

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: P638875

Luminaire Tested: **EPH-VN-08-E-935-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638875
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-935-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33506.5 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

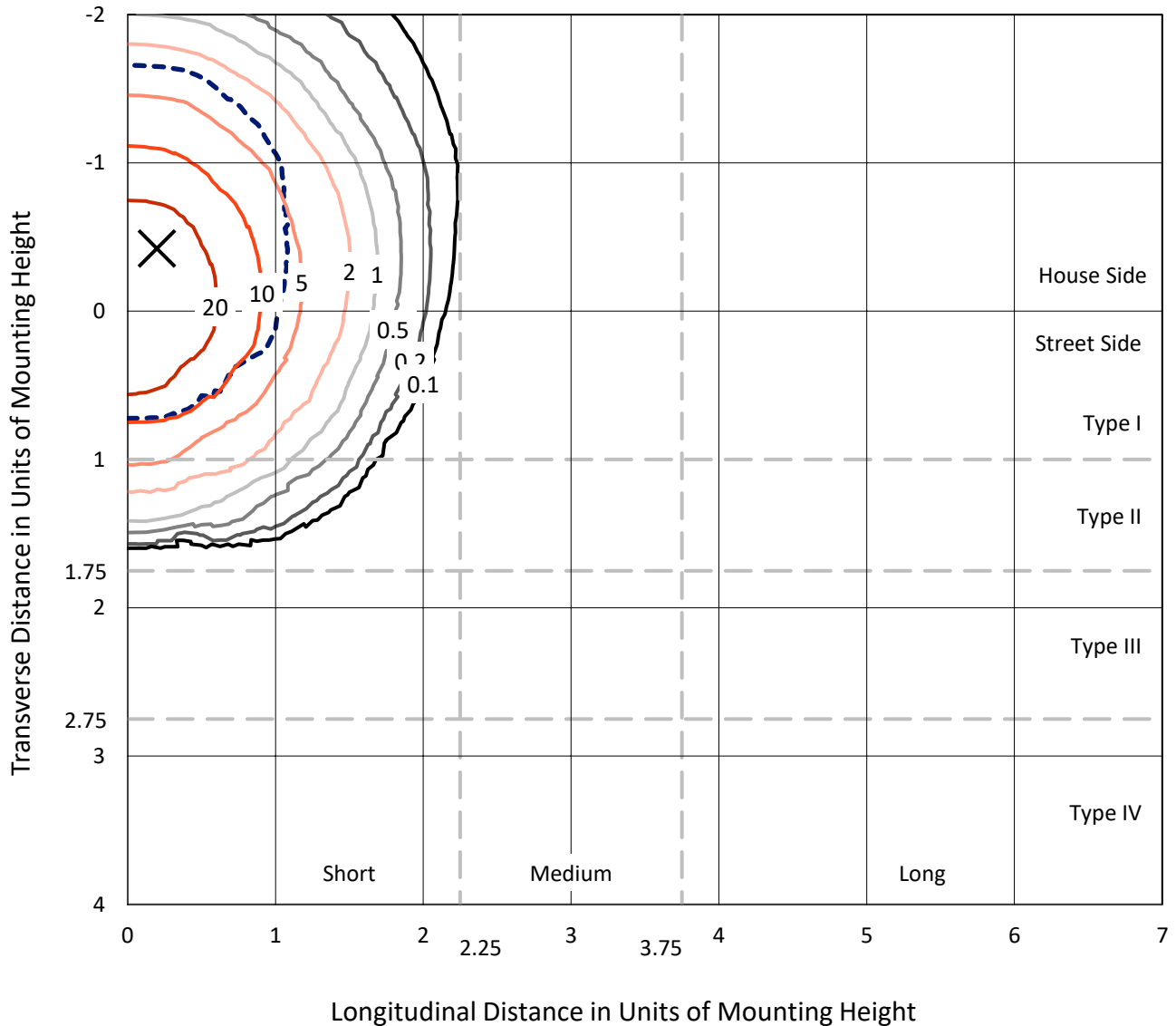
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

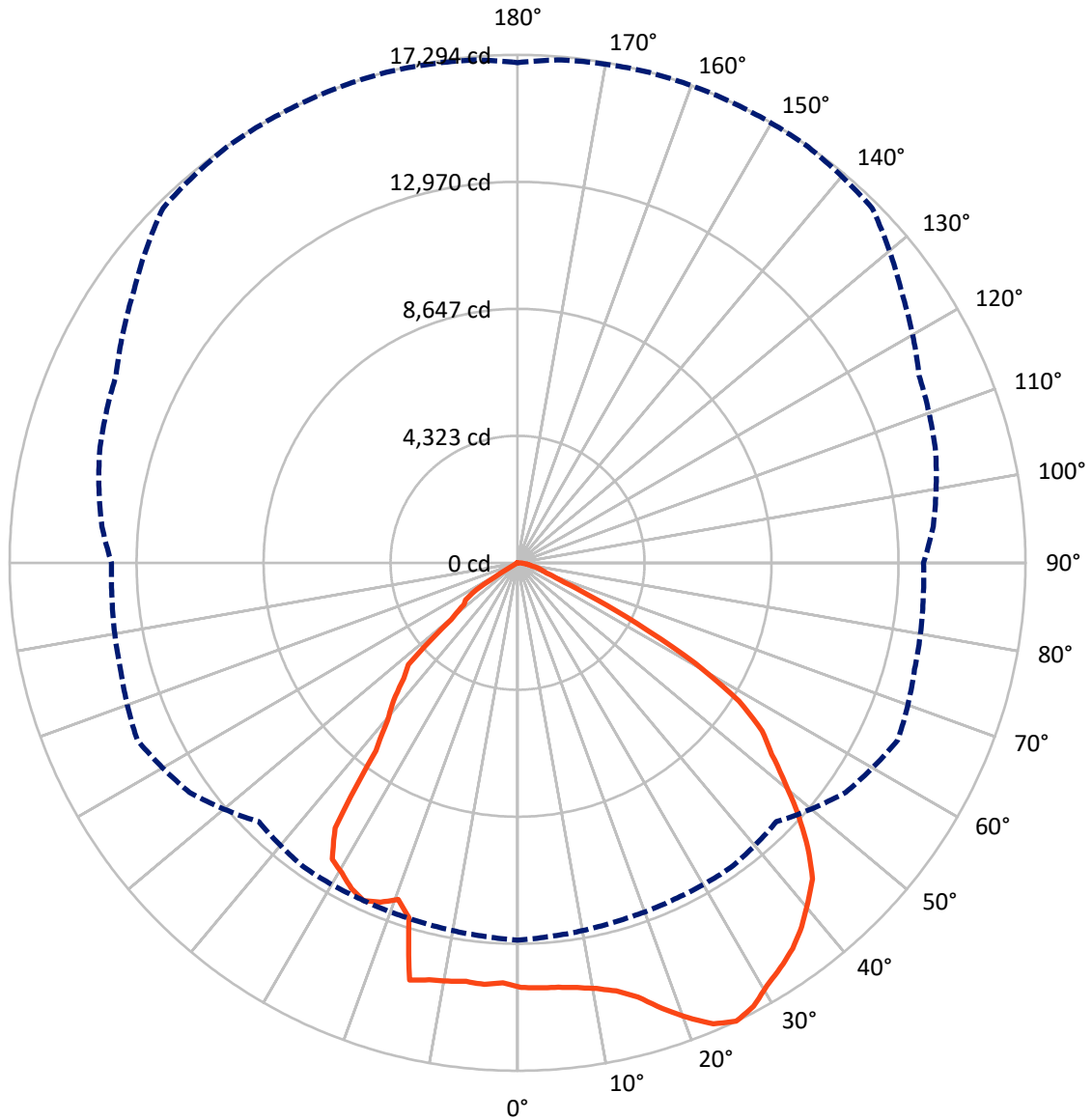
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.1 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
House Side	Lumens	20744.0	0.0	20744.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12762.5	0.0	12762.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	33506.5	0.0	33506.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1387.0	4.1
10°-20°	4235.1	12.6
20°-30°	6695.5	20.0
30°-40°	7563.2	22.6
40°-50°	7083.1	21.1
50°-60°	4883.3	14.6
60°-70°	1312.0	3.9
70°-80°	273.4	0.8
80°-90°	74.0	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°	33506.5	100.0
0°-180°	33506.5	100.0

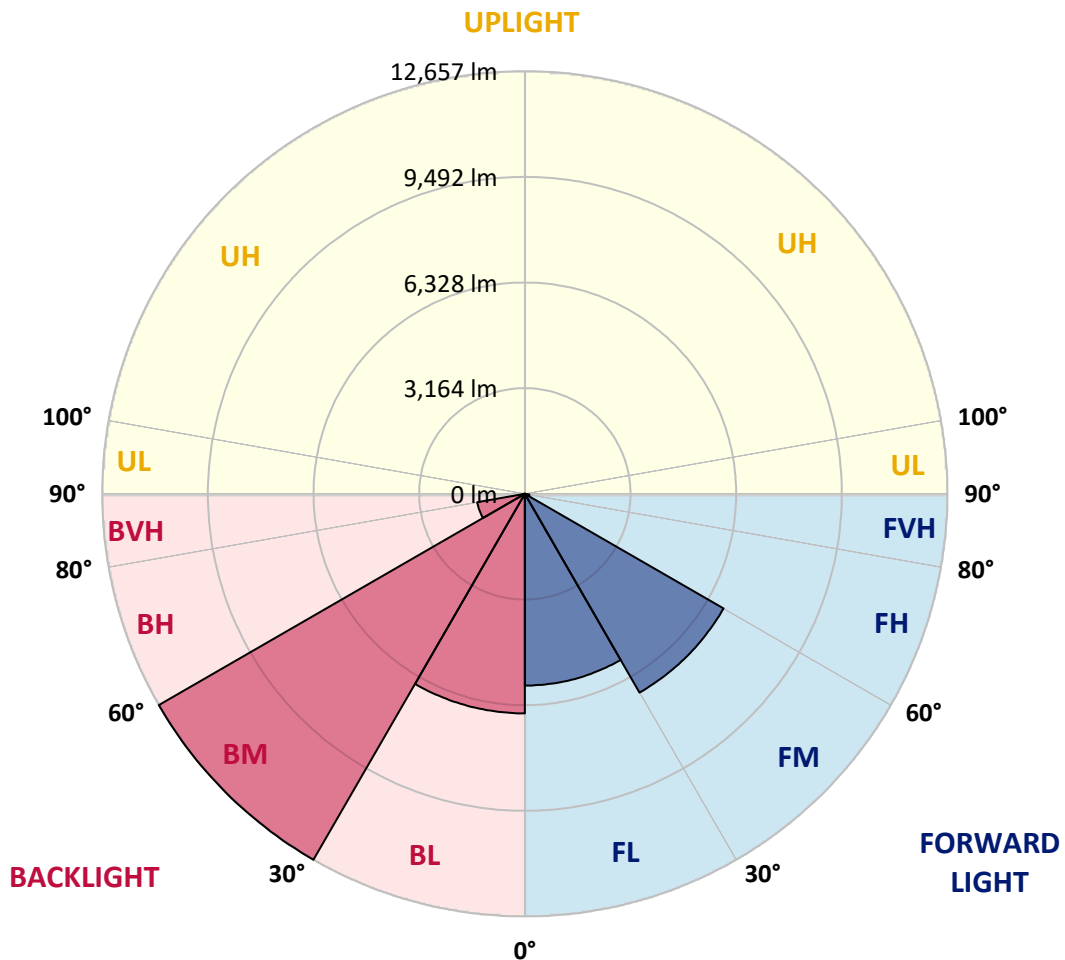


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5742.0	17.1			
FM (30°-60°)	6872.9	20.5			
FH (60°-80°)	137.7	0.4			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	6575.7	19.6	B5		
BM (30°-60°)	12656.6	37.8	B5		
BH (60°-80°)	1447.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.0	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°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
2.5°	14521.5	14427.9	14339.3	14309.8	14432.9	14565.8	14482.1	14487.0	14457.5	14511.6
5°	14629.8	14501.8	14442.7	14398.4	14418.1	14556.0	14437.8	14482.1	14432.9	14496.9
7.5°	14590.4	14501.8	14442.7	14359.0	14423.0	14585.5	14472.3	14477.2	14452.6	14511.6
10°	14565.8	14501.8	14427.9	14437.8	14511.6	14649.5	14560.9	14610.1	14575.7	14610.1
12.5°	14624.9	14556.0	14516.6	14516.6	14580.6	14738.2	14693.8	14738.2	14723.4	14752.9
15°	14068.5	14132.5	14506.7	14674.1	14802.2	14959.7	14940.1	14984.4	14994.2	15038.5
17.5°	11867.3	11803.3	11773.8	12635.5	14925.3	15412.8	15398.0	15393.1	15343.8	15309.4
20°	12157.9	12133.3	12098.8	12162.8	12418.9	15649.1	15747.6	15141.9	14964.7	14949.9
22.5°	12620.7	12581.4	12453.3	12458.2	12537.0	13605.6	15260.1	14708.6	14649.5	14615.1
25°	12847.3	12768.5	12665.1	12635.5	12660.1	12463.2	13630.2	14285.1	13994.6	13861.6
27.5°	12448.4	12453.3	12369.6	12448.4	12354.8	11468.5	10971.1	13457.9	13448.0	13388.9
30°	12148.0	12133.3	12034.8	12133.3	11488.2	10498.4	10286.7	12551.8	12448.4	12369.6
32.5°	11227.2	11237.0	11522.6	11906.7	10848.0	10065.1	9424.9	11212.4	12192.3	12148.0
35°	8031.4	8051.1	9065.5	10961.3	9878.0	9203.3	9154.1	9690.8	11788.6	11808.3
37.5°	7731.0	7731.0	7706.4	8016.6	9114.7	8853.7	8952.2	8898.0	10798.8	10848.0
40°	7514.3	7470.0	7435.6	6948.1	6337.5	8607.5	8676.5	8430.2	10207.9	10217.7
42.5°	7253.4	7204.1	7214.0	6312.8	5672.7	7996.9	7804.9	7474.9	9223.0	9232.9
45°	6775.7	6859.4	6918.5	5525.0	5475.7	5712.1	7199.2	6992.4	8558.3	8740.5
47.5°	3446.9	3520.8	5401.9	5081.8	5195.0	5076.9	6081.4	6086.3	7120.4	7726.1
50°	3126.9	3107.2	3112.1	2964.4	4796.2	4106.8	4397.3	5579.1	5702.2	6568.9
52.5°	2915.1	2910.2	2609.8	2319.3	3013.6	3614.4	3190.9	4037.9	4239.7	5564.4
55°	2156.8	2314.4	2058.3	2181.4	1886.0	2895.4	2880.7	3643.9	3712.9	4461.3
57.5°	19.7	24.6	59.1	1659.5	1304.9	1447.7	1989.4	2486.7	2609.8	3476.5
60°	4.9	9.8	24.6	49.2	847.0	891.3	1329.5	1437.9	1620.1	2073.1
62.5°	0.0	0.0	9.8	24.6	44.3	364.4	423.5	462.9	714.0	1058.7
65°	0.0	0.0	4.9	14.8	24.6	59.1	103.4	216.7	310.2	384.1
67.5°	0.0	0.0	4.9	9.8	19.7	29.5	59.1	83.7	133.0	226.5
70°	0.0	0.0	4.9	9.8	14.8	24.6	39.4	59.1	78.8	113.3
72.5°	0.0	0.0	4.9	9.8	9.8	29.5	29.5	44.3	59.1	73.9
75°	0.0	0.0	4.9	4.9	9.8	19.7	29.5	34.5	39.4	59.1
77.5°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	39.4	34.5	34.5
80°	0.0	0.0	4.9	14.8	14.8	24.6	29.5	39.4	24.6	24.6
82.5°	0.0	0.0	4.9	19.7	14.8	49.2	49.2	54.2	19.7	19.7
85°	0.0	0.0	14.8	9.8	29.5	49.2	44.3	29.5	24.6	14.8
87.5°	0.0	0.0	4.9	4.9	9.8	14.8	34.5	29.5	9.8	9.8
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°
14457.5	0°	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5	14457.5
14368.8	2.5°	14565.8	14501.8	14634.8	14620.0	14556.0	14526.4	14491.9	14462.4	14245.7
14378.7	5°	14570.7	14472.3	14634.8	14605.2	14595.4	14546.1	14516.6	14560.9	14363.9
14418.1	7.5°	14570.7	14472.3	14649.5	14659.4	14644.6	14605.2	14600.3	14629.8	14467.3
14487.0	10°	14669.2	14629.8	14777.6	14792.3	14772.6	14762.8	14738.2	14718.5	14546.1
14723.4	12.5°	14876.0	14797.2	14964.7	15009.0	14994.2	15018.8	14959.7	14989.3	14812.0
14964.7	15°	15127.2	15132.1	15260.1	15358.6	15348.8	15427.5	15338.9	15417.7	15289.7
15240.4	17.5°	15511.3	15565.4	15747.6	15895.3	15949.5	16008.6	15949.5	15974.1	15791.9
14935.1	20°	15107.5	15309.4	16185.9	16456.7	16570.0	16624.1	16525.6	16555.2	16373.0
14560.9	22.5°	14743.1	15004.1	15782.1	16629.1	16978.7	17087.0	17052.5	17047.6	16978.7
13822.3	25°	14206.3	14733.2	15082.9	15979.1	17077.2	17274.1	17293.8	17288.9	17185.5
13369.2	27.5°	13546.5	13664.7	14570.7	15117.3	16387.8	17136.2	17106.7	16963.9	16826.0
12428.7	30°	12704.5	13241.2	13649.9	14521.5	15496.5	16712.8	16712.8	16604.4	16461.6
12093.9	32.5°	12276.1	12970.4	13349.5	13664.7	14496.9	16240.0	16437.0	16323.8	16210.5
11832.9	35°	12049.5	12152.9	13039.3	13324.9	14029.1	15329.1	16126.8	16013.5	15929.8
11138.6	37.5°	11552.2	11793.5	12207.1	12970.4	13187.0	14585.5	15713.2	15654.1	15555.6
10237.4	40°	10444.2	11089.3	11724.5	12448.4	12674.9	13630.2	15210.9	15235.5	15102.6
9277.2	42.5°	9789.3	10227.6	11222.3	11709.8	12320.4	13014.7	14723.4	14762.8	14669.2
8789.7	45°	9021.2	9508.6	10207.9	11094.2	11926.4	12167.7	13861.6	14275.3	14196.5
7819.6	47.5°	8317.0	8710.9	9567.7	10463.9	11384.8	11350.3	12871.9	13649.9	13541.6
7076.1	50°	7317.4	8006.8	8410.5	9232.9	10606.7	10700.3	11818.1	12916.2	12827.6
6012.5	52.5°	6170.0	7036.7	7809.8	8563.2	9818.9	10040.5	10838.2	12167.7	12108.6
4594.3	55°	5392.0	6022.3	6893.9	7499.6	8863.6	9454.5	10104.5	11453.7	11424.2
3776.9	57.5°	3836.0	5052.2	5771.2	6618.1	7337.1	8405.6	8888.2	10001.1	9725.3
2092.8	60°	2600.0	3171.2	4047.7	4958.7	5441.3	6509.8	6957.9	7849.2	7775.3
1250.7	62.5°	1373.9	1900.7	2526.1	2984.1	3333.7	4372.7	4559.8	5520.0	5495.4
502.3	65°	605.7	802.6	1368.9	1605.3	1964.8	2447.3	2609.8	2954.5	2870.8
246.2	67.5°	315.1	477.6	773.1	950.4	1196.6	1378.8	1511.7	1620.1	1689.0
162.5	70°	192.0	349.6	477.6	659.8	822.3	970.1	1073.5	1221.2	1309.8
83.7	72.5°	142.8	221.6	329.9	507.2	595.8	768.2	871.6	979.9	1058.7
68.9	75°	78.8	147.7	265.9	398.9	477.6	625.4	718.9	792.8	817.4
39.4	77.5°	49.2	113.3	221.6	310.2	374.2	507.2	482.6	551.5	610.6
29.5	80°	34.5	83.7	172.3	256.1	261.0	325.0	384.1	443.2	482.6
19.7	82.5°	24.6	68.9	128.0	197.0	172.3	251.1	300.4	344.7	251.1
14.8	85°	19.7	49.2	64.0	118.2	98.5	177.3	152.7	147.7	98.5
9.8	87.5°	14.8	24.6	44.3	54.2	39.4	39.4	49.2	59.1	49.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14457.5
14098.0
14196.5
14280.2
14403.3
14654.4
15077.9
15634.4
16245.0
16757.1
17027.9
16717.7
16407.5
16116.9
15811.6
15457.1
15073.0
14659.4
14206.3
13620.4
12842.3
12148.0
11458.6
9695.8
7780.3
5500.3
2836.3
1689.0
1314.8
1073.5
802.6
620.5
487.5
182.2
98.5
49.2
0.0

(END OF REPORT)