

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: P638105

Luminaire Tested: **IFLD-S-SA3A-730-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638105  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9636.7 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

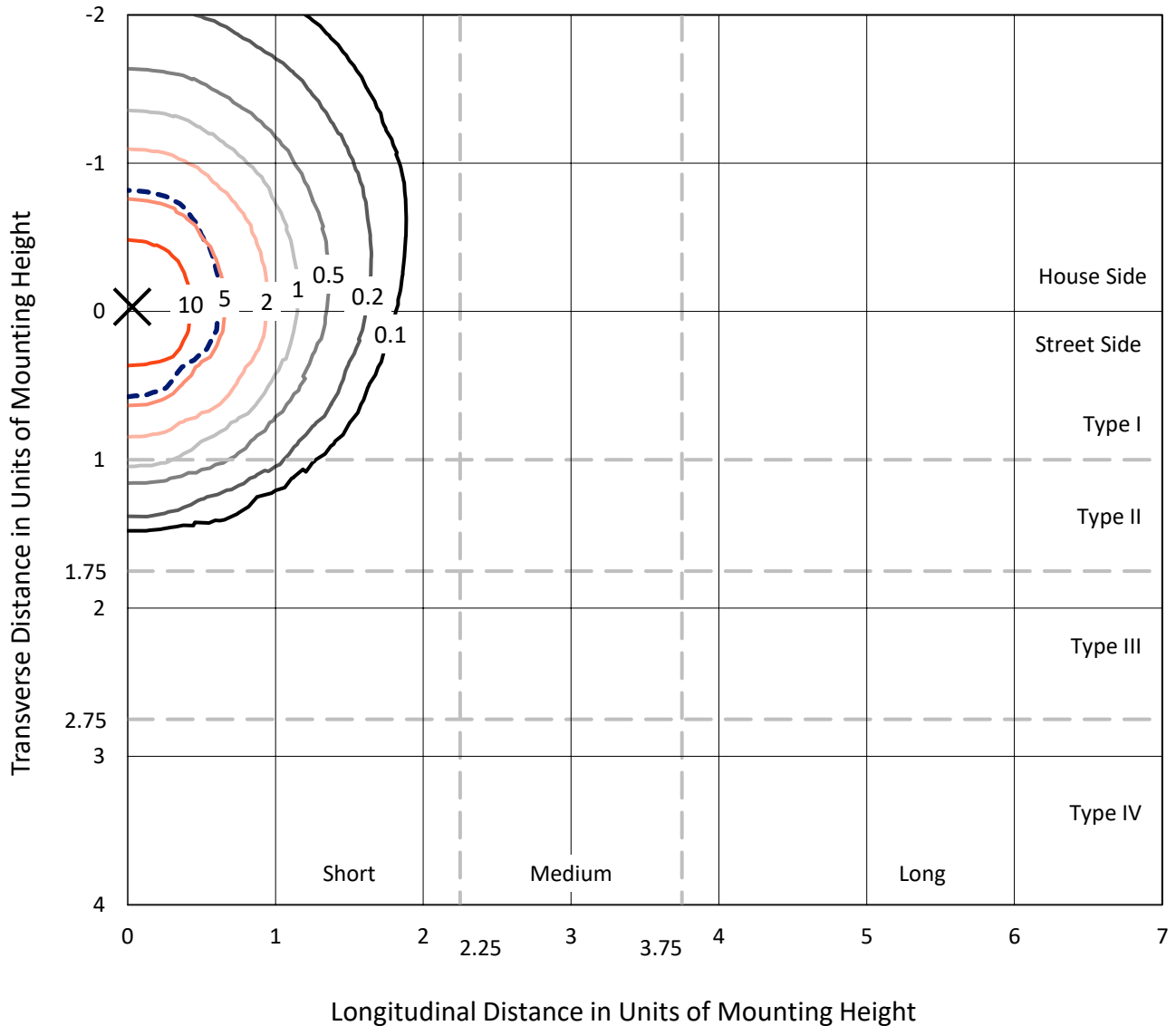
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

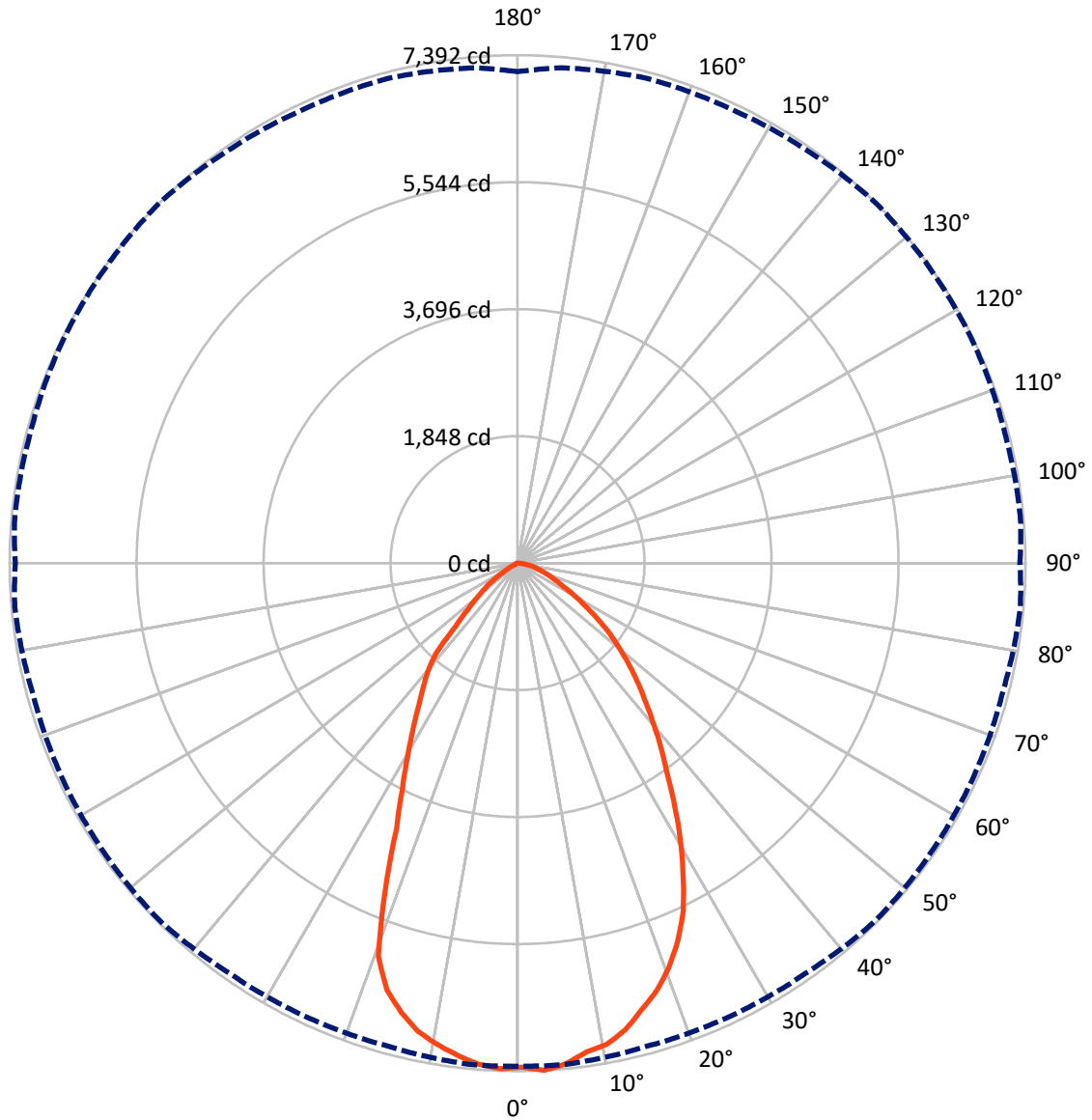
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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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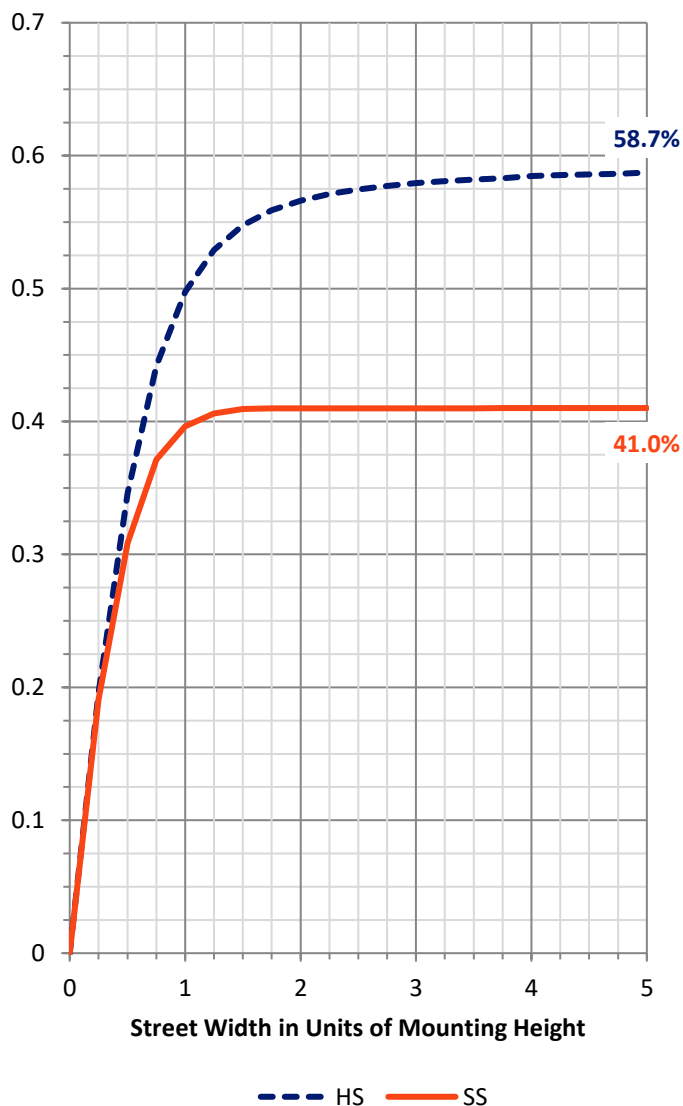
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5707.4	0.0	5707.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3929.4	0.0	3929.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	9636.7	0.0	9636.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.8	7.1
10°-20°	1844.3	19.1
20°-30°	2249.2	23.3
30°-40°	2053.5	21.3
40°-50°	1484.0	15.4
50°-60°	810.3	8.4
60°-70°	335.0	3.5
70°-80°	135.7	1.4
80°-90°	36.9	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°	9636.7	100.0
0°-180°	9636.7	100.0



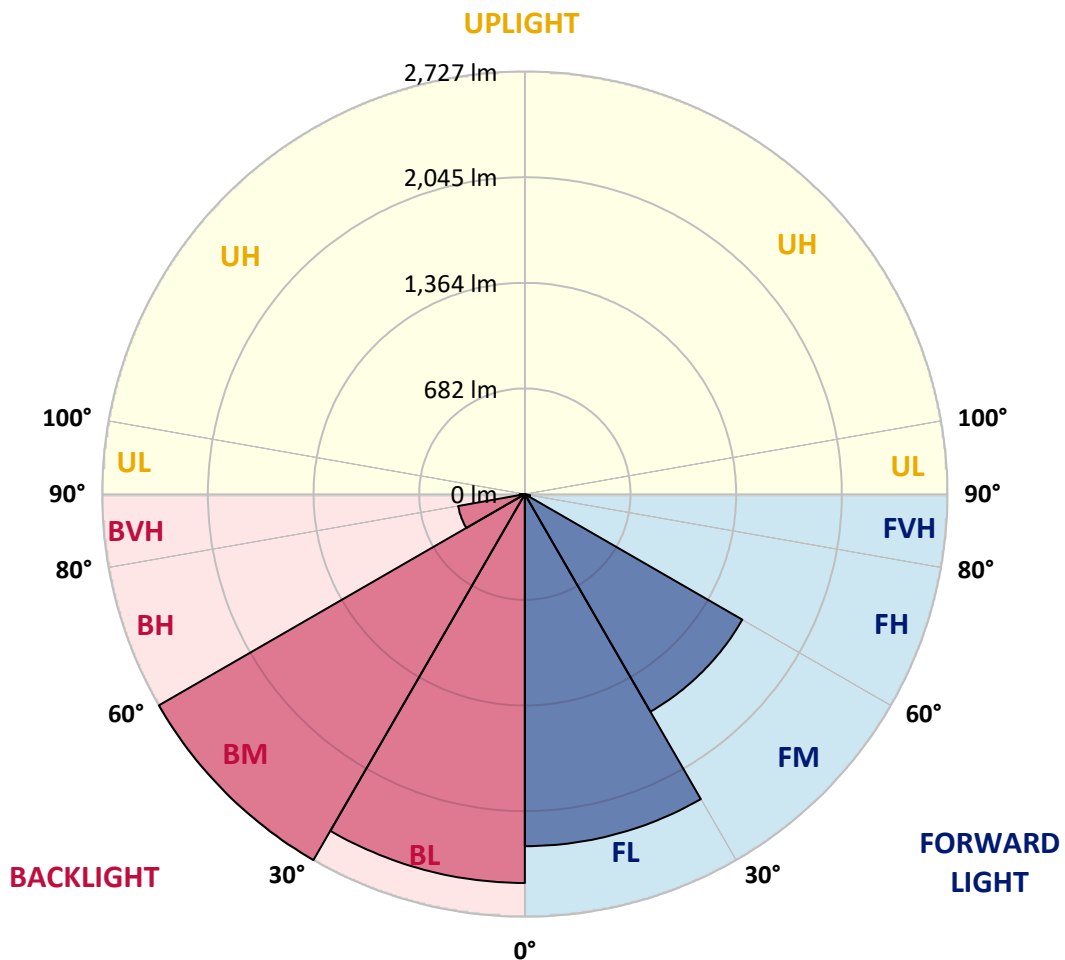
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.7	23.6			
FM (30°-60°)	1620.7	16.8			
FH (60°-80°)	34.0	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	2509.5	26.0	B4/5000		
BM (30°-60°)	2727.1	28.3	B3/5000		
BH (60°-80°)	436.8	4.5	B1/500		G1/500
BVH (80°-90°)	34.0	0.4			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°	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5
2.5°	7320.0	7329.5	7277.9	7283.3	7292.8	7362.0	7344.4	7328.1	7305.0	7344.4
5°	7310.5	7315.9	7261.6	7242.6	7250.7	7313.2	7256.2	7256.2	7250.7	7244.0
7.5°	7237.2	7239.9	7197.8	7163.9	7185.6	7214.1	7172.0	7192.4	7162.5	7185.6
10°	7127.3	7109.6	7059.4	7049.9	7074.3	7101.5	7073.0	7092.0	7064.8	7082.5
12.5°	6965.8	6938.6	6897.9	6885.7	6927.8	6964.4	6941.3	6930.5	6895.2	6938.6
15°	6342.9	6322.5	6414.8	6576.3	6721.5	6752.7	6728.3	6739.1	6665.9	6678.1
17.5°	5220.6	5182.6	5281.7	5664.3	6209.9	6497.6	6475.9	6405.3	6296.7	6321.2
20°	4744.3	4733.4	4722.6	4813.5	5194.8	6067.4	6097.2	5918.1	5763.4	5729.5
22.5°	4475.6	4471.5	4460.6	4481.0	4581.4	5141.9	5483.9	5318.3	5215.2	5205.7
25°	4229.9	4223.2	4190.6	4216.4	4216.4	4248.9	4687.3	4787.7	4696.8	4685.9
27.5°	3980.2	3968.0	3962.6	3974.8	3912.4	3692.5	3803.8	4293.7	4246.2	4248.9
30°	3710.2	3706.1	3691.2	3717.0	3524.3	3251.5	3180.9	3845.9	3855.4	3852.7
32.5°	3308.5	3326.1	3394.0	3422.5	3104.9	2879.7	2761.6	3327.5	3521.6	3517.5
35°	2403.3	2403.3	2624.5	3035.7	2720.9	2551.3	2487.5	2821.3	3191.8	3205.4
37.5°	1975.9	1982.7	2026.1	2213.4	2347.7	2288.0	2269.0	2374.8	2768.4	2790.1
40°	1777.7	1777.7	1777.7	1700.4	1696.3	2061.4	2050.5	2016.6	2391.1	2438.6
42.5°	1597.3	1601.3	1604.0	1408.6	1300.1	1781.8	1757.4	1705.8	2053.2	2108.9
45°	1411.3	1418.1	1426.3	1177.9	1130.4	1282.4	1487.3	1430.3	1719.4	1791.3
47.5°	861.7	872.6	1057.1	998.8	1004.2	989.3	1213.2	1203.7	1410.0	1511.8
50°	582.2	586.2	603.9	633.7	861.7	777.6	859.0	996.1	1070.7	1225.4
52.5°	488.5	495.3	451.9	411.2	565.9	608.0	599.8	739.6	769.5	960.8
55°	343.3	365.0	344.7	340.6	321.6	472.3	454.6	568.6	587.6	730.1
57.5°	35.3	40.7	70.6	253.8	210.3	267.3	324.3	416.6	435.6	538.8
60°	2.7	2.7	6.8	35.3	153.3	160.1	223.9	256.5	293.1	375.9
62.5°	0.0	1.4	2.7	5.4	24.4	85.5	112.6	134.3	176.4	242.9
65°	0.0	0.0	1.4	4.1	5.4	32.6	43.4	70.6	96.4	150.6
67.5°	0.0	0.0	1.4	2.7	4.1	8.1	14.9	25.8	51.6	85.5
70°	0.0	0.0	1.4	2.7	4.1	6.8	10.9	16.3	23.1	46.1
72.5°	0.0	0.0	1.4	1.4	2.7	6.8	8.1	10.9	16.3	23.1
75°	0.0	0.0	1.4	1.4	4.1	8.1	6.8	8.1	10.9	14.9
77.5°	0.0	0.0	1.4	2.7	4.1	8.1	6.8	8.1	8.1	9.5
80°	0.0	0.0	1.4	2.7	5.4	9.5	8.1	8.1	6.8	6.8
82.5°	0.0	0.0	1.4	4.1	5.4	12.2	12.2	10.9	5.4	4.1
85°	0.0	0.0	2.7	5.4	8.1	13.6	13.6	10.9	4.1	2.7
87.5°	0.0	0.0	2.7	4.1	6.8	9.5	13.6	10.9	4.1	1.4
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°
7333.5	0°	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5	7333.5
7310.5	2.5°	7347.1	7339.0	7366.1	7377.0	7391.9	7334.9	7299.6	7301.0	7235.8
7227.7	5°	7271.1	7272.5	7307.7	7305.0	7320.0	7288.7	7275.2	7252.1	7195.1
7123.2	7.5°	7174.8	7162.5	7196.5	7222.2	7184.2	7206.0	7174.8	7185.6	7151.7
7030.9	10°	7100.1	7071.6	7102.8	7120.5	7121.8	7100.1	7070.3	7041.8	7029.5
6887.1	12.5°	6934.6	6897.9	6950.8	6975.3	6971.2	6929.1	6895.2	6902.0	6862.6
6634.6	15°	6706.6	6707.9	6745.9	6769.0	6747.3	6737.8	6740.5	6724.2	6690.3
6285.9	17.5°	6357.8	6378.2	6478.6	6534.2	6546.4	6527.4	6517.9	6498.9	6465.0
5729.5	20°	5777.0	5899.1	6078.2	6250.6	6284.5	6279.1	6245.2	6237.0	6218.0
5178.5	22.5°	5266.7	5357.7	5565.3	5834.0	5972.4	5986.0	5945.3	5933.0	5912.7
4685.9	25°	4738.8	4836.5	5023.8	5315.6	5601.9	5660.3	5653.5	5616.9	5595.1
4248.9	27.5°	4293.7	4391.4	4561.1	4824.3	5131.0	5318.3	5335.9	5277.6	5276.2
3859.5	30°	3892.0	4026.4	4155.3	4369.7	4666.9	4947.8	4977.7	4937.0	4941.0
3502.6	32.5°	3577.2	3688.5	3798.4	3942.2	4189.2	4516.3	4633.0	4595.0	4580.1
3205.4	35°	3255.6	3331.6	3444.2	3575.8	3744.1	4068.5	4270.7	4242.2	4227.2
2803.7	37.5°	2889.2	3019.4	3100.9	3248.8	3380.4	3638.3	3923.2	3919.2	3888.0
2461.7	40°	2513.3	2650.3	2773.8	2923.1	3024.9	3229.8	3546.0	3544.6	3548.7
2107.5	42.5°	2172.6	2298.9	2448.1	2611.0	2708.7	2858.0	3197.2	3216.2	3239.3
1815.7	45°	1864.6	1978.6	2117.0	2315.1	2433.2	2518.7	2820.0	2906.8	2905.5
1555.2	47.5°	1587.8	1695.0	1811.7	2004.4	2155.0	2232.4	2482.1	2605.5	2597.4
1275.6	50°	1332.6	1427.6	1549.8	1689.5	1891.7	1959.6	2145.5	2308.4	2296.1
1016.4	52.5°	1072.1	1203.7	1306.8	1434.4	1647.5	1714.0	1857.8	2016.6	2007.1
762.7	55°	835.9	963.5	1088.4	1198.3	1377.4	1476.5	1579.6	1742.5	1739.7
597.1	57.5°	632.4	772.2	890.2	994.7	1137.2	1259.3	1342.1	1490.0	1509.0
408.5	60°	468.2	575.4	703.0	819.7	932.3	1058.5	1114.1	1259.3	1267.5
279.6	62.5°	318.9	437.0	561.8	667.7	751.8	882.1	932.3	1051.7	1066.6
179.1	65°	221.2	297.2	439.7	515.7	618.8	730.1	780.3	875.3	905.2
103.1	67.5°	146.6	211.7	343.3	412.5	514.3	590.3	654.1	731.5	764.0
65.1	70°	80.1	156.1	245.6	325.7	413.9	487.2	549.6	612.0	640.5
29.9	72.5°	54.3	104.5	171.0	257.8	333.8	405.8	461.4	507.5	508.9
17.6	75°	27.1	70.6	130.3	199.5	260.6	331.1	381.3	408.5	375.9
10.9	77.5°	16.3	51.6	105.9	160.1	211.7	267.3	295.8	310.8	257.8
8.1	80°	9.5	36.6	82.8	127.6	146.6	196.8	223.9	228.0	172.3
5.4	82.5°	6.8	27.1	65.1	93.6	89.6	138.4	168.3	162.8	109.9
4.1	85°	4.1	19.0	40.7	58.4	54.3	90.9	97.7	100.4	63.8
2.7	87.5°	2.7	10.9	21.7	31.2	25.8	39.4	39.4	47.5	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7333.5
7151.7
7181.5
7094.7
6975.3
6828.7
6656.4
6450.1
6174.6
5907.3
5572.1
5273.5
4920.7
4581.4
4206.9
3913.7
3548.7
3227.1
2908.2
2600.1
2307.0
2027.4
1746.5
1500.9
1279.7
1069.4
898.4
760.0
629.7
496.7
351.5
248.3
161.5
101.8
58.4
27.1
0.0

(END OF REPORT)