

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: P637398

Luminaire Tested: **IFLD-L-SA7D-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637398  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47046.6 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

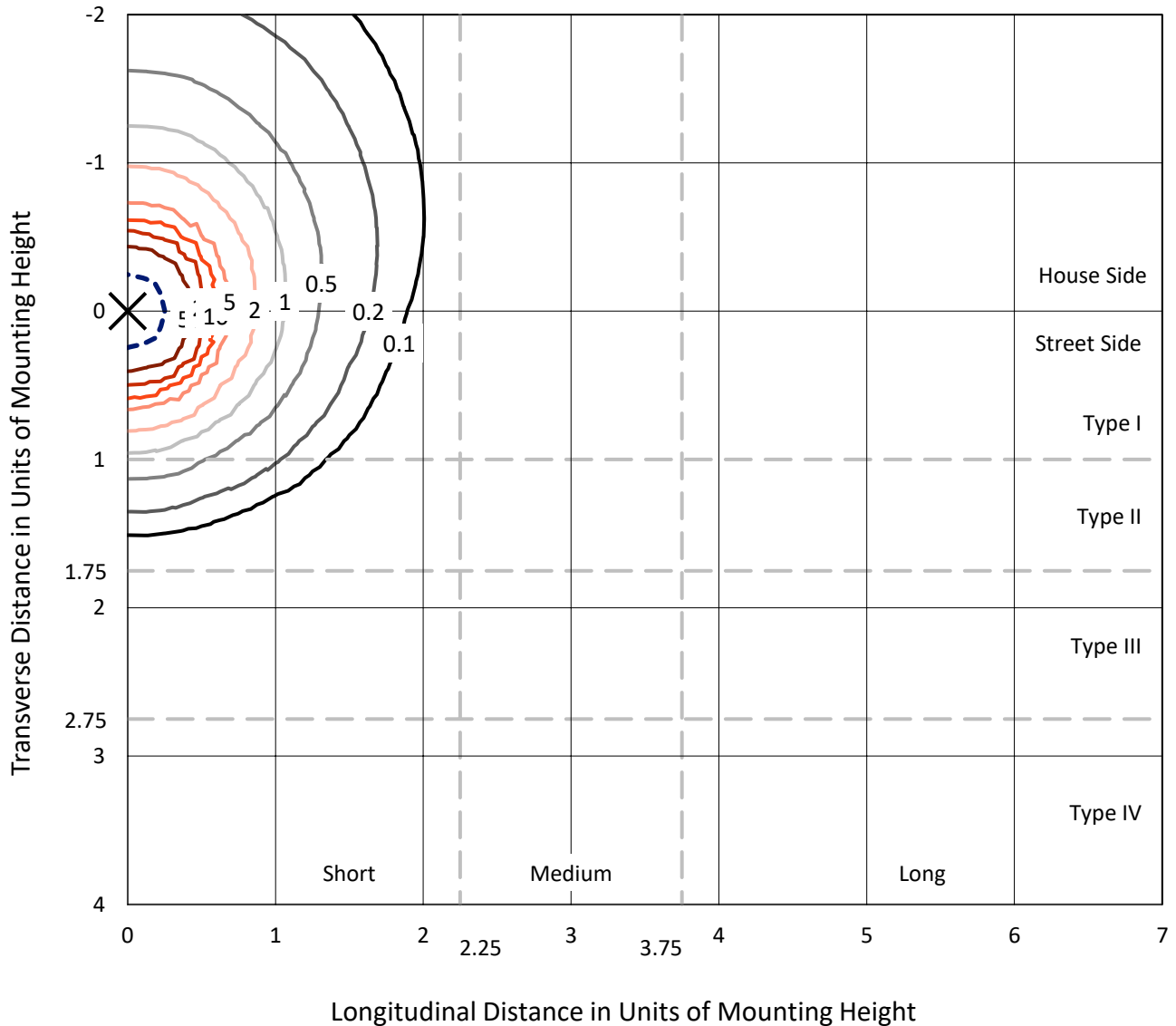
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

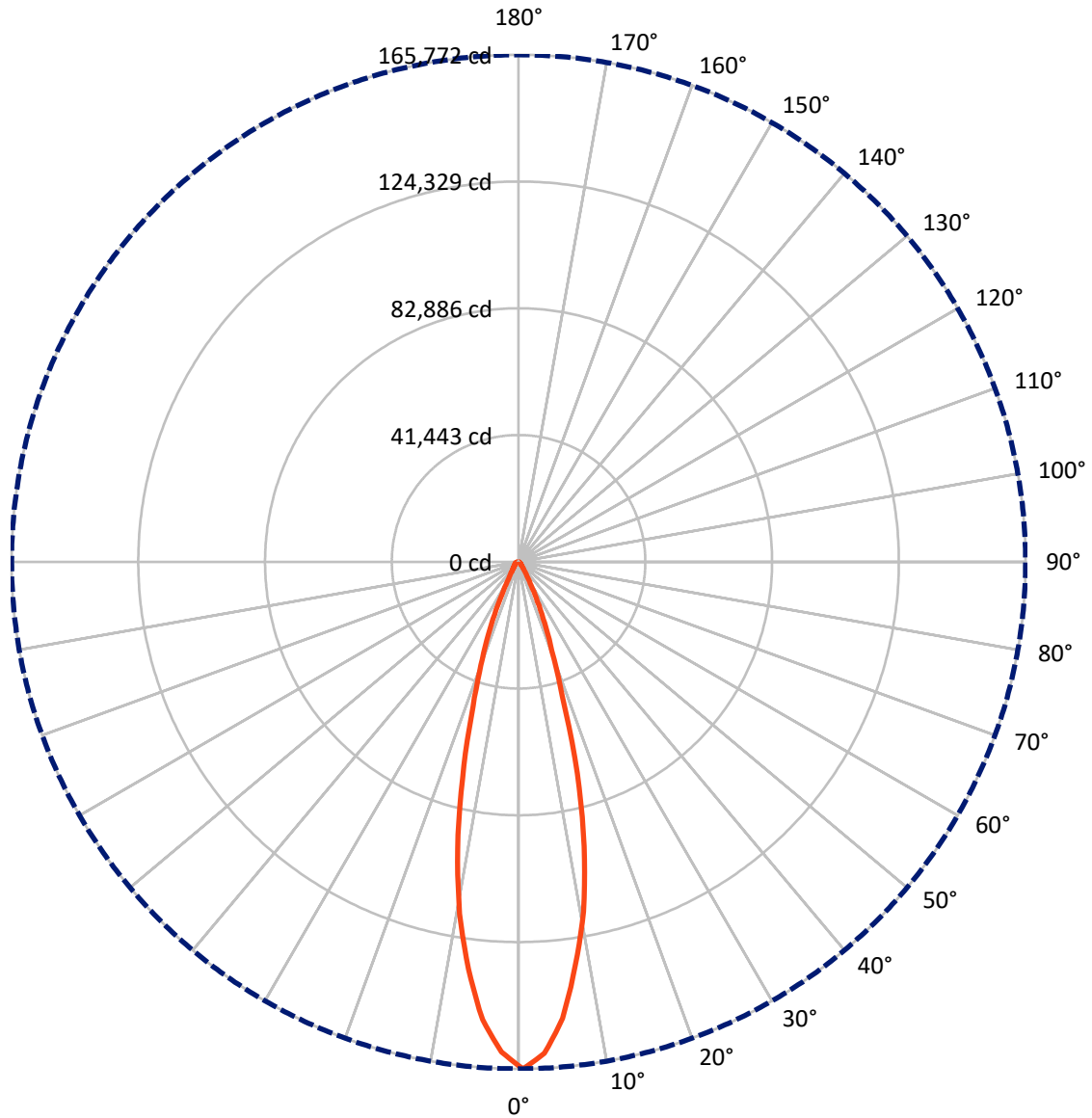
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 414.4 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	24806.1	0.0	24806.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	22240.5	0.0	22240.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	47046.6	0.0	47046.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13379.3	28.4
10°-20°	20262.8	43.1
20°-30°	8551.0	18.2
30°-40°	2230.2	4.7
40°-50°	1128.0	2.4
50°-60°	737.3	1.6
60°-70°	441.7	0.9
70°-80°	232.4	0.5
80°-90°	83.9	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°	47046.6	100.0
0°-180°	47046.6	100.0

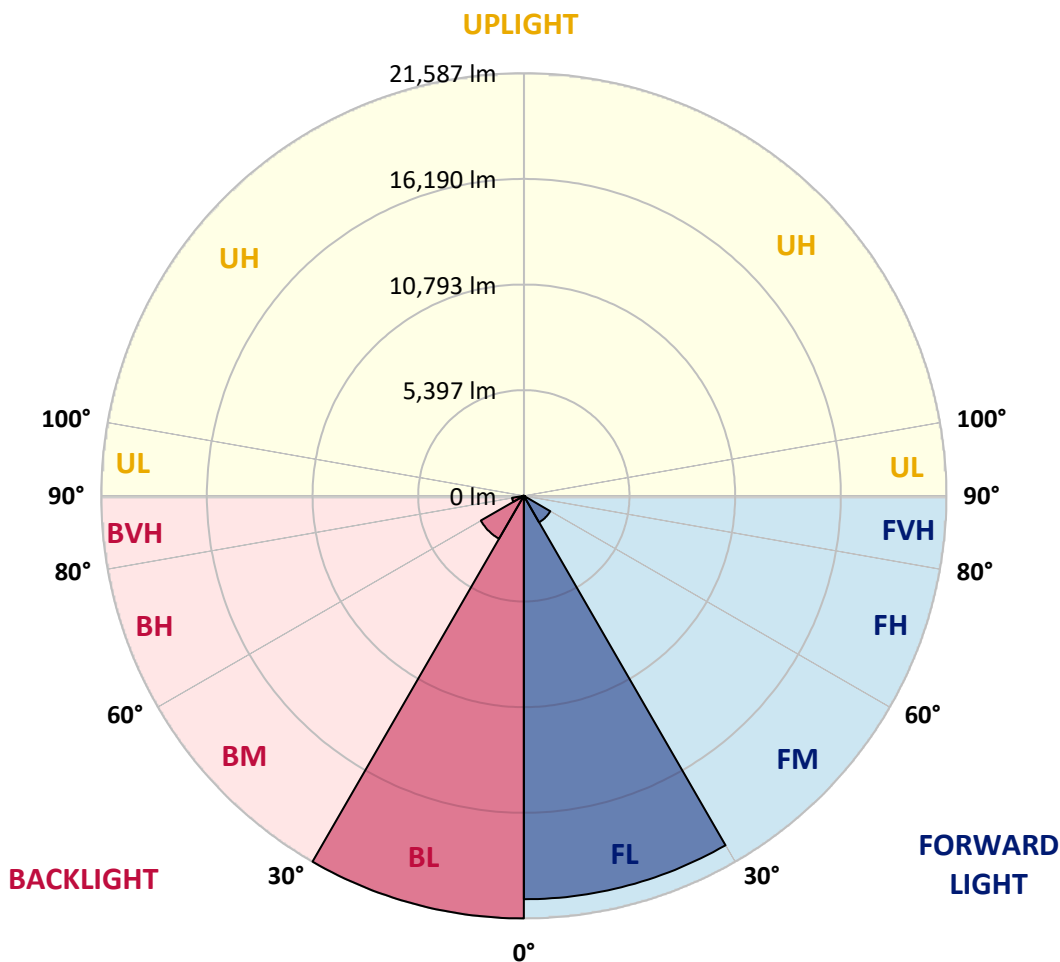


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20606.1	43.8			
FM (30°-60°)	1560.5	3.3			
FH (60°-80°)	63.6	0.1			G0/660
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	21587.0	45.9	B5		
BM (30°-60°)	2534.9	5.4	B3/5000		
BH (60°-80°)	610.5	1.3	B2/1000		G0/660
BVH (80°-90°)	73.7	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8
2.5°	160942.8	161032.6	160699.8	161418.3	160858.3	162358.7	161613.8	162776.1	162385.2	163035.0
5°	149953.3	149805.4	149710.3	150825.1	150502.8	152114.2	151084.0	150745.8	151792.0	151601.8
7.5°	133358.2	133749.2	133527.3	133817.8	133981.6	135820.3	136401.4	135947.1	135962.9	136227.1
10°	116345.7	115769.8	114950.8	115495.0	116646.8	117449.9	117127.6	117793.3	117645.4	118274.1
12.5°	95412.8	95867.2	95407.6	94921.5	96934.5	96712.6	97272.6	97637.2	96723.1	98757.2
15°	71870.0	72107.8	72667.8	72630.8	74178.9	74490.6	74416.6	74802.3	74089.1	74427.2
17.5°	46171.6	46974.7	48480.4	51027.0	53890.6	54223.5	54139.0	53822.0	53478.5	53098.1
20°	31013.5	30929.0	31473.2	32218.1	38146.1	39715.3	39667.7	38674.5	37237.4	36962.6
22.5°	21725.3	21883.8	21809.9	22549.5	23775.3	28102.4	27568.8	26559.6	26089.4	25783.0
25°	14291.6	14233.5	14603.3	14825.2	15876.6	16404.9	18275.3	17900.1	17176.3	17255.6
27.5°	8712.3	8786.3	8923.7	9113.9	9858.8	9689.7	10757.0	10899.6	10667.2	10418.9
30°	5346.8	5399.6	5510.6	5647.9	5906.8	5721.9	6017.8	6530.3	6445.7	6271.4
32.5°	3629.7	3635.0	3714.2	3767.1	3735.4	3561.0	3656.1	4142.2	4152.7	4136.9
35°	2610.0	2610.0	2684.0	2726.2	2636.4	2493.8	2509.6	2810.8	2942.9	2969.3
37.5°	1801.6	1806.9	1933.7	2060.5	1960.1	1923.2	1859.8	2060.5	2271.9	2303.6
40°	1368.4	1363.1	1426.5	1521.6	1532.2	1463.5	1484.6	1611.4	1828.1	1854.5
42.5°	1109.5	1114.8	1146.5	1135.9	1141.2	1231.0	1262.7	1320.8	1521.6	1569.2
45°	935.2	940.4	956.3	903.5	882.3	1019.7	1062.0	1093.7	1262.7	1320.8
47.5°	771.4	781.9	797.8	739.7	729.1	818.9	892.9	924.6	1072.5	1135.9
50°	554.8	565.3	623.4	591.7	623.4	644.6	745.0	792.5	892.9	977.4
52.5°	401.5	412.1	428.0	433.2	512.5	523.1	597.0	671.0	718.5	813.6
55°	317.0	327.6	317.0	306.4	375.1	433.2	459.7	538.9	575.9	686.8
57.5°	179.6	190.2	206.1	237.8	248.3	332.9	359.3	428.0	459.7	565.3
60°	31.7	37.0	58.1	142.7	174.4	211.3	269.5	327.6	369.8	443.8
62.5°	5.3	5.3	10.6	31.7	100.4	147.9	195.5	232.5	269.5	338.1
65°	0.0	0.0	5.3	10.6	26.4	84.5	105.7	137.4	184.9	243.0
67.5°	0.0	0.0	5.3	10.6	15.9	31.7	47.6	84.5	105.7	163.8
70°	0.0	0.0	5.3	10.6	15.9	21.1	26.4	37.0	63.4	100.4
72.5°	0.0	0.0	5.3	10.6	15.9	21.1	26.4	31.7	31.7	63.4
75°	0.0	0.0	5.3	10.6	15.9	26.4	31.7	31.7	26.4	26.4
77.5°	0.0	0.0	5.3	10.6	21.1	31.7	37.0	31.7	21.1	21.1
80°	0.0	0.0	10.6	15.9	26.4	37.0	47.6	37.0	21.1	10.6
82.5°	0.0	0.0	10.6	21.1	26.4	42.3	58.1	47.6	21.1	10.6
85°	0.0	0.0	5.3	15.9	31.7	42.3	58.1	42.3	21.1	5.3
87.5°	0.0	0.0	5.3	5.3	10.6	15.9	31.7	26.4	10.6	5.3
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°
165771.8	0°	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8	165771.8
161804.0	2.5°	162733.9	163579.2	163753.6	163521.1	163859.2	163251.6	162786.7	161582.1	160858.3
151543.6	5°	152521.1	152394.3	153276.6	153567.2	153530.2	153065.3	152415.4	151686.3	150978.3
135714.6	7.5°	136559.9	136723.7	137526.8	138039.3	137780.4	137199.2	136750.1	136200.7	135725.2
118501.3	10°	119584.4	118459.0	119457.6	119457.6	120149.7	118506.6	118659.8	117275.5	117338.9
98720.2	12.5°	99058.4	99465.2	99629.0	100099.2	99290.9	98419.1	97351.8	97140.5	96480.1
73782.6	15°	74844.6	76006.9	75008.4	76714.9	75890.7	74982.0	74818.2	73180.3	73698.1
53515.5	17.5°	53251.3	54535.2	54936.7	55914.2	55163.9	54625.0	53943.5	53446.8	53409.8
37464.6	20°	37760.4	39049.6	39345.4	40518.4	40433.8	40264.8	39688.9	39060.1	38378.6
25503.0	22.5°	25888.6	26940.0	27922.7	29502.5	29476.1	28979.4	28921.3	28033.7	28049.5
17229.2	25°	17408.8	18174.9	18407.4	20024.1	20203.7	20150.9	19849.7	19025.5	19337.2
10524.5	27.5°	10535.1	11206.1	11993.3	12563.9	13102.8	13018.3	12717.1	12257.5	12056.7
6324.2	30°	6493.3	6794.4	7085.0	7771.9	8094.2	8263.2	8120.6	7692.6	7724.3
4163.3	32.5°	4253.1	4506.7	4718.1	5151.3	5320.4	5632.1	5574.0	5484.2	5378.5
2995.7	35°	3101.4	3286.3	3428.9	3629.7	3846.3	4110.5	4152.7	4115.8	4073.5
2314.1	37.5°	2367.0	2557.2	2720.9	2805.5	2974.6	3180.6	3296.8	3291.6	3259.9
1886.2	40°	1923.2	2065.8	2213.7	2324.7	2440.9	2594.1	2736.8	2752.6	2752.6
1585.0	42.5°	1606.2	1727.7	1875.6	1991.8	2076.4	2219.0	2367.0	2377.5	2367.0
1342.0	45°	1373.7	1479.4	1622.0	1759.4	1828.1	1933.7	2076.4	2108.1	2086.9
1151.8	47.5°	1194.0	1289.1	1410.7	1558.6	1632.6	1727.7	1859.8	1896.7	1891.5
993.3	50°	1025.0	1135.9	1257.4	1379.0	1474.1	1563.9	1690.7	1733.0	1717.1
845.3	52.5°	903.5	1003.8	1109.5	1241.6	1352.5	1431.8	1532.2	1606.2	1585.0
713.3	55°	755.5	877.0	988.0	1098.9	1236.3	1320.8	1416.0	1505.8	1484.6
602.3	57.5°	655.1	755.5	882.3	982.7	1120.1	1220.5	1315.6	1410.7	1405.4
491.4	60°	549.5	655.1	776.7	882.3	1009.1	1120.1	1215.2	1320.8	1331.4
369.8	62.5°	433.2	560.0	665.7	787.2	914.0	1035.5	1120.1	1225.7	1241.6
280.0	65°	327.6	459.7	575.9	692.1	818.9	951.0	1025.0	1114.8	1130.6
206.1	67.5°	243.0	354.0	491.4	597.0	729.1	855.9	924.6	998.6	1025.0
126.8	70°	184.9	269.5	412.1	512.5	649.9	750.2	824.2	887.6	908.7
84.5	72.5°	116.2	211.3	332.9	438.5	560.0	649.9	702.7	739.7	771.4
47.6	75°	79.3	163.8	269.5	375.1	464.9	533.6	581.2	612.9	639.3
21.1	77.5°	47.6	126.8	221.9	311.7	369.8	422.7	470.2	491.4	507.2
15.9	80°	26.4	95.1	184.9	253.6	290.6	327.6	364.6	391.0	401.5
10.6	82.5°	15.9	74.0	147.9	195.5	211.3	248.3	285.3	301.2	301.2
5.3	85°	10.6	52.8	100.4	142.7	153.2	179.6	190.2	200.8	211.3
5.3	87.5°	10.6	31.7	63.4	79.3	84.5	95.1	100.4	111.0	121.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
165771.8  
160324.6  
150185.8  
134113.7  
116720.8  
95877.8  
73180.3  
52427.1  
38082.7  
27743.1  
18845.9  
11882.4  
7587.0  
5341.5  
4057.6  
3244.0  
2720.9  
2356.4  
2086.9  
1880.9  
1706.5  
1579.7  
1495.2  
1410.7  
1336.7  
1252.2  
1146.5  
1035.5  
919.3  
766.1  
634.0  
501.9  
391.0  
295.9  
206.1  
116.2  
0.0

(END OF REPORT)