

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: P638878

Luminaire Tested: **EPH-VN-06-E-940-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638878  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-940-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28180.5 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

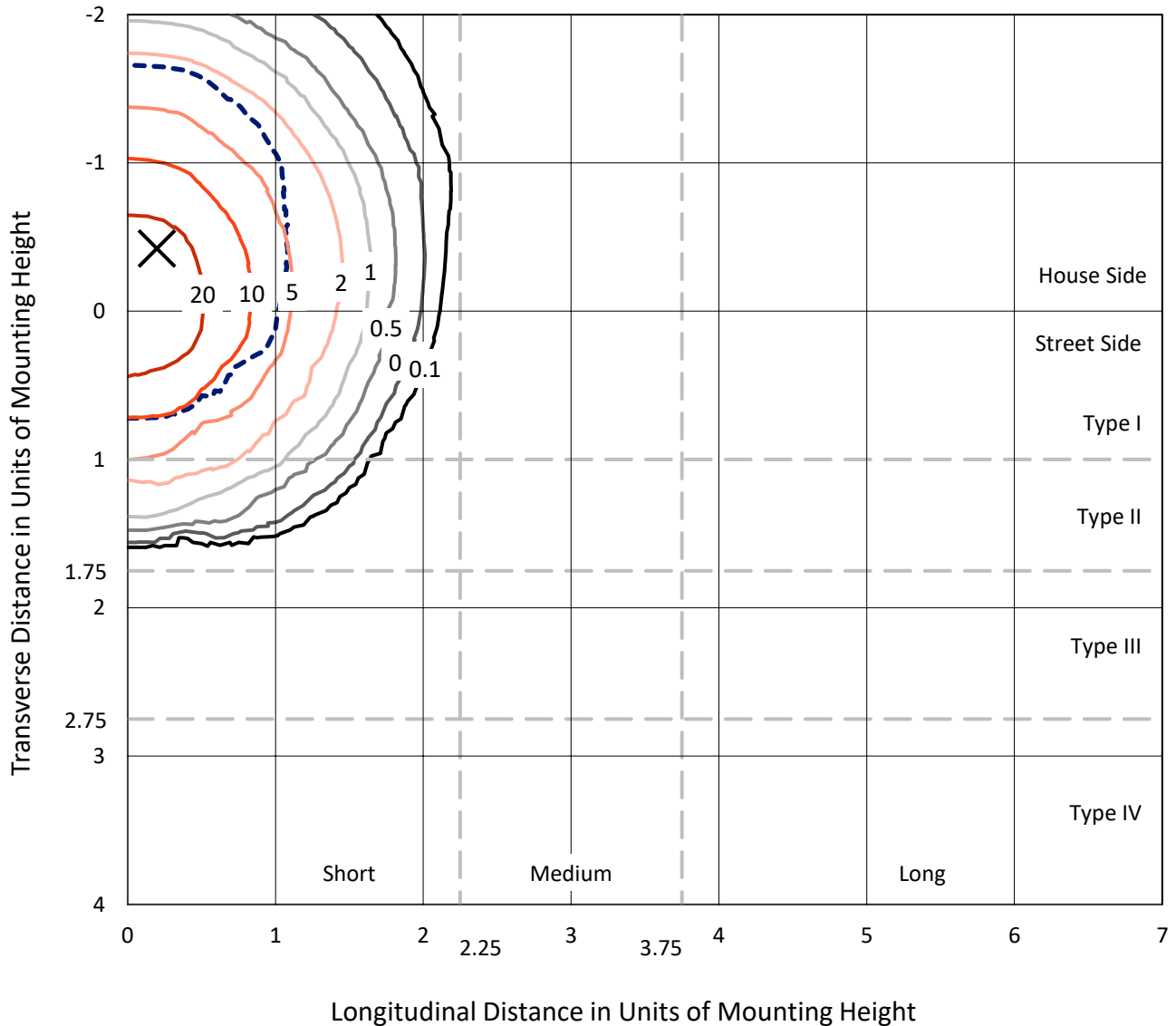
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

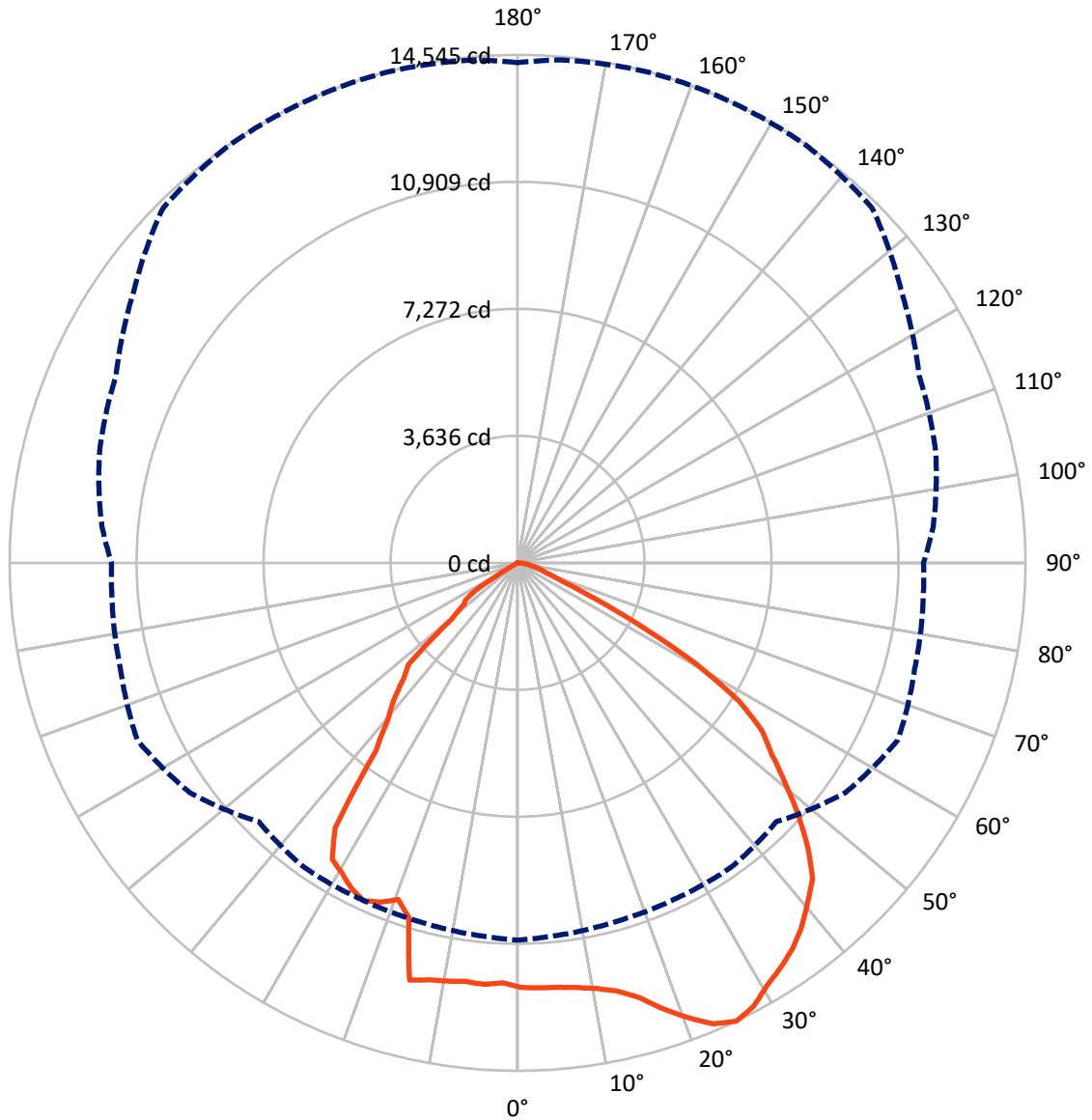
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 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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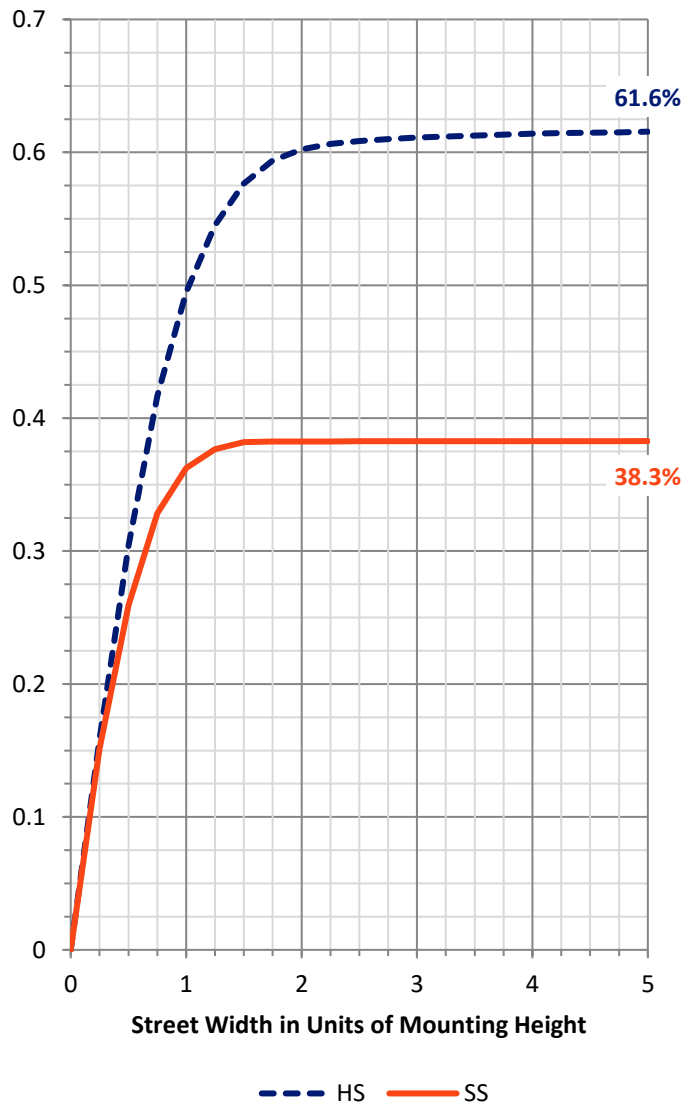
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17446.6	0.0	17446.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10733.9	0.0	10733.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	28180.5	0.0	28180.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1166.5	4.1
10°-20°	3561.9	12.6
20°-30°	5631.2	20.0
30°-40°	6361.0	22.6
40°-50°	5957.2	21.1
50°-60°	4107.1	14.6
60°-70°	1103.4	3.9
70°-80°	229.9	0.8
80°-90°	62.2	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°	28180.5	100.0
0°-180°	28180.5	100.0

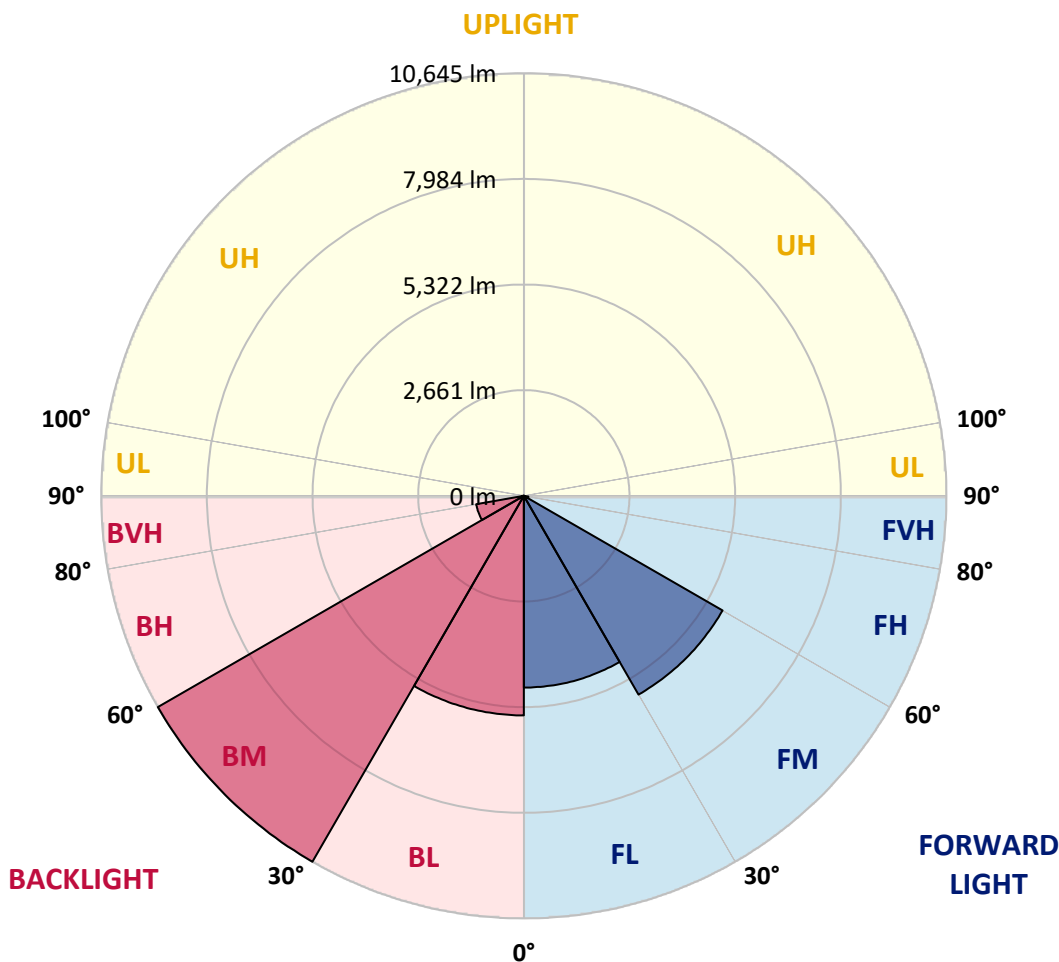


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4829.2	17.1			
FM (30°-60°)	5780.5	20.5			
FH (60°-80°)	115.8	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	5530.5	19.6	B5		
BM (30°-60°)	10644.8	37.8	B5		
BH (60°-80°)	1217.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	53.9	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°	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4
2.5°	12213.2	12134.5	12060.0	12035.2	12138.7	12250.5	12180.1	12184.2	12159.4	12205.0
5°	12304.3	12196.7	12147.0	12109.7	12126.3	12242.2	12142.8	12180.1	12138.7	12192.5
7.5°	12271.2	12196.7	12147.0	12076.6	12130.4	12267.1	12171.8	12176.0	12155.3	12205.0
10°	12250.5	12196.7	12134.5	12142.8	12205.0	12320.9	12246.4	12287.8	12258.8	12287.8
12.5°	12300.2	12242.2	12209.1	12209.1	12262.9	12395.5	12358.2	12395.5	12383.0	12407.9
15°	11832.2	11886.1	12200.8	12341.6	12449.3	12581.8	12565.3	12602.5	12610.8	12648.1
17.5°	9981.0	9927.1	9902.3	10627.0	12552.8	12962.8	12950.4	12946.3	12904.9	12875.9
20°	10225.3	10204.6	10175.6	10229.5	10444.8	13161.6	13244.5	12735.1	12586.0	12573.5
22.5°	10614.6	10581.5	10473.8	10478.0	10544.2	11442.9	12834.5	12370.6	12320.9	12291.9
25°	10805.1	10738.9	10651.9	10627.0	10647.8	10482.1	11463.6	12014.4	11770.1	11658.3
27.5°	10469.7	10473.8	10403.4	10469.7	10391.0	9645.5	9227.2	11318.7	11310.4	11260.7
30°	10217.0	10204.6	10121.8	10204.6	9662.1	8829.6	8651.6	10556.6	10469.7	10403.4
32.5°	9442.6	9450.9	9691.1	10014.1	9123.7	8465.2	7926.8	9430.2	10254.3	10217.0
35°	6754.8	6771.3	7624.5	9218.9	8307.8	7740.4	7699.0	8150.4	9914.7	9931.3
37.5°	6502.1	6502.1	6481.4	6742.3	7665.9	7446.4	7529.2	7483.7	9082.3	9123.7
40°	6319.9	6282.6	6253.6	5843.6	5330.1	7239.3	7297.3	7090.2	8585.3	8593.6
42.5°	6100.4	6059.0	6067.3	5309.4	4771.0	6725.8	6564.3	6286.8	7757.0	7765.3
45°	5698.7	5769.1	5818.8	4646.7	4605.3	4804.1	6054.8	5880.9	7197.9	7351.1
47.5°	2899.0	2961.2	4543.2	4274.0	4369.3	4269.9	5114.7	5118.9	5988.6	6498.0
50°	2629.8	2613.3	2617.4	2493.2	4033.8	3454.0	3698.3	4692.3	4795.8	5524.7
52.5°	2451.8	2447.6	2195.0	1950.6	2534.6	3039.8	2683.7	3396.0	3565.8	4679.9
55°	1814.0	1946.5	1731.1	1834.7	1586.2	2435.2	2422.8	3064.7	3122.7	3752.2
57.5°	16.6	20.7	49.7	1395.7	1097.5	1217.6	1673.2	2091.4	2195.0	2923.9
60°	4.1	8.3	20.7	41.4	712.3	749.6	1118.2	1209.3	1362.5	1743.6
62.5°	0.0	0.0	8.3	20.7	37.3	306.5	356.2	389.3	600.5	890.4
65°	0.0	0.0	4.1	12.4	20.7	49.7	87.0	182.2	260.9	323.0
67.5°	0.0	0.0	4.1	8.3	16.6	24.8	49.7	70.4	111.8	190.5
70°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	49.7	66.3	95.3
72.5°	0.0	0.0	4.1	8.3	8.3	24.8	24.8	37.3	49.7	62.1
75°	0.0	0.0	4.1	4.1	8.3	16.6	24.8	29.0	33.1	49.7
77.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	33.1	29.0	29.0
80°	0.0	0.0	4.1	12.4	12.4	20.7	24.8	33.1	20.7	20.7
82.5°	0.0	0.0	4.1	16.6	12.4	41.4	41.4	45.6	16.6	16.6
85°	0.0	0.0	12.4	8.3	24.8	41.4	37.3	24.8	20.7	12.4
87.5°	0.0	0.0	4.1	4.1	8.3	12.4	29.0	24.8	8.3	8.3
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°
12159.4	0°	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4	12159.4
12084.9	2.5°	12250.5	12196.7	12308.5	12296.1	12242.2	12217.4	12188.4	12163.5	11981.3
12093.1	5°	12254.7	12171.8	12308.5	12283.6	12275.4	12233.9	12209.1	12246.4	12080.7
12126.3	7.5°	12254.7	12171.8	12320.9	12329.2	12316.8	12283.6	12279.5	12304.3	12167.7
12184.2	10°	12337.5	12304.3	12428.6	12441.0	12424.5	12416.2	12395.5	12378.9	12233.9
12383.0	12.5°	12511.4	12445.2	12586.0	12623.2	12610.8	12631.5	12581.8	12606.7	12457.6
12586.0	15°	12722.6	12726.8	12834.5	12917.3	12909.0	12975.3	12900.7	12967.0	12859.3
12817.9	17.5°	13045.7	13091.2	13244.5	13368.7	13414.3	13464.0	13414.3	13435.0	13281.7
12561.1	20°	12706.1	12875.9	13613.1	13840.8	13936.1	13981.7	13898.8	13923.7	13770.4
12246.4	22.5°	12399.6	12619.1	13273.5	13985.8	14279.8	14370.9	14342.0	14337.8	14279.8
11625.1	25°	11948.2	12391.3	12685.4	13439.1	14362.7	14528.3	14544.9	14540.8	14453.8
11244.1	27.5°	11393.2	11492.6	12254.7	12714.4	13782.9	14412.4	14387.5	14267.4	14151.5
10453.1	30°	10685.0	11136.5	11480.2	12213.2	13033.3	14056.2	14056.2	13965.1	13845.0
10171.5	32.5°	10324.7	10908.7	11227.6	11492.6	12192.5	13658.6	13824.3	13729.0	13633.8
9952.0	35°	10134.2	10221.2	10966.6	11206.9	11799.1	12892.4	13563.4	13468.1	13397.7
9368.0	37.5°	9715.9	9918.9	10266.7	10908.7	11090.9	12267.1	13215.5	13165.8	13082.9
8610.1	40°	8784.1	9326.6	9860.9	10469.7	10660.2	11463.6	12793.0	12813.8	12701.9
7802.6	42.5°	8233.3	8601.9	9438.4	9848.4	10362.0	10945.9	12383.0	12416.2	12337.5
7392.5	45°	7587.2	7997.2	8585.3	9330.8	10030.7	10233.6	11658.3	12006.2	11939.9
6576.7	47.5°	6995.0	7326.3	8046.9	8800.7	9575.1	9546.1	10825.8	11480.2	11389.1
5951.3	50°	6154.2	6734.1	7073.7	7765.3	8920.8	8999.4	9939.6	10863.1	10788.6
5056.8	52.5°	5189.3	5918.2	6568.4	7202.0	8258.1	8444.5	9115.4	10233.6	10183.9
3864.0	55°	4534.9	5065.0	5798.1	6307.5	7454.7	7951.6	8498.3	9633.1	9608.2
3176.5	57.5°	3226.2	4249.2	4853.8	5566.2	6170.8	7069.5	7475.4	8411.4	8179.4
1760.1	60°	2186.7	2667.1	3404.3	4170.5	4576.3	5475.0	5851.9	6601.5	6539.4
1051.9	62.5°	1155.5	1598.6	2124.6	2509.7	2803.8	3677.6	3835.0	4642.6	4621.9
422.4	65°	509.4	675.1	1151.3	1350.1	1652.5	2058.3	2195.0	2484.9	2414.5
207.1	67.5°	265.1	401.7	650.2	799.3	1006.4	1159.6	1271.4	1362.5	1420.5
136.7	70°	161.5	294.0	401.7	555.0	691.6	815.9	902.8	1027.1	1101.6
70.4	72.5°	120.1	186.4	277.5	426.6	501.1	646.1	733.0	824.2	890.4
58.0	75°	66.3	124.2	223.6	335.5	401.7	526.0	604.7	666.8	687.5
33.1	77.5°	41.4	95.3	186.4	260.9	314.8	426.6	405.9	463.8	513.5
24.8	80°	29.0	70.4	145.0	215.4	219.5	273.3	323.0	372.7	405.9
16.6	82.5°	20.7	58.0	107.7	165.7	145.0	211.2	252.6	289.9	211.2
12.4	85°	16.6	41.4	53.8	99.4	82.8	149.1	128.4	124.2	82.8
8.3	87.5°	12.4	20.7	37.3	45.6	33.1	33.1	41.4	49.7	41.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
12159.4  
11857.1  
11939.9  
12010.3  
12113.8  
12325.1  
12681.2  
13149.2  
13662.8  
14093.5  
*14321.3*  
14060.3  
13799.4  
13555.1  
13298.3  
13000.1  
12677.1  
12329.2  
11948.2  
11455.3  
10801.0  
10217.0  
9637.2  
8154.6  
6543.5  
4626.0  
2385.5  
1420.5  
1105.8  
902.8  
675.1  
521.8  
410.0  
153.2  
82.8  
41.4  
0.0

(END OF REPORT)