

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: P638184

Luminaire Tested: **IFLD-L-SA8B-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638184  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31304.8 lumens  
Efficiency: N/A  
Efficacy: 97.8 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): 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

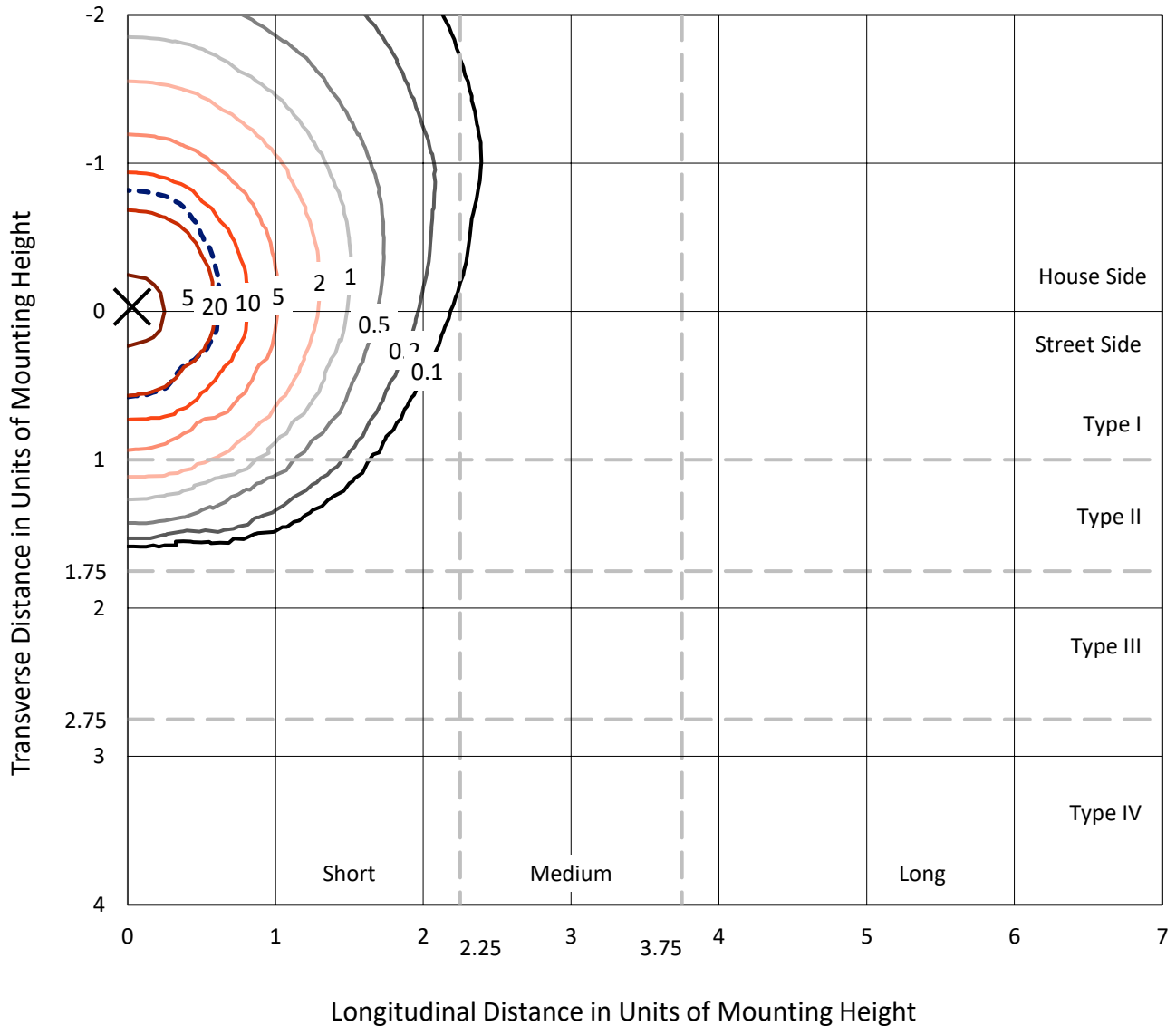




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### Iso-Footcandle Lines of Horizontal Illumination

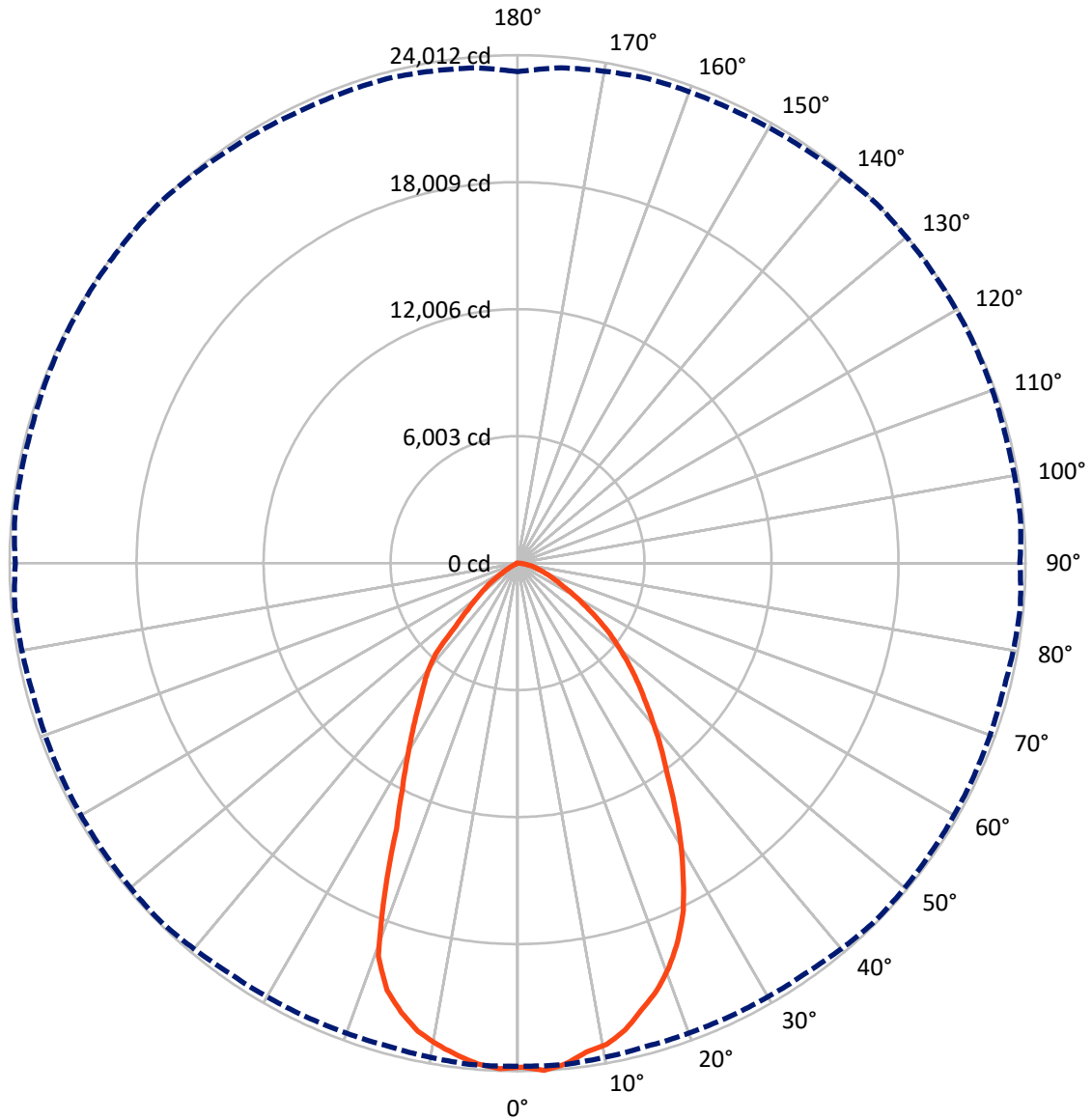
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.6 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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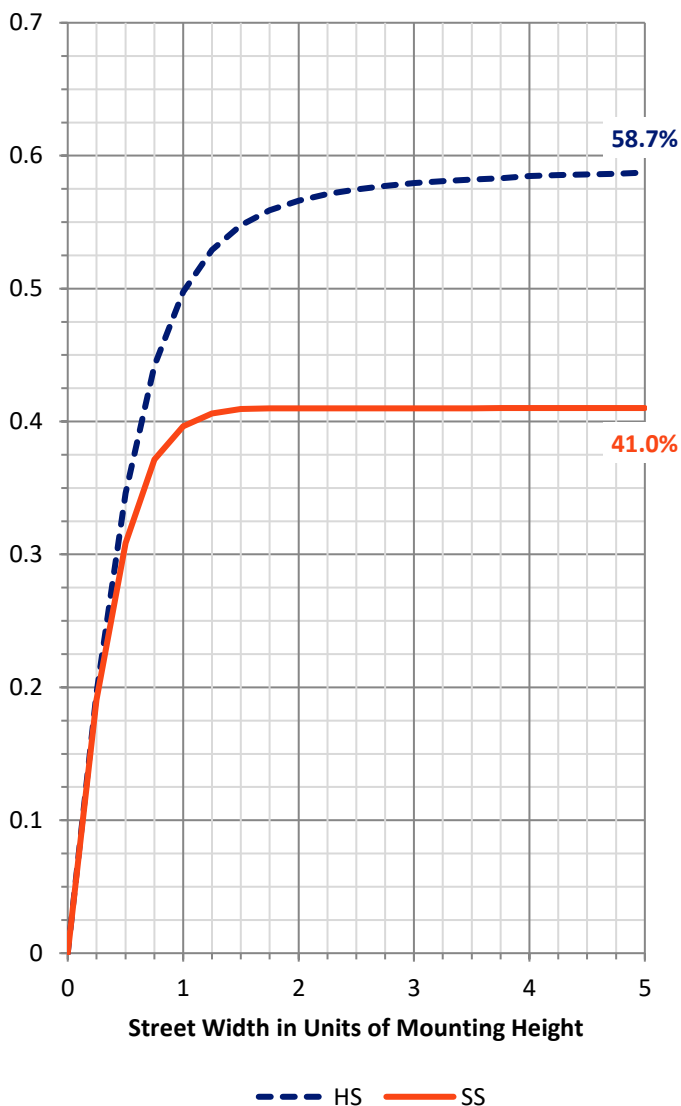
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18540.3	0.0	18540.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	12764.5	0.0	12764.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	31304.8	0.0	31304.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2234.2	7.1
10°-20°	5991.2	19.1
20°-30°	7306.6	23.3
30°-40°	6670.8	21.3
40°-50°	4820.8	15.4
50°-60°	2632.2	8.4
60°-70°	1088.3	3.5
70°-80°	440.8	1.4
80°-90°	119.9	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°	31304.8	100.0
0°-180°	31304.8	100.0



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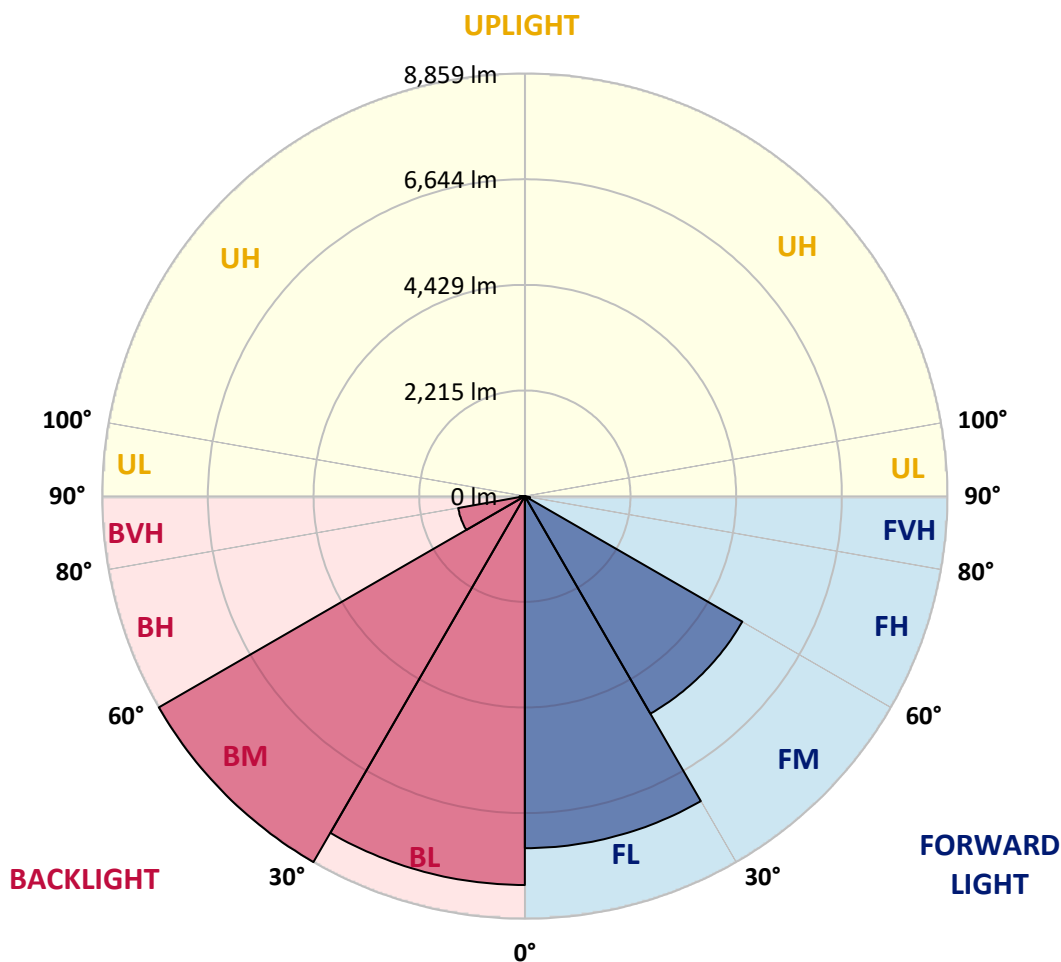
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7379.7	23.6			
FM (30°-60°)	5264.9	16.8			
FH (60°-80°)	110.3	0.4			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	8152.2	26.0	B5		
BM (30°-60°)	8859.0	28.3	B5		
BH (60°-80°)	1418.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	110.3	0.4			G2/225
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°	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8
2.5°	23778.8	23809.6	23642.1	23659.7	23690.6	23915.4	23858.1	23805.2	23730.3	23858.1
5°	23747.9	23765.5	23589.2	23527.5	23553.9	23756.7	23571.6	23571.6	23553.9	23531.9
7.5°	23509.9	23518.7	23382.0	23271.8	23342.3	23434.9	23298.3	23364.4	23267.4	23342.3
10°	23152.8	23095.5	22932.4	22901.5	22980.8	23069.0	22976.4	23038.2	22950.0	23007.3
12.5°	22628.2	22540.0	22407.8	22368.1	22504.7	22623.8	22548.8	22513.6	22398.9	22540.0
15°	20604.7	20538.6	20838.4	21363.0	21834.7	21936.1	21856.7	21892.0	21653.9	21693.6
17.5°	16959.0	16835.6	17157.4	18400.5	20172.7	21107.3	21036.8	20807.5	20454.8	20534.2
20°	15411.7	15376.4	15341.1	15636.5	16875.3	19709.8	19806.8	19224.9	18722.4	18612.1
22.5°	14538.8	14525.6	14490.3	14556.4	14882.7	16703.3	17814.2	17276.4	16941.4	16910.5
25°	13740.9	13718.9	13613.1	13696.8	13696.8	13802.6	15226.5	15552.7	15257.4	15222.1
27.5°	12929.8	12890.1	12872.4	12912.1	12709.3	11995.2	12356.7	13948.1	13793.8	13802.6
30°	12052.5	12039.3	11990.8	12074.5	11448.5	10562.5	10333.2	12493.3	12524.2	12515.4
32.5°	10747.6	10804.9	11025.3	11117.9	10086.4	9354.6	8971.0	10809.3	11439.7	11426.5
35°	7807.2	7807.2	8525.8	9861.5	8838.8	8287.7	8080.5	9165.0	10368.5	10412.6
37.5°	6418.6	6440.6	6581.7	7190.1	7626.5	7432.5	7370.8	7714.7	8993.1	9063.6
40°	5775.0	5775.0	5775.0	5523.7	5510.5	6696.3	6661.1	6550.8	7767.6	7921.8
42.5°	5188.7	5201.9	5210.7	4575.9	4223.2	5788.2	5708.8	5541.3	6669.9	6850.6
45°	4584.7	4606.7	4633.2	3826.5	3672.2	4165.9	4831.6	4646.4	5585.4	5819.1
47.5°	2799.3	2834.6	3434.1	3244.6	3262.2	3213.7	3941.1	3910.2	4580.3	4910.9
50°	1891.2	1904.4	1961.7	2058.7	2799.3	2526.0	2790.5	3235.7	3478.2	3980.8
52.5°	1587.0	1609.1	1468.0	1335.7	1838.3	1975.0	1948.5	2402.6	2499.5	3121.1
55°	1115.3	1185.9	1119.7	1106.5	1044.8	1534.1	1476.8	1847.1	1908.8	2371.7
57.5°	114.6	132.3	229.2	824.4	683.3	868.4	1053.6	1353.4	1415.1	1750.1
60°	8.8	8.8	22.0	114.6	498.1	520.2	727.4	833.2	952.2	1221.1
62.5°	0.0	4.4	8.8	17.6	79.4	277.7	365.9	436.4	573.1	789.1
65°	0.0	0.0	4.4	13.2	17.6	105.8	141.1	229.2	313.0	489.3
67.5°	0.0	0.0	4.4	8.8	13.2	26.5	48.5	83.8	167.5	277.7
70°	0.0	0.0	4.4	8.8	13.2	22.0	35.3	52.9	74.9	149.9
72.5°	0.0	0.0	4.4	4.4	8.8	22.0	26.5	35.3	52.9	74.9
75°	0.0	0.0	4.4	4.4	13.2	26.5	22.0	26.5	35.3	48.5
77.5°	0.0	0.0	4.4	8.8	13.2	26.5	22.0	26.5	26.5	30.9
80°	0.0	0.0	4.4	8.8	17.6	30.9	26.5	26.5	22.0	22.0
82.5°	0.0	0.0	4.4	13.2	17.6	39.7	39.7	35.3	17.6	13.2
85°	0.0	0.0	8.8	17.6	26.5	44.1	44.1	35.3	13.2	8.8
87.5°	0.0	0.0	8.8	13.2	22.0	30.9	44.1	35.3	13.2	4.4
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°
23822.8	0°	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8	23822.8
23747.9	2.5°	23866.9	23840.5	23928.6	23963.9	24012.4	23827.3	23712.6	23717.0	23505.4
23479.0	5°	23620.1	23624.5	23739.1	23730.3	23778.8	23677.4	23633.3	23558.3	23373.2
23139.5	7.5°	23307.1	23267.4	23377.6	23461.4	23337.9	23408.5	23307.1	23342.3	23232.1
22839.8	10°	23064.6	22972.0	23073.4	23130.7	23135.1	23064.6	22967.6	22875.0	22835.4
22372.5	12.5°	22526.8	22407.8	22579.7	22659.0	22645.8	22509.2	22398.9	22421.0	22293.1
21552.5	15°	21786.2	21790.6	21914.0	21989.0	21918.4	21887.6	21896.4	21843.5	21733.3
20419.6	17.5°	20653.2	20719.4	21045.6	21226.3	21266.0	21204.3	21173.4	21111.7	21001.5
18612.1	20°	18766.4	19163.2	19745.1	20305.0	20415.2	20397.5	20287.3	20260.9	20199.2
16822.4	22.5°	17108.9	17404.3	18078.7	18951.6	19401.2	19445.3	19313.1	19273.4	19207.3
15222.1	25°	15394.0	15711.4	16319.8	17267.6	18197.8	18387.3	18365.3	18246.3	18175.7
13802.6	27.5°	13948.1	14265.5	14816.5	15671.8	16668.1	17276.4	17333.7	17144.2	17139.8
12537.4	30°	12643.2	13079.6	13498.4	14195.0	15160.4	16072.9	16169.9	16037.7	16050.9
11378.0	32.5°	11620.5	11982.0	12339.0	12806.3	13608.6	14671.1	15050.2	14926.8	14878.3
10412.6	35°	10575.7	10822.6	11188.5	11616.1	12162.7	13216.3	13873.1	13780.6	13732.1
9107.7	37.5°	9385.4	9808.6	10073.1	10553.6	10981.3	11818.8	12744.6	12731.4	12630.0
7996.8	40°	8164.3	8609.6	9010.7	9495.6	9826.3	10491.9	11519.1	11514.7	11527.9
6846.2	42.5°	7057.8	7467.8	7952.7	8481.7	8799.1	9284.0	10386.1	10447.8	10522.8
5898.4	45°	6057.1	6427.4	6877.1	7520.7	7904.2	8181.9	9160.6	9442.7	9438.3
5052.0	47.5°	5157.8	5506.1	5885.2	6511.2	7000.5	7251.8	8062.9	8464.1	8437.6
4143.9	50°	4329.0	4637.6	5034.4	5488.4	6145.3	6365.7	6969.6	7498.6	7459.0
3301.9	52.5°	3482.6	3910.2	4245.3	4659.7	5351.8	5567.8	6035.1	6550.8	6520.0
2477.5	55°	2715.6	3129.9	3535.5	3892.6	4474.5	4796.3	5131.3	5660.4	5651.5
1939.7	57.5°	2054.3	2508.4	2891.9	3231.3	3694.2	4091.0	4359.9	4840.4	4902.1
1326.9	60°	1520.9	1869.2	2283.5	2662.7	3028.6	3438.5	3619.3	4091.0	4117.4
908.1	62.5°	1036.0	1419.5	1825.1	2168.9	2442.2	2865.4	3028.6	3416.5	3465.0
581.9	65°	718.6	965.4	1428.3	1675.2	2010.2	2371.7	2534.8	2843.4	2940.4
335.0	67.5°	476.1	687.7	1115.3	1340.1	1670.8	1917.6	2124.8	2376.1	2481.9
211.6	70°	260.1	507.0	797.9	1058.0	1344.6	1582.6	1785.4	1988.2	2080.8
97.0	72.5°	176.3	339.4	555.5	837.6	1084.5	1318.1	1498.8	1648.7	1653.1
57.3	75°	88.2	229.2	423.2	648.0	846.4	1075.6	1238.8	1326.9	1221.1
35.3	77.5°	52.9	167.5	343.9	520.2	687.7	868.4	961.0	1009.5	837.6
26.5	80°	30.9	119.0	268.9	414.4	476.1	639.2	727.4	740.6	559.9
17.6	82.5°	22.0	88.2	211.6	304.2	291.0	449.7	546.6	529.0	357.1
13.2	85°	13.2	61.7	132.3	189.6	176.3	295.4	317.4	326.2	207.2
8.8	87.5°	8.8	35.3	70.5	101.4	83.8	127.8	127.8	154.3	101.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
23822.8  
**23232.1**  
23329.1  
23047.0  
22659.0  
22182.9  
21623.1  
20953.0  
20058.1  
19189.6  
18100.8  
17130.9  
15984.8  
14882.7  
13666.0  
12713.7  
11527.9  
10483.1  
9447.1  
8446.4  
7494.2  
6586.1  
5673.6  
4875.7  
4157.1  
3473.8  
2918.3  
2468.7  
2045.5  
1613.5  
1141.8  
806.7  
524.6  
330.6  
189.6  
88.2  
0.0

(END OF REPORT)