

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: P637335

Luminaire Tested: **IFLD-M-SA4D-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637335  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27475.4 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

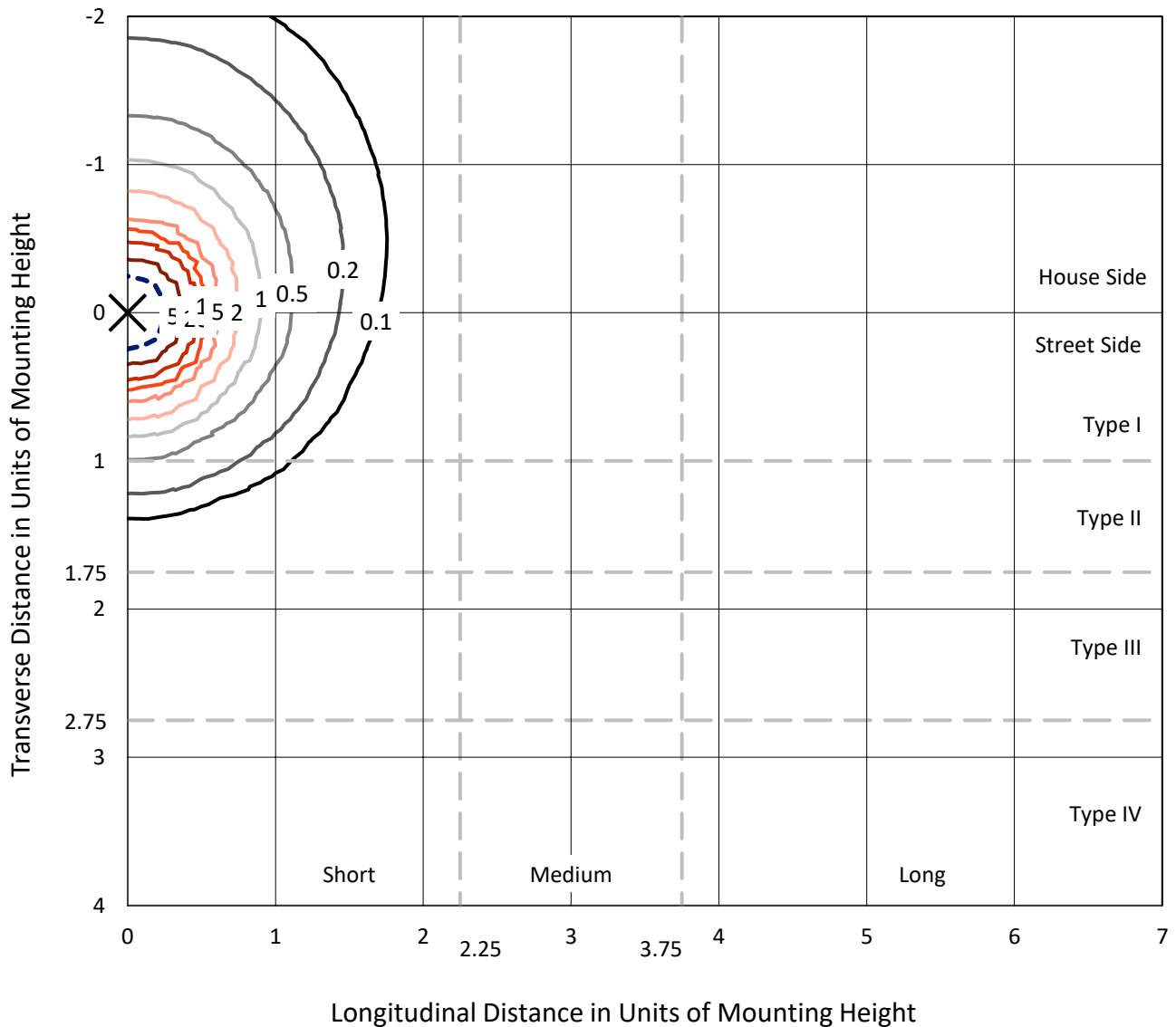
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637335  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

### Iso-Footcandle Lines of Horizontal Illumination

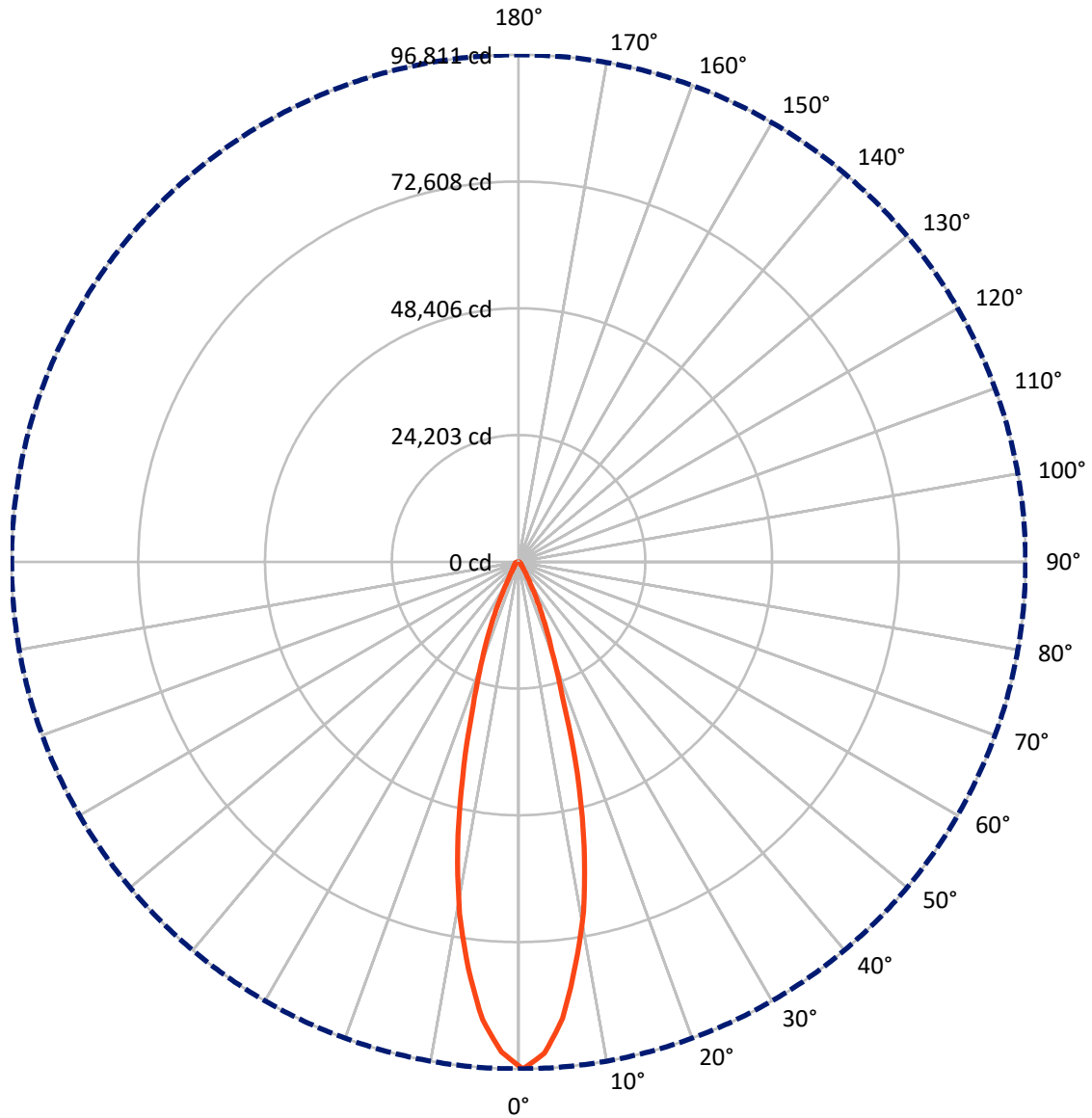
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 242 fc  
 Type V - Short - N/A

REPORT NUMBER: P637335  
CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637335  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14486.9	0.0	14486.9
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	12988.5	0.0	12988.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	27475.4	0.0	27475.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7813.5	28.4
10°-20°	11833.5	43.1
20°-30°	4993.8	18.2
30°-40°	1302.4	4.7
40°-50°	658.8	2.4
50°-60°	430.6	1.6
60°-70°	258.0	0.9
70°-80°	135.7	0.5
80°-90°	49.0	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°	27475.4	100.0
0°-180°	27475.4	100.0

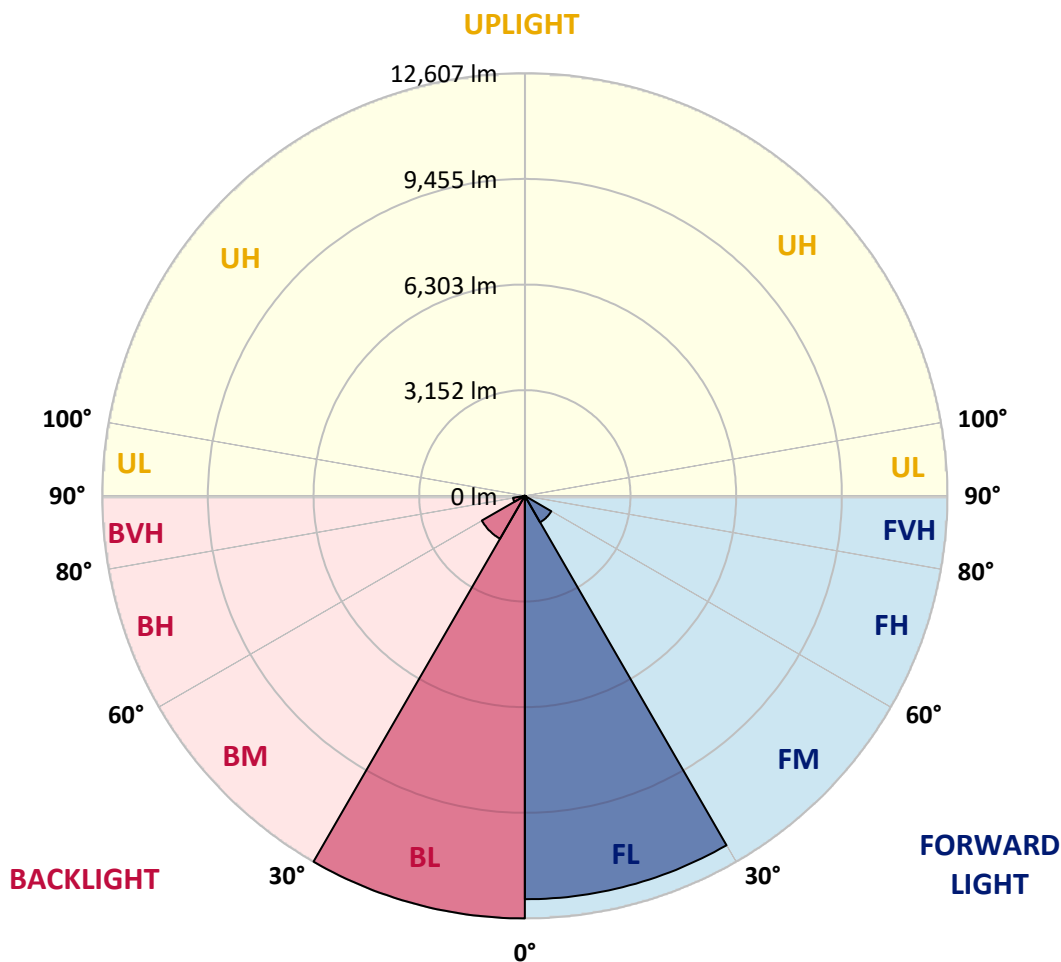


REPORT NUMBER: P637335  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12034.0	43.8			
FM (30°-60°)	911.4	3.3			
FH (60°-80°)	37.1	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12606.9	45.9	B5		
BM (30°-60°)	1480.4	5.4	B2/2500		
BH (60°-80°)	356.5	1.3	B1/500		G0/660
BVH (80°-90°)	43.1	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





REPORT NUMBER: P637335  
 CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3
2.5°	93991.1	94043.6	93849.2	94268.8	93941.8	94818.1	94383.0	95061.8	94833.5	95213.0
5°	87573.3	87486.9	87431.3	88082.4	87894.2	88835.2	88233.6	88036.1	88647.0	88535.9
7.5°	77881.6	78110.0	77980.4	78150.1	78245.7	79319.5	79658.9	79393.5	79402.8	79557.1
10°	67946.3	67609.9	67131.7	67449.5	68122.1	68591.1	68402.9	68791.7	68705.3	69072.5
12.5°	55721.4	55986.8	55718.3	55434.5	56610.1	56480.5	56807.5	57020.4	56486.6	57674.6
15°	41972.3	42111.2	42438.3	42416.7	43320.7	43502.8	43459.6	43684.8	43268.3	43465.7
17.5°	26964.4	27433.4	28312.7	29800.0	31472.3	31666.7	31617.3	31432.2	31231.6	31009.5
20°	18112.0	18062.6	18380.4	18815.5	22277.5	23193.9	23166.1	22586.0	21746.8	21586.3
22.5°	12687.7	12780.2	12737.0	13169.0	13884.8	16411.9	16100.2	15510.9	15236.3	15057.3
25°	8346.3	8312.4	8528.4	8658.0	9272.0	9580.5	10672.8	10453.7	10031.0	10077.3
27.5°	5088.0	5131.2	5211.4	5322.5	5757.6	5658.8	6282.1	6365.4	6229.7	6084.6
30°	3122.5	3153.4	3218.2	3298.4	3449.6	3341.6	3514.4	3813.7	3764.3	3662.5
32.5°	2119.8	2122.8	2169.1	2200.0	2181.5	2079.6	2135.2	2419.0	2425.2	2416.0
35°	1524.2	1524.2	1567.4	1592.1	1539.7	1456.4	1465.6	1641.5	1718.6	1734.1
37.5°	1052.2	1055.2	1129.3	1203.4	1144.7	1123.1	1086.1	1203.4	1326.8	1345.3
40°	799.1	796.1	833.1	888.6	894.8	854.7	867.0	941.1	1067.6	1083.0
42.5°	648.0	651.0	669.6	663.4	666.5	718.9	737.4	771.4	888.6	916.4
45°	546.1	549.2	558.5	527.6	515.3	595.5	620.2	638.7	737.4	771.4
47.5°	450.5	456.7	465.9	432.0	425.8	478.3	521.5	540.0	626.4	663.4
50°	324.0	330.2	364.1	345.6	364.1	376.4	435.1	462.8	521.5	570.8
52.5°	234.5	240.7	249.9	253.0	299.3	305.5	348.7	391.9	419.6	475.2
55°	185.1	191.3	185.1	179.0	219.1	253.0	268.4	314.7	336.3	401.1
57.5°	104.9	111.1	120.3	138.8	145.0	194.4	209.8	249.9	268.4	330.2
60°	18.5	21.6	33.9	83.3	101.8	123.4	157.4	191.3	216.0	259.2
62.5°	3.1	3.1	6.2	18.5	58.6	86.4	114.2	135.8	157.4	197.5
65°	0.0	0.0	3.1	6.2	15.4	49.4	61.7	80.2	108.0	141.9
67.5°	0.0	0.0	3.1	6.2	9.3	18.5	27.8	49.4	61.7	95.7
70°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	21.6	37.0	58.6
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	18.5	18.5	37.0
75°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	18.5	15.4	15.4
77.5°	0.0	0.0	3.1	6.2	12.3	18.5	21.6	18.5	12.3	12.3
80°	0.0	0.0	6.2	9.3	15.4	21.6	27.8	21.6	12.3	6.2
82.5°	0.0	0.0	6.2	12.3	15.4	24.7	33.9	27.8	12.3	6.2
85°	0.0	0.0	3.1	9.3	18.5	24.7	33.9	24.7	12.3	3.1
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	18.5	15.4	6.2	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637335

CATALOG NUMBER: IFLD-M-SA4D-730-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
96811.3	0°	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3	96811.3
94494.1	2.5°	95037.1	95530.8	95632.6	95496.9	95694.4	95339.5	95068.0	94364.5	93941.8
88502.0	5°	89072.8	88998.8	89514.1	89683.8	89662.2	89390.6	89011.1	88585.3	88171.9
79257.8	7.5°	79751.5	79847.1	80316.1	80615.4	80464.2	80124.8	79862.5	79541.7	79264.0
69205.2	10°	69837.7	69180.5	69763.6	69763.6	70167.8	69208.2	69297.7	68489.3	68526.3
57653.0	12.5°	57850.4	58088.0	58183.7	58458.3	57986.2	57477.1	56853.8	56730.4	56344.7
43089.3	15°	43709.5	44388.3	43805.1	44801.8	44320.4	43789.7	43694.1	42737.6	43039.9
31253.2	17.5°	31099.0	31848.7	32083.2	32654.1	32215.9	31901.2	31503.2	31213.1	31191.5
21879.4	20°	22052.2	22805.1	22977.9	23662.9	23613.5	23514.8	23178.4	22811.3	22413.2
14893.8	22.5°	15119.1	15733.1	16307.0	17229.6	17214.1	16924.1	16890.1	16371.8	16381.0
10061.9	25°	10166.8	10614.2	10750.0	11694.1	11799.0	11768.2	11592.3	11111.0	11293.0
6146.4	27.5°	6152.5	6544.4	7004.1	7337.4	7652.1	7602.7	7426.8	7158.4	7041.2
3693.4	30°	3792.1	3968.0	4137.7	4538.8	4727.0	4825.8	4742.4	4492.5	4511.0
2431.4	32.5°	2483.8	2631.9	2755.4	3008.4	3107.1	3289.2	3255.2	3202.8	3141.1
1749.5	35°	1811.2	1919.2	2002.5	2119.8	2246.3	2400.5	2425.2	2403.6	2378.9
1351.5	37.5°	1382.3	1493.4	1589.0	1638.4	1737.1	1857.5	1925.4	1922.3	1903.8
1101.5	40°	1123.1	1206.4	1292.8	1357.6	1425.5	1515.0	1598.3	1607.6	1607.6
925.7	42.5°	938.0	1009.0	1095.4	1163.2	1212.6	1295.9	1382.3	1388.5	1382.3
783.7	45°	802.2	863.9	947.3	1027.5	1067.6	1129.3	1212.6	1231.1	1218.8
672.6	47.5°	697.3	752.9	823.8	910.2	953.4	1009.0	1086.1	1107.7	1104.6
580.1	50°	598.6	663.4	734.4	805.3	860.9	913.3	987.4	1012.1	1002.8
493.7	52.5°	527.6	586.2	648.0	725.1	789.9	836.2	894.8	938.0	925.7
416.5	55°	441.2	512.2	577.0	641.8	722.0	771.4	826.9	879.4	867.0
351.7	57.5°	382.6	441.2	515.3	573.9	654.1	712.8	768.3	823.8	820.7
287.0	60°	320.9	382.6	453.6	515.3	589.3	654.1	709.7	771.4	777.6
216.0	62.5°	253.0	327.1	388.8	459.7	533.8	604.8	654.1	715.8	725.1
163.5	65°	191.3	268.4	336.3	404.2	478.3	555.4	598.6	651.0	660.3
120.3	67.5°	141.9	206.7	287.0	348.7	425.8	499.9	540.0	583.2	598.6
74.1	70°	108.0	157.4	240.7	299.3	379.5	438.1	481.3	518.4	530.7
49.4	72.5°	67.9	123.4	194.4	256.1	327.1	379.5	410.4	432.0	450.5
27.8	75°	46.3	95.7	157.4	219.1	271.5	311.6	339.4	357.9	373.3
12.3	77.5°	27.8	74.1	129.6	182.0	216.0	246.8	274.6	287.0	296.2
9.3	80°	15.4	55.5	108.0	148.1	169.7	191.3	212.9	228.3	234.5
6.2	82.5°	9.3	43.2	86.4	114.2	123.4	145.0	166.6	175.9	175.9
3.1	85°	6.2	30.9	58.6	83.3	89.5	104.9	111.1	117.2	123.4
3.1	87.5°	6.2	18.5	37.0	46.3	49.4	55.5	58.6	64.8	71.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
96811.3  
93630.1  
87709.0  
78322.9  
68165.3  
55993.0  
42737.6  
30617.6  
22240.4  
16202.1  
11006.1  
6939.3  
4430.8  
3119.5  
2369.7  
1894.5  
1589.0  
1376.1  
1218.8  
1098.4  
996.6  
922.6  
873.2  
823.8  
780.6  
731.3  
669.6  
604.8  
536.9  
447.4  
370.3  
293.1  
228.3  
172.8  
120.3  
67.9  
0.0

(END OF REPORT)