

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: P637517

Luminaire Tested: **IFLD-L-SA8B-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637517  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31190.6 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

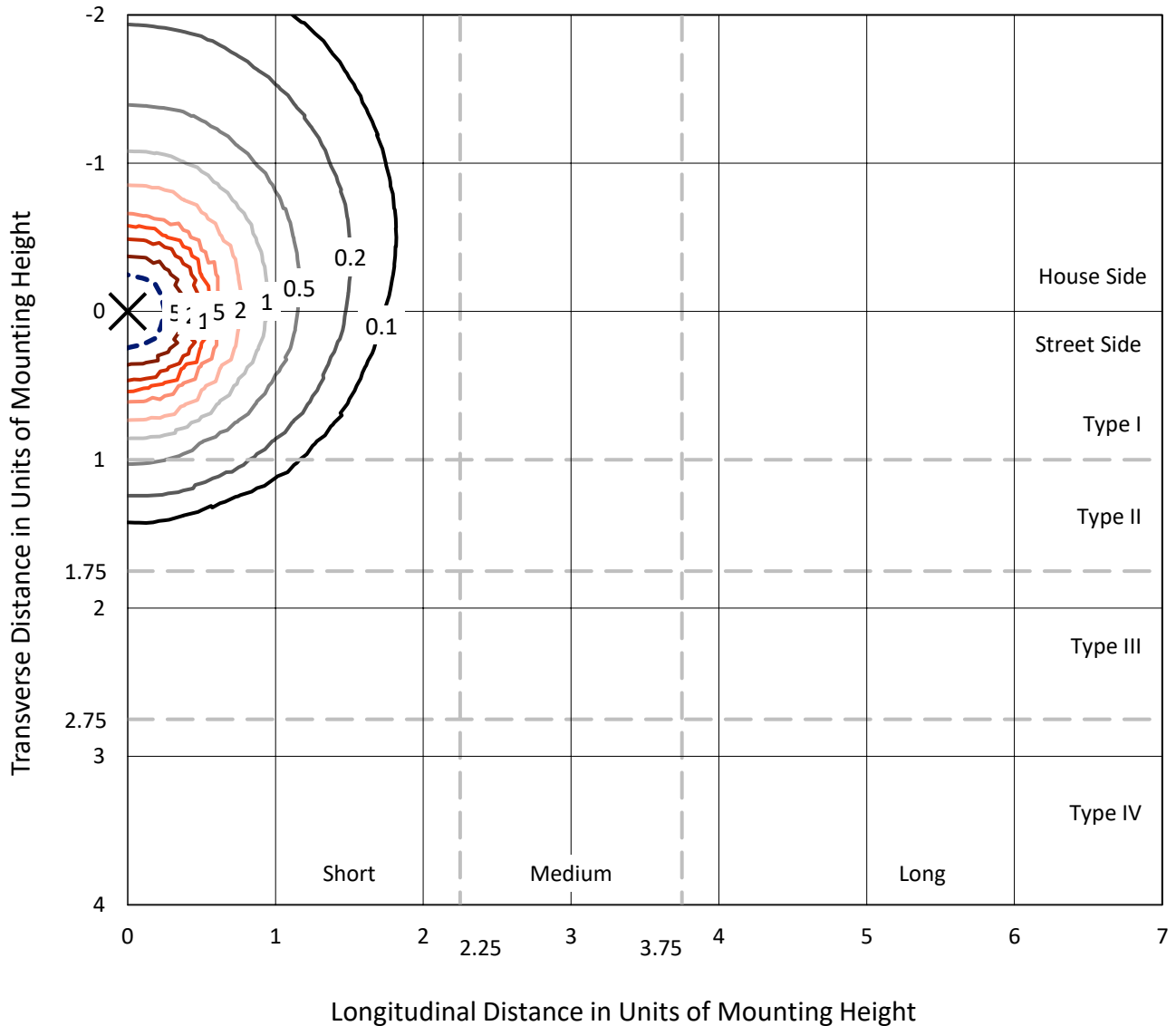
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

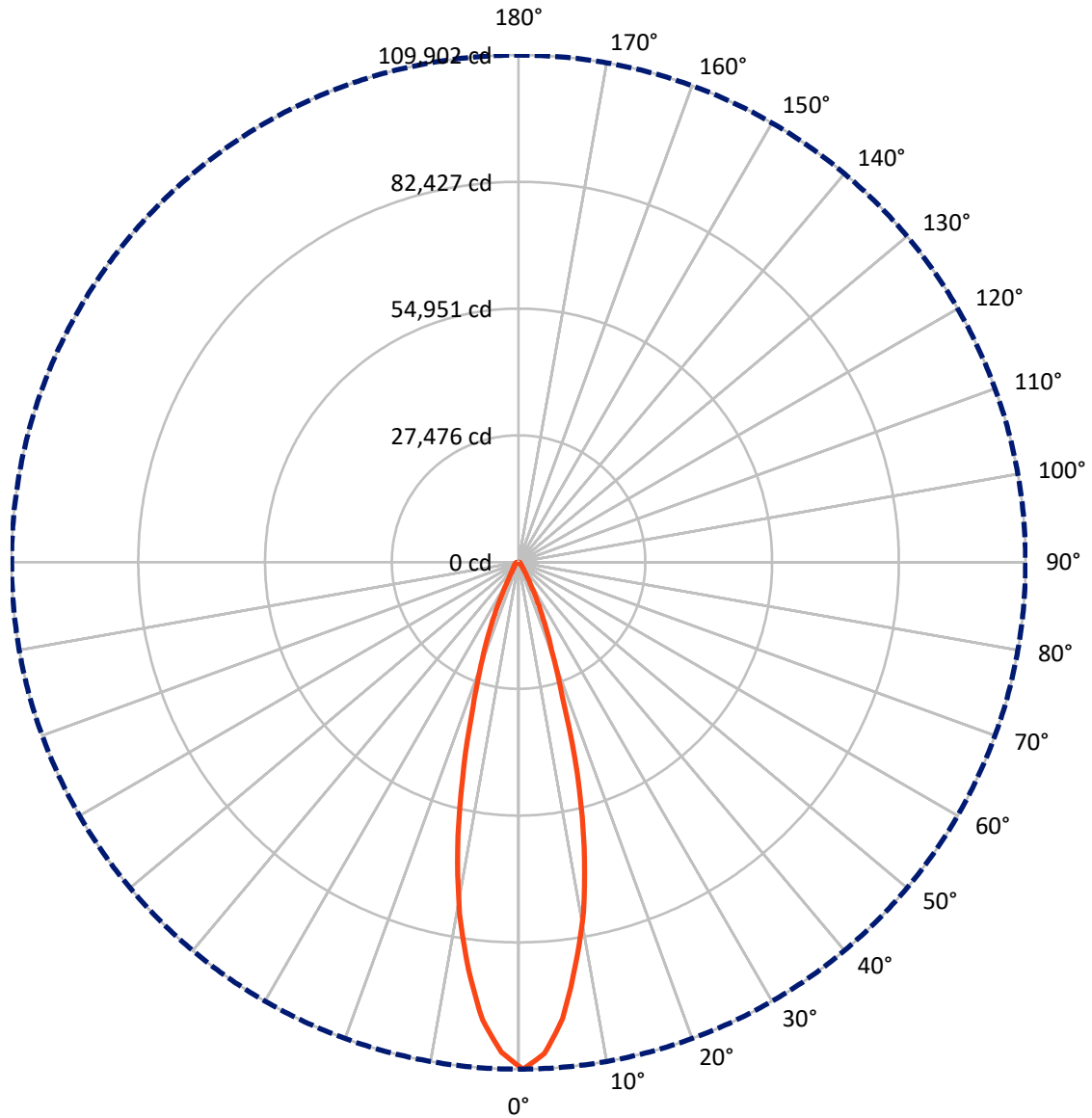
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 274.8 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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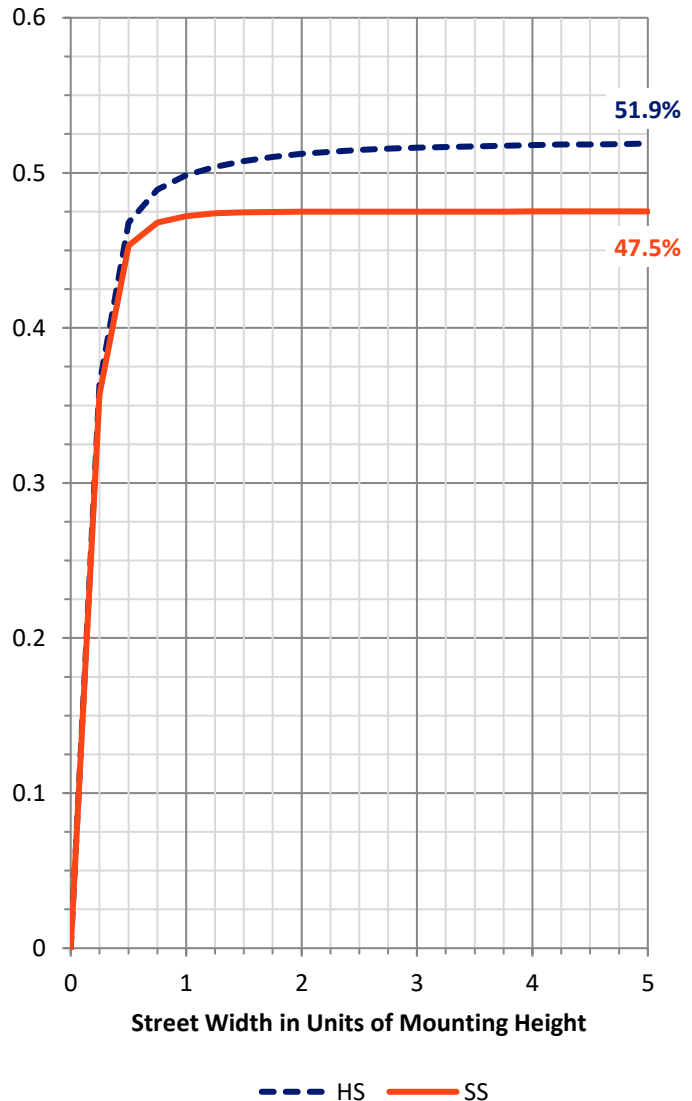
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16445.8	0.0	16445.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14744.8	0.0	14744.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	31190.6	0.0	31190.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8870.1	28.4
10°-20°	13433.7	43.1
20°-30°	5669.1	18.2
30°-40°	1478.5	4.7
40°-50°	747.8	2.4
50°-60°	488.8	1.6
60°-70°	292.9	0.9
70°-80°	154.1	0.5
80°-90°	55.6	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°	31190.6	100.0
0°-180°	31190.6	100.0



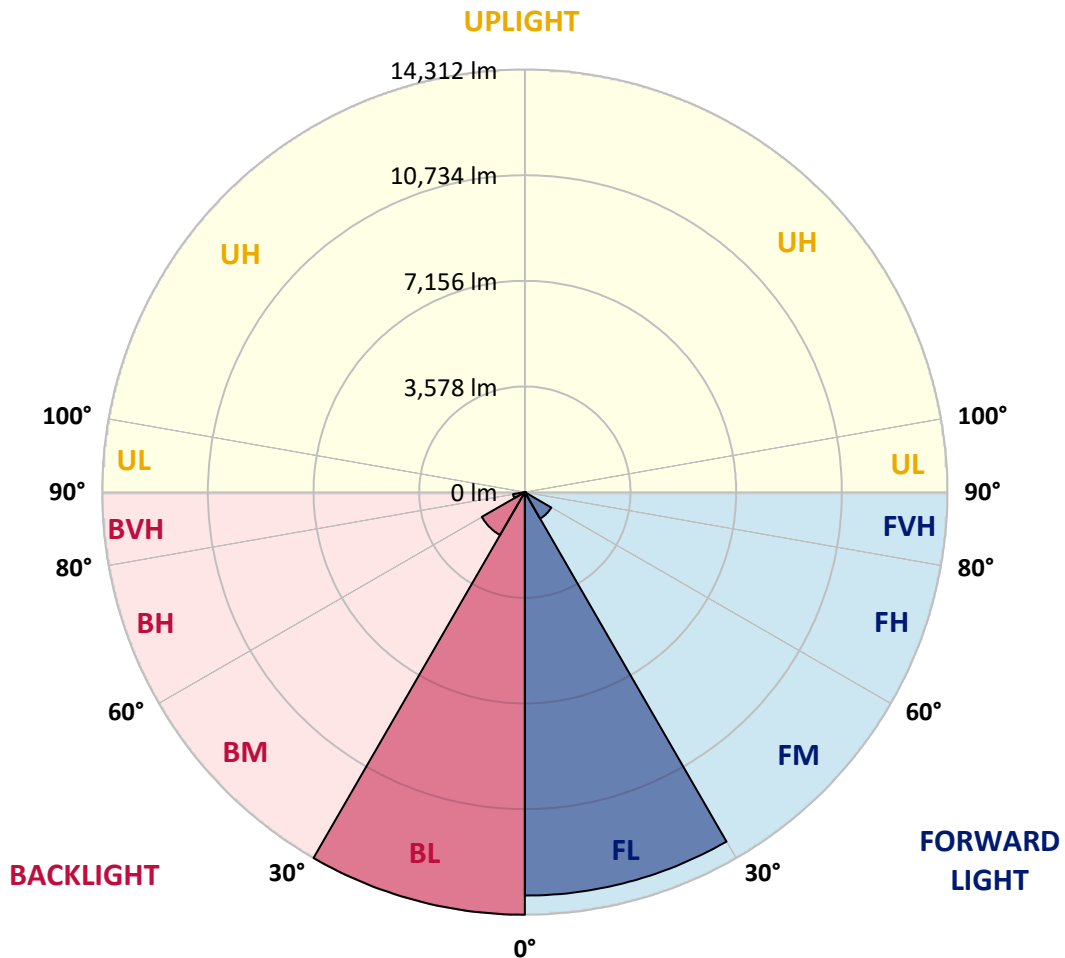
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13661.3	43.8			
FM (30°-60°)	1034.6	3.3			
FH (60°-80°)	42.2	0.1			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	14311.6	45.9	B5		
BM (30°-60°)	1680.6	5.4	B2/2500		
BH (60°-80°)	404.7	1.3	B1/500		G0/660
BVH (80°-90°)	48.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	109902.1	109902.1	109902.1	109902.1	109902.1	109902.1	109902.1	109902.1	109902.1	109902.1
2.5°	106700.6	106760.2	106539.5	107015.9	106644.6	107639.4	107145.5	107916.1	107656.9	108087.7
5°	99414.9	99316.8	99253.8	99992.9	99779.2	100847.5	100164.5	99940.3	100633.9	100507.8
7.5°	88412.8	88672.0	88524.9	88717.5	88826.1	90045.1	90430.4	90129.1	90139.6	90314.8
10°	77133.9	76752.1	76209.2	76570.0	77333.6	77866.0	77652.4	78093.7	77995.6	78412.4
12.5°	63256.1	63557.3	63252.6	62930.3	64264.9	64117.7	64489.0	64730.7	64124.8	65473.3
15°	47647.8	47805.5	48176.8	48152.2	49178.5	49385.2	49336.2	49591.9	49119.0	49343.2
17.5°	30610.5	31142.9	32141.2	33829.5	35728.0	35948.7	35892.6	35682.5	35454.8	35202.6
20°	20561.1	20505.1	20865.9	21359.7	25289.8	26330.1	26298.6	25640.1	24687.3	24505.2
22.5°	14403.3	14508.4	14459.3	14949.7	15762.4	18631.1	18277.3	17608.3	17296.6	17093.4
25°	9474.9	9436.4	9681.6	9828.7	10525.7	10876.0	12116.0	11867.3	11387.4	11440.0
27.5°	5776.0	5825.1	5916.1	6042.2	6536.1	6424.0	7131.6	7226.2	7072.0	6907.4
30°	3544.8	3579.8	3653.4	3744.4	3916.1	3793.5	3989.6	4329.4	4273.3	4157.8
32.5°	2406.4	2409.9	2462.4	2497.5	2476.4	2360.9	2423.9	2746.2	2753.2	2742.6
35°	1730.4	1730.4	1779.4	1807.4	1747.9	1653.3	1663.8	1863.5	1951.0	1968.5
37.5°	1194.4	1197.9	1282.0	1366.1	1299.5	1275.0	1233.0	1366.1	1506.2	1527.2
40°	907.2	903.7	945.7	1008.8	1015.8	970.3	984.3	1068.3	1211.9	1229.5
42.5°	735.6	739.1	760.1	753.1	756.6	816.1	837.2	875.7	1008.8	1040.3
45°	620.0	623.5	634.0	599.0	585.0	676.0	704.1	725.1	837.2	875.7
47.5°	511.4	518.4	528.9	490.4	483.4	542.9	592.0	613.0	711.1	753.1
50°	367.8	374.8	413.3	392.3	413.3	427.3	493.9	525.4	592.0	648.0
52.5°	266.2	273.2	283.7	287.2	339.8	346.8	395.8	444.8	476.4	539.4
55°	210.2	217.2	210.2	203.2	248.7	287.2	304.7	357.3	381.8	455.4
57.5°	119.1	126.1	136.6	157.6	164.6	220.7	238.2	283.7	304.7	374.8
60°	21.0	24.5	38.5	94.6	115.6	140.1	178.6	217.2	245.2	294.2
62.5°	3.5	3.5	7.0	21.0	66.6	98.1	129.6	154.1	178.6	224.2
65°	0.0	0.0	3.5	7.0	17.5	56.0	70.1	91.1	122.6	161.1
67.5°	0.0	0.0	3.5	7.0	10.5	21.0	31.5	56.0	70.1	108.6
70°	0.0	0.0	3.5	7.0	10.5	14.0	17.5	24.5	42.0	66.6
72.5°	0.0	0.0	3.5	7.0	10.5	14.0	17.5	21.0	21.0	42.0
75°	0.0	0.0	3.5	7.0	10.5	17.5	21.0	21.0	17.5	17.5
77.5°	0.0	0.0	3.5	7.0	14.0	21.0	24.5	21.0	14.0	14.0
80°	0.0	0.0	7.0	10.5	17.5	24.5	31.5	24.5	14.0	7.0
82.5°	0.0	0.0	7.0	14.0	17.5	28.0	38.5	31.5	14.0	7.0
85°	0.0	0.0	3.5	10.5	21.0	28.0	38.5	28.0	14.0	3.5
87.5°	0.0	0.0	3.5	3.5	7.0	10.5	21.0	17.5	7.0	3.5
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°
<b>109902.1</b>	0°	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>	<b>109902.1</b>
107271.6	2.5°	107888.0	108448.5	108564.1	108410.0	108634.1	108231.3	107923.1	107124.5	106644.6
100469.2	5°	101117.2	101033.2	101618.1	101810.8	101786.3	101478.0	101047.2	100563.8	100094.4
89975.0	7.5°	90535.5	90644.0	91176.5	91516.2	91344.6	90959.3	90661.5	90297.3	89982.0
78563.1	10°	79281.1	78535.0	79197.1	79197.1	79655.9	78566.6	78668.2	77750.4	77792.5
65448.8	12.5°	65673.0	65942.7	66051.3	66363.0	65827.1	65249.1	64541.6	64401.5	63963.6
48915.8	15°	49619.9	50390.5	49728.5	50859.9	50313.4	49711.0	49602.4	48516.5	48859.8
35479.3	17.5°	35304.2	36155.3	36421.5	37069.6	36572.2	36214.9	35763.0	35433.8	35409.2
24838.0	20°	25034.1	25888.8	26084.9	26862.6	26806.5	26694.4	26312.6	25895.8	25443.9
16907.8	22.5°	17163.5	17860.5	18512.0	19559.3	19541.8	19212.6	19174.0	18585.6	18596.1
11422.5	25°	11541.5	12049.4	12203.6	13275.4	13394.5	13359.5	13159.8	12613.4	12820.0
6977.5	27.5°	6984.5	7429.3	7951.2	8329.5	8686.8	8630.8	8431.1	8126.4	7993.3
4192.8	30°	4304.9	4504.5	4697.2	5152.5	5366.2	5478.3	5383.7	5100.0	5121.0
2760.2	32.5°	2819.7	2987.8	3128.0	3415.2	3527.3	3733.9	3695.4	3635.8	3565.8
1986.1	35°	2056.1	2178.7	2273.3	2406.4	2550.0	2725.1	2753.2	2728.6	2700.6
1534.2	37.5°	1569.2	1695.3	1803.9	1860.0	1972.0	2108.7	2185.7	2182.2	2161.2
1250.5	40°	1275.0	1369.6	1467.7	1541.2	1618.3	1719.8	1814.4	1824.9	1824.9
1050.8	42.5°	1064.8	1145.4	1243.5	1320.5	1376.6	1471.2	1569.2	1576.2	1569.2
889.7	45°	910.7	980.8	1075.3	1166.4	1211.9	1282.0	1376.6	1397.6	1383.6
763.6	47.5°	791.6	854.7	935.2	1033.3	1082.3	1145.4	1233.0	1257.5	1254.0
658.5	50°	679.5	753.1	833.7	914.2	977.3	1036.8	1120.9	1148.9	1138.4
560.4	52.5°	599.0	665.5	735.6	823.1	896.7	949.2	1015.8	1064.8	1050.8
472.9	55°	500.9	581.5	655.0	728.6	819.6	875.7	938.7	998.3	984.3
399.3	57.5°	434.3	500.9	585.0	651.5	742.6	809.1	872.2	935.2	931.7
325.8	60°	364.3	434.3	514.9	585.0	669.0	742.6	805.6	875.7	882.7
245.2	62.5°	287.2	371.3	441.3	521.9	606.0	686.5	742.6	812.6	823.1
185.6	65°	217.2	304.7	381.8	458.9	542.9	630.5	679.5	739.1	749.6
136.6	67.5°	161.1	234.7	325.8	395.8	483.4	567.4	613.0	662.0	679.5
84.1	70°	122.6	178.6	273.2	339.8	430.8	497.4	546.4	588.5	602.5
56.0	72.5°	77.1	140.1	220.7	290.7	371.3	430.8	465.9	490.4	511.4
31.5	75°	52.5	108.6	178.6	248.7	308.2	353.8	385.3	406.3	423.8
14.0	77.5°	31.5	84.1	147.1	206.7	245.2	280.2	311.7	325.8	336.3
10.5	80°	17.5	63.0	122.6	168.1	192.7	217.2	241.7	259.2	266.2
7.0	82.5°	10.5	49.0	98.1	129.6	140.1	164.6	189.1	199.7	199.7
3.5	85°	7.0	35.0	66.6	94.6	101.6	119.1	126.1	133.1	140.1
3.5	87.5°	7.0	21.0	42.0	52.5	56.0	63.0	66.6	73.6	80.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
109902.1  
106290.8  
99569.0  
88913.7  
77382.6  
63564.3  
48516.5  
34757.7  
25247.8  
18392.9  
12494.3  
7877.7  
5029.9  
3541.3  
2690.1  
2150.7  
1803.9  
1562.2  
1383.6  
1247.0  
1131.4  
1047.3  
991.3  
935.2  
886.2  
830.2  
760.1  
686.5  
609.5  
507.9  
420.3  
332.8  
259.2  
196.2  
136.6  
77.1  
0.0

(END OF REPORT)