

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: P637032

Luminaire Tested: **IFLD-S-SA3A-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637032  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11442.7 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

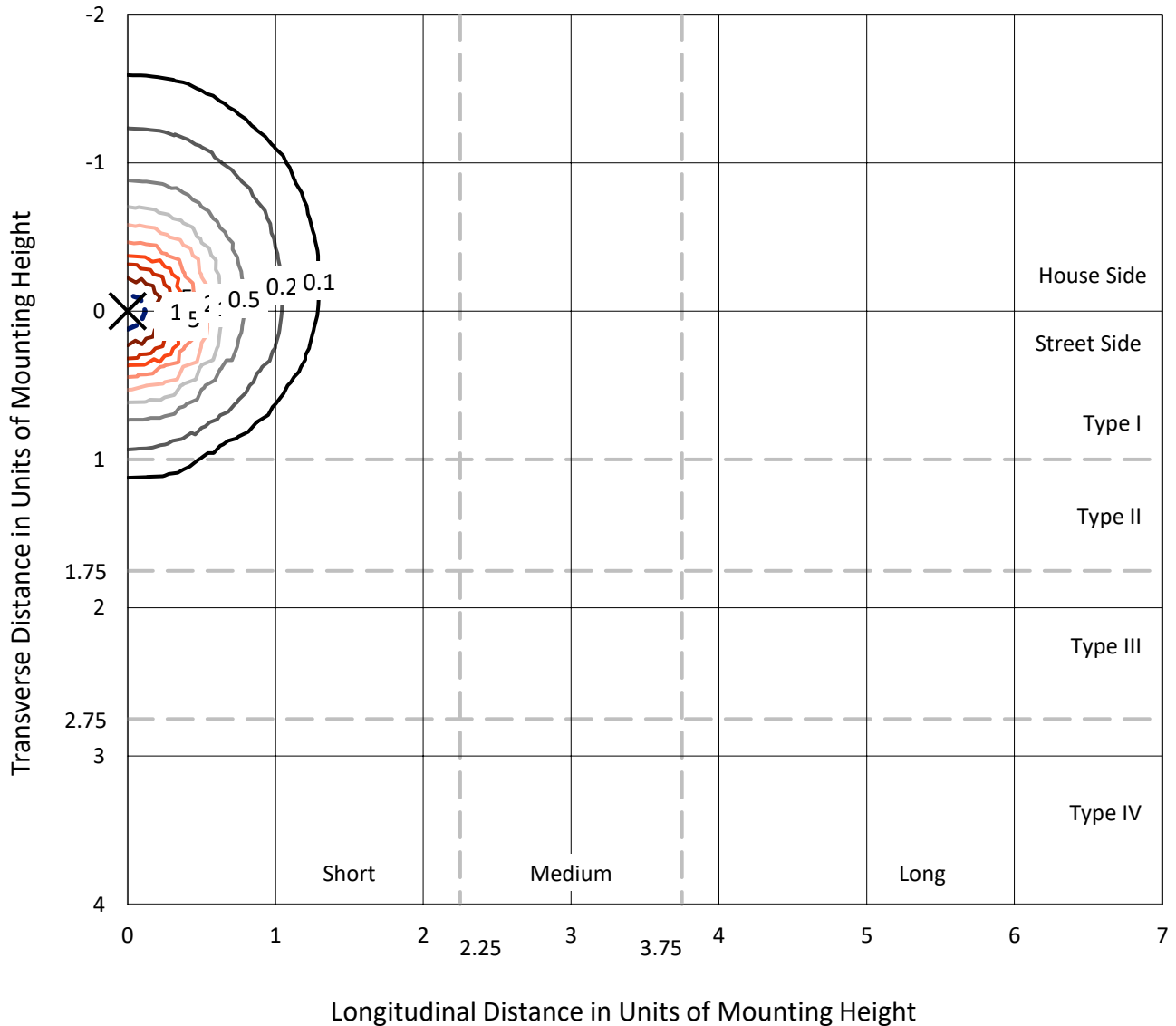
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

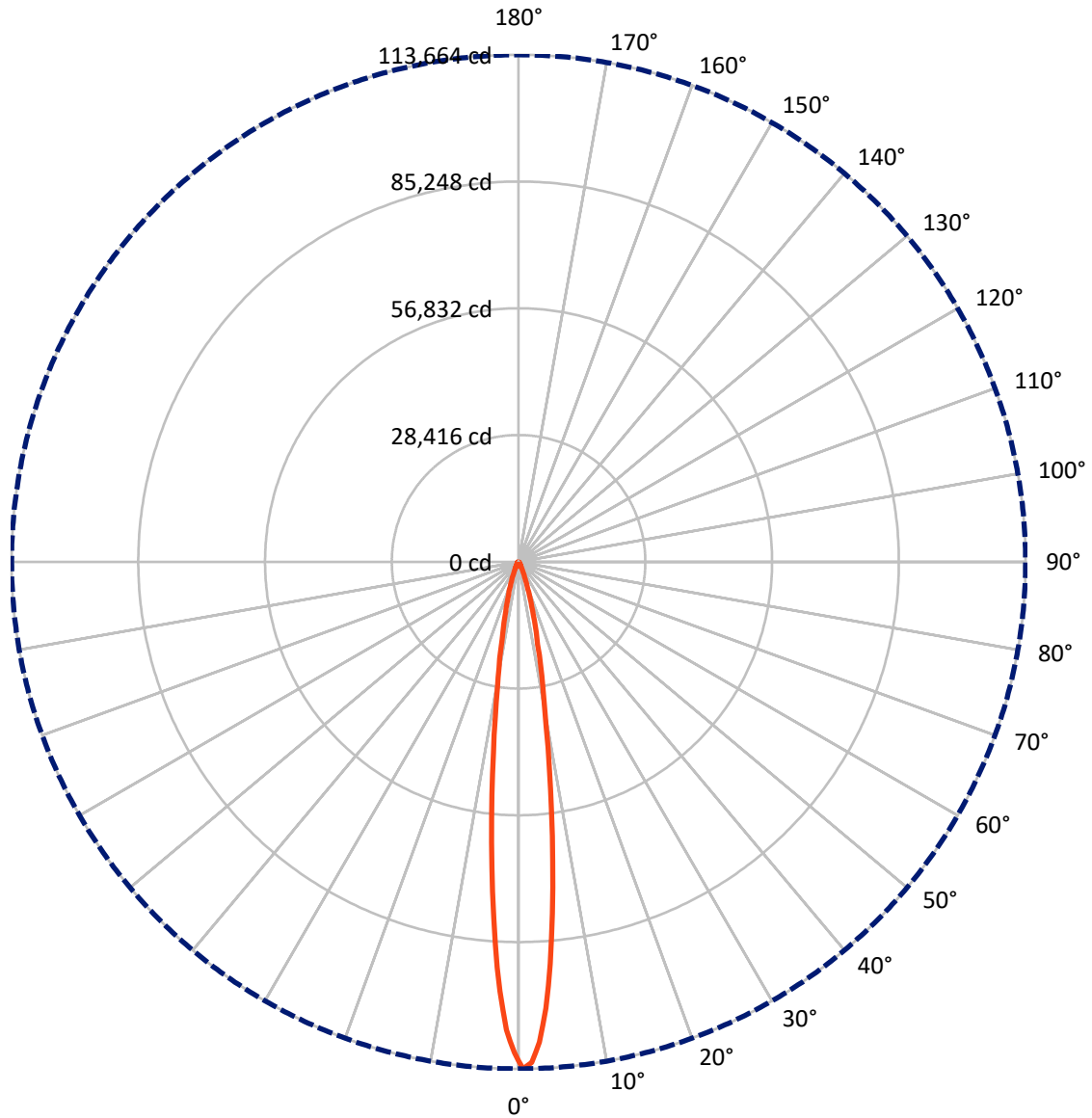
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 284.2 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	5860.8	0.0	5860.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	5582.0	0.0	5582.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	11442.7	0.0	11442.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5776.6	50.5
10°-20°	3698.2	32.3
20°-30°	1111.6	9.7
30°-40°	361.9	3.2
40°-50°	210.6	1.8
50°-60°	139.9	1.2
60°-70°	84.2	0.7
70°-80°	43.3	0.4
80°-90°	16.4	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°	11442.7	100.0
0°-180°	11442.7	100.0

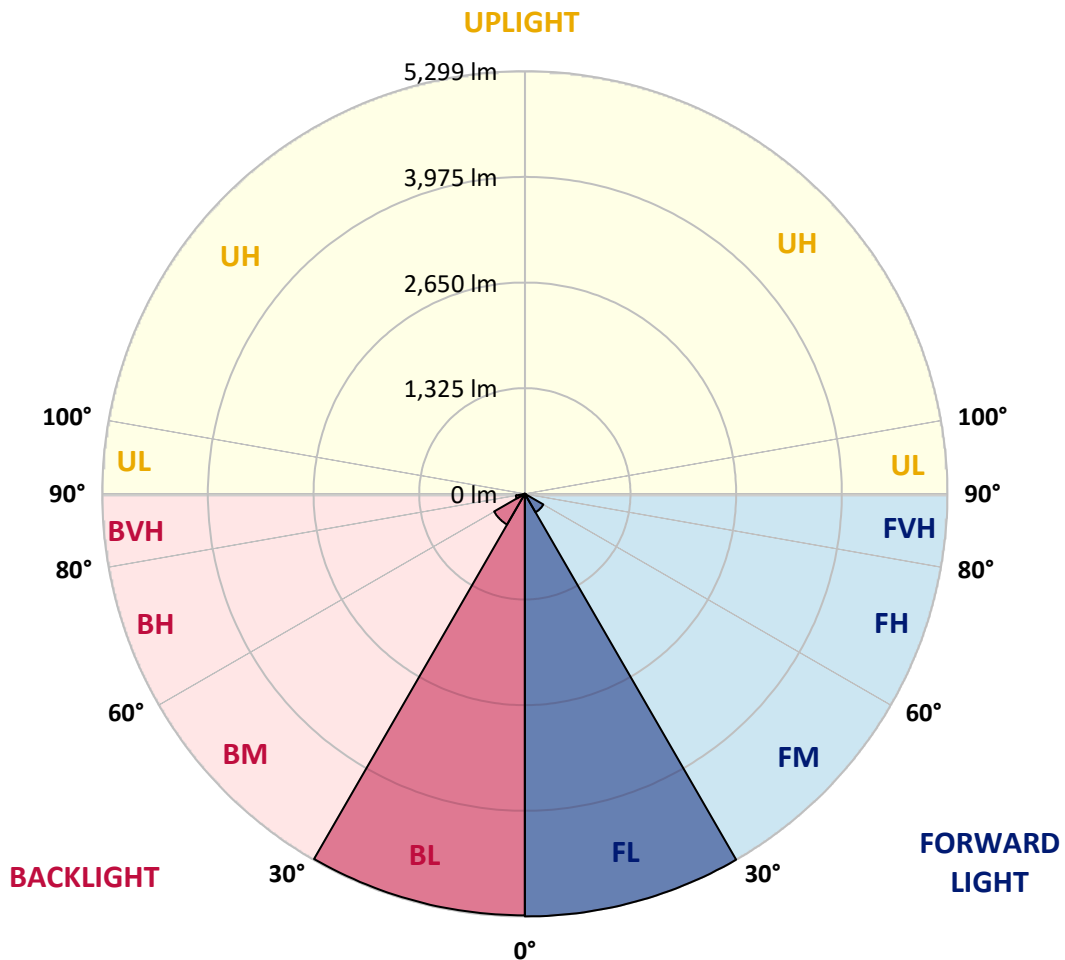


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5299.5	46.3			
FM (30°-60°)	267.4	2.3			
FH (60°-80°)	12.6	0.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	5286.9	46.2	B5		
BM (30°-60°)	445.0	3.9	B1/1000		
BH (60°-80°)	114.9	1.0	B1/500		G0/660
BVH (80°-90°)	14.0	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°	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7
1°	112302.7	111960.0	111075.1	111704.5	112257.9	112097.1	112085.9	112026.1	111942.6	112598.1
2°	107813.6	107591.7	106283.1	106822.8	107609.2	107035.9	107394.8	107079.5	107085.7	107868.4
3°	100246.1	100366.9	98279.4	99260.2	100353.2	98963.6	99394.8	100204.9	99356.2	99100.7
4°	90410.3	89360.9	88220.5	89217.6	89500.5	88691.6	89486.8	90478.8	89299.8	89352.2
5°	79181.1	78405.9	77056.2	77671.8	76970.2	77225.7	78417.1	78825.9	78003.4	76967.7
6°	67635.4	67084.5	65397.0	66284.4	66035.1	65890.6	67394.9	66148.6	66597.2	65970.3
7°	56259.2	55229.7	54400.9	55250.9	55305.8	54870.8	56823.8	56596.9	55780.6	55591.2
8°	46611.6	45584.6	44883.0	45516.1	45929.9	45246.9	46165.4	46768.6	46130.5	46187.8
9°	37594.6	37413.9	36438.0	37265.6	37715.5	36983.9	38000.9	38219.0	37622.0	37912.4
10°	30868.3	30657.7	29878.8	30214.0	30959.3	30086.9	31062.8	31133.8	30657.7	30793.6
12.5°	19075.9	18991.1	18969.9	19018.5	19008.6	19163.1	19412.4	19128.2	19090.8	18621.0
15°	12329.6	12455.5	12325.9	12575.2	12611.3	12757.1	12605.1	12375.7	11938.3	11721.4
17.5°	7694.6	7855.4	8077.3	8442.4	8807.6	8850.0	8648.1	8378.9	8167.0	7935.2
20°	4426.9	4505.4	4471.7	4909.2	5853.9	6110.6	5850.1	5567.2	5311.7	5077.4
22.5°	2750.6	2721.9	2774.3	2921.3	3229.2	4023.1	3809.9	3527.0	3341.3	3148.2
25°	1686.2	1717.4	1697.5	1778.5	1916.8	2253.3	2301.9	2179.8	2085.1	1985.4
27.5°	1085.5	1085.5	1094.3	1139.1	1233.8	1222.6	1481.8	1387.1	1336.0	1287.4
30°	754.0	756.5	756.5	782.7	803.9	766.5	833.8	955.9	932.2	894.8
32.5°	559.6	567.1	573.3	587.0	569.6	529.7	545.9	688.0	674.2	660.5
35°	426.2	432.5	447.4	454.9	430.0	405.0	390.1	506.0	512.2	508.5
37.5°	310.3	314.1	341.5	370.2	341.5	319.1	310.3	388.8	418.8	415.0
40°	238.0	239.3	244.3	276.7	276.7	259.2	261.7	290.4	342.7	342.7
42.5°	204.4	204.4	209.4	204.4	205.6	224.3	230.6	234.3	290.4	290.4
45°	177.0	177.0	179.5	167.0	154.5	193.2	198.2	199.4	244.3	250.5
47.5°	148.3	148.3	153.3	137.1	130.9	153.3	167.0	170.7	210.6	215.6
50°	109.7	110.9	125.9	112.2	115.9	118.4	144.6	147.1	178.2	189.4
52.5°	73.5	73.5	76.0	87.2	101.0	97.2	117.2	125.9	142.1	157.0
55°	59.8	59.8	58.6	56.1	74.8	81.0	86.0	104.7	115.9	134.6
57.5°	41.1	43.6	39.9	46.1	48.6	61.1	64.8	82.3	88.5	113.4
60°	5.0	6.2	8.7	33.7	32.4	41.1	48.6	64.8	72.3	87.2
62.5°	1.2	1.2	2.5	6.2	22.4	27.4	38.6	44.9	52.3	67.3
65°	0.0	0.0	1.2	2.5	5.0	15.0	19.9	26.2	37.4	47.4
67.5°	0.0	0.0	1.2	2.5	2.5	6.2	10.0	16.2	19.9	34.9
70°	0.0	0.0	1.2	2.5	2.5	5.0	6.2	7.5	13.7	18.7
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	6.2	6.2	12.5
75°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	6.2	5.0	5.0
77.5°	0.0	0.0	1.2	2.5	5.0	6.2	7.5	6.2	3.7	3.7
80°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	7.5	3.7	2.5
82.5°	0.0	0.0	2.5	5.0	7.5	10.0	13.7	11.2	5.0	2.5
85°	0.0	0.0	1.2	3.7	7.5	10.0	19.9	13.7	6.2	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	7.5	5.0	2.5	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°
113663.7	0°	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7	113663.7
111841.6	1°	112623.0	112701.6	112444.8	112842.4	112702.8	111885.2	111614.8	111294.5
107408.5	2°	107079.5	107479.6	107499.5	107940.7	107934.5	106981.1	106685.7	107230.3
99619.2	3°	99317.6	99783.7	99363.7	100147.6	99912.0	98755.5	98455.1	99073.3
89765.9	4°	89498.0	89409.5	89264.9	88818.7	89368.4	88579.4	87985.0	88823.7
78341.1	5°	78184.1	77987.2	77705.5	77573.4	77982.2	77477.4	76254.8	77479.9
67104.5	6°	67186.7	66339.2	66298.1	66224.6	66265.7	64852.4	64937.2	65849.4
54939.3	7°	55520.1	55675.9	55358.1	55867.8	55479.0	54521.8	54152.9	55113.8
46439.6	8°	46115.6	45918.6	45675.6	46437.1	45762.9	45134.7	44704.7	45463.7
37959.8	9°	37888.7	37548.5	37301.7	37263.1	37367.8	36188.8	36428.1	37002.6
30868.3	10°	30879.5	30321.2	30457.1	30493.2	30378.5	29605.8	29613.3	29811.5
18932.5	12.5°	18865.2	18591.0	18659.6	18697.0	18930.0	18658.3	18274.5	17997.8
11937.1	15°	11857.3	11660.4	12062.9	12333.4	12278.5	12036.8	11856.0	11605.5
7935.2	17.5°	7861.7	8119.6	8120.9	8367.7	8392.6	8150.8	8011.2	7785.6
5160.9	20°	5142.2	5249.4	5472.5	5647.0	5747.9	5563.5	5396.5	5241.9
3217.9	22.5°	3217.9	3404.9	3544.5	3771.3	3863.5	3728.9	3610.5	3484.7
2009.0	25°	1975.4	2108.7	2224.6	2421.6	2547.4	2482.6	2374.2	2285.7
1297.4	27.5°	1317.3	1373.4	1430.8	1566.6	1697.5	1661.3	1617.7	1564.1
914.8	30°	928.5	933.5	994.5	1070.6	1157.8	1180.2	1160.3	1132.9
671.8	32.5°	684.2	704.2	732.8	780.2	838.8	892.4	882.4	869.9
513.5	35°	528.4	558.3	582.0	618.2	649.3	700.4	709.1	705.4
422.5	37.5°	431.2	457.4	481.1	502.3	528.4	563.3	590.7	592.0
349.0	40°	357.7	381.4	412.5	428.7	447.4	473.6	507.2	509.7
295.4	42.5°	301.6	324.0	355.2	375.1	388.8	413.8	447.4	452.4
253.0	45°	259.2	272.9	305.3	329.0	342.7	358.9	395.1	400.1
218.1	47.5°	225.6	239.3	259.2	292.9	305.3	320.3	349.0	357.7
193.2	50°	198.2	211.9	229.3	259.2	277.9	290.4	314.1	326.5
168.3	52.5°	175.7	189.4	208.1	231.8	253.0	264.2	286.6	302.9
137.1	55°	147.1	170.7	184.5	205.6	234.3	244.3	261.7	282.9
119.6	57.5°	128.4	148.3	168.3	185.7	214.4	226.8	244.3	264.2
94.7	60°	108.4	127.1	150.8	165.8	193.2	209.4	228.1	246.8
72.3	62.5°	86.0	110.9	127.1	148.3	174.5	195.7	210.6	229.3
56.1	65°	63.6	91.0	109.7	132.1	157.0	179.5	191.9	211.9
39.9	67.5°	46.1	71.0	93.5	114.7	138.3	160.8	173.2	190.7
24.9	70°	36.1	52.3	77.3	96.0	120.9	139.6	153.3	164.5
16.2	72.5°	21.2	39.9	62.3	83.5	105.9	118.4	128.4	138.3
7.5	75°	13.7	31.2	51.1	69.8	86.0	97.2	105.9	114.7
3.7	77.5°	8.7	22.4	41.1	58.6	66.1	79.8	87.2	92.2
2.5	80°	5.0	17.4	36.1	47.4	53.6	62.3	69.8	76.0
2.5	82.5°	3.7	15.0	29.9	39.9	39.9	49.9	53.6	53.6
1.2	85°	2.5	12.5	23.7	37.4	29.9	37.4	34.9	34.9
1.2	87.5°	2.5	8.7	11.2	16.2	13.7	16.2	16.2	18.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
113663.7  
110025.8  
104923.4  
96327.7  
85787.7  
74252.0  
63204.8  
52500.3  
43296.4  
35207.9  
28463.0  
17829.6  
11477.2  
7729.5  
5188.3  
3417.4  
2234.6  
1532.9  
1114.2  
859.9  
692.9  
583.3  
506.0  
448.7  
398.8  
358.9  
327.8  
302.9  
284.2  
265.5  
251.8  
238.0  
215.6  
191.9  
168.3  
140.8  
114.7  
89.7  
68.5  
49.9  
33.7  
18.7  
0.0

(END OF REPORT)