

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: P638596

Luminaire Tested: **EPH-VN-06-E-930-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638596  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-930-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (96) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33677.4 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

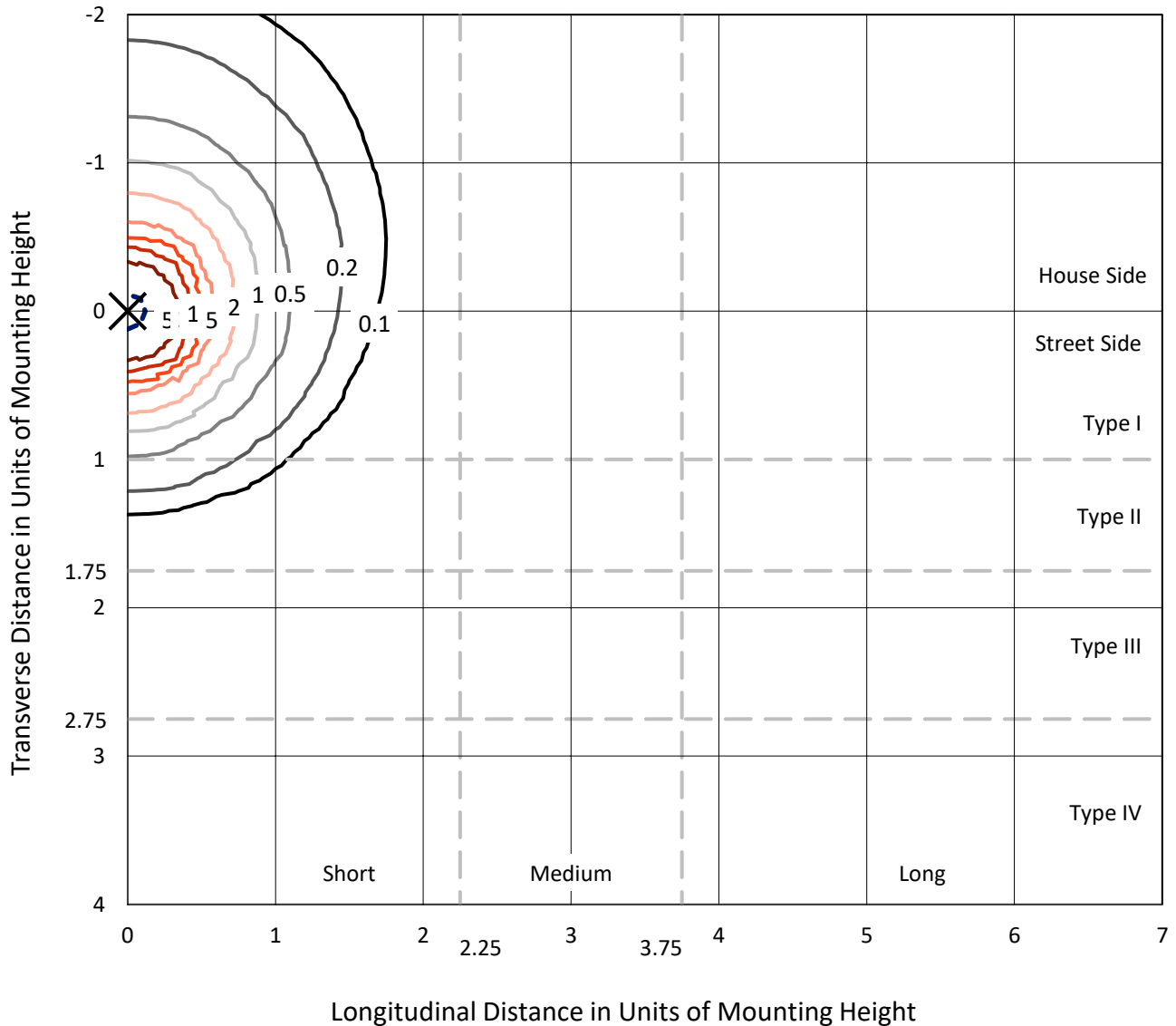
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

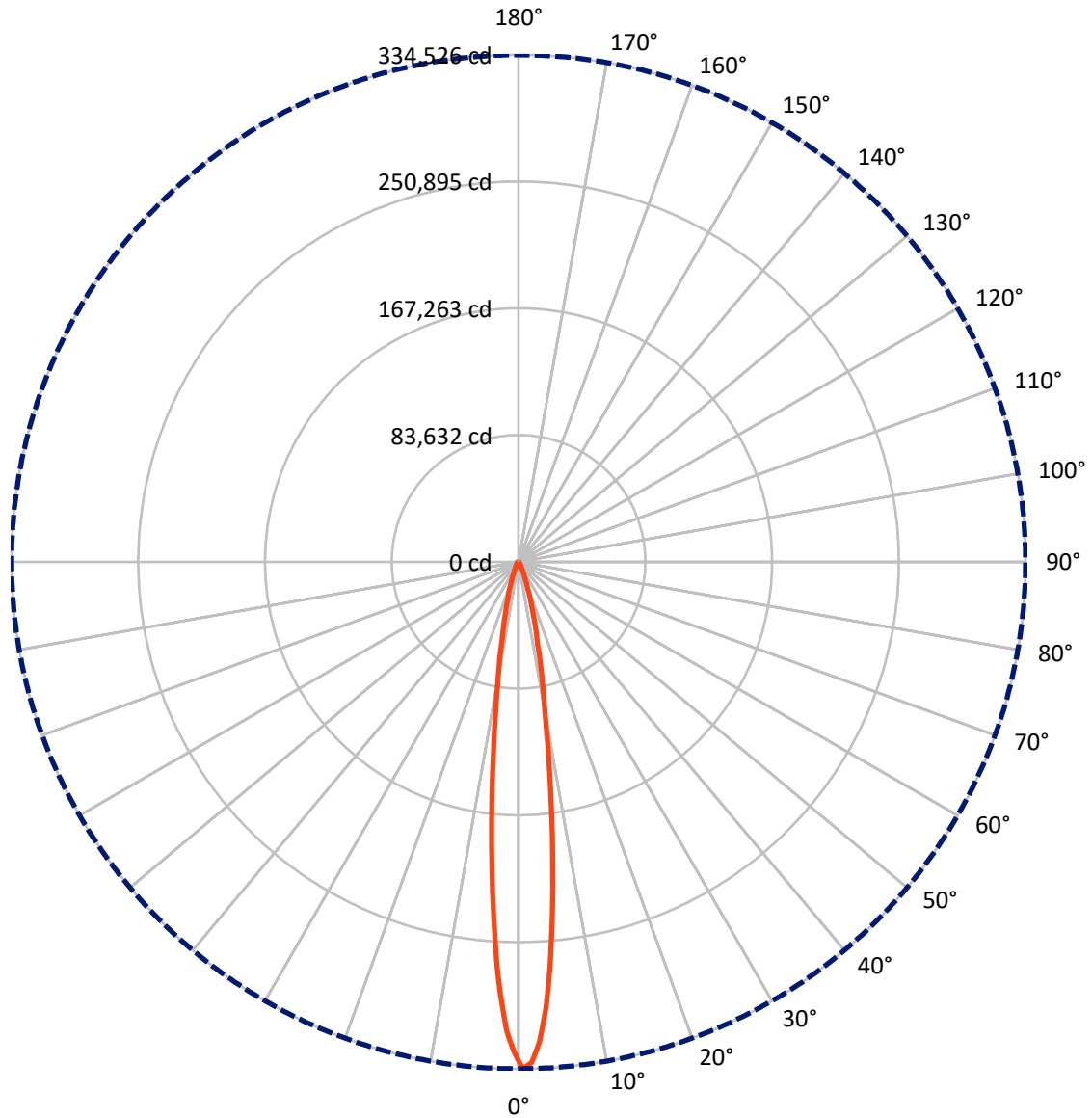
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 836.3 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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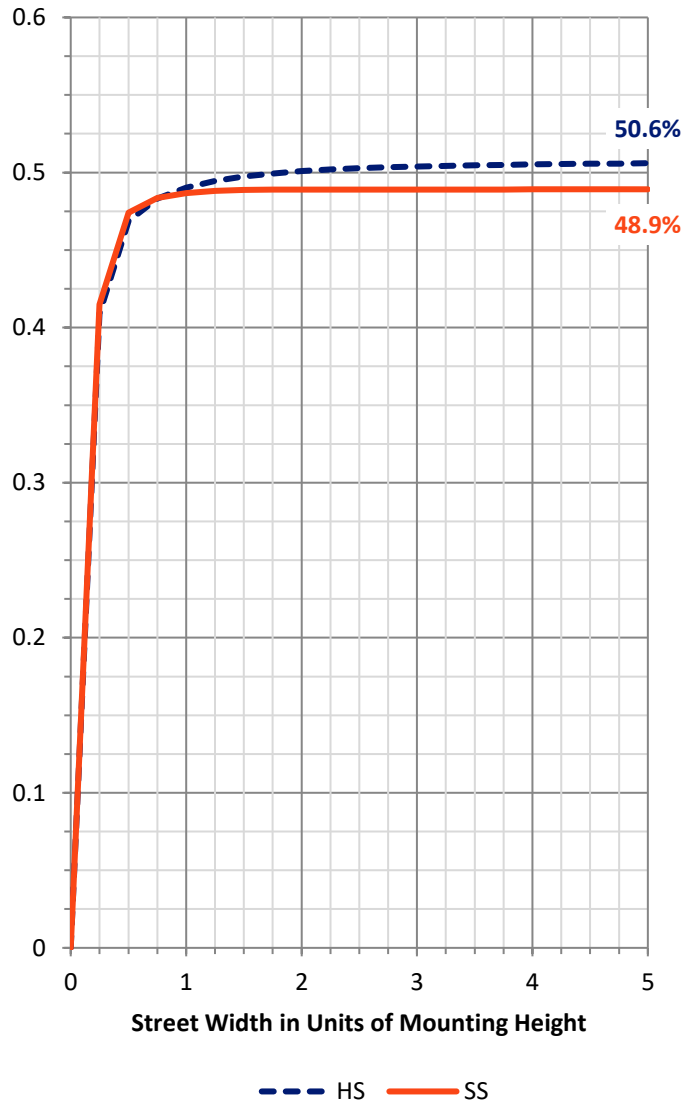
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17249.0	0.0	17249.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	16428.5	0.0	16428.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	33677.4	0.0	33677.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17001.4	50.5
10°-20°	10884.2	32.3
20°-30°	3271.6	9.7
30°-40°	1065.2	3.2
40°-50°	619.8	1.8
50°-60°	411.7	1.2
60°-70°	247.8	0.7
70°-80°	127.4	0.4
80°-90°	48.4	0.1
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°	33677.4	100.0
0°-180°	33677.4	100.0

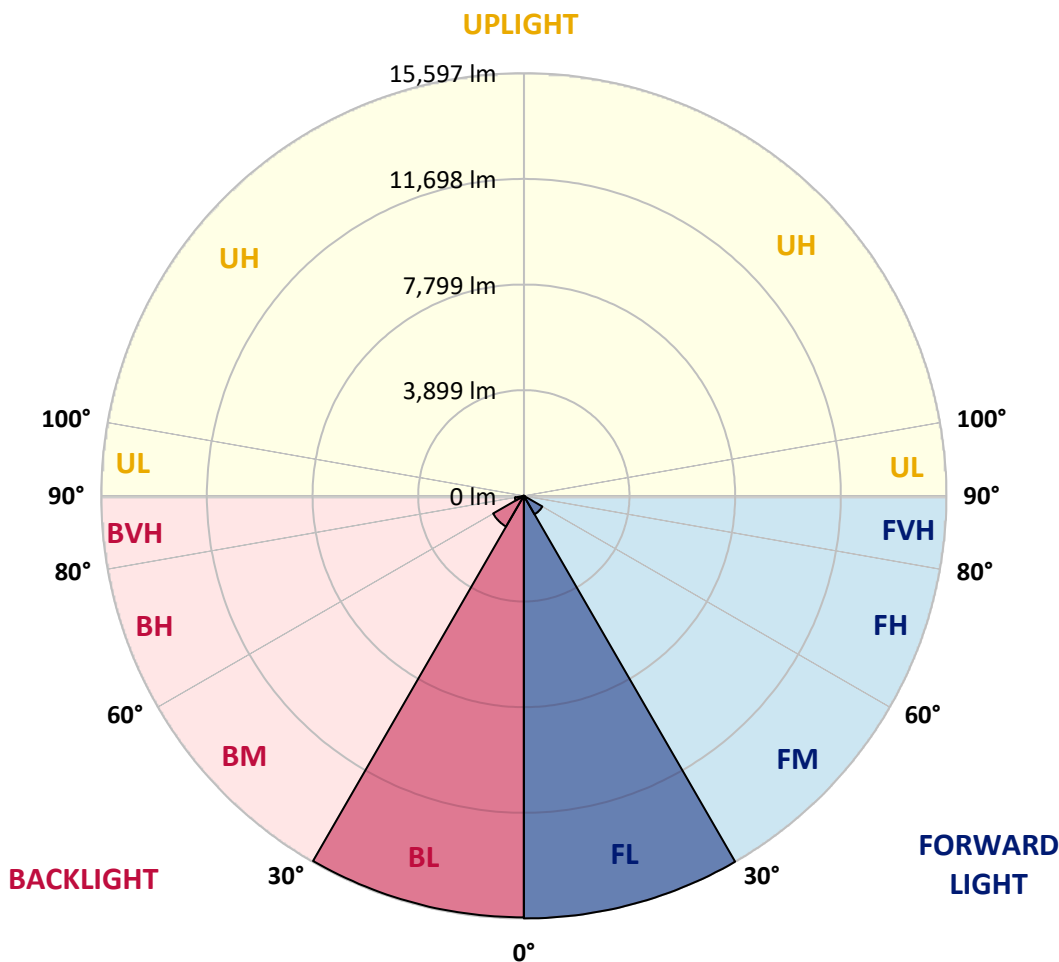


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15597.1	46.3			
FM (30°-60°)	787.1	2.3			
FH (60°-80°)	37.0	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15560.1	46.2	B5		
BM (30°-60°)	1309.6	3.9	B2/2500		
BH (60°-80°)	338.1	1.0	B1/500		G0/660
BVH (80°-90°)	41.1	0.1			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°	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1
1°	330520.6	329511.9	326907.6	328760.0	330388.6	329915.4	329882.4	329706.3	329460.6	331389.9
2°	317308.5	316655.5	312804.1	314392.4	316706.9	315019.6	316076.0	315148.0	315166.3	317469.8
3°	295036.3	295392.1	289248.2	292134.9	295351.8	291261.9	292531.1	294915.3	292417.3	291665.4
4°	266088.4	262999.9	259643.7	262578.1	263410.7	261030.2	263370.4	266290.1	262820.2	262974.2
5°	233039.6	230758.1	226785.7	228597.7	226532.6	227284.5	230791.1	231994.2	229573.3	226525.2
6°	199059.2	197437.9	192471.4	195083.1	194349.5	193924.0	198351.3	194683.2	196003.7	194158.7
7°	165577.6	162547.8	160108.6	162610.2	162771.6	161491.4	167239.2	166571.6	164169.1	163611.5
8°	137183.5	134161.1	132096.0	133959.4	135177.1	133167.1	135870.4	137645.7	135767.7	135936.4
9°	110645.5	110113.6	107241.6	109677.1	111001.3	108848.2	111841.3	112483.2	110726.2	111580.8
10°	90849.2	90229.4	87936.8	88923.5	91117.0	88549.4	91421.5	91630.5	90229.4	90629.2
12.5°	56142.5	55893.1	55830.8	55973.8	55944.5	56399.3	57132.9	56296.6	56186.6	54803.7
15°	36287.6	36658.1	36276.6	37010.2	37116.6	37545.7	37098.2	36423.3	35135.9	34497.6
17.5°	22646.3	23119.5	23772.4	24847.1	25921.8	26046.5	25452.3	24660.0	24036.5	23354.2
20°	13028.8	13259.9	13160.8	14448.3	17228.6	17984.2	17217.6	16385.0	15633.1	14943.5
22.5°	8095.3	8010.9	8165.0	8597.8	9503.8	11840.3	11213.1	10380.5	9833.9	9265.4
25°	4962.8	5054.5	4995.8	5234.2	5641.4	6631.8	6774.8	6415.3	6136.6	5843.1
27.5°	3194.8	3194.8	3220.5	3352.6	3631.3	3598.3	4361.3	4082.5	3932.1	3789.1
30°	2219.1	2226.5	2226.5	2303.5	2365.9	2255.8	2453.9	2813.4	2743.7	2633.6
32.5°	1646.9	1668.9	1687.3	1727.6	1676.3	1558.9	1606.6	2024.7	1984.4	1944.0
35°	1254.5	1272.8	1316.8	1338.8	1265.5	1192.1	1148.1	1489.2	1507.6	1496.5
37.5°	913.3	924.3	1005.0	1089.4	1005.0	939.0	913.3	1144.4	1232.5	1221.4
40°	700.6	704.3	718.9	814.3	814.3	762.9	770.3	854.6	1008.7	1008.7
42.5°	601.6	601.6	616.2	601.6	605.2	660.2	678.6	689.6	854.6	854.6
45°	520.9	520.9	528.2	491.5	454.8	568.5	583.2	586.9	718.9	737.3
47.5°	436.5	436.5	451.2	403.5	385.1	451.2	491.5	502.5	619.9	634.6
50°	322.8	326.5	370.5	330.1	341.1	348.5	425.5	432.8	524.5	557.5
52.5°	216.4	216.4	223.7	256.8	297.1	286.1	344.8	370.5	418.2	462.2
55°	176.1	176.1	172.4	165.1	220.1	238.4	253.1	308.1	341.1	396.1
57.5°	121.0	128.4	117.4	135.7	143.1	179.7	190.7	242.1	260.4	333.8
60°	14.7	18.3	25.7	99.0	95.4	121.0	143.1	190.7	212.7	256.8
62.5°	3.7	3.7	7.3	18.3	66.0	80.7	113.7	132.0	154.1	198.1
65°	0.0	0.0	3.7	7.3	14.7	44.0	58.7	77.0	110.0	139.4
67.5°	0.0	0.0	3.7	7.3	7.3	18.3	29.3	47.7	58.7	102.7
70°	0.0	0.0	3.7	7.3	7.3	14.7	18.3	22.0	40.3	55.0
72.5°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	18.3	18.3	36.7
75°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	18.3	14.7	14.7
77.5°	0.0	0.0	3.7	7.3	14.7	18.3	22.0	18.3	11.0	11.0
80°	0.0	0.0	3.7	11.0	18.3	25.7	29.3	22.0	11.0	7.3
82.5°	0.0	0.0	7.3	14.7	22.0	29.3	40.3	33.0	14.7	7.3
85°	0.0	0.0	3.7	11.0	22.0	29.3	58.7	40.3	18.3	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.3	22.0	14.7	7.3	3.7
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°
334526.1	0°	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1	334526.1
329163.5	1°	331463.3	331694.4	330938.8	332108.9	331698.1	329291.8	328495.9	327553.2
316116.3	2°	315148.0	316325.4	316384.1	317682.6	317664.2	314858.2	313988.9	315591.8
293191.3	3°	292303.6	293675.5	292439.4	294746.5	294053.3	290649.4	289765.4	291584.7
264192.0	4°	263403.4	263143.0	262717.5	261404.3	263021.9	260700.1	258950.4	261419.0
230567.4	5°	230105.2	229525.7	228696.7	228307.9	229511.0	228025.4	224427.1	228032.8
197496.6	6°	197738.7	195244.4	195123.4	194907.0	195028.0	190868.5	191117.9	193802.9
161693.2	7°	163402.5	163861.0	162925.6	164425.8	163281.4	160464.4	159378.7	162206.7
136677.4	8°	135723.7	135144.1	134428.9	136670.0	134685.6	132836.9	131571.5	133805.3
111720.2	9°	111511.1	110509.8	109783.5	109669.8	109977.9	106508.0	107212.2	108903.2
90849.2	10°	90882.3	89239.0	89638.8	89745.2	89407.7	87133.6	87155.6	87738.8
55720.7	12.5°	55522.7	54715.7	54917.4	55027.5	55713.4	54913.8	53784.0	52969.7
35132.2	15°	34897.4	34317.9	35502.7	36298.6	36137.2	35425.6	34893.8	34156.5
23354.2	17.5°	23137.8	23897.1	23900.7	24627.0	24700.4	23988.8	23578.0	22914.1
15189.2	20°	15134.2	15449.7	16106.2	16619.7	16916.9	16374.0	15882.5	15427.6
9470.8	22.5°	9470.8	10021.0	10431.8	11099.4	11370.8	10974.7	10626.2	10255.8
5912.8	25°	5813.8	6206.3	6547.4	7126.9	7497.4	7306.7	6987.6	6727.1
3818.4	27.5°	3877.1	4042.1	4210.9	4610.7	4995.8	4889.5	4761.1	4603.4
2692.3	30°	2732.7	2747.3	2927.1	3150.8	3407.6	3473.6	3414.9	3334.2
1977.1	32.5°	2013.7	2072.4	2156.8	2296.2	2468.6	2626.3	2597.0	2560.3
1511.2	35°	1555.2	1643.3	1713.0	1819.3	1911.0	2061.4	2087.1	2076.1
1243.5	37.5°	1269.1	1346.2	1415.9	1478.2	1555.2	1657.9	1738.6	1742.3
1027.0	40°	1052.7	1122.4	1214.1	1261.8	1316.8	1393.8	1492.9	1500.2
869.3	42.5°	887.7	953.7	1045.4	1104.1	1144.4	1217.8	1316.8	1331.5
744.6	45°	762.9	803.3	898.7	968.4	1008.7	1056.4	1162.8	1177.4
641.9	47.5°	663.9	704.3	762.9	862.0	898.7	942.7	1027.0	1052.7
568.5	50°	583.2	623.6	674.9	762.9	818.0	854.6	924.3	961.0
495.2	52.5°	517.2	557.5	612.6	682.2	744.6	777.6	843.6	891.3
403.5	55°	432.8	502.5	542.9	605.2	689.6	718.9	770.3	832.6
352.1	57.5°	377.8	436.5	495.2	546.5	630.9	667.6	718.9	777.6
278.8	60°	319.1	374.1	443.8	487.8	568.5	616.2	671.2	726.3
212.7	62.5°	253.1	326.5	374.1	436.5	513.5	575.9	619.9	674.9
165.1	65°	187.1	267.8	322.8	388.8	462.2	528.2	564.9	623.6
117.4	67.5°	135.7	209.1	275.1	337.5	407.1	473.2	509.9	561.2
73.4	70°	106.4	154.1	227.4	282.4	355.8	410.8	451.2	484.2
47.7	72.5°	62.4	117.4	183.4	245.8	311.8	348.5	377.8	407.1
22.0	75°	40.3	91.7	150.4	205.4	253.1	286.1	311.8	337.5
11.0	77.5°	25.7	66.0	121.0	172.4	194.4	234.8	256.8	271.4
7.3	80°	14.7	51.4	106.4	139.4	157.7	183.4	205.4	223.7
7.3	82.5°	11.0	44.0	88.0	117.4	117.4	146.7	157.7	157.7
3.7	85°	7.3	36.7	69.7	110.0	88.0	110.0	102.7	102.7
3.7	87.5°	7.3	25.7	33.0	47.7	40.3	47.7	47.7	55.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
334526.1  
323819.2  
308802.3  
283504.1  
252483.7  
218532.6  
186019.4  
154514.9  
127426.6  
103621.3  
83770.0  
52474.5  
33778.7  
22749.0  
15269.9  
10057.7  
6576.7  
4511.7  
3279.2  
2530.9  
2039.4  
1716.6  
1489.2  
1320.5  
1173.8  
1056.4  
964.7  
891.3  
836.3  
781.3  
740.9  
700.6  
634.6  
564.9  
495.2  
414.5  
337.5  
264.1  
201.7  
146.7  
99.0  
55.0  
0.0

(END OF REPORT)