

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: P638633

Luminaire Tested: **EPH-VN-07-E-740-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638633  
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-740-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54446.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

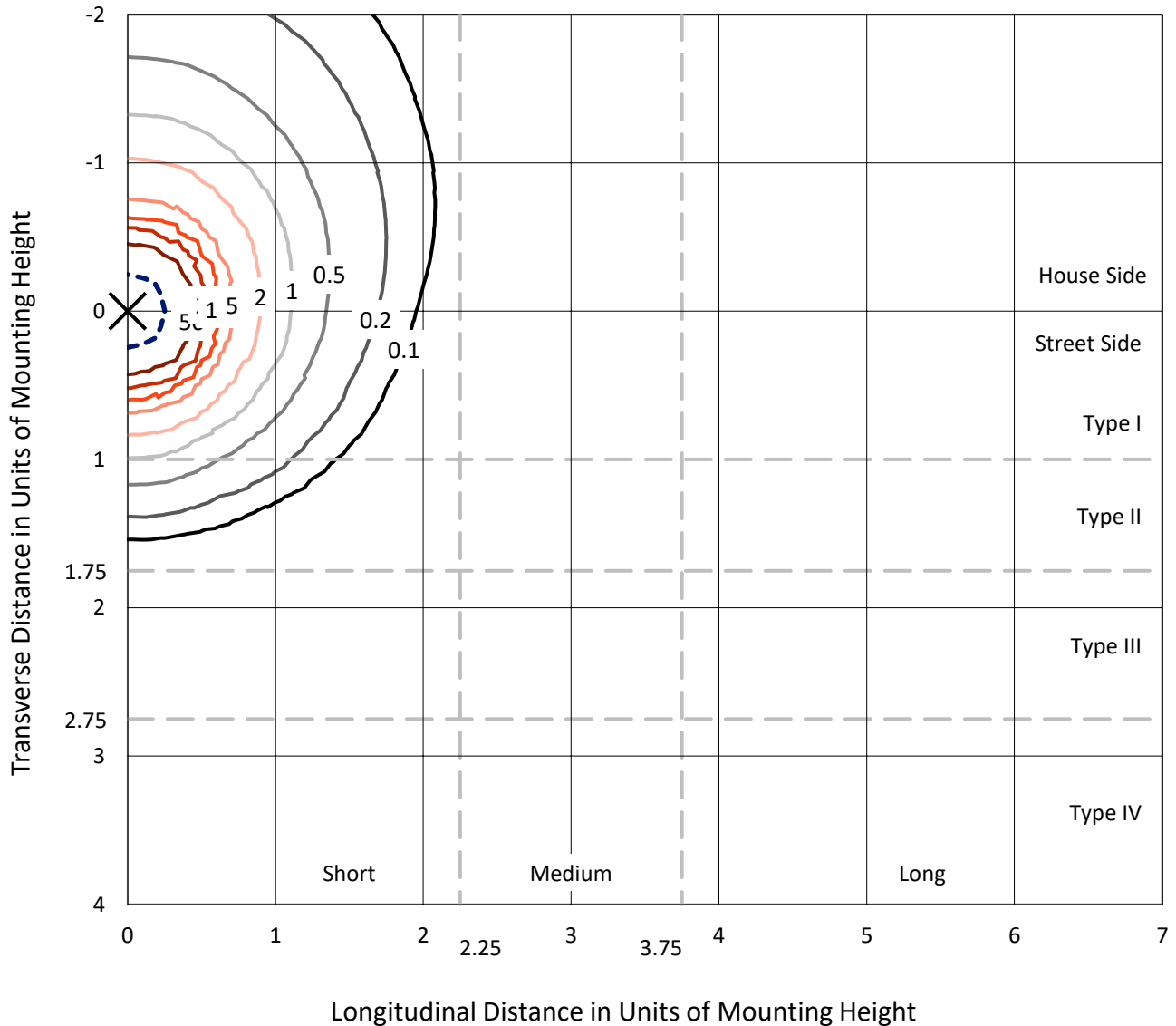
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

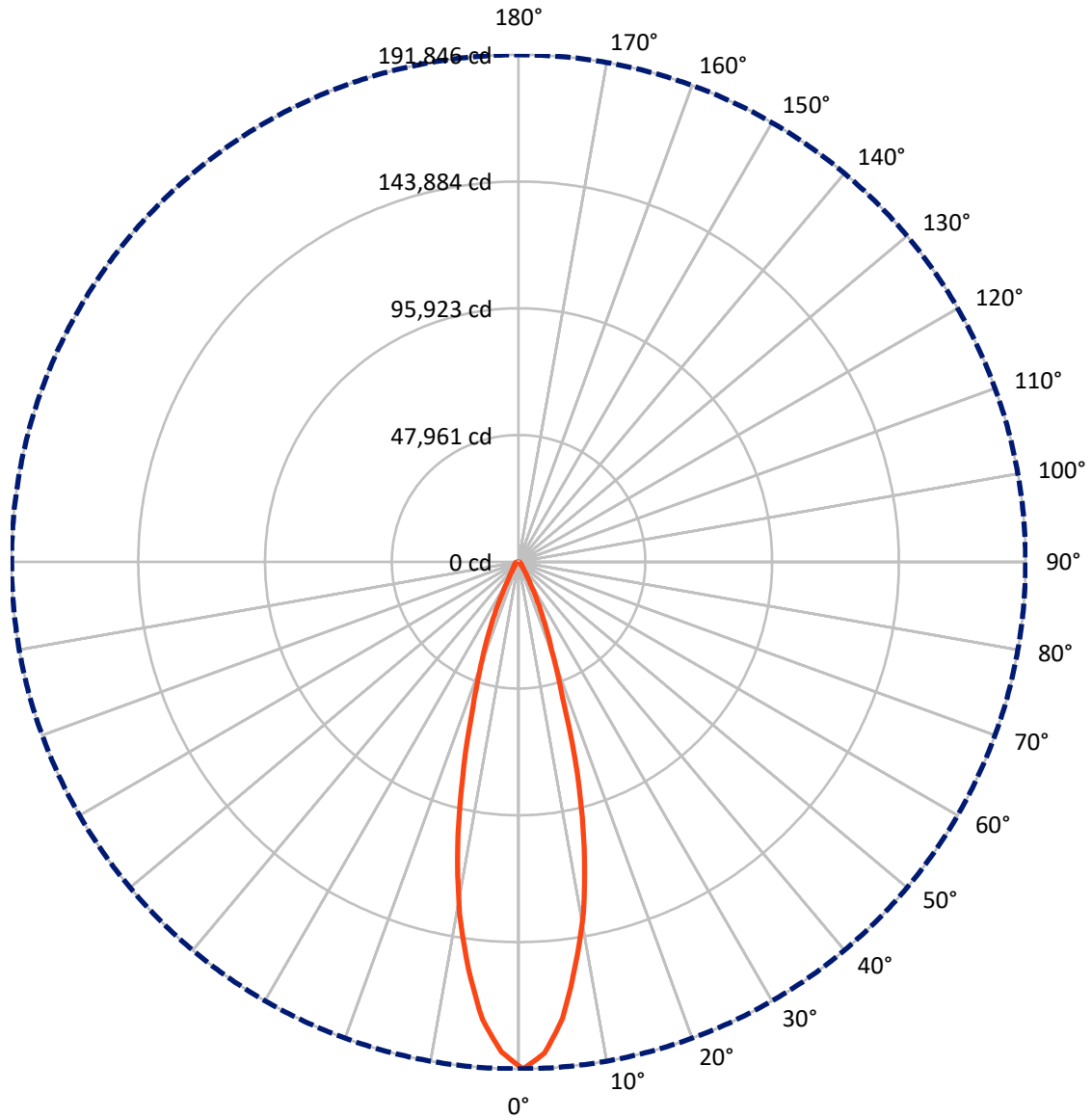
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 479.6 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	28707.8	0.0	28707.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	25738.6	0.0	25738.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	54446.4	0.0	54446.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15483.7	28.4
10°-20°	23449.9	43.1
20°-30°	9896.0	18.2
30°-40°	2581.0	4.7
40°-50°	1305.4	2.4
50°-60°	853.3	1.6
60°-70°	511.2	0.9
70°-80°	268.9	0.5
80°-90°	97.1	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°	54446.4	100.0
0°-180°	54446.4	100.0

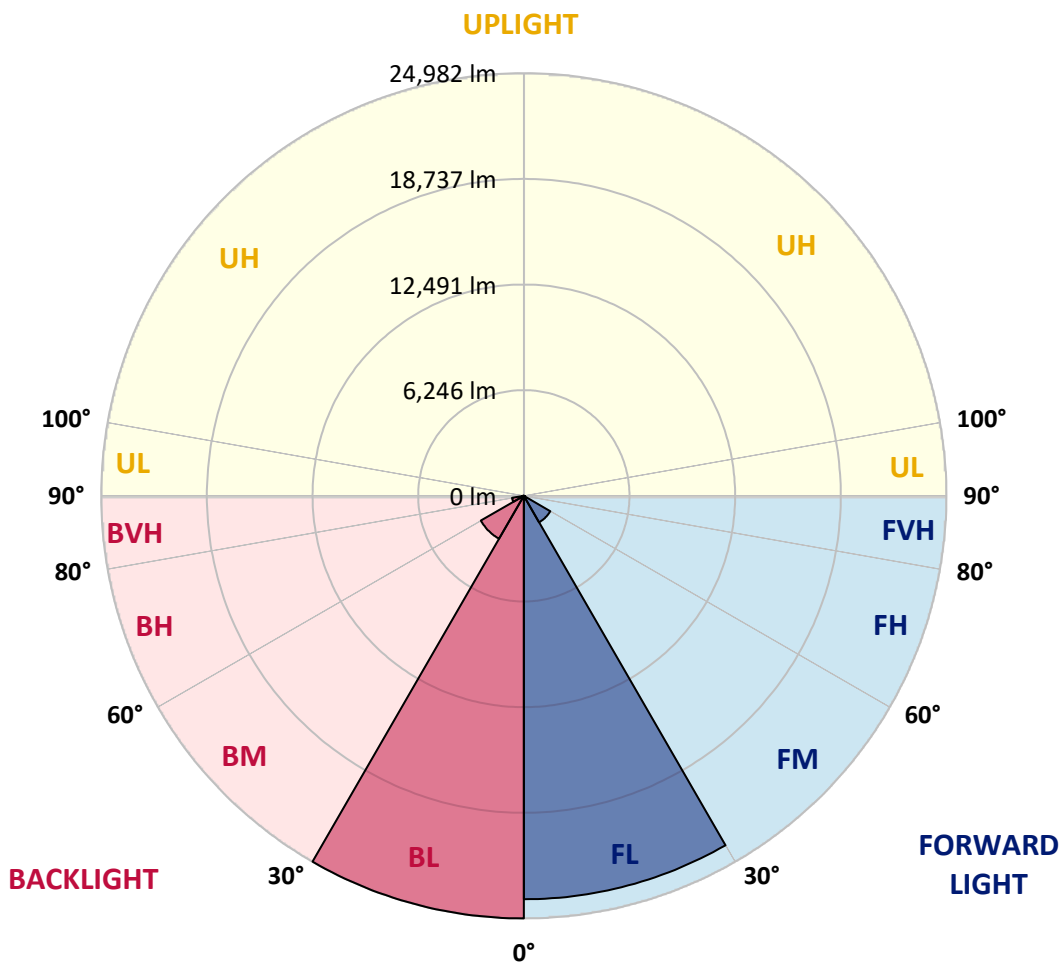


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23847.2	43.8			
FM (30°-60°)	1806.0	3.3			
FH (60°-80°)	73.6	0.1			G0/660
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	24982.3	45.9	B5		
BM (30°-60°)	2933.6	5.4	B3/5000		
BH (60°-80°)	706.5	1.3	B2/1000		G1/1800
BVH (80°-90°)	85.3	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°	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8
2.5°	186257.2	186361.1	185975.9	186807.5	186159.4	187895.8	187033.7	188378.9	187926.4	188678.5
5°	173539.2	173368.0	173257.9	174548.1	174175.1	176040.0	174847.7	174456.4	175667.0	175446.9
7.5°	154333.8	154786.3	154529.5	154865.8	155055.3	157183.2	157855.7	157329.9	157348.2	157654.0
10°	134645.4	133979.0	133031.2	133661.0	134994.0	135923.4	135550.4	136320.8	136149.6	136877.2
12.5°	110420.1	110946.0	110414.0	109851.5	112181.1	111924.3	112572.4	112994.3	111936.5	114290.6
15°	83174.3	83449.5	84097.6	84054.8	85846.3	86207.1	86121.5	86567.8	85742.4	86133.7
17.5°	53433.8	54363.2	56105.8	59053.0	62367.0	62752.2	62654.4	62287.5	61890.1	61449.8
20°	35891.6	35793.8	36423.5	37285.7	44146.0	45962.0	45907.0	44757.5	43094.4	42776.4
22.5°	25142.5	25325.9	25240.3	26096.3	27514.8	32522.6	31905.0	30737.1	30193.0	29838.3
25°	16539.5	16472.2	16900.2	17157.0	18373.8	18985.2	21149.7	20715.6	19877.9	19969.7
27.5°	10082.7	10168.3	10327.2	10547.4	11409.5	11213.8	12448.9	12614.0	12345.0	12057.6
30°	6187.8	6248.9	6377.3	6536.3	6835.9	6621.9	6964.3	7557.4	7459.6	7257.8
32.5°	4200.6	4206.7	4298.4	4359.6	4322.9	4121.1	4231.2	4793.7	4805.9	4787.6
35°	3020.5	3020.5	3106.1	3155.0	3051.1	2886.0	2904.3	3252.9	3405.7	3436.3
37.5°	2085.0	2091.1	2237.9	2384.6	2268.4	2225.6	2152.3	2384.6	2629.2	2665.9
40°	1583.6	1577.5	1650.9	1761.0	1773.2	1693.7	1718.1	1864.9	2115.6	2146.2
42.5°	1284.0	1290.1	1326.8	1314.6	1320.7	1424.7	1461.3	1528.6	1761.0	1816.0
45°	1082.3	1088.4	1106.7	1045.6	1021.1	1180.1	1229.0	1265.7	1461.3	1528.6
47.5°	892.7	904.9	923.3	856.0	843.8	947.7	1033.3	1070.0	1241.2	1314.6
50°	642.0	654.2	721.5	684.8	721.5	746.0	862.1	917.2	1033.3	1131.2
52.5°	464.7	476.9	495.3	501.4	593.1	605.3	690.9	776.5	831.6	941.6
55°	366.9	379.1	366.9	354.6	434.1	501.4	532.0	623.7	666.5	794.9
57.5°	207.9	220.1	238.5	275.1	287.4	385.2	415.8	495.3	532.0	654.2
60°	36.7	42.8	67.3	165.1	201.8	244.6	311.8	379.1	428.0	513.6
62.5°	6.1	6.1	12.2	36.7	116.2	171.2	226.2	269.0	311.8	391.3
65°	0.0	0.0	6.1	12.2	30.6	97.8	122.3	159.0	214.0	281.3
67.5°	0.0	0.0	6.1	12.2	18.3	36.7	55.0	97.8	122.3	189.5
70°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	42.8	73.4	116.2
72.5°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	36.7	36.7	73.4
75°	0.0	0.0	6.1	12.2	18.3	30.6	36.7	36.7	30.6	30.6
77.5°	0.0	0.0	6.1	12.2	24.5	36.7	42.8	36.7	24.5	24.5
80°	0.0	0.0	12.2	18.3	30.6	42.8	55.0	42.8	24.5	12.2
82.5°	0.0	0.0	12.2	24.5	30.6	48.9	67.3	55.0	24.5	12.2
85°	0.0	0.0	6.1	18.3	36.7	48.9	67.3	48.9	24.5	6.1
87.5°	0.0	0.0	6.1	6.1	12.2	18.3	36.7	30.6	12.2	6.1
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°
191845.8	0°	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8	191845.8
187253.8	2.5°	188330.0	189308.3	189510.0	189241.0	189632.3	188929.2	188391.1	186997.0	186159.4
175379.6	5°	176510.8	176364.1	177385.2	177721.5	177678.7	177140.6	176388.5	175544.7	174725.4
157060.9	7.5°	158039.2	158228.7	159158.1	159751.2	159451.6	158779.0	158259.3	157623.4	157073.1
137140.1	10°	138393.6	137091.2	138246.8	138246.8	139047.8	137146.2	137323.6	135721.6	135794.9
114247.8	12.5°	114639.1	115109.9	115299.4	115843.6	114908.1	113899.2	112664.1	112419.6	111655.3
85387.7	15°	86616.7	87961.9	86806.3	88781.2	87827.4	86775.7	86586.2	84690.7	85289.9
61932.9	17.5°	61627.1	63112.9	63577.6	64708.8	63840.6	63216.9	62428.1	61853.4	61810.6
43357.3	20°	43699.7	45191.6	45534.0	46891.4	46793.6	46597.9	45931.5	45203.8	44415.1
29514.3	22.5°	29960.6	31177.4	32314.7	34142.9	34112.3	33537.5	33470.3	32443.1	32461.4
19939.1	25°	20147.0	21033.6	21302.6	23173.6	23381.5	23320.4	22971.8	22018.0	22378.7
12179.9	27.5°	12192.1	12968.7	13879.7	14540.1	15163.7	15065.9	14717.4	14185.4	13953.1
7318.9	30°	7514.6	7863.1	8199.4	8994.3	9367.3	9562.9	9397.8	8902.6	8939.3
4818.2	32.5°	4922.1	5215.6	5460.2	5961.6	6157.2	6518.0	6450.7	6346.8	6224.5
3466.9	35°	3589.2	3803.2	3968.3	4200.6	4451.3	4757.0	4805.9	4763.1	4714.2
2678.1	37.5°	2739.3	2959.4	3148.9	3246.8	3442.4	3680.9	3815.4	3809.3	3772.6
2182.8	40°	2225.6	2390.7	2561.9	2690.3	2824.9	3002.2	3167.3	3185.6	3185.6
1834.3	42.5°	1858.8	1999.4	2170.6	2305.1	2403.0	2568.1	2739.3	2751.5	2739.3
1553.1	45°	1589.7	1712.0	1877.1	2036.1	2115.6	2237.9	2403.0	2439.6	2415.2
1332.9	47.5°	1381.9	1491.9	1632.5	1803.8	1889.4	1999.4	2152.3	2195.1	2189.0
1149.5	50°	1186.2	1314.6	1455.2	1595.9	1705.9	1809.9	1956.6	2005.5	1987.2
978.3	52.5°	1045.6	1161.7	1284.0	1436.9	1565.3	1657.0	1773.2	1858.8	1834.3
825.4	55°	874.4	1015.0	1143.4	1271.8	1430.8	1528.6	1638.7	1742.6	1718.1
697.0	57.5°	758.2	874.4	1021.1	1137.3	1296.3	1412.4	1522.5	1632.5	1626.4
568.6	60°	635.9	758.2	898.8	1021.1	1167.9	1296.3	1406.3	1528.6	1540.8
428.0	62.5°	501.4	648.1	770.4	911.0	1057.8	1198.4	1296.3	1418.5	1436.9
324.1	65°	379.1	532.0	666.5	801.0	947.7	1100.6	1186.2	1290.1	1308.5
238.5	67.5°	281.3	409.7	568.6	690.9	843.8	990.5	1070.0	1155.6	1186.2
146.7	70°	214.0	311.8	476.9	593.1	752.1	868.2	953.8	1027.2	1051.7
97.8	72.5°	134.5	244.6	385.2	507.5	648.1	752.1	813.2	856.0	892.7
55.0	75°	91.7	189.5	311.8	434.1	538.1	617.6	672.6	709.3	739.8
24.5	77.5°	55.0	146.7	256.8	360.8	428.0	489.2	544.2	568.6	587.0
18.3	80°	30.6	110.1	214.0	293.5	336.3	379.1	421.9	452.5	464.7
12.2	82.5°	18.3	85.6	171.2	226.2	244.6	287.4	330.2	348.5	348.5
6.1	85°	12.2	61.1	116.2	165.1	177.3	207.9	220.1	232.3	244.6
6.1	87.5°	12.2	36.7	73.4	91.7	97.8	110.1	116.2	128.4	140.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
191845.8  
185541.8  
173808.2  
155208.2  
135079.6  
110958.2  
84690.7  
60673.3  
44072.7  
32106.8  
21810.1  
13751.3  
8780.3  
6181.7  
4695.9  
3754.2  
3148.9  
2727.0  
2415.2  
2176.7  
1975.0  
1828.2  
1730.4  
1632.5  
1546.9  
1449.1  
1326.8  
1198.4  
1063.9  
886.6  
733.7  
580.9  
452.5  
342.4  
238.5  
134.5  
0.0

(END OF REPORT)