

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: P638837

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

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638837  
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-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37887.1 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

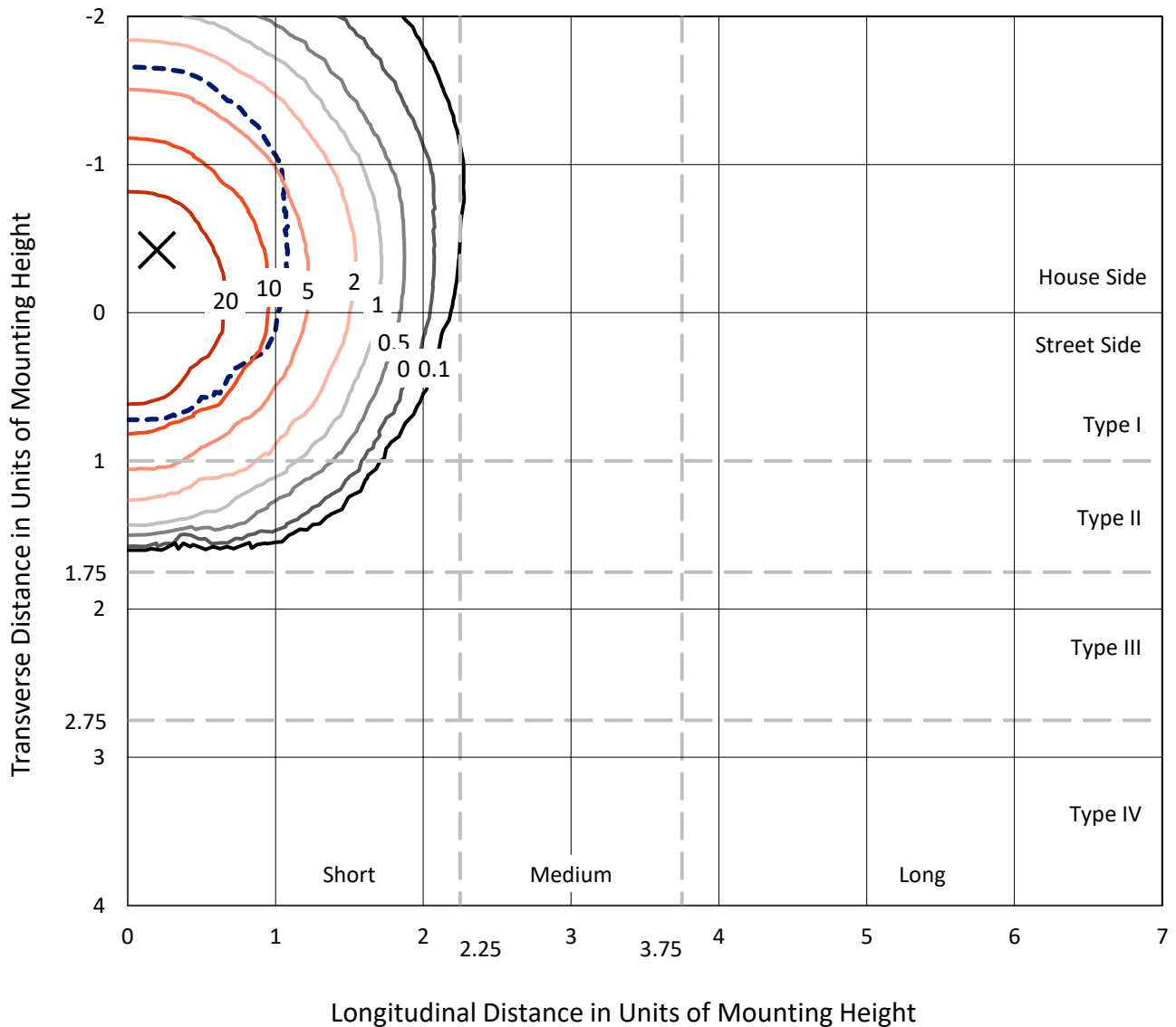
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

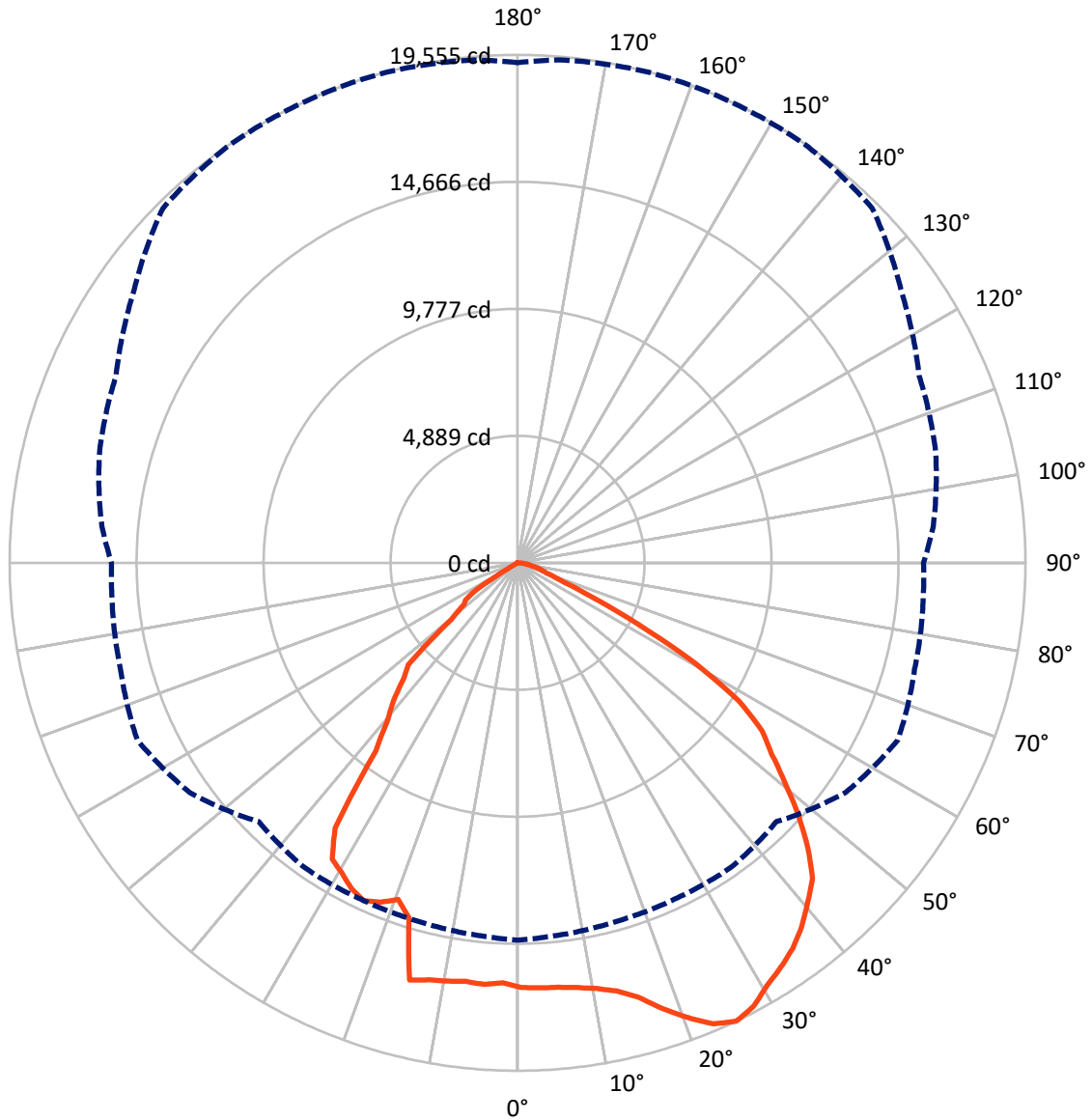
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.9 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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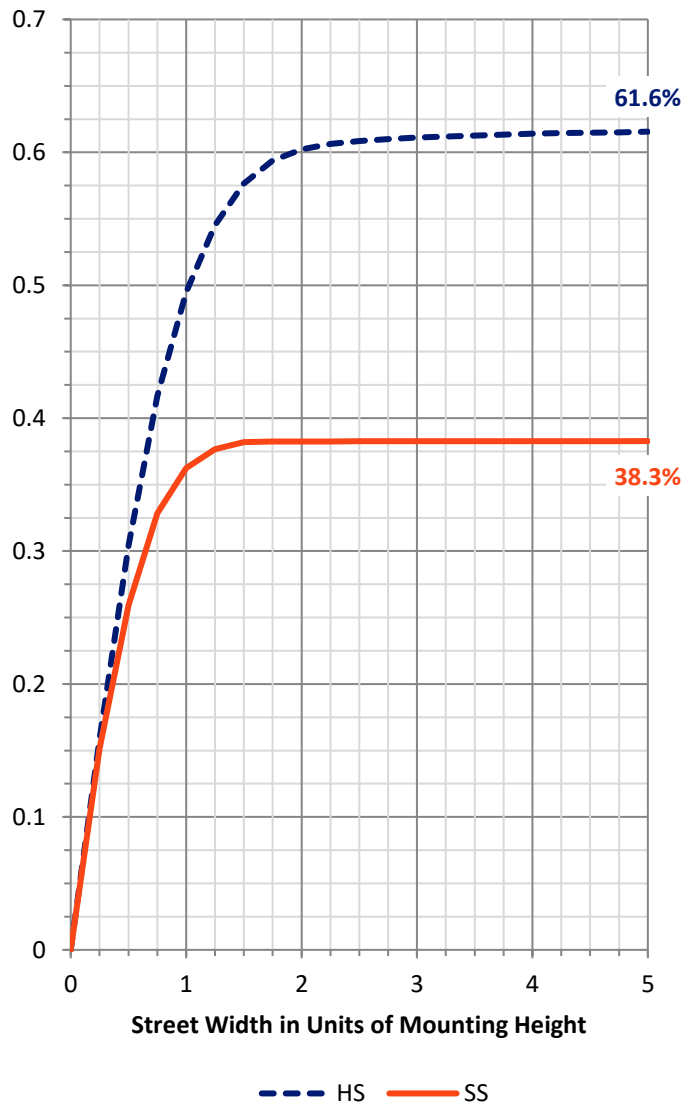
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23456.0	0.0	23456.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	14431.1	0.0	14431.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	37887.1	0.0	37887.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1568.3	4.1
10°-20°	4788.8	12.6
20°-30°	7570.9	20.0
30°-40°	8552.0	22.6
40°-50°	8009.1	21.1
50°-60°	5521.7	14.6
60°-70°	1483.5	3.9
70°-80°	309.2	0.8
80°-90°	83.6	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°	37887.1	100.0
0°-180°	37887.1	100.0



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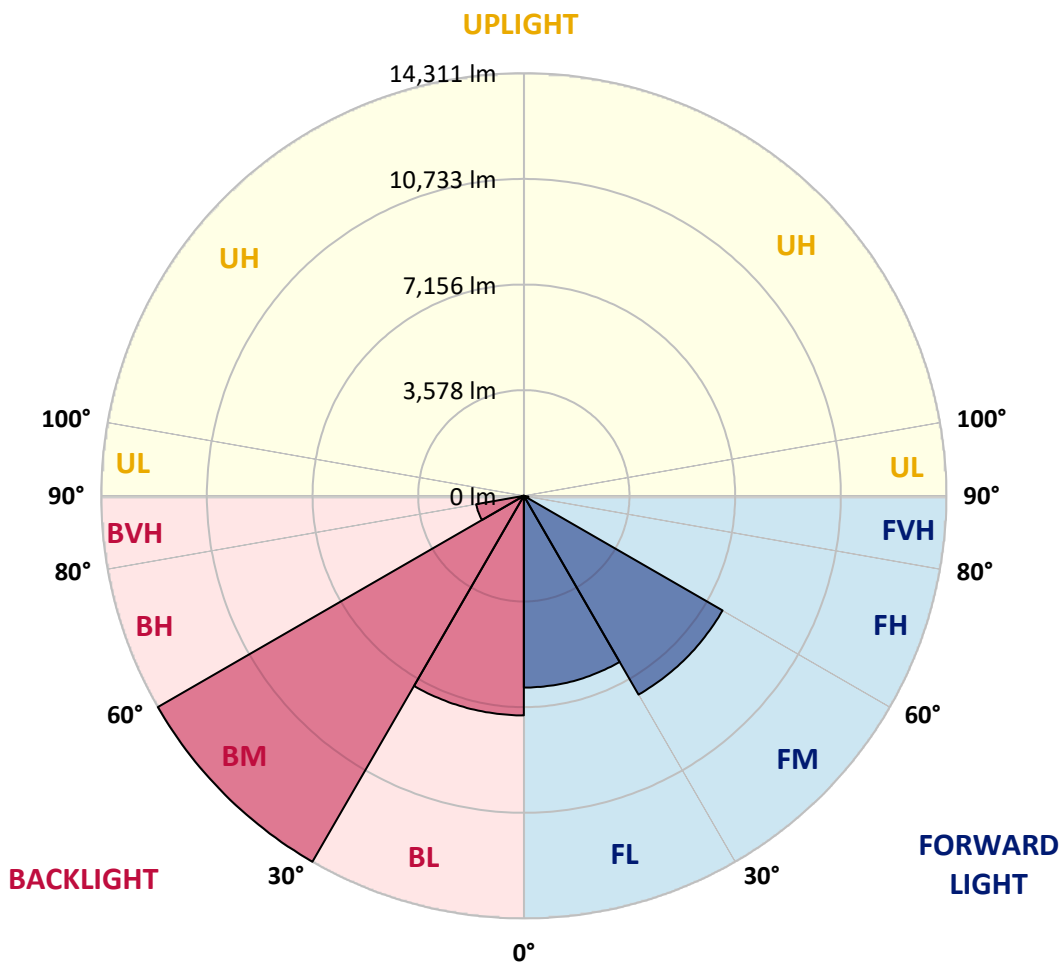
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6492.6	17.1			
FM (30°-60°)	7771.5	20.5			
FH (60°-80°)	155.7	0.4			G0/660
FVH (80°-90°)	11.2	0.0			G1/100
BL (0°-30°)	7435.4	19.6	B5		
BM (30°-60°)	14311.3	37.8	B5		
BH (60°-80°)	1636.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	72.4	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°	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6
2.5°	16420.0	16314.2	16214.0	16180.6	16319.8	16470.1	16375.5	16381.0	16347.6	16408.9
5°	16542.5	16397.7	16330.9	16280.8	16303.1	16459.0	16325.3	16375.5	16319.8	16392.2
7.5°	16498.0	16397.7	16330.9	16236.3	16308.6	16492.4	16364.3	16369.9	16342.1	16408.9
10°	16470.1	16397.7	16314.2	16325.3	16408.9	16564.8	16464.5	16520.2	16481.3	16520.2
12.5°	16536.9	16459.0	16414.4	16414.4	16486.8	16665.0	16614.9	16665.0	16648.3	16681.7
15°	15907.8	15980.1	16403.3	16592.6	16737.4	16915.6	16893.3	16943.4	16954.5	17004.6
17.5°	13418.9	13346.5	13313.1	14287.5	16876.6	17427.8	17411.1	17405.5	17349.9	17310.9
20°	13747.4	13719.5	13680.6	13752.9	14042.5	17695.1	17806.4	17121.6	16921.1	16904.4
22.5°	14270.8	14226.2	14081.4	14087.0	14176.1	15384.4	17255.2	16631.6	16564.8	16525.8
25°	14526.9	14437.8	14320.9	14287.5	14315.3	14092.6	15412.2	16152.7	15824.2	15673.9
27.5°	14075.9	14081.4	13986.8	14075.9	13970.1	12967.9	12405.5	15217.3	15206.2	15139.4
30°	13736.2	13719.5	13608.2	13719.5	12990.1	11871.0	11631.5	14192.8	14075.9	13986.8
32.5°	12695.0	12706.2	13029.1	13463.4	12266.3	11381.0	10657.1	12678.3	13786.3	13736.2
35°	9081.4	9103.7	10250.7	12394.3	11169.4	10406.6	10350.9	10957.8	13329.8	13352.0
37.5°	8741.7	8741.7	8713.9	9064.7	10306.4	10011.2	10122.6	10061.4	12210.6	12266.3
40°	8496.8	8446.6	8407.7	7856.4	7166.0	9732.8	9810.8	9532.4	11542.4	11553.6
42.5°	8201.7	8146.0	8157.1	7138.2	6414.3	9042.4	8825.3	8452.2	10428.8	10440.0
45°	7661.6	7756.2	7823.0	6247.3	6191.6	6458.9	8140.4	7906.5	9677.2	9883.2
47.5°	3897.6	3981.1	6108.1	5746.2	5874.2	5740.6	6876.5	6882.0	8051.3	8736.2
50°	3535.7	3513.4	3519.0	3351.9	5423.2	4643.7	4972.2	6308.5	6447.7	7427.7
52.5°	3296.3	3290.7	2951.0	2622.5	3407.6	4086.9	3608.1	4565.8	4794.0	6291.8
55°	2438.8	2617.0	2327.4	2466.6	2132.5	3274.0	3257.3	4120.3	4198.3	5044.6
57.5°	22.3	27.8	66.8	1876.4	1475.5	1637.0	2249.5	2811.8	2951.0	3931.0
60°	5.6	11.1	27.8	55.7	957.7	1007.8	1503.4	1625.9	1831.9	2344.1
62.5°	0.0	0.0	11.1	27.8	50.1	412.0	478.8	523.4	807.4	1197.1
65°	0.0	0.0	5.6	16.7	27.8	66.8	116.9	245.0	350.8	434.3
67.5°	0.0	0.0	5.6	11.1	22.3	33.4	66.8	94.7	150.3	256.1
70°	0.0	0.0	5.6	11.1	16.7	27.8	44.5	66.8	89.1	128.1
72.5°	0.0	0.0	5.6	11.1	11.1	33.4	33.4	50.1	66.8	83.5
75°	0.0	0.0	5.6	5.6	11.1	22.3	33.4	39.0	44.5	66.8
77.5°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	44.5	39.0	39.0
80°	0.0	0.0	5.6	16.7	16.7	27.8	33.4	44.5	27.8	27.8
82.5°	0.0	0.0	5.6	22.3	16.7	55.7	55.7	61.2	22.3	22.3
85°	0.0	0.0	16.7	11.1	33.4	55.7	50.1	33.4	27.8	16.7
87.5°	0.0	0.0	5.6	5.6	11.1	16.7	39.0	33.4	11.1	11.1
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°
16347.6	0°	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6	16347.6
16247.4	2.5°	16470.1	16397.7	16548.1	16531.4	16459.0	16425.6	16386.6	16353.2	16108.2
16258.5	5°	16475.7	16364.3	16548.1	16514.7	16503.5	16447.8	16414.4	16464.5	16241.8
16303.1	7.5°	16475.7	16364.3	16564.8	16575.9	16559.2	16514.7	16509.1	16542.5	16358.8
16381.0	10°	16587.0	16542.5	16709.5	16726.2	16704.0	16692.8	16665.0	16642.7	16447.8
16648.3	12.5°	16820.9	16731.8	16921.1	16971.2	16954.5	16982.4	16915.6	16949.0	16748.5
16921.1	15°	17104.9	17110.4	17255.2	17366.6	17355.4	17444.5	17344.3	17433.4	17288.6
17232.9	17.5°	17539.2	17600.4	17806.4	17973.5	18034.7	18101.5	18034.7	18062.6	17856.5
16887.7	20°	17082.6	17310.9	18302.0	18608.2	18736.3	18797.5	18686.2	18719.6	18513.6
16464.5	22.5°	16670.6	16965.7	17845.4	18803.1	19198.4	19320.9	19282.0	19276.4	19198.4
15629.4	25°	16063.7	16659.4	17054.8	18068.1	19309.8	19532.5	19554.8	19549.2	19432.3
15117.1	27.5°	15317.5	15451.2	16475.7	17093.7	18530.3	19376.6	19343.2	19181.7	19025.8
14053.6	30°	14365.4	14972.3	15434.5	16420.0	17522.5	18897.8	18897.8	18775.3	18613.8
13675.0	32.5°	13881.0	14666.1	15094.8	15451.2	16392.2	18363.2	18586.0	18457.9	18329.8
13379.9	35°	13624.9	13741.8	14744.0	15067.0	15863.2	17333.2	18235.2	18107.1	18012.5
12594.8	37.5°	13062.5	13335.3	13803.0	14666.1	14911.1	16492.4	17767.5	17700.6	17589.3
11575.9	40°	11809.7	12539.1	13257.4	14075.9	14332.0	15412.2	17199.5	17227.4	17077.0
10490.1	42.5°	11069.2	11564.7	12689.5	13240.7	13931.1	14716.2	16648.3	16692.8	16587.0
9938.9	45°	10200.6	10751.8	11542.4	12544.7	13485.7	13758.5	15673.9	16141.6	16052.5
8842.0	47.5°	9404.3	9849.8	10818.6	11832.0	12873.2	12834.2	14554.7	15434.5	15312.0
8001.2	50°	8274.0	9053.6	9510.1	10440.0	11993.5	12099.2	13363.2	14604.8	14504.6
6798.5	52.5°	6976.7	7956.7	8830.8	9682.7	11102.6	11353.1	12255.1	13758.5	13691.7
5194.9	55°	6097.0	6809.7	7795.2	8480.1	10022.4	10690.5	11425.5	12951.1	12917.7
4270.6	57.5°	4337.5	5712.8	6525.7	7483.4	8296.3	9504.6	10050.2	11308.6	10996.8
2366.4	60°	2939.9	3585.8	4576.9	5607.0	6152.6	7360.9	7867.6	8875.4	8791.9
1414.3	62.5°	1553.5	2149.2	2856.4	3374.2	3769.5	4944.4	5156.0	6241.7	6213.9
567.9	65°	684.9	907.6	1547.9	1815.2	2221.6	2767.3	2951.0	3340.8	3246.1
278.4	67.5°	356.4	540.1	874.2	1074.6	1353.0	1559.0	1709.4	1831.9	1909.8
183.7	70°	217.2	395.3	540.1	746.1	929.9	1096.9	1213.8	1380.9	1481.1
94.7	72.5°	161.5	250.6	373.1	573.5	673.7	868.6	985.5	1108.0	1197.1
78.0	75°	89.1	167.0	300.7	451.0	540.1	707.1	812.9	896.4	924.3
44.5	77.5°	55.7	128.1	250.6	350.8	423.2	573.5	545.7	623.6	690.4
33.4	80°	39.0	94.7	194.9	289.5	295.1	367.5	434.3	501.1	545.7
22.3	82.5°	27.8	78.0	144.8	222.7	194.9	284.0	339.6	389.8	284.0
16.7	85°	22.3	55.7	72.4	133.6	111.4	200.4	172.6	167.0	111.4
11.1	87.5°	16.7	27.8	50.1	61.2	44.5	44.5	55.7	66.8	55.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16347.6  
15941.2  
16052.5  
16147.2  
16286.4  
16570.3  
17049.2  
17678.4  
18368.8  
18947.9  
*19254.1*  
18903.3  
18552.5  
18224.0  
17878.8  
17477.9  
17043.6  
16575.9  
16063.7  
15401.1  
14521.3  
13736.2  
12956.7  
10963.4  
8797.4  
6219.4  
3207.2  
1909.8  
1486.7  
1213.8  
907.6  
701.6  
551.2  
206.0  
111.4  
55.7  
0.0

(END OF REPORT)