

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: P637235

Luminaire Tested: **IFLD-S-SA3A-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637235  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10872.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

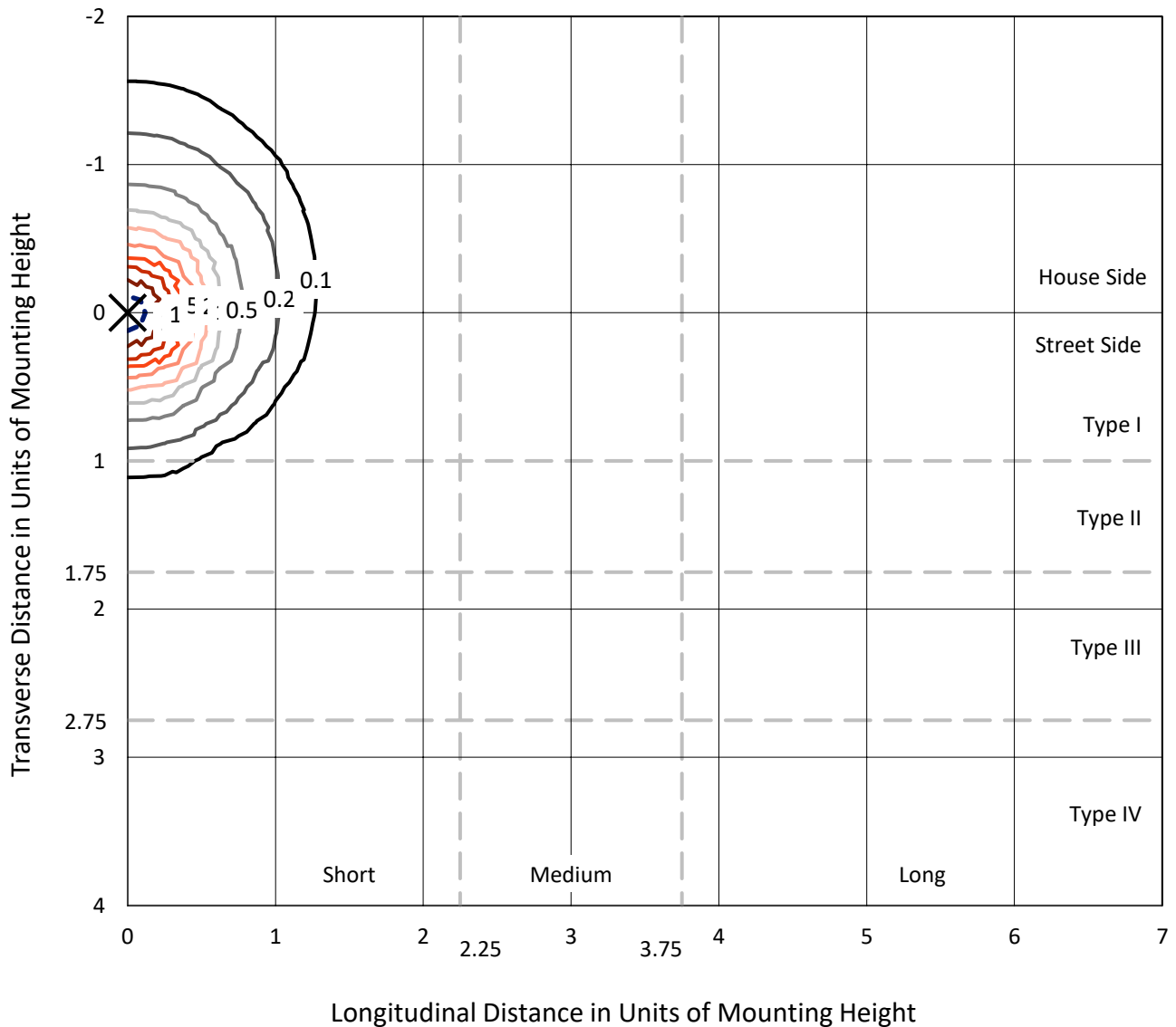
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

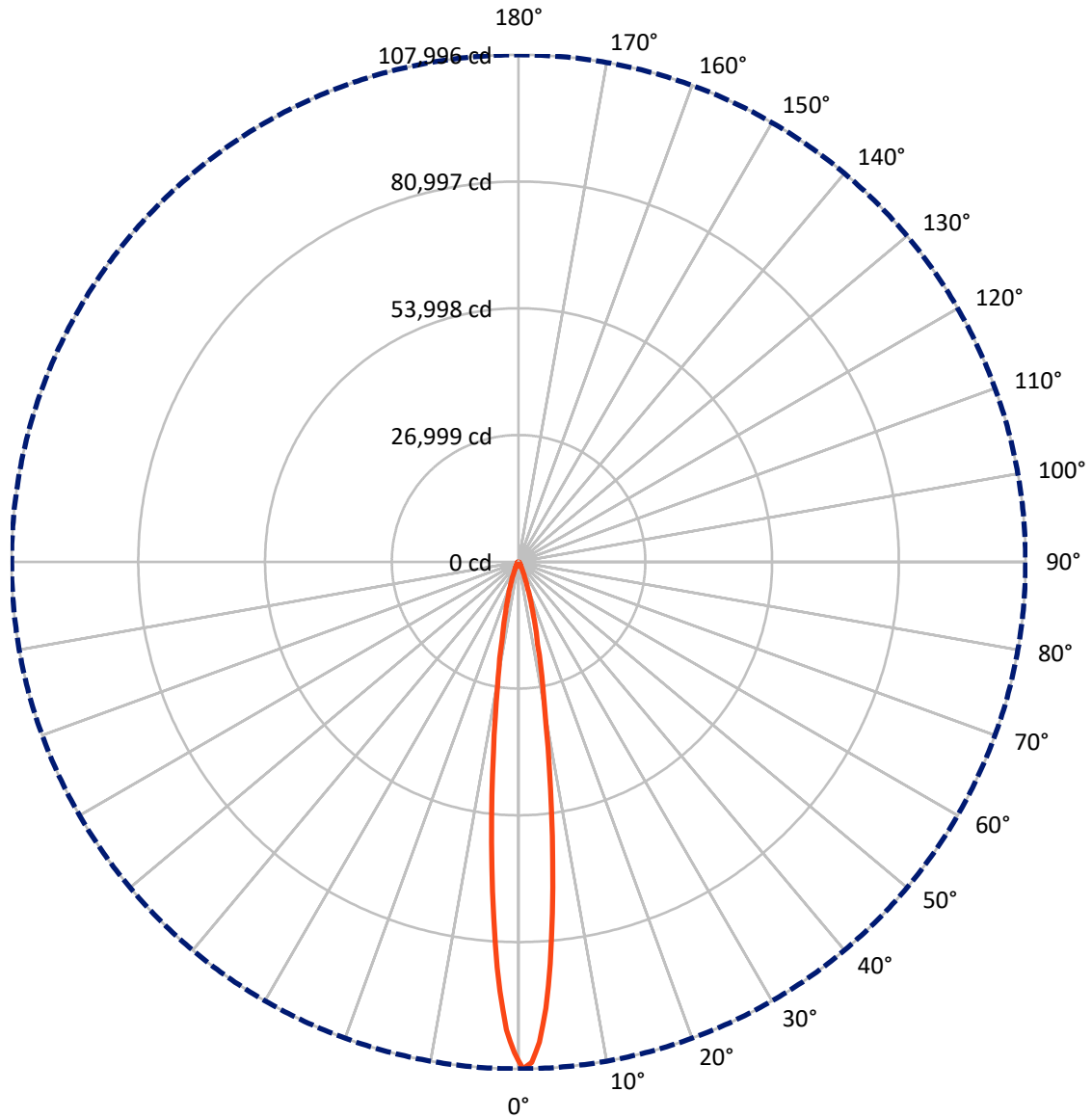
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 270 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	5568.5	0.0	5568.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	5303.7	0.0	5303.7
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	10872.2	0.0	10872.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5488.6	50.5
10°-20°	3513.8	32.3
20°-30°	1056.2	9.7
30°-40°	343.9	3.2
40°-50°	200.1	1.8
50°-60°	132.9	1.2
60°-70°	80.0	0.7
70°-80°	41.1	0.4
80°-90°	15.6	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°	10872.2	100.0
0°-180°	10872.2	100.0

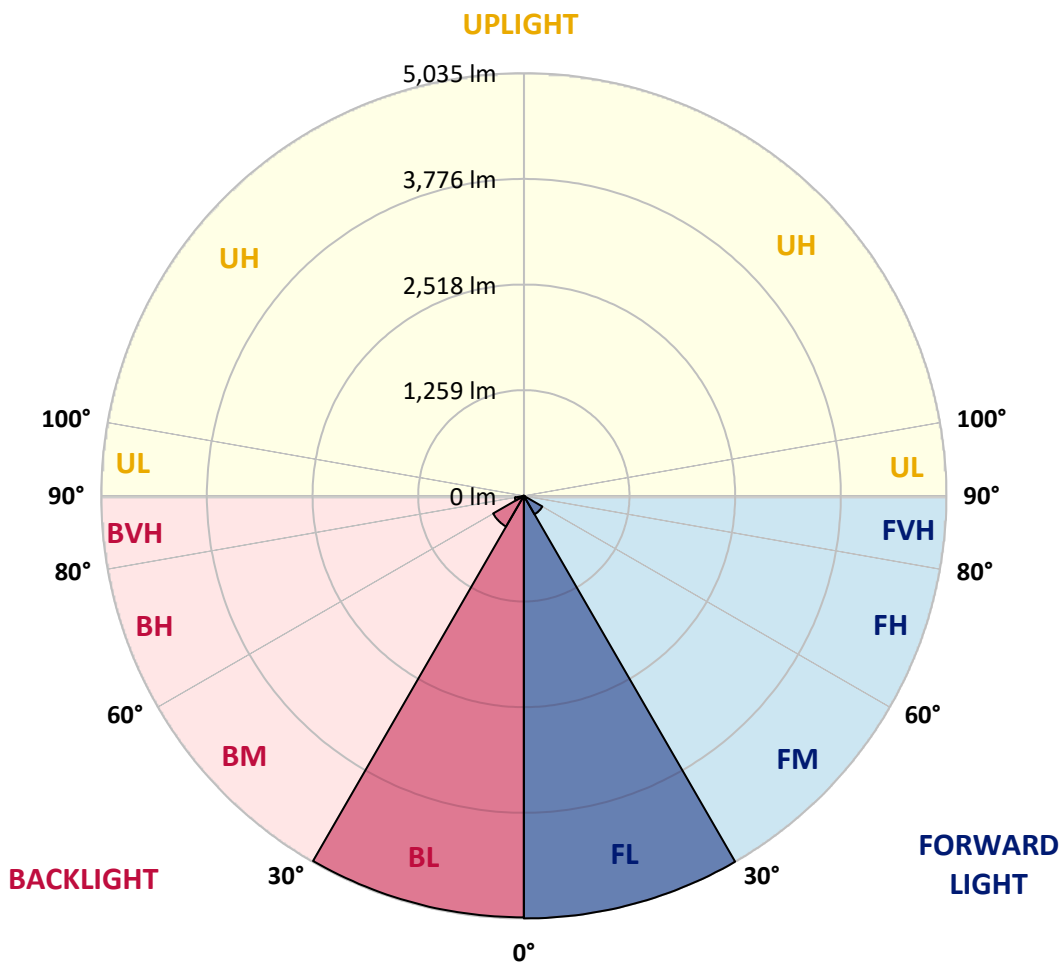


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5035.3	46.3			
FM (30°-60°)	254.1	2.3			
FH (60°-80°)	12.0	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5023.3	46.2	B5		
BM (30°-60°)	422.8	3.9	B1/1000		
BH (60°-80°)	109.2	1.0	B0/110		G0/660
BVH (80°-90°)	13.3	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°	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2
1°	106703.1	106377.4	105536.7	106134.7	106660.4	106507.7	106497.0	106440.2	106360.8	106983.7
2°	102437.7	102226.9	100983.6	101496.3	102243.5	101698.8	102039.9	101740.3	101746.2	102489.8
3°	95247.5	95362.4	93378.9	94310.9	95349.4	94029.0	94438.8	95208.5	94402.0	94159.3
4°	85902.2	84905.1	83821.6	84768.9	85037.7	84269.2	85024.7	85967.3	84847.1	84896.8
5°	75232.9	74496.4	73214.0	73798.9	73132.3	73375.0	74507.1	74895.5	74113.9	73129.9
6°	64262.9	63739.5	62136.2	62979.3	62742.5	62605.1	64034.4	62850.2	63276.5	62680.9
7°	53454.0	52475.8	51688.4	52496.0	52548.1	52134.8	53990.4	53774.9	52999.2	52819.2
8°	44287.4	43311.7	42645.0	43246.5	43639.7	42990.8	43863.5	44436.6	43830.3	43884.8
9°	35720.0	35548.3	34621.2	35407.4	35834.9	35139.8	36106.1	36313.3	35746.1	36022.0
10°	29329.2	29129.0	28388.9	28707.5	29415.6	28586.7	29513.9	29581.4	29129.0	29258.1
12.5°	18124.7	18044.2	18024.0	18070.2	18060.7	18207.6	18444.4	18174.4	18138.9	17692.5
15°	11714.8	11834.4	11711.3	11948.1	11982.5	12121.0	11976.5	11758.7	11343.0	11137.0
17.5°	7311.0	7463.7	7674.5	8021.5	8368.4	8408.7	8216.9	7961.1	7759.8	7539.5
20°	4206.1	4280.7	4248.7	4664.4	5562.0	5805.9	5558.4	5289.6	5046.9	4824.2
22.5°	2613.4	2586.2	2635.9	2775.7	3068.1	3822.5	3620.0	3351.2	3174.7	2991.2
25°	1602.2	1631.8	1612.8	1689.8	1821.2	2141.0	2187.1	2071.1	1981.1	1886.4
27.5°	1031.4	1031.4	1039.7	1082.3	1172.3	1161.7	1408.0	1318.0	1269.4	1223.2
30°	716.4	718.8	718.8	743.6	763.8	728.3	792.2	908.2	885.7	850.2
32.5°	531.7	538.8	544.7	557.7	541.2	503.3	518.7	653.7	640.6	627.6
35°	405.0	410.9	425.1	432.2	408.5	384.9	370.6	480.8	486.7	483.1
37.5°	294.9	298.4	324.5	351.7	324.5	303.1	294.9	369.5	397.9	394.3
40°	226.2	227.4	232.1	262.9	262.9	246.3	248.7	275.9	325.6	325.6
42.5°	194.2	194.2	198.9	194.2	195.4	213.1	219.1	222.6	275.9	275.9
45°	168.2	168.2	170.5	158.7	146.8	183.5	188.3	189.5	232.1	238.0
47.5°	140.9	140.9	145.7	130.3	124.3	145.7	158.7	162.2	200.1	204.9
50°	104.2	105.4	119.6	106.6	110.1	112.5	137.4	139.7	169.3	180.0
52.5°	69.9	69.9	72.2	82.9	95.9	92.4	111.3	119.6	135.0	149.2
55°	56.8	56.8	55.7	53.3	71.0	77.0	81.7	99.5	110.1	127.9
57.5°	39.1	41.4	37.9	43.8	46.2	58.0	61.6	78.2	84.1	107.8
60°	4.7	5.9	8.3	32.0	30.8	39.1	46.2	61.6	68.7	82.9
62.5°	1.2	1.2	2.4	5.9	21.3	26.1	36.7	42.6	49.7	63.9
65°	0.0	0.0	1.2	2.4	4.7	14.2	18.9	24.9	35.5	45.0
67.5°	0.0	0.0	1.2	2.4	2.4	5.9	9.5	15.4	18.9	33.2
70°	0.0	0.0	1.2	2.4	2.4	4.7	5.9	7.1	13.0	17.8
72.5°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	5.9	5.9	11.8
75°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	5.9	4.7	4.7
77.5°	0.0	0.0	1.2	2.4	4.7	5.9	7.1	5.9	3.6	3.6
80°	0.0	0.0	1.2	3.6	5.9	8.3	9.5	7.1	3.6	2.4
82.5°	0.0	0.0	2.4	4.7	7.1	9.5	13.0	10.7	4.7	2.4
85°	0.0	0.0	1.2	3.6	7.1	9.5	18.9	13.0	5.9	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	7.1	4.7	2.4	1.2
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°
107996.2	0°	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2	107996.2
106264.9	1°	107007.4	107082.0	106838.0	107215.8	107083.2	106306.4	106049.4	105745.1
102052.9	2°	101740.3	102120.4	102139.3	102558.5	102552.6	101646.7	101366.1	101883.5
94651.9	3°	94365.3	94808.2	94409.2	95154.0	94930.2	93831.3	93545.9	94133.2
85290.0	4°	85035.4	84951.3	84813.9	84390.0	84912.2	84162.7	83597.8	84394.8
74434.8	5°	74285.6	74098.5	73830.9	73705.4	74093.8	73614.2	72452.5	73616.6
63758.5	6°	63836.6	63031.4	62992.3	62922.5	62961.5	61618.7	61699.2	62566.0
52199.9	7°	52751.8	52899.8	52597.8	53082.1	52712.7	51803.2	51452.7	52365.7
44124.0	8°	43816.1	43629.0	43398.1	44121.6	43481.0	42884.2	42475.7	43196.8
36067.0	9°	35999.5	35676.2	35441.8	35405.1	35504.5	34384.3	34611.7	35157.6
29329.2	10°	29339.8	28809.3	28938.4	28972.7	28863.8	28129.6	28136.7	28325.0
17988.5	12.5°	17924.6	17664.0	17729.2	17764.7	17986.1	17728.0	17363.3	17100.4
11341.8	15°	11266.1	11079.0	11461.4	11718.4	11666.3	11436.6	11264.9	11026.9
7539.5	17.5°	7469.7	7714.8	7716.0	7950.4	7974.1	7744.4	7611.8	7397.4
4903.6	20°	4885.8	4987.7	5199.6	5365.4	5461.3	5286.1	5127.4	4980.6
3057.5	22.5°	3057.5	3235.1	3367.7	3583.3	3670.9	3543.0	3430.5	3310.9
1908.9	25°	1876.9	2003.6	2113.7	2300.8	2420.4	2358.8	2255.8	2171.7
1232.7	27.5°	1251.7	1304.9	1359.4	1488.5	1612.8	1578.5	1537.0	1486.1
869.2	30°	882.2	886.9	945.0	1017.2	1100.1	1121.4	1102.4	1076.4
638.3	32.5°	650.1	669.0	696.3	741.3	796.9	847.9	838.4	826.5
487.9	35°	502.1	530.5	553.0	587.3	616.9	665.5	673.8	670.2
401.4	37.5°	409.7	434.6	457.1	477.2	502.1	535.2	561.3	562.5
331.6	40°	339.9	362.4	392.0	407.3	425.1	450.0	482.0	484.3
280.6	42.5°	286.6	307.9	337.5	356.4	369.5	393.1	425.1	429.8
240.4	45°	246.3	259.3	290.1	312.6	325.6	341.0	375.4	380.1
207.2	47.5°	214.3	227.4	246.3	278.3	290.1	304.3	331.6	339.9
183.5	50°	188.3	201.3	217.9	246.3	264.1	275.9	298.4	310.2
159.9	52.5°	167.0	180.0	197.8	220.3	240.4	251.0	272.4	287.7
130.3	55°	139.7	162.2	175.3	195.4	222.6	232.1	248.7	268.8
113.7	57.5°	122.0	140.9	159.9	176.4	203.7	215.5	232.1	251.0
90.0	60°	103.0	120.8	143.3	157.5	183.5	198.9	216.7	234.5
68.7	62.5°	81.7	105.4	120.8	140.9	165.8	185.9	200.1	217.9
53.3	65°	60.4	86.4	104.2	125.5	149.2	170.5	182.4	201.3
37.9	67.5°	43.8	67.5	88.8	108.9	131.4	152.8	164.6	181.2
23.7	70°	34.3	49.7	73.4	91.2	114.9	132.6	145.7	156.3
15.4	72.5°	20.1	37.9	59.2	79.3	100.7	112.5	122.0	131.4
7.1	75°	13.0	29.6	48.6	66.3	81.7	92.4	100.7	108.9
3.6	77.5°	8.3	21.3	39.1	55.7	62.8	75.8	82.9	87.6
2.4	80°	4.7	16.6	34.3	45.0	50.9	59.2	66.3	72.2
2.4	82.5°	3.6	14.2	28.4	37.9	37.9	47.4	50.9	50.9
1.2	85°	2.4	11.8	22.5	35.5	28.4	35.5	33.2	33.2
1.2	87.5°	2.4	8.3	10.7	15.4	13.0	15.4	15.4	17.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
107996.2  
104539.6  
99691.7  
91524.6  
81510.1  
70549.6  
60053.3  
49882.5  
41137.6  
33452.4  
27043.7  
16940.5  
10904.9  
7344.1  
4929.6  
3247.0  
2123.2  
1456.5  
1058.6  
817.1  
658.4  
554.2  
480.8  
426.3  
378.9  
341.0  
311.4  
287.7  
270.0  
252.2  
239.2  
226.2  
204.9  
182.4  
159.9  
133.8  
108.9  
85.3  
65.1  
47.4  
32.0  
17.8  
0.0

(END OF REPORT)