

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: P638867

Luminaire Tested: **EPH-VN-07-E-930-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638867
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-930-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26628.3 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

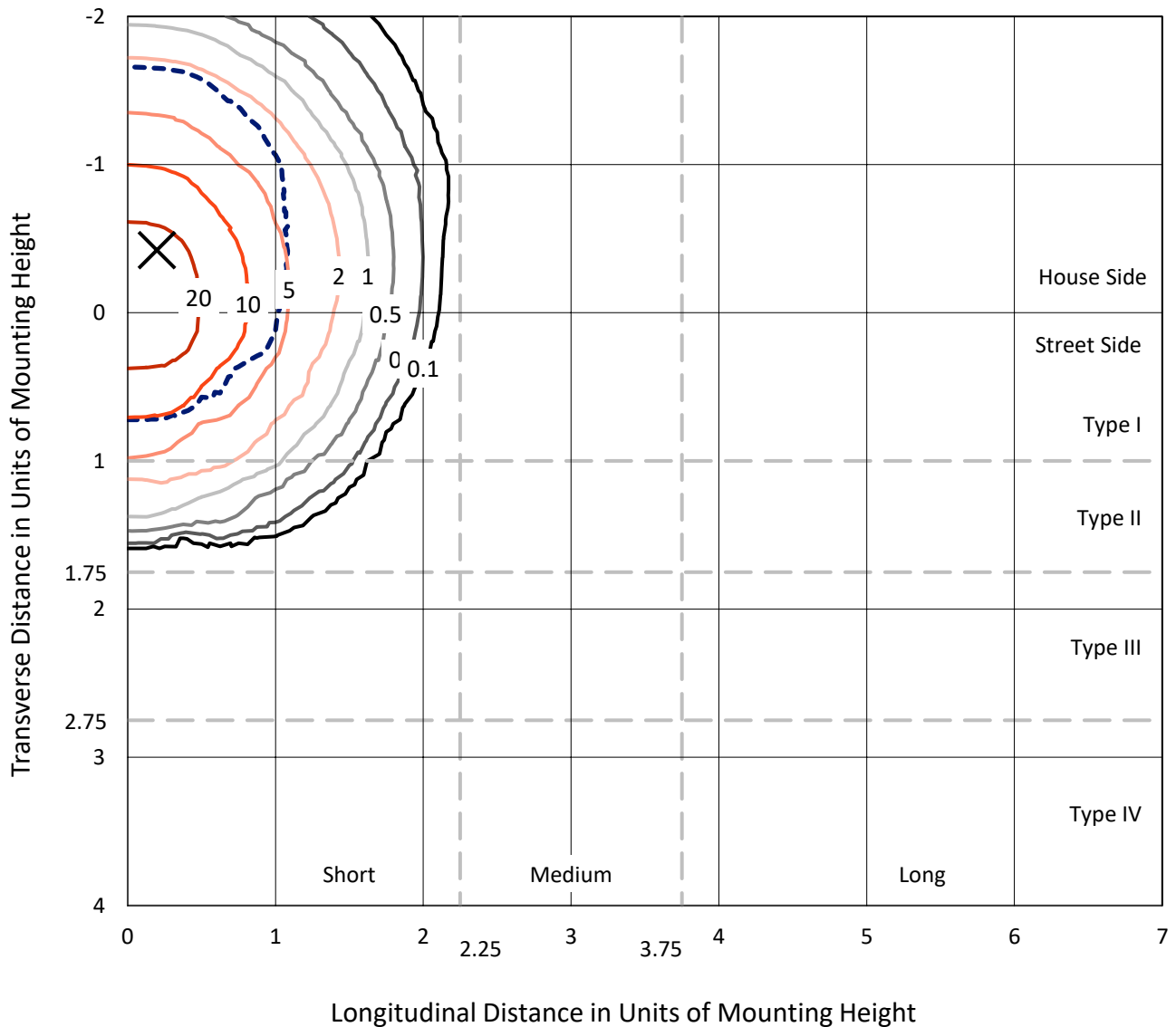
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

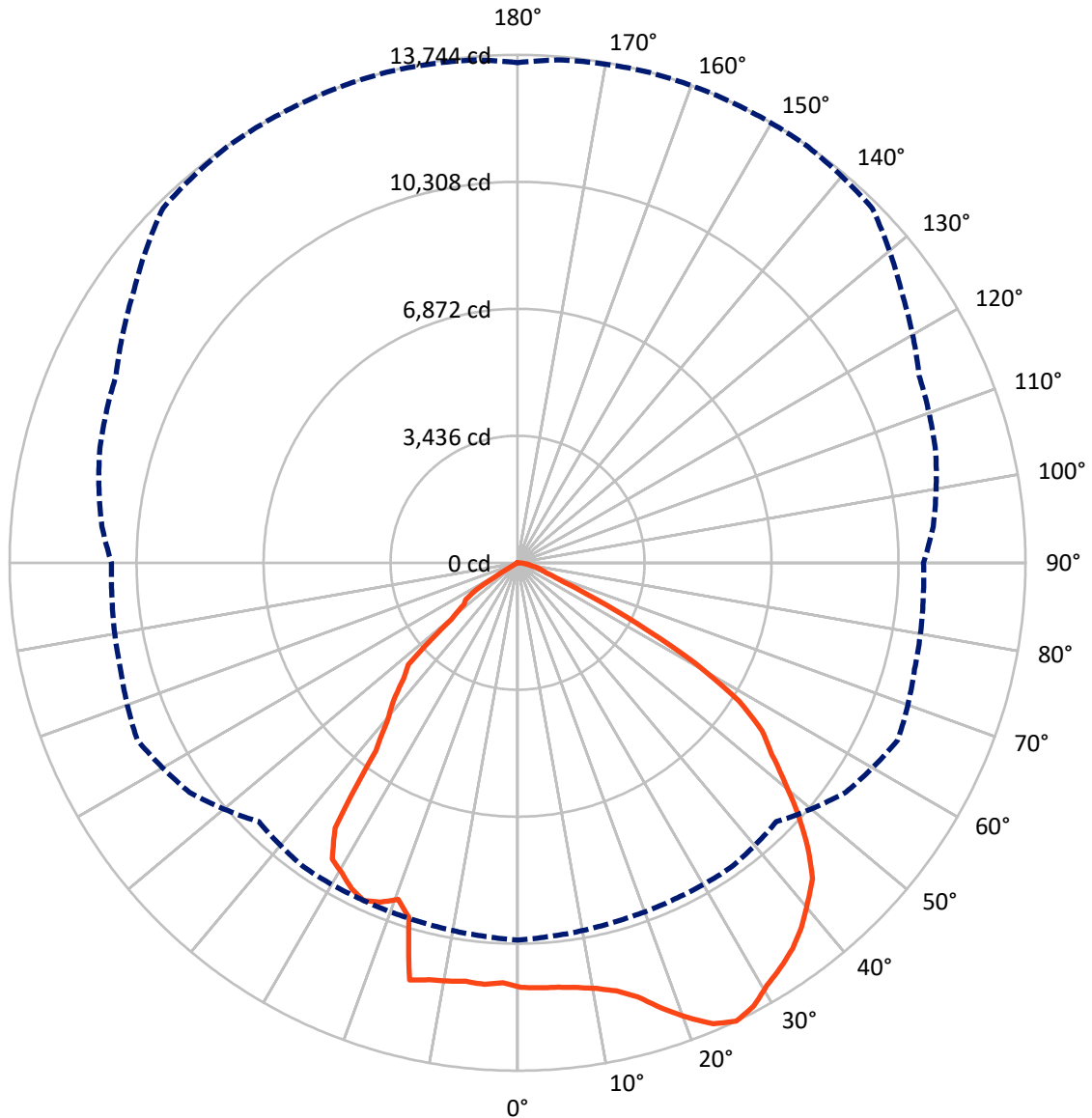
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.7 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
House Side	Lumens	16485.7	0.0	16485.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10142.7	0.0	10142.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	26628.3	0.0	26628.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.3	4.1
10°-20°	3365.8	12.6
20°-30°	5321.1	20.0
30°-40°	6010.6	22.6
40°-50°	5629.1	21.1
50°-60°	3880.8	14.6
60°-70°	1042.7	3.9
70°-80°	217.3	0.8
80°-90°	58.8	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°	26628.3	100.0
0°-180°	26628.3	100.0

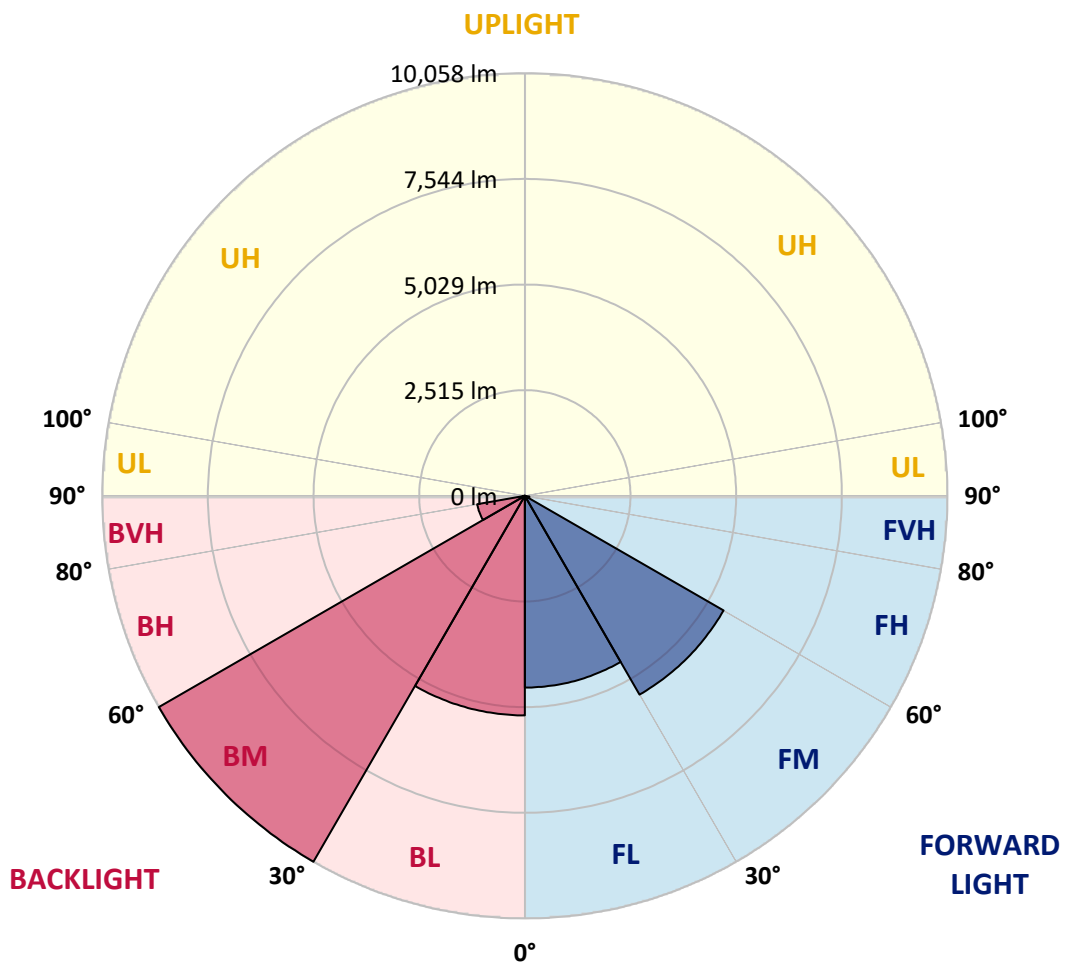


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4563.2	17.1			
FM (30°-60°)	5462.1	20.5			
FH (60°-80°)	109.5	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	5225.9	19.6	B5		
BM (30°-60°)	10058.4	37.8	B5		
BH (60°-80°)	1150.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.9	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°	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7
2.5°	11540.5	11466.2	11395.7	11372.3	11470.1	11575.7	11509.2	11513.1	11489.7	11532.7
5°	11626.6	11524.9	11477.9	11442.7	11458.3	11567.9	11474.0	11509.2	11470.1	11521.0
7.5°	11595.3	11524.9	11477.9	11411.4	11462.3	11591.4	11501.4	11505.3	11485.7	11532.7
10°	11575.7	11524.9	11466.2	11474.0	11532.7	11642.3	11571.8	11611.0	11583.6	11611.0
12.5°	11622.7	11567.9	11536.6	11536.6	11587.5	11712.7	11677.5	11712.7	11701.0	11724.5
15°	11180.5	11231.4	11528.8	11661.8	11763.6	11888.8	11873.2	11908.4	11916.2	11951.4
17.5°	9431.2	9380.3	9356.9	10041.7	11861.4	12248.8	12237.1	12233.2	12194.1	12166.7
20°	9662.1	9642.5	9615.1	9666.0	9869.5	12436.7	12515.0	12033.6	11892.7	11881.0
22.5°	10030.0	9998.7	9896.9	9900.8	9963.4	10812.6	12127.5	11689.2	11642.3	11614.9
25°	10210.0	10147.4	10065.2	10041.7	10061.3	9904.7	10832.2	11352.7	11121.8	11016.1
27.5°	9893.0	9896.9	9830.4	9893.0	9818.6	9114.2	8719.0	10695.2	10687.4	10640.5
30°	9654.3	9642.5	9564.3	9642.5	9129.9	8343.3	8175.0	9975.2	9893.0	9830.4
32.5°	8922.5	8930.3	9157.3	9462.5	8621.2	7998.9	7490.2	8910.7	9689.5	9654.3
35°	6382.7	6398.4	7204.5	8711.2	7850.2	7314.1	7275.0	7701.5	9368.6	9384.3
37.5°	6144.0	6144.0	6124.4	6371.0	7243.6	7036.2	7114.5	7071.5	8582.0	8621.2
40°	5971.8	5936.6	5909.2	5521.8	5036.5	6840.6	6895.4	6699.7	8112.4	8120.2
42.5°	5764.4	5725.3	5733.1	5016.9	4508.2	6355.3	6202.7	5940.5	7329.7	7337.6
45°	5384.8	5451.3	5498.3	4390.8	4351.7	4539.5	5721.3	5557.0	6801.4	6946.2
47.5°	2739.4	2798.1	4293.0	4038.6	4128.6	4034.7	4833.0	4836.9	5658.7	6140.1
50°	2485.0	2469.3	2473.2	2355.8	3811.6	3263.8	3494.6	4433.8	4531.7	5220.4
52.5°	2316.7	2312.8	2074.1	1843.2	2395.0	2872.4	2535.9	3209.0	3369.4	4422.1
55°	1714.1	1839.3	1635.8	1733.6	1498.8	2301.1	2289.3	2895.9	2950.7	3545.5
57.5°	15.7	19.6	47.0	1318.8	1037.0	1150.5	1581.0	1976.3	2074.1	2762.8
60°	3.9	7.8	19.6	39.1	673.1	708.3	1056.6	1142.7	1287.5	1647.5
62.5°	0.0	0.0	7.8	19.6	35.2	289.6	336.5	367.9	567.4	841.4
65°	0.0	0.0	3.9	11.7	19.6	47.0	82.2	172.2	246.5	305.2
67.5°	0.0	0.0	3.9	7.8	15.7	23.5	47.0	66.5	105.7	180.0
70°	0.0	0.0	3.9	7.8	11.7	19.6	31.3	47.0	62.6	90.0
72.5°	0.0	0.0	3.9	7.8	7.8	23.5	23.5	35.2	47.0	58.7
75°	0.0	0.0	3.9	3.9	7.8	15.7	23.5	27.4	31.3	47.0
77.5°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	31.3	27.4	27.4
80°	0.0	0.0	3.9	11.7	11.7	19.6	23.5	31.3	19.6	19.6
82.5°	0.0	0.0	3.9	15.7	11.7	39.1	39.1	43.0	15.7	15.7
85°	0.0	0.0	11.7	7.8	23.5	39.1	35.2	23.5	19.6	11.7
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	27.4	23.5	7.8	7.8
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°
11489.7	0°	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7	11489.7
11419.2	2.5°	11575.7	11524.9	11630.5	11618.8	11567.9	11544.4	11517.0	11493.6	11321.4
11427.0	5°	11579.7	11501.4	11630.5	11607.1	11599.2	11560.1	11536.6	11571.8	11415.3
11458.3	7.5°	11579.7	11501.4	11642.3	11650.1	11638.4	11607.1	11603.1	11626.6	11497.5
11513.1	10°	11657.9	11626.6	11744.0	11755.8	11740.1	11732.3	11712.7	11697.1	11560.1
11701.0	12.5°	11822.3	11759.7	11892.7	11928.0	11916.2	11935.8	11888.8	11912.3	11771.4
11892.7	15°	12021.9	12025.8	12127.5	12205.8	12198.0	12260.6	12190.1	12252.8	12151.0
12111.9	17.5°	12327.1	12370.2	12515.0	12632.4	12675.4	12722.4	12675.4	12695.0	12550.2
11869.2	20°	12006.2	12166.7	12863.2	13078.5	13168.5	13211.5	13133.3	13156.7	13012.0
11571.8	22.5°	11716.6	11924.0	12542.3	13215.4	13493.3	13579.4	13552.0	13548.1	13493.3
10984.8	25°	11290.1	11708.8	11986.7	12698.9	13571.6	13728.1	13743.8	13739.8	13657.7
10624.8	27.5°	10765.7	10859.6	11579.7	12014.0	13023.7	13618.5	13595.0	13481.6	13372.0
9877.3	30°	10096.5	10523.1	10847.9	11540.5	12315.4	13282.0	13282.0	13195.9	13082.4
9611.2	32.5°	9756.0	10307.8	10609.1	10859.6	11521.0	12906.3	13062.8	12972.8	12882.8
9403.8	35°	9576.0	9658.2	10362.6	10589.6	11149.2	12182.3	12816.3	12726.3	12659.8
8852.0	37.5°	9180.8	9372.5	9701.2	10307.8	10480.0	11591.4	12487.6	12440.6	12362.3
8135.9	40°	8300.3	8812.9	9317.7	9893.0	10073.0	10832.2	12088.4	12108.0	12002.3
7372.8	42.5°	7779.8	8128.1	8918.6	9306.0	9791.3	10343.0	11701.0	11732.3	11657.9
6985.4	45°	7169.3	7556.7	8112.4	8816.8	9478.2	9669.9	11016.1	11344.9	11282.2
6214.4	47.5°	6609.7	6922.8	7603.7	8315.9	9047.7	9020.3	10229.5	10847.9	10761.8
5623.5	50°	5815.3	6363.1	6684.0	7337.6	8429.4	8503.8	9392.1	10264.8	10194.3
4778.2	52.5°	4903.5	5592.2	6206.6	6805.3	7803.3	7979.4	8613.3	9669.9	9623.0
3651.2	55°	4285.1	4786.1	5478.7	5960.1	7044.1	7513.7	8030.2	9102.5	9079.0
3001.6	57.5°	3048.5	4015.1	4586.5	5259.6	5830.9	6680.1	7063.6	7948.1	7728.9
1663.2	60°	2066.3	2520.2	3216.8	3940.8	4324.3	5173.5	5529.6	6237.9	6179.2
994.0	62.5°	1091.8	1510.6	2007.6	2371.5	2649.4	3475.1	3623.8	4386.9	4367.3
399.2	65°	481.3	637.9	1087.9	1275.8	1561.4	1944.9	2074.1	2348.0	2281.5
195.7	67.5°	250.5	379.6	614.4	755.3	950.9	1095.7	1201.4	1287.5	1342.3
129.1	70°	152.6	277.8	379.6	524.4	653.5	770.9	853.1	970.5	1041.0
66.5	72.5°	113.5	176.1	262.2	403.1	473.5	610.5	692.7	778.8	841.4
54.8	75°	62.6	117.4	211.3	317.0	379.6	497.0	571.4	630.1	649.6
31.3	77.5°	39.1	90.0	176.1	246.5	297.4	403.1	383.5	438.3	485.3
23.5	80°	27.4	66.5	137.0	203.5	207.4	258.3	305.2	352.2	383.5
15.7	82.5°	19.6	54.8	101.7	156.5	137.0	199.6	238.7	273.9	199.6
11.7	85°	15.7	39.1	50.9	93.9	78.3	140.9	121.3	117.4	78.3
7.8	87.5°	11.7	19.6	35.2	43.0	31.3	31.3	39.1	47.0	39.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11489.7
11204.0
11282.2
11348.8
11446.6
11646.2
11982.7
12424.9
12910.2
13317.2
13532.4
13285.9
13039.3
12808.5
12565.8
12284.1
11978.8
11650.1
11290.1
10824.4
10206.1
9654.3
9106.4
7705.4
6183.1
4371.2
2254.1
1342.3
1044.9
853.1
637.9
493.1
387.4
144.8
78.3
39.1
0.0

(END OF REPORT)