

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: P638857

Luminaire Tested: **EPH-VN-08-E-750-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638857  
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-750-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51617.2 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

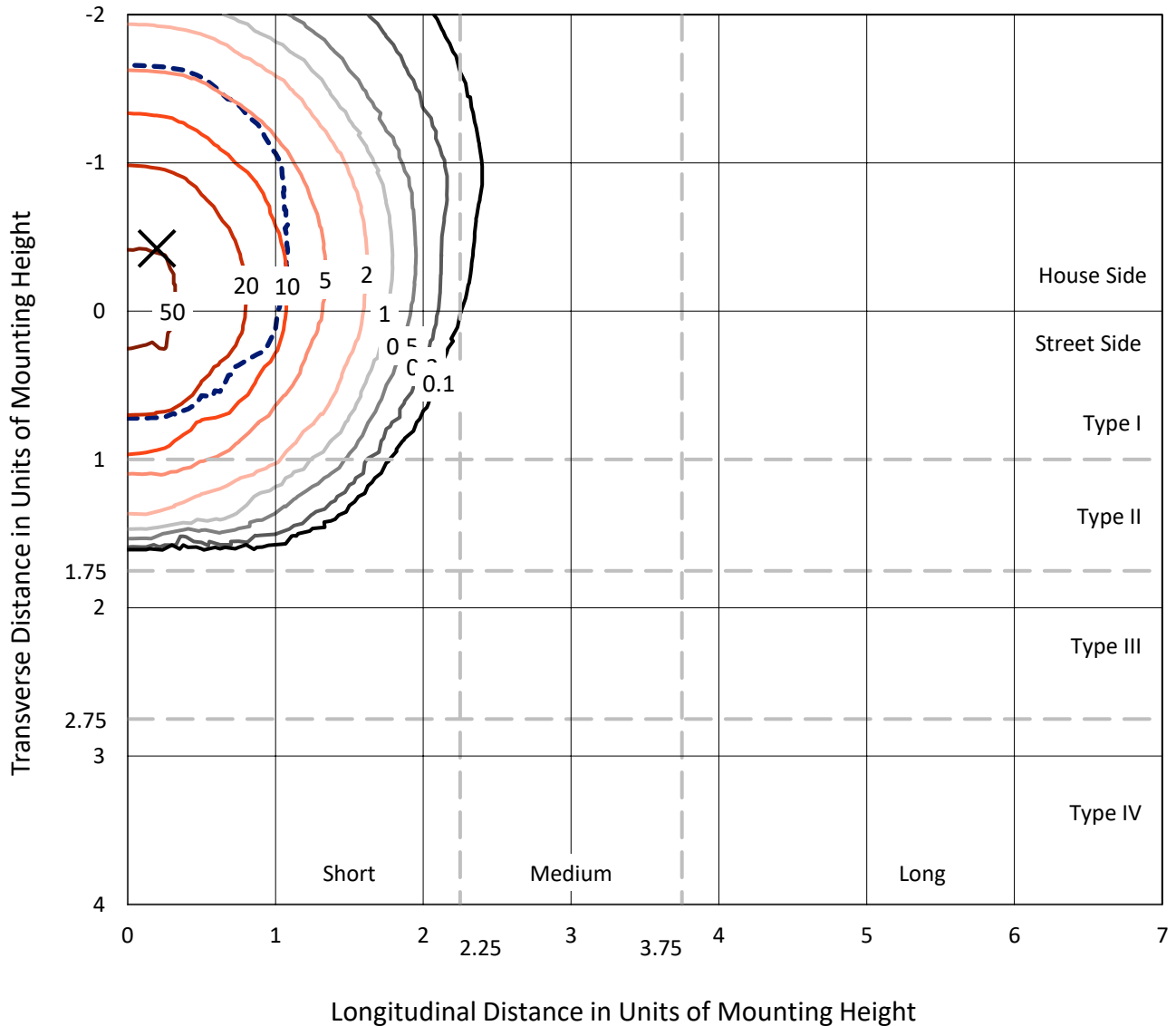
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

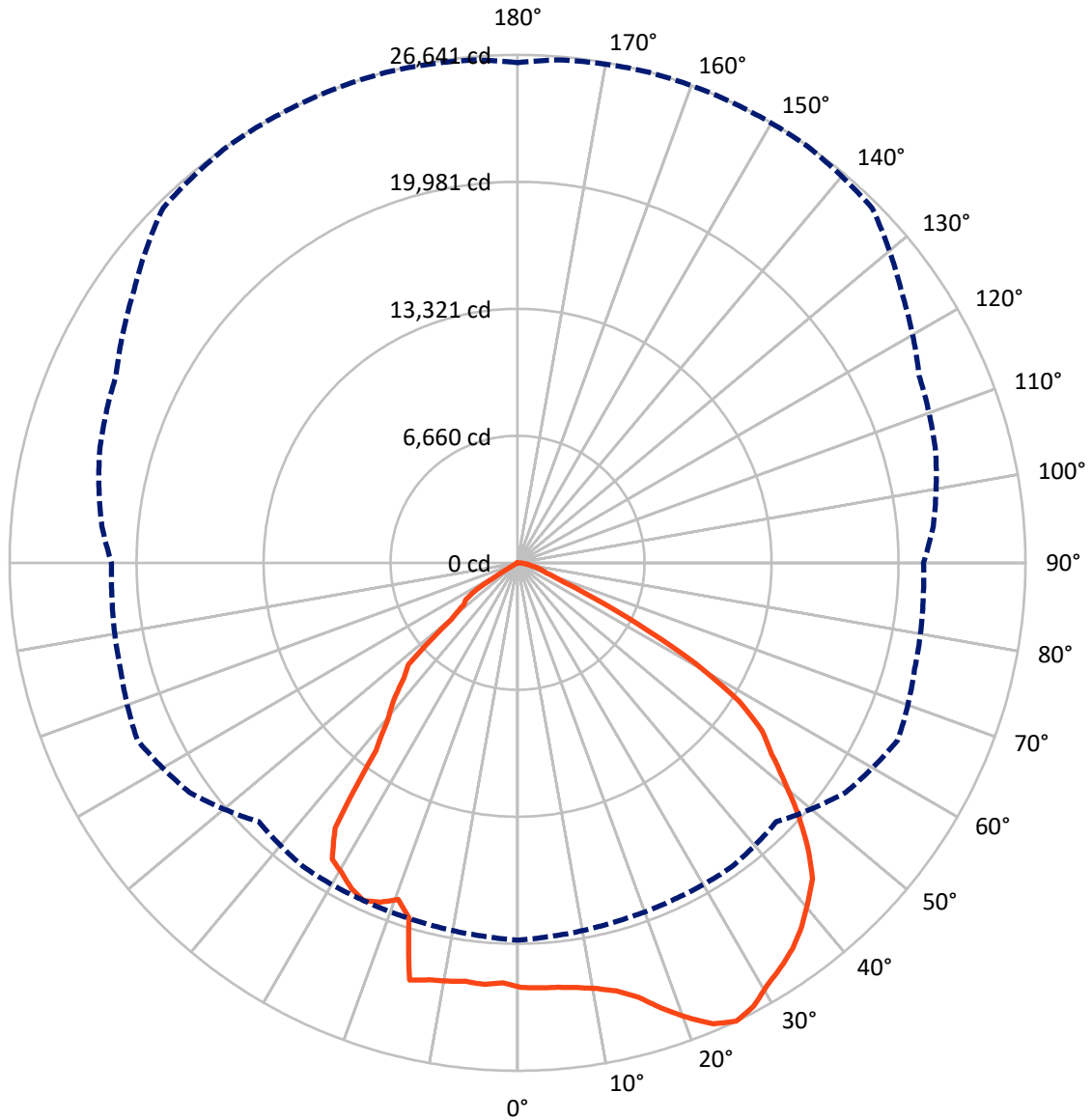
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.7 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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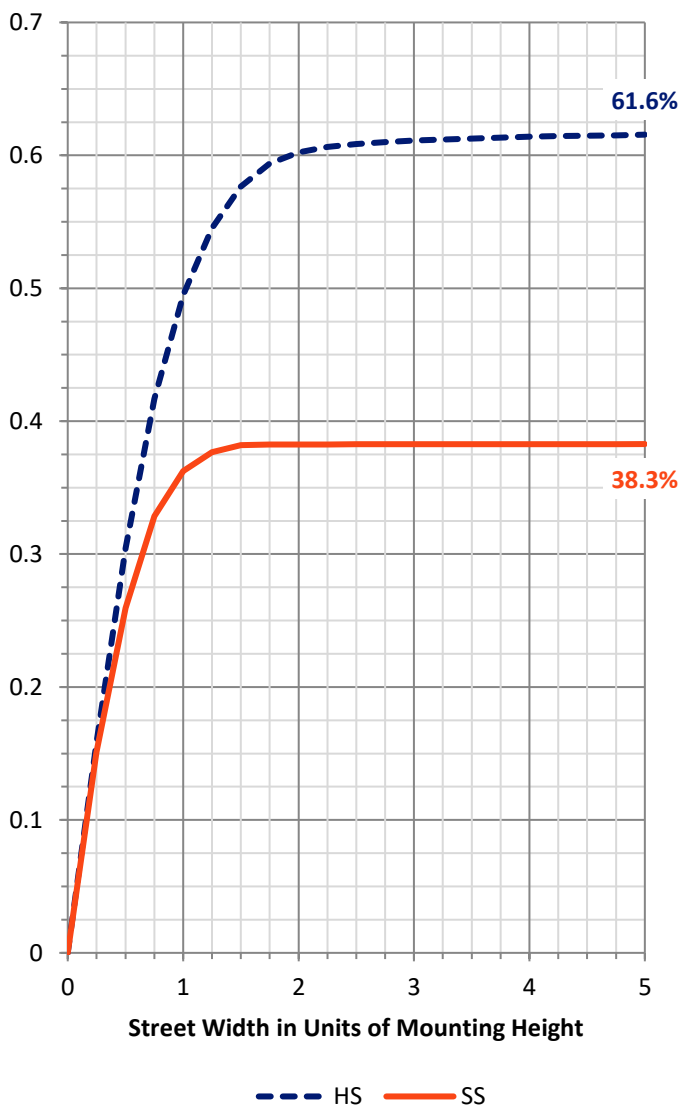
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31956.4	0.0	31956.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	19660.9	0.0	19660.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	51617.2	0.0	51617.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2136.7	4.1
10°-20°	6524.3	12.6
20°-30°	10314.5	20.0
30°-40°	11651.2	22.6
40°-50°	10911.6	21.1
50°-60°	7522.7	14.6
60°-70°	2021.1	3.9
70°-80°	421.2	0.8
80°-90°	113.9	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°	51617.2	100.0
0°-180°	51617.2	100.0

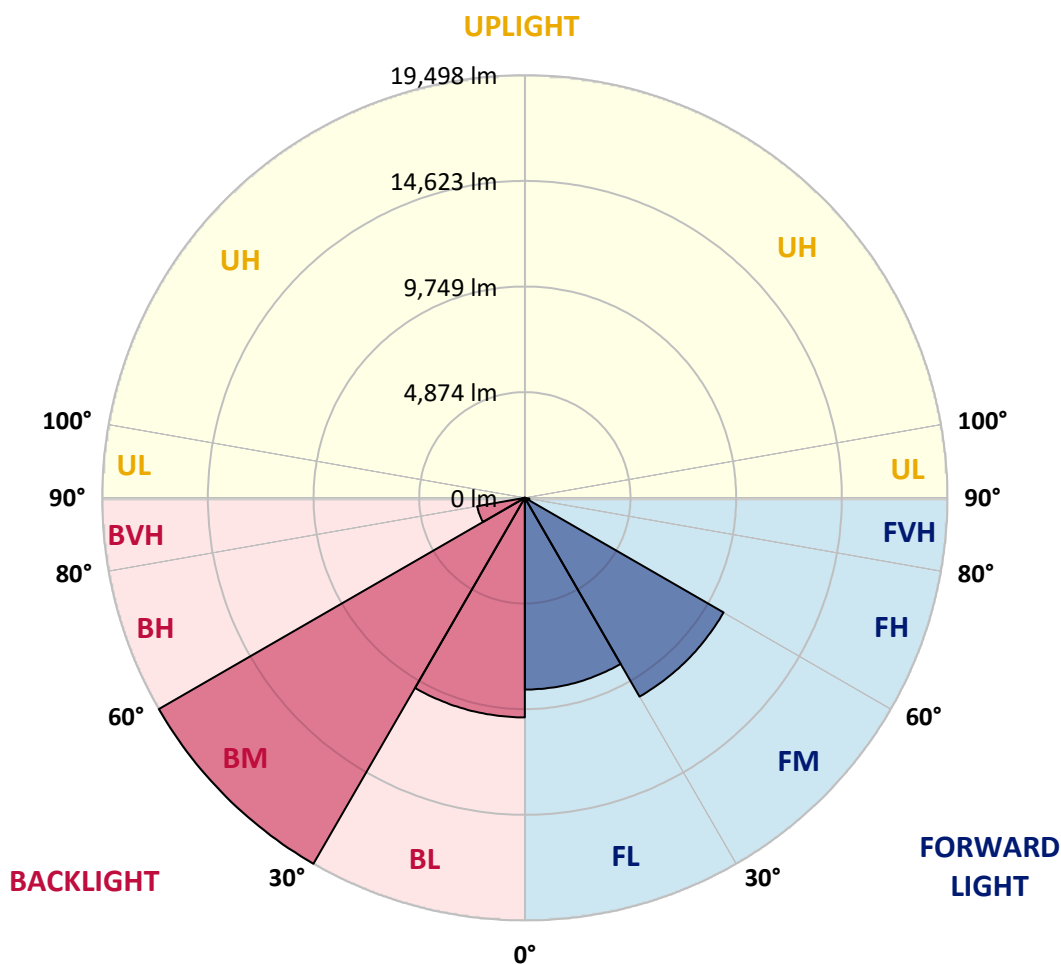


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8845.6	17.1			
FM (30°-60°)	10587.9	20.5			
FH (60°-80°)	212.2	0.4			G0/660
FVH (80°-90°)	15.3	0.0			G1/100
BL (0°-30°)	10130.0	19.6	B5		
BM (30°-60°)	19497.6	37.8	B5		
BH (60°-80°)	2230.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	98.7	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°	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9
2.5°	22370.5	22226.4	22089.9	22044.3	22234.0	22438.8	22309.8	22317.4	22271.9	22355.4
5°	22537.4	22340.2	22249.2	22180.9	22211.2	22423.6	22241.6	22309.8	22234.0	22332.6
7.5°	22476.7	22340.2	22249.2	22120.2	22218.8	22469.2	22294.7	22302.3	22264.3	22355.4
10°	22438.8	22340.2	22226.4	22241.6	22355.4	22567.8	22431.2	22507.1	22454.0	22507.1
12.5°	22529.8	22423.6	22362.9	22362.9	22461.6	22704.3	22636.0	22704.3	22681.6	22727.1
15°	21672.6	21771.3	22347.8	22605.7	22802.9	23045.7	23015.3	23083.6	23098.8	23167.0
17.5°	18281.8	18183.2	18137.7	19465.2	22992.6	23743.6	23720.8	23713.2	23637.4	23584.3
20°	18729.3	18691.4	18638.3	18736.9	19131.4	24107.7	24259.4	23326.3	23053.3	23030.5
22.5°	19442.4	19381.7	19184.5	19192.1	19313.5	20959.6	23508.4	22658.8	22567.8	22514.7
25°	19791.4	19670.0	19510.7	19465.2	19503.1	19199.7	20997.5	22006.4	21558.9	21354.0
27.5°	19176.9	19184.5	19055.5	19176.9	19032.8	17667.3	16901.2	20732.0	20716.8	20625.8
30°	18714.2	18691.4	18539.7	18691.4	17697.7	16172.9	15846.7	19336.2	19176.9	19055.5
32.5°	17295.6	17310.8	17750.8	18342.5	16711.5	15505.4	14519.2	17272.9	18782.5	18714.2
35°	12372.4	12402.8	13965.5	16886.0	15217.1	14177.9	14102.0	14928.9	18160.4	18190.8
37.5°	11909.7	11909.7	11871.8	12349.7	14041.3	13639.3	13791.0	13707.5	16635.7	16711.5
40°	11575.9	11507.7	11454.6	10703.6	9762.9	13260.0	13366.2	12986.9	15725.4	15740.5
42.5°	11173.9	11098.0	11113.2	9725.0	8738.8	12319.3	12023.5	11515.3	14208.2	14223.4
45°	10438.1	10567.0	10658.1	8511.3	8435.4	8799.5	11090.4	10771.8	13184.1	13464.8
47.5°	5310.1	5423.8	8321.6	7828.5	8003.0	7821.0	9368.5	9376.1	10969.1	11902.1
50°	4817.0	4786.6	4794.2	4566.7	7388.6	6326.6	6774.1	8594.7	8784.4	10119.5
52.5°	4490.8	4483.2	4020.5	3572.9	4642.5	5568.0	4915.6	6220.4	6531.4	8572.0
55°	3322.6	3565.3	3170.9	3360.5	2905.4	4460.5	4437.7	5613.5	5719.7	6872.7
57.5°	30.3	37.9	91.0	2556.4	2010.2	2230.2	3064.7	3830.8	4020.5	5355.6
60°	7.6	15.2	37.9	75.9	1304.8	1373.0	2048.2	2215.1	2495.7	3193.6
62.5°	0.0	0.0	15.2	37.9	68.3	561.3	652.4	713.1	1099.9	1630.9
65°	0.0	0.0	7.6	22.8	37.9	91.0	159.3	333.8	477.9	591.7
67.5°	0.0	0.0	7.6	15.2	30.3	45.5	91.0	129.0	204.8	348.9
70°	0.0	0.0	7.6	15.2	22.8	37.9	60.7	91.0	121.4	174.5
72.5°	0.0	0.0	7.6	15.2	15.2	45.5	45.5	68.3	91.0	113.8
75°	0.0	0.0	7.6	7.6	15.2	30.3	45.5	53.1	60.7	91.0
77.5°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	60.7	53.1	53.1
80°	0.0	0.0	7.6	22.8	22.8	37.9	45.5	60.7	37.9	37.9
82.5°	0.0	0.0	7.6	30.3	22.8	75.9	75.9	83.4	30.3	30.3
85°	0.0	0.0	22.8	15.2	45.5	75.9	68.3	45.5	37.9	22.8
87.5°	0.0	0.0	7.6	7.6	15.2	22.8	53.1	45.5	15.2	15.2
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°
22271.9	0°	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9	22271.9
22135.4	2.5°	22438.8	22340.2	22545.0	22522.3	22423.6	22378.1	22325.0	22279.5	21945.7
22150.5	5°	22446.4	22294.7	22545.0	22499.5	22484.3	22408.5	22362.9	22431.2	22127.8
22211.2	7.5°	22446.4	22294.7	22567.8	22582.9	22560.2	22499.5	22491.9	22537.4	22287.1
22317.4	10°	22598.1	22537.4	22765.0	22787.8	22757.4	22742.2	22704.3	22674.0	22408.5
22681.6	12.5°	22916.7	22795.3	23053.3	23121.5	23098.8	23136.7	23045.7	23091.2	22818.1
23053.3	15°	23303.6	23311.2	23508.4	23660.1	23645.0	23766.3	23629.8	23751.2	23553.9
23478.1	17.5°	23895.3	23978.7	24259.4	24487.0	24570.4	24661.4	24570.4	24608.3	24327.7
23007.7	20°	23273.2	23584.3	24934.5	25351.8	25526.2	25609.7	25458.0	25503.5	25222.8
22431.2	22.5°	22711.9	23113.9	24312.5	25617.3	26155.9	26322.7	26269.6	26262.1	26155.9
21293.4	25°	21885.0	22696.7	23235.3	24615.9	26307.6	26611.0	26641.3	26633.8	26474.5
20595.5	27.5°	20868.5	21050.6	22446.4	23288.4	25245.6	26398.6	26353.1	26133.1	25920.7
19146.6	30°	19571.4	20398.2	21027.8	22370.5	23872.5	25746.2	25746.2	25579.3	25359.3
18630.7	32.5°	18911.4	19981.0	20565.1	21050.6	22332.6	25018.0	25321.4	25146.9	24972.5
18228.7	35°	18562.5	18721.8	20087.2	20527.2	21612.0	23614.6	24843.5	24669.0	24540.1
17159.1	37.5°	17796.3	18168.0	18805.2	19981.0	20314.8	22469.2	24206.3	24115.3	23963.6
15770.9	40°	16089.5	17083.2	18061.8	19176.9	19525.9	20997.5	23432.5	23470.5	23265.7
14291.7	42.5°	15080.6	15755.7	17288.0	18039.0	18979.7	20049.3	22681.6	22742.2	22598.1
13540.7	45°	13897.2	14648.2	15725.4	17090.8	18372.8	18744.5	21354.0	21991.2	21869.9
12046.3	47.5°	12812.4	13419.3	14739.2	16119.8	17538.4	17485.3	19829.3	21027.8	20861.0
10900.8	50°	11272.5	12334.5	12956.6	14223.4	16339.8	16484.0	18205.9	19897.6	19761.0
9262.3	52.5°	9505.0	10840.1	12031.1	13191.7	15126.1	15467.5	16696.4	18744.5	18653.5
7077.6	55°	8306.5	9277.4	10620.1	11553.2	13654.4	14564.7	15566.1	17644.6	17599.1
5818.3	57.5°	5909.3	7783.0	8890.6	10195.3	11302.8	12949.0	13692.4	15406.8	14982.0
3224.0	60°	4005.3	4885.3	6235.5	7638.9	8382.3	10028.4	10718.7	12091.8	11978.0
1926.8	62.5°	2116.4	2928.1	3891.5	4597.0	5135.6	6736.2	7024.5	8503.7	8465.8
773.8	65°	933.1	1236.5	2108.9	2473.0	3026.7	3770.1	4020.5	4551.5	4422.5
379.3	67.5°	485.5	735.8	1191.0	1464.1	1843.4	2124.0	2328.8	2495.7	2601.9
250.3	70°	295.8	538.6	735.8	1016.5	1266.8	1494.4	1653.7	1881.3	2017.8
129.0	72.5°	220.0	341.4	508.2	781.3	917.9	1183.4	1342.7	1509.6	1630.9
106.2	75°	121.4	227.6	409.6	614.5	735.8	963.4	1107.5	1221.3	1259.2
60.7	77.5°	75.9	174.5	341.4	477.9	576.5	781.3	743.4	849.6	940.6
45.5	80°	53.1	129.0	265.5	394.5	402.0	500.7	591.7	682.7	743.4
30.3	82.5°	37.9	106.2	197.2	303.4	265.5	386.9	462.7	531.0	386.9
22.8	85°	30.3	75.9	98.6	182.1	151.7	273.1	235.2	227.6	151.7
15.2	87.5°	22.8	37.9	68.3	83.4	60.7	60.7	75.9	91.0	75.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
22271.9  
21718.2  
21869.9  
21998.8  
22188.5  
22575.4  
23227.7  
24084.9  
25025.6  
25814.5  
**26231.7**  
25753.8  
25275.9  
24828.3  
24358.0  
23811.8  
23220.1  
22582.9  
21885.0  
20982.3  
19783.8  
18714.2  
17652.2  
14936.4  
11985.6  
8473.3  
4369.4  
2601.9  
2025.4  
1653.7  
1236.5  
955.8  
751.0  
280.7  
151.7  
75.9  
0.0

(END OF REPORT)