

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: P637046

Luminaire Tested: **IFLD-M-SA4E-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637046  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-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: 30110.8 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

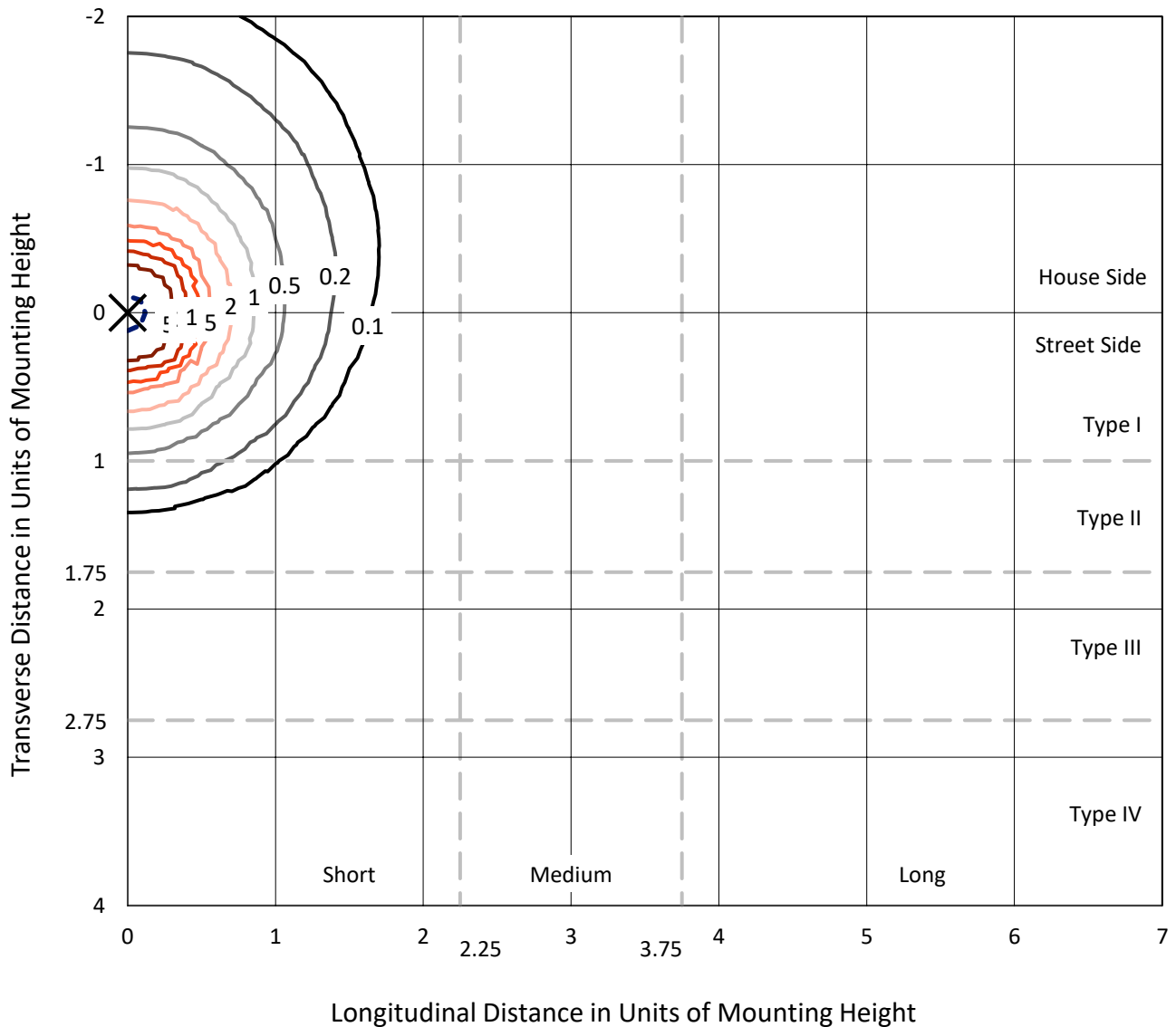
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

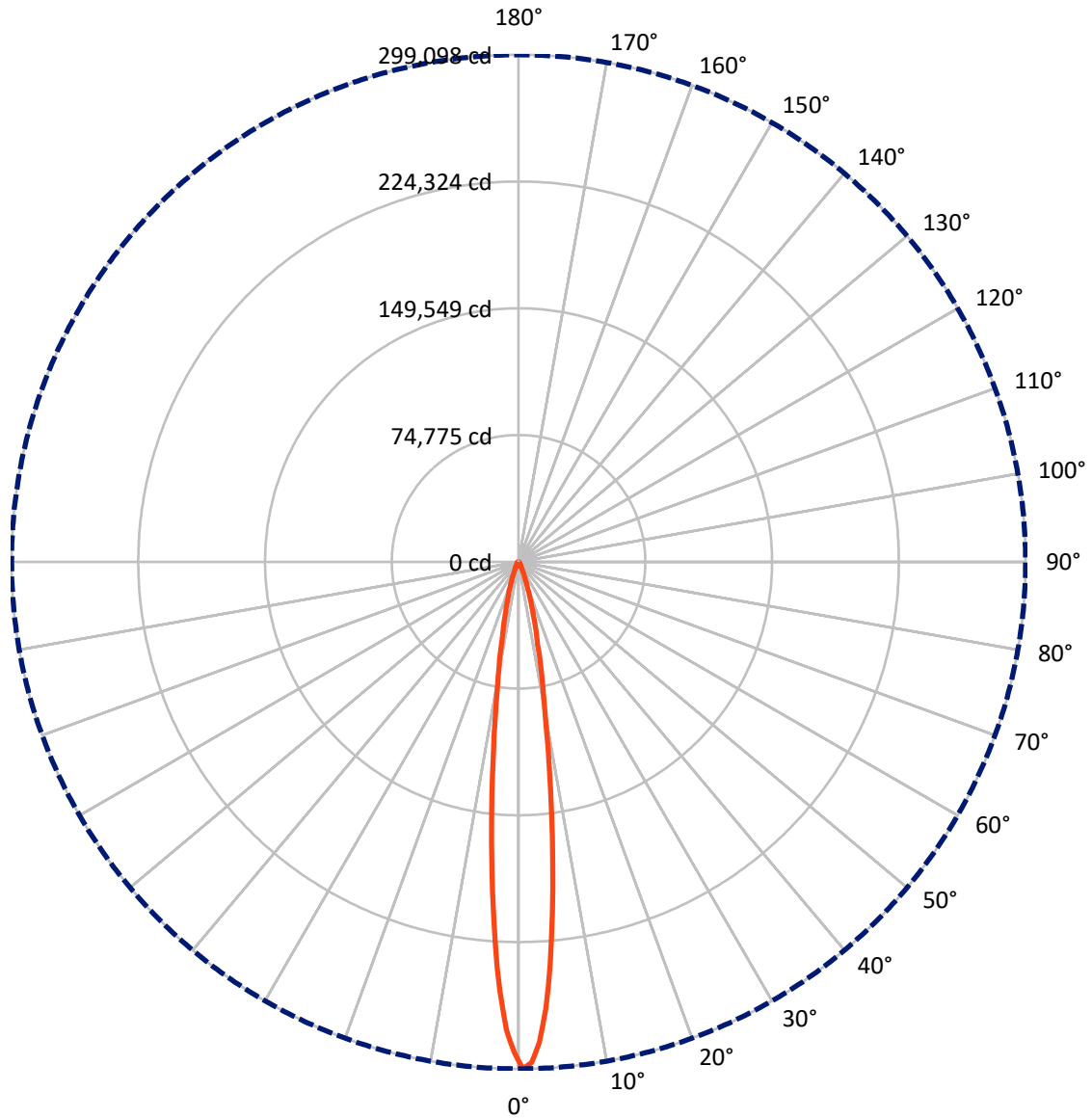
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 747.7 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	15422.2	0.0	15422.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	14688.6	0.0	14688.6
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	30110.8	0.0	30110.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15200.8	50.5
10°-20°	9731.5	32.3
20°-30°	2925.1	9.7
30°-40°	952.4	3.2
40°-50°	554.1	1.8
50°-60°	368.1	1.2
60°-70°	221.6	0.7
70°-80°	113.9	0.4
80°-90°	43.3	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°	30110.8	100.0
0°-180°	30110.8	100.0

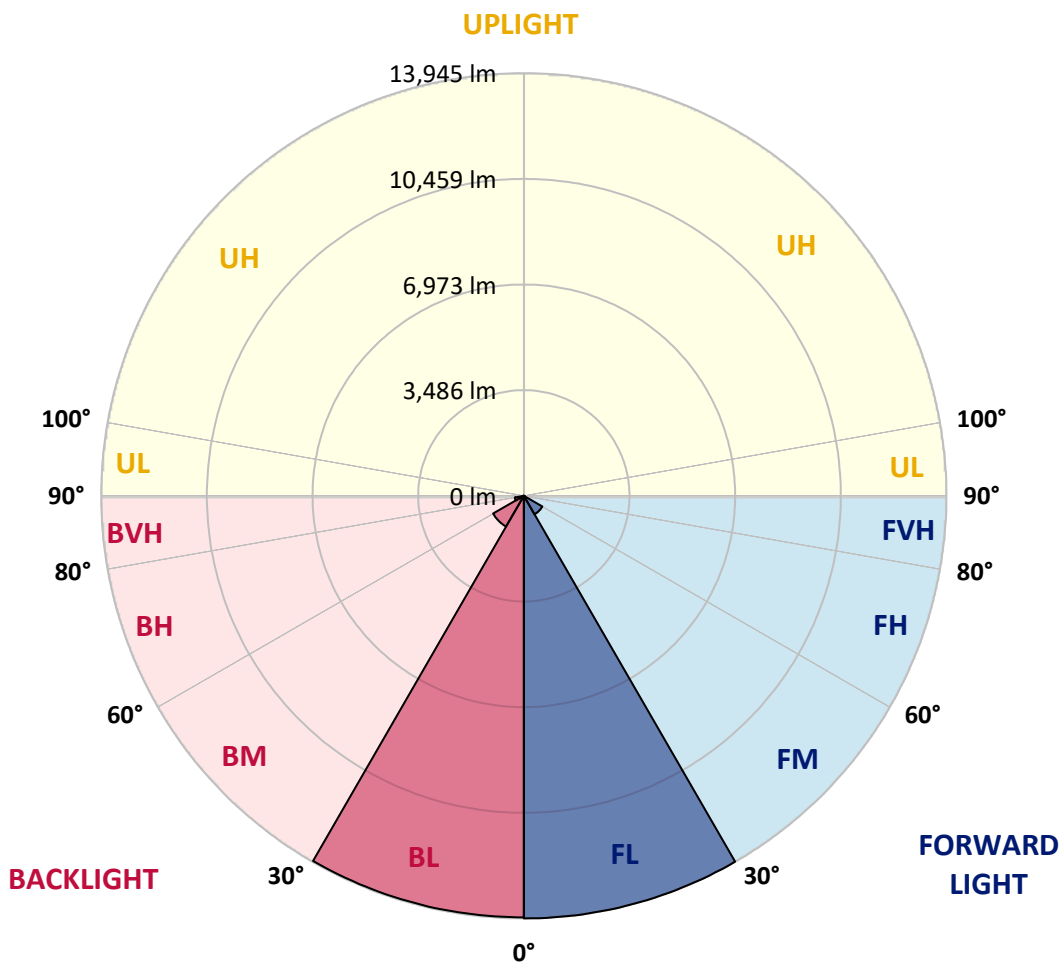


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13945.3	46.3			
FM (30°-60°)	703.7	2.3			
FH (60°-80°)	33.1	0.1			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	13912.2	46.2	B5		
BM (30°-60°)	1170.9	3.9	B2/2500		
BH (60°-80°)	302.3	1.0	B1/500		G0/660
BVH (80°-90°)	36.7	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°	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0
1°	295516.8	294614.9	292286.4	293942.6	295398.7	294975.7	294946.1	294788.7	294569.0	296294.0
2°	283703.8	283120.1	279676.6	281096.6	283166.0	281657.4	282601.9	281772.2	281788.6	283848.1
3°	263790.4	264108.5	258615.3	261196.3	264072.5	260415.8	261550.5	263682.2	261448.8	260776.5
4°	237908.2	235146.9	232146.1	234769.7	235514.2	233385.7	235478.1	238088.6	234986.2	235123.9
5°	208359.5	206319.6	202767.9	204388.0	202541.6	203213.9	206349.2	207424.8	205260.3	202535.0
6°	177977.8	176528.2	172087.7	174422.8	173766.8	173386.4	177344.8	174065.3	175245.9	173596.3
7°	148042.1	145333.2	143152.3	145388.9	145533.2	144388.7	149527.7	148930.8	146782.7	146284.2
8°	122655.1	119952.7	118106.4	119772.4	120861.2	119064.0	121481.0	123068.3	121389.2	121540.0
9°	98927.6	98452.0	95884.1	98061.8	99245.7	97320.6	99996.7	100570.6	98999.7	99763.8
10°	81227.8	80673.6	78623.9	79506.1	81467.2	79171.6	81739.5	81926.4	80673.6	81031.1
12.5°	50196.8	49973.8	49918.0	50045.9	50019.7	50426.3	51082.2	50334.5	50236.1	48999.7
15°	32444.6	32775.8	32434.7	33090.6	33185.7	33569.5	33169.3	32565.9	31414.8	30844.1
17.5°	20247.9	20671.0	21254.7	22215.7	23176.6	23288.1	22756.8	22048.4	21490.9	20880.9
20°	11649.0	11855.6	11767.0	12918.1	15404.0	16079.6	15394.2	14649.7	13977.4	13360.9
22.5°	7238.0	7162.5	7300.3	7687.3	8497.3	10586.4	10025.6	9281.1	8792.5	8284.1
25°	4437.2	4519.2	4466.7	4679.9	5043.9	5929.4	6057.3	5735.9	5486.7	5224.3
27.5°	2856.5	2856.5	2879.4	2997.5	3246.8	3217.2	3899.4	3650.1	3515.7	3387.8
30°	1984.1	1990.7	1990.7	2059.6	2115.3	2016.9	2194.0	2515.4	2453.1	2354.7
32.5°	1472.5	1492.2	1508.6	1544.7	1498.8	1393.8	1436.4	1810.3	1774.2	1738.2
35°	1121.6	1138.0	1177.4	1197.0	1131.4	1065.9	1026.5	1331.5	1347.9	1338.1
37.5°	816.6	826.4	898.6	974.0	898.6	839.6	816.6	1023.2	1101.9	1092.1
40°	626.4	629.7	642.8	728.1	728.1	682.1	688.7	764.1	901.9	901.9
42.5°	537.8	537.8	551.0	537.8	541.1	590.3	606.7	616.6	764.1	764.1
45°	465.7	465.7	472.3	439.5	406.7	508.3	521.4	524.7	642.8	659.2
47.5°	390.3	390.3	403.4	360.8	344.4	403.4	439.5	449.3	554.2	567.4
50°	288.6	291.9	331.2	295.2	305.0	311.6	380.4	387.0	469.0	498.5
52.5°	193.5	193.5	200.1	229.6	265.6	255.8	308.3	331.2	373.9	413.2
55°	157.4	157.4	154.1	147.6	196.8	213.2	226.3	275.5	305.0	354.2
57.5°	108.2	114.8	104.9	121.3	127.9	160.7	170.5	216.5	232.8	298.4
60°	13.1	16.4	23.0	88.5	85.3	108.2	127.9	170.5	190.2	229.6
62.5°	3.3	3.3	6.6	16.4	59.0	72.2	101.7	118.1	137.7	177.1
65°	0.0	0.0	3.3	6.6	13.1	39.4	52.5	68.9	98.4	124.6
67.5°	0.0	0.0	3.3	6.6	6.6	16.4	26.2	42.6	52.5	91.8
70°	0.0	0.0	3.3	6.6	6.6	13.1	16.4	19.7	36.1	49.2
72.5°	0.0	0.0	3.3	6.6	9.8	13.1	16.4	16.4	16.4	32.8
75°	0.0	0.0	3.3	6.6	9.8	13.1	16.4	16.4	13.1	13.1
77.5°	0.0	0.0	3.3	6.6	13.1	16.4	19.7	16.4	9.8	9.8
80°	0.0	0.0	3.3	9.8	16.4	23.0	26.2	19.7	9.8	6.6
82.5°	0.0	0.0	6.6	13.1	19.7	26.2	36.1	29.5	13.1	6.6
85°	0.0	0.0	3.3	9.8	19.7	26.2	52.5	36.1	16.4	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	19.7	13.1	6.6	3.3
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°
299098.0	0°	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0	299098.0
294303.3	1°	296359.6	296566.2	295890.6	296936.8	296569.5	294418.1	293706.5	292863.6
282638.0	2°	281772.2	282824.9	282877.4	284038.4	284022.0	281513.1	280735.9	282169.0
262140.8	3°	261347.2	262573.7	261468.5	263531.3	262911.5	259868.1	259077.7	260704.4
236212.7	4°	235507.6	235274.8	234894.3	233720.3	235166.5	233090.6	231526.2	233733.4
206149.1	5°	205735.9	205217.7	204476.5	204128.9	205204.6	203876.4	200659.1	203882.9
176580.7	6°	176797.1	174567.1	174458.8	174265.3	174373.6	170654.6	170877.6	173278.2
144569.0	7°	146097.3	146507.2	145671.0	147012.3	145989.1	143470.4	142499.6	145028.2
122202.5	8°	121349.8	120831.7	120192.1	122196.0	120421.7	118768.8	117637.4	119634.6
99888.5	9°	99701.5	98806.2	98156.9	98055.2	98330.7	95228.2	95857.9	97369.8
81227.8	10°	81257.4	79788.1	80145.6	80240.7	79939.0	77905.7	77925.3	78446.8
49819.6	12.5°	49642.5	48921.0	49101.4	49199.8	49813.1	49098.1	48088.0	47360.0
31411.5	15°	31201.6	30683.4	31742.7	32454.4	32310.1	31673.9	31198.3	30539.1
20880.9	17.5°	20687.4	21366.3	21369.5	22018.9	22084.5	21448.2	21080.9	20487.3
13580.6	20°	13531.4	13813.5	14400.5	14859.6	15125.3	14639.9	14200.4	13793.8
8467.8	22.5°	8467.8	8959.7	9327.0	9923.9	10166.6	9812.4	9500.9	9169.6
5286.6	25°	5198.1	5549.0	5854.0	6372.2	6703.4	6532.9	6247.5	6014.7
3414.0	27.5°	3466.5	3614.1	3764.9	4122.4	4466.7	4371.6	4256.9	4115.8
2407.2	30°	2443.3	2456.4	2617.1	2817.1	3046.7	3105.7	3053.3	2981.1
1767.7	32.5°	1800.5	1852.9	1928.4	2053.0	2207.1	2348.2	2321.9	2289.1
1351.2	35°	1390.5	1469.2	1531.5	1626.7	1708.6	1843.1	1866.1	1856.2
1111.8	37.5°	1134.7	1203.6	1265.9	1321.7	1390.5	1482.4	1554.5	1557.8
918.3	40°	941.2	1003.5	1085.5	1128.2	1177.4	1246.2	1334.8	1341.3
777.3	42.5°	793.7	852.7	934.7	987.1	1023.2	1088.8	1177.4	1190.5
665.7	45°	682.1	718.2	803.5	865.8	901.9	944.5	1039.6	1052.7
573.9	47.5°	593.6	629.7	682.1	770.7	803.5	842.8	918.3	941.2
508.3	50°	521.4	557.5	603.4	682.1	731.3	764.1	826.4	859.2
442.7	52.5°	462.4	498.5	547.7	610.0	665.7	695.3	754.3	796.9
360.8	55°	387.0	449.3	485.4	541.1	616.6	642.8	688.7	744.5
314.8	57.5°	337.8	390.3	442.7	488.7	564.1	596.9	642.8	695.3
249.2	60°	285.3	334.5	396.8	436.2	508.3	551.0	600.2	649.4
190.2	62.5°	226.3	291.9	334.5	390.3	459.1	514.9	554.2	603.4
147.6	65°	167.3	239.4	288.6	347.6	413.2	472.3	505.1	557.5
104.9	67.5°	121.3	186.9	246.0	301.7	364.0	423.1	455.9	501.8
65.6	70°	95.1	137.7	203.3	252.5	318.1	367.3	403.4	432.9
42.6	72.5°	55.8	104.9	164.0	219.7	278.8	311.6	337.8	364.0
19.7	75°	36.1	82.0	134.5	183.7	226.3	255.8	278.8	301.7
9.8	77.5°	23.0	59.0	108.2	154.1	173.8	209.9	229.6	242.7
6.6	80°	13.1	45.9	95.1	124.6	141.0	164.0	183.7	200.1
6.6	82.5°	9.8	39.4	78.7	104.9	104.9	131.2	141.0	141.0
3.3	85°	6.6	32.8	62.3	98.4	78.7	98.4	91.8	91.8
3.3	87.5°	6.6	23.0	29.5	42.6	36.1	42.6	42.6	49.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
299098.0  
289525.0  
276098.6  
253479.5  
225744.4  
195388.9  
166319.0  
138151.0  
113931.5  
92647.2  
74898.3  
46917.2  
30201.4  
20339.8  
13652.8  
8992.5  
5880.2  
4033.8  
2931.9  
2262.9  
1823.4  
1534.8  
1331.5  
1180.6  
1049.5  
944.5  
862.5  
796.9  
747.7  
698.5  
662.5  
626.4  
567.4  
505.1  
442.7  
370.6  
301.7  
236.1  
180.4  
131.2  
88.5  
49.2  
0.0

(END OF REPORT)