

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: P638675

Luminaire Tested: **EPH-VN-07-E-730-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638675  
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-730-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48286.6 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

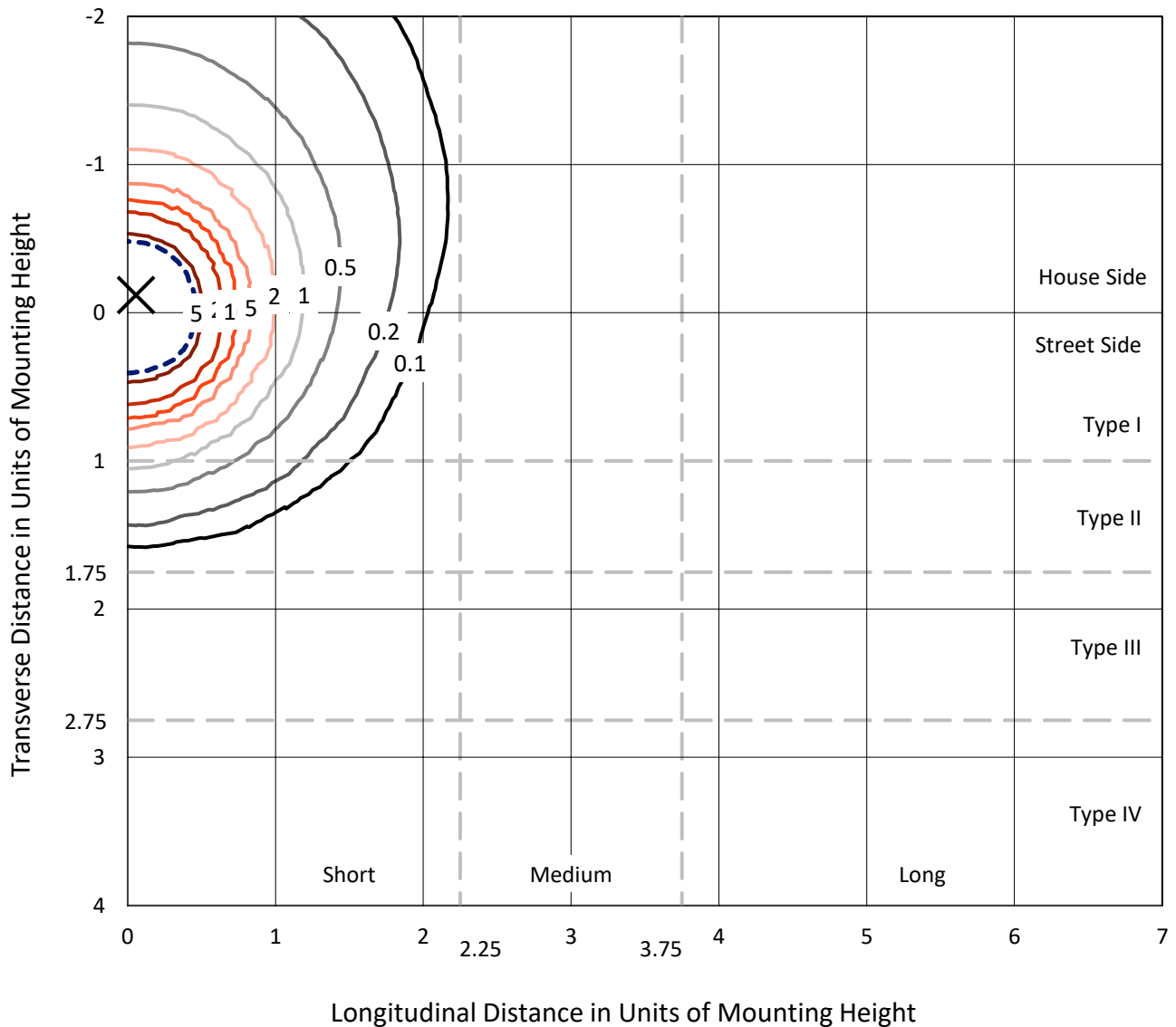
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

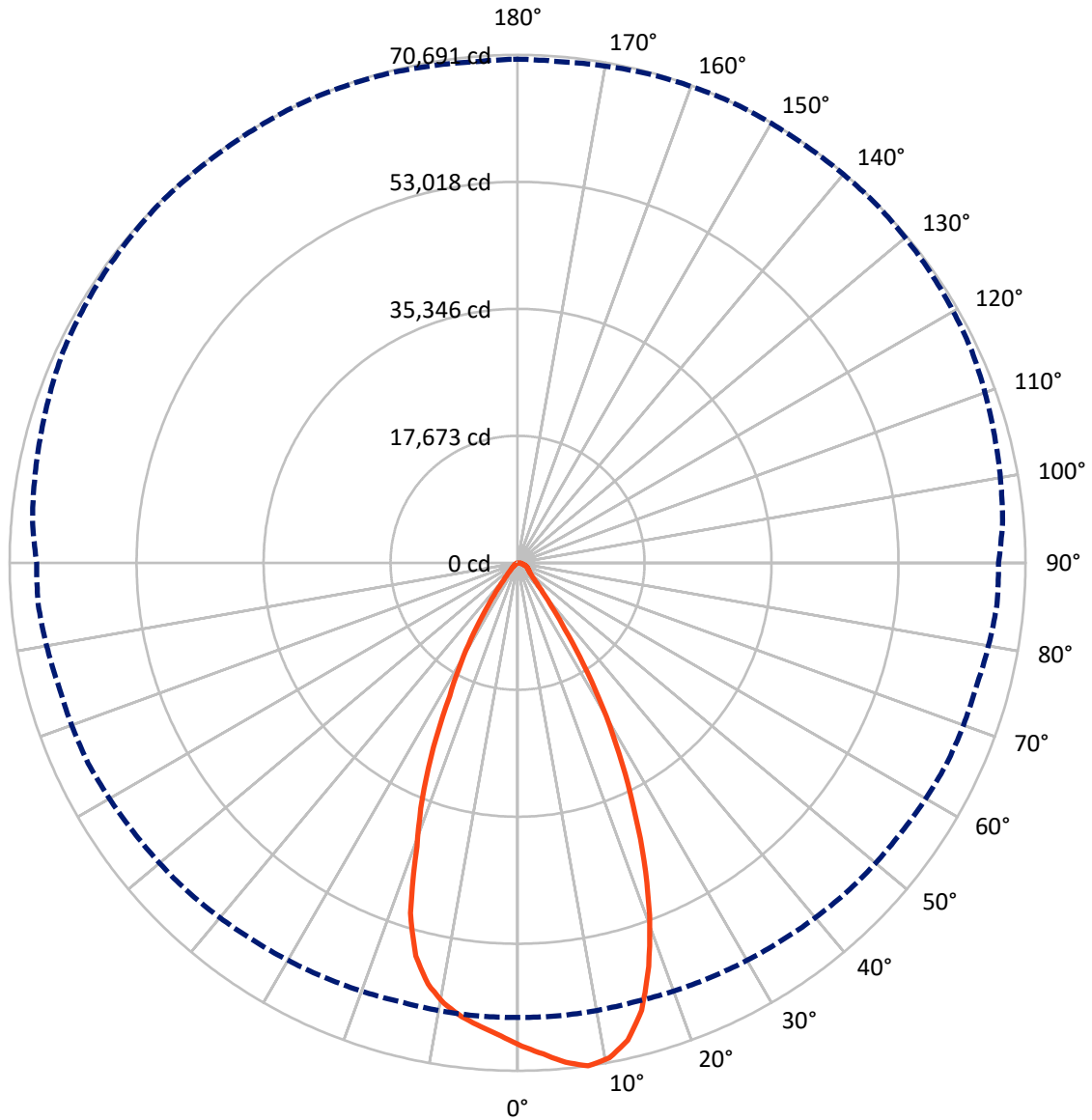
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 170.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical

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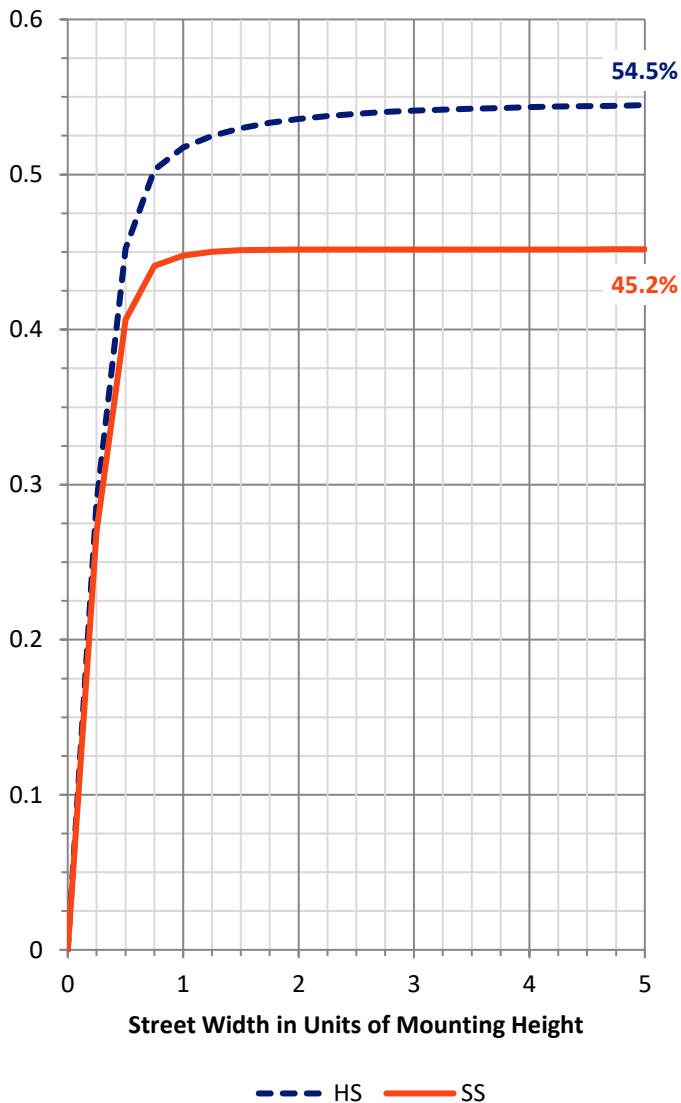
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26655.9	0.0	26655.9
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	21630.6	0.0	21630.6
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	48286.6	0.0	48286.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6414.3	13.3
10°-20°	16632.4	34.4
20°-30°	15239.9	31.6
30°-40°	6156.9	12.8
40°-50°	1806.2	3.7
50°-60°	1009.9	2.1
60°-70°	613.4	1.3
70°-80°	311.6	0.6
80°-90°	101.9	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°	48286.6	100.0
0°-180°	48286.6	100.0

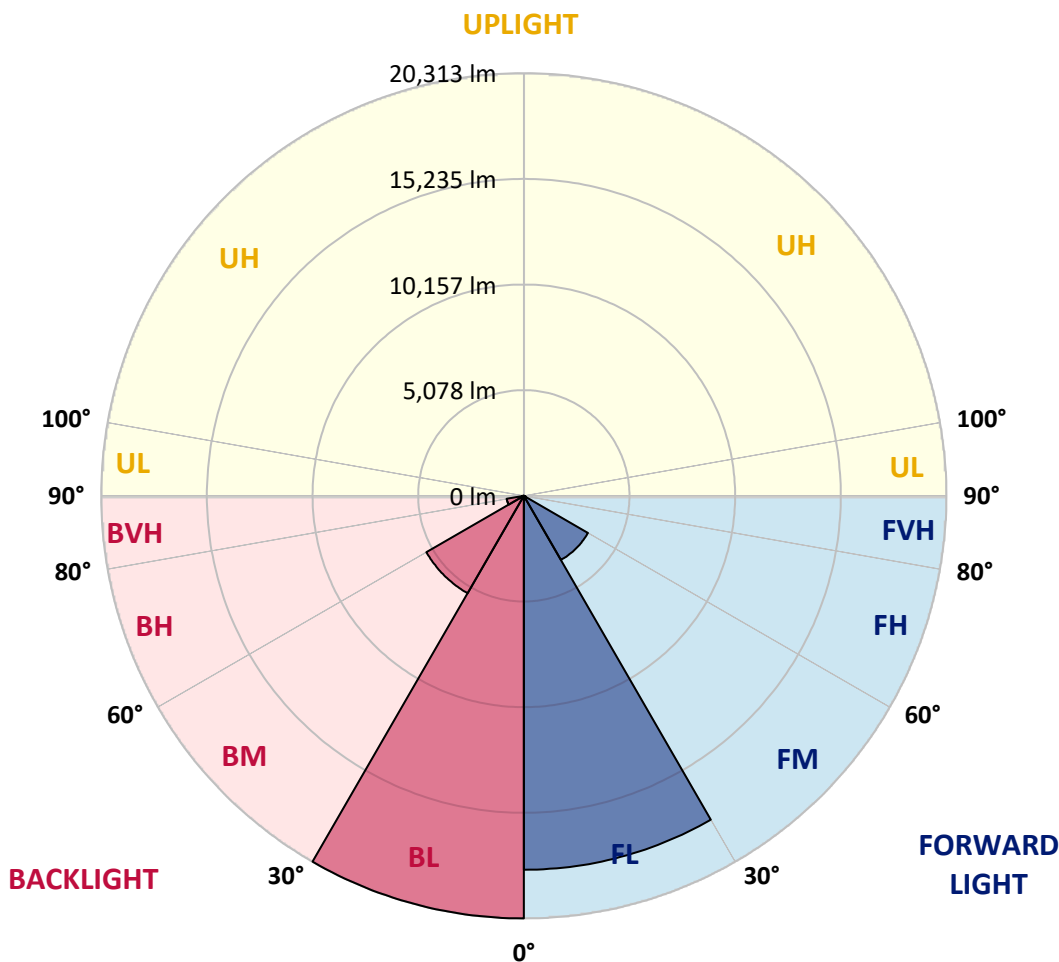


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17973.5	37.2			
FM (30°-60°)	3562.0	7.4			
FH (60°-80°)	86.3	0.2			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	20313.2	42.1	B5		
BM (30°-60°)	5410.9	11.2	B4/8500		
BH (60°-80°)	838.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	93.1	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-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9
2.5°	65808.1	66030.8	65585.4	65880.5	66108.8	66654.4	66699.0	66888.3	66955.1	67450.6
5°	64560.9	64733.5	64371.5	64766.9	65089.8	65574.2	65947.3	66470.7	66760.2	67344.9
7.5°	63263.5	63302.5	63230.1	63647.7	64132.1	64800.3	65262.4	65947.3	66125.5	66960.7
10°	61693.3	61409.4	61548.6	62161.1	62884.9	63909.4	64226.8	64911.6	65229.0	66080.9
12.5°	59187.7	59332.5	59159.9	59939.4	60540.8	61704.5	62038.6	62729.0	63335.9	64087.6
15°	55657.6	55574.1	55924.9	56531.8	57183.3	58107.6	58647.7	59399.3	59861.5	60641.0
17.5°	47723.3	48007.2	49454.9	50975.0	52311.3	53391.5	54037.4	54661.0	54995.1	55841.4
20°	41214.3	40857.9	41052.8	41910.3	45713.2	47366.9	48046.2	48196.5	48335.7	49003.9
22.5°	33936.9	33820.0	34471.4	35434.7	36336.7	40150.8	41075.1	40724.3	41013.8	41643.0
25°	25200.7	25790.9	26370.0	28218.6	29387.9	31258.7	33012.6	33168.5	33274.3	33669.6
27.5°	20512.5	20306.5	20295.3	20813.2	22539.2	24098.3	25590.5	25935.7	25874.5	26253.1
30°	16124.9	16058.1	15824.2	15946.7	15774.1	17160.5	17862.1	19282.0	19204.0	19215.1
32.5°	11631.5	11381.0	11286.3	11470.1	11291.9	11163.8	11776.3	13379.9	13352.0	13463.4
35°	7037.9	7004.5	7082.5	7244.0	6887.6	6876.5	7004.5	8513.5	8697.2	8875.4
37.5°	3886.5	3853.1	3914.3	4510.1	4393.1	4287.4	4320.8	5117.0	5645.9	5779.6
40°	2561.3	2555.7	2600.3	2706.0	2906.5	2867.5	2884.2	3240.6	3741.7	3858.6
42.5°	1714.9	1720.5	1748.3	1870.8	1898.7	2099.1	2065.7	2149.2	2617.0	2717.2
45°	1369.7	1364.2	1380.9	1325.2	1358.6	1564.6	1586.9	1592.4	1993.3	2054.6
47.5°	1080.2	1080.2	1096.9	1024.5	1007.8	1135.9	1252.8	1269.5	1592.4	1676.0
50°	757.2	757.2	840.8	807.4	846.3	885.3	1013.4	1030.1	1302.9	1392.0
52.5°	556.8	567.9	579.1	584.6	712.7	707.1	818.5	896.4	985.5	1141.4
55°	423.2	434.3	406.5	434.3	529.0	590.2	612.5	723.8	785.1	957.7
57.5°	278.4	306.2	284.0	334.1	356.4	456.6	490.0	595.8	634.8	785.1
60°	39.0	44.5	72.4	233.9	250.6	300.7	378.6	473.3	512.3	640.3
62.5°	5.6	5.6	16.7	39.0	167.0	200.4	284.0	328.5	378.6	478.8
65°	0.0	0.0	5.6	11.1	33.4	116.9	144.8	178.2	261.7	345.2
67.5°	0.0	0.0	5.6	11.1	16.7	39.0	61.2	116.9	150.3	239.4
70°	0.0	0.0	5.6	11.1	16.7	22.3	33.4	44.5	89.1	139.2
72.5°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	33.4	39.0	89.1
75°	0.0	0.0	5.6	11.1	16.7	27.8	33.4	33.4	33.4	39.0
77.5°	0.0	0.0	5.6	11.1	22.3	33.4	39.0	33.4	27.8	27.8
80°	0.0	0.0	5.6	16.7	27.8	39.0	44.5	33.4	22.3	16.7
82.5°	0.0	0.0	5.6	16.7	27.8	39.0	44.5	39.0	22.3	16.7
85°	0.0	0.0	5.6	16.7	22.3	27.8	44.5	39.0	22.3	11.1
87.5°	0.0	0.0	0.0	5.6	5.6	11.1	22.3	16.7	11.1	5.6
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°
67266.9	0°	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9	67266.9
67439.5	2.5°	67940.6	68191.2	68631.1	68753.6	69132.2	68697.9	68458.5	68480.7	67962.9
67272.5	5°	67940.6	68514.1	69282.5	69650.0	69928.4	69906.1	69844.9	69689.0	69310.4
66938.4	7.5°	67762.5	68697.9	69755.8	70245.8	70579.9	70552.0	70691.2	70440.7	69978.5
66342.6	10°	67189.0	68001.9	69304.8	69705.7	70245.8	70256.9	70084.3	70134.4	69310.4
64165.5	12.5°	65384.9	66019.7	67161.1	67617.7	68274.7	68380.5	68191.2	68118.8	67339.3
60596.5	15°	61893.8	62261.3	63408.3	63864.9	64516.3	64427.2	64616.5	64538.6	63853.7
55774.6	17.5°	56787.9	56904.9	58107.6	58491.8	59104.2	59343.7	59059.7	59421.6	58831.4
49120.8	20°	49466.0	50095.2	51448.2	52038.4	52394.8	52823.5	52450.5	52856.9	52166.5
41047.2	22.5°	42038.3	42411.4	43636.3	44488.3	45150.8	45234.4	45095.2	45379.1	44449.3
33931.3	25°	33925.8	34543.8	35512.6	36626.2	37277.7	37678.6	37316.7	37500.4	37350.1
26314.3	27.5°	26759.8	27311.0	28040.4	28870.0	29850.0	30373.4	30083.9	30395.7	29660.7
19621.6	30°	19638.3	19916.7	20740.8	21620.5	22695.1	23329.9	23357.7	23675.1	23240.8
13747.4	32.5°	13847.6	14092.6	14599.3	15183.9	16208.4	16915.6	16804.2	16848.7	16581.5
8958.9	35°	9003.4	9332.0	9693.9	9972.3	10590.3	11369.8	11308.6	11252.9	11069.2
5890.9	37.5°	6019.0	6147.1	6347.5	6598.1	6999.0	7488.9	7650.4	7450.0	7372.0
3975.5	40°	4070.2	4292.9	4426.6	4615.9	4805.2	5217.2	5328.6	5289.6	5211.6
2784.0	42.5°	2889.8	3062.4	3229.4	3413.2	3513.4	3769.5	3986.7	3925.4	3892.0
2115.8	45°	2193.8	2349.7	2544.6	2683.8	2784.0	2934.3	3140.3	3162.6	3112.5
1698.2	47.5°	1759.5	1898.7	2054.6	2227.2	2344.1	2438.8	2617.0	2683.8	2650.4
1431.0	50°	1492.2	1598.0	1748.3	1921.0	2049.0	2132.5	2288.4	2360.8	2338.6
1197.1	52.5°	1269.5	1397.6	1536.8	1681.5	1837.4	1921.0	2065.7	2171.5	2154.8
991.1	55°	1052.4	1219.4	1364.2	1508.9	1687.1	1770.6	1898.7	2037.9	2010.0
840.8	57.5°	918.7	1057.9	1208.3	1347.5	1536.8	1648.1	1765.1	1909.8	1904.3
690.4	60°	768.4	907.6	1074.6	1191.6	1392.0	1547.9	1653.7	1804.0	1815.2
523.4	62.5°	612.5	785.1	913.2	1074.6	1258.4	1442.1	1542.3	1692.7	1748.3
400.9	65°	456.6	645.9	790.7	952.1	1124.7	1330.7	1419.8	1570.2	1625.9
289.5	67.5°	339.6	484.4	668.2	807.4	1002.2	1180.4	1286.2	1425.4	1464.4
172.6	70°	256.1	373.1	556.8	679.3	879.7	1024.5	1130.3	1236.1	1286.2
116.9	72.5°	150.3	278.4	439.9	584.6	757.2	879.7	957.7	1041.2	1074.6
55.7	75°	105.8	211.6	345.2	484.4	612.5	712.7	785.1	857.5	890.9
27.8	77.5°	55.7	155.9	272.8	389.8	478.8	562.4	634.8	690.4	712.7
22.3	80°	33.4	111.4	222.7	306.2	367.5	439.9	512.3	551.2	545.7
16.7	82.5°	22.3	89.1	161.5	222.7	267.3	322.9	373.1	400.9	400.9
11.1	85°	16.7	61.2	111.4	172.6	178.2	222.7	233.9	261.7	267.3
11.1	87.5°	11.1	39.0	61.2	100.2	94.7	116.9	122.5	139.2	150.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
67266.9  
67545.3  
69432.9  
70084.3  
69070.9  
67161.1  
64070.9  
58686.6  
52110.8  
44321.2  
37255.4  
29850.0  
23318.7  
16731.8  
10907.7  
7355.3  
5222.8  
3864.2  
3106.9  
2633.7  
2333.0  
2143.7  
2010.0  
1898.7  
1815.2  
1742.8  
1620.3  
1464.4  
1275.1  
1063.5  
879.7  
707.1  
540.1  
395.3  
261.7  
144.8  
0.0

(END OF REPORT)