

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: P636734

Luminaire Tested: **IFLD-L-SA8B-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636734  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19819.1 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

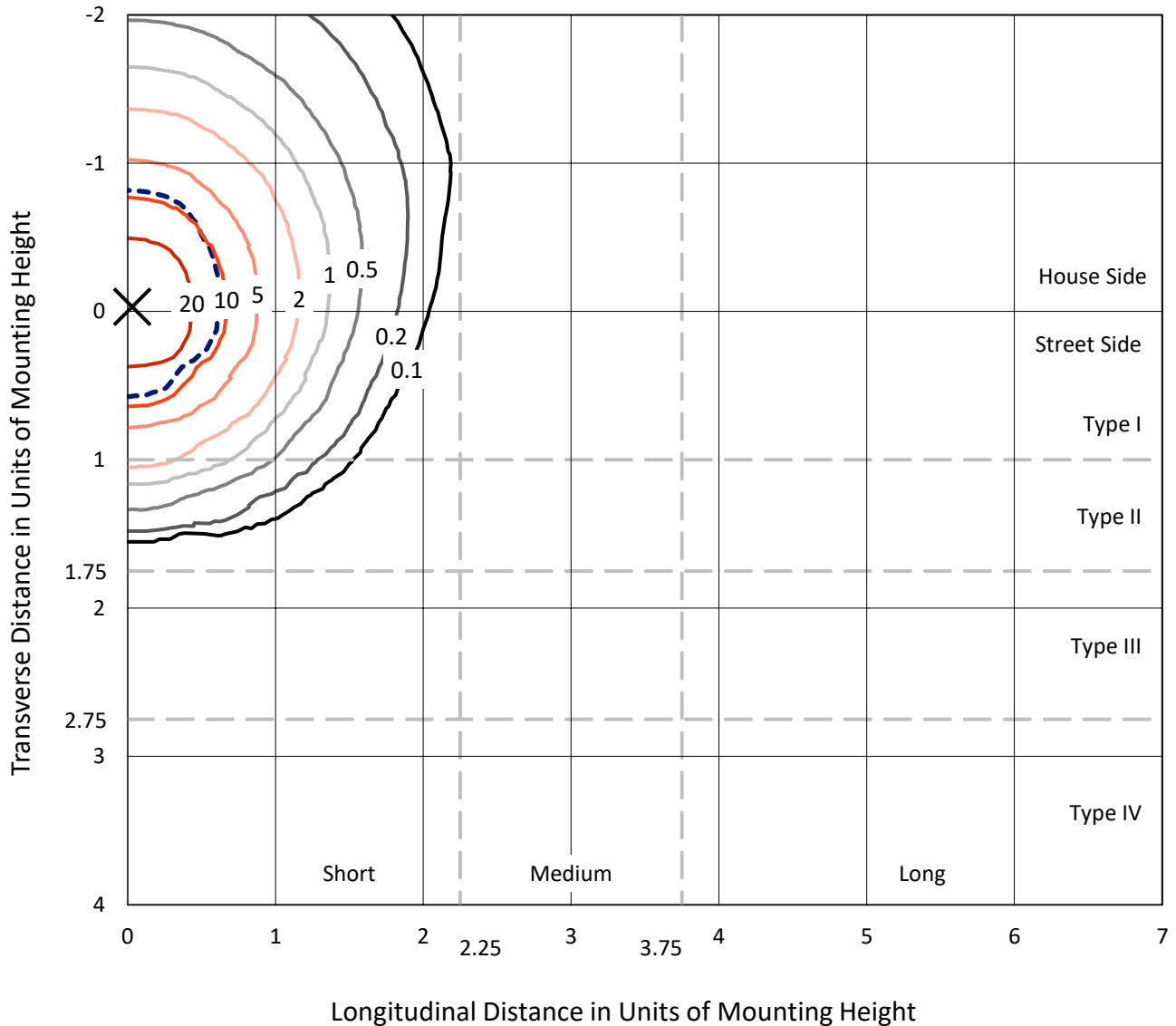
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

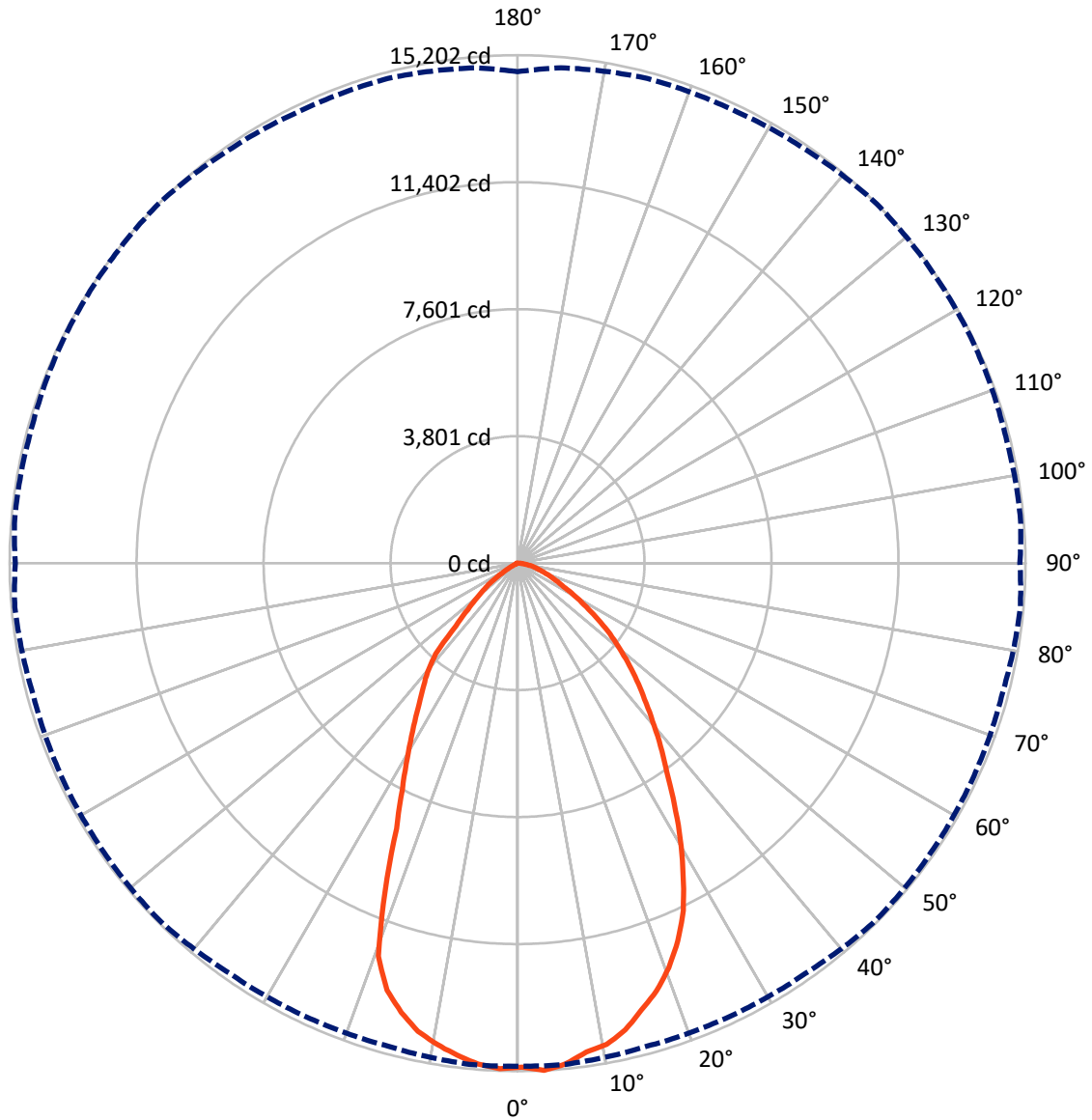
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.7 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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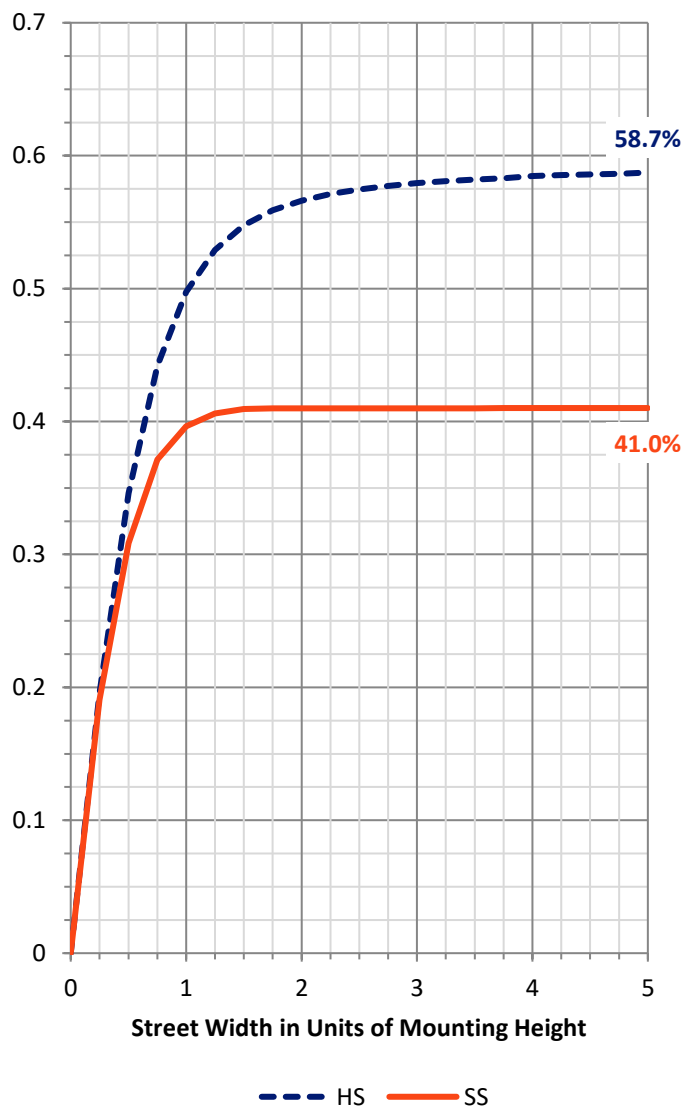
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11737.9	0.0	11737.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8081.2	0.0	8081.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	19819.1	0.0	19819.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1414.5	7.1
10°-20°	3793.0	19.1
20°-30°	4625.8	23.3
30°-40°	4223.3	21.3
40°-50°	3052.1	15.4
50°-60°	1666.5	8.4
60°-70°	689.0	3.5
70°-80°	279.1	1.4
80°-90°	75.9	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°	19819.1	100.0
0°-180°	19819.1	100.0



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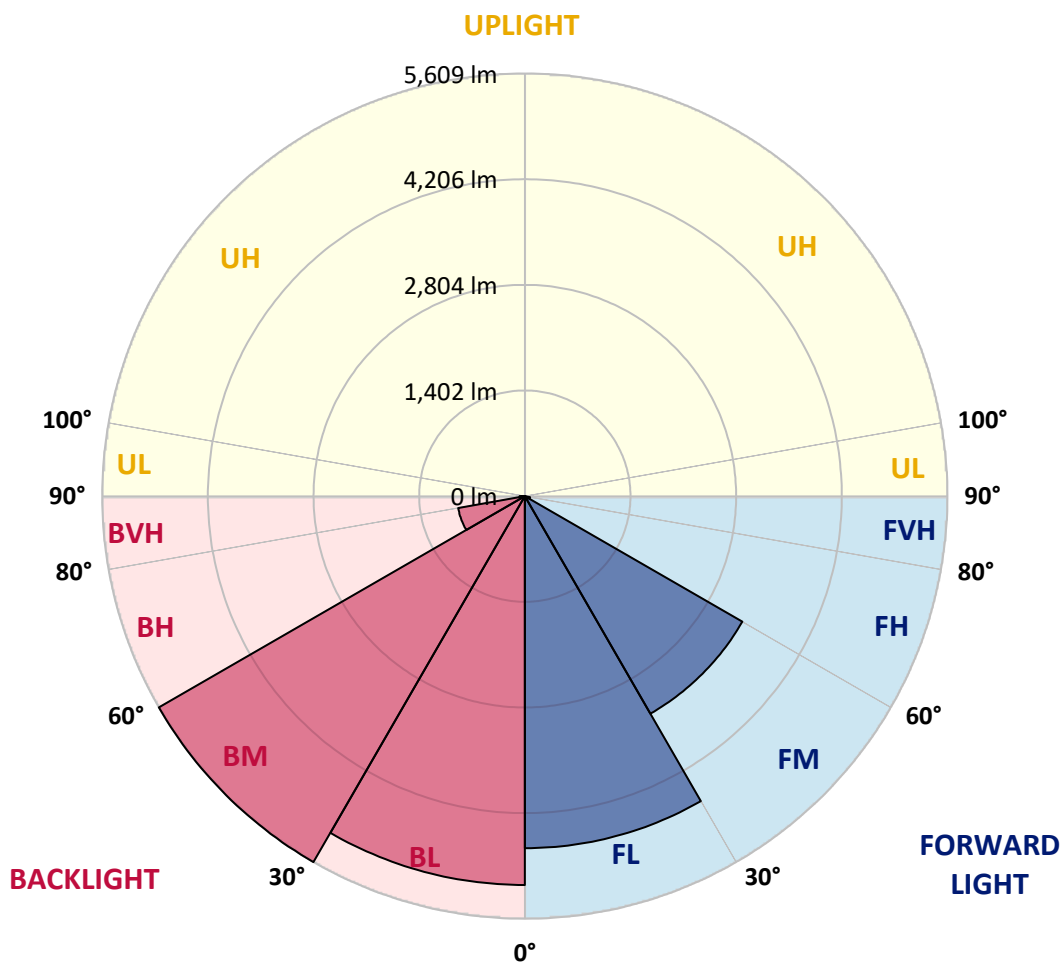
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4672.1	23.6			
FM (30°-60°)	3333.2	16.8			
FH (60°-80°)	69.8	0.4			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	5161.2	26.0	B5		
BM (30°-60°)	5608.6	28.3	B4/8500		
BH (60°-80°)	898.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	69.8	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°	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2
2.5°	15054.3	15073.9	14967.8	14979.0	14998.5	15140.9	15104.6	15071.1	15023.6	15104.6
5°	15034.8	15046.0	14934.3	14895.3	14912.0	15040.4	14923.2	14923.2	14912.0	14898.0
7.5°	14884.1	14889.7	14803.2	14733.4	14778.0	14836.6	14750.1	14792.0	14730.6	14778.0
10°	14658.0	14621.7	14518.5	14498.9	14549.2	14605.0	14546.4	14585.5	14529.6	14565.9
12.5°	14325.9	14270.1	14186.4	14161.2	14247.8	14323.1	14275.7	14253.3	14180.8	14270.1
15°	13044.9	13003.0	13192.8	13524.9	13823.5	13887.7	13837.5	13859.8	13709.1	13734.2
17.5°	10736.7	10658.6	10862.3	11649.4	12771.3	13363.0	13318.4	13173.2	12950.0	13000.2
20°	9757.1	9734.8	9712.5	9899.5	10683.7	12478.3	12539.7	12171.3	11853.1	11783.4
22.5°	9204.5	9196.1	9173.8	9215.7	9422.2	10574.9	11278.2	10937.7	10725.6	10706.0
25°	8699.4	8685.4	8618.4	8671.5	8671.5	8738.4	9639.9	9846.4	9659.4	9637.1
27.5°	8185.8	8160.7	8149.5	8174.7	8046.3	7594.1	7823.0	8830.5	8732.9	8738.4
30°	7630.4	7622.1	7591.4	7644.4	7248.1	6687.1	6542.0	7909.5	7929.1	7923.5
32.5°	6804.3	6840.6	6980.1	7038.8	6385.7	5922.4	5679.6	6843.4	7242.5	7234.1
35°	4942.8	4942.8	5397.7	6243.3	5595.8	5247.0	5115.8	5802.4	6564.3	6592.2
37.5°	4063.6	4077.6	4166.9	4552.0	4828.3	4705.5	4666.5	4884.1	5693.5	5738.2
40°	3656.1	3656.1	3656.1	3497.0	3488.7	4239.4	4217.1	4147.3	4917.6	5015.3
42.5°	3284.9	3293.3	3298.9	2897.0	2673.7	3664.5	3614.3	3508.2	4222.7	4337.1
45°	2902.6	2916.5	2933.3	2422.5	2324.9	2637.4	3058.9	2941.7	3536.1	3684.0
47.5°	1772.2	1794.6	2174.1	2054.1	2065.3	2034.6	2495.1	2475.6	2899.8	3109.1
50°	1197.3	1205.7	1242.0	1303.4	1772.2	1599.2	1766.7	2048.6	2202.1	2520.2
52.5°	1004.7	1018.7	929.4	845.7	1163.8	1250.3	1233.6	1521.1	1582.5	1976.0
55°	706.1	750.8	708.9	700.5	661.5	971.2	935.0	1169.4	1208.5	1501.5
57.5°	72.6	83.7	145.1	521.9	432.6	549.8	667.0	856.8	895.9	1108.0
60°	5.6	5.6	14.0	72.6	315.4	329.3	460.5	527.5	602.8	773.1
62.5°	0.0	2.8	5.6	11.2	50.2	175.8	231.6	276.3	362.8	499.6
65°	0.0	0.0	2.8	8.4	11.2	67.0	89.3	145.1	198.2	309.8
67.5°	0.0	0.0	2.8	5.6	8.4	16.7	30.7	53.0	106.1	175.8
70°	0.0	0.0	2.8	5.6	8.4	14.0	22.3	33.5	47.4	94.9
72.5°	0.0	0.0	2.8	2.8	5.6	14.0	16.7	22.3	33.5	47.4
75°	0.0	0.0	2.8	2.8	8.4	16.7	14.0	16.7	22.3	30.7
77.5°	0.0	0.0	2.8	5.6	8.4	16.7	14.0	16.7	16.7	19.5
80°	0.0	0.0	2.8	5.6	11.2	19.5	16.7	16.7	14.0	14.0
82.5°	0.0	0.0	2.8	8.4	11.2	25.1	25.1	22.3	11.2	8.4
85°	0.0	0.0	5.6	11.2	16.7	27.9	27.9	22.3	8.4	5.6
87.5°	0.0	0.0	5.6	8.4	14.0	19.5	27.9	22.3	8.4	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°
15082.2	0°	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2	15082.2
15034.8	2.5°	15110.2	15093.4	15149.2	15171.6	15202.3	15085.0	15012.5	15015.3	14881.3
14864.6	5°	14953.9	14956.7	15029.2	15023.6	15054.3	14990.1	14962.2	14914.8	14797.6
14649.6	7.5°	14755.7	14730.6	14800.4	14853.4	14775.2	14819.9	14755.7	14778.0	14708.3
14459.9	10°	14602.2	14543.6	14607.8	14644.1	14646.9	14602.2	14540.8	14482.2	14457.1
14164.0	12.5°	14261.7	14186.4	14295.2	14345.4	14337.1	14250.5	14180.8	14194.7	14113.8
13644.9	15°	13792.8	13795.6	13873.8	13921.2	13876.6	13857.0	13862.6	13829.1	13759.3
12927.6	17.5°	13075.6	13117.4	13324.0	13438.4	13463.5	13424.4	13404.9	13365.8	13296.0
11783.4	20°	11881.0	12132.2	12500.6	12855.1	12924.8	12913.7	12843.9	12827.2	12788.1
10650.2	22.5°	10831.6	11018.6	11445.6	11998.3	12282.9	12310.8	12227.1	12202.0	12160.1
9637.1	25°	9746.0	9946.9	10332.1	10932.1	11521.0	11641.0	11627.1	11551.7	11507.0
8738.4	27.5°	8830.5	9031.5	9380.4	9921.8	10552.5	10937.7	10974.0	10854.0	10851.2
7937.4	30°	8004.4	8280.7	8545.9	8986.8	9598.0	10175.8	10237.2	10153.4	10161.8
7203.4	32.5°	7356.9	7585.8	7811.8	8107.7	8615.6	9288.3	9528.3	9450.1	9419.4
6592.2	35°	6695.5	6851.8	7083.4	7354.1	7700.2	8367.2	8783.1	8724.5	8693.8
5766.1	37.5°	5941.9	6209.8	6377.3	6681.5	6952.2	7482.5	8068.6	8060.2	7996.0
5062.8	40°	5168.8	5450.7	5704.7	6011.7	6221.0	6642.4	7292.7	7289.9	7298.3
4334.3	42.5°	4468.3	4727.9	5034.9	5369.8	5570.7	5877.7	6575.5	6614.5	6662.0
3734.3	45°	3834.8	4069.2	4353.9	4761.3	5004.2	5180.0	5799.6	5978.2	5975.4
3198.4	47.5°	3265.4	3485.9	3725.9	4122.2	4432.0	4591.1	5104.6	5358.6	5341.9
2623.5	50°	2740.7	2936.1	3187.3	3474.7	3890.6	4030.1	4412.5	4747.4	4722.3
2090.4	52.5°	2204.8	2475.6	2687.7	2950.0	3388.2	3525.0	3820.8	4147.3	4127.8
1568.5	55°	1719.2	1981.6	2238.3	2464.4	2832.8	3036.5	3248.7	3583.6	3578.0
1228.0	57.5°	1300.6	1588.0	1830.9	2045.8	2338.8	2590.0	2760.2	3064.5	3103.5
840.1	60°	962.9	1183.4	1445.7	1685.7	1917.4	2176.9	2291.4	2590.0	2606.7
574.9	62.5°	655.9	898.7	1155.4	1373.1	1546.2	1814.1	1917.4	2163.0	2193.7
368.4	65°	454.9	611.2	904.3	1060.6	1272.7	1501.5	1604.8	1800.2	1861.6
212.1	67.5°	301.4	435.4	706.1	848.4	1057.8	1214.1	1345.2	1504.3	1571.3
134.0	70°	164.7	321.0	505.2	669.8	851.2	1001.9	1130.3	1258.7	1317.3
61.4	72.5°	111.6	214.9	351.7	530.3	686.6	834.5	948.9	1043.8	1046.6
36.3	75°	55.8	145.1	267.9	410.3	535.9	681.0	784.3	840.1	773.1
22.3	77.5°	33.5	106.1	217.7	329.3	435.4	549.8	608.4	639.1	530.3
16.7	80°	19.5	75.4	170.2	262.3	301.4	404.7	460.5	468.9	354.4
11.2	82.5°	14.0	55.8	134.0	192.6	184.2	284.7	346.1	334.9	226.1
8.4	85°	8.4	39.1	83.7	120.0	111.6	187.0	200.9	206.5	131.2
5.6	87.5°	5.6	22.3	44.7	64.2	53.0	80.9	80.9	97.7	64.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15082.2  
*14708.3*  
14769.7  
14591.0  
14345.4  
14044.0  
13689.6  
13265.3  
12698.8  
12149.0  
11459.6  
10845.6  
10120.0  
9422.2  
8651.9  
8049.1  
7298.3  
6636.9  
5981.0  
5347.4  
4744.6  
4169.7  
3591.9  
3086.8  
2631.9  
2199.3  
1847.6  
1562.9  
1295.0  
1021.5  
722.9  
510.7  
332.1  
209.3  
120.0  
55.8  
0.0

(END OF REPORT)