

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: P638094

Luminaire Tested: **IFLD-L-SA7D-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638094
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31378.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

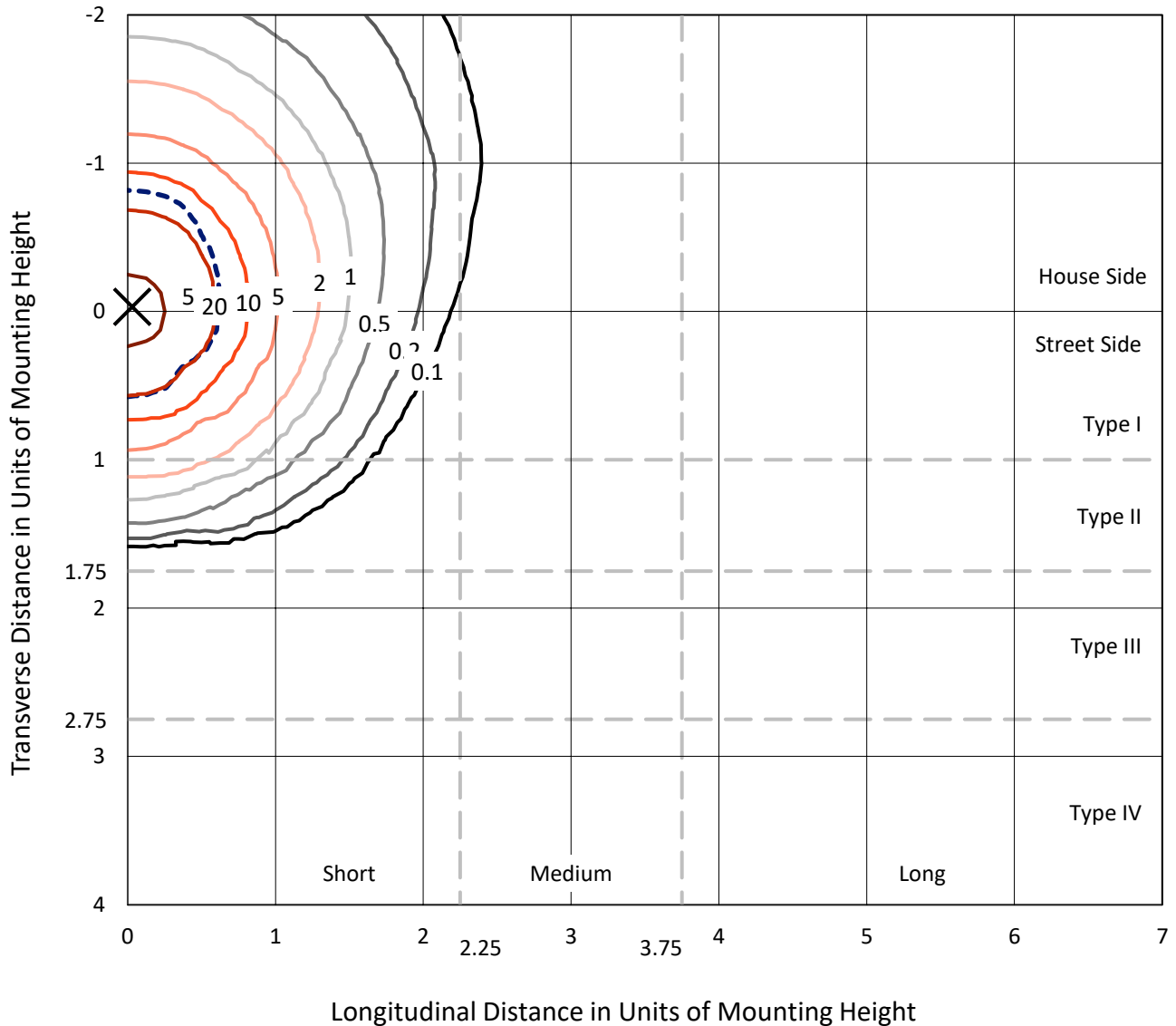
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

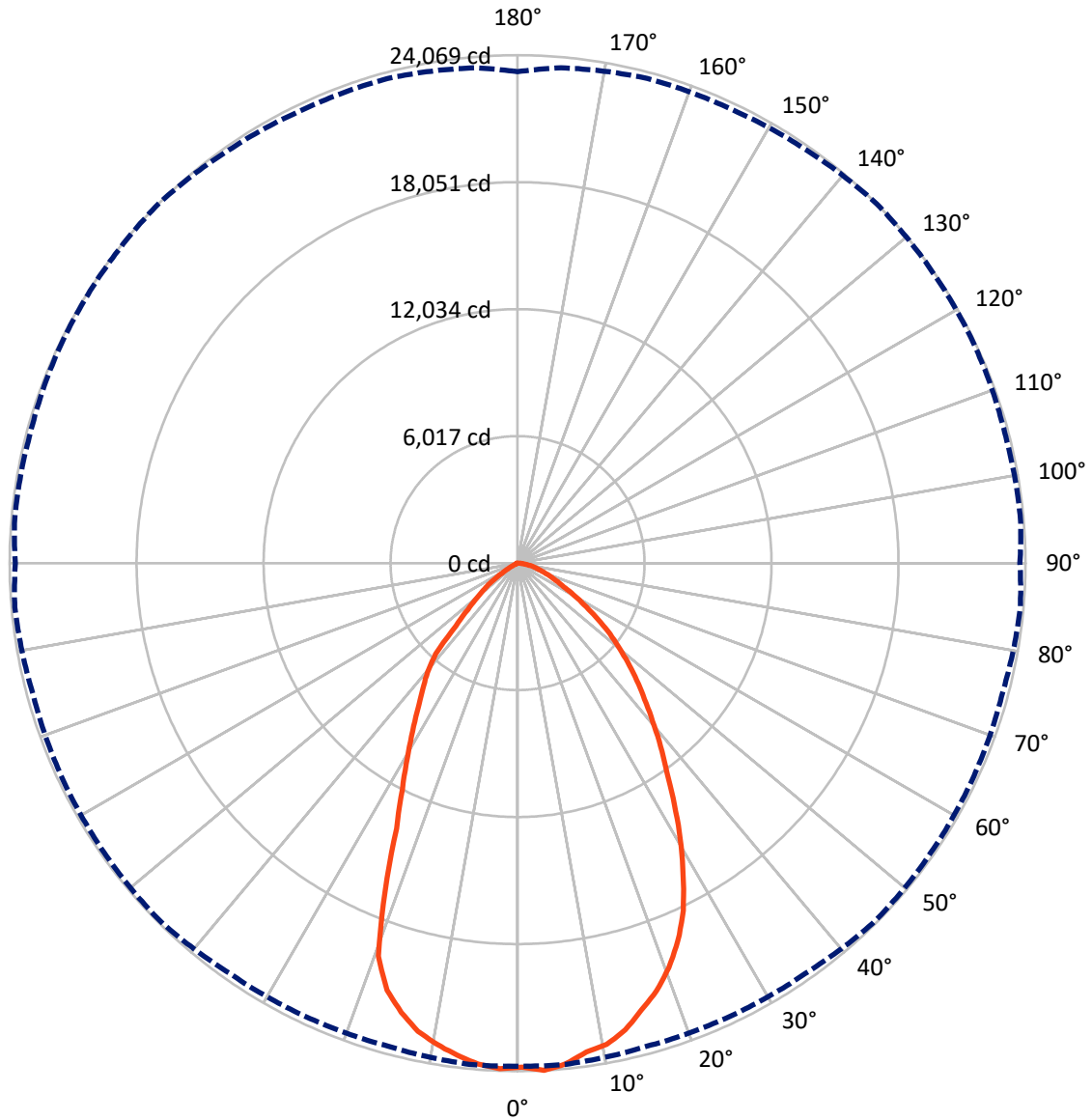
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.7 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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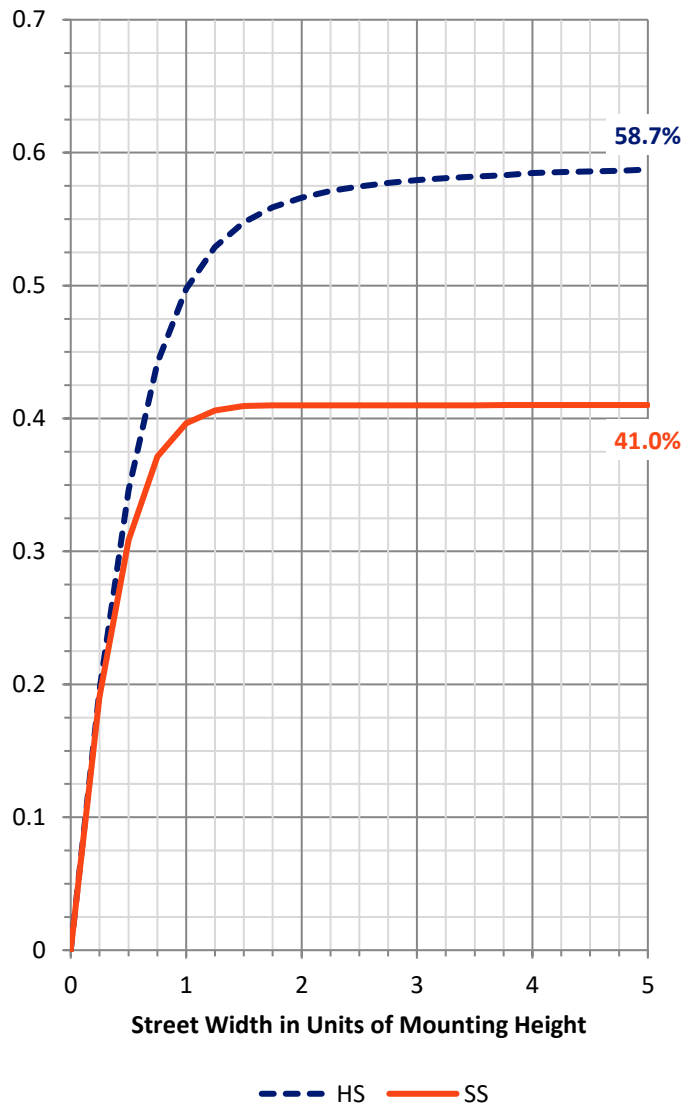
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18583.7	0.0	18583.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12794.4	0.0	12794.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	31378.1	0.0	31378.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2239.4	7.1
10°-20°	6005.2	19.1
20°-30°	7323.7	23.3
30°-40°	6686.4	21.3
40°-50°	4832.1	15.4
50°-60°	2638.4	8.4
60°-70°	1090.9	3.5
70°-80°	441.8	1.4
80°-90°	120.2	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°	31378.1	100.0
0°-180°	31378.1	100.0



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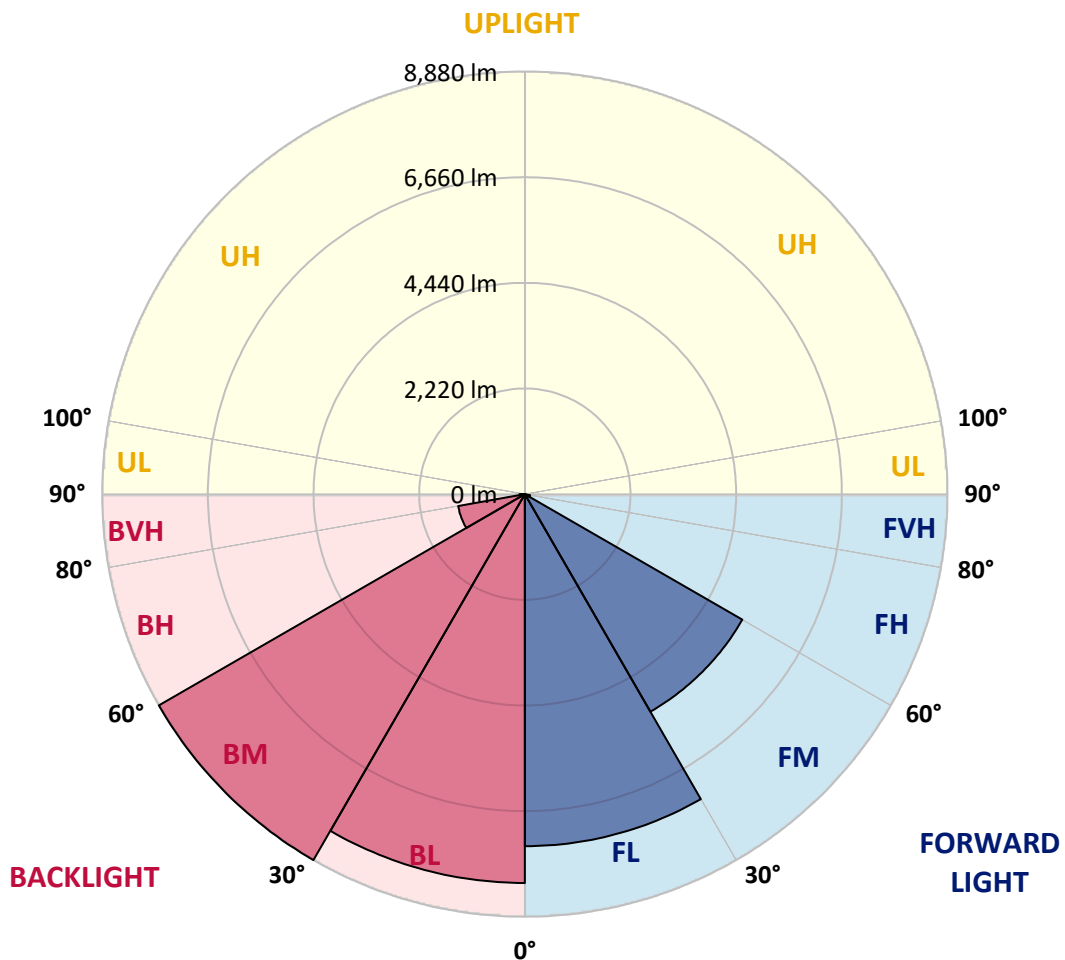
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7397.0	23.6			
FM (30°-60°)	5277.2	16.8			
FH (60°-80°)	110.6	0.4			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	8171.3	26.0	B5		
BM (30°-60°)	8879.7	28.3	B5		
BH (60°-80°)	1422.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	110.5	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°	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6
2.5°	23834.4	23865.3	23697.4	23715.1	23746.0	23971.4	23914.0	23860.9	23785.8	23914.0
5°	23803.5	23821.2	23644.4	23582.6	23609.1	23812.3	23626.7	23626.7	23609.1	23587.0
7.5°	23564.9	23573.7	23436.7	23326.3	23397.0	23489.8	23352.8	23419.1	23321.8	23397.0
10°	23207.0	23149.5	22986.0	22955.1	23034.6	23123.0	23030.2	23092.1	23003.7	23061.1
12.5°	22681.1	22592.8	22460.2	22420.4	22557.4	22676.7	22601.6	22566.3	22451.4	22592.8
15°	20653.0	20586.7	20887.1	21413.0	21885.8	21987.4	21907.9	21943.2	21704.6	21744.4
17.5°	16998.7	16875.0	17197.5	18443.6	20219.9	21156.7	21086.0	20856.2	20502.7	20582.3
20°	15447.7	15412.4	15377.0	15673.1	16914.7	19756.0	19853.2	19269.9	18766.2	18655.7
22.5°	14572.8	14559.6	14524.2	14590.5	14917.5	16742.4	17855.9	17316.8	16981.0	16950.1
25°	13773.1	13751.0	13644.9	13728.9	13728.9	13834.9	15262.2	15589.1	15293.1	15257.7
27.5°	12960.0	12920.3	12902.6	12942.3	12739.1	12023.3	12385.6	13980.7	13826.1	13834.9
30°	12080.7	12067.4	12018.8	12102.8	11475.3	10587.2	10357.4	12522.6	12553.5	12544.7
32.5°	10772.8	10830.2	11051.1	11143.9	10110.0	9376.5	8992.0	10834.6	11466.5	11453.2
35°	7825.5	7825.5	8545.7	9884.6	8859.5	8307.1	8099.5	9186.5	10392.8	10436.9
37.5°	6433.6	6455.7	6597.1	7206.9	7644.3	7449.9	7388.1	7732.7	9014.1	9084.8
40°	5788.5	5788.5	5788.5	5536.6	5523.4	6712.0	6676.6	6566.2	7785.7	7940.4
42.5°	5200.8	5214.1	5222.9	4586.6	4233.1	5801.7	5722.2	5554.3	6685.5	6866.6
45°	4595.4	4617.5	4644.0	3835.4	3680.8	4175.7	4842.9	4657.3	5598.5	5832.7
47.5°	2805.9	2841.2	3442.2	3252.2	3269.8	3221.2	3950.3	3919.4	4591.0	4922.4
50°	1895.6	1908.9	1966.3	2063.5	2805.9	2531.9	2797.0	3243.3	3486.3	3990.1
52.5°	1590.7	1612.8	1471.4	1338.9	1842.6	1979.6	1953.1	2408.2	2505.4	3128.4
55°	1117.9	1188.6	1122.3	1109.1	1047.2	1537.7	1480.3	1851.4	1913.3	2377.3
57.5°	114.9	132.6	229.8	826.3	684.9	870.5	1056.1	1356.5	1418.4	1754.2
60°	8.8	8.8	22.1	114.9	499.3	521.4	729.1	835.1	954.4	1224.0
62.5°	0.0	4.4	8.8	17.7	79.5	278.4	366.8	437.5	574.4	790.9
65°	0.0	0.0	4.4	13.3	17.7	106.0	141.4	229.8	313.7	490.5
67.5°	0.0	0.0	4.4	8.8	13.3	26.5	48.6	84.0	167.9	278.4
70°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	53.0	75.1	150.2
72.5°	0.0	0.0	4.4	4.4	8.8	22.1	26.5	35.3	53.0	75.1
75°	0.0	0.0	4.4	4.4	13.3	26.5	22.1	26.5	35.3	48.6
77.5°	0.0	0.0	4.4	8.8	13.3	26.5	22.1	26.5	26.5	30.9
80°	0.0	0.0	4.4	8.8	17.7	30.9	26.5	26.5	22.1	22.1
82.5°	0.0	0.0	4.4	13.3	17.7	39.8	39.8	35.3	17.7	13.3
85°	0.0	0.0	8.8	17.7	26.5	44.2	44.2	35.3	13.3	8.8
87.5°	0.0	0.0	8.8	13.3	22.1	30.9	44.2	35.3	13.3	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°
23878.6	0°	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6	23878.6
23803.5	2.5°	23922.8	23896.3	23984.7	24020.0	24068.6	23883.0	23768.1	23772.6	23560.5
23533.9	5°	23675.3	23679.8	23794.6	23785.8	23834.4	23732.8	23688.6	23613.5	23427.9
23193.7	7.5°	23361.6	23321.8	23432.3	23516.3	23392.5	23463.2	23361.6	23397.0	23286.5
22893.2	10°	23118.6	23025.8	23127.4	23184.9	23189.3	23118.6	23021.4	22928.6	22888.8
22424.9	12.5°	22579.5	22460.2	22632.5	22712.1	22698.8	22561.8	22451.4	22473.5	22345.3
21603.0	15°	21837.2	21841.6	21965.3	22040.4	21969.7	21938.8	21947.6	21894.6	21784.1
20467.4	17.5°	20701.6	20767.8	21094.8	21276.0	21315.8	21253.9	21223.0	21161.1	21050.6
18655.7	20°	18810.4	19208.0	19791.3	20352.5	20463.0	20445.3	20334.8	20308.3	20246.4
16861.7	22.5°	17148.9	17445.0	18121.0	18996.0	19446.7	19490.8	19358.3	19318.5	19252.2
15257.7	25°	15430.1	15748.2	16358.0	17308.0	18240.4	18430.4	18408.3	18289.0	18218.3
13834.9	27.5°	13980.7	14298.9	14851.2	15708.4	16707.1	17316.8	17374.3	17184.3	17179.9
12566.8	30°	12672.8	13110.3	13530.0	14228.2	15195.9	16110.5	16207.8	16075.2	16088.5
11404.6	32.5°	11647.7	12010.0	12367.9	12836.3	13640.5	14705.4	15085.4	14961.7	14913.1
10436.9	35°	10600.4	10847.9	11214.6	11643.2	12191.2	13247.2	13905.6	13812.8	13764.2
9129.0	37.5°	9407.4	9831.6	10096.7	10578.3	11007.0	11846.5	12774.4	12761.2	12659.5
8015.5	40°	8183.4	8629.7	9031.8	9517.9	9849.3	10516.5	11546.0	11541.6	11554.9
6862.2	42.5°	7074.3	7485.3	7971.3	8501.6	8819.7	9305.8	10410.4	10472.3	10547.4
5912.2	45°	6071.3	6442.5	6893.2	7538.3	7922.7	8201.1	9182.0	9464.8	9460.4
5063.8	47.5°	5169.9	5518.9	5899.0	6526.4	7016.9	7268.7	8081.8	8483.9	8457.4
4153.6	50°	4339.2	4648.5	5046.1	5501.3	6159.7	6380.6	6985.9	7516.2	7476.4
3309.6	52.5°	3490.8	3919.4	4255.2	4670.6	5364.3	5580.8	6049.2	6566.2	6535.2
2483.3	55°	2721.9	3137.3	3543.8	3901.7	4485.0	4807.5	5143.4	5673.6	5664.8
1944.2	57.5°	2059.1	2514.2	2898.7	3238.9	3702.9	4100.5	4370.1	4851.7	4913.6
1330.0	60°	1524.4	1873.5	2288.9	2668.9	3035.6	3446.6	3627.7	4100.5	4127.1
910.3	62.5°	1038.4	1422.8	1829.3	2174.0	2448.0	2872.1	3035.6	3424.5	3473.1
583.3	65°	720.2	967.7	1431.7	1679.1	2014.9	2377.3	2540.7	2850.1	2947.3
335.8	67.5°	477.2	689.3	1117.9	1343.3	1674.7	1922.1	2129.8	2381.7	2487.7
212.1	70°	260.7	508.1	799.8	1060.5	1347.7	1586.3	1789.6	1992.8	2085.6
97.2	72.5°	176.7	340.2	556.8	839.6	1087.0	1321.2	1502.4	1652.6	1657.0
57.4	75°	88.4	229.8	424.2	649.5	848.4	1078.2	1241.7	1330.0	1224.0
35.3	77.5°	53.0	167.9	344.7	521.4	689.3	870.5	963.3	1011.9	839.6
26.5	80°	30.9	119.3	269.5	415.4	477.2	640.7	729.1	742.3	561.2
17.7	82.5°	22.1	88.4	212.1	304.9	291.6	450.7	547.9	530.2	357.9
13.3	85°	13.3	61.9	132.6	190.0	176.7	296.1	318.1	327.0	207.7
8.8	87.5°	8.8	35.3	70.7	101.6	84.0	128.1	128.1	154.7	101.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23878.6
23286.5
23383.7
23100.9
22712.1
22234.9
21673.7
21002.0
20105.0
19234.6
18143.1
17171.0
16022.2
14917.5
13697.9
12743.5
11554.9
10507.6
9469.3
8466.2
7511.8
6601.5
5686.9
4887.1
4166.8
3481.9
2925.2
2474.5
2050.3
1617.2
1144.4
808.6
525.8
331.4
190.0
88.4
0.0

(END OF REPORT)