

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: P638834

Luminaire Tested: **EPH-VN-03-E-730-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638834  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-730-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18103 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

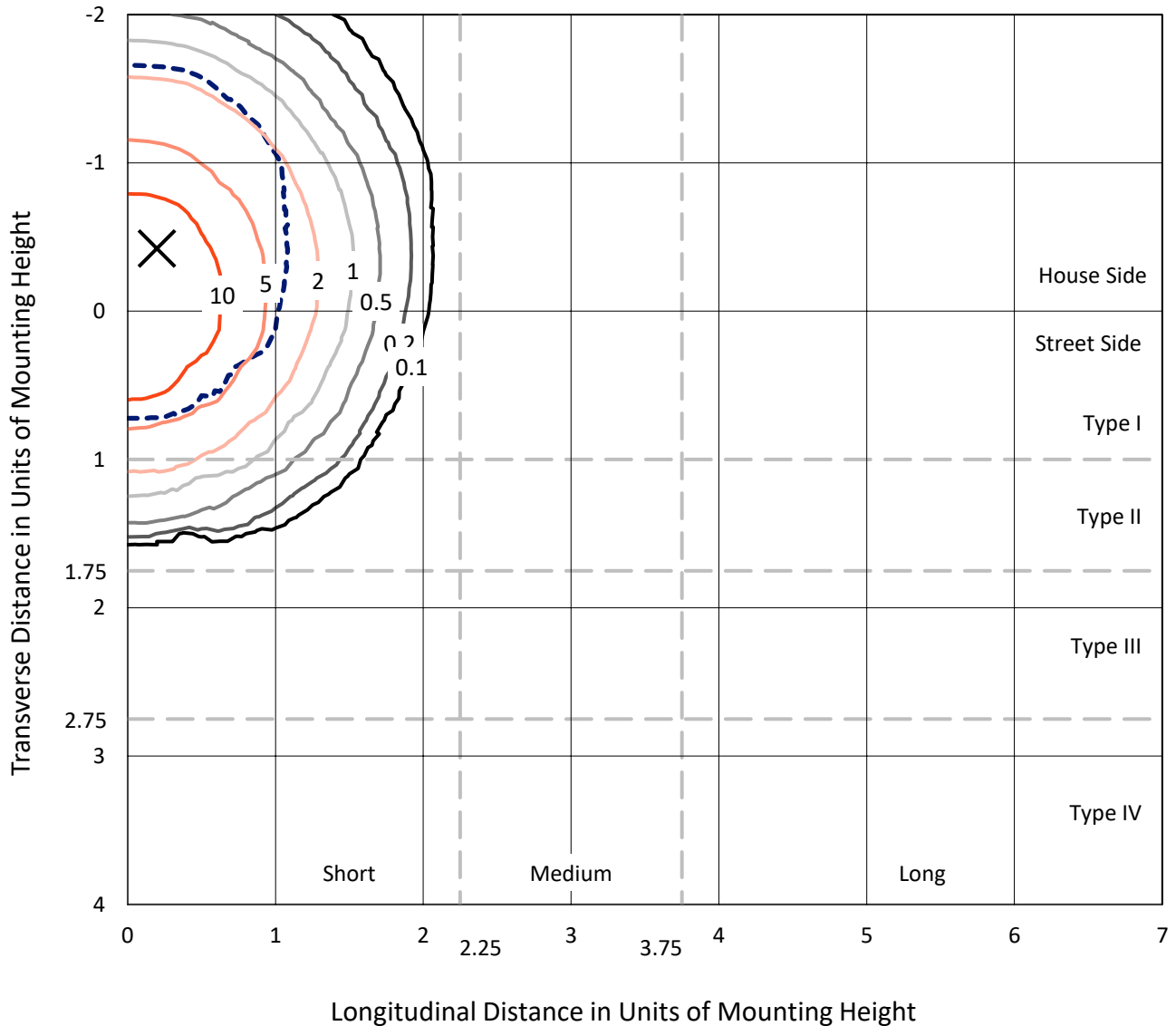
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

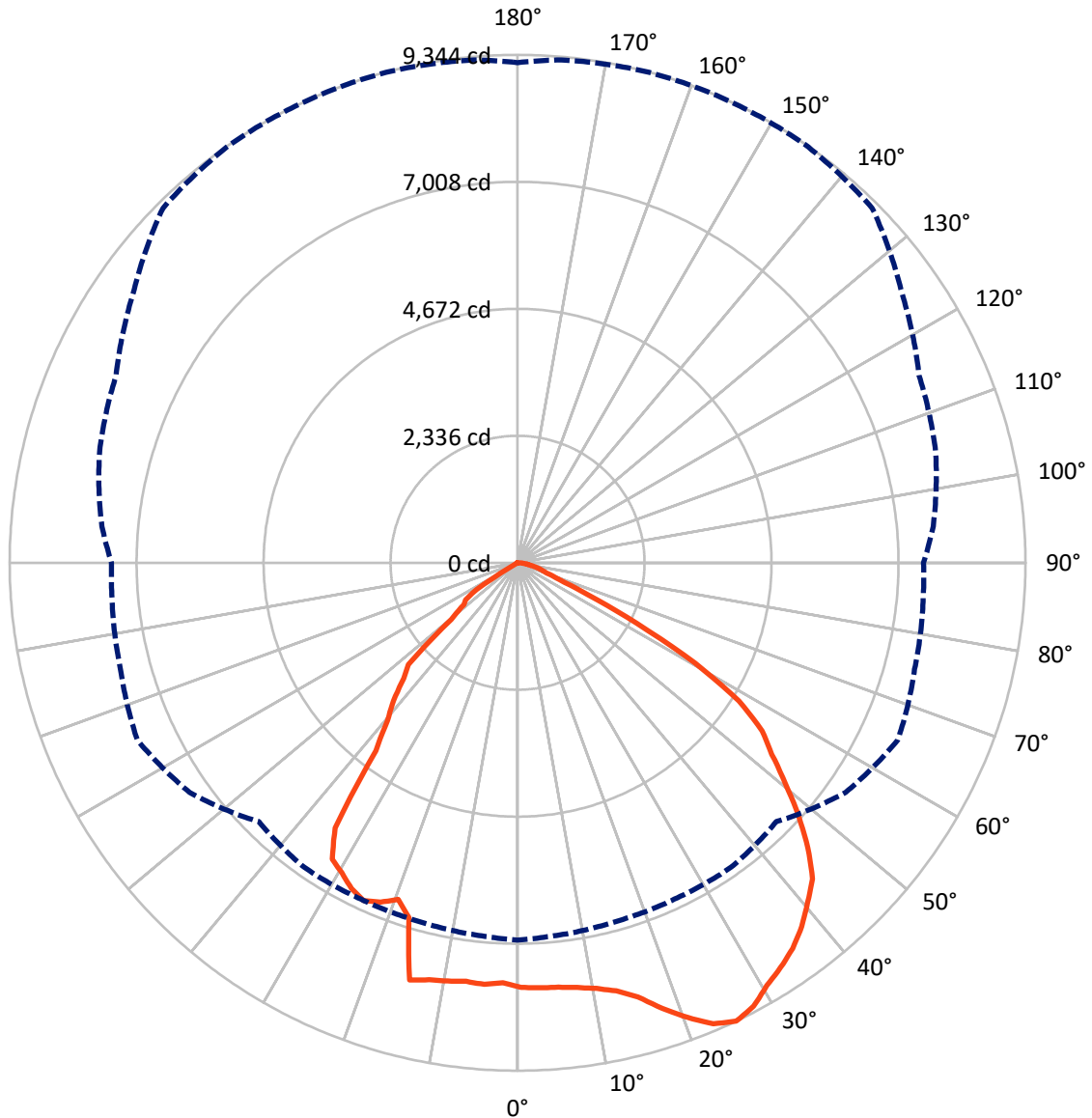
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.5 fc  
 Type I - Short - N/A

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CATALOG NUMBER: EPH-VN-03-E-730-U-LAM-VI

### 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	11207.6	0.0	11207.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6895.4	0.0	6895.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	18103.0	0.0	18103.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	749.4	4.1
10°-20°	2288.2	12.6
20°-30°	3617.5	20.0
30°-40°	4086.3	22.6
40°-50°	3826.9	21.1
50°-60°	2638.4	14.6
60°-70°	708.8	3.9
70°-80°	147.7	0.8
80°-90°	40.0	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°	18103.0	100.0
0°-180°	18103.0	100.0

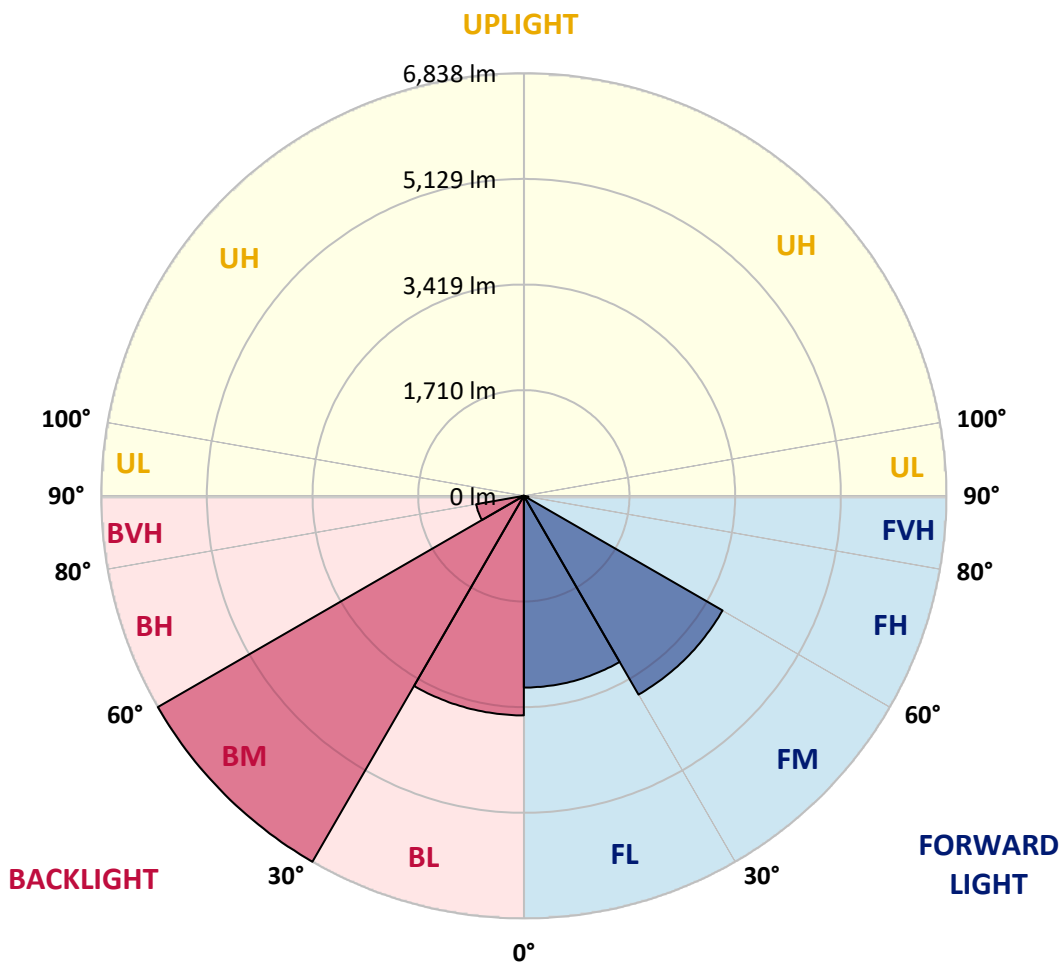


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3102.3	17.1			
FM (30°-60°)	3713.3	20.5			
FH (60°-80°)	74.4	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	3552.8	19.6	B4/5000		
BM (30°-60°)	6838.1	37.8	B4/8500		
BH (60°-80°)	782.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1
2.5°	7845.7	7795.2	7747.3	7731.3	7797.8	7869.7	7824.4	7827.1	7811.1	7840.4
5°	7904.3	7835.1	7803.2	7779.2	7789.9	7864.3	7800.5	7824.4	7797.8	7832.4
7.5°	7883.0	7835.1	7803.2	7757.9	7792.5	7880.3	7819.1	7821.8	7808.5	7840.4
10°	7869.7	7835.1	7795.2	7800.5	7840.4	7914.9	7867.0	7893.6	7875.0	7893.6
12.5°	7901.6	7864.3	7843.1	7843.1	7877.7	7962.8	7938.8	7962.8	7954.8	7970.8
15°	7601.0	7635.5	7837.7	7928.2	7997.4	8082.5	8071.9	8095.8	8101.1	8125.1
17.5°	6411.7	6377.1	6361.2	6826.8	8063.9	8327.3	8319.3	8316.6	8290.0	8271.4
20°	6568.7	6555.4	6536.8	6571.4	6709.7	8455.0	8508.2	8180.9	8085.2	8077.2
22.5°	6818.8	6797.5	6728.3	6731.0	6773.6	7350.9	8244.8	7946.8	7914.9	7896.3
25°	6941.2	6898.6	6842.7	6826.8	6840.1	6733.6	7364.2	7718.0	7561.1	7489.2
27.5°	6725.7	6728.3	6683.1	6725.7	6675.1	6196.2	5927.5	7271.1	7265.7	7233.8
30°	6563.4	6555.4	6502.2	6555.4	6206.9	5672.1	5557.7	6781.5	6725.7	6683.1
32.5°	6065.9	6071.2	6225.5	6433.0	5861.0	5438.0	5092.1	6057.9	6587.3	6563.4
35°	4339.2	4349.9	4897.9	5922.2	5336.9	4972.4	4945.8	5235.8	6369.2	6379.8
37.5°	4176.9	4176.9	4163.6	4331.2	4924.5	4783.5	4836.7	4807.5	5834.4	5861.0
40°	4059.9	4035.9	4017.3	3753.9	3424.0	4650.5	4687.7	4554.7	5515.2	5520.5
42.5°	3918.9	3892.3	3897.6	3410.7	3064.9	4320.6	4216.8	4038.6	4983.1	4988.4
45°	3660.8	3706.0	3738.0	2985.0	2958.4	3086.1	3889.6	3777.9	4623.9	4722.3
47.5°	1862.3	1902.2	2918.5	2745.6	2806.8	2742.9	3285.7	3288.3	3847.0	4174.3
50°	1689.4	1678.8	1681.4	1601.6	2591.3	2218.8	2375.8	3014.3	3080.8	3549.1
52.5°	1575.0	1572.3	1410.0	1253.1	1628.2	1952.8	1724.0	2181.6	2290.7	3006.3
55°	1165.3	1250.4	1112.1	1178.6	1019.0	1564.4	1556.4	1968.7	2006.0	2410.4
57.5°	10.6	13.3	31.9	896.6	705.0	782.2	1074.8	1343.5	1410.0	1878.3
60°	2.7	5.3	13.3	26.6	457.6	481.5	718.3	776.9	875.3	1120.1
62.5°	0.0	0.0	5.3	13.3	23.9	196.9	228.8	250.1	385.8	572.0
65°	0.0	0.0	2.7	8.0	13.3	31.9	55.9	117.1	167.6	207.5
67.5°	0.0	0.0	2.7	5.3	10.6	16.0	31.9	45.2	71.8	122.4
70°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	31.9	42.6	61.2
72.5°	0.0	0.0	2.7	5.3	5.3	16.0	16.0	23.9	31.9	39.9
75°	0.0	0.0	2.7	2.7	5.3	10.6	16.0	18.6	21.3	31.9
77.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	21.3	18.6	18.6
80°	0.0	0.0	2.7	8.0	8.0	13.3	16.0	21.3	13.3	13.3
82.5°	0.0	0.0	2.7	10.6	8.0	26.6	26.6	29.3	10.6	10.6
85°	0.0	0.0	8.0	5.3	16.0	26.6	23.9	16.0	13.3	8.0
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	18.6	16.0	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638834

CATALOG NUMBER: EPH-VN-03-E-730-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7811.1	0°	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1	7811.1
7763.3	2.5°	7869.7	7835.1	7906.9	7898.9	7864.3	7848.4	7829.8	7813.8	7696.7
7768.6	5°	7872.3	7819.1	7906.9	7891.0	7885.6	7859.0	7843.1	7867.0	7760.6
7789.9	7.5°	7872.3	7819.1	7914.9	7920.2	7912.2	7891.0	7888.3	7904.3	7816.5
7827.1	10°	7925.5	7904.3	7984.1	7992.1	7981.4	7976.1	7962.8	7952.1	7859.0
7954.8	12.5°	8037.3	7994.7	8085.2	8109.1	8101.1	8114.4	8082.5	8098.5	8002.7
8085.2	15°	8173.0	8175.6	8244.8	8298.0	8292.7	8335.3	8287.4	8329.9	8260.8
8234.2	17.5°	8380.5	8409.7	8508.2	8588.0	8617.3	8649.2	8617.3	8630.6	8532.1
8069.2	20°	8162.3	8271.4	8745.0	8891.3	8952.5	8981.7	8928.5	8944.5	8846.1
7867.0	22.5°	7965.4	8106.5	8526.8	8984.4	9173.3	9231.8	9213.2	9210.5	9173.3
7467.9	25°	7675.5	7960.1	8149.0	8633.2	9226.5	9332.9	9343.6	9340.9	9285.0
7223.2	27.5°	7319.0	7382.8	7872.3	8167.6	8854.0	9258.4	9242.5	9165.3	9090.8
6715.0	30°	6864.0	7154.0	7374.8	7845.7	8372.5	9029.6	9029.6	8971.1	8894.0
6534.1	32.5°	6632.6	7007.7	7212.5	7382.8	7832.4	8774.2	8880.6	8819.5	8758.3
6393.1	35°	6510.2	6566.0	7044.9	7199.2	7579.7	8282.0	8713.0	8651.8	8606.6
6018.0	37.5°	6241.5	6371.8	6595.3	7007.7	7124.7	7880.3	8489.6	8457.6	8404.4
5531.1	40°	5642.9	5991.4	6334.6	6725.7	6848.0	7364.2	8218.2	8231.5	8159.7
5012.3	42.5°	5289.0	5525.8	6063.2	6326.6	6656.5	7031.6	7954.8	7976.1	7925.5
4748.9	45°	4874.0	5137.4	5515.2	5994.0	6443.7	6574.0	7489.2	7712.7	7670.1
4224.8	47.5°	4493.5	4706.4	5169.3	5653.5	6151.0	6132.4	6954.5	7374.8	7316.3
3823.1	50°	3953.5	4325.9	4544.1	4988.4	5730.7	5781.2	6385.1	6978.4	6930.5
3248.4	52.5°	3333.6	3801.8	4219.5	4626.6	5305.0	5424.7	5855.7	6574.0	6542.1
2482.2	55°	2913.2	3253.8	3724.7	4051.9	4788.8	5108.1	5459.3	6188.3	6172.3
2040.6	57.5°	2072.5	2729.6	3118.1	3575.7	3964.1	4541.4	4802.1	5403.4	5254.4
1130.7	60°	1404.7	1713.3	2186.9	2679.1	2939.8	3517.1	3759.2	4240.8	4200.9
675.8	62.5°	742.3	1026.9	1364.8	1612.2	1801.1	2362.5	2463.6	2982.4	2969.1
271.4	65°	327.2	433.7	739.6	867.3	1061.5	1322.3	1410.0	1596.3	1551.1
133.0	67.5°	170.3	258.1	417.7	513.5	646.5	744.9	816.8	875.3	912.5
87.8	70°	103.8	188.9	258.1	356.5	444.3	524.1	580.0	659.8	707.7
45.2	72.5°	77.2	119.7	178.3	274.0	321.9	415.0	470.9	529.4	572.0
37.2	75°	42.6	79.8	143.7	215.5	258.1	337.9	388.4	428.3	441.6
21.3	77.5°	26.6	61.2	119.7	167.6	202.2	274.0	260.7	298.0	329.9
16.0	80°	18.6	45.2	93.1	138.3	141.0	175.6	207.5	239.4	260.7
10.6	82.5°	13.3	37.2	69.2	106.4	93.1	135.7	162.3	186.2	135.7
8.0	85°	10.6	26.6	34.6	63.9	53.2	95.8	82.5	79.8	53.2
5.3	87.5°	8.0	13.3	23.9	29.3	21.3	21.3	26.6	31.9	26.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7811.1
7616.9
7670.1
7715.4
7781.9
7917.6
8146.4
8447.0
8776.9
9053.6
9199.9
9032.3
8864.7
8707.7
8542.8
8351.2
8143.7
7920.2
7675.5
7358.9
6938.5
6563.4
6190.9
5238.5
4203.5
2971.7
1532.4
912.5
710.3
580.0
433.7
335.2
263.4
98.4
53.2
26.6
0.0

(END OF REPORT)