

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: P637496

Luminaire Tested: **IFLD-S-SA3A-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637496  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10544.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

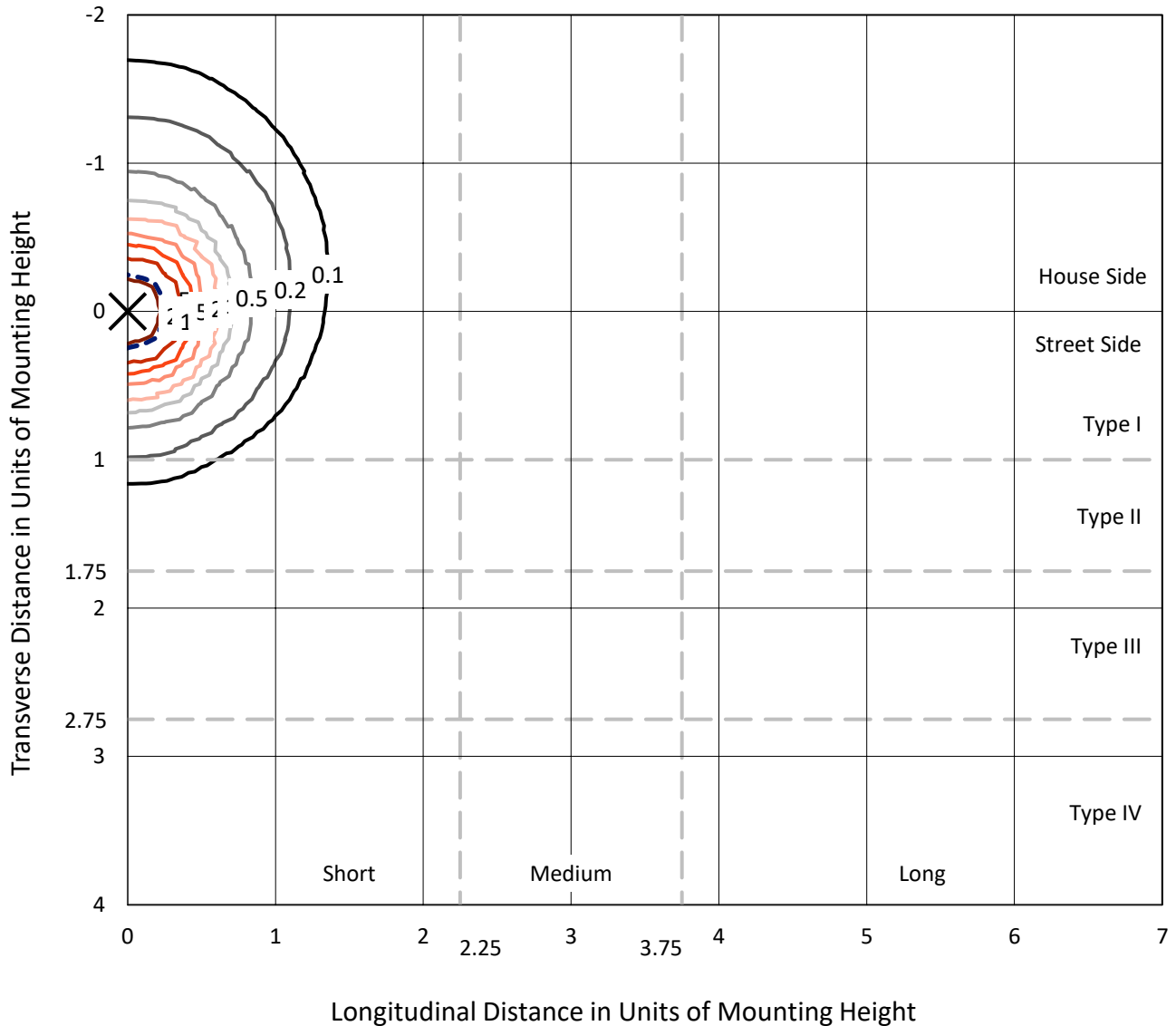
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637496  
 CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

### Iso-Footcandle Lines of Horizontal Illumination

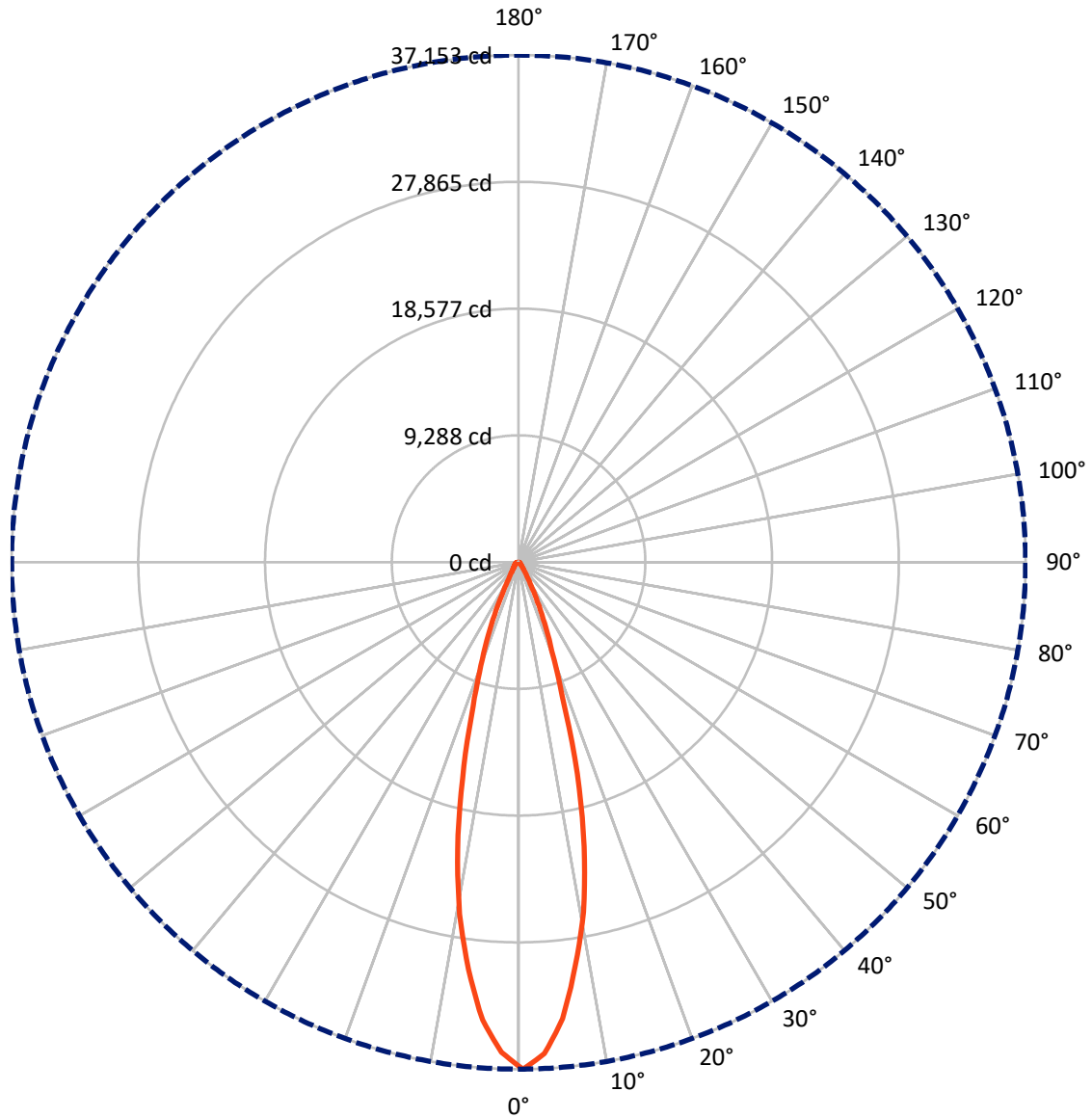
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 92.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P637496  
CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

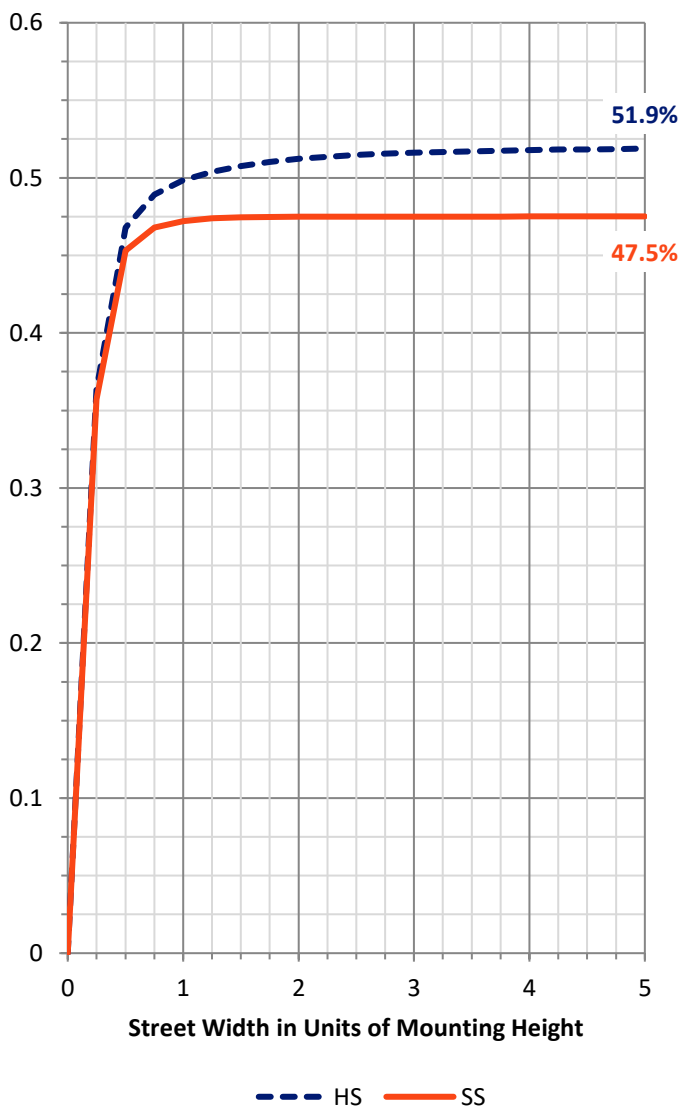
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5559.6	0.0	5559.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	4984.6	0.0	4984.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	10544.2	0.0	10544.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2998.6	28.4
10°-20°	4541.4	43.1
20°-30°	1916.5	18.2
30°-40°	499.8	4.7
40°-50°	252.8	2.4
50°-60°	165.2	1.6
60°-70°	99.0	0.9
70°-80°	52.1	0.5
80°-90°	18.8	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°	10544.2	100.0
0°-180°	10544.2	100.0



REPORT NUMBER: P637496

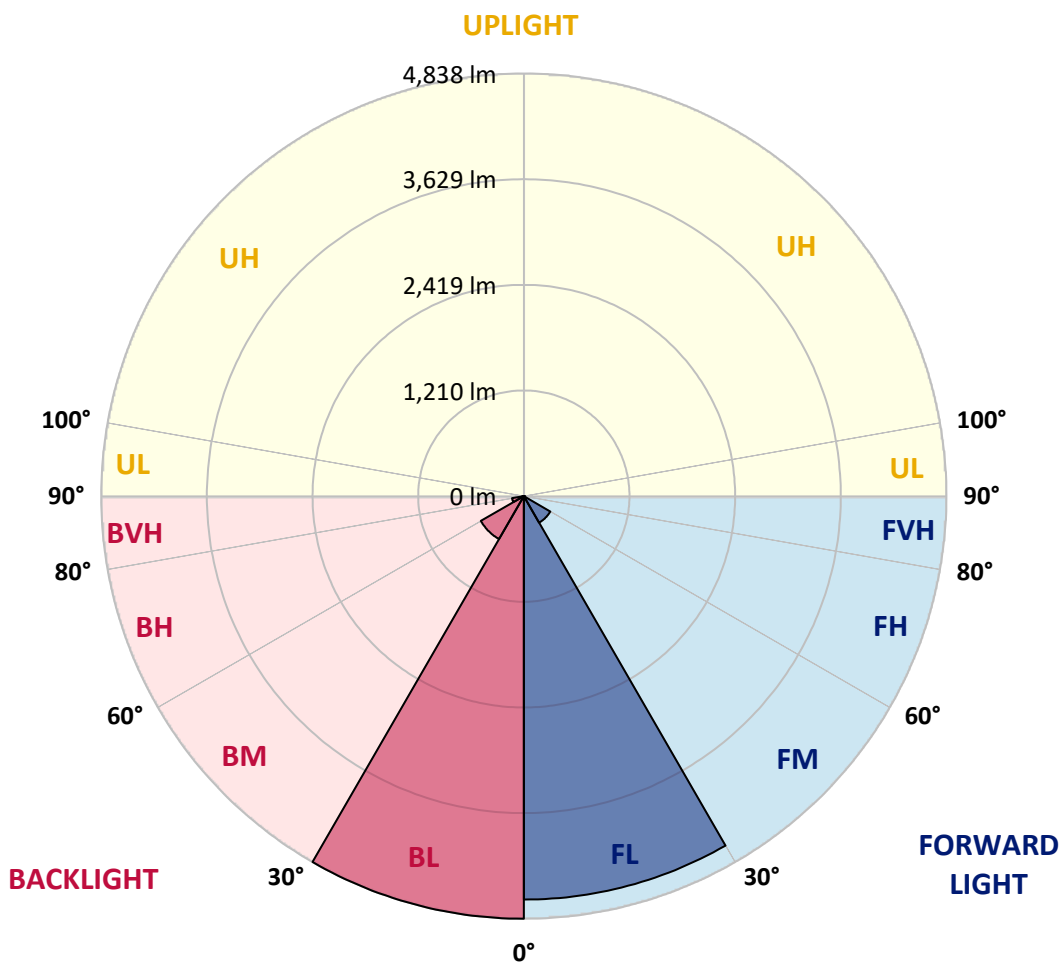
CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4618.3	43.8			
FM (30°-60°)	349.8	3.3			
FH (60°-80°)	14.3	0.1			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	4838.1	45.9	B4/5000		
BM (30°-60°)	568.1	5.4	B1/1000		
BH (60°-80°)	136.8	1.3	B1/500		G0/660
BVH (80°-90°)	16.5	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 V Short





REPORT NUMBER: P637496  
 CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37153.3	37153.3	37153.3	37153.3	37153.3	37153.3	37153.3	37153.3	37153.3	37153.3
2.5°	36071.0	36091.2	36016.6	36177.6	36052.1	36388.4	36221.4	36481.9	36394.3	36539.9
5°	33608.0	33574.9	33553.6	33803.4	33731.2	34092.3	33861.4	33785.6	34020.1	33977.5
7.5°	29888.7	29976.3	29926.6	29991.7	30028.4	30440.5	30570.7	30468.9	30472.4	30531.7
10°	26075.8	25946.7	25763.2	25885.1	26143.3	26323.2	26251.0	26400.2	26367.1	26508.0
12.5°	21384.2	21486.1	21383.1	21274.1	21725.3	21675.5	21801.1	21882.8	21677.9	22133.8
15°	16107.7	16161.0	16286.5	16278.3	16625.2	16695.1	16678.5	16764.9	16605.1	16680.9
17.5°	10348.1	10528.1	10865.6	11436.3	12078.1	12152.7	12133.8	12062.8	11985.8	11900.5
20°	6950.9	6931.9	7053.9	7220.8	8549.4	8901.1	8890.5	8667.8	8345.8	8284.2
22.5°	4869.1	4904.7	4888.1	5053.9	5328.6	6298.4	6178.8	5952.6	5847.2	5778.6
25°	3203.1	3190.1	3272.9	3322.7	3558.3	3676.7	4095.9	4011.8	3849.6	3867.4
27.5°	1952.6	1969.2	2000.0	2042.6	2209.6	2171.7	2410.9	2442.9	2390.8	2335.1
30°	1198.3	1210.2	1235.0	1265.8	1323.9	1282.4	1348.7	1463.6	1444.6	1405.6
32.5°	813.5	814.7	832.4	844.3	837.2	798.1	819.4	928.4	930.7	927.2
35°	585.0	585.0	601.5	611.0	590.9	558.9	562.5	630.0	659.6	665.5
37.5°	403.8	405.0	433.4	461.8	439.3	431.0	416.8	461.8	509.2	516.3
40°	306.7	305.5	319.7	341.0	343.4	328.0	332.7	361.2	409.7	415.6
42.5°	248.7	249.9	257.0	254.6	255.8	275.9	283.0	296.0	341.0	351.7
45°	209.6	210.8	214.3	202.5	197.8	228.5	238.0	245.1	283.0	296.0
47.5°	172.9	175.3	178.8	165.8	163.4	183.5	200.1	207.2	240.4	254.6
50°	124.3	126.7	139.7	132.6	139.7	144.5	167.0	177.6	200.1	219.1
52.5°	90.0	92.4	95.9	97.1	114.9	117.2	133.8	150.4	161.0	182.4
55°	71.0	73.4	71.0	68.7	84.1	97.1	103.0	120.8	129.1	153.9
57.5°	40.3	42.6	46.2	53.3	55.7	74.6	80.5	95.9	103.0	126.7
60°	7.1	8.3	13.0	32.0	39.1	47.4	60.4	73.4	82.9	99.5
62.5°	1.2	1.2	2.4	7.1	22.5	33.2	43.8	52.1	60.4	75.8
65°	0.0	0.0	1.2	2.4	5.9	18.9	23.7	30.8	41.4	54.5
67.5°	0.0	0.0	1.2	2.4	3.6	7.1	10.7	18.9	23.7	36.7
70°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	8.3	14.2	22.5
72.5°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	7.1	7.1	14.2
75°	0.0	0.0	1.2	2.4	3.6	5.9	7.1	7.1	5.9	5.9
77.5°	0.0	0.0	1.2	2.4	4.7	7.1	8.3	7.1	4.7	4.7
80°	0.0	0.0	2.4	3.6	5.9	8.3	10.7	8.3	4.7	2.4
82.5°	0.0	0.0	2.4	4.7	5.9	9.5	13.0	10.7	4.7	2.4
85°	0.0	0.0	1.2	3.6	7.1	9.5	13.0	9.5	4.7	1.2
87.5°	0.0	0.0	1.2	1.2	2.4	3.6	7.1	5.9	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637496

CATALOG NUMBER: IFLD-S-SA3A-830-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
<b>37153.3</b>	0°	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>	<b>37153.3</b>
36264.0	2.5°	36472.4	36661.9	36701.0	36648.9	36724.7	36588.5	36484.3	36214.3	36052.1
33964.5	5°	34183.5	34155.1	34352.8	34418.0	34409.7	34305.5	34159.8	33996.4	33837.8
30416.8	7.5°	30606.3	30643.0	30823.0	30937.8	30879.8	30749.5	30648.9	30525.7	30419.2
26558.9	10°	26801.6	26549.4	26773.2	26773.2	26928.3	26560.1	26594.4	26284.2	26298.4
22125.5	12.5°	22201.3	22292.5	22329.2	22434.6	22253.4	22058.0	21818.8	21771.4	21623.4
16536.4	15°	16774.4	17034.9	16811.1	17193.6	17008.9	16805.2	16768.5	16401.4	16517.5
11994.1	17.5°	11934.9	12222.6	12312.6	12531.7	12363.5	12242.7	12090.0	11978.7	11970.4
8396.7	20°	8463.0	8751.9	8818.2	9081.1	9062.2	9024.3	8895.2	8754.3	8601.5
5715.8	22.5°	5802.2	6037.9	6258.1	6612.2	6606.3	6495.0	6481.9	6283.0	6286.6
3861.5	25°	3901.7	4073.4	4125.5	4487.9	4528.1	4516.3	4448.8	4264.1	4333.9
2358.8	27.5°	2361.2	2511.5	2688.0	2815.9	2936.6	2917.7	2850.2	2747.2	2702.2
1417.4	30°	1455.3	1522.8	1587.9	1741.9	1814.1	1852.0	1820.0	1724.1	1731.2
933.1	32.5°	953.2	1010.1	1057.4	1154.5	1192.4	1262.3	1249.3	1229.1	1205.4
671.4	35°	695.1	736.5	768.5	813.5	862.0	921.3	930.7	922.4	913.0
518.6	37.5°	530.5	573.1	609.8	628.8	666.7	712.8	738.9	737.7	730.6
422.7	40°	431.0	463.0	496.2	521.0	547.1	581.4	613.4	616.9	616.9
355.2	42.5°	360.0	387.2	420.4	446.4	465.4	497.3	530.5	532.9	530.5
300.8	45°	307.9	331.6	363.5	394.3	409.7	433.4	465.4	472.5	467.7
258.1	47.5°	267.6	288.9	316.2	349.3	365.9	387.2	416.8	425.1	423.9
222.6	50°	229.7	254.6	281.8	309.1	330.4	350.5	378.9	388.4	384.8
189.5	52.5°	202.5	225.0	248.7	278.3	303.1	320.9	343.4	360.0	355.2
159.9	55°	169.3	196.6	221.4	246.3	277.1	296.0	317.3	337.5	332.7
135.0	57.5°	146.8	169.3	197.8	220.2	251.0	273.5	294.8	316.2	315.0
110.1	60°	123.1	146.8	174.1	197.8	226.2	251.0	272.4	296.0	298.4
82.9	62.5°	97.1	125.5	149.2	176.4	204.9	232.1	251.0	274.7	278.3
62.8	65°	73.4	103.0	129.1	155.1	183.5	213.1	229.7	249.9	253.4
46.2	67.5°	54.5	79.3	110.1	133.8	163.4	191.8	207.2	223.8	229.7
28.4	70°	41.4	60.4	92.4	114.9	145.6	168.1	184.7	198.9	203.7
18.9	72.5°	26.1	47.4	74.6	98.3	125.5	145.6	157.5	165.8	172.9
10.7	75°	17.8	36.7	60.4	84.1	104.2	119.6	130.3	137.4	143.3
4.7	77.5°	10.7	28.4	49.7	69.9	82.9	94.7	105.4	110.1	113.7
3.6	80°	5.9	21.3	41.4	56.8	65.1	73.4	81.7	87.6	90.0
2.4	82.5°	3.6	16.6	33.2	43.8	47.4	55.7	63.9	67.5	67.5
1.2	85°	2.4	11.8	22.5	32.0	34.3	40.3	42.6	45.0	47.4
1.2	87.5°	2.4	7.1	14.2	17.8	18.9	21.3	22.5	24.9	27.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
37153.3
35932.5
33660.1
30058.0
26159.8
21488.4
16401.4
11750.1
8535.2
6217.9
4223.8
2663.1
1700.4
1197.2
909.4
727.1
609.8
528.1
467.7
421.6
382.5
354.1
335.1
316.2
299.6
280.6
257.0
232.1
206.0
171.7
142.1
112.5
87.6
66.3
46.2
26.1
0.0

(END OF REPORT)