

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: P638197

Luminaire Tested: **IFLD-S-SA6A-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638197  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21235.7 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

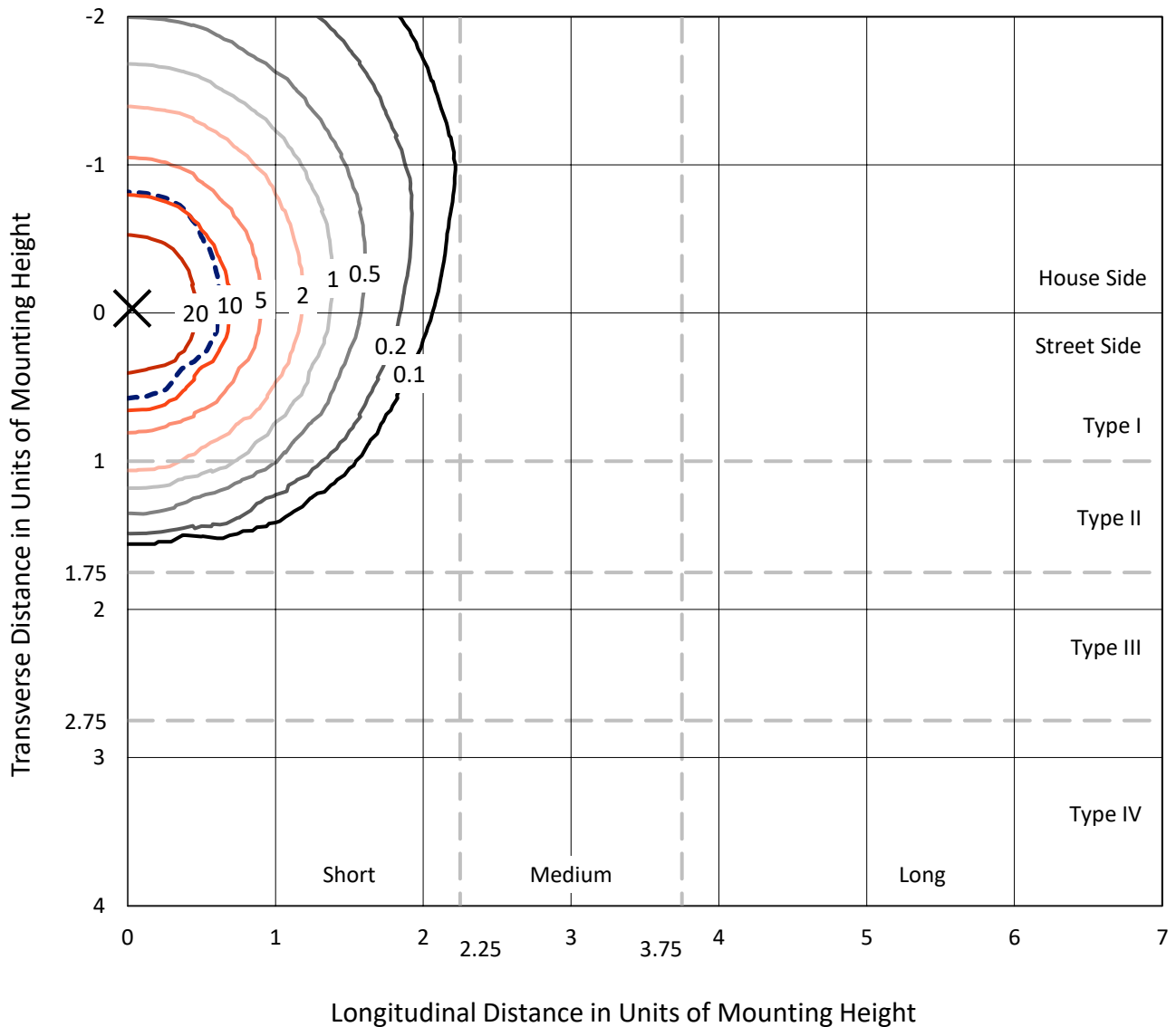
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

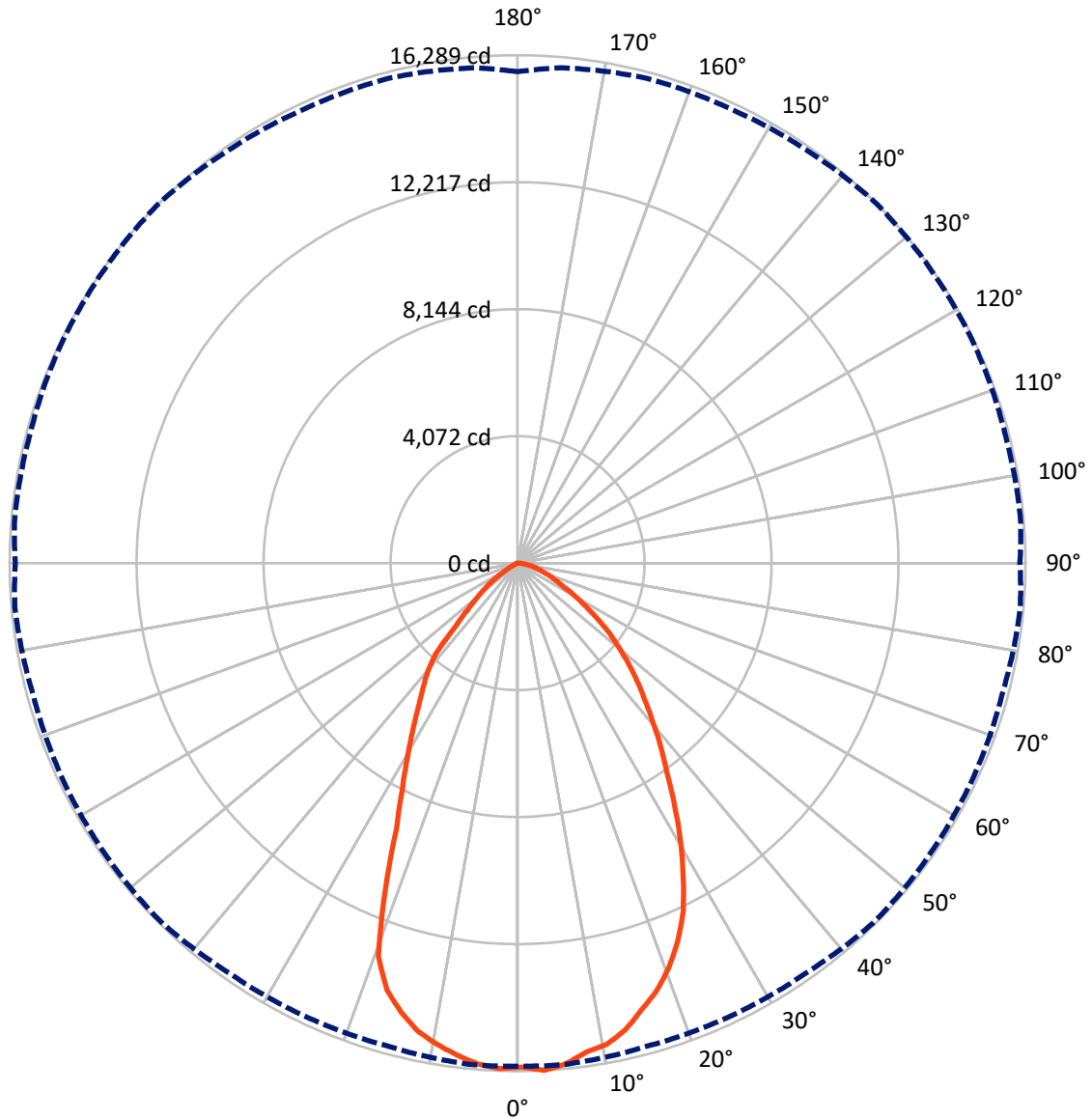
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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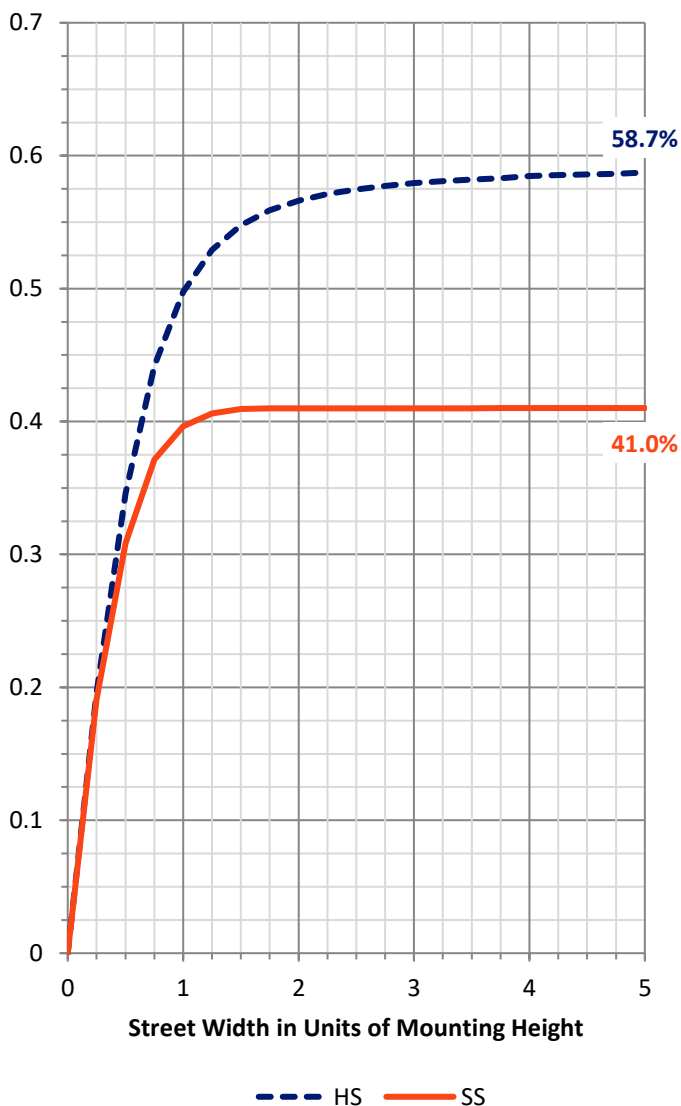
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12576.8	0.0	12576.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8658.8	0.0	8658.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21235.7	0.0	21235.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1515.6	7.1
10°-20°	4064.1	19.1
20°-30°	4956.4	23.3
30°-40°	4525.2	21.3
40°-50°	3270.2	15.4
50°-60°	1785.6	8.4
60°-70°	738.3	3.5
70°-80°	299.0	1.4
80°-90°	81.3	0.4
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°	21235.7	100.0
0°-180°	21235.7	100.0



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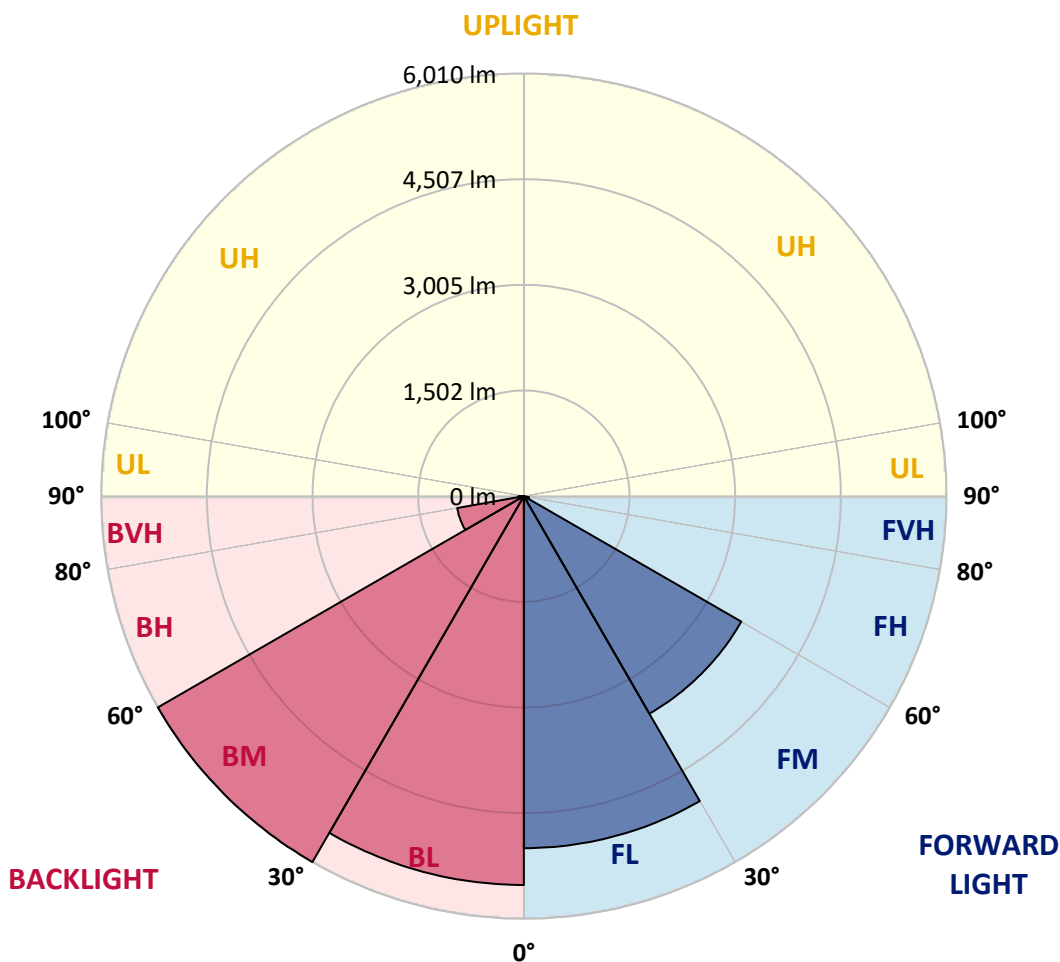
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5006.0	23.6			
FM (30°-60°)	3571.4	16.8			
FH (60°-80°)	74.8	0.4			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	5530.1	26.0	B5		
BM (30°-60°)	6009.5	28.3	B4/8500		
BH (60°-80°)	962.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	74.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3
2.5°	16130.4	16151.3	16037.7	16049.6	16070.5	16223.1	16184.2	16148.3	16097.5	16184.2
5°	16109.4	16121.4	16001.8	15959.9	15977.8	16115.4	15989.8	15989.8	15977.8	15962.9
7.5°	15947.9	15953.9	15861.2	15786.5	15834.3	15897.1	15804.4	15849.3	15783.5	15834.3
10°	15705.7	15666.8	15556.2	15535.3	15589.1	15648.9	15586.1	15628.0	15568.2	15607.0
12.5°	15349.9	15290.0	15200.3	15173.4	15266.1	15346.9	15296.0	15272.1	15194.4	15290.0
15°	13977.3	13932.4	14135.7	14491.6	14811.6	14880.4	14826.5	14850.5	14689.0	14715.9
17.5°	11504.2	11420.4	11638.7	12482.0	13684.2	14318.2	14270.3	14114.8	13875.6	13929.4
20°	10454.5	10430.6	10406.7	10607.0	11447.4	13370.2	13436.0	13041.2	12700.3	12625.6
22.5°	9862.4	9853.5	9829.5	9874.4	10095.7	11330.7	12084.3	11719.5	11492.2	11471.3
25°	9321.2	9306.2	9234.4	9291.3	9291.3	9363.0	10328.9	10550.2	10349.9	10325.9
27.5°	8770.9	8744.0	8732.0	8759.0	8621.4	8136.9	8382.2	9461.7	9357.0	9363.0
30°	8175.8	8166.9	8134.0	8190.8	7766.1	7165.1	7009.6	8474.9	8495.8	8489.8
32.5°	7290.7	7329.5	7479.1	7541.9	6842.1	6345.7	6085.5	7332.5	7760.2	7751.2
35°	5296.0	5296.0	5783.5	6689.6	5995.8	5622.0	5481.5	6217.1	7033.5	7063.4
37.5°	4354.1	4369.0	4464.7	4877.4	5173.4	5041.9	5000.0	5233.2	6100.5	6148.3
40°	3917.5	3917.5	3917.5	3747.0	3738.0	4542.5	4518.5	4443.8	5269.1	5373.8
42.5°	3519.7	3528.7	3534.7	3104.1	2864.8	3926.4	3872.6	3759.0	4524.5	4647.1
45°	3110.0	3125.0	3142.9	2595.7	2491.0	2826.0	3277.5	3151.9	3788.9	3947.4
47.5°	1898.9	1922.8	2329.5	2201.0	2212.9	2180.0	2673.4	2652.5	3107.1	3331.3
50°	1282.9	1291.9	1330.7	1396.5	1898.9	1713.5	1892.9	2195.0	2359.4	2700.4
52.5°	1076.6	1091.5	995.8	906.1	1247.0	1339.7	1321.8	1629.8	1695.6	2117.2
55°	756.6	804.4	759.6	750.6	708.7	1040.7	1001.8	1253.0	1294.9	1608.8
57.5°	77.8	89.7	155.5	559.2	463.5	589.1	714.7	918.1	959.9	1187.2
60°	6.0	6.0	15.0	77.8	337.9	352.9	493.4	565.2	645.9	828.3
62.5°	0.0	3.0	6.0	12.0	53.8	188.4	248.2	296.1	388.8	535.3
65°	0.0	0.0	3.0	9.0	12.0	71.8	95.7	155.5	212.3	331.9
67.5°	0.0	0.0	3.0	6.0	9.0	17.9	32.9	56.8	113.6	188.4
70°	0.0	0.0	3.0	6.0	9.0	15.0	23.9	35.9	50.8	101.7
72.5°	0.0	0.0	3.0	3.0	6.0	15.0	17.9	23.9	35.9	50.8
75°	0.0	0.0	3.0	3.0	9.0	17.9	15.0	17.9	23.9	32.9
77.5°	0.0	0.0	3.0	6.0	9.0	17.9	15.0	17.9	17.9	20.9
80°	0.0	0.0	3.0	6.0	12.0	20.9	17.9	17.9	15.0	15.0
82.5°	0.0	0.0	3.0	9.0	12.0	26.9	26.9	23.9	12.0	9.0
85°	0.0	0.0	6.0	12.0	17.9	29.9	29.9	23.9	9.0	6.0
87.5°	0.0	0.0	6.0	9.0	15.0	20.9	29.9	23.9	9.0	3.0
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°
16160.3	0°	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3	16160.3
16109.4	2.5°	16190.2	16172.2	16232.0	16256.0	16288.9	16163.3	16085.5	16088.5	15945.0
15927.0	5°	16022.7	16025.7	16103.4	16097.5	16130.4	16061.6	16031.7	15980.8	15855.2
15696.7	7.5°	15810.4	15783.5	15858.2	15915.0	15831.3	15879.2	15810.4	15834.3	15759.5
15493.4	10°	15645.9	15583.1	15651.9	15690.8	15693.8	15645.9	15580.1	15517.3	15490.4
15176.4	12.5°	15281.1	15200.3	15317.0	15370.8	15361.8	15269.1	15194.4	15209.3	15122.6
14620.2	15°	14778.7	14781.7	14865.4	14916.2	14868.4	14847.5	14853.4	14817.6	14742.8
13851.7	17.5°	14010.1	14055.0	14276.3	14398.9	14425.8	14383.9	14363.0	14321.2	14246.4
12625.6	20°	12730.2	12999.4	13394.1	13773.9	13848.7	13836.7	13761.9	13744.0	13702.1
11411.5	22.5°	11605.8	11806.2	12263.7	12855.8	13160.9	13190.8	13101.1	13074.1	13029.3
10325.9	25°	10442.6	10657.9	11070.6	11713.5	12344.5	12473.1	12458.1	12377.4	12329.5
9363.0	27.5°	9461.7	9677.0	10050.8	10631.0	11306.8	11719.5	11758.4	11629.8	11626.8
8504.8	30°	8576.5	8872.6	9156.7	9629.2	10284.1	10903.1	10968.9	10879.2	10888.1
7718.3	32.5°	7882.8	8128.0	8370.2	8687.2	9231.4	9952.1	10209.3	10125.6	10092.7
7063.4	35°	7174.0	7341.5	7589.7	7879.8	8250.6	8965.3	9410.9	9348.1	9315.2
6178.2	37.5°	6366.6	6653.7	6833.1	7159.1	7449.2	8017.3	8645.3	8636.4	8567.6
5424.6	40°	5538.3	5840.3	6112.4	6441.4	6665.7	7117.2	7814.0	7811.0	7820.0
4644.1	42.5°	4787.7	5065.8	5394.7	5753.6	5968.9	6297.8	7045.4	7087.3	7138.1
4001.2	45°	4108.8	4360.0	4665.1	5101.7	5361.8	5550.2	6214.1	6405.5	6402.5
3427.0	47.5°	3498.8	3735.0	3992.2	4416.9	4748.8	4919.3	5469.5	5741.6	5723.7
2811.0	50°	2936.6	3145.9	3415.1	3723.1	4168.7	4318.2	4727.9	5086.7	5059.8
2239.8	52.5°	2362.4	2652.5	2879.8	3160.9	3630.4	3776.9	4093.9	4443.8	4422.8
1680.6	55°	1842.1	2123.2	2398.3	2640.5	3035.3	3253.6	3480.9	3839.7	3833.7
1315.8	57.5°	1393.5	1701.6	1961.7	2192.0	2506.0	2775.1	2957.5	3283.5	3325.4
900.1	60°	1031.7	1267.9	1549.0	1806.2	2054.4	2332.5	2455.1	2775.1	2793.1
616.0	62.5°	702.8	962.9	1238.0	1471.3	1656.7	1943.8	2054.4	2317.6	2350.5
394.7	65°	487.4	654.9	968.9	1136.4	1363.6	1608.8	1719.5	1928.8	1994.6
227.3	67.5°	323.0	466.5	756.6	909.1	1133.4	1300.8	1441.4	1611.8	1683.6
143.5	70°	176.4	343.9	541.3	717.7	912.1	1073.6	1211.1	1348.7	1411.5
65.8	72.5°	119.6	230.3	376.8	568.2	735.6	894.1	1016.7	1118.4	1121.4
38.9	75°	59.8	155.5	287.1	439.6	574.2	729.7	840.3	900.1	828.3
23.9	77.5°	35.9	113.6	233.3	352.9	466.5	589.1	651.9	684.8	568.2
17.9	80°	20.9	80.7	182.4	281.1	323.0	433.6	493.4	502.4	379.8
12.0	82.5°	15.0	59.8	143.5	206.3	197.4	305.0	370.8	358.9	242.2
9.0	85°	9.0	41.9	89.7	128.6	119.6	200.4	215.3	221.3	140.6
6.0	87.5°	6.0	23.9	47.8	68.8	56.8	86.7	86.7	104.7	68.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16160.3  
*15759.5*  
15825.3  
15633.9  
15370.8  
15047.8  
14668.0  
14213.5  
13606.4  
13017.3  
12278.7  
11620.8  
10843.3  
10095.7  
9270.3  
8624.4  
7820.0  
7111.2  
6408.5  
5729.7  
5083.7  
4467.7  
3848.7  
3307.4  
2820.0  
2356.5  
1979.7  
1674.6  
1387.6  
1094.5  
774.5  
547.2  
355.9  
224.3  
128.6  
59.8  
0.0

(END OF REPORT)