

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: EPHESUS

Report Number: P638797

Luminaire Tested: **EPH-VN-08-E-740-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-77-VI
Description: EPHESUS LUMAVISION 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: 52662.7 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

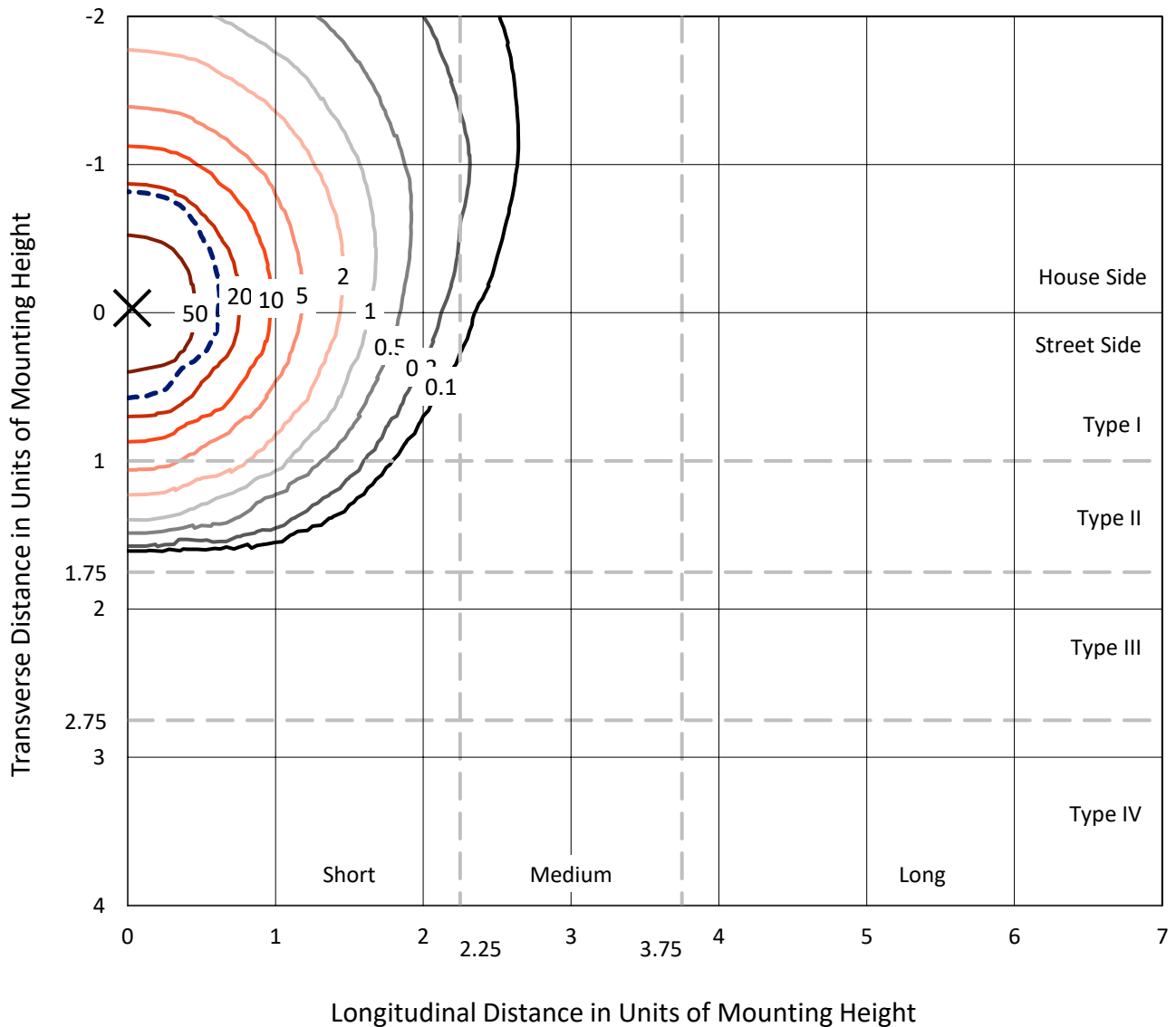
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

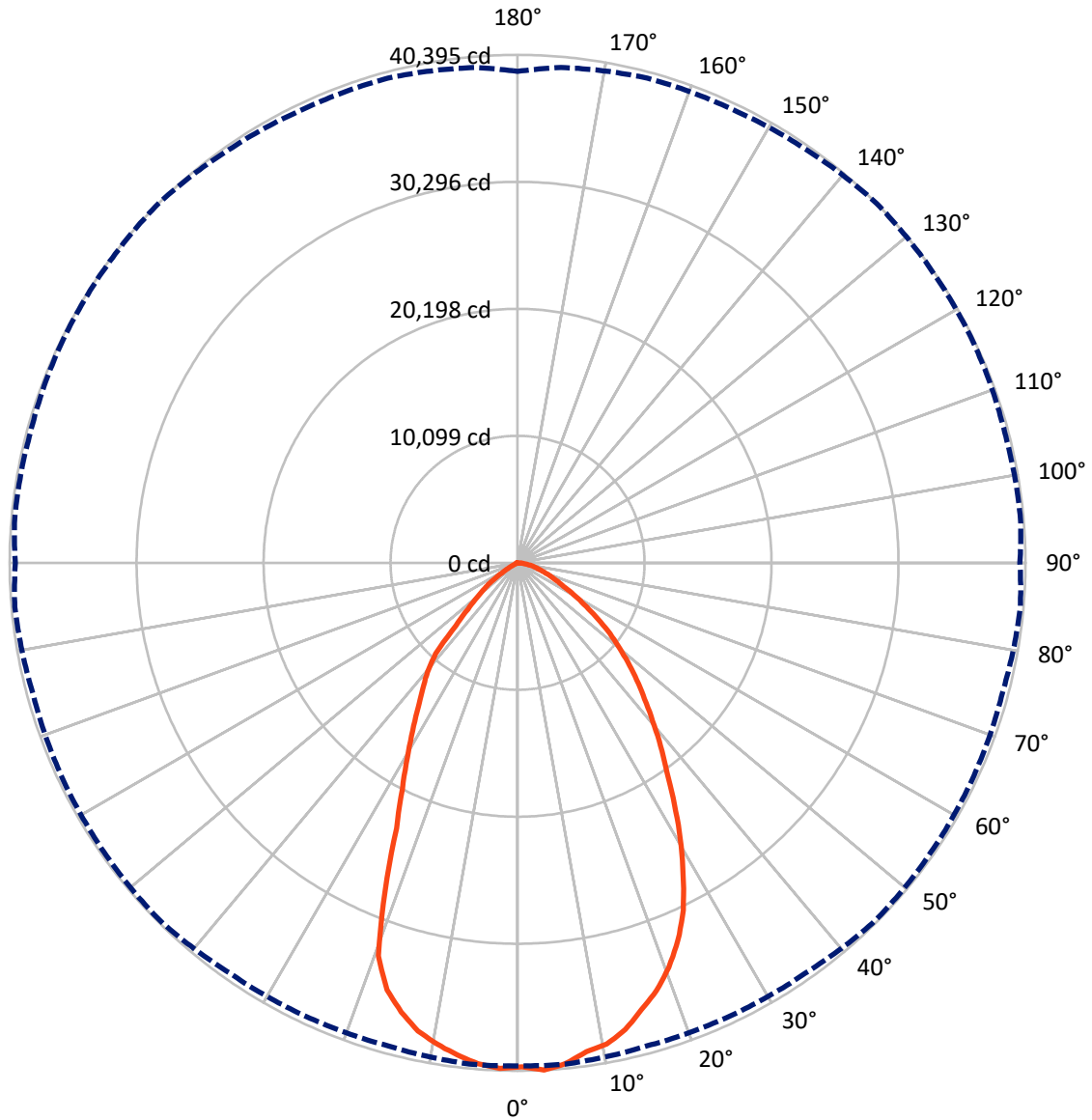
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 100.2 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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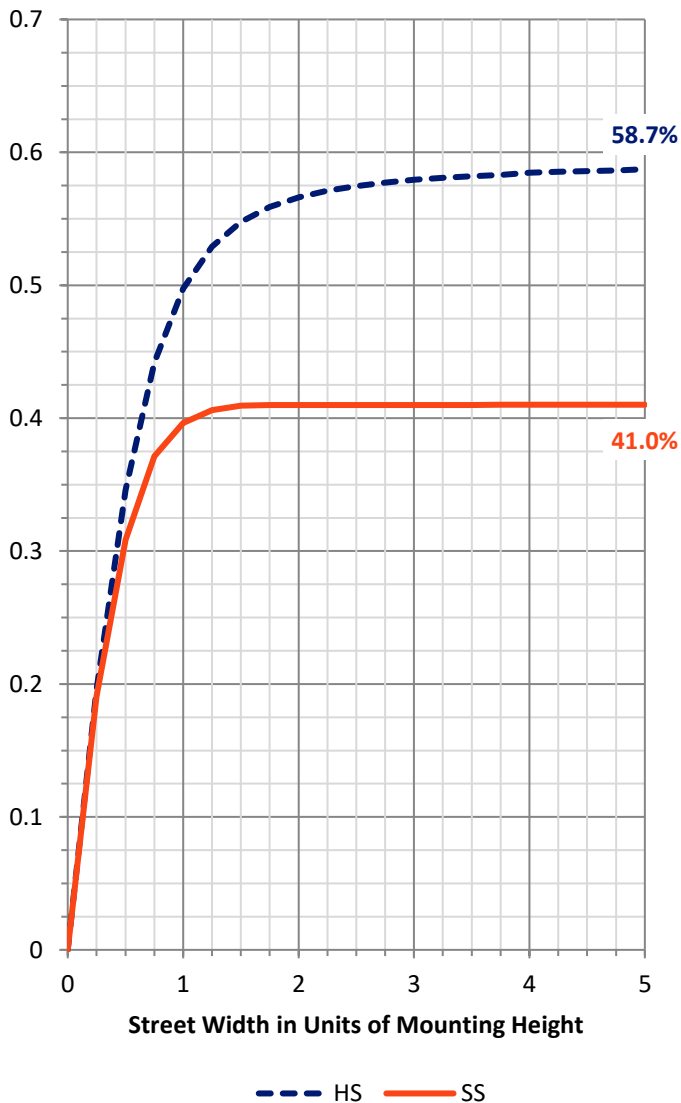
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31189.5	0.0	31189.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	21473.1	0.0	21473.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	52662.7	0.0	52662.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3758.5	7.1
10°-20°	10078.7	19.1
20°-30°	12291.5	23.3
30°-40°	11222.0	21.3
40°-50°	8109.9	15.4
50°-60°	4428.1	8.4
60°-70°	1830.9	3.5
70°-80°	741.5	1.4
80°-90°	201.7	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°	52662.7	100.0
0°-180°	52662.7	100.0

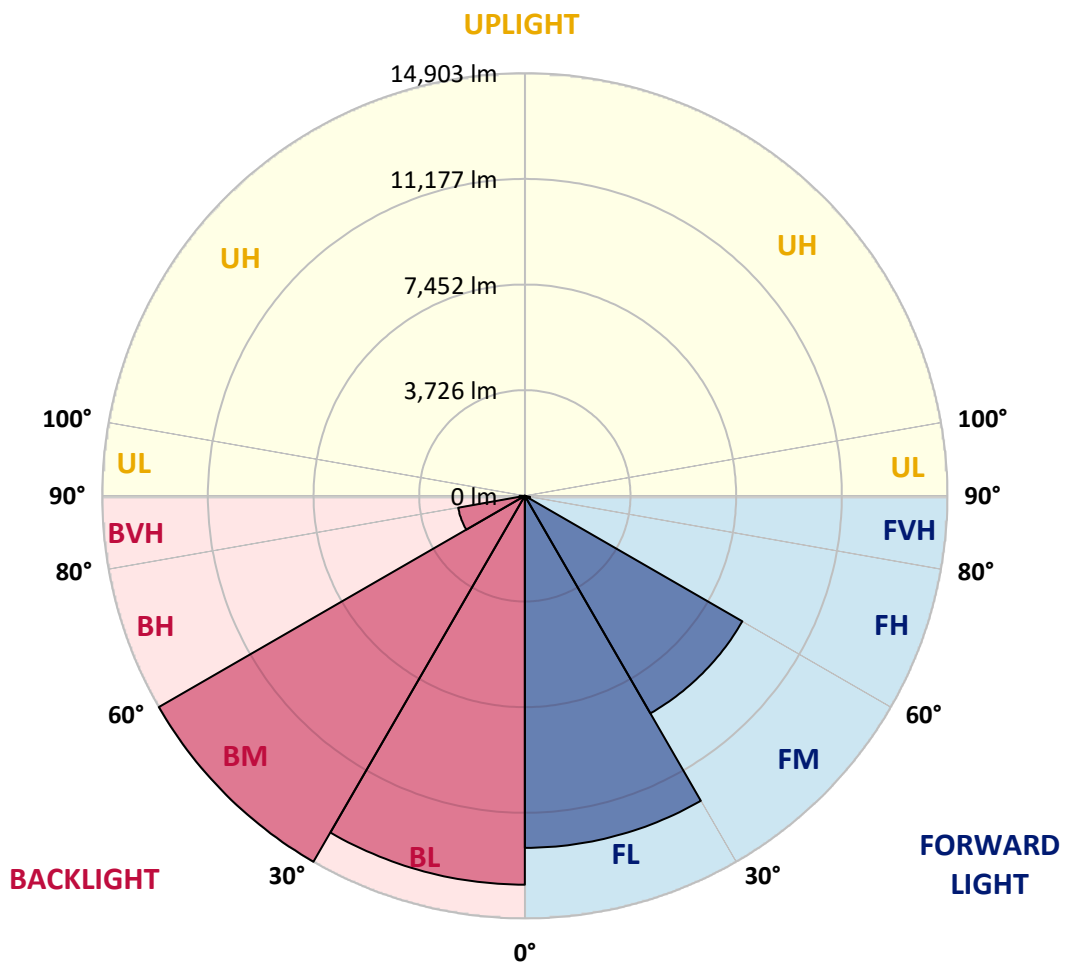


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12414.5	23.6			
FM (30°-60°)	8856.9	16.8			
FH (60°-80°)	185.6	0.4			G0/660
FVH (80°-90°)	16.2	0.0			G1/100
BL (0°-30°)	13714.1	26.0	B5		
BM (30°-60°)	14903.1	28.3	B5		
BH (60°-80°)	2386.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	185.5	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°	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1
2.5°	40002.0	40053.9	39772.1	39801.7	39853.7	40231.9	40135.5	40046.5	39920.4	40135.5
5°	39950.1	39979.7	39683.1	39579.3	39623.8	39964.9	39653.4	39653.4	39623.8	39586.7
7.5°	39549.6	39564.4	39334.5	39149.1	39267.8	39423.5	39193.6	39304.9	39141.7	39267.8
10°	38948.9	38852.5	38578.1	38526.2	38659.7	38808.0	38652.3	38756.1	38607.8	38704.2
12.5°	38066.4	37918.1	37695.6	37628.9	37858.7	38059.0	37932.9	37873.6	37680.8	37918.1
15°	34662.4	34551.2	35055.5	35938.0	36731.5	36902.1	36768.6	36827.9	36427.5	36494.2
17.5°	28529.4	28321.8	28863.1	30954.4	33935.7	35507.9	35389.2	35003.6	34410.3	34543.8
20°	25926.4	25867.1	25807.7	26304.6	28388.5	33157.0	33320.1	32341.2	31495.8	31310.4
22.5°	24458.0	24435.8	24376.4	24487.7	25036.5	28099.3	29968.1	29063.4	28499.7	28447.8
25°	23115.7	23078.6	22900.6	23041.6	23041.6	23219.5	25614.9	26163.7	25666.8	25607.5
27.5°	21751.2	21684.4	21654.8	21721.5	21380.4	20179.0	20787.1	23464.3	23204.7	23219.5
30°	20275.4	20253.1	20171.6	20312.5	19259.4	17768.8	17383.1	21017.0	21068.9	21054.1
32.5°	18080.2	18176.6	18547.4	18703.2	16967.8	15736.8	15091.6	18184.1	19244.6	19222.3
35°	13133.8	13133.8	14342.6	16589.6	14869.1	13942.1	13593.6	15417.9	17442.5	17516.6
37.5°	10797.7	10834.8	11072.1	12095.5	12829.7	12503.4	12399.6	12978.0	15128.7	15247.3
40°	9715.0	9715.0	9715.0	9292.3	9270.0	11264.9	11205.6	11020.2	13067.0	13326.6
42.5°	8728.6	8750.9	8765.7	7697.8	7104.5	9737.2	9603.7	9321.9	11220.4	11524.5
45°	7712.7	7749.7	7794.2	6437.1	6177.5	7008.1	8128.0	7816.5	9396.1	9789.1
47.5°	4709.2	4768.5	5777.1	5458.2	5487.9	5406.3	6629.9	6578.0	7705.2	8261.4
50°	3181.5	3203.7	3300.1	3463.3	4709.2	4249.4	4694.3	5443.4	5851.2	6696.7
52.5°	2669.8	2706.8	2469.5	2247.1	3092.5	3322.4	3277.9	4041.7	4204.9	5250.5
55°	1876.3	1994.9	1883.7	1861.4	1757.6	2580.8	2484.4	3107.3	3211.1	3989.8
57.5°	192.8	222.5	385.6	1386.8	1149.5	1461.0	1772.4	2276.7	2380.5	2944.2
60°	14.8	14.8	37.1	192.8	838.0	875.1	1223.6	1401.6	1601.9	2054.2
62.5°	0.0	7.4	14.8	29.7	133.5	467.2	615.5	734.2	964.1	1327.5
65°	0.0	0.0	7.4	22.2	29.7	178.0	237.3	385.6	526.5	823.2
67.5°	0.0	0.0	7.4	14.8	22.2	44.5	81.6	140.9	281.8	467.2
70°	0.0	0.0	7.4	14.8	22.2	37.1	59.3	89.0	126.1	252.1
72.5°	0.0	0.0	7.4	7.4	14.8	37.1	44.5	59.3	89.0	126.1
75°	0.0	0.0	7.4	7.4	22.2	44.5	37.1	44.5	59.3	81.6
77.5°	0.0	0.0	7.4	14.8	22.2	44.5	37.1	44.5	44.5	51.9
80°	0.0	0.0	7.4	14.8	29.7	51.9	44.5	44.5	37.1	37.1
82.5°	0.0	0.0	7.4	22.2	29.7	66.7	66.7	59.3	29.7	22.2
85°	0.0	0.0	14.8	29.7	44.5	74.2	74.2	59.3	22.2	14.8
87.5°	0.0	0.0	14.8	22.2	37.1	51.9	74.2	59.3	22.2	7.4
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°
40076.1	0°	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1	40076.1
39950.1	2.5°	40150.3	40105.8	40254.1	40313.4	40395.0	40083.6	39890.7	39898.2	39542.2
39497.7	5°	39735.0	39742.4	39935.2	39920.4	40002.0	39831.4	39757.2	39631.2	39319.7
38926.7	7.5°	39208.5	39141.7	39327.1	39468.0	39260.4	39379.0	39208.5	39267.8	39082.4
38422.4	10°	38800.6	38644.8	38815.4	38911.8	38919.2	38800.6	38637.4	38481.7	38415.0
37636.3	12.5°	37895.8	37695.6	37984.8	38118.3	38096.1	37866.2	37680.8	37717.8	37502.8
36256.9	15°	36649.9	36657.4	36865.0	36991.1	36872.4	36820.5	36835.3	36746.3	36560.9
34351.0	17.5°	34744.0	34855.3	35404.0	35708.1	35774.8	35671.0	35619.1	35515.3	35329.9
31310.4	20°	31570.0	32237.4	33216.3	34158.2	34343.6	34313.9	34128.5	34084.0	33980.2
28299.5	22.5°	28781.5	29278.4	30413.1	31881.4	32637.9	32712.0	32489.6	32422.8	32311.6
25607.5	25°	25896.7	26430.7	27454.1	29048.5	30613.3	30932.2	30895.1	30694.9	30576.2
23219.5	27.5°	23464.3	23998.2	24925.2	26363.9	28039.9	29063.4	29159.8	28840.9	28833.5
21091.1	30°	21269.1	22003.3	22707.8	23879.6	25503.7	27038.8	27201.9	26979.5	27001.7
19140.7	32.5°	19548.6	20156.7	20757.4	21543.5	22893.2	24680.5	25318.3	25110.6	25029.0
17516.6	35°	17791.0	18206.3	18821.8	19541.2	20460.8	22233.2	23338.2	23182.5	23100.9
15321.5	37.5°	15788.7	16500.6	16945.6	17753.9	18473.3	19882.3	21439.7	21417.4	21246.9
13452.6	40°	13734.5	14483.5	15158.3	15974.1	16530.3	17650.1	19378.0	19370.6	19392.9
11517.1	42.5°	11873.0	12562.7	13378.5	14268.4	14802.4	15618.1	17472.1	17576.0	17702.0
9922.6	45°	10189.6	10812.5	11569.0	12651.7	13296.9	13764.1	15410.5	15885.1	15877.7
8498.8	47.5°	8676.7	9262.6	9900.4	10953.5	11776.6	12199.3	13563.9	14238.7	14194.2
6971.1	50°	7282.5	7801.6	8469.1	9232.9	10337.9	10708.7	11724.7	12614.6	12547.9
5554.6	52.5°	5858.7	6578.0	7141.6	7838.7	9003.0	9366.4	10152.5	11020.2	10968.3
4167.8	55°	4568.3	5265.4	5947.6	6548.3	7527.3	8068.6	8632.2	9522.2	9507.3
3263.0	57.5°	3455.9	4219.7	4864.9	5435.9	6214.6	6882.1	7334.4	8142.8	8246.6
2232.2	60°	2558.5	3144.4	3841.5	4479.3	5094.8	5784.5	6088.5	6882.1	6926.6
1527.7	62.5°	1742.8	2388.0	3070.2	3648.7	4108.5	4820.4	5094.8	5747.4	5829.0
978.9	65°	1208.8	1624.1	2402.8	2818.1	3381.7	3989.8	4264.2	4783.3	4946.5
563.6	67.5°	800.9	1156.9	1876.3	2254.5	2810.7	3226.0	3574.5	3997.2	4175.2
356.0	70°	437.5	852.8	1342.3	1779.8	2261.9	2662.3	3003.5	3344.6	3500.4
163.2	72.5°	296.6	571.0	934.4	1409.0	1824.3	2217.4	2521.4	2773.6	2781.0
96.4	75°	148.3	385.6	711.9	1090.2	1423.9	1809.5	2083.9	2232.2	2054.2
59.3	77.5°	89.0	281.8	578.4	875.1	1156.9	1461.0	1616.7	1698.3	1409.0
44.5	80°	51.9	200.2	452.4	697.1	800.9	1075.3	1223.6	1245.9	941.8
29.7	82.5°	37.1	148.3	356.0	511.7	489.5	756.4	919.6	889.9	600.7
22.2	85°	22.2	103.8	222.5	318.9	296.6	496.9	534.0	548.8	348.6
14.8	87.5°	14.8	59.3	118.7	170.6	140.9	215.1	215.1	259.6	170.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
40076.1
39082.4
39245.5
38770.9
38118.3
37317.4
36375.5
35248.3
33742.9
32281.9
30450.2
28818.6
26890.5
25036.5
22989.6
21387.8
19392.9
17635.3
15892.5
14209.1
12607.2
11079.5
9544.4
8202.1
6993.3
5843.8
4909.4
4153.0
3441.0
2714.3
1920.7
1357.1
882.5
556.2
318.9
148.3
0.0

(END OF REPORT)