

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: P638849

Luminaire Tested: **EPH-VN-07-E-740-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638849  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-740-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41606.8 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

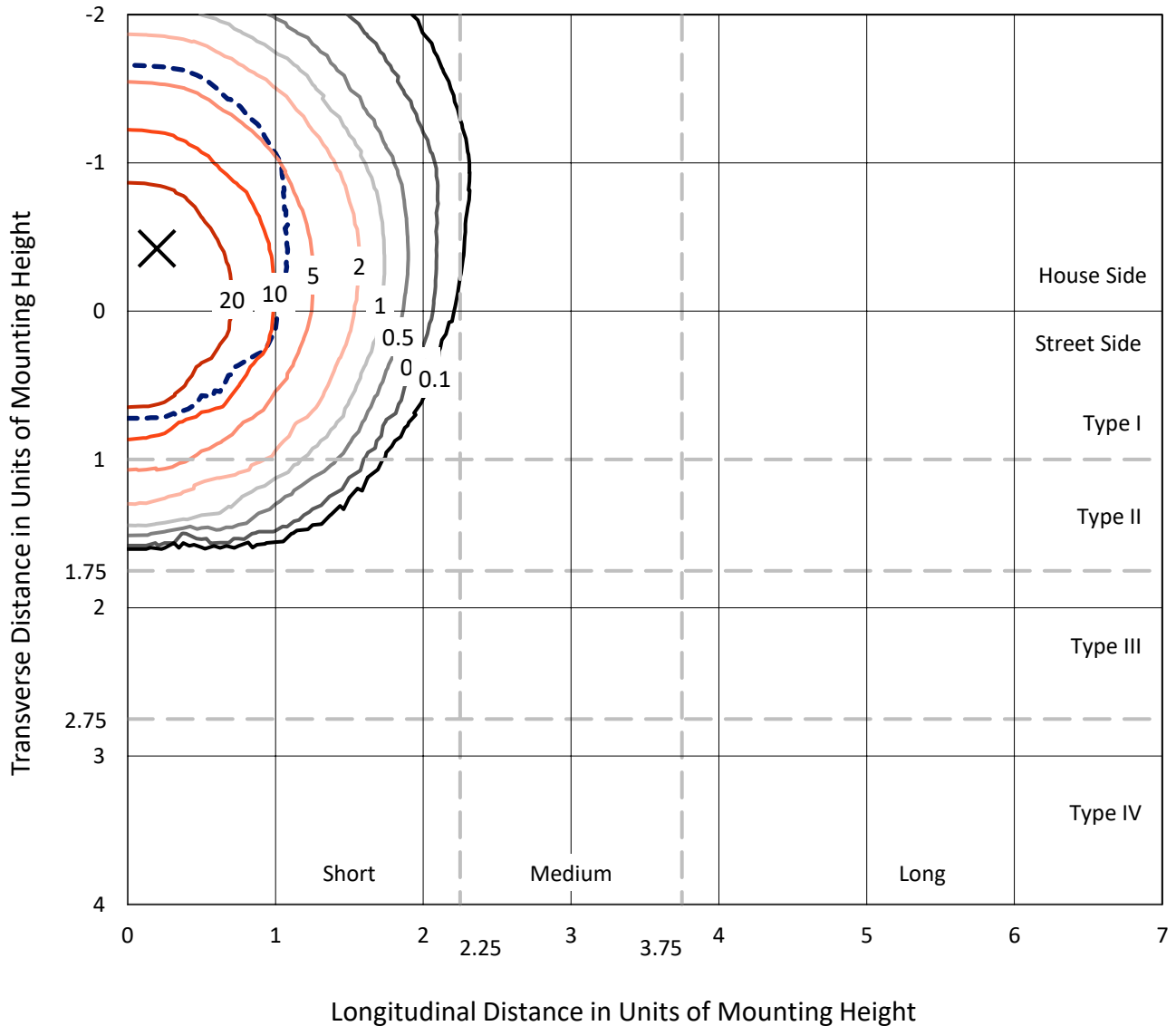
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

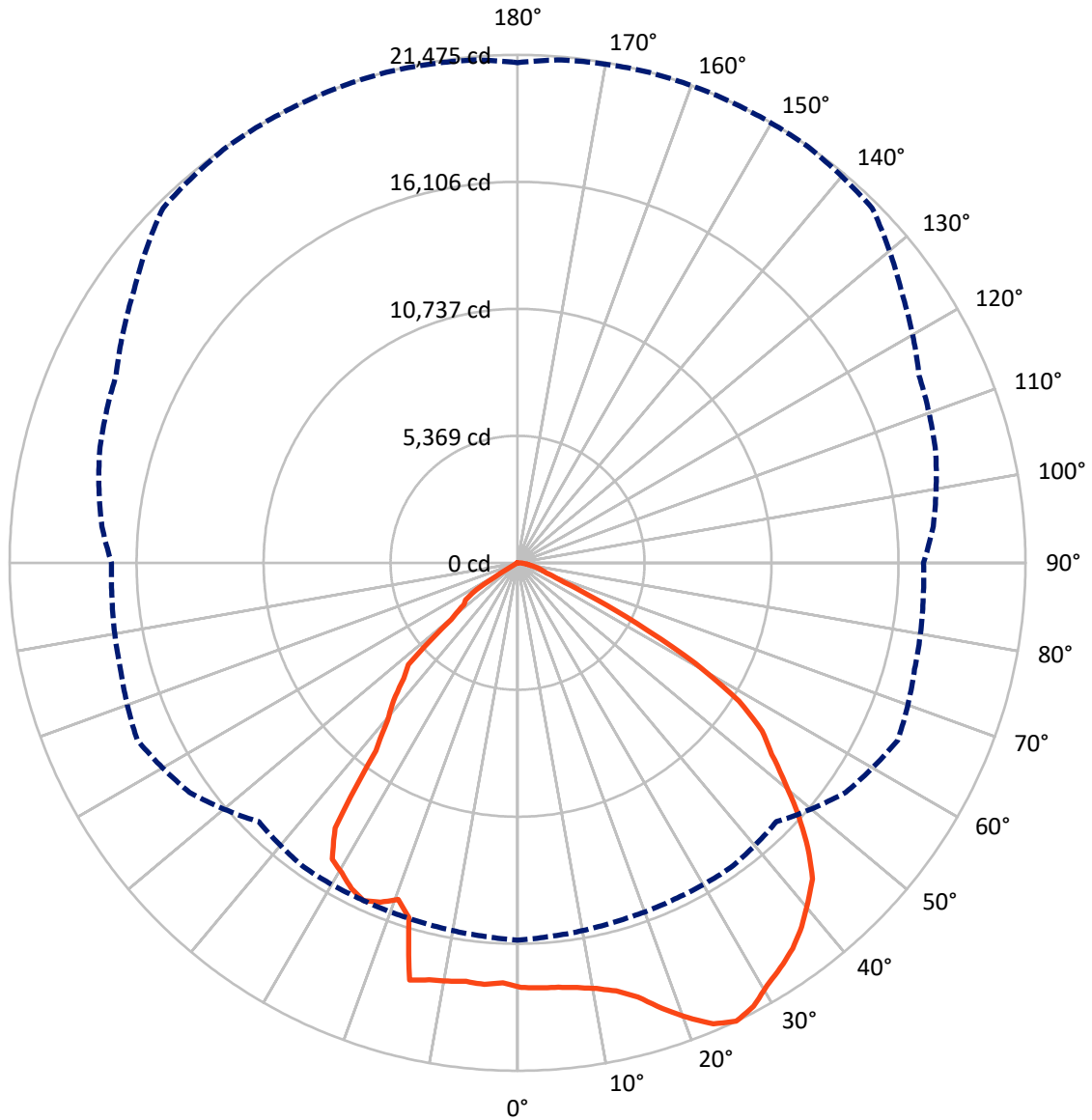
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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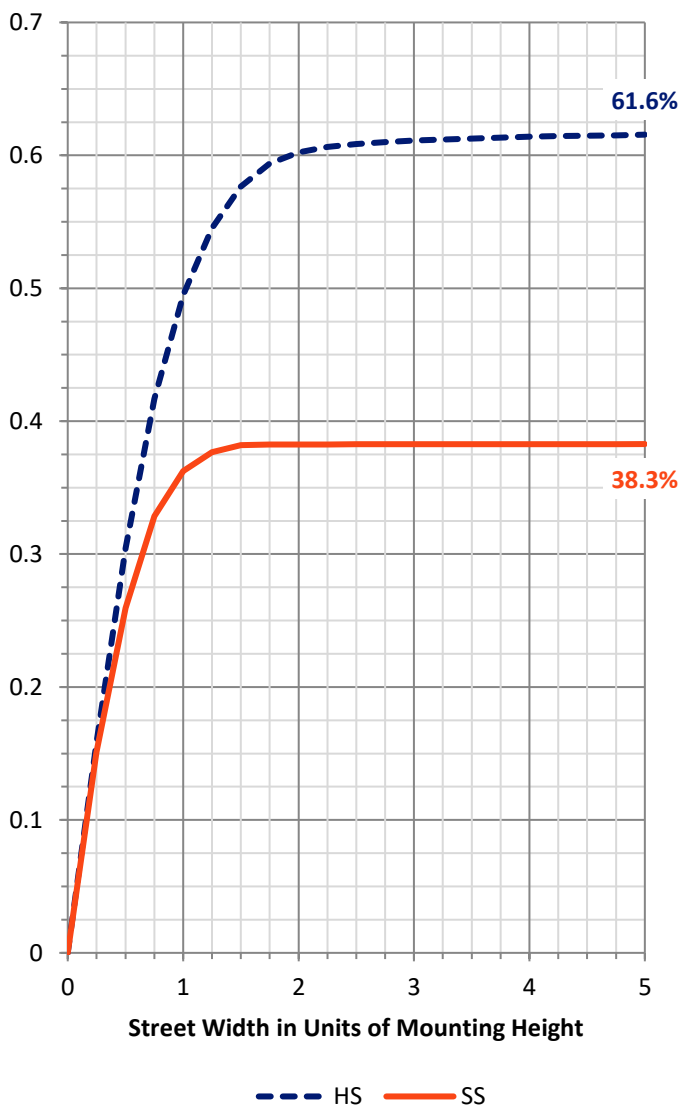
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25758.9	0.0	25758.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	15847.9	0.0	15847.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	41606.8	0.0	41606.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1722.3	4.1
10°-20°	5259.0	12.6
20°-30°	8314.2	20.0
30°-40°	9391.6	22.6
40°-50°	8795.4	21.1
50°-60°	6063.8	14.6
60°-70°	1629.1	3.9
70°-80°	339.5	0.8
80°-90°	91.8	0.2
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°	41606.8	100.0
0°-180°	41606.8	100.0

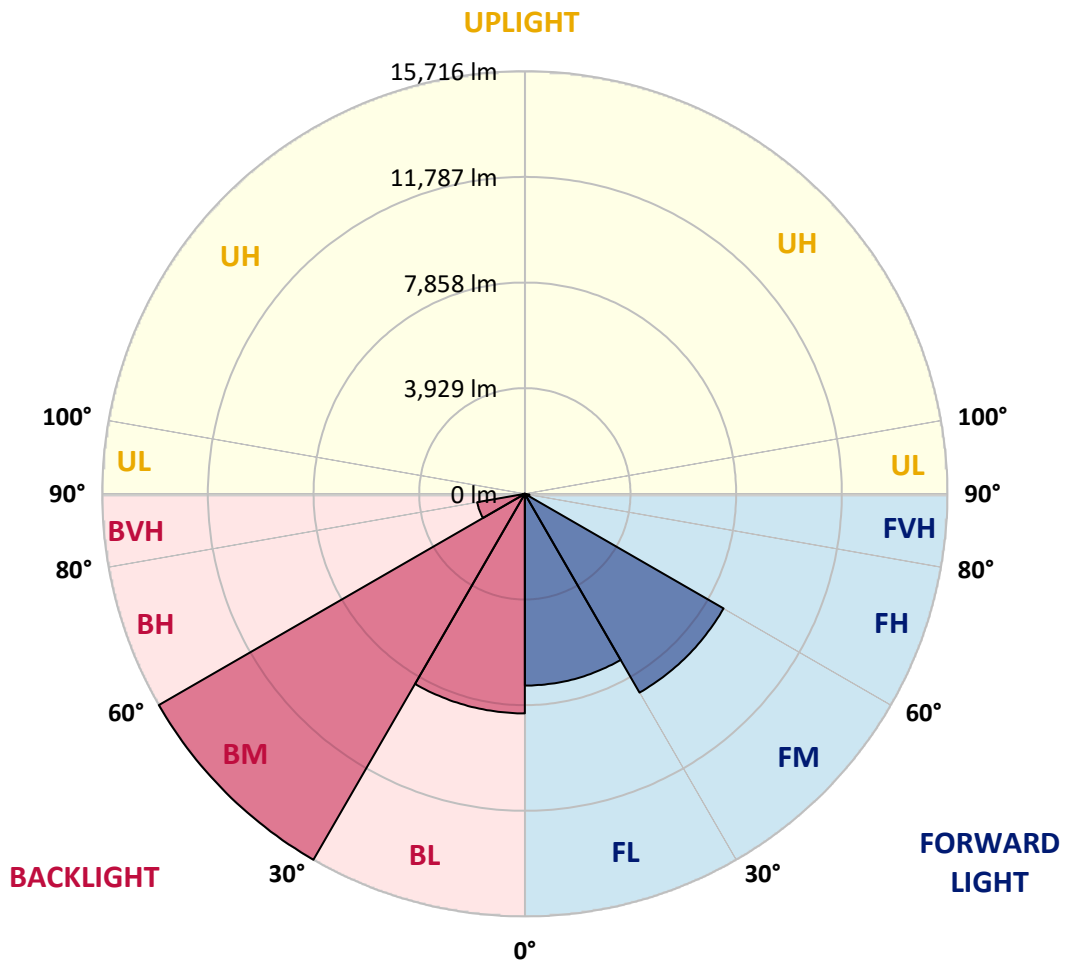


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7130.1	17.1			
FM (30°-60°)	8534.5	20.5			
FH (60°-80°)	171.0	0.4			G0/660
FVH (80°-90°)	12.3	0.0			G1/100
BL (0°-30°)	8165.4	19.6	B5		
BM (30°-60°)	15716.3	37.8	B5		
BH (60°-80°)	1797.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	79.5	0.2			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°	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6
2.5°	18032.1	17915.9	17805.8	17769.1	17922.0	18087.1	17983.2	17989.3	17952.6	18019.8
5°	18166.6	18007.6	17934.2	17879.2	17903.7	18074.9	17928.1	17983.2	17922.0	18001.5
7.5°	18117.7	18007.6	17934.2	17830.3	17909.8	18111.6	17970.9	17977.0	17946.5	18019.8
10°	18087.1	18007.6	17915.9	17928.1	18019.8	18191.1	18081.0	18142.1	18099.3	18142.1
12.5°	18160.5	18074.9	18026.0	18026.0	18105.4	18301.1	18246.1	18301.1	18282.8	18319.5
15°	17469.5	17549.0	18013.7	18221.6	18380.6	18576.3	18551.8	18606.8	18619.1	18674.1
17.5°	14736.3	14656.8	14620.1	15690.2	18533.5	19138.8	19120.5	19114.4	19053.2	19010.4
20°	15097.0	15066.5	15023.7	15103.2	15421.1	19432.3	19554.6	18802.5	18582.4	18564.0
22.5°	15671.8	15622.9	15463.9	15470.0	15567.9	16894.7	18949.3	18264.4	18191.1	18148.3
25°	15953.1	15855.3	15726.9	15690.2	15720.7	15476.2	16925.3	17738.6	17377.8	17212.7
27.5°	15457.8	15463.9	15360.0	15457.8	15341.6	14241.0	13623.4	16711.3	16699.1	16625.7
30°	15084.8	15066.5	14944.2	15066.5	14265.5	13036.4	12773.5	15586.2	15457.8	15360.0
32.5°	13941.4	13953.6	14308.3	14785.2	13470.6	12498.3	11703.4	13923.0	15139.8	15084.8
35°	9973.0	9997.4	11257.1	13611.2	12266.0	11428.3	11367.1	12033.6	14638.4	14662.9
37.5°	9600.0	9600.0	9569.4	9954.6	11318.2	10994.1	11116.4	11049.2	13409.4	13470.6
40°	9330.9	9275.9	9233.1	8627.8	7869.5	10688.4	10774.0	10468.3	12675.6	12687.9
42.5°	9006.9	8945.7	8957.9	7839.0	7044.1	9930.2	9691.7	9282.0	11452.7	11464.9
45°	8413.7	8517.7	8591.1	6860.6	6799.5	7093.0	8939.6	8682.8	10627.2	10853.5
47.5°	4280.2	4372.0	6707.8	6310.3	6450.9	6304.2	7551.6	7557.7	8841.8	9593.9
50°	3882.8	3858.3	3864.5	3681.0	5955.7	5099.6	5460.4	6927.9	7080.8	8156.9
52.5°	3619.9	3613.8	3240.8	2880.0	3742.2	4488.1	3962.3	5014.0	5264.7	6909.5
55°	2678.2	2873.9	2555.9	2708.8	2341.9	3595.4	3577.1	4524.8	4610.4	5539.9
57.5°	24.5	30.6	73.4	2060.6	1620.4	1797.7	2470.3	3087.9	3240.8	4316.9
60°	6.1	12.2	30.6	61.1	1051.7	1106.7	1651.0	1785.5	2011.7	2574.3
62.5°	0.0	0.0	12.2	30.6	55.0	452.5	525.9	574.8	886.6	1314.6
65°	0.0	0.0	6.1	18.3	30.6	73.4	128.4	269.0	385.2	476.9
67.5°	0.0	0.0	6.1	12.2	24.5	36.7	73.4	103.9	165.1	281.3
70°	0.0	0.0	6.1	12.2	18.3	30.6	48.9	73.4	97.8	140.6
72.5°	0.0	0.0	6.1	12.2	12.2	36.7	36.7	55.0	73.4	91.7
75°	0.0	0.0	6.1	6.1	12.2	24.5	36.7	42.8	48.9	73.4
77.5°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	48.9	42.8	42.8
80°	0.0	0.0	6.1	18.3	18.3	30.6	36.7	48.9	30.6	30.6
82.5°	0.0	0.0	6.1	24.5	18.3	61.1	61.1	67.3	24.5	24.5
85°	0.0	0.0	18.3	12.2	36.7	61.1	55.0	36.7	30.6	18.3
87.5°	0.0	0.0	6.1	6.1	12.2	18.3	42.8	36.7	12.2	12.2
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°
17952.6	0°	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6	17952.6
17842.5	2.5°	18087.1	18007.6	18172.7	18154.4	18074.9	18038.2	17995.4	17958.7	17689.7
17854.7	5°	18093.2	17970.9	18172.7	18136.0	18123.8	18062.6	18026.0	18081.0	17836.4
17903.7	7.5°	18093.2	17970.9	18191.1	18203.3	18184.9	18136.0	18129.9	18166.6	17964.8
17989.3	10°	18215.5	18166.6	18350.0	18368.4	18343.9	18331.7	18301.1	18276.7	18062.6
18282.8	12.5°	18472.3	18374.5	18582.4	18637.4	18619.1	18649.7	18576.3	18613.0	18392.8
18582.4	15°	18784.2	18790.3	18949.3	19071.6	19059.3	19157.2	19047.1	19144.9	18986.0
18924.8	17.5°	19261.1	19328.4	19554.6	19738.1	19805.3	19878.7	19805.3	19835.9	19609.6
18545.7	20°	18759.7	19010.4	20098.8	20435.1	20575.8	20643.0	20520.7	20557.4	20331.2
18081.0	22.5°	18307.2	18631.3	19597.4	20649.1	21083.3	21217.8	21175.0	21168.9	21083.3
17163.8	25°	17640.7	18295.0	18729.1	19842.0	21205.6	21450.2	21474.6	21468.5	21340.1
16601.2	27.5°	16821.4	16968.1	18093.2	18771.9	20349.5	21278.9	21242.3	21064.9	20893.7
15433.4	30°	15775.8	16442.3	16949.8	18032.1	19242.8	20753.1	20753.1	20618.6	20441.2
15017.6	32.5°	15243.8	16106.0	16576.8	16968.1	18001.5	20166.1	20410.7	20270.0	20129.4
14693.5	35°	14962.5	15090.9	16191.6	16546.2	17420.6	19034.9	20025.4	19884.8	19780.9
13831.3	37.5°	14344.9	14644.6	15158.2	16106.0	16375.0	18111.6	19511.8	19438.4	19316.1
12712.3	40°	12969.2	13770.2	14559.0	15457.8	15739.1	16925.3	18888.1	18918.7	18753.6
11520.0	42.5°	12155.9	12700.1	13935.3	14540.6	15298.8	16161.0	18282.8	18331.7	18215.5
10914.6	45°	11202.0	11807.4	12675.6	13776.3	14809.7	15109.3	17212.7	17726.3	17628.5
9710.0	47.5°	10327.6	10816.8	11880.7	12993.6	14137.0	14094.2	15983.7	16949.8	16815.3
8786.7	50°	9086.4	9942.4	10443.8	11464.9	13170.9	13287.1	14675.1	16038.7	15928.6
7466.0	52.5°	7661.6	8737.8	9697.8	10633.4	12192.6	12467.8	13458.3	15109.3	15035.9
5705.0	55°	6695.5	7478.2	8560.5	9312.6	11006.4	11740.1	12547.2	14222.7	14186.0
4689.9	57.5°	4763.3	6273.6	7166.4	8218.1	9110.8	10437.7	11036.9	12418.8	12076.4
2598.7	60°	3228.5	3937.8	5026.2	6157.4	6756.7	8083.6	8640.0	9746.7	9655.0
1553.1	62.5°	1706.0	2360.3	3136.8	3705.5	4139.6	5429.8	5662.2	6854.5	6823.9
623.7	65°	752.1	996.7	1699.9	1993.4	2439.7	3039.0	3240.8	3668.8	3564.8
305.7	67.5°	391.3	593.1	960.0	1180.1	1485.9	1712.1	1877.2	2011.7	2097.3
201.8	70°	238.5	434.1	593.1	819.4	1021.1	1204.6	1333.0	1516.4	1626.5
103.9	72.5°	177.3	275.2	409.7	629.8	739.9	953.9	1082.3	1216.8	1314.6
85.6	75°	97.8	183.4	330.2	495.3	593.1	776.6	892.7	984.5	1015.0
48.9	77.5°	61.1	140.6	275.2	385.2	464.7	629.8	599.2	684.8	758.2
36.7	80°	42.8	103.9	214.0	318.0	324.1	403.6	476.9	550.3	599.2
24.5	82.5°	30.6	85.6	159.0	244.6	214.0	311.8	373.0	428.0	311.8
18.3	85°	24.5	61.1	79.5	146.8	122.3	220.1	189.6	183.4	122.3
12.2	87.5°	18.3	30.6	55.0	67.3	48.9	48.9	61.1	73.4	61.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
17952.6  
17506.2  
17628.5  
17732.5  
17885.3  
18197.2  
18723.0  
19414.0  
20172.2  
20808.1  
*21144.4*  
20759.2  
20374.0  
20013.2  
19634.1  
19193.9  
18716.9  
18203.3  
17640.7  
16913.1  
15947.0  
15084.8  
14228.8  
12039.7  
9661.1  
6830.1  
3522.0  
2097.3  
1632.6  
1333.0  
996.7  
770.4  
605.3  
226.2  
122.3  
61.1  
0.0

(END OF REPORT)