

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: P638663

Luminaire Tested: **EPH-VN-07-E-940-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638663  
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-940-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39343 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

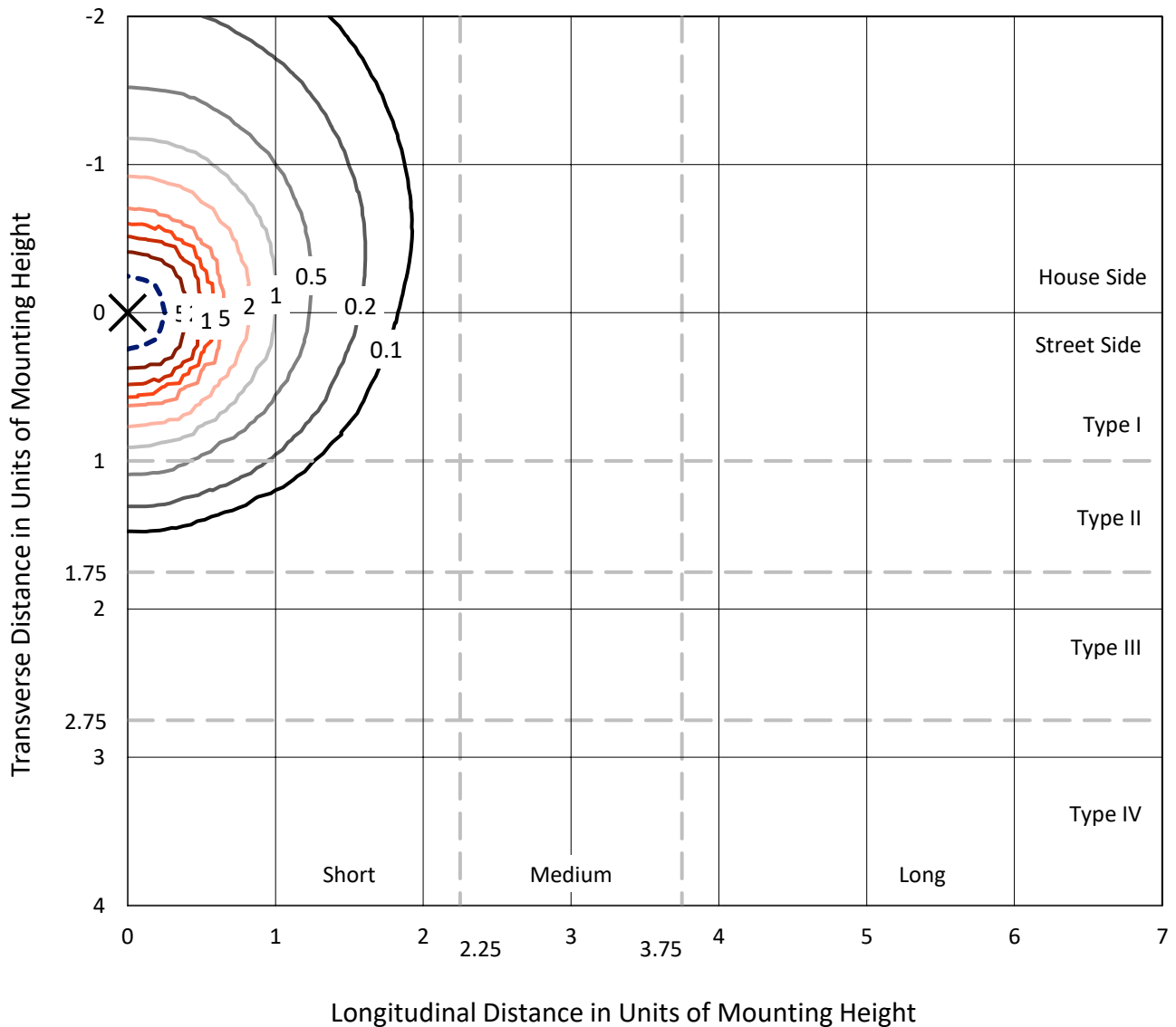
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638663  
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### Iso-Footcandle Lines of Horizontal Illumination

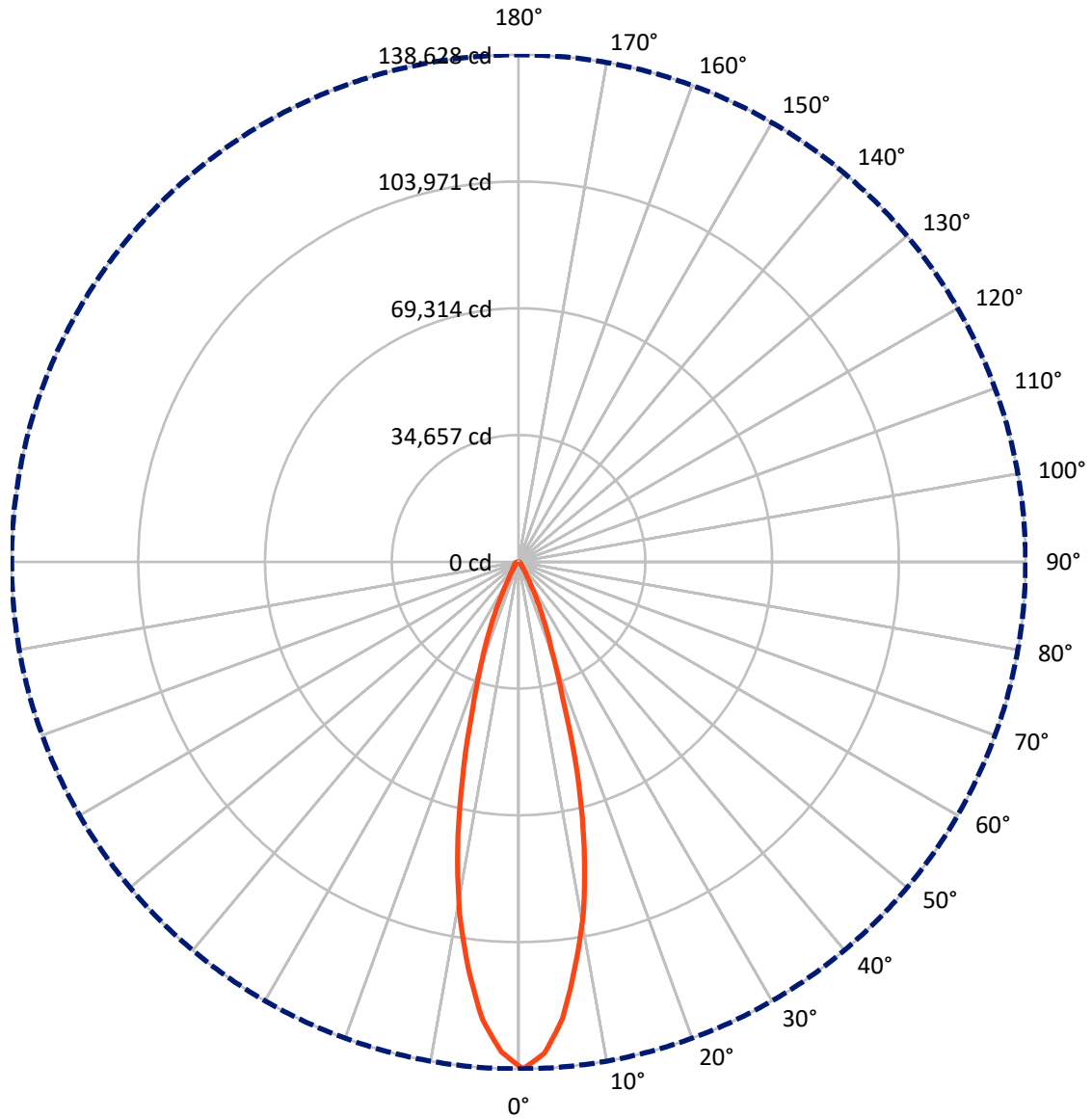
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 346.6 fc  
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-07-E-940-U-44-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20744.3	0.0	20744.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	18598.7	0.0	18598.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	39343.0	0.0	39343.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11188.5	28.4
10°-20°	16944.9	43.1
20°-30°	7150.8	18.2
30°-40°	1865.0	4.7
40°-50°	943.3	2.4
50°-60°	616.6	1.6
60°-70°	369.4	0.9
70°-80°	194.3	0.5
80°-90°	70.2	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°	39343.0	100.0
0°-180°	39343.0	100.0

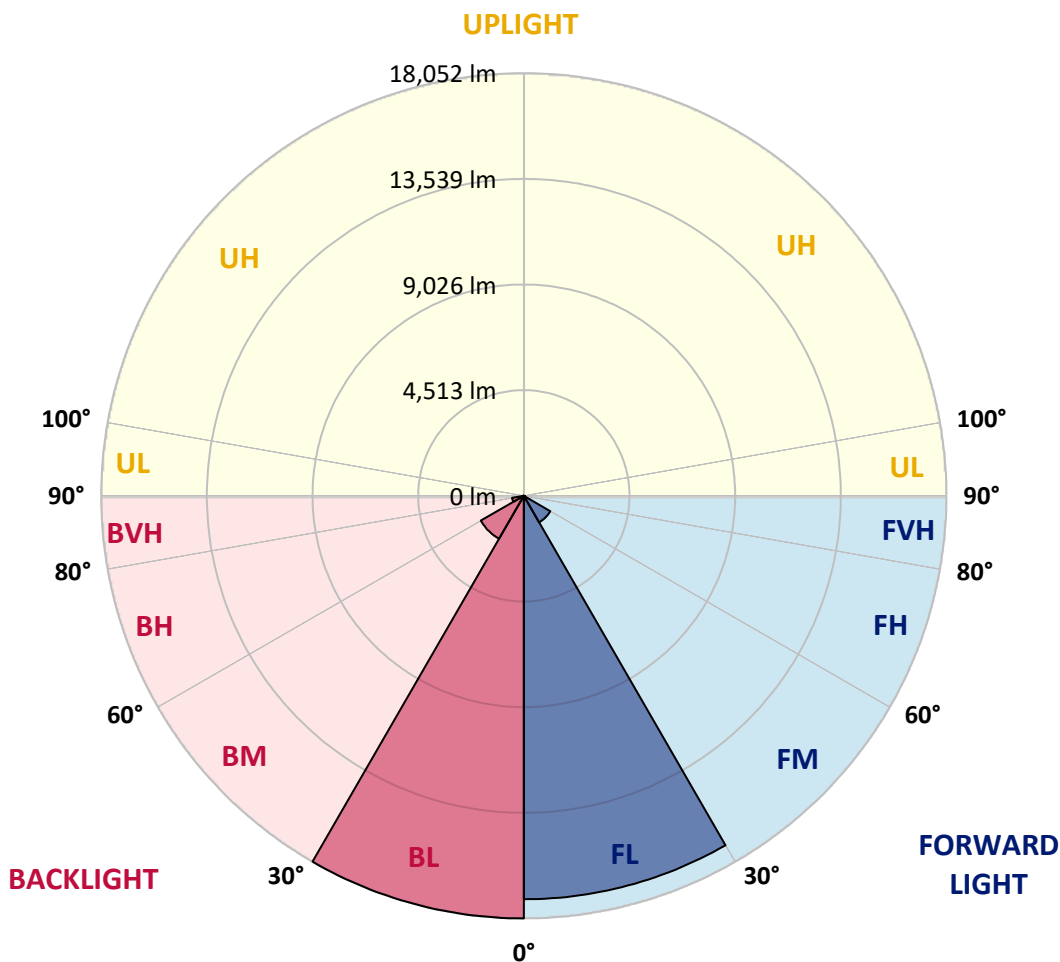


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17232.0	43.8			
FM (30°-60°)	1305.0	3.3			
FH (60°-80°)	53.2	0.1			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	18052.2	45.9	B5		
BM (30°-60°)	2119.8	5.4	B2/2500		
BH (60°-80°)	510.5	1.3	B2/1000		G0/660
BVH (80°-90°)	61.7	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	138627.7	138627.7	138627.7	138627.7	138627.7	138627.7	138627.7	138627.7	138627.7	138627.7
2.5°	134589.4	134664.5	134386.2	134987.1	134518.7	135773.5	135150.6	136122.6	135795.6	136339.1
5°	125399.4	125275.7	125196.2	126128.4	125858.9	127206.5	126344.9	126062.2	126937.0	126777.9
7.5°	111521.6	111848.6	111663.0	111906.0	112043.0	113580.5	114066.6	113686.6	113699.8	113920.8
10°	97294.8	96813.2	96128.4	96583.5	97546.6	98218.2	97948.7	98505.4	98381.7	98907.5
12.5°	79789.6	80169.6	79785.2	79378.7	81062.1	80876.5	81344.8	81649.7	80885.3	82586.4
15°	60101.8	60300.6	60768.9	60738.0	62032.6	62293.2	62231.4	62553.9	61957.4	62240.2
17.5°	38611.3	39282.9	40542.1	42671.7	45066.4	45344.7	45274.0	45008.9	44721.8	44403.6
20°	25935.3	25864.6	26319.7	26942.6	31899.9	33212.2	33172.4	32341.8	31140.0	30910.2
22.5°	18167.9	18300.5	18238.6	18857.2	19882.2	23500.8	23054.5	22210.7	21817.4	21561.2
25°	11951.4	11902.8	12212.1	12397.7	13276.9	13718.7	15282.8	14969.1	14363.8	14430.1
27.5°	7285.7	7347.6	7462.5	7621.5	8244.5	8103.1	8995.6	9114.9	8920.5	8712.8
30°	4471.3	4515.5	4608.3	4723.1	4939.6	4785.0	5032.4	5461.0	5390.3	5244.5
32.5°	3035.4	3039.8	3106.0	3150.2	3123.7	2977.9	3057.4	3463.9	3472.8	3459.5
35°	2182.6	2182.6	2244.5	2279.8	2204.7	2085.4	2098.7	2350.5	2461.0	2483.1
37.5°	1506.6	1511.0	1617.1	1723.1	1639.2	1608.3	1555.2	1723.1	1899.9	1926.4
40°	1144.3	1139.9	1192.9	1272.5	1281.3	1223.9	1241.5	1347.6	1528.7	1550.8
42.5°	927.8	932.3	958.8	949.9	954.3	1029.5	1056.0	1104.6	1272.5	1312.2
45°	782.0	786.5	799.7	755.5	737.9	852.7	888.1	914.6	1056.0	1104.6
47.5°	645.1	653.9	667.2	618.6	609.7	684.8	746.7	773.2	896.9	949.9
50°	463.9	472.8	521.4	494.8	521.4	539.0	623.0	662.7	746.7	817.4
52.5°	335.8	344.6	357.9	362.3	428.6	437.4	499.3	561.1	600.9	680.4
55°	265.1	273.9	265.1	256.3	313.7	362.3	384.4	450.7	481.6	574.4
57.5°	150.2	159.1	172.3	198.8	207.7	278.4	300.4	357.9	384.4	472.8
60°	26.5	30.9	48.6	119.3	145.8	176.7	225.3	273.9	309.3	371.1
62.5°	4.4	4.4	8.8	26.5	83.9	123.7	163.5	194.4	225.3	282.8
65°	0.0	0.0	4.4	8.8	22.1	70.7	88.4	114.9	154.6	203.2
67.5°	0.0	0.0	4.4	8.8	13.3	26.5	39.8	70.7	88.4	137.0
70°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	30.9	53.0	83.9
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	26.5	26.5	53.0
75°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	26.5	22.1	22.1
77.5°	0.0	0.0	4.4	8.8	17.7	26.5	30.9	26.5	17.7	17.7
80°	0.0	0.0	8.8	13.3	22.1	30.9	39.8	30.9	17.7	8.8
82.5°	0.0	0.0	8.8	17.7	22.1	35.3	48.6	39.8	17.7	8.8
85°	0.0	0.0	4.4	13.3	26.5	35.3	48.6	35.3	17.7	4.4
87.5°	0.0	0.0	4.4	4.4	8.8	13.3	26.5	22.1	8.8	4.4
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°
<b>138627.7</b>	0°	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>	<b>138627.7</b>
135309.6	2.5°	136087.2	136794.2	136940.0	136745.6	137028.3	136520.2	136131.4	135124.1	134518.7
126729.3	5°	127546.7	127440.7	128178.5	128421.5	128390.6	128001.8	127458.3	126848.6	126256.6
113492.2	7.5°	114199.1	114336.1	115007.7	115436.2	115219.7	114733.7	114358.2	113898.7	113501.0
99097.5	10°	100003.2	99062.1	99897.2	99897.2	100476.0	99101.9	99230.0	98072.4	98125.4
82555.4	12.5°	82838.2	83178.4	83315.4	83708.6	83032.6	82303.6	81411.1	81234.4	80682.1
61701.2	15°	62589.3	63561.3	62726.2	64153.3	63464.1	62704.1	62567.2	61197.5	61630.5
44752.7	17.5°	44531.8	45605.4	45941.2	46758.6	46131.2	45680.5	45110.6	44695.3	44664.3
31330.0	20°	31577.4	32655.5	32902.9	33883.7	33813.0	33671.7	33190.1	32664.3	32094.3
21327.0	22.5°	21649.5	22528.8	23350.6	24671.6	24649.5	24234.2	24185.6	23443.4	23456.6
14408.0	25°	14558.2	15198.9	15393.3	16745.3	16895.5	16851.3	16599.5	15910.2	16170.9
8801.2	27.5°	8810.0	9371.2	10029.5	10506.7	10957.3	10886.6	10634.8	10250.4	10082.5
5288.7	30°	5430.1	5681.9	5924.9	6499.3	6768.8	6910.2	6790.9	6433.0	6459.5
3481.6	32.5°	3556.7	3768.8	3945.5	4307.8	4449.2	4709.9	4661.3	4586.2	4497.8
2505.2	35°	2593.5	2748.2	2867.5	3035.4	3216.5	3437.4	3472.8	3441.8	3406.5
1935.2	37.5°	1979.4	2138.4	2275.4	2346.1	2487.5	2659.8	2757.0	2752.6	2726.1
1577.3	40°	1608.3	1727.5	1851.3	1944.0	2041.2	2169.4	2288.7	2301.9	2301.9
1325.5	42.5°	1343.2	1444.8	1568.5	1665.7	1736.4	1855.7	1979.4	1988.2	1979.4
1122.2	45°	1148.8	1237.1	1356.4	1471.3	1528.7	1617.1	1736.4	1762.9	1745.2
963.2	47.5°	998.5	1078.1	1179.7	1303.4	1365.2	1444.8	1555.2	1586.2	1581.7
830.6	50°	857.1	949.9	1051.5	1153.2	1232.7	1307.8	1413.8	1449.2	1435.9
706.9	52.5°	755.5	839.5	927.8	1038.3	1131.1	1197.4	1281.3	1343.2	1325.5
596.5	55°	631.8	733.4	826.2	919.0	1033.9	1104.6	1184.1	1259.2	1241.5
503.7	57.5°	547.9	631.8	737.9	821.8	936.7	1020.6	1100.2	1179.7	1175.3
410.9	60°	459.5	547.9	649.5	737.9	843.9	936.7	1016.2	1104.6	1113.4
309.3	62.5°	362.3	468.3	556.7	658.3	764.4	866.0	936.7	1025.0	1038.3
234.2	65°	273.9	384.4	481.6	578.8	684.8	795.3	857.1	932.3	945.5
172.3	67.5°	203.2	296.0	410.9	499.3	609.7	715.8	773.2	835.1	857.1
106.0	70°	154.6	225.3	344.6	428.6	543.4	627.4	689.3	742.3	759.9
70.7	72.5°	97.2	176.7	278.4	366.7	468.3	543.4	587.6	618.6	645.1
39.8	75°	66.3	137.0	225.3	313.7	388.8	446.2	486.0	512.5	534.6
17.7	77.5°	39.8	106.0	185.6	260.7	309.3	353.5	393.2	410.9	424.2
13.3	80°	22.1	79.5	154.6	212.1	243.0	273.9	304.9	327.0	335.8
8.8	82.5°	13.3	61.9	123.7	163.5	176.7	207.7	238.6	251.8	251.8
4.4	85°	8.8	44.2	83.9	119.3	128.1	150.2	159.1	167.9	176.7
4.4	87.5°	8.8	26.5	53.0	66.3	70.7	79.5	83.9	92.8	101.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
138627.7  
134072.5  
125593.8  
112153.4  
97608.5  
80178.4  
61197.5  
43842.5  
31846.9  
23200.4  
15760.0  
9936.7  
6344.6  
4466.9  
3393.2  
2712.8  
2275.4  
1970.5  
1745.2  
1572.9  
1427.1  
1321.1  
1250.4  
1179.7  
1117.8  
1047.1  
958.8  
866.0  
768.8  
640.6  
530.2  
419.7  
327.0  
247.4  
172.3  
97.2  
0.0

(END OF REPORT)