

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: P637060

Luminaire Tested: **IFLD-S-SA2E-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637060  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16390.3 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

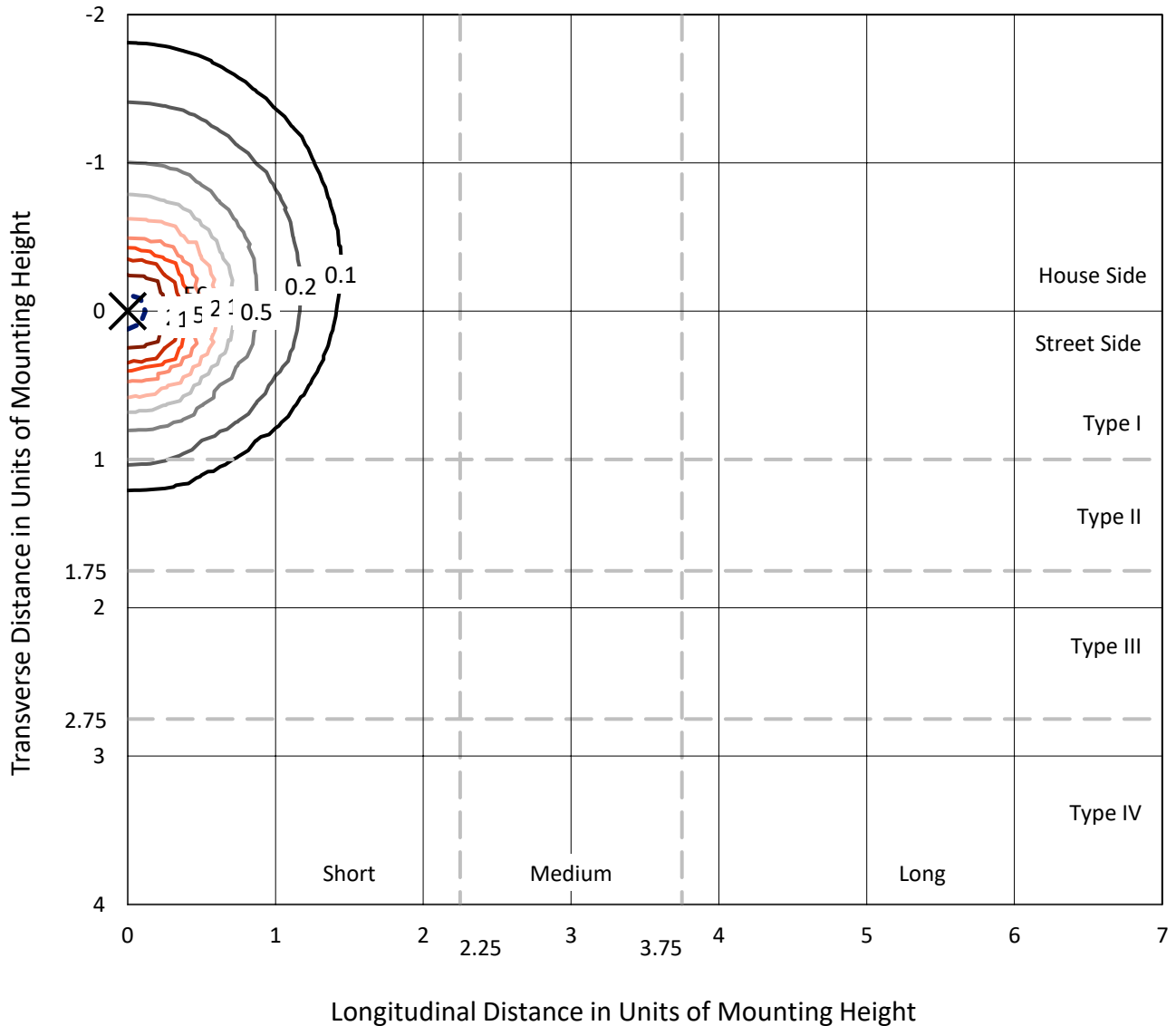
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

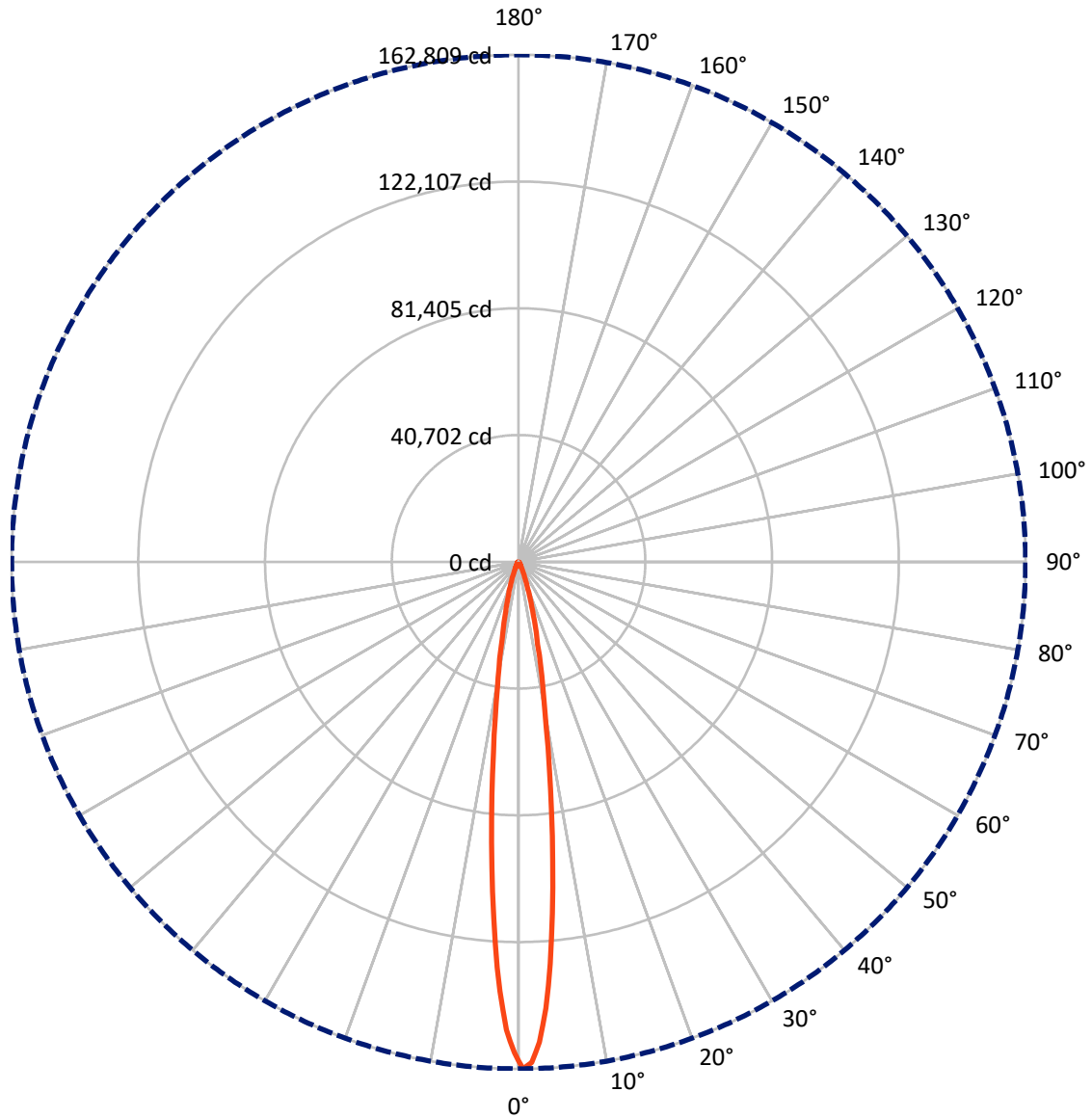
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 407 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	8394.8	0.0	8394.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	7995.5	0.0	7995.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	16390.3	0.0	16390.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8274.3	50.5
10°-20°	5297.2	32.3
20°-30°	1592.2	9.7
30°-40°	518.4	3.2
40°-50°	301.6	1.8
50°-60°	200.4	1.2
60°-70°	120.6	0.7
70°-80°	62.0	0.4
80°-90°	23.6	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°	16390.3	100.0
0°-180°	16390.3	100.0

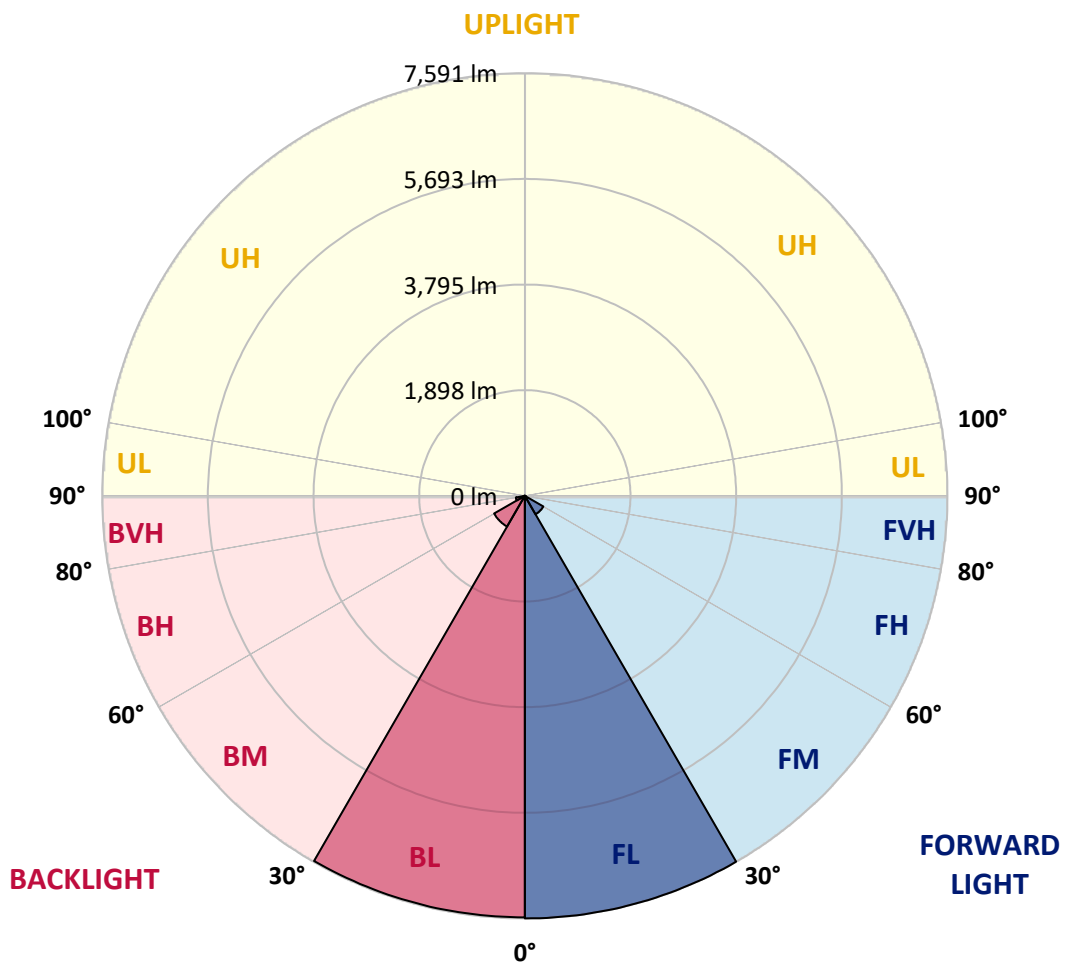


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7590.9	46.3			
FM (30°-60°)	383.1	2.3			
FH (60°-80°)	18.0	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7572.9	46.2	B5		
BM (30°-60°)	637.4	3.9	B1/1000		
BH (60°-80°)	164.6	1.0	B1/500		G0/660
BVH (80°-90°)	20.0	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°	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2
1°	160859.8	160368.8	159101.4	160002.9	160795.5	160565.2	160549.1	160463.5	160343.9	161282.9
2°	154429.6	154111.8	152237.4	153010.4	154136.8	153315.6	153829.8	153378.1	153387.1	154508.1
3°	143590.0	143763.2	140773.0	142178.0	143743.6	141753.1	142370.8	143531.1	142315.4	141949.5
4°	129501.5	127998.4	126365.0	127793.1	128198.3	127039.7	128178.7	129599.7	127910.9	127985.9
5°	113417.1	112306.7	110373.4	111255.3	110250.2	110616.2	112322.8	112908.4	111730.1	110246.7
6°	96879.3	96090.3	93673.2	94944.2	94587.2	94380.1	96534.8	94749.6	95392.3	94494.3
7°	80584.3	79109.8	77922.6	79140.1	79218.6	78595.6	81393.0	81068.1	79898.8	79627.5
8°	66765.3	65294.3	64289.3	65196.1	65788.8	64810.5	66126.2	66990.2	66076.2	66158.4
9°	53849.6	53590.8	52193.0	53378.3	54022.8	52974.9	54431.6	54744.0	53888.9	54304.8
10°	44215.1	43913.4	42797.6	43277.8	44345.4	43095.8	44493.5	44595.3	43913.4	44107.9
12.5°	27323.8	27202.4	27172.1	27241.7	27227.4	27448.8	27805.8	27398.8	27345.2	26672.2
15°	17660.7	17841.0	17655.3	18012.4	18064.1	18273.0	18055.2	17726.7	17100.1	16789.5
17.5°	11021.6	11251.9	11569.7	12092.7	12615.8	12676.5	12387.3	12001.7	11698.2	11366.2
20°	6340.9	6453.4	6405.2	7031.8	8384.9	8752.7	8379.6	7974.3	7608.4	7272.8
22.5°	3939.9	3898.8	3973.8	4184.4	4625.4	5762.5	5457.3	5052.0	4786.0	4509.3
25°	2415.3	2460.0	2431.4	2547.4	2745.6	3227.6	3297.2	3122.3	2986.6	2843.8
27.5°	1554.9	1554.9	1567.4	1631.6	1767.3	1751.3	2122.6	1986.9	1913.7	1844.1
30°	1080.0	1083.6	1083.6	1121.1	1151.4	1097.9	1194.3	1369.2	1335.3	1281.8
32.5°	801.5	812.3	821.2	840.8	815.8	758.7	781.9	985.4	965.8	946.1
35°	610.5	619.5	640.9	651.6	615.9	580.2	558.8	724.8	733.7	728.3
37.5°	444.5	449.9	489.1	530.2	489.1	457.0	444.5	557.0	599.8	594.5
40°	341.0	342.8	349.9	396.3	396.3	371.3	374.9	415.9	490.9	490.9
42.5°	292.8	292.8	299.9	292.8	294.6	321.3	330.3	335.6	415.9	415.9
45°	253.5	253.5	257.1	239.2	221.4	276.7	283.8	285.6	349.9	358.8
47.5°	212.4	212.4	219.6	196.4	187.4	219.6	239.2	244.6	301.7	308.8
50°	157.1	158.9	180.3	160.7	166.0	169.6	207.1	210.6	255.3	271.3
52.5°	105.3	105.3	108.9	125.0	144.6	139.2	167.8	180.3	203.5	224.9
55°	85.7	85.7	83.9	80.3	107.1	116.0	123.2	150.0	166.0	192.8
57.5°	58.9	62.5	57.1	66.1	69.6	87.5	92.8	117.8	126.7	162.5
60°	7.1	8.9	12.5	48.2	46.4	58.9	69.6	92.8	103.5	125.0
62.5°	1.8	1.8	3.6	8.9	32.1	39.3	55.3	64.3	75.0	96.4
65°	0.0	0.0	1.8	3.6	7.1	21.4	28.6	37.5	53.6	67.8
67.5°	0.0	0.0	1.8	3.6	3.6	8.9	14.3	23.2	28.6	50.0
70°	0.0	0.0	1.8	3.6	3.6	7.1	8.9	10.7	19.6	26.8
72.5°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	8.9	8.9	17.9
75°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	8.9	7.1	7.1
77.5°	0.0	0.0	1.8	3.6	7.1	8.9	10.7	8.9	5.4	5.4
80°	0.0	0.0	1.8	5.4	8.9	12.5	14.3	10.7	5.4	3.6
82.5°	0.0	0.0	3.6	7.1	10.7	14.3	19.6	16.1	7.1	3.6
85°	0.0	0.0	1.8	5.4	10.7	14.3	28.6	19.6	8.9	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	10.7	7.1	3.6	1.8
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°
162809.2	0°	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2	162809.2
160199.3	1°	161318.6	161431.0	161063.3	161632.7	161432.8	160261.7	159874.4	159415.6
153849.4	2°	153378.1	153951.2	153979.7	154611.7	154602.8	153237.1	152814.0	153594.1
142692.1	3°	142260.1	142927.7	142326.1	143449.0	143111.6	141455.0	141024.8	141910.2
128578.6	4°	128194.7	128068.0	127860.9	127221.8	128009.1	126879.1	126027.6	127229.0
112213.9	5°	111989.0	111706.9	111303.5	111114.3	111699.8	110976.8	109225.5	110980.4
96118.8	6°	96236.7	95022.7	94963.8	94858.5	94917.4	92893.0	93014.4	94321.2
78693.8	7°	79525.7	79748.8	79293.6	80023.8	79466.8	78095.8	77567.4	78943.7
66519.0	8°	66054.8	65772.8	65424.6	66515.4	65549.6	64649.9	64034.0	65121.2
54372.7	9°	54270.9	53783.6	53430.1	53374.8	53524.7	51835.9	52178.7	53001.7
44215.1	10°	44231.1	43431.4	43626.0	43677.7	43513.5	42406.7	42417.4	42701.2
27118.5	12.5°	27022.1	26629.4	26727.5	26781.1	27114.9	26725.8	26175.9	25779.6
17098.3	15°	16984.1	16702.0	17278.6	17666.0	17587.5	17241.2	16982.3	16623.5
11366.2	17.5°	11260.8	11630.4	11632.2	11985.6	12021.3	11675.0	11475.1	11151.9
7392.4	20°	7365.6	7519.1	7838.7	8088.6	8233.2	7969.0	7729.8	7508.4
4609.3	22.5°	4609.3	4877.1	5077.0	5401.9	5534.0	5341.2	5171.6	4991.3
2877.7	25°	2829.5	3020.5	3186.5	3468.6	3648.9	3556.1	3400.7	3274.0
1858.4	27.5°	1886.9	1967.3	2049.4	2244.0	2431.4	2379.6	2317.1	2240.4
1310.3	30°	1330.0	1337.1	1424.6	1533.5	1658.4	1690.6	1662.0	1622.7
962.2	32.5°	980.1	1008.6	1049.7	1117.5	1201.4	1278.2	1263.9	1246.0
735.5	35°	756.9	799.8	833.7	885.4	930.1	1003.3	1015.8	1010.4
605.2	37.5°	617.7	655.2	689.1	719.4	756.9	806.9	846.2	848.0
499.8	40°	512.3	546.3	590.9	614.1	640.9	678.4	726.6	730.1
423.1	42.5°	432.0	464.1	508.8	537.3	557.0	592.7	640.9	648.0
362.4	45°	371.3	391.0	437.4	471.3	490.9	514.1	565.9	573.0
312.4	47.5°	323.1	342.8	371.3	419.5	437.4	458.8	499.8	512.3
276.7	50°	283.8	303.5	328.5	371.3	398.1	415.9	449.9	467.7
241.0	52.5°	251.7	271.3	298.1	332.0	362.4	378.5	410.6	433.8
196.4	55°	210.6	244.6	264.2	294.6	335.6	349.9	374.9	405.2
171.4	57.5°	183.9	212.4	241.0	266.0	307.0	324.9	349.9	378.5
135.7	60°	155.3	182.1	216.0	237.4	276.7	299.9	326.7	353.5
103.5	62.5°	123.2	158.9	182.1	212.4	249.9	280.3	301.7	328.5
80.3	65°	91.0	130.3	157.1	189.2	224.9	257.1	274.9	303.5
57.1	67.5°	66.1	101.8	133.9	164.2	198.2	230.3	248.1	273.1
35.7	70°	51.8	75.0	110.7	137.5	173.2	199.9	219.6	235.6
23.2	72.5°	30.3	57.1	89.3	119.6	151.7	169.6	183.9	198.2
10.7	75°	19.6	44.6	73.2	100.0	123.2	139.2	151.7	164.2
5.4	77.5°	12.5	32.1	58.9	83.9	94.6	114.3	125.0	132.1
3.6	80°	7.1	25.0	51.8	67.8	76.8	89.3	100.0	108.9
3.6	82.5°	5.4	21.4	42.8	57.1	57.1	71.4	76.8	76.8
1.8	85°	3.6	17.9	33.9	53.6	42.8	53.6	50.0	50.0
1.8	87.5°	3.6	12.5	16.1	23.2	19.6	23.2	23.2	26.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
162809.2  
157598.3  
150289.8  
137977.5  
122880.3  
106356.8  
90533.0  
75200.2  
62016.8  
50431.0  
40769.7  
25538.6  
16439.6  
11071.6  
7431.7  
4894.9  
3200.8  
2195.8  
1595.9  
1231.8  
992.6  
835.5  
724.8  
642.7  
571.3  
514.1  
469.5  
433.8  
407.0  
380.2  
360.6  
341.0  
308.8  
274.9  
241.0  
201.7  
164.2  
128.5  
98.2  
71.4  
48.2  
26.8  
0.0

(END OF REPORT)