

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: P636950

Luminaire Tested: **IFLD-S-SA6A-940-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636950  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-940-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

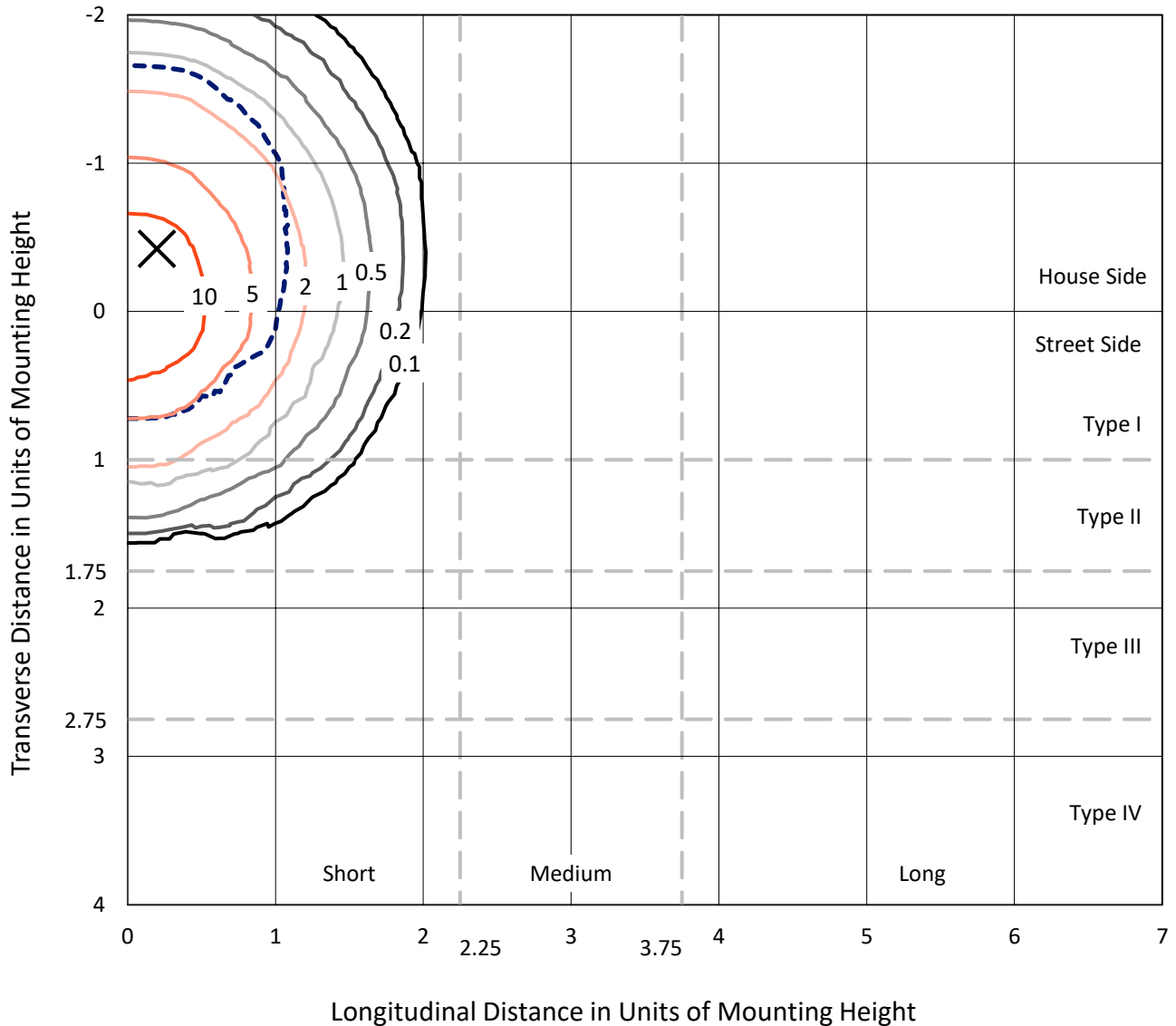
Lumens per Lamp: N/A  
Luminaire Lumens: 14374.3 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

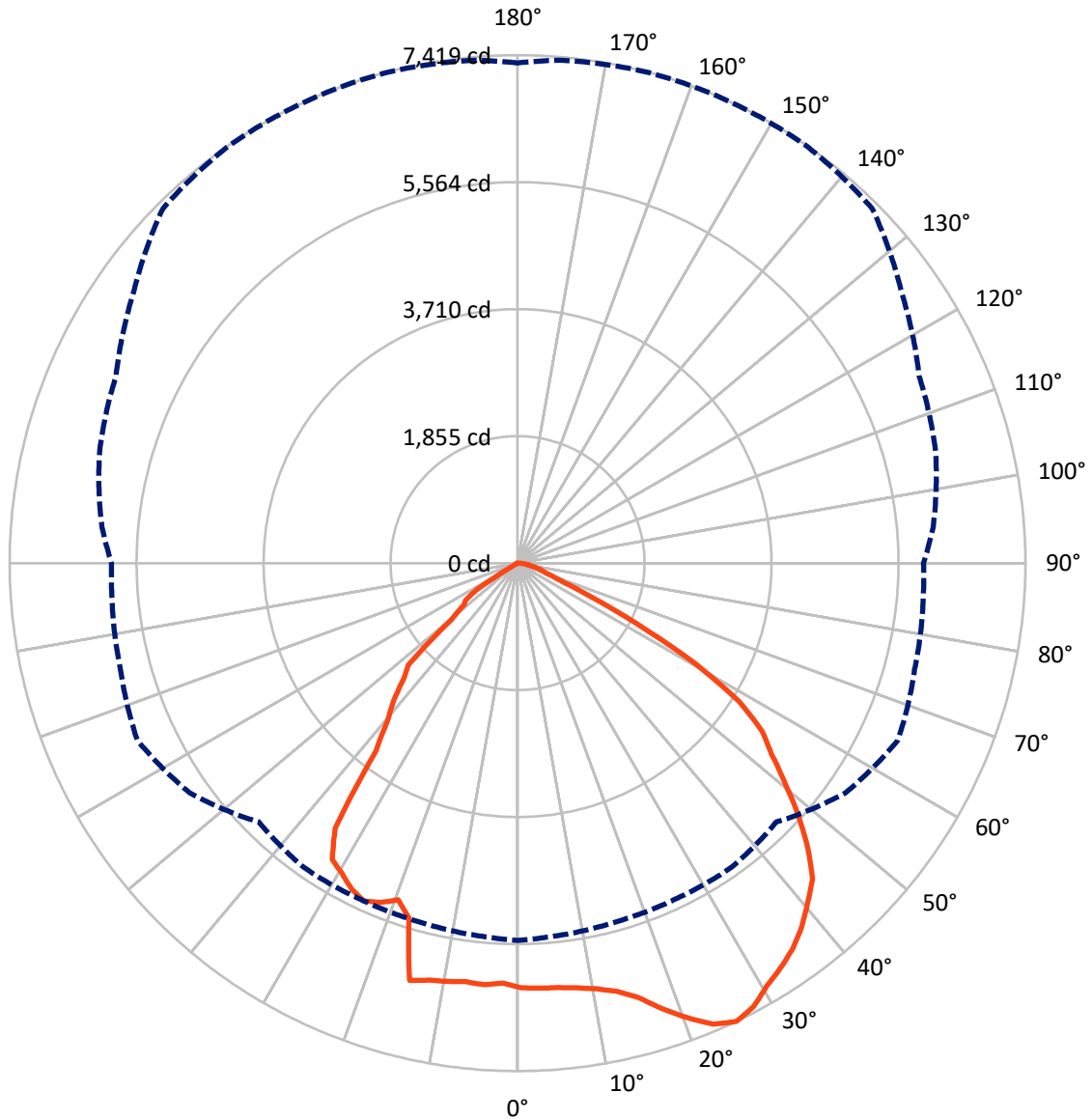
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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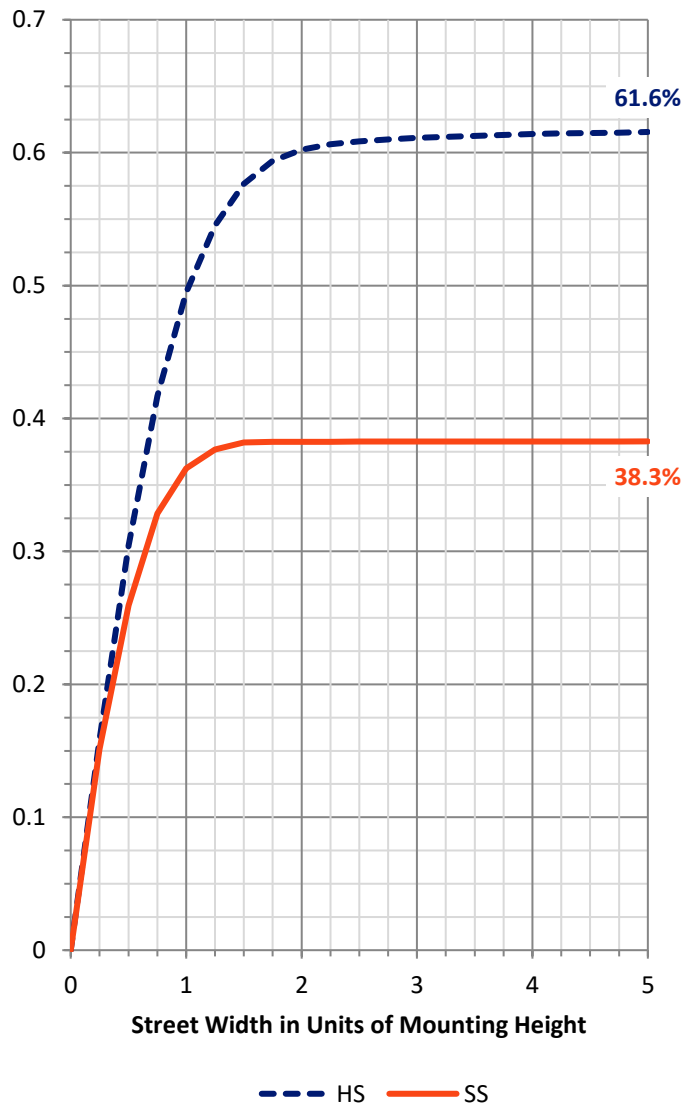
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8899.2	0.0	8899.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5475.1	0.0	5475.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	14374.3	0.0	14374.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.0	4.1
10°-20°	1816.9	12.6
20°-30°	2872.4	20.0
30°-40°	3244.6	22.6
40°-50°	3038.7	21.1
50°-60°	2094.9	14.6
60°-70°	562.8	3.9
70°-80°	117.3	0.8
80°-90°	31.7	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°	14374.3	100.0
0°-180°	14374.3	100.0



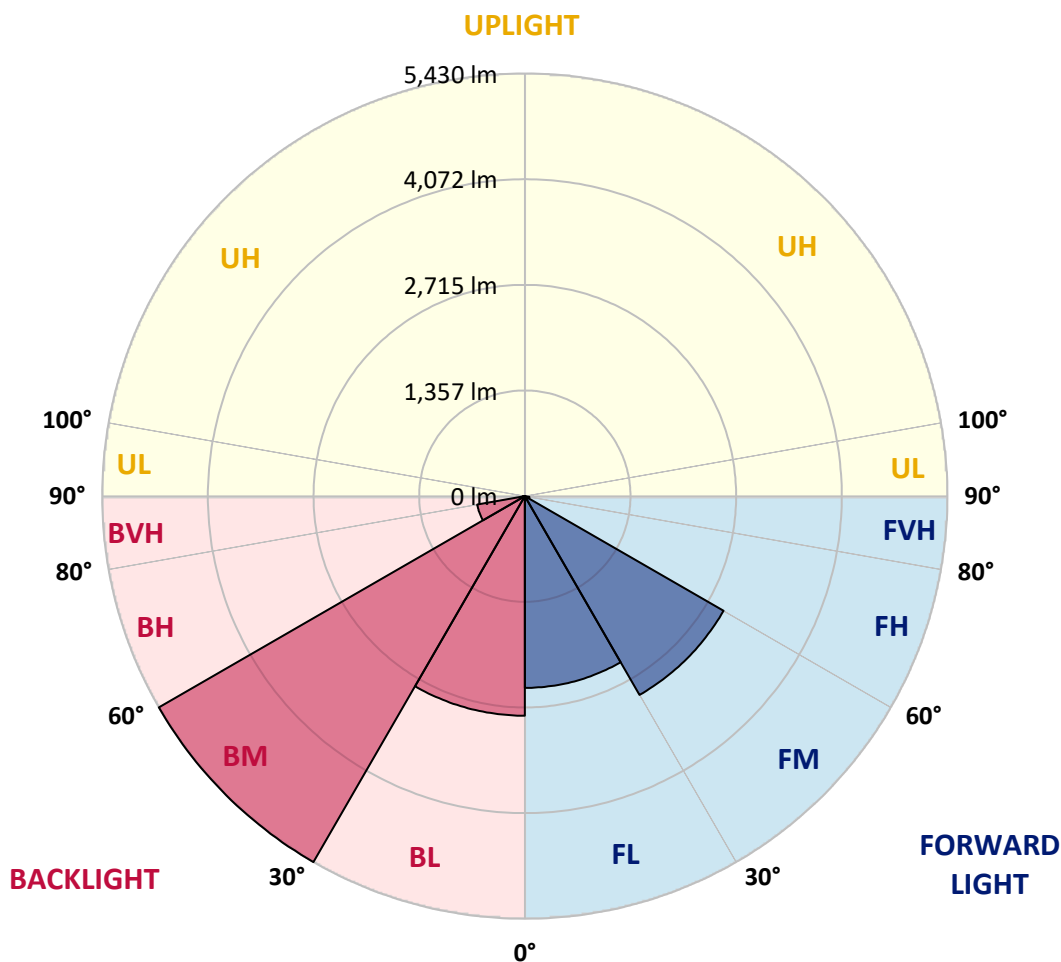
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 CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM-VI

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2463.3	17.1			
FM	(30°-60°)	2948.5	20.5			
FH	(60°-80°)	59.1	0.4			G0/660
FVH	(80°-90°)	4.2	0.0			G0/10
BL	(0°-30°)	2821.0	19.6	B4/5000		
BM	(30°-60°)	5429.7	37.8	B4/8500		
BH	(60°-80°)	621.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.5	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3
2.5°	6229.7	6189.6	6151.6	6138.9	6191.7	6248.8	6212.8	6215.0	6202.3	6225.5
5°	6276.2	6221.3	6195.9	6176.9	6185.4	6244.5	6193.8	6212.8	6191.7	6219.2
7.5°	6259.3	6221.3	6195.9	6160.0	6187.5	6257.2	6208.6	6210.7	6200.2	6225.5
10°	6248.8	6221.3	6189.6	6193.8	6225.5	6284.7	6246.6	6267.8	6253.0	6267.8
12.5°	6274.1	6244.5	6227.6	6227.6	6255.1	6322.7	6303.7	6322.7	6316.4	6329.0
15°	6035.4	6062.9	6223.4	6295.2	6350.2	6417.8	6409.3	6428.3	6432.5	6451.6
17.5°	5091.1	5063.7	5051.0	5420.7	6403.0	6612.1	6605.8	6603.7	6582.5	6567.7
20°	5215.8	5205.2	5190.4	5217.9	5327.7	6713.5	6755.8	6495.9	6419.9	6413.5
22.5°	5414.3	5397.4	5342.5	5344.6	5378.4	5836.8	6546.6	6310.0	6284.7	6269.9
25°	5511.5	5477.7	5433.3	5420.7	5431.2	5346.7	5847.4	6128.3	6003.7	5946.7
27.5°	5340.4	5342.5	5306.6	5340.4	5300.3	4920.0	4706.6	5773.4	5769.2	5743.9
30°	5211.5	5205.2	5162.9	5205.2	4928.5	4503.8	4413.0	5384.8	5340.4	5306.6
32.5°	4816.5	4820.7	4943.2	5108.0	4653.8	4317.9	4043.3	4810.2	5230.5	5211.5
35°	3445.5	3453.9	3889.1	4702.4	4237.7	3948.3	3927.1	4157.4	5057.3	5065.8
37.5°	3316.6	3316.6	3306.1	3439.1	3910.2	3798.3	3840.5	3817.3	4632.7	4653.8
40°	3223.7	3204.7	3189.9	2980.7	2718.8	3692.6	3722.2	3616.6	4379.2	4383.4
42.5°	3111.7	3090.6	3094.8	2708.2	2433.6	3430.7	3348.3	3206.8	3956.7	3960.9
45°	2906.8	2942.7	2968.1	2370.2	2349.1	2450.5	3088.5	2999.7	3671.5	3749.7
47.5°	1478.7	1510.4	2317.4	2180.1	2228.7	2178.0	2608.9	2611.0	3054.7	3314.5
50°	1341.4	1333.0	1335.1	1271.7	2057.6	1761.8	1886.5	2393.5	2446.3	2818.1
52.5°	1250.6	1248.5	1119.6	995.0	1292.8	1550.6	1368.9	1732.2	1818.9	2387.1
55°	925.3	992.9	883.0	935.8	809.1	1242.1	1235.8	1563.2	1592.8	1913.9
57.5°	8.4	10.6	25.3	711.9	559.8	621.1	853.4	1066.8	1119.6	1491.4
60°	2.1	4.2	10.6	21.1	363.3	382.4	570.4	616.8	695.0	889.4
62.5°	0.0	0.0	4.2	10.6	19.0	156.3	181.7	198.6	306.3	454.2
65°	0.0	0.0	2.1	6.3	10.6	25.3	44.4	92.9	133.1	164.8
67.5°	0.0	0.0	2.1	4.2	8.4	12.7	25.3	35.9	57.0	97.2
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.3	33.8	48.6
72.5°	0.0	0.0	2.1	4.2	4.2	12.7	12.7	19.0	25.3	31.7
75°	0.0	0.0	2.1	2.1	4.2	8.4	12.7	14.8	16.9	25.3
77.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	16.9	14.8	14.8
80°	0.0	0.0	2.1	6.3	6.3	10.6	12.7	16.9	10.6	10.6
82.5°	0.0	0.0	2.1	8.4	6.3	21.1	21.1	23.2	8.4	8.4
85°	0.0	0.0	6.3	4.2	12.7	21.1	19.0	12.7	10.6	6.3
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	14.8	12.7	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636950

CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6202.3	0°	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3
6164.3	2.5°	6248.8	6221.3	6278.3	6272.0	6244.5	6231.9	6217.1	6204.4	6111.4
6168.5	5°	6250.9	6208.6	6278.3	6265.7	6261.4	6240.3	6227.6	6246.6	6162.1
6185.4	7.5°	6250.9	6208.6	6284.7	6288.9	6282.6	6265.7	6263.5	6276.2	6206.5
6215.0	10°	6293.1	6276.2	6339.6	6345.9	6337.5	6333.3	6322.7	6314.2	6240.3
6316.4	12.5°	6381.8	6348.0	6419.9	6438.9	6432.5	6443.1	6417.8	6430.4	6354.4
6419.9	15°	6489.6	6491.7	6546.6	6588.9	6584.6	6618.4	6580.4	6614.2	6559.3
6538.2	17.5°	6654.4	6677.6	6755.8	6819.1	6842.4	6867.7	6842.4	6852.9	6774.8
6407.2	20°	6481.1	6567.7	6943.8	7060.0	7108.5	7131.8	7089.5	7102.2	7024.0
6246.6	22.5°	6324.8	6436.8	6770.5	7133.9	7283.9	7330.4	7315.6	7313.5	7283.9
5929.8	25°	6094.5	6320.6	6470.6	6855.0	7326.1	7410.6	7419.1	7417.0	7372.6
5735.4	27.5°	5811.5	5862.2	6250.9	6485.4	7030.4	7351.5	7338.8	7277.5	7218.4
5331.9	30°	5450.2	5680.5	5855.8	6229.7	6648.0	7169.8	7169.8	7123.3	7062.1
5188.3	32.5°	5266.5	5564.3	5727.0	5862.2	6219.2	6967.0	7051.5	7002.9	6954.3
5076.3	35°	5169.3	5213.6	5593.9	5716.4	6018.5	6576.2	6918.4	6869.8	6833.9
4778.5	37.5°	4955.9	5059.4	5236.9	5564.3	5657.3	6257.2	6741.0	6715.6	6673.4
4391.9	40°	4480.6	4757.3	5029.9	5340.4	5437.6	5847.4	6525.5	6536.1	6479.0
3979.9	42.5°	4199.6	4387.7	4814.4	5023.5	5285.5	5583.3	6316.4	6333.3	6293.1
3770.8	45°	3870.1	4079.2	4379.2	4759.5	5116.5	5220.0	5946.7	6124.1	6090.3
3354.6	47.5°	3568.0	3737.0	4104.6	4489.1	4884.1	4869.3	5522.1	5855.8	5809.4
3035.7	50°	3139.2	3434.9	3608.1	3960.9	4550.3	4590.5	5070.0	5541.1	5503.1
2579.4	52.5°	2647.0	3018.8	3350.4	3673.6	4212.3	4307.4	4649.6	5220.0	5194.6
1971.0	55°	2313.2	2583.6	2957.5	3217.3	3802.5	4056.0	4334.8	4913.7	4901.0
1620.3	57.5°	1645.6	2167.4	2475.8	2839.2	3147.6	3606.0	3813.1	4290.5	4172.2
897.8	60°	1115.4	1360.4	1736.5	2127.3	2334.3	2792.7	2985.0	3367.3	3335.6
536.6	62.5°	589.4	815.4	1083.7	1280.2	1430.2	1875.9	1956.2	2368.1	2357.5
215.5	65°	259.8	344.3	587.3	688.7	842.9	1049.9	1119.6	1267.5	1231.6
105.6	67.5°	135.2	204.9	331.7	407.7	513.3	591.5	648.5	695.0	724.6
69.7	70°	82.4	150.0	204.9	283.1	352.8	416.2	460.5	523.9	561.9
35.9	72.5°	61.3	95.1	141.5	217.6	255.6	329.5	373.9	420.4	454.2
29.6	75°	33.8	63.4	114.1	171.1	204.9	268.3	308.4	340.1	350.7
16.9	77.5°	21.1	48.6	95.1	133.1	160.5	217.6	207.0	236.6	261.9
12.7	80°	14.8	35.9	73.9	109.8	112.0	139.4	164.8	190.1	207.0
8.4	82.5°	10.6	29.6	54.9	84.5	73.9	107.7	128.9	147.9	107.7
6.3	85°	8.4	21.1	27.5	50.7	42.2	76.0	65.5	63.4	42.2
4.2	87.5°	6.3	10.6	19.0	23.2	16.9	16.9	21.1	25.3	21.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
6202.3  
6048.1  
6090.3  
6126.2  
6179.0  
6286.8  
6468.5  
6707.2  
6969.1  
7188.8  
**7305.0**  
7171.9  
7038.8  
6914.2  
6783.2  
6631.1  
6466.3  
6288.9  
6094.5  
5843.2  
5509.4  
5211.5  
4915.8  
4159.5  
3337.7  
2359.7  
1216.8  
724.6  
564.0  
460.5  
344.3  
266.2  
209.1  
78.2  
42.2  
21.1  
0.0

(END OF REPORT)