

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: P636818

Luminaire Tested: **IFLD-L-SA7D-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636818  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27112 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

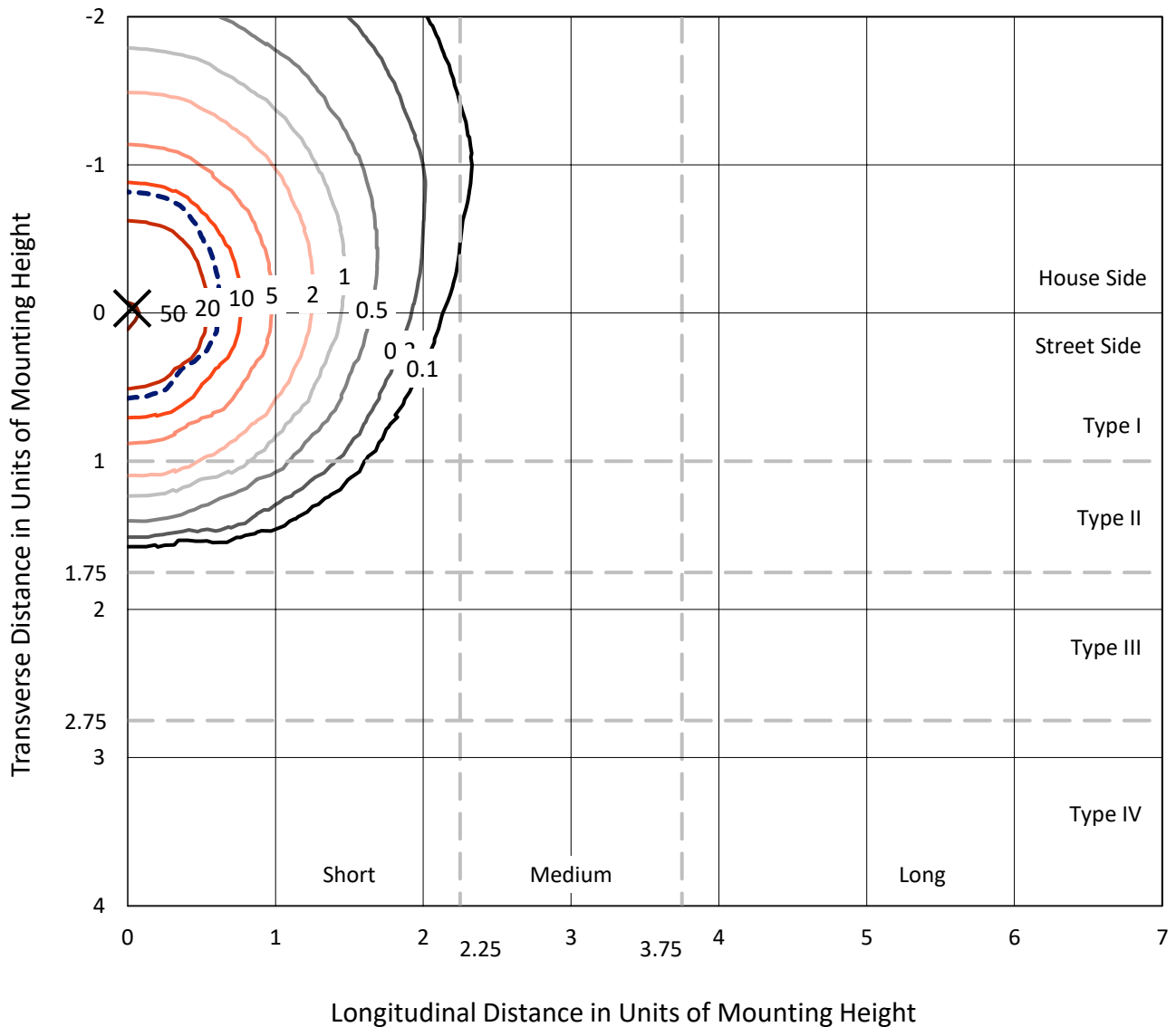
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

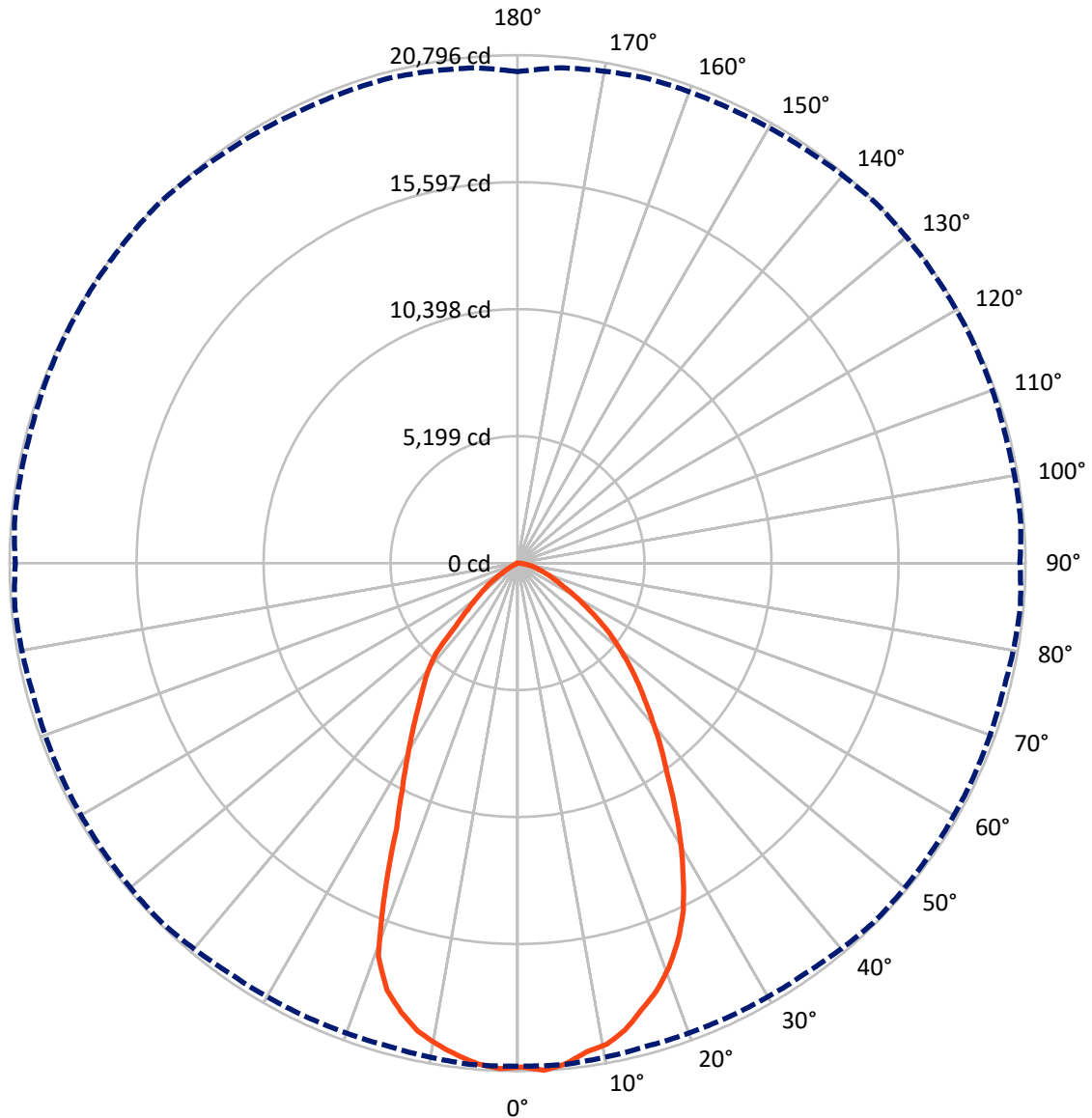
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.6 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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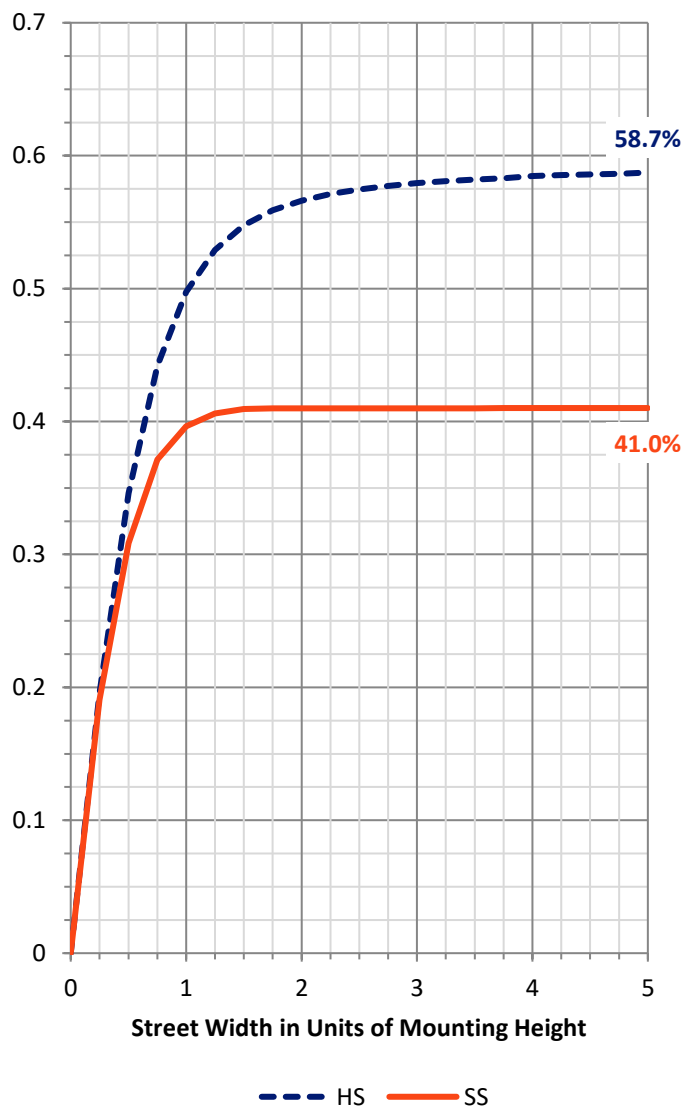
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16057.1	0.0	16057.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11054.9	0.0	11054.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27112.0	0.0	27112.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1935.0	7.1
10°-20°	5188.7	19.1
20°-30°	6328.0	23.3
30°-40°	5777.4	21.3
40°-50°	4175.2	15.4
50°-60°	2279.7	8.4
60°-70°	942.6	3.5
70°-80°	381.7	1.4
80°-90°	103.8	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°	27112.0	100.0
0°-180°	27112.0	100.0



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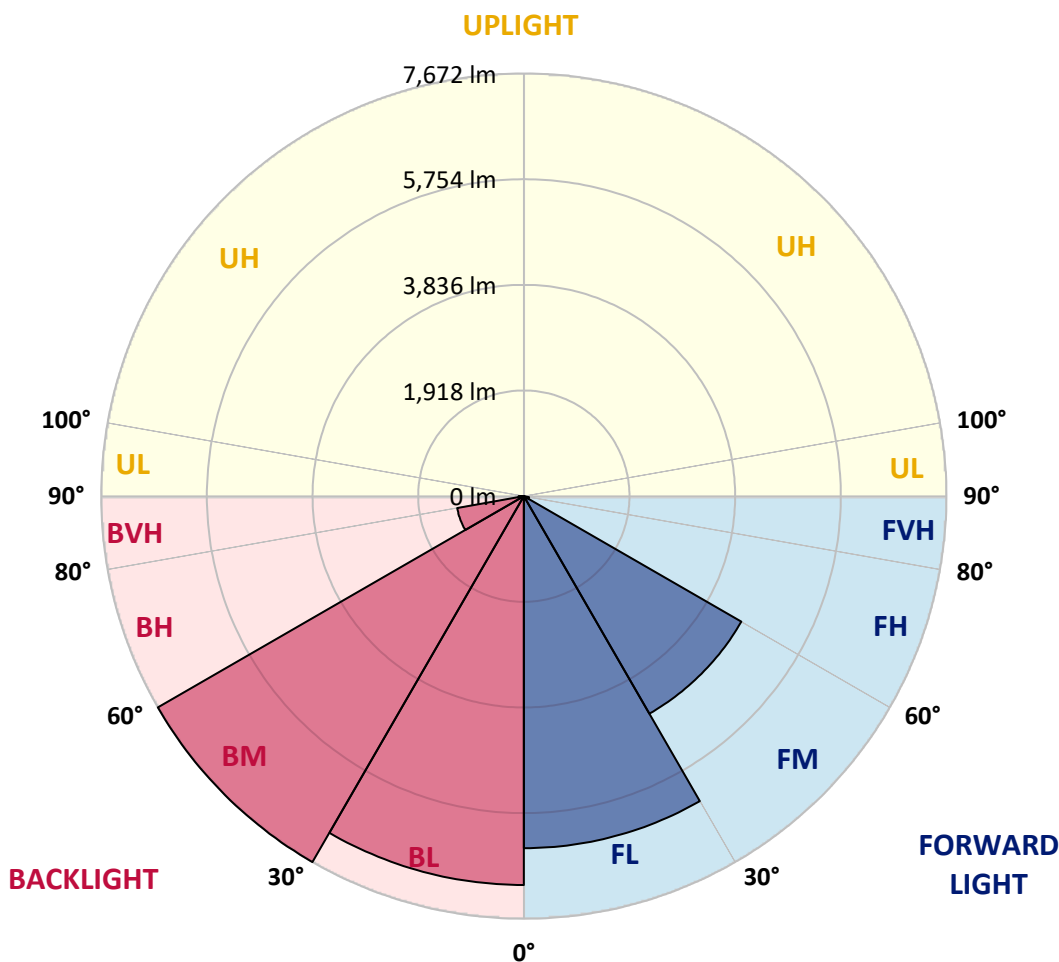
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6391.3	23.6			
FM (30°-60°)	4559.7	16.8			
FH (60°-80°)	95.5	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7060.4	26.0	B5		
BM (30°-60°)	7672.5	28.3	B4/8500		
BH (60°-80°)	1228.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.5	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2
2.5°	20594.0	20620.7	20475.6	20490.9	20517.6	20712.3	20662.7	20616.9	20552.0	20662.7
5°	20567.3	20582.5	20429.8	20376.4	20399.3	20574.9	20414.5	20414.5	20399.3	20380.2
7.5°	20361.1	20368.7	20250.4	20154.9	20216.0	20296.2	20177.8	20235.1	20151.1	20216.0
10°	20051.8	20002.2	19860.9	19834.2	19902.9	19979.3	19899.1	19952.6	19876.2	19925.8
12.5°	19597.5	19521.1	19406.6	19372.2	19490.6	19593.7	19528.8	19498.2	19399.0	19521.1
15°	17845.1	17787.8	18047.4	18501.8	18910.3	18998.1	18929.4	18959.9	18753.7	18788.1
17.5°	14687.6	14580.7	14859.4	15936.1	17470.9	18280.3	18219.2	18020.7	17715.3	17784.0
20°	13347.5	13317.0	13286.4	13542.2	14615.1	17070.0	17154.0	16650.0	16214.8	16119.4
22.5°	12591.6	12580.1	12549.6	12606.8	12889.4	14466.2	15428.3	14962.5	14672.4	14645.6
25°	11900.5	11881.4	11789.8	11862.3	11862.3	11954.0	13187.2	13469.7	13213.9	13183.4
27.5°	11198.0	11163.7	11148.4	11182.8	11007.1	10388.6	10701.7	12080.0	11946.3	11954.0
30°	10438.3	10426.8	10384.8	10457.3	9915.2	9147.8	8949.3	10820.1	10846.8	10839.1
32.5°	9308.1	9357.8	9548.7	9628.9	8735.5	8101.7	7769.5	9361.6	9907.6	9896.1
35°	6761.6	6761.6	7383.9	8540.7	7655.0	7177.7	6998.3	7937.5	8979.8	9018.0
37.5°	5558.9	5578.0	5700.2	6227.1	6605.0	6437.1	6383.6	6681.4	7788.6	7849.7
40°	5001.5	5001.5	5001.5	4783.9	4772.4	5799.5	5768.9	5673.5	6727.2	6860.8
42.5°	4493.7	4505.2	4512.8	3963.0	3657.6	5013.0	4944.2	4799.2	5776.5	5933.1
45°	3970.7	3989.8	4012.7	3314.0	3180.3	3608.0	4184.5	4024.1	4837.3	5039.7
47.5°	2424.4	2454.9	2974.2	2810.0	2825.3	2783.3	3413.2	3386.5	3966.8	4253.2
50°	1637.9	1649.4	1699.0	1783.0	2424.4	2187.7	2416.8	2802.4	3012.4	3447.6
52.5°	1374.5	1393.5	1271.4	1156.8	1592.1	1710.4	1687.5	2080.8	2164.8	2703.1
55°	965.9	1027.0	969.8	958.3	904.9	1328.6	1279.0	1599.7	1653.2	2054.1
57.5°	99.3	114.5	198.5	714.0	591.8	752.1	912.5	1172.1	1225.6	1515.7
60°	7.6	7.6	19.1	99.3	431.4	450.5	630.0	721.6	824.7	1057.6
62.5°	0.0	3.8	7.6	15.3	68.7	240.5	316.9	378.0	496.3	683.4
65°	0.0	0.0	3.8	11.5	15.3	91.6	122.2	198.5	271.1	423.8
67.5°	0.0	0.0	3.8	7.6	11.5	22.9	42.0	72.5	145.1	240.5
70°	0.0	0.0	3.8	7.6	11.5	19.1	30.5	45.8	64.9	129.8
72.5°	0.0	0.0	3.8	3.8	7.6	19.1	22.9	30.5	45.8	64.9
75°	0.0	0.0	3.8	3.8	11.5	22.9	19.1	22.9	30.5	42.0
77.5°	0.0	0.0	3.8	7.6	11.5	22.9	19.1	22.9	22.9	26.7
80°	0.0	0.0	3.8	7.6	15.3	26.7	22.9	22.9	19.1	19.1
82.5°	0.0	0.0	3.8	11.5	15.3	34.4	34.4	30.5	15.3	11.5
85°	0.0	0.0	7.6	15.3	22.9	38.2	38.2	30.5	11.5	7.6
87.5°	0.0	0.0	7.6	11.5	19.1	26.7	38.2	30.5	11.5	3.8
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°
20632.2	0°	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2	20632.2
20567.3	2.5°	20670.3	20647.4	20723.8	20754.3	20796.3	20636.0	20536.7	20540.5	20357.3
20334.4	5°	20456.5	20460.4	20559.6	20552.0	20594.0	20506.2	20468.0	20403.1	20242.7
20040.4	7.5°	20185.5	20151.1	20246.6	20319.1	20212.2	20273.3	20185.5	20216.0	20120.6
19780.8	10°	19975.5	19895.3	19983.1	20032.7	20036.6	19975.5	19891.5	19811.3	19776.9
19376.1	12.5°	19509.7	19406.6	19555.5	19624.2	19612.8	19494.4	19399.0	19418.1	19307.3
18665.9	15°	18868.3	18872.1	18979.0	19043.9	18982.8	18956.1	18963.7	18917.9	18822.5
17684.7	17.5°	17887.1	17944.3	18226.9	18383.4	18417.8	18364.3	18337.6	18284.1	18188.7
16119.4	20°	16253.0	16596.6	17100.6	17585.4	17680.9	17665.6	17570.2	17547.3	17493.8
14569.3	22.5°	14817.4	15073.2	15657.4	16413.3	16802.8	16840.9	16726.4	16692.0	16634.8
13183.4	25°	13332.3	13607.1	14134.0	14954.9	15760.5	15924.6	15905.6	15802.5	15741.4
11954.0	27.5°	12080.0	12354.9	12832.1	13572.8	14435.6	14962.5	15012.2	14848.0	14844.2
10858.2	30°	10949.9	11327.8	11690.5	12293.8	13129.9	13920.2	14004.2	13889.7	13901.1
9854.1	32.5°	10064.1	10377.2	10686.4	11091.1	11786.0	12706.1	13034.5	12927.6	12885.6
9018.0	35°	9159.2	9373.1	9689.9	10060.3	10533.7	11446.2	12015.1	11934.9	11892.9
7887.9	37.5°	8128.4	8494.9	8724.0	9140.2	9510.5	10235.9	11037.7	11026.2	10938.4
6925.7	40°	7070.8	7456.4	7803.9	8223.8	8510.2	9086.7	9976.3	9972.5	9983.9
5929.3	42.5°	6112.5	6467.6	6887.6	7345.7	7620.6	8040.6	8995.1	9048.5	9113.4
5108.4	45°	5245.9	5566.6	5956.0	6513.4	6845.6	7086.1	7933.7	8178.0	8174.2
4375.4	47.5°	4467.0	4768.6	5097.0	5639.1	6062.9	6280.5	6983.0	7330.5	7307.5
3588.9	50°	3749.2	4016.5	4360.1	4753.3	5322.2	5513.1	6036.2	6494.3	6460.0
2859.6	52.5°	3016.2	3386.5	3676.7	4035.6	4635.0	4822.1	5226.8	5673.5	5646.7
2145.7	55°	2351.9	2710.7	3062.0	3371.2	3875.2	4153.9	4444.1	4902.2	4894.6
1679.9	57.5°	1779.2	2172.4	2504.6	2798.6	3199.4	3543.1	3775.9	4192.1	4245.6
1149.2	60°	1317.2	1618.8	1977.7	2306.0	2622.9	2978.0	3134.5	3543.1	3566.0
786.5	62.5°	897.2	1229.4	1580.6	1878.4	2115.1	2481.7	2622.9	2958.9	3000.9
504.0	65°	622.3	836.1	1237.0	1450.8	1741.0	2054.1	2195.3	2462.6	2546.6
290.2	67.5°	412.3	595.6	965.9	1160.7	1447.0	1660.8	1840.2	2057.9	2149.5
183.3	70°	225.3	439.1	691.0	916.3	1164.5	1370.6	1546.3	1721.9	1802.1
84.0	72.5°	152.7	294.0	481.1	725.4	939.2	1141.6	1298.1	1427.9	1431.7
49.6	75°	76.4	198.5	366.5	561.2	733.0	931.6	1072.8	1149.2	1057.6
30.5	77.5°	45.8	145.1	297.8	450.5	595.6	752.1	832.3	874.3	725.4
22.9	80°	26.7	103.1	232.9	358.9	412.3	553.6	630.0	641.4	484.9
15.3	82.5°	19.1	76.4	183.3	263.4	252.0	389.4	473.4	458.2	309.3
11.5	85°	11.5	53.5	114.5	164.2	152.7	255.8	274.9	282.5	179.4
7.6	87.5°	7.6	30.5	61.1	87.8	72.5	110.7	110.7	133.6	87.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
20632.2  
*20120.6*  
20204.6  
19960.2  
19624.2  
19211.9  
18727.0  
18146.7  
17371.6  
16619.5  
15676.5  
14836.5  
13843.9  
12889.4  
11835.6  
11010.9  
9983.9  
9079.1  
8181.9  
7315.2  
6490.5  
5704.0  
4913.7  
4222.6  
3600.3  
3008.5  
2527.5  
2138.0  
1771.5  
1397.4  
988.8  
698.7  
454.3  
286.3  
164.2  
76.4  
0.0

(END OF REPORT)