

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: P637042

Luminaire Tested: **IFLD-M-SA4A-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637042  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15359 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

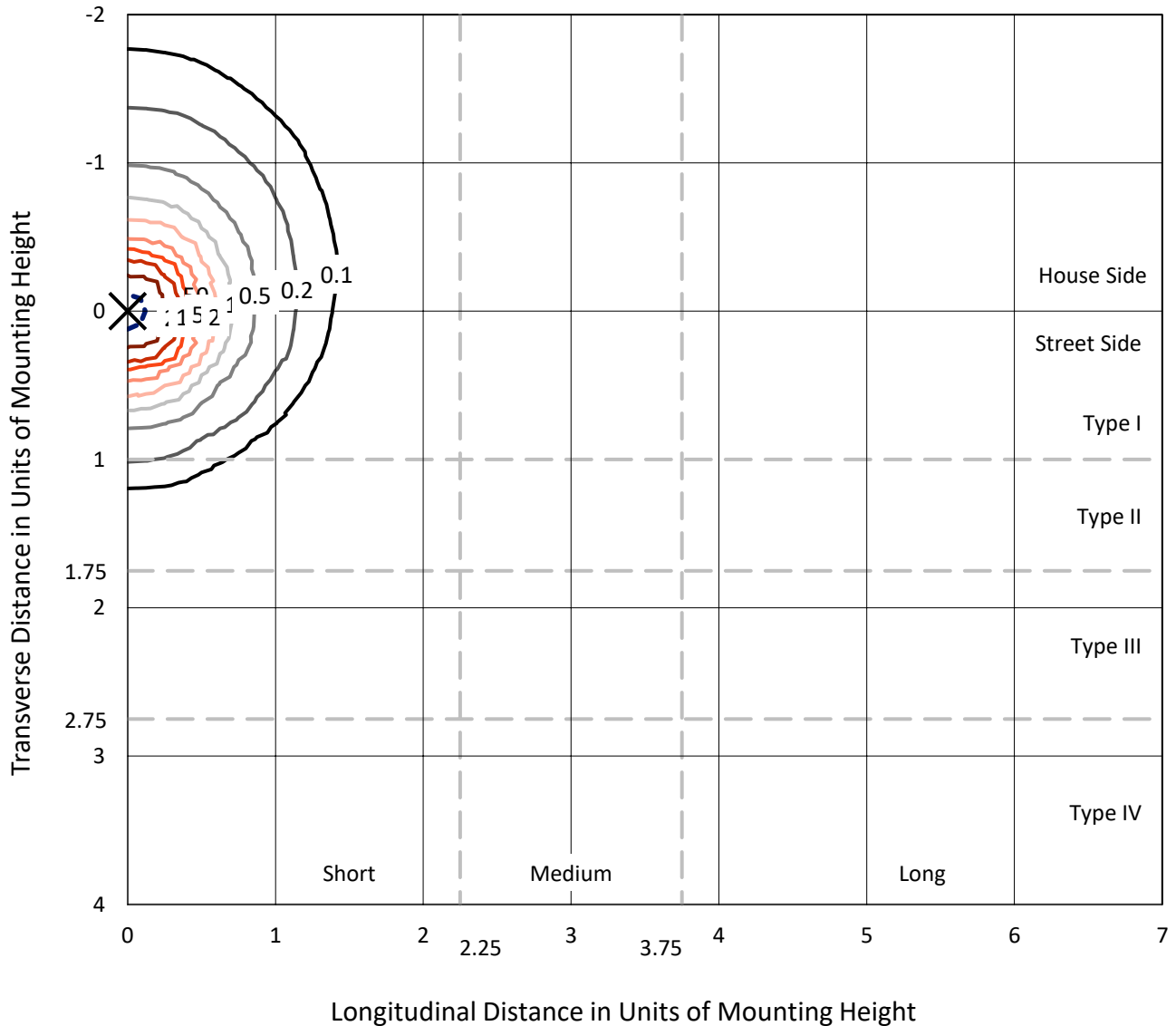
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

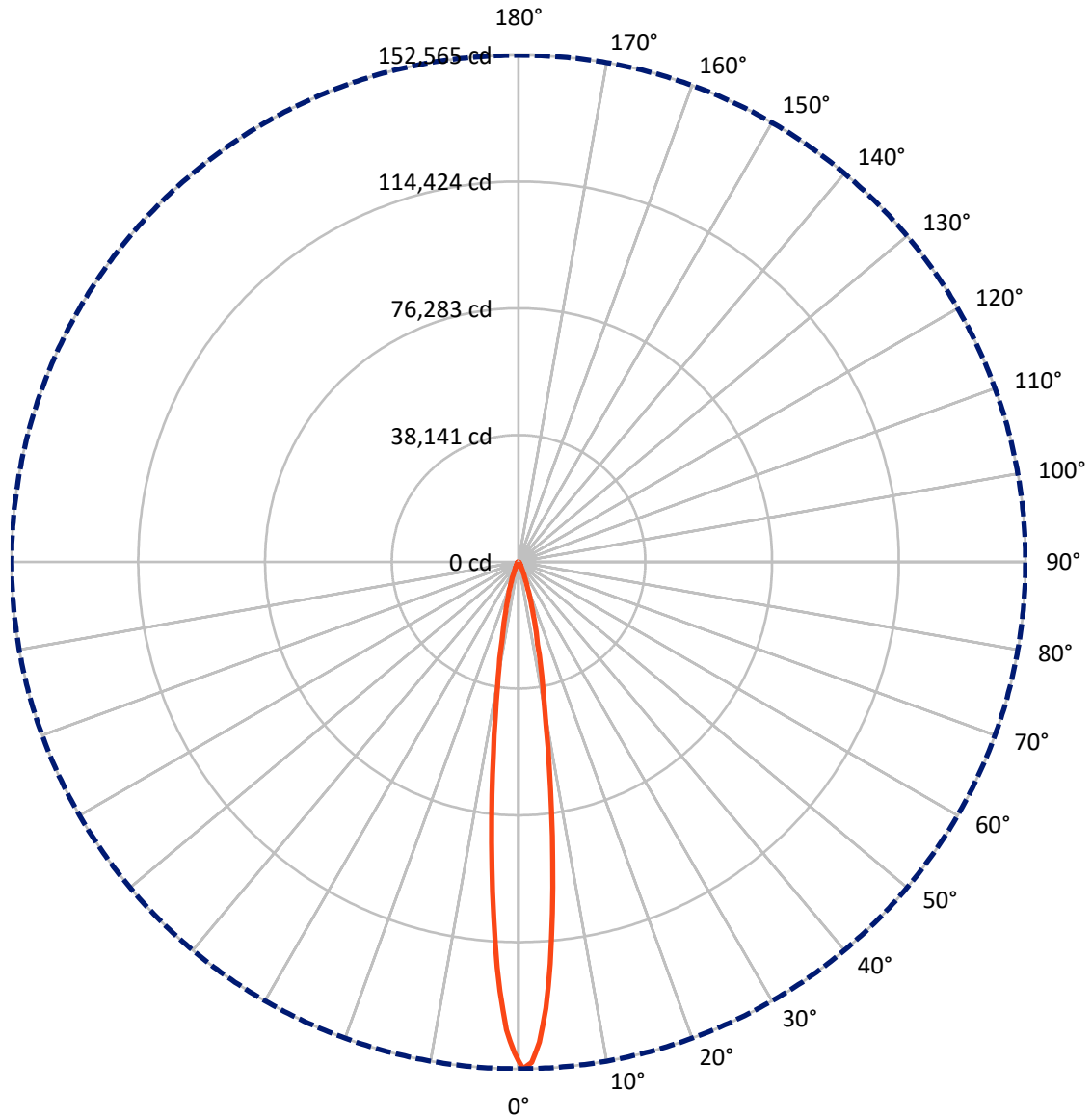
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 381.4 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	7866.6	0.0	7866.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	7492.4	0.0	7492.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	15359.0	0.0	15359.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7753.7	50.5
10°-20°	4963.9	32.3
20°-30°	1492.0	9.7
30°-40°	485.8	3.2
40°-50°	282.7	1.8
50°-60°	187.8	1.2
60°-70°	113.0	0.7
70°-80°	58.1	0.4
80°-90°	22.1	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°	15359.0	100.0
0°-180°	15359.0	100.0

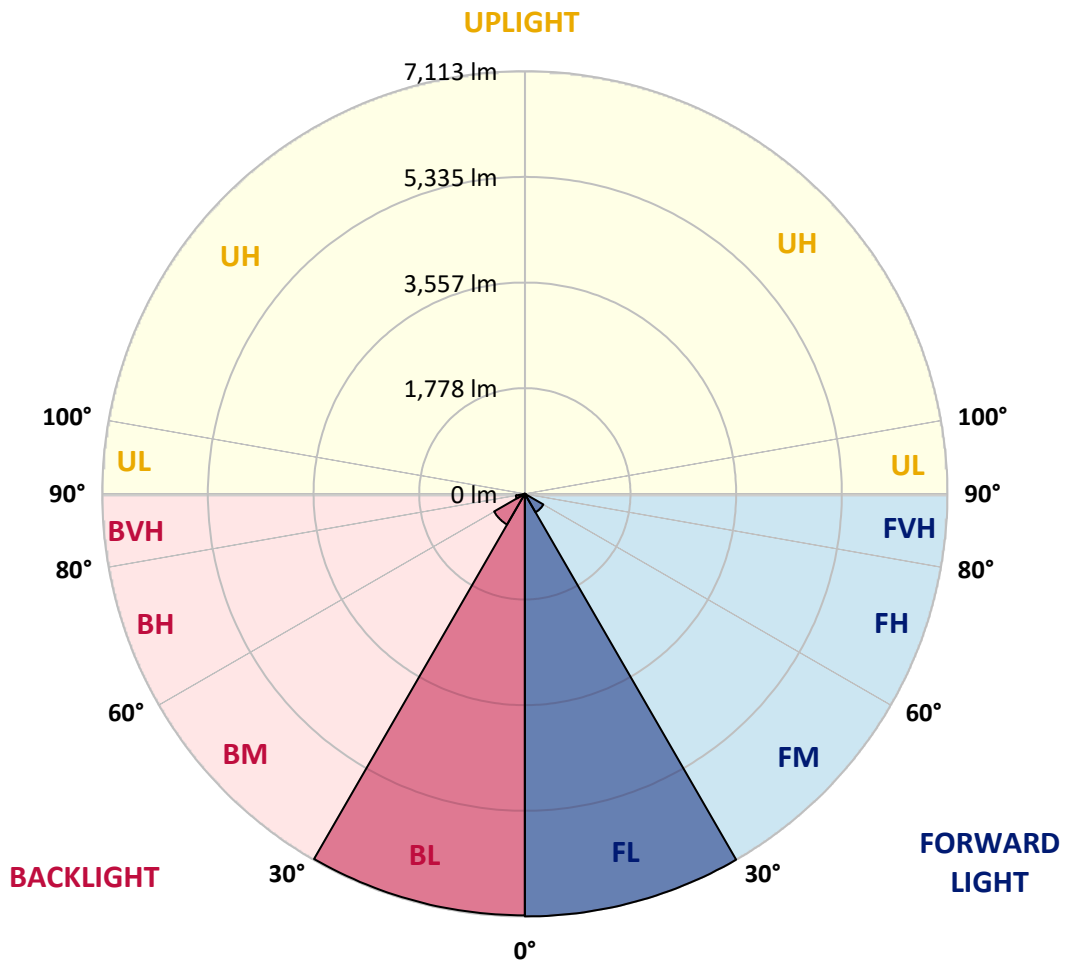


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7113.2	46.3			
FM (30°-60°)	359.0	2.3			
FH (60°-80°)	16.9	0.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	7096.4	46.2	B5		
BM (30°-60°)	597.3	3.9	B1/1000		
BH (60°-80°)	154.2	1.0	B1/500		G0/660
BVH (80°-90°)	18.7	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°	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0
1°	150738.3	150278.2	149090.5	149935.3	150678.0	150462.2	150447.2	150366.9	150254.8	151134.7
2°	144712.7	144414.9	142658.4	143382.8	144438.3	143668.8	144150.6	143727.4	143735.7	144786.3
3°	134555.2	134717.4	131915.4	133231.9	134699.0	132833.8	133412.6	134500.0	133360.8	133017.8
4°	121353.1	119944.6	118413.9	119752.2	120131.9	119046.2	120113.5	121445.1	119862.6	119932.8
5°	106280.8	105240.3	103428.6	104255.0	103313.1	103656.1	105255.3	105804.0	104699.9	103309.8
6°	90783.5	90044.1	87779.1	88970.2	88635.6	88441.6	90460.7	88787.8	89390.1	88548.6
7°	75513.8	74132.1	73019.6	74160.5	74234.1	73650.3	76271.6	75967.2	74871.5	74617.2
8°	62564.3	61185.9	60244.1	61093.9	61649.3	60732.6	61965.5	62775.1	61918.6	61995.6
9°	50461.3	50218.8	48908.9	50019.7	50623.6	49641.6	51006.7	51299.4	50498.1	50887.9
10°	41433.0	41150.3	40104.8	40554.7	41555.1	40384.1	41694.0	41789.3	41150.3	41332.6
12.5°	25604.5	25490.8	25462.4	25527.6	25514.2	25721.6	26056.2	25674.8	25624.6	24994.0
15°	16549.4	16718.4	16544.4	16879.0	16927.5	17123.2	16919.1	16611.3	16024.2	15733.1
17.5°	10328.1	10543.9	10841.7	11331.8	11822.0	11878.9	11607.9	11246.5	10962.1	10651.0
20°	5941.9	6047.3	6002.2	6589.3	7857.3	8202.0	7852.3	7472.6	7129.7	6815.2
22.5°	3692.0	3653.5	3723.7	3921.1	4334.3	5399.9	5113.9	4734.1	4484.9	4225.6
25°	2263.4	2305.2	2278.4	2387.1	2572.8	3024.5	3089.7	2925.8	2798.7	2664.8
27.5°	1457.0	1457.0	1468.8	1529.0	1656.1	1641.1	1989.0	1861.9	1793.3	1728.0
30°	1012.1	1015.4	1015.4	1050.5	1079.0	1028.8	1119.1	1283.1	1251.3	1201.1
32.5°	751.1	761.1	769.5	787.9	764.5	711.0	732.7	923.4	905.0	886.6
35°	572.1	580.5	600.6	610.6	577.1	543.7	523.6	679.2	687.5	682.5
37.5°	416.5	421.6	458.4	496.8	458.4	428.2	416.5	521.9	562.1	557.1
40°	319.5	321.2	327.9	371.4	371.4	348.0	351.3	389.8	460.0	460.0
42.5°	274.3	274.3	281.0	274.3	276.0	301.1	309.5	314.5	389.8	389.8
45°	237.5	237.5	240.9	224.2	207.4	259.3	266.0	267.7	327.9	336.2
47.5°	199.1	199.1	205.8	184.0	175.6	205.8	224.2	229.2	282.7	289.4
50°	147.2	148.9	169.0	150.6	155.6	158.9	194.0	197.4	239.2	254.3
52.5°	98.7	98.7	102.0	117.1	135.5	130.5	157.2	169.0	190.7	210.8
55°	80.3	80.3	78.6	75.3	100.4	108.7	115.4	140.5	155.6	180.7
57.5°	55.2	58.5	53.5	61.9	65.2	82.0	87.0	110.4	118.8	152.2
60°	6.7	8.4	11.7	45.2	43.5	55.2	65.2	87.0	97.0	117.1
62.5°	1.7	1.7	3.3	8.4	30.1	36.8	51.9	60.2	70.3	90.3
65°	0.0	0.0	1.7	3.3	6.7	20.1	26.8	35.1	50.2	63.6
67.5°	0.0	0.0	1.7	3.3	3.3	8.4	13.4	21.7	26.8	46.8
70°	0.0	0.0	1.7	3.3	3.3	6.7	8.4	10.0	18.4	25.1
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	8.4	8.4	16.7
75°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	8.4	6.7	6.7
77.5°	0.0	0.0	1.7	3.3	6.7	8.4	10.0	8.4	5.0	5.0
80°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	10.0	5.0	3.3
82.5°	0.0	0.0	3.3	6.7	10.0	13.4	18.4	15.1	6.7	3.3
85°	0.0	0.0	1.7	5.0	10.0	13.4	26.8	18.4	8.4	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.3	10.0	6.7	3.3	1.7
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°
152565.0	0°	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0	152565.0
150119.3	1°	151168.2	151273.6	150929.0	151462.6	151275.2	150177.9	149814.8	149384.9	148766.0
144169.0	2°	143727.4	144264.4	144291.1	144883.3	144874.9	143595.2	143198.8	143929.8	142502.8
133713.7	3°	133308.9	133934.5	133370.8	134423.0	134106.8	132554.4	132151.3	132981.0	131943.9
120488.2	4°	120128.6	120009.8	119815.7	119216.9	119954.6	118895.7	118097.7	119223.6	117005.4
105153.3	5°	104942.5	104678.2	104300.1	104122.8	104671.5	103994.0	102352.9	103997.3	100041.1
90070.9	6°	90181.3	89043.8	88988.6	88889.9	88945.1	87048.1	87161.8	88386.4	85094.2
73742.3	7°	74521.8	74730.9	74304.4	74988.6	74466.6	73181.9	72686.7	73976.5	71649.6
62333.5	8°	61898.6	61634.2	61308.0	62330.1	61425.1	60582.0	60004.9	61023.7	59295.6
50951.5	9°	50856.1	50399.4	50068.2	50016.3	50156.9	48574.4	48895.5	49666.7	48626.2
41433.0	10°	41448.0	40698.6	40880.9	40929.5	40775.6	39738.4	39748.4	40014.4	38763.1
25412.2	12.5°	25321.8	24953.8	25045.8	25096.0	25408.8	25044.1	24528.9	24157.5	23970.2
16022.5	15°	15915.4	15651.1	16191.5	16554.5	16480.9	16156.3	15913.8	15577.5	15306.5
10651.0	17.5°	10552.3	10898.6	10900.2	11231.5	11264.9	10940.4	10753.0	10450.3	10463.6
6927.2	20°	6902.2	7046.0	7345.5	7579.7	7715.2	7467.6	7243.4	7036.0	6949.0
4319.3	22.5°	4319.3	4570.2	4757.6	5062.0	5185.8	5005.1	4846.2	4677.3	4573.6
2696.6	25°	2651.5	2830.5	2986.0	3250.3	3419.3	3332.3	3186.8	3068.0	3012.8
1741.4	27.5°	1768.2	1843.5	1920.4	2102.8	2278.4	2229.9	2171.4	2099.4	2074.3
1227.9	30°	1246.3	1253.0	1334.9	1437.0	1554.1	1584.2	1557.4	1520.6	1492.2
901.7	32.5°	918.4	945.2	983.6	1047.2	1125.8	1197.8	1184.4	1167.6	1154.3
689.2	35°	709.3	749.4	781.2	829.7	871.6	940.1	951.8	946.8	936.8
567.1	37.5°	578.8	613.9	645.7	674.2	709.3	756.1	792.9	794.6	784.6
468.4	40°	480.1	511.9	553.7	575.5	600.6	635.7	680.8	684.2	680.8
396.5	42.5°	404.8	434.9	476.8	503.5	521.9	555.4	600.6	607.2	600.6
339.6	45°	348.0	366.4	409.8	441.6	460.0	481.8	530.3	537.0	535.3
292.7	47.5°	302.8	321.2	348.0	393.1	409.8	429.9	468.4	480.1	480.1
259.3	50°	266.0	284.4	307.8	348.0	373.0	389.8	421.6	438.3	438.3
225.8	52.5°	235.9	254.3	279.4	311.1	339.6	354.6	384.8	406.5	406.5
184.0	55°	197.4	229.2	247.6	276.0	314.5	327.9	351.3	379.7	379.7
160.6	57.5°	172.3	199.1	225.8	249.3	287.7	304.5	327.9	354.6	358.0
127.1	60°	145.5	170.6	202.4	222.5	259.3	281.0	306.1	331.2	337.9
97.0	62.5°	115.4	148.9	170.6	199.1	234.2	262.6	282.7	307.8	317.8
75.3	65°	85.3	122.1	147.2	177.3	210.8	240.9	257.6	284.4	291.1
53.5	67.5°	61.9	95.4	125.5	153.9	185.7	215.8	232.5	255.9	261.0
33.5	70°	48.5	70.3	103.7	128.8	162.3	187.4	205.8	220.8	225.8
21.7	72.5°	28.4	53.5	83.6	112.1	142.2	158.9	172.3	185.7	189.0
10.0	75°	18.4	41.8	68.6	93.7	115.4	130.5	142.2	153.9	155.6
5.0	77.5°	11.7	30.1	55.2	78.6	88.7	107.1	117.1	123.8	120.4
3.3	80°	6.7	23.4	48.5	63.6	71.9	83.6	93.7	102.0	93.7
3.3	82.5°	5.0	20.1	40.1	53.5	53.5	66.9	71.9	71.9	68.6
1.7	85°	3.3	16.7	31.8	50.2	40.1	50.2	46.8	46.8	46.8
1.7	87.5°	3.3	11.7	15.1	21.7	18.4	21.7	21.7	25.1	25.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
152565.0  
147682.0  
140833.3  
129295.7  
115148.5  
99664.7  
84836.6  
70468.5  
58114.6  
47257.8  
38204.4  
23931.7  
15405.2  
10375.0  
6964.0  
4586.9  
2999.4  
2057.6  
1495.5  
1154.3  
930.1  
782.9  
679.2  
602.2  
535.3  
481.8  
440.0  
406.5  
381.4  
356.3  
337.9  
319.5  
289.4  
257.6  
225.8  
189.0  
153.9  
120.4  
92.0  
66.9  
45.2  
25.1  
0.0

(END OF REPORT)