

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: P638651

Luminaire Tested: **EPH-VN-07-E-930-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638651  
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-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34845.7 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

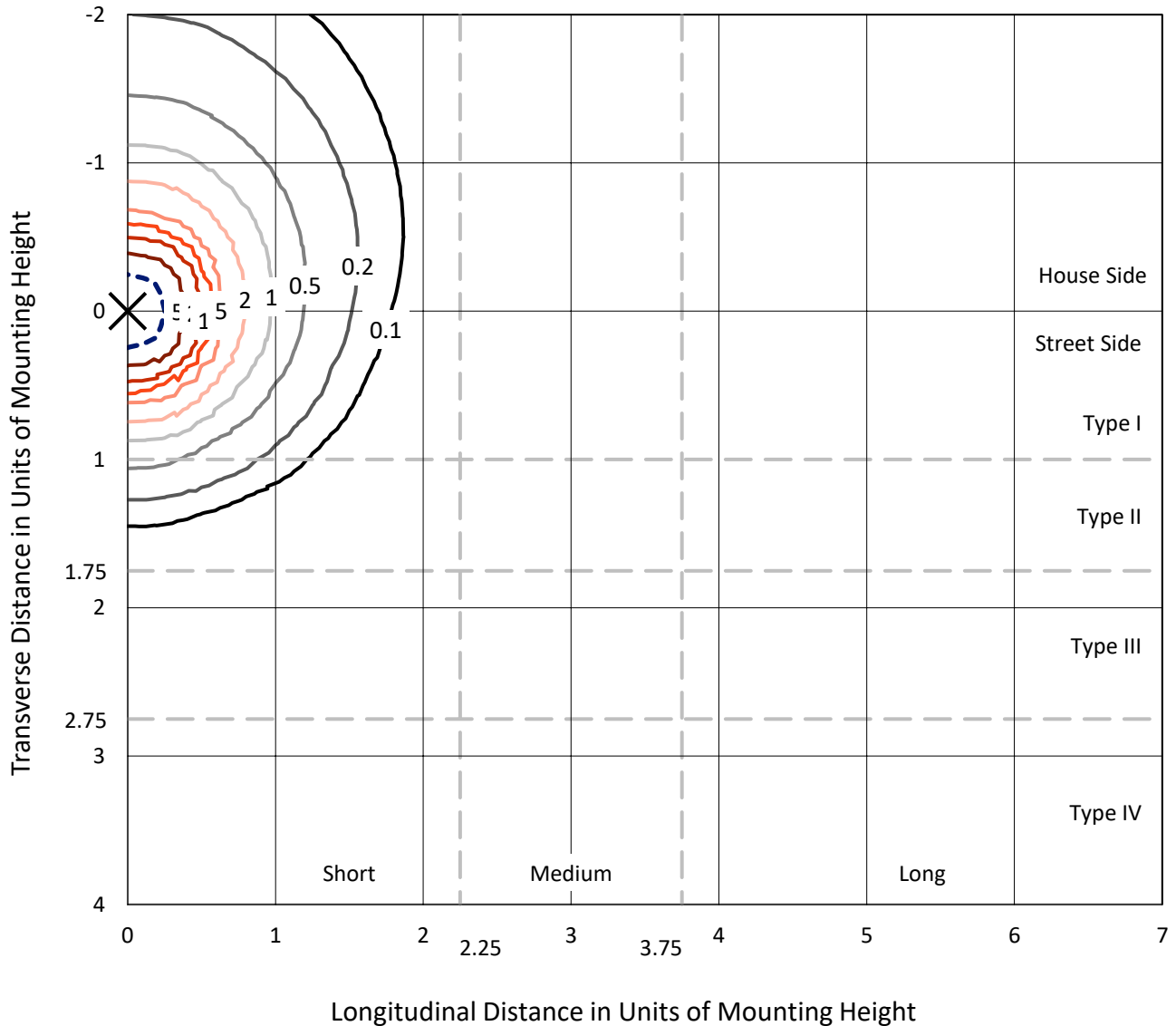
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

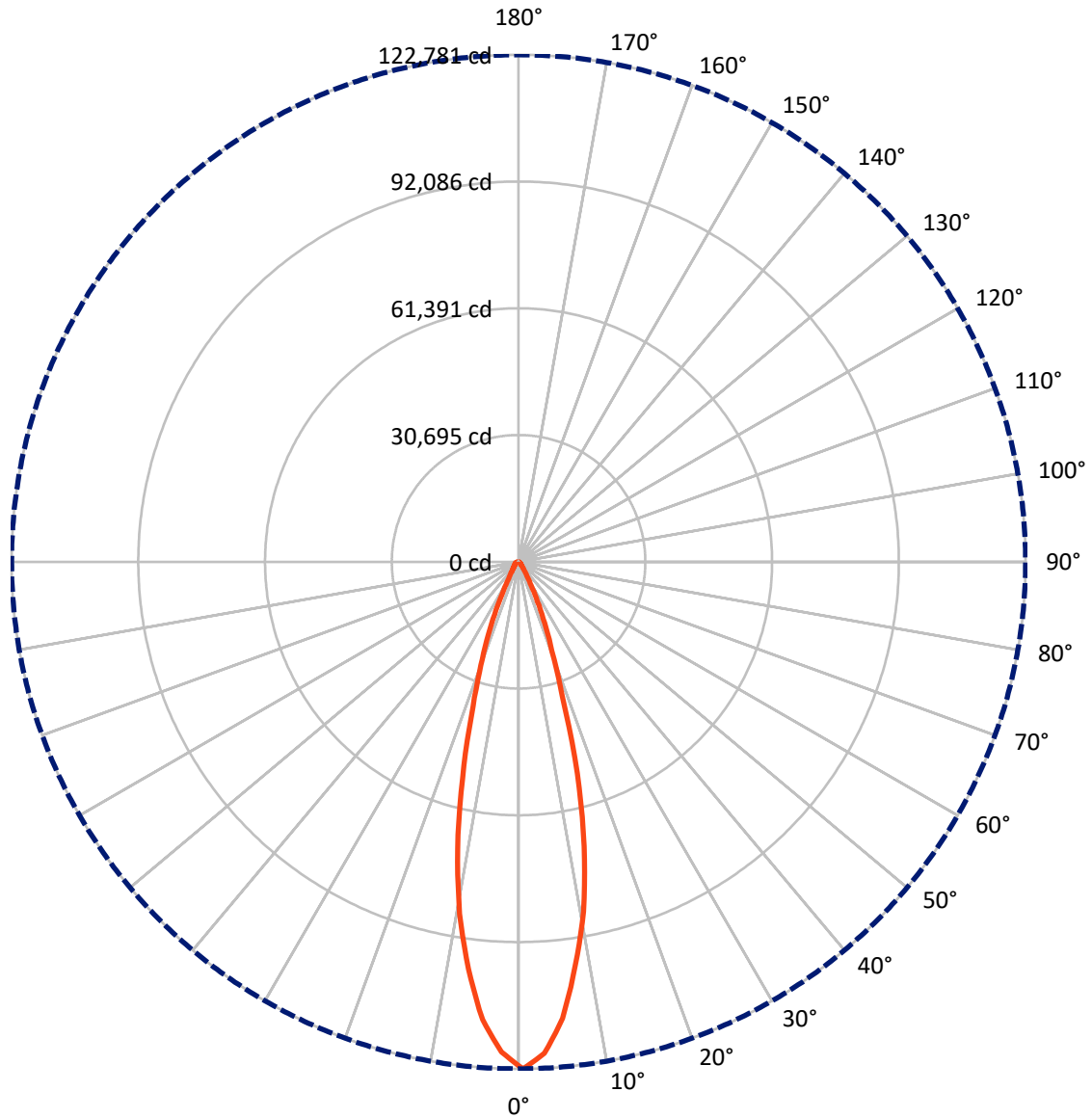
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 307 fc  
 Type V - Short - N/A

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### 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	18373.0	0.0	18373.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16472.7	0.0	16472.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	34845.7	0.0	34845.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9909.5	28.4
10°-20°	15007.9	43.1
20°-30°	6333.4	18.2
30°-40°	1651.8	4.7
40°-50°	835.5	2.4
50°-60°	546.1	1.6
60°-70°	327.2	0.9
70°-80°	172.1	0.5
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°	34845.7	100.0
0°-180°	34845.7	100.0

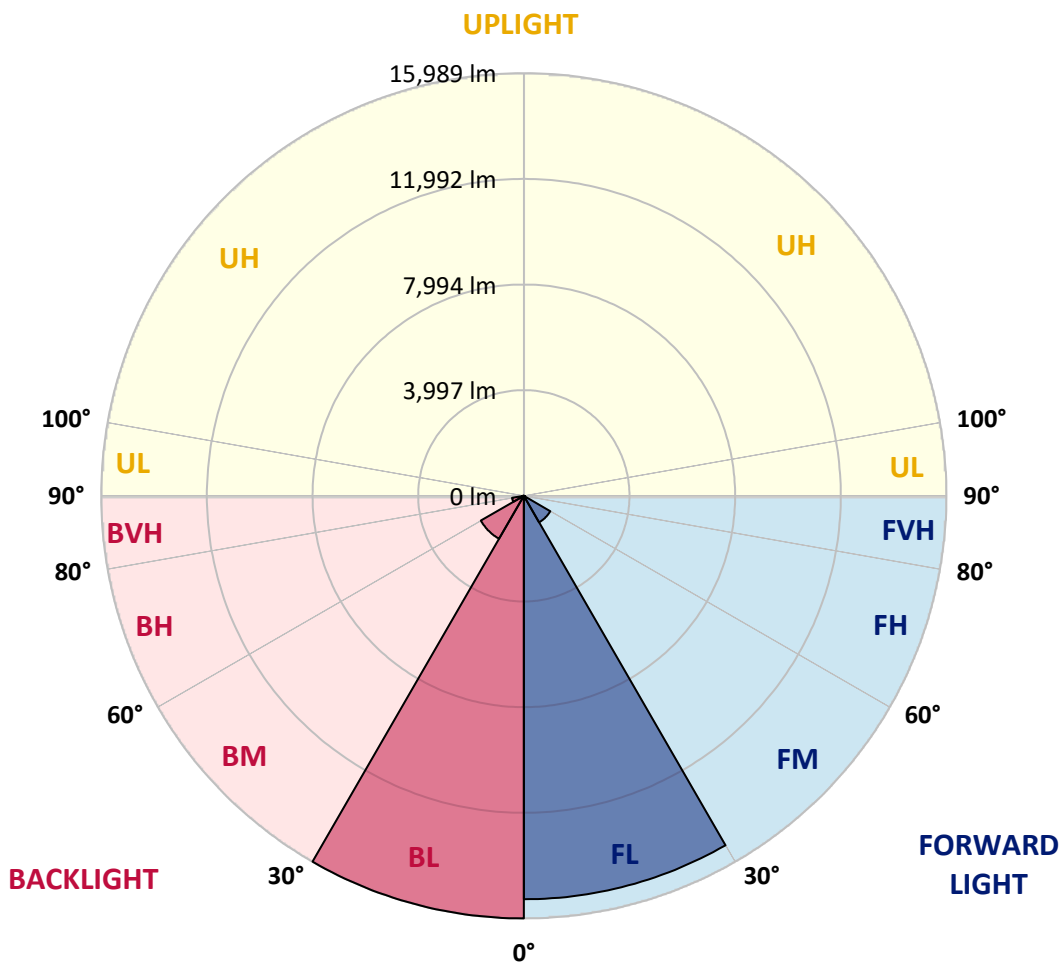


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15262.2	43.8			
FM (30°-60°)	1155.8	3.3			
FH (60°-80°)	47.1	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	15988.7	45.9	B5		
BM (30°-60°)	1877.5	5.4	B2/2500		
BH (60°-80°)	452.2	1.3	B1/500		G0/660
BVH (80°-90°)	54.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	122781.3	122781.3	122781.3	122781.3	122781.3	122781.3	122781.3	122781.3	122781.3	122781.3
2.5°	119204.6	119271.1	119024.6	119556.8	119142.0	120253.3	119701.6	120562.5	120272.9	120754.2
5°	111065.1	110955.5	110885.1	111710.8	111472.1	112665.6	111902.5	111652.1	112426.9	112286.0
7.5°	98773.7	99063.2	98898.9	99114.1	99235.4	100597.2	101027.7	100691.1	100702.9	100898.5
10°	86173.1	85746.5	85140.0	85543.1	86396.1	86990.9	86752.2	87245.3	87135.7	87601.4
12.5°	70668.9	71005.4	70665.0	70305.0	71795.9	71631.5	72046.3	72316.4	71639.4	73146.0
15°	53231.6	53407.7	53822.5	53795.1	54941.6	55172.5	55117.7	55403.4	54875.1	55125.6
17.5°	34197.7	34792.5	35907.7	37793.9	39914.9	40161.4	40098.8	39864.0	39609.6	39327.9
20°	22970.6	22908.0	23311.1	23862.8	28253.5	29415.7	29380.5	28644.8	27580.4	27376.9
22.5°	16091.2	16208.6	16153.8	16701.6	17609.5	20814.4	20419.2	19671.8	19323.5	19096.5
25°	10585.3	10542.2	10816.1	10980.5	11759.2	12150.6	13535.8	13258.0	12721.9	12780.6
27.5°	6452.9	6507.7	6609.4	6750.3	7302.1	7176.9	7967.3	8073.0	7900.8	7716.9
30°	3960.2	3999.3	4081.5	4183.2	4375.0	4238.0	4457.2	4836.7	4774.1	4645.0
32.5°	2688.4	2692.3	2751.0	2790.1	2766.6	2637.5	2708.0	3068.0	3075.8	3064.1
35°	1933.1	1933.1	1987.9	2019.2	1952.7	1847.0	1858.8	2081.8	2179.7	2199.2
37.5°	1334.4	1338.3	1432.2	1526.2	1451.8	1424.4	1377.5	1526.2	1682.7	1706.2
40°	1013.5	1009.6	1056.6	1127.0	1134.8	1084.0	1099.6	1193.5	1354.0	1373.5
42.5°	821.8	825.7	849.2	841.3	845.3	911.8	935.3	978.3	1127.0	1162.2
45°	692.6	696.6	708.3	669.2	653.5	755.3	786.6	810.0	935.3	978.3
47.5°	571.3	579.2	590.9	547.9	540.0	606.5	661.3	684.8	794.4	841.3
50°	410.9	418.7	461.8	438.3	461.8	477.4	551.8	587.0	661.3	723.9
52.5°	297.4	305.2	317.0	320.9	379.6	387.4	442.2	497.0	532.2	602.6
55°	234.8	242.6	234.8	227.0	277.8	320.9	340.5	399.1	426.5	508.7
57.5°	133.0	140.9	152.6	176.1	183.9	246.5	266.1	317.0	340.5	418.7
60°	23.5	27.4	43.0	105.7	129.1	156.5	199.6	242.6	273.9	328.7
62.5°	3.9	3.9	7.8	23.5	74.4	109.6	144.8	172.2	199.6	250.4
65°	0.0	0.0	3.9	7.8	19.6	62.6	78.3	101.7	137.0	180.0
67.5°	0.0	0.0	3.9	7.8	11.7	23.5	35.2	62.6	78.3	121.3
70°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	27.4	47.0	74.4
72.5°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	23.5	23.5	47.0
75°	0.0	0.0	3.9	7.8	11.7	19.6	23.5	23.5	19.6	19.6
77.5°	0.0	0.0	3.9	7.8	15.7	23.5	27.4	23.5	15.7	15.7
80°	0.0	0.0	7.8	11.7	19.6	27.4	35.2	27.4	15.7	7.8
82.5°	0.0	0.0	7.8	15.7	19.6	31.3	43.0	35.2	15.7	7.8
85°	0.0	0.0	3.9	11.7	23.5	31.3	43.0	31.3	15.7	3.9
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	23.5	19.6	7.8	3.9
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>122781.3</b>	0°	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>	<b>122781.3</b>
119842.5	2.5°	120531.2	121157.3	121286.4	121114.2	121364.7	120914.7	120570.3	119678.1	119142.0
112243.0	5°	112966.9	112873.0	113526.5	113741.7	113714.3	113370.0	112888.7	112348.6	111824.3
100519.0	7.5°	101145.1	101266.4	101861.2	102240.8	102049.0	101618.6	101285.9	100879.0	100526.8
87769.7	10°	88571.9	87738.4	88478.0	88478.0	88990.6	87773.6	87887.1	86861.8	86908.8
73118.6	12.5°	73369.0	73670.3	73791.6	74139.9	73541.2	72895.5	72105.0	71948.5	71459.4
54648.2	15°	55434.7	56295.6	55556.0	56820.0	56209.5	55536.5	55415.1	54202.1	54585.5
39637.0	17.5°	39441.4	40392.3	40689.7	41413.6	40858.0	40458.8	39954.0	39586.2	39558.8
27748.7	20°	27967.8	28922.6	29141.8	30010.5	29947.9	29822.7	29396.1	28930.5	28425.7
18889.1	22.5°	19174.8	19953.5	20681.4	21851.4	21831.9	21464.0	21421.0	20763.6	20775.3
12761.0	25°	12894.1	13461.5	13633.7	14831.1	14964.2	14925.0	14702.0	14091.5	14322.4
7795.1	27.5°	7803.0	8299.9	8883.0	9305.6	9704.8	9642.2	9419.1	9078.7	8930.0
4684.1	30°	4809.4	5032.4	5247.6	5756.4	5995.1	6120.3	6014.6	5697.7	5721.1
3083.6	32.5°	3150.1	3338.0	3494.5	3815.4	3940.6	4171.5	4128.5	4061.9	3983.7
2218.8	35°	2297.1	2434.0	2539.7	2688.4	2848.8	3044.5	3075.8	3048.4	3017.1
1714.0	37.5°	1753.1	1894.0	2015.3	2077.9	2203.1	2355.8	2441.9	2437.9	2414.5
1397.0	40°	1424.4	1530.1	1639.6	1721.8	1807.9	1921.4	2027.0	2038.8	2038.8
1174.0	42.5°	1189.6	1279.6	1389.2	1475.3	1537.9	1643.6	1753.1	1761.0	1753.1
994.0	45°	1017.4	1095.7	1201.4	1303.1	1354.0	1432.2	1537.9	1561.4	1545.7
853.1	47.5°	884.4	954.8	1044.8	1154.4	1209.2	1279.6	1377.5	1404.8	1400.9
735.7	50°	759.2	841.3	931.3	1021.4	1091.8	1158.3	1252.2	1283.5	1271.8
626.1	52.5°	669.2	743.5	821.8	919.6	1001.8	1060.5	1134.8	1189.6	1174.0
528.3	55°	559.6	649.6	731.8	814.0	915.7	978.3	1048.7	1115.3	1099.6
446.1	57.5°	485.2	559.6	653.5	727.9	829.6	904.0	974.4	1044.8	1040.9
363.9	60°	407.0	485.2	575.2	653.5	747.4	829.6	900.0	978.3	986.1
273.9	62.5°	320.9	414.8	493.1	583.1	677.0	767.0	829.6	907.9	919.6
207.4	65°	242.6	340.5	426.5	512.6	606.5	704.4	759.2	825.7	837.4
152.6	67.5°	180.0	262.2	363.9	442.2	540.0	633.9	684.8	739.6	759.2
93.9	70°	137.0	199.6	305.2	379.6	481.3	555.7	610.5	657.4	673.1
62.6	72.5°	86.1	156.5	246.5	324.8	414.8	481.3	520.5	547.9	571.3
35.2	75°	58.7	121.3	199.6	277.8	344.4	395.2	430.5	453.9	473.5
15.7	77.5°	35.2	93.9	164.4	230.9	273.9	313.1	348.3	363.9	375.7
11.7	80°	19.6	70.4	137.0	187.8	215.2	242.6	270.0	289.6	297.4
7.8	82.5°	11.7	54.8	109.6	144.8	156.5	183.9	211.3	223.1	223.1
3.9	85°	7.8	39.1	74.4	105.7	113.5	133.0	140.9	148.7	156.5
3.9	87.5°	7.8	23.5	47.0	58.7	62.6	70.4	74.4	82.2	90.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
122781.3  
118746.7  
111237.3  
99333.3  
86450.9  
71013.3  
54202.1  
38830.9  
28206.5  
20548.3  
13958.5  
8800.8  
5619.4  
3956.3  
3005.4  
2402.7  
2015.3  
1745.3  
1545.7  
1393.1  
1264.0  
1170.1  
1107.4  
1044.8  
990.0  
927.4  
849.2  
767.0  
680.9  
567.4  
469.6  
371.8  
289.6  
219.1  
152.6  
86.1  
0.0

(END OF REPORT)