

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: P636666

Luminaire Tested: **IFLD-M-SA4B-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636666
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13140.5 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

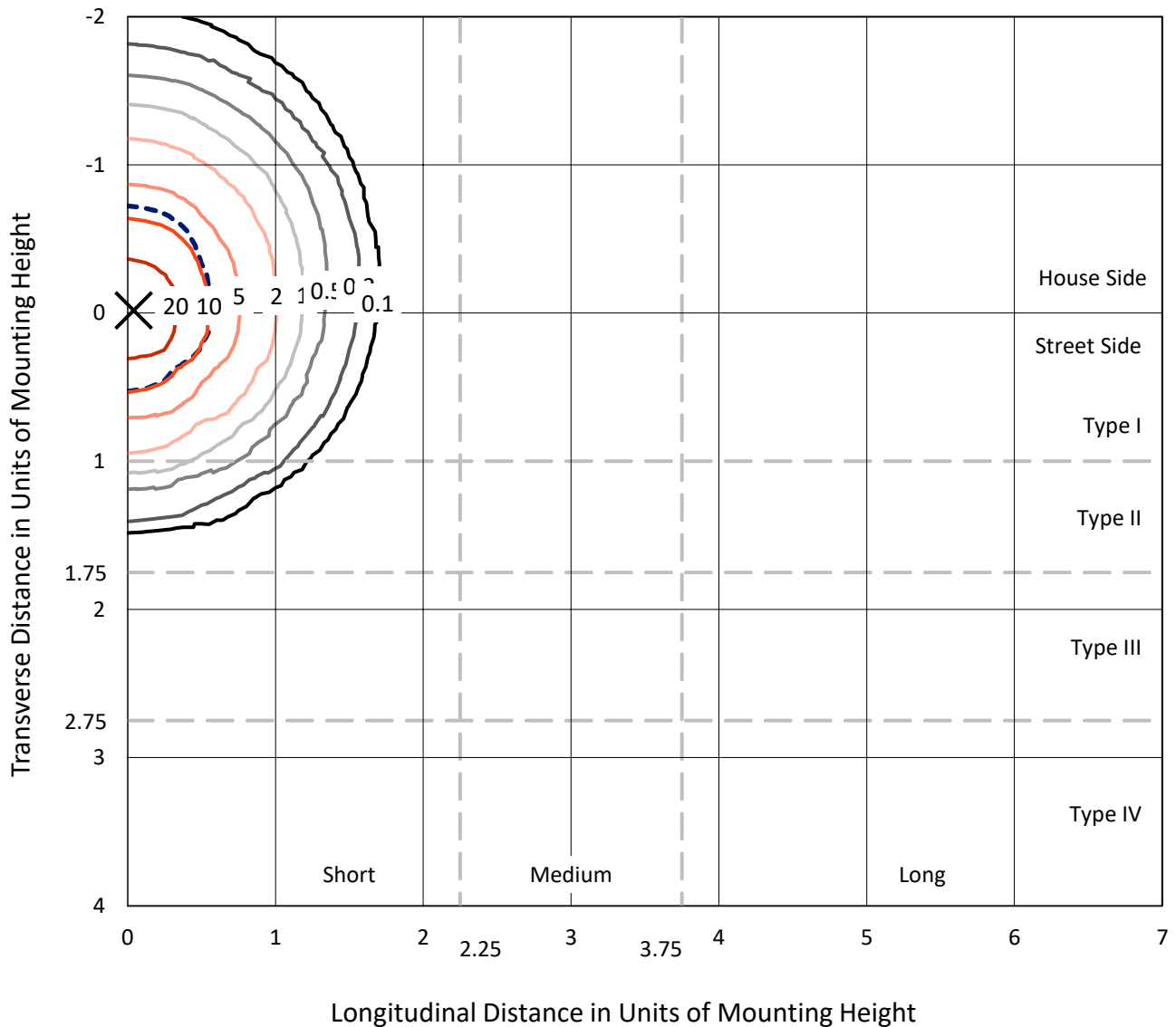
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

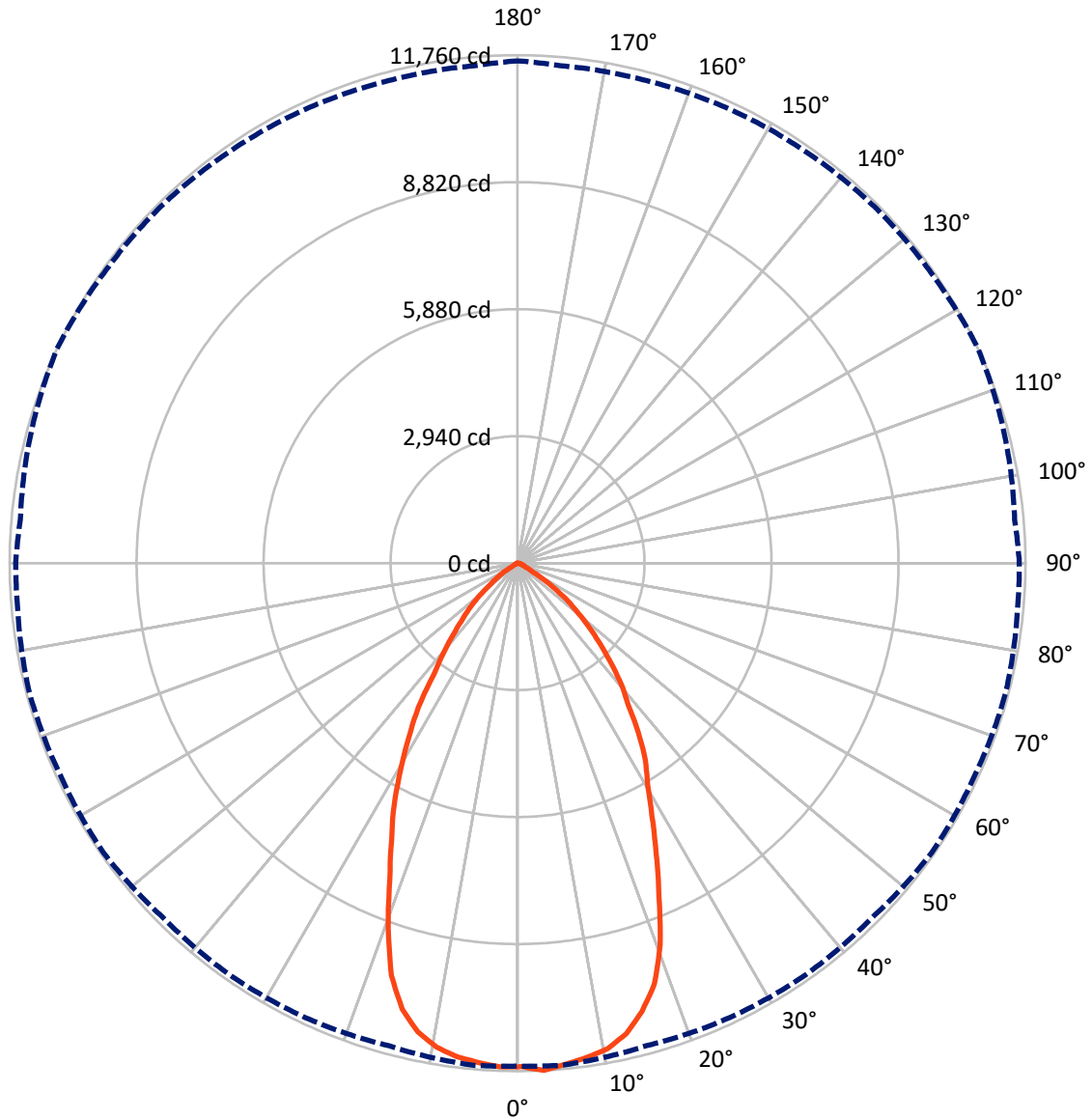
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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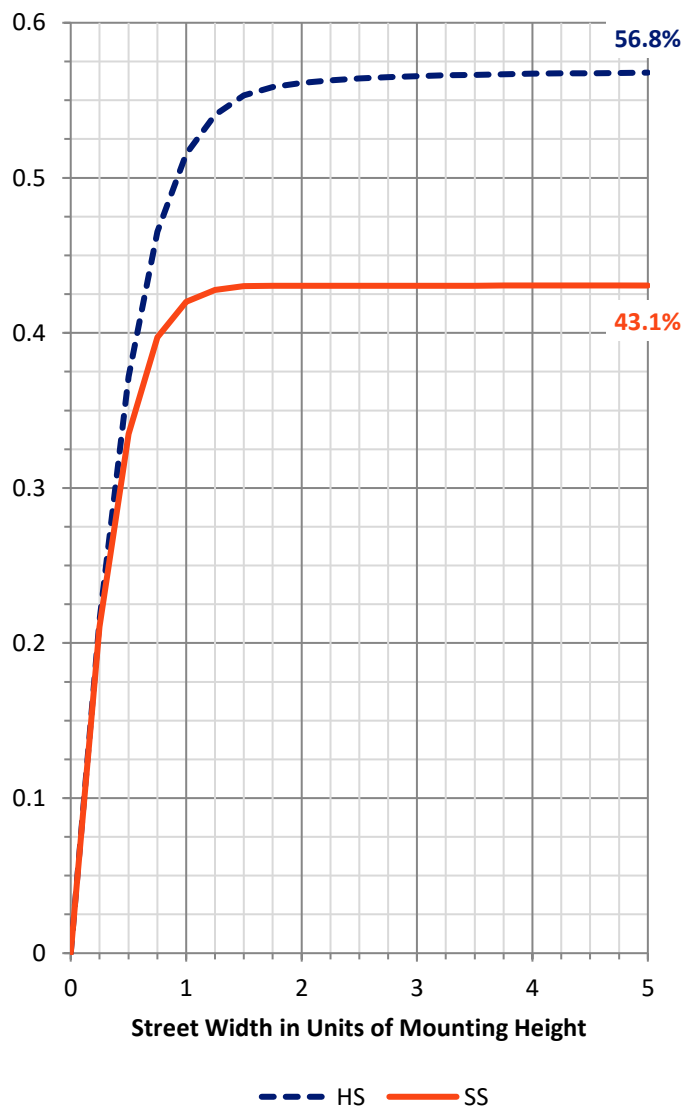
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7520.1	0.0	7520.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	5620.4	0.0	5620.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	13140.5	0.0	13140.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.1	8.4
10°-20°	2911.7	22.2
20°-30°	3330.3	25.3
30°-40°	2854.0	21.7
40°-50°	1887.2	14.4
50°-60°	823.5	6.3
60°-70°	161.8	1.2
70°-80°	58.4	0.4
80°-90°	15.5	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°	13140.5	100.0
0°-180°	13140.5	100.0



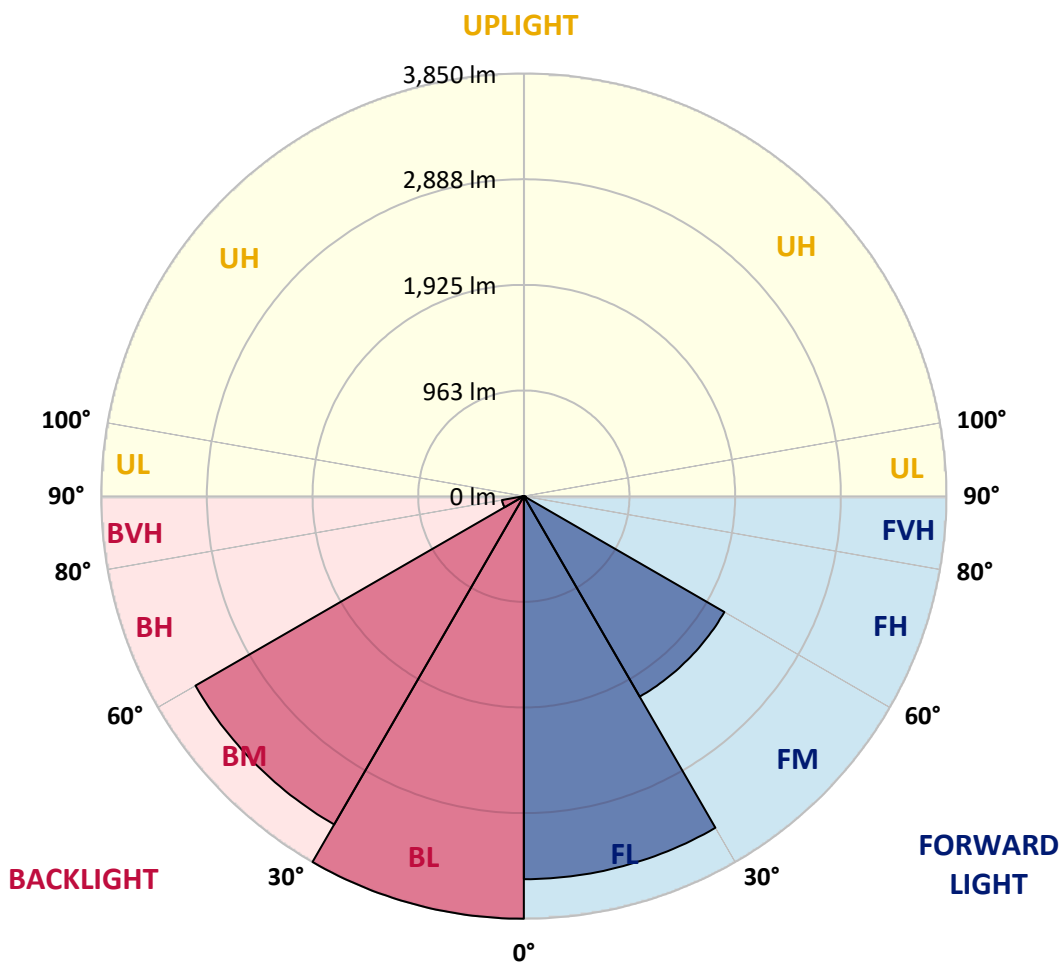
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3489.8	26.6			
FM (30°-60°)	2110.1	16.1			
FH (60°-80°)	17.9	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	3850.3	29.3	B4/5000		
BM (30°-60°)	3454.6	26.3	B3/5000		
BH (60°-80°)	202.3	1.5	B1/500		G1/500
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9
2.5°	11642.2	11670.1	11563.9	11611.4	11631.0	11605.8	11698.0	11670.1	11692.4	11622.6
5°	11642.2	11670.1	11547.2	11569.5	11575.1	11527.6	11628.2	11594.7	11597.5	11524.8
7.5°	11569.5	11603.1	11491.3	11508.1	11510.9	11471.8	11558.4	11510.9	11494.1	11418.7
10°	11374.0	11393.6	11293.0	11334.9	11374.0	11337.7	11413.1	11360.0	11360.0	11293.0
12.5°	11064.0	11100.3	10988.5	11038.8	11072.3	11030.4	11117.0	11097.5	11100.3	11033.2
15°	10499.7	10374.0	10508.1	10608.7	10611.5	10603.1	10684.1	10664.5	10678.5	10577.9
17.5°	7756.8	7726.1	7882.5	9069.6	9952.3	10072.4	10086.3	9980.2	9932.7	9834.9
20°	7187.0	7209.3	7175.8	7181.4	7876.9	9321.0	9234.4	8971.8	8851.7	8754.0
22.5°	6770.8	6734.5	6712.1	6698.2	6717.7	7659.0	8281.9	7885.3	7821.0	7773.5
25°	6318.3	6301.5	6273.6	6268.0	6256.8	6097.6	6994.2	7030.5	6927.2	6868.5
27.5°	5896.5	5885.3	5854.6	5851.8	5723.3	5337.9	5435.6	6298.7	6270.8	6248.4
30°	5446.8	5424.4	5407.7	5407.7	5019.4	4622.8	4463.6	5491.5	5491.5	5471.9
32.5°	4958.0	4938.4	4944.0	4877.0	4413.3	4050.2	3798.8	4740.1	5033.4	5016.6
35°	3030.6	3025.1	3592.1	4337.9	3793.2	3463.6	3446.8	4055.8	4483.1	4527.8
37.5°	2698.3	2681.5	2689.9	2737.4	3248.5	3117.2	3111.7	3215.0	3815.5	3837.9
40°	2421.7	2410.6	2402.2	2231.8	2069.8	2782.1	2762.5	2695.5	3259.7	3298.8
42.5°	2159.2	2148.0	2148.0	1907.8	1645.2	2287.7	2296.0	2217.8	2748.5	2762.5
45°	1888.2	1879.8	1832.4	1522.3	1446.9	1519.5	1902.2	1812.8	2181.5	2326.8
47.5°	891.0	885.5	1282.1	1265.3	1259.7	1215.1	1452.5	1502.8	1731.8	1877.0
50°	715.1	709.5	676.0	595.0	1036.3	921.8	1047.5	1156.4	1229.0	1363.1
52.5°	592.2	586.6	516.7	458.1	575.4	673.2	625.7	773.7	770.9	916.2
55°	388.3	360.3	396.6	374.3	301.7	488.8	477.6	586.6	572.6	698.3
57.5°	8.4	8.4	19.6	212.3	189.9	206.7	273.7	335.2	377.1	413.4
60°	2.8	2.8	5.6	11.2	78.2	86.6	106.1	122.9	173.2	215.1
62.5°	0.0	0.0	2.8	5.6	11.2	44.7	50.3	58.7	81.0	111.7
65°	0.0	0.0	0.0	2.8	5.6	11.2	16.8	36.3	50.3	64.2
67.5°	0.0	0.0	0.0	2.8	2.8	5.6	11.2	16.8	22.3	44.7
70°	0.0	0.0	0.0	2.8	2.8	5.6	8.4	11.2	16.8	22.3
72.5°	0.0	0.0	0.0	2.8	2.8	8.4	5.6	8.4	11.2	14.0
75°	0.0	0.0	0.0	2.8	2.8	2.8	5.6	8.4	8.4	11.2
77.5°	0.0	0.0	0.0	2.8	5.6	5.6	5.6	5.6	5.6	8.4
80°	0.0	0.0	0.0	2.8	2.8	5.6	8.4	11.2	5.6	5.6
82.5°	0.0	0.0	0.0	5.6	2.8	11.2	16.8	14.0	5.6	2.8
85°	0.0	0.0	0.0	2.8	11.2	14.0	14.0	8.4	2.8	2.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	8.4	8.4	2.8	2.8
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°
11658.9	0°	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9	11658.9
11617.0	2.5°	11552.8	11661.7	11759.5	11698.0	11675.7	11631.0	11597.5	11561.2	11558.4
11516.5	5°	11452.2	11555.6	11650.5	11577.9	11583.5	11561.2	11538.8	11530.4	11536.0
11413.1	7.5°	11365.6	11452.2	11555.6	11494.1	11510.9	11496.9	11485.7	11469.0	11494.1
11279.0	10°	11234.3	11312.6	11432.7	11374.0	11365.6	11351.7	11340.5	11309.8	11323.7
11036.0	12.5°	10946.6	11044.4	11181.3	11114.2	11136.6	11097.5	11080.7	11061.2	11064.0
10614.3	15°	10555.6	10631.0	10770.7	10717.6	10734.4	10709.2	10709.2	10709.2	10728.8
9848.9	17.5°	9874.0	10027.7	10248.3	10181.3	10206.4	10212.0	10206.4	10226.0	10251.1
8759.5	20°	8765.1	9027.7	9429.9	9561.2	9614.3	9617.1	9578.0	9625.4	9675.7
7740.0	22.5°	7745.6	8022.1	8376.9	8737.2	8960.7	8949.5	8955.1	8985.8	9038.9
6832.2	25°	6863.0	7128.3	7449.5	7770.7	8259.6	8360.1	8362.9	8390.8	8432.7
6212.1	27.5°	6226.1	6329.4	6622.7	6946.7	7471.9	7793.1	7776.3	7801.5	7846.2
5435.6	30°	5458.0	5854.6	5921.6	6120.0	6572.5	7161.8	7164.6	7192.6	7237.2
4977.5	32.5°	4963.6	5226.1	5432.8	5438.4	5823.9	6430.0	6550.1	6578.0	6608.8
4502.7	35°	4499.9	4530.6	4809.9	4888.1	5111.6	5712.1	5924.4	5941.2	5991.5
3829.5	37.5°	3893.8	4075.3	4153.5	4432.8	4444.0	4930.0	5351.8	5335.1	5374.2
3296.0	40°	3337.9	3511.1	3709.4	3913.3	3941.2	4304.4	4770.8	4787.6	4804.3
2734.6	42.5°	2756.9	2977.6	3181.5	3318.3	3508.3	3717.8	4161.9	4240.1	4279.2
2343.5	45°	2385.4	2446.9	2689.9	2891.0	3083.7	3181.5	3597.7	3740.1	3765.3
1854.7	47.5°	1879.8	2086.5	2251.3	2421.7	2661.9	2748.5	3050.2	3248.5	3268.1
1377.1	50°	1452.5	1600.5	1826.8	1980.4	2259.7	2307.2	2513.9	2770.9	2796.0
921.8	52.5°	1039.1	1240.2	1460.9	1608.9	1877.0	1938.5	2092.1	2337.9	2354.7
706.7	55°	745.8	877.1	1058.6	1270.9	1466.4	1603.3	1709.5	1944.1	1966.4
463.7	57.5°	508.4	631.3	706.7	919.0	1036.3	1184.3	1270.9	1449.7	1466.4
220.7	60°	243.0	301.7	360.3	466.5	541.9	667.6	723.4	796.1	815.6
134.1	62.5°	156.4	184.4	234.6	279.3	351.9	430.2	452.5	514.0	536.3
83.8	65°	103.3	131.3	184.4	195.5	268.1	329.6	357.5	402.2	427.4
50.3	67.5°	58.7	92.2	136.9	162.0	212.3	270.9	301.7	340.8	363.1
33.5	70°	39.1	75.4	108.9	134.1	167.6	217.9	257.0	290.5	304.5
16.8	72.5°	22.3	47.5	75.4	106.1	134.1	181.6	217.9	245.8	162.0
11.2	75°	14.0	36.3	64.2	89.4	111.7	145.2	176.0	173.2	72.6
8.4	77.5°	11.2	27.9	55.9	75.4	92.2	100.6	125.7	142.5	55.9
5.6	80°	8.4	22.3	50.3	64.2	36.3	72.6	97.8	106.1	39.1
5.6	82.5°	5.6	14.0	41.9	44.7	25.1	53.1	78.2	69.8	27.9
2.8	85°	2.8	8.4	14.0	25.1	22.3	25.1	19.6	27.9	19.6
2.8	87.5°	2.8	5.6	11.2	11.2	11.2	8.4	11.2	11.2	11.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11658.9
<i>11625.4</i>
11605.8
11563.9
11390.8
11145.0
10737.2
10334.9
9709.2
9047.3
8505.4
7888.1
7315.5
6678.6
6044.5
5421.6
4857.4
4335.1
3826.7
3315.6
2832.3
2385.4
1986.0
1500.0
838.0
541.9
427.4
360.3
301.7
131.3
72.6
55.9
41.9
27.9
19.6
11.2
0.0

(END OF REPORT)