

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: P637274

Luminaire Tested: **IFLD-M-SA4A-722-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637274  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-722-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13119.9 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

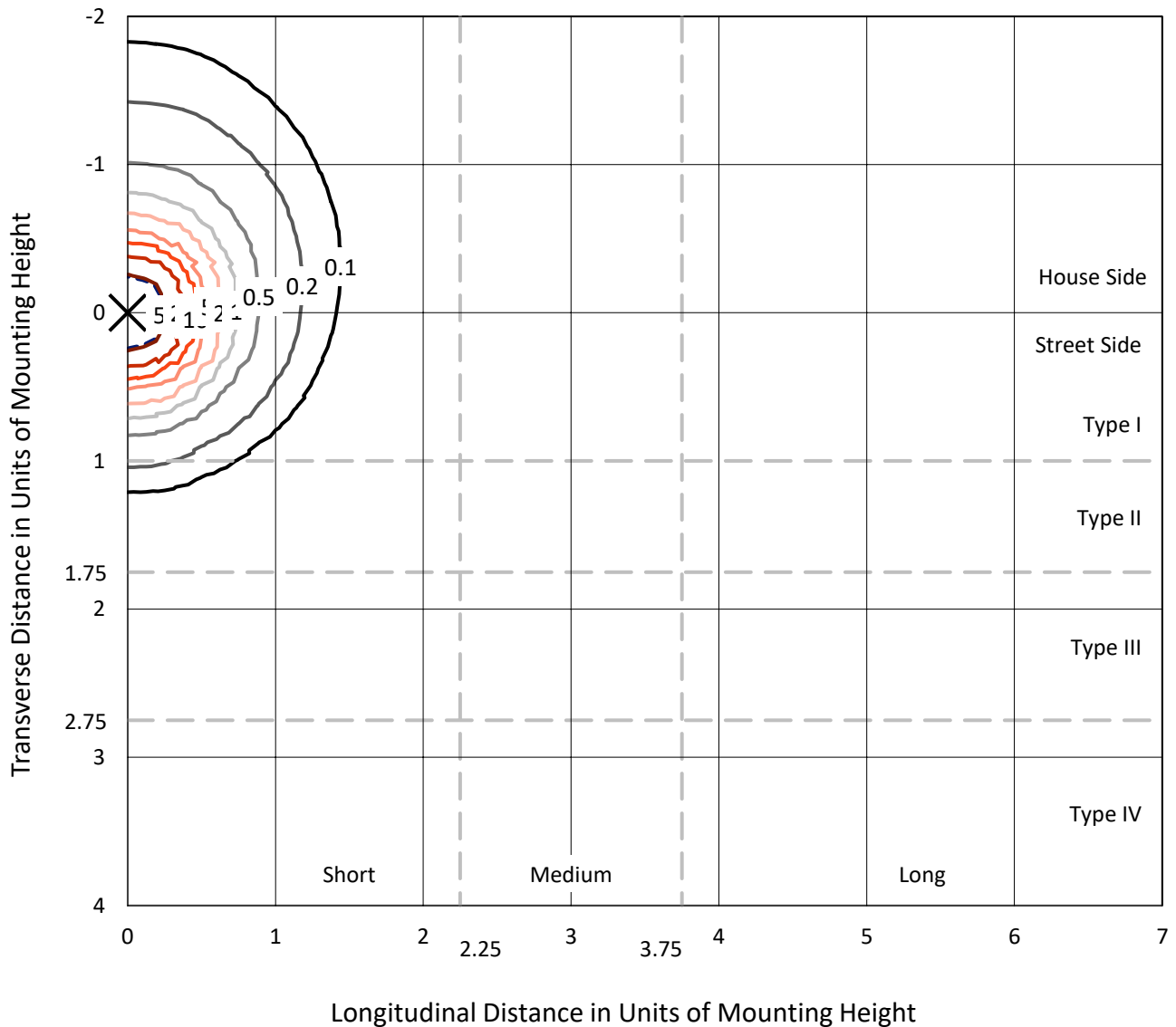
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

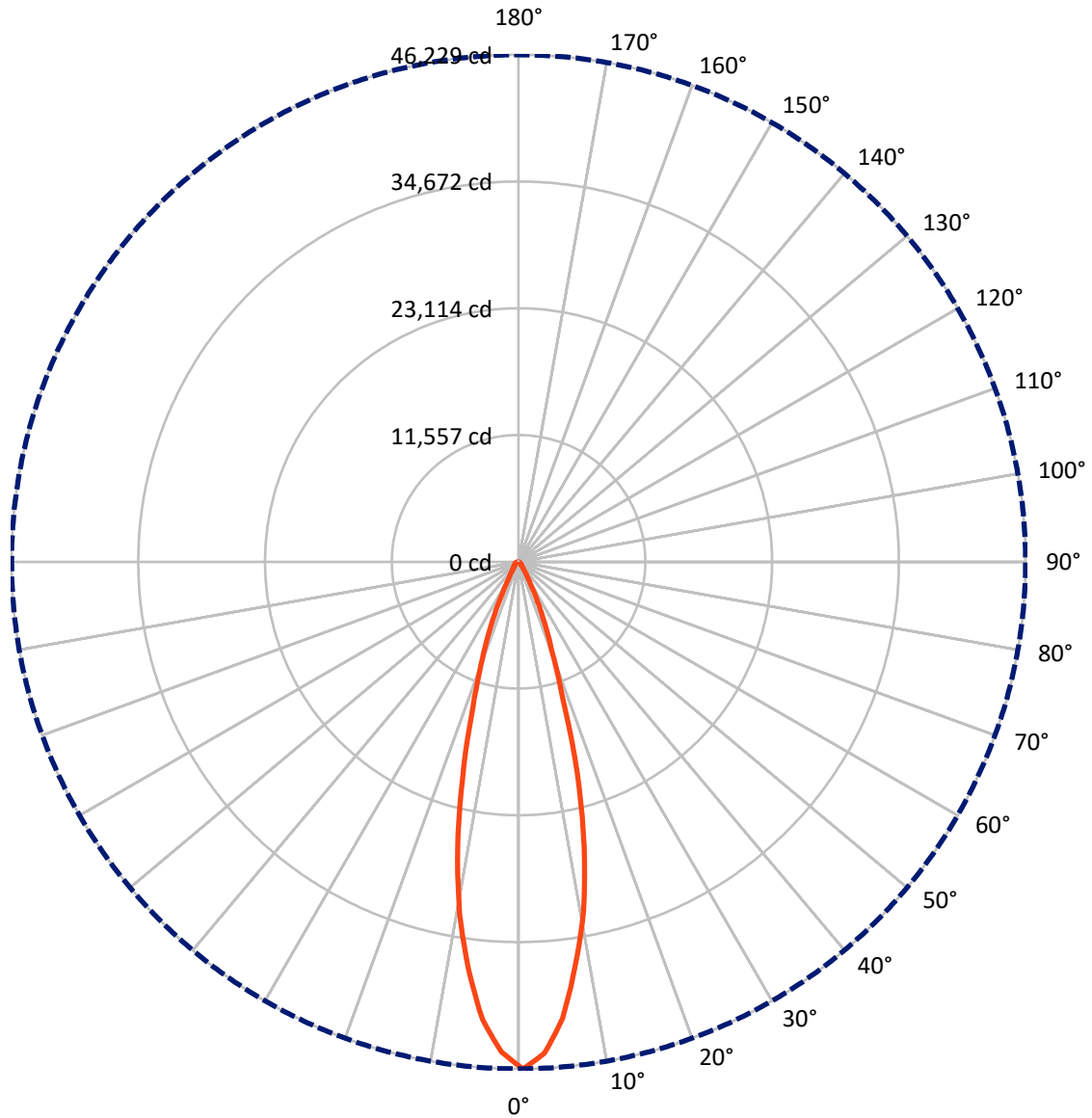
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 115.6 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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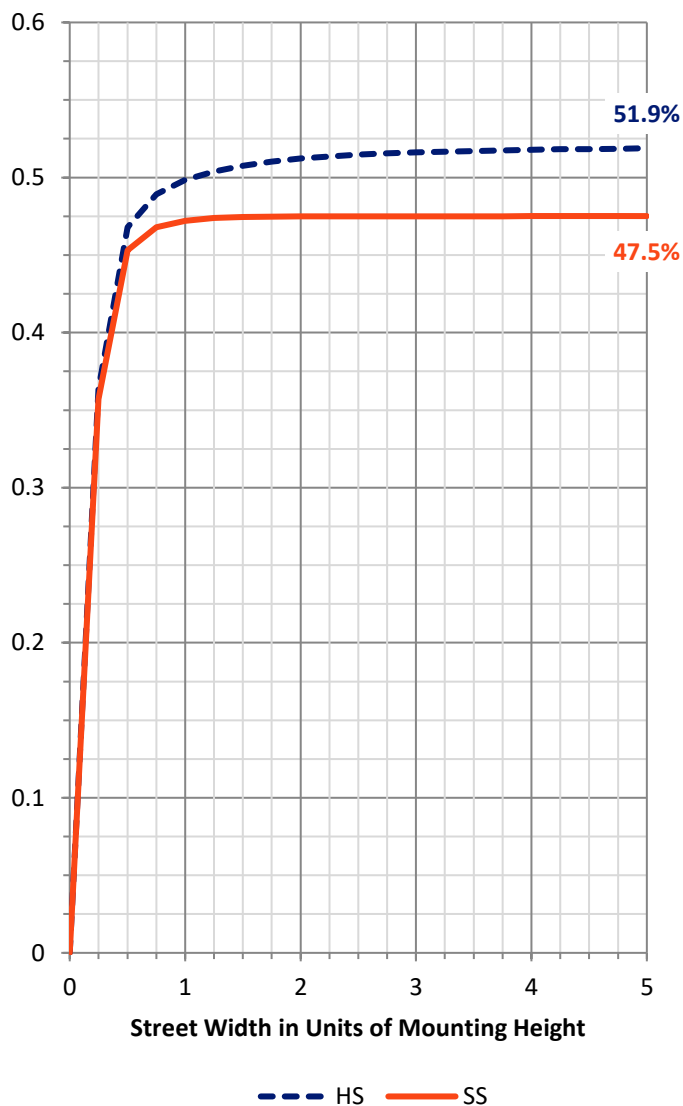
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6917.7	0.0	6917.7
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	6202.2	0.0	6202.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	13119.9	0.0	13119.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3731.1	28.4
10°-20°	5650.7	43.1
20°-30°	2384.6	18.2
30°-40°	621.9	4.7
40°-50°	314.6	2.4
50°-60°	205.6	1.6
60°-70°	123.2	0.9
70°-80°	64.8	0.5
80°-90°	23.4	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°	13119.9	100.0
0°-180°	13119.9	100.0

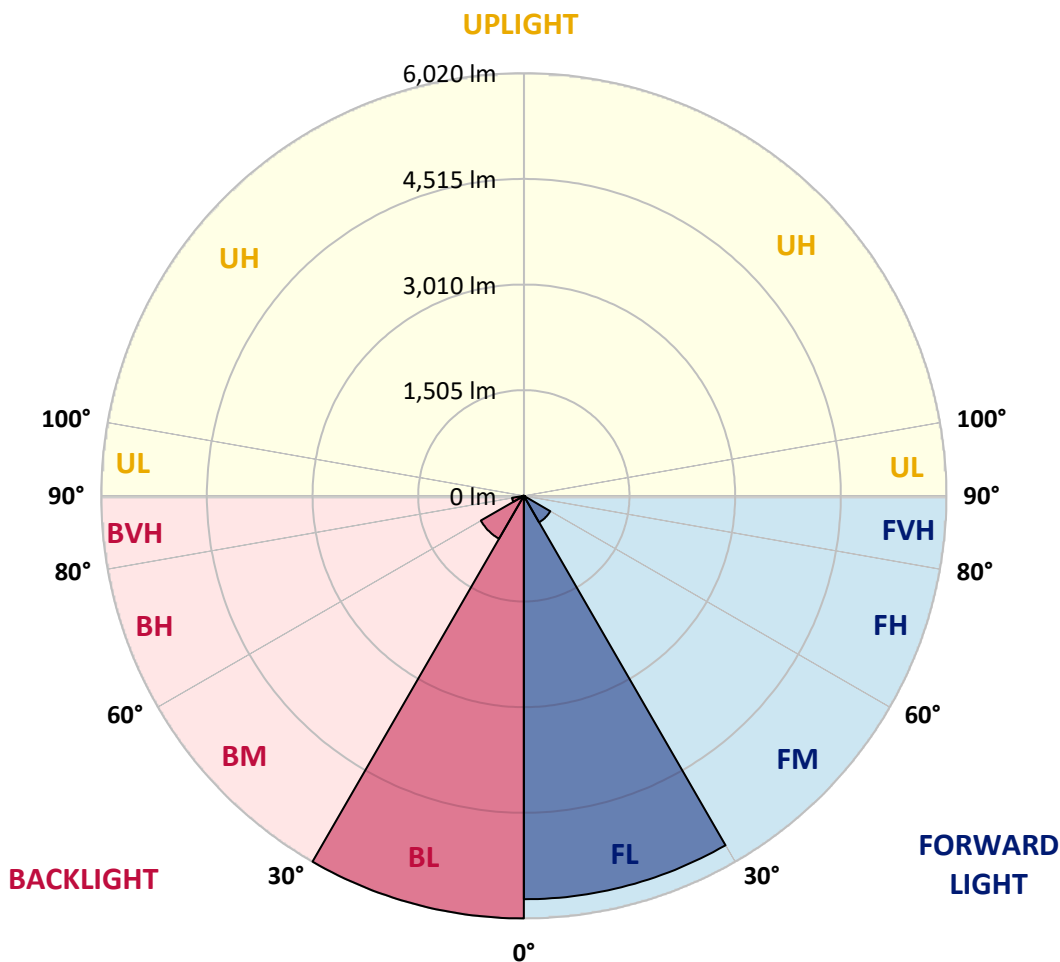


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5746.4	43.8			
FM (30°-60°)	435.2	3.3			
FH (60°-80°)	17.7	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	6020.0	45.9	B5		
BM (30°-60°)	706.9	5.4	B1/1000		
BH (60°-80°)	170.2	1.3	B1/500		G0/660
BVH (80°-90°)	20.6	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9
2.5°	44882.3	44907.3	44814.5	45014.9	44858.7	45277.1	45069.4	45393.5	45284.5	45465.7
5°	41817.6	41776.4	41749.8	42060.7	41970.8	42420.2	42132.9	42038.6	42330.4	42277.3
7.5°	37189.7	37298.7	37236.9	37317.9	37363.6	37876.3	38038.4	37911.7	37916.1	37989.8
10°	32445.4	32284.8	32056.4	32208.2	32529.4	32753.4	32663.5	32849.1	32807.9	32983.2
12.5°	26607.9	26734.6	26606.4	26470.8	27032.2	26970.3	27126.5	27228.2	26973.3	27540.5
15°	20042.5	20108.8	20264.9	20254.6	20686.3	20773.3	20752.6	20860.2	20661.3	20755.6
17.5°	12875.9	13099.9	13519.8	14230.0	15028.5	15121.4	15097.8	15009.4	14913.6	14807.5
20°	8648.8	8625.2	8777.0	8984.7	10637.8	11075.4	11062.2	10785.2	10384.4	10307.8
22.5°	6058.6	6102.8	6082.1	6288.4	6630.2	7836.9	7688.1	7406.7	7275.6	7190.1
25°	3985.5	3969.3	4072.4	4134.3	4427.5	4574.9	5096.4	4991.8	4790.0	4812.1
27.5°	2429.6	2450.2	2488.5	2541.6	2749.3	2702.2	2999.8	3039.6	2974.8	2905.5
30°	1491.1	1505.8	1536.7	1575.0	1647.2	1595.7	1678.2	1821.1	1797.5	1748.9
32.5°	1012.2	1013.7	1035.8	1050.5	1041.7	993.1	1019.6	1155.1	1158.1	1153.7
35°	727.9	727.9	748.5	760.3	735.2	695.4	699.9	783.8	820.7	828.0
37.5°	502.4	503.9	539.3	574.6	546.6	536.3	518.6	574.6	633.6	642.4
40°	381.6	380.1	397.8	424.3	427.3	408.1	414.0	449.4	509.8	517.2
42.5°	309.4	310.9	319.7	316.8	318.3	343.3	352.1	368.3	424.3	437.6
45°	260.8	262.3	266.7	251.9	246.1	284.4	296.2	305.0	352.1	368.3
47.5°	215.1	218.1	222.5	206.3	203.3	228.4	249.0	257.8	299.1	316.8
50°	154.7	157.7	173.9	165.0	173.9	179.8	207.7	221.0	249.0	272.6
52.5°	112.0	114.9	119.3	120.8	142.9	145.9	166.5	187.1	200.4	226.9
55°	88.4	91.3	88.4	85.5	104.6	120.8	128.2	150.3	160.6	191.5
57.5°	50.1	53.0	57.5	66.3	69.2	92.8	100.2	119.3	128.2	157.7
60°	8.8	10.3	16.2	39.8	48.6	58.9	75.1	91.3	103.1	123.8
62.5°	1.5	1.5	2.9	8.8	28.0	41.3	54.5	64.8	75.1	94.3
65°	0.0	0.0	1.5	2.9	7.4	23.6	29.5	38.3	51.6	67.8
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	13.3	23.6	29.5	45.7
70°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	10.3	17.7	28.0
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	8.8	8.8	17.7
75°	0.0	0.0	1.5	2.9	4.4	7.4	8.8	8.8	7.4	7.4
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	5.9	5.9
80°	0.0	0.0	2.9	4.4	7.4	10.3	13.3	10.3	5.9	2.9
82.5°	0.0	0.0	2.9	5.9	7.4	11.8	16.2	13.3	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.8	16.2	11.8	5.9	1.5
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	8.8	7.4	2.9	1.5
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°
46228.9	0°	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9	46228.9
45122.4	2.5°	45381.7	45617.5	45666.1	45601.3	45695.6	45526.1	45396.5	45060.5	44858.7
42261.1	5°	42533.7	42498.3	42744.4	42825.4	42815.1	42685.4	42504.2	42300.9	42103.5
37846.8	7.5°	38082.6	38128.3	38352.2	38495.1	38422.9	38260.9	38135.6	37982.4	37849.8
33046.6	10°	33348.6	33034.8	33313.2	33313.2	33506.3	33048.0	33090.8	32704.7	32722.4
27530.2	12.5°	27624.5	27737.9	27783.6	27914.8	27689.3	27446.2	27148.6	27089.7	26905.5
20575.8	15°	20872.0	21196.1	20917.6	21393.6	21163.7	20910.3	20864.6	20407.9	20552.2
14923.9	17.5°	14850.2	15208.3	15320.3	15592.8	15383.6	15233.3	15043.3	14904.8	14894.5
10447.8	20°	10530.3	10889.8	10972.3	11299.4	11275.8	11228.7	11068.1	10892.7	10702.7
7112.0	22.5°	7219.6	7512.8	7786.8	8227.4	8220.0	8081.5	8065.3	7817.8	7822.2
4804.7	25°	4854.8	5068.4	5133.3	5584.1	5634.2	5619.5	5535.5	5305.7	5392.6
2935.0	27.5°	2937.9	3125.0	3344.6	3503.7	3654.0	3630.4	3546.4	3418.3	3362.3
1763.6	30°	1810.8	1894.8	1975.8	2167.3	2257.2	2304.4	2264.6	2145.2	2154.1
1161.0	32.5°	1186.1	1256.8	1315.7	1436.6	1483.7	1570.6	1554.4	1529.4	1499.9
835.4	35°	864.9	916.4	956.2	1012.2	1072.6	1146.3	1158.1	1147.8	1136.0
645.3	37.5°	660.1	713.1	758.8	782.4	829.5	887.0	919.4	917.9	909.1
526.0	40°	536.3	576.1	617.3	648.3	680.7	723.4	763.2	767.6	767.6
442.0	42.5°	447.9	481.8	523.1	555.5	579.0	618.8	660.1	663.0	660.1
374.2	45°	383.1	412.5	452.3	490.6	509.8	539.3	579.0	587.9	582.0
321.2	47.5°	333.0	359.5	393.4	434.6	455.3	481.8	518.6	528.9	527.5
277.0	50°	285.8	316.8	350.7	384.6	411.1	436.1	471.5	483.3	478.9
235.7	52.5°	251.9	279.9	309.4	346.2	377.2	399.3	427.3	447.9	442.0
198.9	55°	210.7	244.6	275.5	306.5	344.8	368.3	394.9	419.9	414.0
168.0	57.5°	182.7	210.7	246.1	274.0	312.4	340.4	366.9	393.4	391.9
137.0	60°	153.2	182.7	216.6	246.1	281.4	312.4	338.9	368.3	371.3
103.1	62.5°	120.8	156.2	185.6	219.5	254.9	288.8	312.4	341.8	346.2
78.1	65°	91.3	128.2	160.6	193.0	228.4	265.2	285.8	310.9	315.3
57.5	67.5°	67.8	98.7	137.0	166.5	203.3	238.7	257.8	278.5	285.8
35.4	70°	51.6	75.1	114.9	142.9	181.2	209.2	229.8	247.5	253.4
23.6	72.5°	32.4	58.9	92.8	122.3	156.2	181.2	196.0	206.3	215.1
13.3	75°	22.1	45.7	75.1	104.6	129.7	148.8	162.1	170.9	178.3
5.9	77.5°	13.3	35.4	61.9	86.9	103.1	117.9	131.1	137.0	141.4
4.4	80°	7.4	26.5	51.6	70.7	81.0	91.3	101.7	109.0	112.0
2.9	82.5°	4.4	20.6	41.3	54.5	58.9	69.2	79.6	84.0	84.0
1.5	85°	2.9	14.7	28.0	39.8	42.7	50.1	53.0	56.0	58.9
1.5	87.5°	2.9	8.8	17.7	22.1	23.6	26.5	28.0	30.9	33.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
46228.9
44709.9
41882.4
37400.4
32550.0
26737.5
20407.9
14620.4
10620.2
7736.7
5255.6
3313.6
2115.8
1489.6
1131.6
904.7
758.8
657.1
582.0
524.5
475.9
440.5
417.0
393.4
372.8
349.2
319.7
288.8
256.4
213.6
176.8
140.0
109.0
82.5
57.5
32.4
0.0

(END OF REPORT)