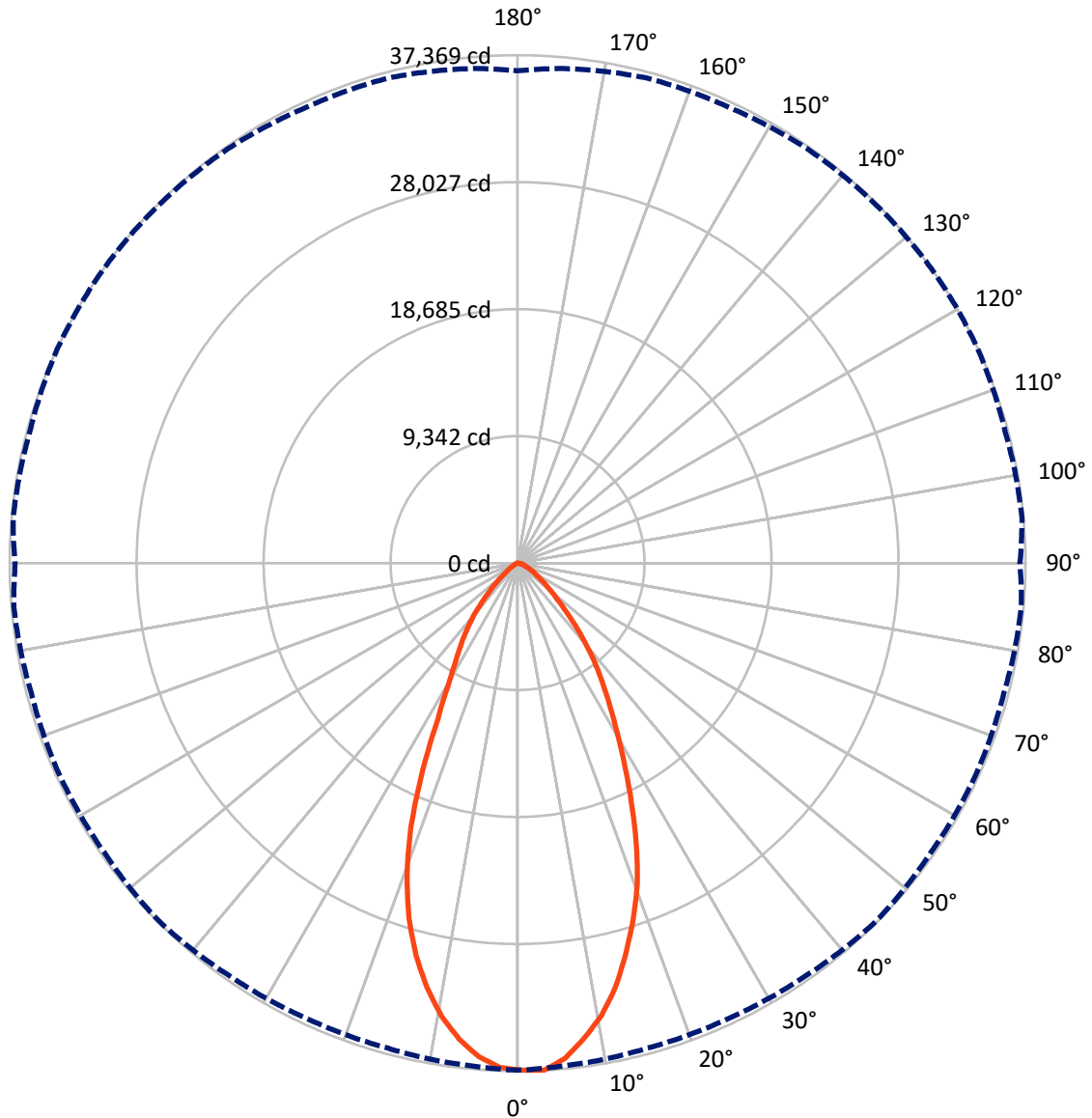
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 93.3 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
<b>House Side</b>	Lumens	17719.6	0.0	17719.6
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	13507.7	0.0	13507.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	31227.2	0.0	31227.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3387.8	10.8
10°-20°	8075.8	25.9
20°-30°	8225.0	26.3
30°-40°	6133.4	19.6
40°-50°	3204.2	10.3
50°-60°	1347.7	4.3
60°-70°	550.4	1.8
70°-80°	231.6	0.7
80°-90°	71.4	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°	31227.2	100.0
0°-180°	31227.2	100.0



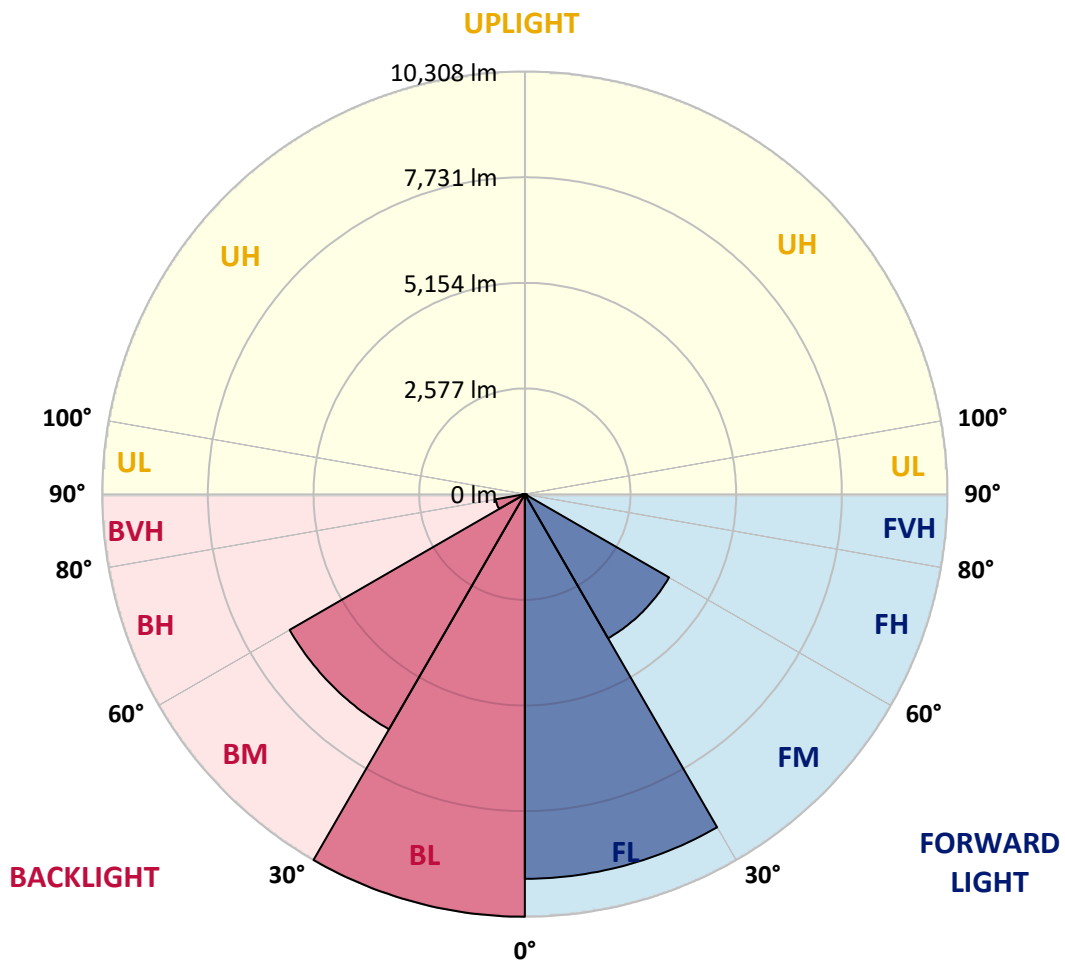
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9381.1	30.0			
FM (30°-60°)	4061.2	13.0			
FH (60°-80°)	58.8	0.2			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	10307.5	33.0	B5		
BM (30°-60°)	6624.1	21.2	B4/8500		
BH (60°-80°)	723.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	64.7	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°	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0
2.5°	37313.0	37160.6	36944.0	36923.9	37036.2	37280.9	37124.5	37132.5	37036.2	37200.7
5°	36727.4	36583.0	36434.5	36238.0	36402.5	36506.7	36426.5	36338.3	36213.9	36374.4
7.5°	35620.2	35540.0	35319.4	35231.2	35331.4	35447.8	35275.3	35251.2	35078.7	35287.3
10°	33927.5	33895.4	33678.8	33626.6	33714.9	33891.4	33815.2	33799.1	33690.8	33670.8
12.5°	32170.5	32046.2	31777.4	31761.4	31893.8	32158.5	31953.9	31757.4	31817.5	31869.7
15°	27645.8	27513.4	28179.3	29226.3	29775.8	29755.7	29815.9	29579.2	29507.0	29531.1
17.5°	21977.9	21753.2	21993.9	23614.5	26225.8	27742.1	27324.9	26815.5	26542.7	26362.2
20°	18969.4	18981.4	18937.3	19354.5	20983.1	24440.8	24340.5	23357.7	23000.7	22852.3
22.5°	17140.2	17072.0	16975.8	17108.1	17545.4	19575.1	20934.9	20032.4	19908.0	19743.6
25°	15347.2	15347.2	15230.9	15363.2	15487.6	15515.7	16879.5	17248.5	17007.9	17007.9
27.5°	13794.8	13714.6	13662.5	13722.6	13558.2	12767.9	12940.4	14829.7	14665.3	14565.0
30°	12254.5	12230.4	12142.2	12222.4	11612.7	10722.2	10361.2	12515.2	12687.7	12651.6
32.5°	10116.5	10212.7	10605.8	10730.2	9687.3	8969.2	8624.3	10389.2	11079.2	11051.1
35°	6875.4	6955.6	7404.8	8889.0	8030.6	7517.2	7416.9	8263.3	9398.5	9506.8
37.5°	5475.4	5463.4	5591.7	5856.5	6454.2	6329.8	6301.7	6522.4	7665.6	7713.7
40°	4512.7	4496.7	4492.6	4276.0	4127.6	5262.8	5186.6	5054.2	6045.0	6141.3
42.5°	3638.2	3654.3	3666.3	3193.0	2976.4	4059.4	4015.3	3878.9	4741.3	4853.7
45°	2856.0	2852.0	2876.1	2378.7	2318.5	2595.3	3000.4	2892.1	3578.1	3698.4
47.5°	1480.2	1532.3	1857.2	1841.2	1869.3	1841.2	2270.4	2242.3	2691.6	2884.1
50°	994.8	1010.8	1038.9	1042.9	1472.1	1355.8	1540.3	1744.9	1885.3	2182.1
52.5°	770.2	782.2	710.0	665.9	902.5	1002.8	1010.8	1207.4	1315.7	1616.5
55°	429.2	481.4	517.5	521.5	497.4	742.1	738.1	894.5	978.8	1179.3
57.5°	56.2	68.2	104.3	336.9	332.9	413.2	517.5	649.8	698.0	862.4
60°	4.0	8.0	12.0	52.1	220.6	240.7	353.0	405.1	485.4	605.7
62.5°	0.0	0.0	4.0	12.0	44.1	140.4	184.5	212.6	284.8	397.1
65°	0.0	0.0	4.0	8.0	16.0	52.1	72.2	116.3	168.5	244.7
67.5°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	52.1	88.2	148.4
70°	0.0	0.0	4.0	8.0	12.0	16.0	24.1	32.1	48.1	80.2
72.5°	0.0	0.0	4.0	4.0	8.0	20.1	20.1	24.1	32.1	44.1
75°	0.0	0.0	4.0	8.0	12.0	20.1	20.1	20.1	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	12.0	20.1	16.0	20.1	20.1	20.1
80°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	20.1	16.0	16.0
82.5°	0.0	0.0	4.0	12.0	12.0	28.1	28.1	28.1	12.0	12.0
85°	0.0	0.0	8.0	12.0	20.1	32.1	32.1	24.1	12.0	8.0
87.5°	0.0	0.0	4.0	8.0	8.0	16.0	24.1	20.1	8.0	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°
37309.0	0°	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0	37309.0
36960.0	2.5°	37256.9	37156.6	37345.1	37369.2	37288.9	37188.7	36956.0	36936.0	36530.8
36141.7	5°	36550.9	36386.4	36506.7	36587.0	36558.9	36450.6	36354.3	36266.1	35901.0
34814.0	7.5°	35235.2	35175.0	35231.2	35291.3	35407.7	35291.3	35251.2	35159.0	34797.9
33506.3	10°	33775.1	33662.7	33875.3	33847.3	33815.2	33783.1	33614.6	33630.7	33205.5
31725.3	12.5°	31982.0	31793.5	31998.1	32022.1	31998.1	31885.7	31697.2	31777.4	31388.3
29318.5	15°	29571.2	29551.2	29699.6	29795.9	29864.0	29743.7	29679.5	29719.6	29487.0
26221.8	17.5°	26610.9	26871.6	27357.0	27521.5	27525.5	27649.8	27613.7	27565.6	27393.1
22792.1	20°	23129.1	23630.5	24376.6	25142.8	25363.4	25259.1	25211.0	25299.2	25042.5
19571.1	22.5°	19916.1	20345.3	21211.7	22330.8	22976.7	23040.8	23028.8	22952.6	22852.3
16991.8	25°	17188.4	17569.4	18399.8	19422.7	20662.2	20846.7	20854.7	20830.6	20742.4
14653.2	27.5°	14885.9	15347.2	15804.5	16719.1	18038.8	18800.9	18704.6	18676.6	18644.5
12679.7	30°	12800.0	13381.7	13810.9	14380.5	15563.8	16594.7	16695.0	16646.9	16570.6
11047.1	32.5°	11147.4	11492.3	12037.9	12423.0	13273.4	14440.6	14825.7	14789.6	14721.4
9574.9	35°	9711.3	9847.7	10276.9	10706.1	11271.7	12402.9	12972.5	12892.3	12880.3
7802.0	37.5°	7998.5	8455.8	8692.5	9125.7	9522.8	10401.3	11187.5	11151.4	11155.4
6273.7	40°	6458.2	6722.9	7192.2	7557.3	7922.3	8564.1	9438.6	9462.6	9454.6
4857.7	42.5°	4958.0	5214.7	5708.1	6105.2	6430.1	6827.2	7661.6	7689.6	7725.7
3782.6	45°	3870.9	4035.4	4396.4	4809.5	5154.5	5395.2	6029.0	6209.5	6213.5
2932.3	47.5°	3004.5	3193.0	3449.7	3846.8	4183.8	4356.3	4817.6	5062.2	5050.2
2250.3	50°	2358.6	2531.1	2739.7	3052.6	3417.6	3554.0	3895.0	4135.6	4123.6
1696.8	52.5°	1805.1	2025.7	2210.2	2450.9	2807.9	2924.2	3168.9	3445.7	3405.6
1243.5	55°	1367.8	1592.5	1765.0	1965.5	2290.4	2438.9	2607.3	2828.0	2836.0
962.7	57.5°	1030.9	1263.6	1420.0	1624.6	1869.3	2033.7	2162.1	2398.8	2394.7
657.9	60°	738.1	938.6	1127.2	1339.8	1528.3	1716.8	1805.1	2029.7	2037.7
465.3	62.5°	533.5	722.0	902.5	1087.1	1255.5	1440.1	1520.3	1696.8	1720.8
304.9	65°	373.0	505.4	714.0	854.4	1042.9	1179.3	1283.6	1436.0	1464.1
180.5	67.5°	240.7	365.0	565.6	689.9	862.4	978.8	1087.1	1207.4	1243.5
116.3	70°	144.4	276.8	421.2	553.6	710.0	814.3	918.6	1022.9	1042.9
56.2	72.5°	92.3	192.5	304.9	449.3	569.6	681.9	774.2	850.4	790.2
36.1	75°	52.1	132.4	240.7	353.0	461.3	569.6	645.8	685.9	549.5
24.1	77.5°	32.1	96.3	196.6	284.8	357.0	457.3	505.4	529.5	393.1
16.0	80°	20.1	72.2	164.5	232.7	232.7	336.9	393.1	413.2	284.8
12.0	82.5°	16.0	52.1	128.4	176.5	156.4	252.7	308.9	312.9	200.6
8.0	85°	12.0	40.1	80.2	116.3	108.3	176.5	180.5	200.6	132.4
8.0	87.5°	8.0	24.1	48.1	68.2	60.2	84.2	96.3	108.3	72.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
37309.0  
*36213.9*  
35608.2  
34721.7  
33061.0  
31276.0  
29206.2  
27136.4  
24858.0  
22659.8  
20445.5  
18455.9  
16474.4  
14540.9  
12747.9  
11027.0  
9314.2  
7605.4  
6109.2  
5006.1  
4123.6  
3409.6  
2836.0  
2386.7  
2017.7  
1712.8  
1456.1  
1239.5  
1026.9  
734.1  
521.5  
369.0  
264.7  
184.5  
120.3  
64.2  
0.0

(END OF REPORT)