

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: P638028

Luminaire Tested: **IFLD-M-SA4A-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638028  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12373.4 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

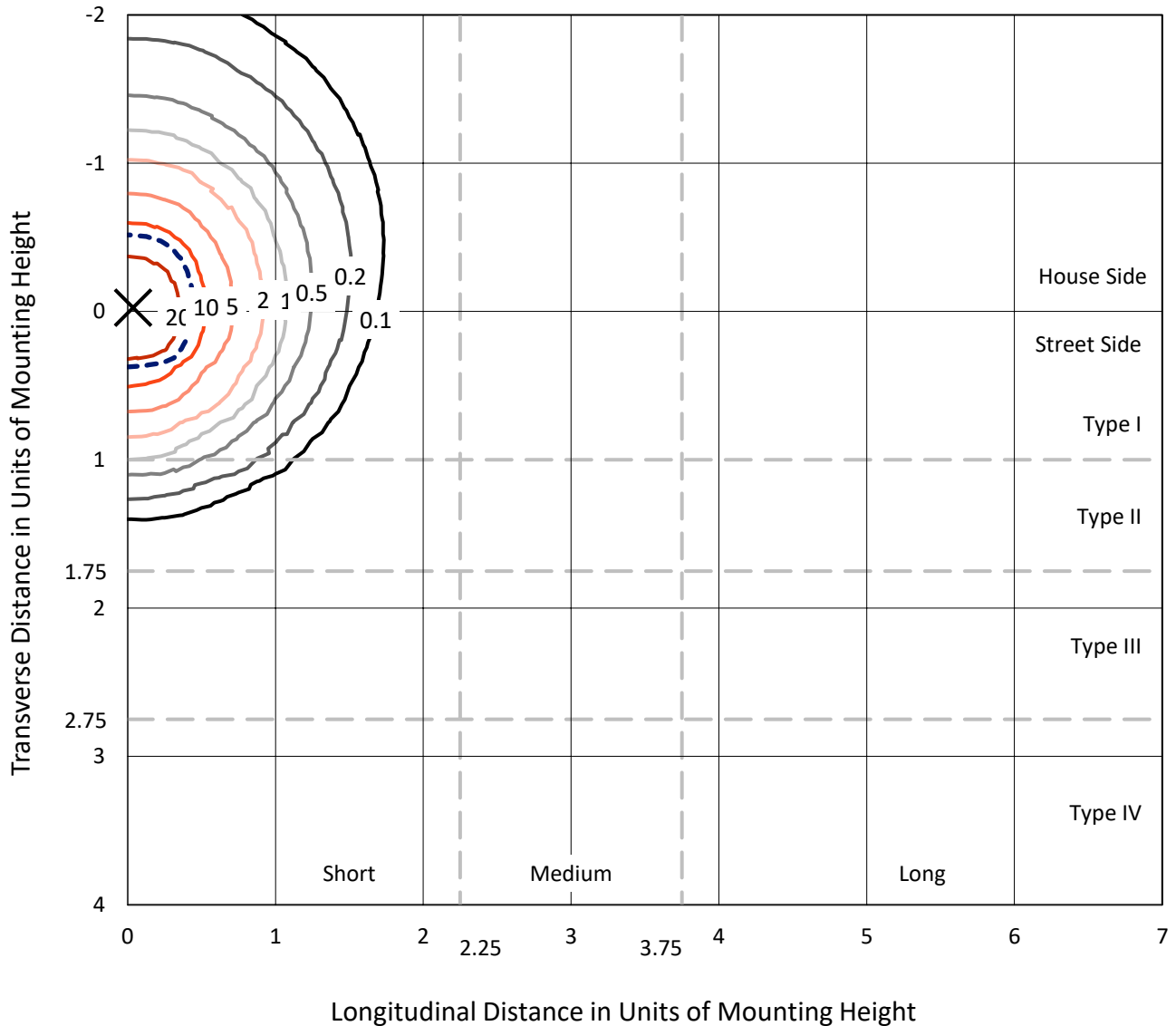
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

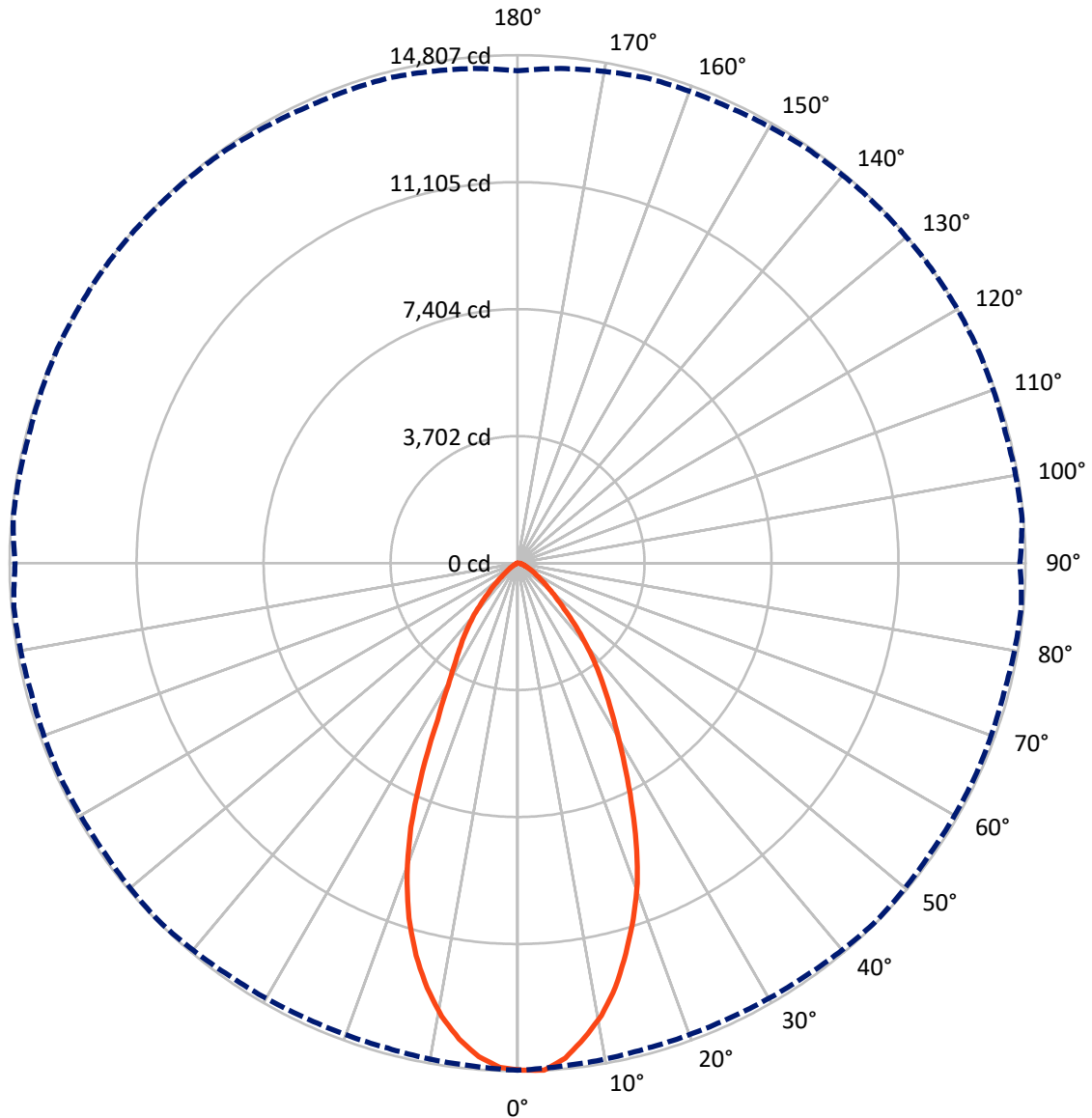
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37 fc  
 Type I - Short - N/A

REPORT NUMBER: P638028  
CATALOG NUMBER: IFLD-M-SA4A-830-U-66-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4A-830-U-66-VI

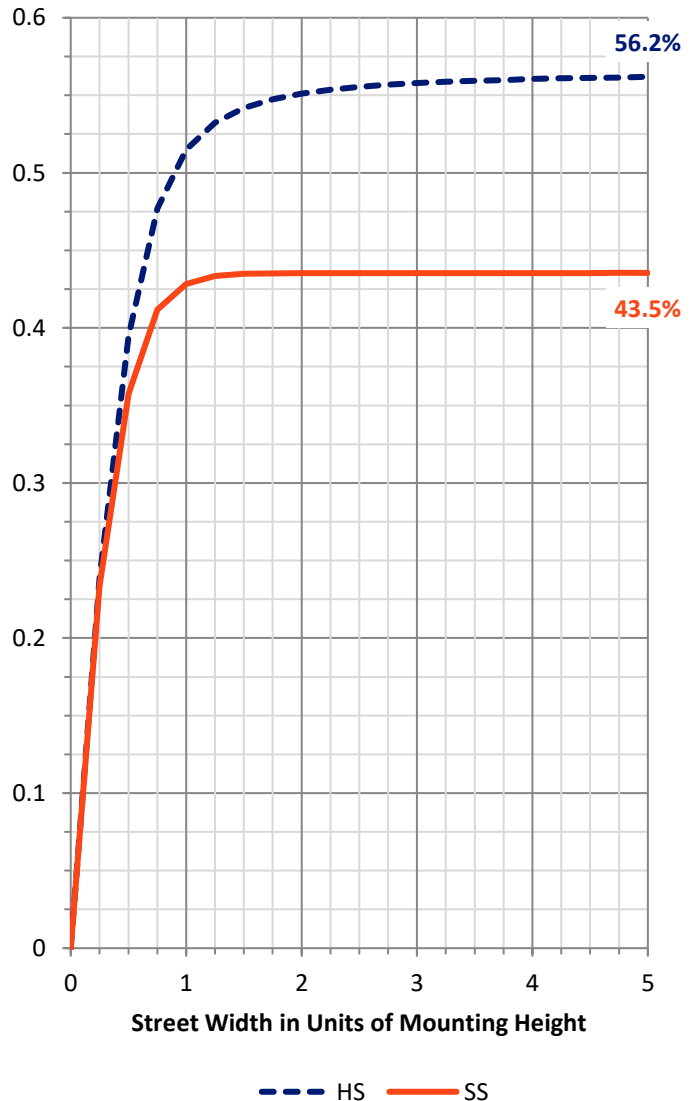
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7021.2	0.0	7021.2
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	5352.3	0.0	5352.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	12373.4	0.0	12373.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1342.4	10.8
10°-20°	3199.9	25.9
20°-30°	3259.1	26.3
30°-40°	2430.3	19.6
40°-50°	1269.6	10.3
50°-60°	534.0	4.3
60°-70°	218.1	1.8
70°-80°	91.8	0.7
80°-90°	28.3	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°	12373.4	100.0
0°-180°	12373.4	100.0



REPORT NUMBER: P638028

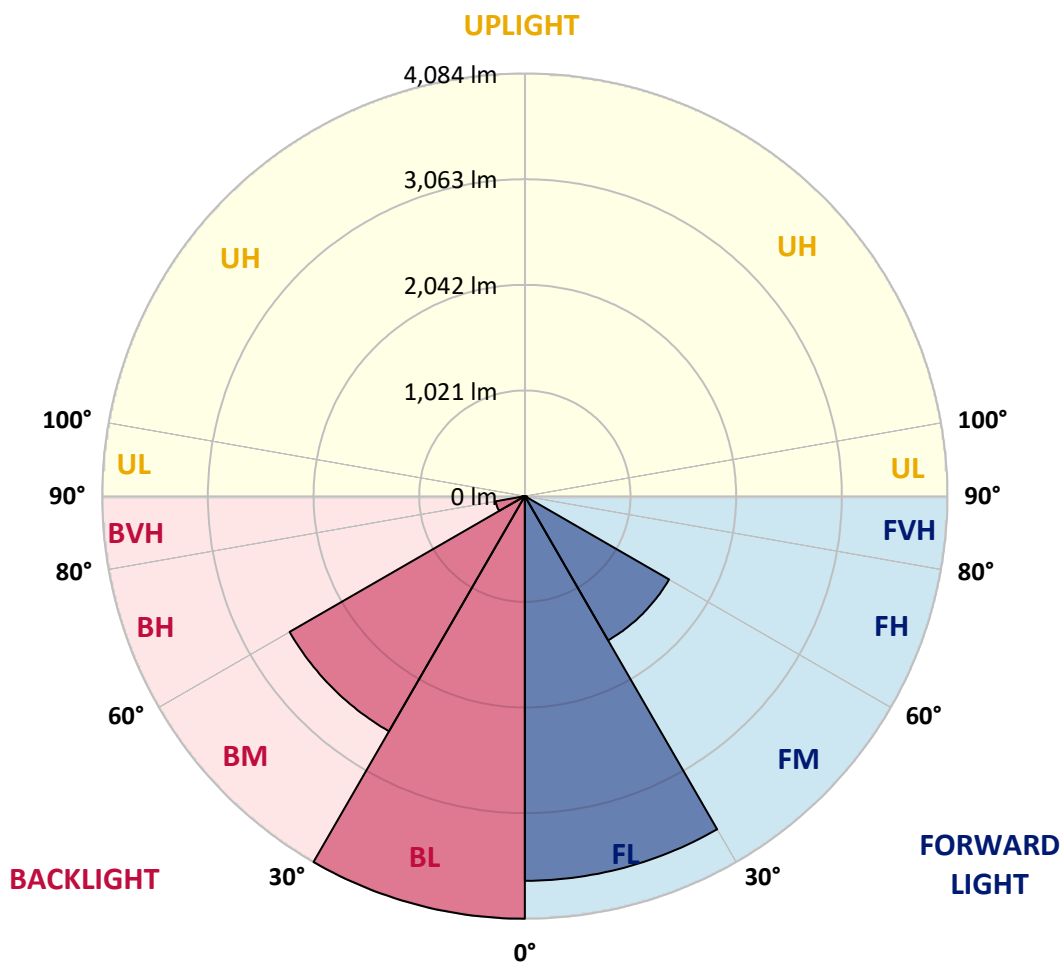
CATALOG NUMBER: IFLD-M-SA4A-830-U-66-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.1	30.0			
FM (30°-60°)	1609.2	13.0			
FH (60°-80°)	23.3	0.2			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	4084.2	33.0	B4/5000		
BM (30°-60°)	2624.7	21.2	B3/5000		
BH (60°-80°)	286.6	2.3	B1/500		G1/500
BVH (80°-90°)	25.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





REPORT NUMBER: P638028  
 CATALOG NUMBER: IFLD-M-SA4A-830-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3
2.5°	14784.9	14724.5	14638.6	14630.7	14675.2	14772.1	14710.2	14713.3	14675.2	14740.4
5°	14552.8	14495.6	14436.8	14358.9	14424.1	14465.4	14433.6	14398.6	14349.4	14412.9
7.5°	14114.1	14082.3	13994.9	13959.9	13999.7	14045.8	13977.4	13967.9	13899.5	13982.2
10°	13443.4	13430.7	13344.8	13324.2	13359.1	13429.1	13398.9	13392.5	13349.6	13341.7
12.5°	12747.2	12697.9	12591.4	12585.1	12637.5	12742.4	12661.4	12583.5	12607.3	12628.0
15°	10954.3	10901.9	11165.7	11580.6	11798.3	11790.4	11814.2	11720.4	11691.8	11701.4
17.5°	8708.5	8619.5	8714.8	9357.0	10391.7	10992.5	10827.2	10625.3	10517.2	10445.7
20°	7516.4	7521.2	7503.7	7669.0	8314.3	9684.4	9644.6	9255.2	9113.8	9055.0
22.5°	6791.6	6764.6	6726.5	6778.9	6952.2	7756.4	8295.2	7937.6	7888.3	7823.2
25°	6081.1	6081.1	6035.1	6087.5	6136.8	6147.9	6688.3	6834.5	6739.2	6739.2
27.5°	5466.0	5434.3	5413.6	5437.4	5372.3	5059.1	5127.5	5876.1	5810.9	5771.2
30°	4855.7	4846.2	4811.2	4843.0	4601.4	4248.5	4105.5	4959.0	5027.4	5013.1
32.5°	4008.5	4046.7	4202.4	4251.7	3838.5	3554.0	3417.3	4116.6	4390.0	4378.9
35°	2724.3	2756.1	2934.1	3522.2	3182.0	2978.6	2938.9	3274.2	3724.0	3766.9
37.5°	2169.6	2164.8	2215.7	2320.6	2557.4	2508.1	2497.0	2584.4	3037.4	3056.5
40°	1788.1	1781.7	1780.2	1694.3	1635.5	2085.3	2055.1	2002.7	2395.3	2433.4
42.5°	1441.6	1448.0	1452.7	1265.2	1179.4	1608.5	1591.0	1537.0	1878.7	1923.2
45°	1131.7	1130.1	1139.6	942.5	918.7	1028.4	1188.9	1146.0	1417.8	1465.5
47.5°	586.5	607.2	735.9	729.5	740.7	729.5	899.6	888.5	1066.5	1142.8
50°	394.2	400.5	411.7	413.3	583.3	537.2	610.3	691.4	747.0	864.6
52.5°	305.2	309.9	281.3	263.8	357.6	397.4	400.5	478.4	521.3	640.5
55°	170.1	190.7	205.0	206.6	197.1	294.0	292.5	354.4	387.8	467.3
57.5°	22.3	27.0	41.3	133.5	131.9	163.7	205.0	257.5	276.6	341.7
60°	1.6	3.2	4.8	20.7	87.4	95.4	139.9	160.5	192.3	240.0
62.5°	0.0	0.0	1.6	4.8	17.5	55.6	73.1	84.2	112.8	157.4
65°	0.0	0.0	1.6	3.2	6.4	20.7	28.6	46.1	66.8	97.0
67.5°	0.0	0.0	1.6	3.2	4.8	7.9	12.7	20.7	35.0	58.8
70°	0.0	0.0	1.6	3.2	4.8	6.4	9.5	12.7	19.1	31.8
72.5°	0.0	0.0	1.6	1.6	3.2	7.9	7.9	9.5	12.7	17.5
75°	0.0	0.0	1.6	3.2	4.8	7.9	7.9	7.9	9.5	11.1
77.5°	0.0	0.0	1.6	3.2	4.8	7.9	6.4	7.9	7.9	7.9
80°	0.0	0.0	1.6	3.2	4.8	7.9	9.5	7.9	6.4	6.4
82.5°	0.0	0.0	1.6	4.8	4.8	11.1	11.1	11.1	4.8	4.8
85°	0.0	0.0	3.2	4.8	7.9	12.7	12.7	9.5	4.8	3.2
87.5°	0.0	0.0	1.6	3.2	3.2	6.4	9.5	7.9	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638028

CATALOG NUMBER: IFLD-M-SA4A-830-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14783.3	0°	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3	14783.3
14645.0	2.5°	14762.6	14722.9	14797.6	14807.1	14775.3	14735.6	14643.4	14635.4	14474.9
14320.7	5°	14482.9	14417.7	14465.4	14497.2	14486.0	14443.1	14405.0	14370.0	14225.4
13794.6	7.5°	13961.5	13937.7	13959.9	13983.8	14029.9	13983.8	13967.9	13931.3	13788.3
13276.5	10°	13383.0	13338.5	13422.7	13411.6	13398.9	13386.2	13319.4	13325.8	13157.3
12570.8	12.5°	12672.5	12597.8	12678.9	12688.4	12678.9	12634.4	12559.7	12591.4	12437.3
11617.1	15°	11717.3	11709.3	11768.1	11806.3	11833.3	11785.6	11760.2	11776.1	11683.9
10390.1	17.5°	10544.3	10647.6	10839.9	10905.1	10906.7	10955.9	10941.6	10922.5	10854.2
9031.1	20°	9164.6	9363.3	9659.0	9962.5	10050.0	10008.6	9989.6	10024.5	9922.8
7754.8	22.5°	7891.5	8061.6	8404.9	8848.3	9104.2	9129.7	9124.9	9094.7	9055.0
6732.8	25°	6810.7	6961.7	7290.7	7696.0	8187.1	8260.3	8263.4	8253.9	8218.9
5806.2	27.5°	5898.4	6081.1	6262.3	6624.7	7147.7	7449.6	7411.5	7400.4	7387.7
5024.2	30°	5071.9	5302.3	5472.4	5698.1	6167.0	6575.5	6615.2	6596.1	6565.9
4377.3	32.5°	4417.0	4553.7	4769.9	4922.5	5259.4	5721.9	5874.5	5860.2	5833.2
3794.0	35°	3848.0	3902.0	4072.1	4242.2	4466.3	4914.5	5140.2	5108.4	5103.7
3091.4	37.5°	3169.3	3350.5	3444.3	3615.9	3773.3	4121.4	4432.9	4418.6	4420.2
2485.9	40°	2559.0	2663.9	2849.8	2994.5	3139.1	3393.4	3739.9	3749.5	3746.3
1924.8	42.5°	1964.5	2066.3	2261.8	2419.1	2547.9	2705.2	3035.8	3046.9	3061.2
1498.8	45°	1533.8	1599.0	1742.0	1905.7	2042.4	2137.8	2388.9	2460.4	2462.0
1161.9	47.5°	1190.5	1265.2	1366.9	1524.3	1657.8	1726.1	1908.9	2005.9	2001.1
891.7	50°	934.6	1002.9	1085.6	1209.6	1354.2	1408.2	1543.3	1638.7	1633.9
672.3	52.5°	715.2	802.7	875.8	971.1	1112.6	1158.7	1255.6	1365.3	1349.4
492.7	55°	542.0	631.0	699.3	778.8	907.6	966.4	1033.1	1120.5	1123.7
381.5	57.5°	408.5	500.7	562.7	643.7	740.7	805.8	856.7	950.5	948.9
260.7	60°	292.5	371.9	446.6	530.9	605.6	680.3	715.2	804.3	807.4
184.4	62.5°	211.4	286.1	357.6	430.7	497.5	570.6	602.4	672.3	681.9
120.8	65°	147.8	200.3	282.9	338.5	413.3	467.3	508.6	569.0	580.1
71.5	67.5°	95.4	144.6	224.1	273.4	341.7	387.8	430.7	478.4	492.7
46.1	70°	57.2	109.7	166.9	219.3	281.3	322.7	364.0	405.3	413.3
22.3	72.5°	36.6	76.3	120.8	178.0	225.7	270.2	306.8	337.0	313.1
14.3	75°	20.7	52.5	95.4	139.9	182.8	225.7	255.9	271.8	217.8
9.5	77.5°	12.7	38.1	77.9	112.8	141.5	181.2	200.3	209.8	155.8
6.4	80°	7.9	28.6	65.2	92.2	92.2	133.5	155.8	163.7	112.8
4.8	82.5°	6.4	20.7	50.9	69.9	62.0	100.1	122.4	124.0	79.5
3.2	85°	4.8	15.9	31.8	46.1	42.9	69.9	71.5	79.5	52.5
3.2	87.5°	3.2	9.5	19.1	27.0	23.8	33.4	38.1	42.9	28.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
14783.3
14349.4
14109.3
13758.1
13100.1
12392.8
11572.6
10752.5
9849.7
8978.7
8101.3
7313.0
6527.8
5761.7
5051.2
4369.3
3690.7
3013.6
2420.7
1983.6
1633.9
1351.0
1123.7
945.7
799.5
678.7
577.0
491.1
406.9
290.9
206.6
146.2
104.9
73.1
47.7
25.4
0.0

(END OF REPORT)