

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: P637226

Luminaire Tested: **IFLD-L-SA8A-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637226  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25042.8 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

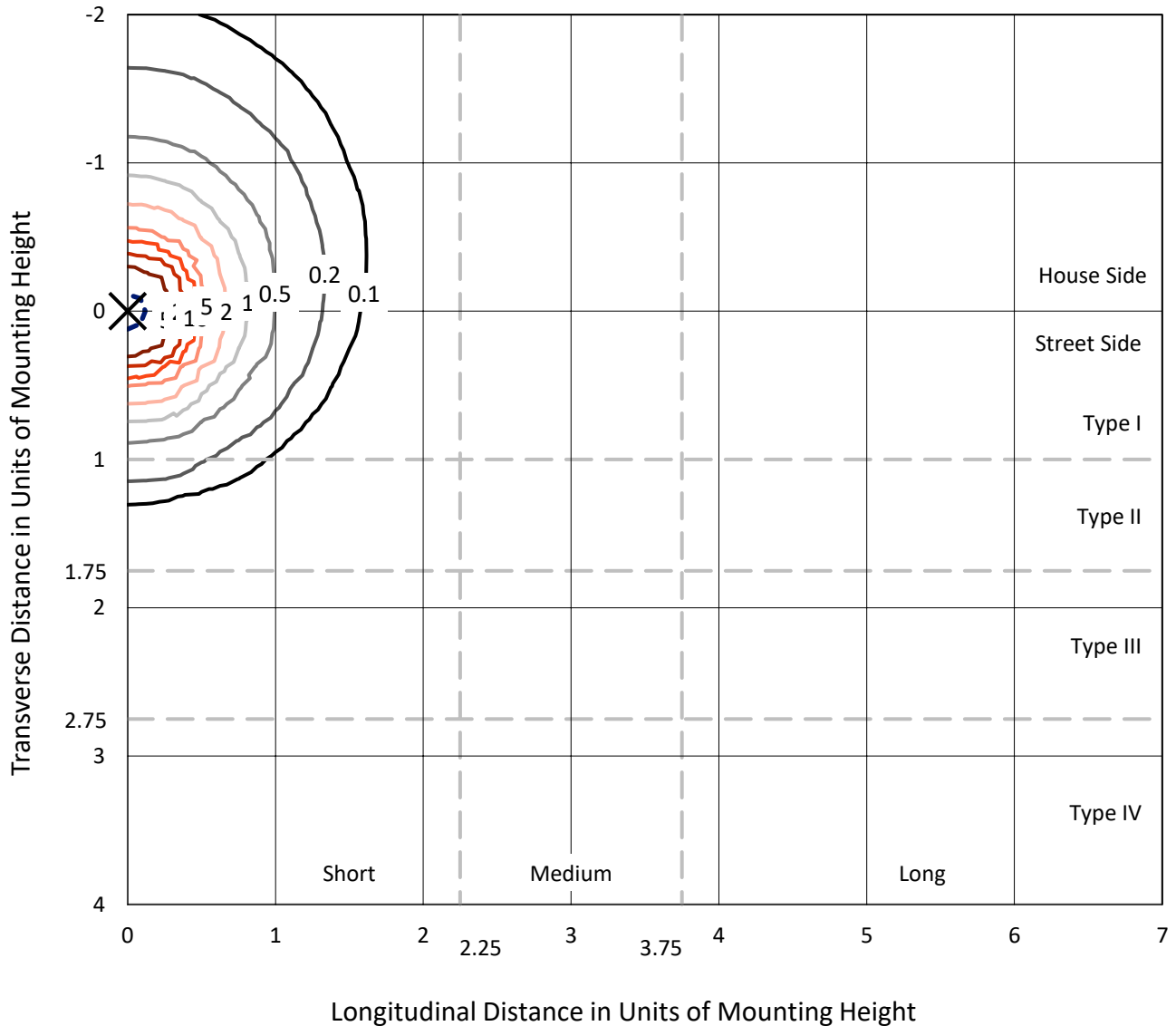
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

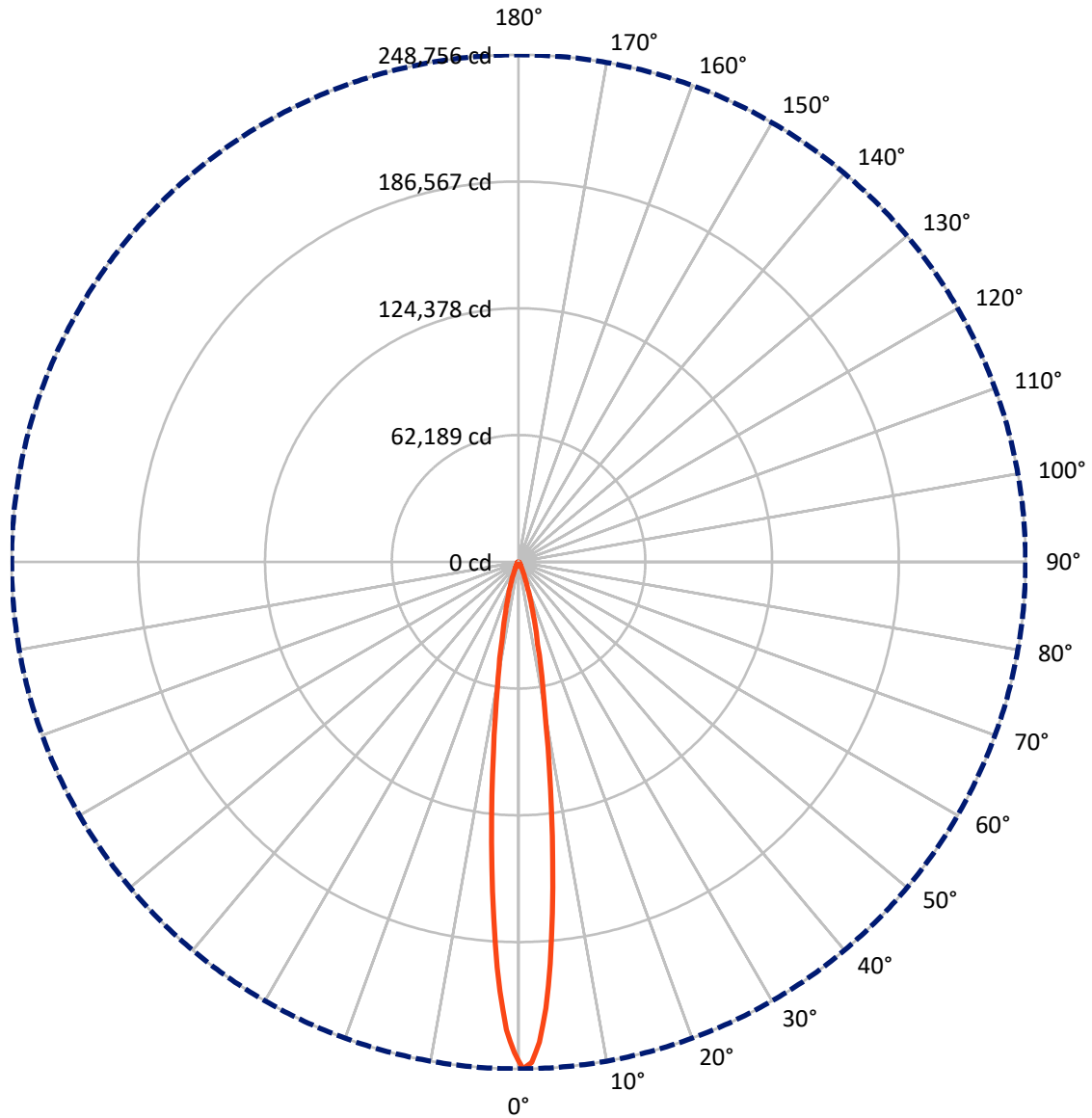
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 621.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12826.5	0.0	12826.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	12216.3	0.0	12216.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	25042.8	0.0	25042.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12642.4	50.5
10°-20°	8093.6	32.3
20°-30°	2432.8	9.7
30°-40°	792.1	3.2
40°-50°	460.9	1.8
50°-60°	306.1	1.2
60°-70°	184.3	0.7
70°-80°	94.7	0.4
80°-90°	36.0	0.1
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°	25042.8	100.0
0°-180°	25042.8	100.0

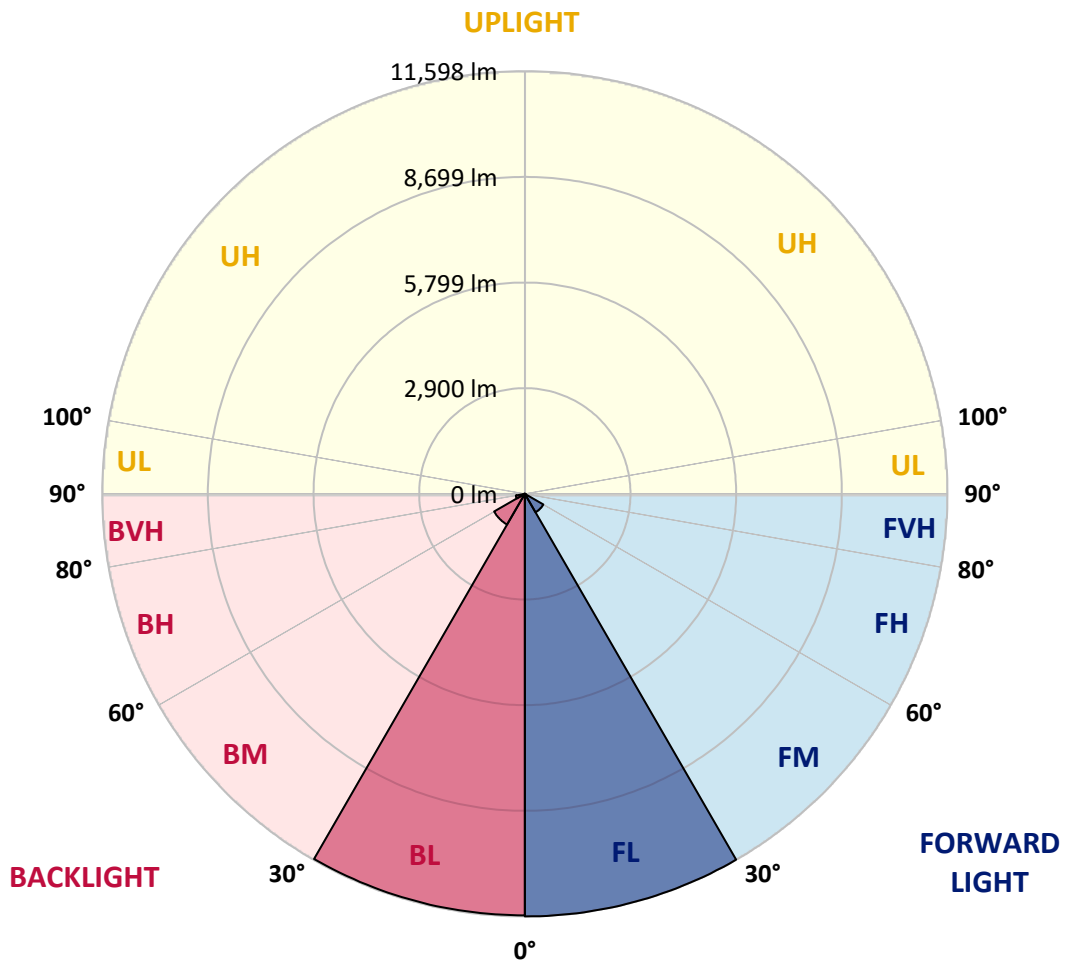


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11598.1	46.3			
FM (30°-60°)	585.3	2.3			
FH (60°-80°)	27.5	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11570.6	46.2	B5		
BM (30°-60°)	973.9	3.9	B1/1000		
BH (60°-80°)	251.4	1.0	B1/500		G0/660
BVH (80°-90°)	30.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2
1°	245777.7	245027.6	243091.1	244468.5	245679.5	245327.7	245303.1	245172.2	244989.5	246424.1
2°	235953.0	235467.5	232603.6	233784.6	235505.7	234251.0	235036.6	234346.5	234360.2	236073.1
3°	219391.3	219655.9	215087.2	217233.8	219625.9	216584.6	217528.4	219301.3	217443.8	216884.7
4°	197865.4	195568.8	193073.1	195255.1	195874.3	194104.1	195844.3	198015.4	195435.1	195549.7
5°	173290.1	171593.5	168639.6	169987.0	168451.4	169010.5	171618.1	172512.7	170712.5	168445.9
6°	148022.0	146816.4	143123.3	145065.3	144519.8	144203.4	147495.5	144768.0	145749.9	144377.9
7°	123124.8	120871.8	119058.0	120918.2	121038.2	120086.3	124360.4	123864.0	122077.4	121662.8
8°	102010.7	99763.2	98227.6	99613.2	100518.8	99024.1	101034.3	102354.4	100957.9	101083.4
9°	82276.9	81881.4	79745.7	81556.8	82541.4	80940.3	83166.0	83643.4	82336.9	82972.4
10°	67556.2	67095.3	65390.5	66124.2	67755.3	65846.0	67981.7	68137.2	67095.3	67392.6
12.5°	41748.0	41562.6	41516.2	41622.6	41600.7	41939.0	42484.5	41862.6	41780.8	40752.5
15°	26983.8	27259.2	26975.6	27521.1	27600.2	27919.3	27586.5	27084.7	26127.3	25652.7
17.5°	16840.0	17191.8	17677.3	18476.5	19275.7	19368.4	18926.5	18337.4	17873.7	17366.4
20°	9688.3	9860.1	9786.5	10743.9	12811.4	13373.2	12803.2	12184.0	11624.9	11112.1
22.5°	6019.7	5957.0	6071.5	6393.4	7067.1	8804.6	8338.2	7719.0	7312.6	6889.8
25°	3690.4	3758.6	3714.9	3892.2	4195.0	4931.4	5037.8	4770.5	4563.2	4345.0
27.5°	2375.7	2375.7	2394.8	2493.0	2700.3	2675.7	3243.1	3035.8	2923.9	2817.6
30°	1650.2	1655.6	1655.6	1712.9	1759.3	1677.4	1824.7	2092.0	2040.2	1958.4
32.5°	1224.7	1241.0	1254.7	1284.7	1246.5	1159.2	1194.7	1505.6	1475.6	1445.6
35°	932.8	946.5	979.2	995.6	941.0	886.5	853.7	1107.4	1121.0	1112.8
37.5°	679.2	687.3	747.4	810.1	747.4	698.3	679.2	851.0	916.5	908.3
40°	521.0	523.7	534.6	605.5	605.5	567.3	572.8	635.5	750.1	750.1
42.5°	447.3	447.3	458.2	447.3	450.0	491.0	504.6	512.8	635.5	635.5
45°	387.3	387.3	392.8	365.5	338.2	422.8	433.7	436.4	534.6	548.2
47.5°	324.6	324.6	335.5	300.0	286.4	335.5	365.5	373.7	461.0	471.9
50°	240.0	242.8	275.5	245.5	253.7	259.1	316.4	321.9	390.0	414.6
52.5°	160.9	160.9	166.4	190.9	220.9	212.7	256.4	275.5	310.9	343.7
55°	130.9	130.9	128.2	122.7	163.7	177.3	188.2	229.1	253.7	294.6
57.5°	90.0	95.5	87.3	100.9	106.4	133.7	141.8	180.0	193.7	248.2
60°	10.9	13.6	19.1	73.6	70.9	90.0	106.4	141.8	158.2	190.9
62.5°	2.7	2.7	5.5	13.6	49.1	60.0	84.6	98.2	114.6	147.3
65°	0.0	0.0	2.7	5.5	10.9	32.7	43.6	57.3	81.8	103.6
67.5°	0.0	0.0	2.7	5.5	5.5	13.6	21.8	35.5	43.6	76.4
70°	0.0	0.0	2.7	5.5	5.5	10.9	13.6	16.4	30.0	40.9
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	13.6	13.6	27.3
75°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	13.6	10.9	10.9
77.5°	0.0	0.0	2.7	5.5	10.9	13.6	16.4	13.6	8.2	8.2
80°	0.0	0.0	2.7	8.2	13.6	19.1	21.8	16.4	8.2	5.5
82.5°	0.0	0.0	5.5	10.9	16.4	21.8	30.0	24.5	10.9	5.5
85°	0.0	0.0	2.7	8.2	16.4	21.8	43.6	30.0	13.6	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	16.4	10.9	5.5	2.7
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°
248756.2	0°	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2	248756.2
244768.5	1°	246478.7	246650.5	246088.7	246958.8	246653.3	244864.0	244272.1	243571.1	242561.9
235066.6	2°	234346.5	235222.1	235265.7	236231.3	236217.6	234131.0	233484.6	234676.5	232349.9
218019.3	3°	217359.3	218379.4	217460.2	219175.8	218660.3	216129.1	215471.8	216824.7	215133.6
196455.2	4°	195868.8	195675.2	195358.8	194382.3	195585.2	193858.6	192557.6	194393.2	190776.5
171451.7	5°	171108.0	170677.1	170060.6	169771.5	170666.2	169561.5	166885.8	169567.0	163116.3
146860.0	6°	147040.0	145185.3	145095.3	144934.4	145024.4	141931.3	142116.8	144113.4	138745.5
120236.3	7°	121507.3	121848.3	121152.8	122268.3	121417.3	119322.6	118515.2	120618.2	116824.1
101634.3	8°	100925.2	100494.2	99962.4	101628.9	100153.3	98778.6	97837.6	99498.7	96681.1
83076.0	9°	82920.6	82175.9	81635.9	81551.3	81780.4	79200.2	79723.9	80981.3	79284.7
67556.2	10°	67580.8	66358.8	66656.1	66735.2	66484.3	64793.2	64809.6	65243.2	63203.0
41434.4	12.5°	41287.1	40687.0	40837.0	40918.9	41428.9	40834.3	39994.2	39388.7	39083.2
26124.6	15°	25950.0	25519.1	26400.1	26991.9	26871.9	26342.8	25947.3	25399.0	24957.2
17366.4	17.5°	17205.4	17770.1	17772.8	18312.8	18367.4	17838.2	17532.8	17039.1	17060.9
11294.8	20°	11253.9	11488.5	11976.7	12358.6	12579.5	12175.8	11810.3	11472.1	11330.3
7042.6	22.5°	7042.6	7451.7	7757.2	8253.6	8455.4	8160.9	7901.7	7626.3	7457.1
4396.8	25°	4323.2	4615.0	4868.7	5299.6	5575.1	5433.3	5196.0	5002.3	4912.3
2839.4	27.5°	2883.0	3005.8	3131.2	3428.5	3714.9	3635.8	3540.4	3423.1	3382.2
2002.0	30°	2032.0	2042.9	2176.6	2343.0	2533.9	2583.0	2539.4	2479.4	2433.0
1470.2	32.5°	1497.4	1541.1	1603.8	1707.5	1835.6	1952.9	1931.1	1903.8	1882.0
1123.8	35°	1156.5	1221.9	1273.8	1352.9	1421.1	1532.9	1552.0	1543.8	1527.4
924.6	37.5°	943.7	1001.0	1052.8	1099.2	1156.5	1232.9	1292.9	1295.6	1279.2
763.7	40°	782.8	834.6	902.8	938.3	979.2	1036.5	1110.1	1115.6	1110.1
646.4	42.5°	660.1	709.2	777.4	821.0	851.0	905.5	979.2	990.1	979.2
553.7	45°	567.3	597.3	668.3	720.1	750.1	785.5	864.6	875.5	872.8
477.3	47.5°	493.7	523.7	567.3	641.0	668.3	701.0	763.7	782.8	782.8
422.8	50°	433.7	463.7	501.9	567.3	608.2	635.5	687.3	714.6	714.6
368.2	52.5°	384.6	414.6	455.5	507.3	553.7	578.2	627.3	662.8	662.8
300.0	55°	321.9	373.7	403.7	450.0	512.8	534.6	572.8	619.2	619.2
261.8	57.5°	280.9	324.6	368.2	406.4	469.1	496.4	534.6	578.2	583.7
207.3	60°	237.3	278.2	330.0	362.8	422.8	458.2	499.1	540.1	551.0
158.2	62.5°	188.2	242.8	278.2	324.6	381.9	428.2	461.0	501.9	518.2
122.7	65°	139.1	199.1	240.0	289.1	343.7	392.8	420.0	463.7	474.6
87.3	67.5°	100.9	155.5	204.6	250.9	302.8	351.9	379.1	417.3	425.5
54.6	70°	79.1	114.6	169.1	210.0	264.6	305.5	335.5	360.0	368.2
35.5	72.5°	46.4	87.3	136.4	182.7	231.8	259.1	280.9	302.8	308.2
16.4	75°	30.0	68.2	111.8	152.7	188.2	212.7	231.8	250.9	253.7
8.2	77.5°	19.1	49.1	90.0	128.2	144.6	174.6	190.9	201.8	196.4
5.5	80°	10.9	38.2	79.1	103.6	117.3	136.4	152.7	166.4	152.7
5.5	82.5°	8.2	32.7	65.5	87.3	87.3	109.1	117.3	117.3	111.8
2.7	85°	5.5	27.3	51.8	81.8	65.5	81.8	76.4	76.4	76.4
2.7	87.5°	5.5	19.1	24.5	35.5	30.0	35.5	35.5	40.9	40.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
248756.2  
240794.5  
229627.8  
210815.9  
187748.9  
162502.6  
138325.5  
114898.5  
94755.4  
77053.6  
62292.0  
39020.5  
25118.1  
16916.3  
11354.8  
7479.0  
4890.5  
3354.9  
2438.4  
1882.0  
1516.5  
1276.5  
1107.4  
981.9  
872.8  
785.5  
717.3  
662.8  
621.9  
581.0  
551.0  
521.0  
471.9  
420.0  
368.2  
308.2  
250.9  
196.4  
150.0  
109.1  
73.6  
40.9  
0.0

(END OF REPORT)