

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: P638578

Luminaire Tested: **EPH-VN-06-E-740-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638578  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-E-740-U-33-VI  
Description: EPHEBUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52621 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

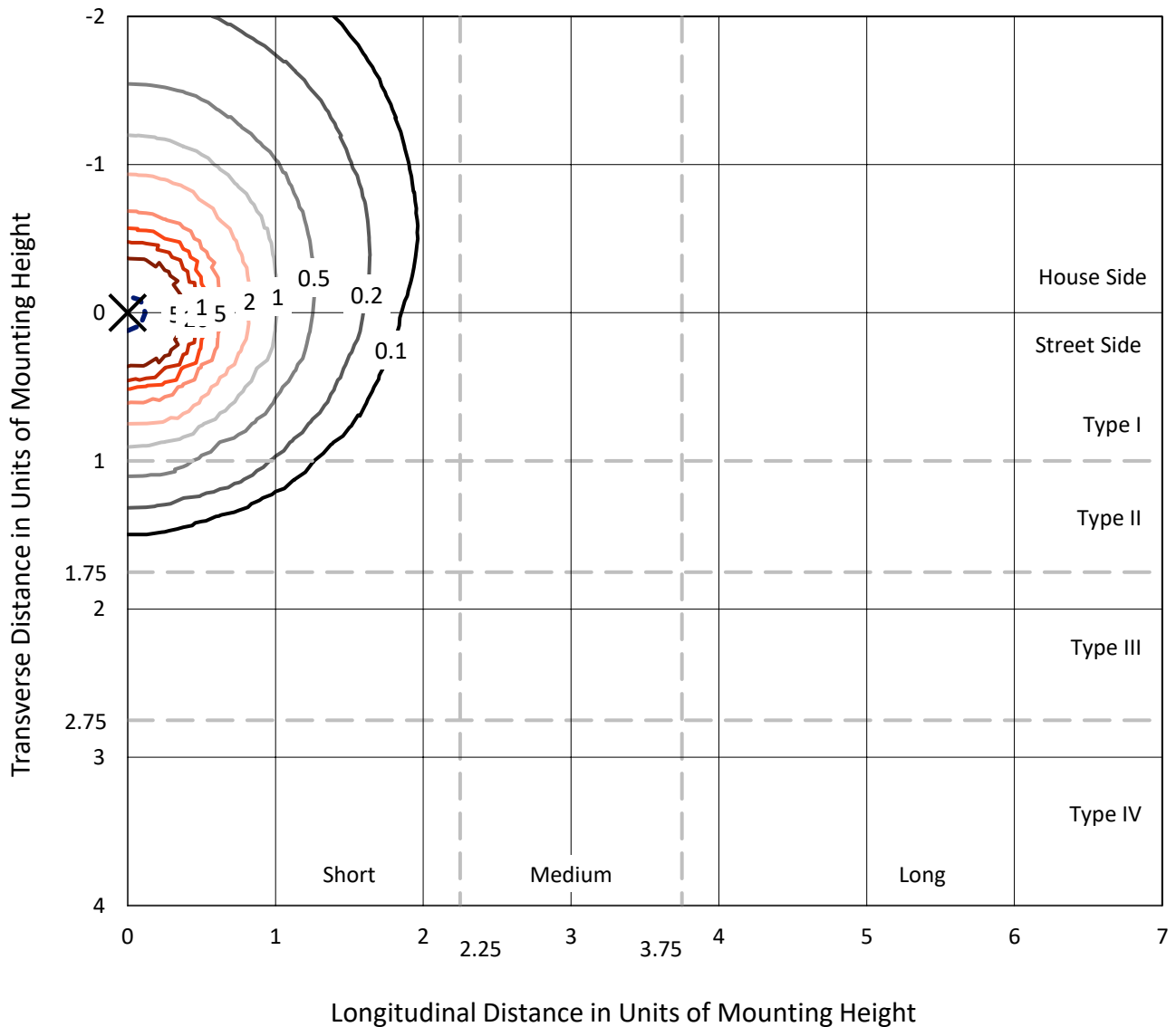
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

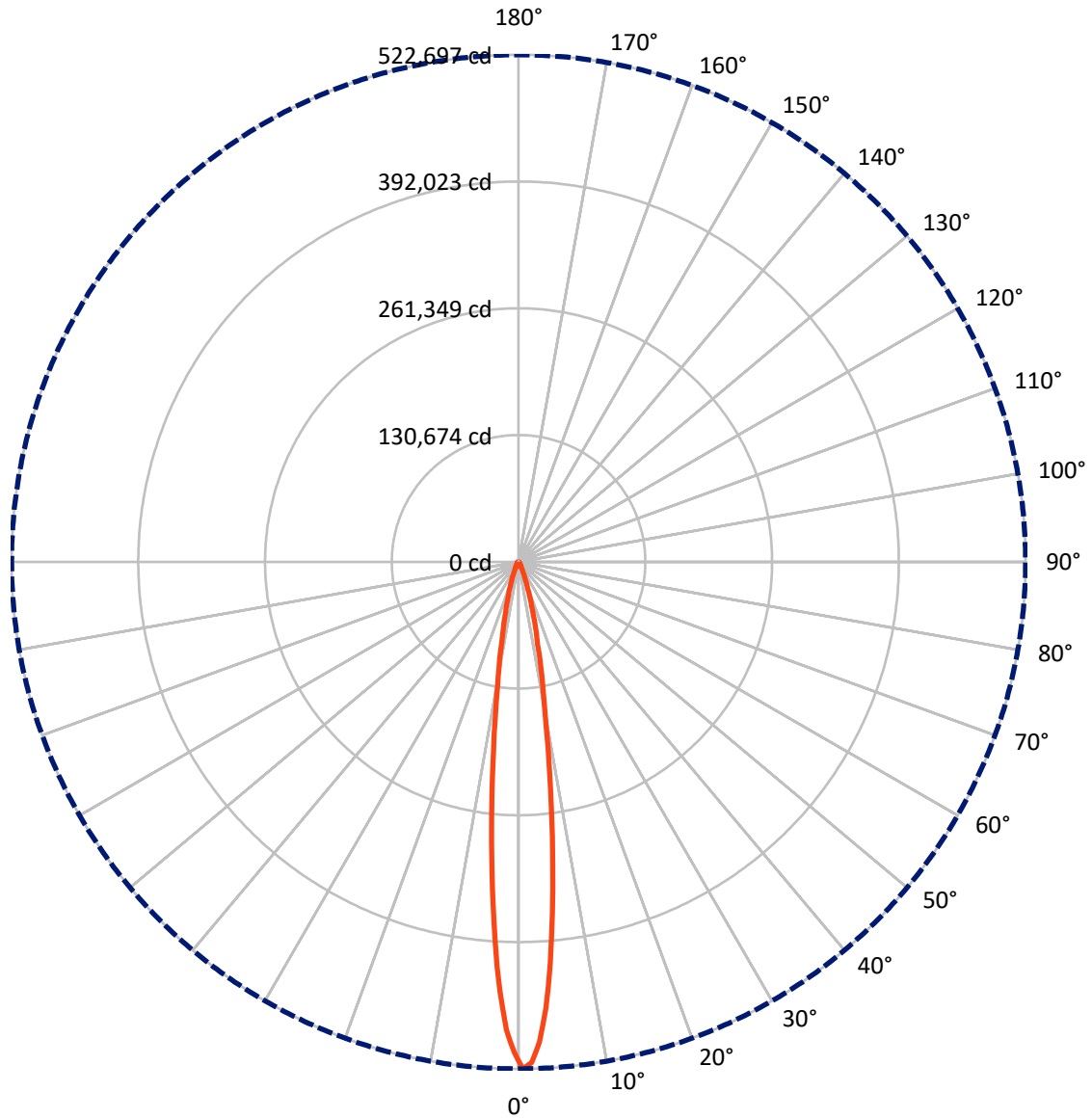
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1306.7 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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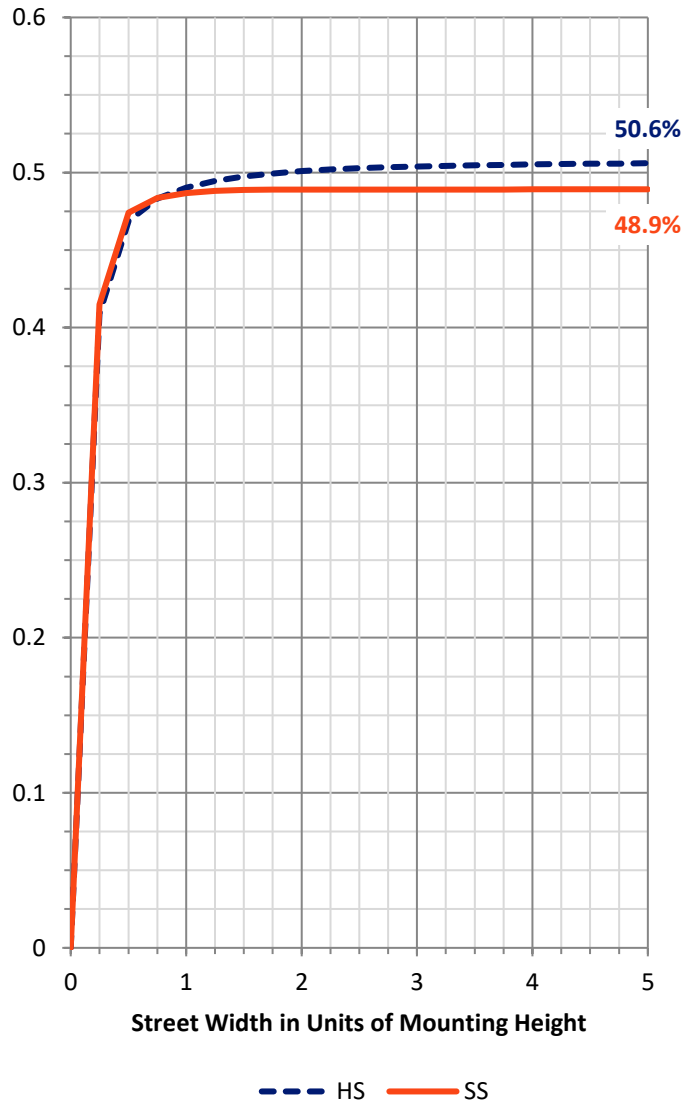
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26951.5	0.0	26951.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	25669.5	0.0	25669.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	52621.0	0.0	52621.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26564.7	50.5
10°-20°	17006.6	32.3
20°-30°	5111.8	9.7
30°-40°	1664.4	3.2
40°-50°	968.4	1.8
50°-60°	643.2	1.2
60°-70°	387.2	0.7
70°-80°	199.0	0.4
80°-90°	75.6	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°	52621.0	100.0
0°-180°	52621.0	100.0

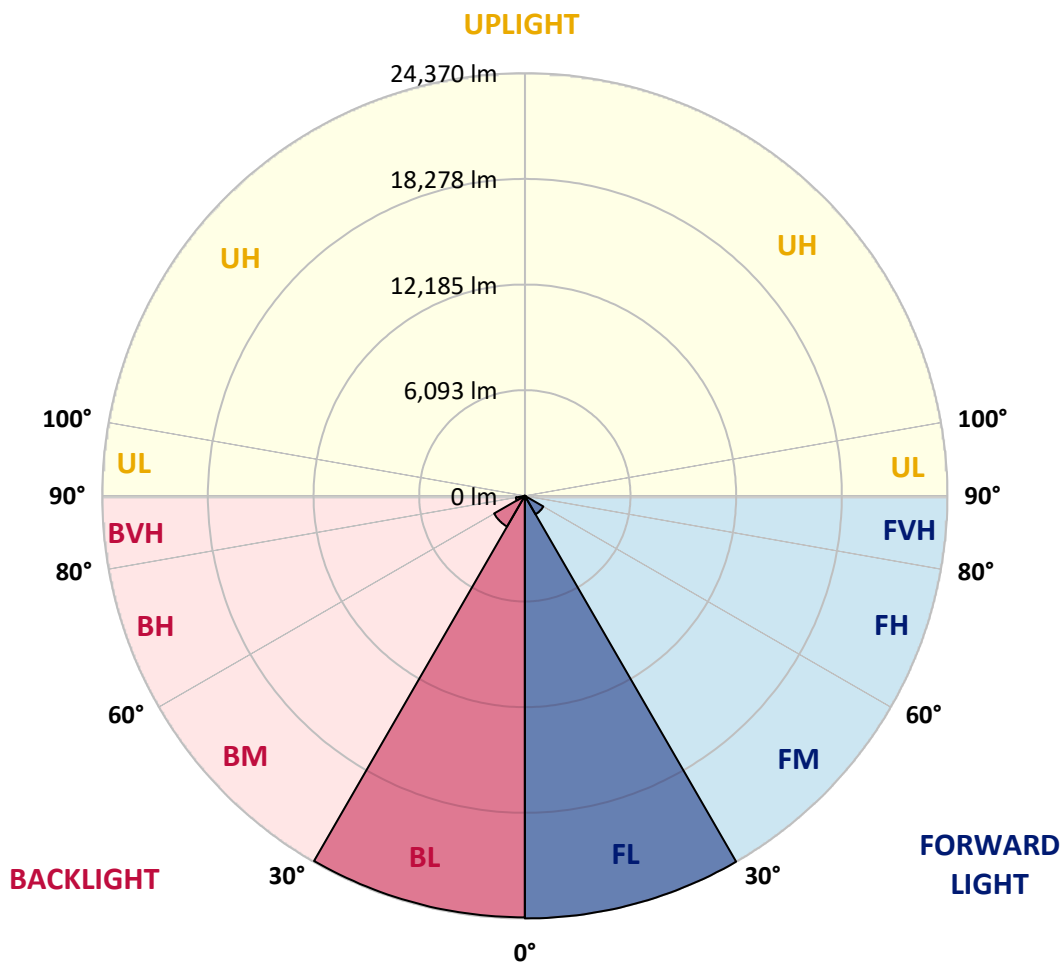


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24370.4	46.3			
FM (30°-60°)	1229.8	2.3			
FH (60°-80°)	57.9	0.1			G0/660
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	24312.7	46.2	B5		
BM (30°-60°)	2046.3	3.9	B2/2500		
BH (60°-80°)	528.3	1.0	B2/1000		G0/660
BVH (80°-90°)	64.2	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°	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0
1°	516438.5	514862.4	510793.2	513687.5	516232.1	515492.8	515441.2	515166.1	514782.1	517796.8
2°	495794.5	494774.3	488756.5	491238.1	494854.5	492218.1	493868.8	492418.7	492447.4	496046.6
3°	460994.2	461550.2	451950.3	456460.8	461487.1	455096.8	457079.8	460805.1	456902.1	455727.2
4°	415763.1	410937.4	405693.3	410278.3	411579.3	407859.7	411516.2	416078.3	410656.5	410897.2
5°	364124.4	360559.6	354352.6	357183.8	353957.1	355132.0	360611.1	362491.0	358708.4	353945.7
6°	311030.0	308496.7	300736.6	304817.3	303671.0	303006.2	309923.8	304192.6	306255.8	303373.0
7°	258715.0	253981.0	250169.7	254078.4	254330.6	252330.4	261311.3	260268.2	256514.2	255643.0
8°	214349.3	209626.7	206400.0	209311.5	211214.3	208073.5	212297.5	215071.4	212137.0	212400.6
9°	172883.6	172052.5	167565.0	171370.5	173439.5	170075.3	174752.0	175754.9	173009.7	174345.1
10°	141951.9	140983.4	137401.3	138943.0	142370.3	138358.4	142846.0	143172.7	140983.4	141608.1
12.5°	87722.7	87333.0	87235.6	87459.1	87413.2	88123.9	89270.2	87963.4	87791.5	85630.8
15°	56699.4	57278.3	56682.2	57828.5	57994.7	58665.2	57966.0	56911.5	54899.8	53902.5
17.5°	35384.8	36124.2	37144.3	38823.6	40502.8	40697.7	39769.2	38531.3	37557.0	36491.0
20°	20357.4	20718.5	20563.8	22575.4	26919.7	28100.4	26902.6	25601.6	24426.6	23349.2
22.5°	12648.9	12517.1	12757.8	13434.1	14849.7	18500.5	17520.5	16219.5	15365.5	14477.2
25°	7754.4	7897.7	7806.0	8178.5	8814.7	10362.1	10585.6	10024.0	9588.4	9129.9
27.5°	4991.9	4991.9	5032.0	5238.4	5674.0	5622.4	6814.5	6378.9	6143.9	5920.4
30°	3467.4	3478.9	3478.9	3599.2	3696.7	3524.7	3834.2	4395.9	4287.0	4115.0
32.5°	2573.3	2607.7	2636.4	2699.4	2619.2	2435.8	2510.3	3163.7	3100.6	3037.6
35°	1960.1	1988.7	2057.5	2091.9	1977.3	1862.7	1793.9	2326.9	2355.5	2338.4
37.5°	1427.1	1444.3	1570.4	1702.2	1570.4	1467.2	1427.1	1788.2	1925.7	1908.5
40°	1094.7	1100.4	1123.3	1272.3	1272.3	1192.1	1203.6	1335.4	1576.1	1576.1
42.5°	939.9	939.9	962.9	939.9	945.7	1031.6	1060.3	1077.5	1335.4	1335.4
45°	813.8	813.8	825.3	768.0	710.7	888.3	911.3	917.0	1123.3	1152.0
47.5°	682.0	682.0	704.9	630.4	601.8	704.9	768.0	785.2	968.6	991.5
50°	504.4	510.1	578.9	515.8	533.0	544.5	664.8	676.3	819.6	871.2
52.5°	338.1	338.1	349.6	401.2	464.2	447.0	538.7	578.9	653.4	722.1
55°	275.1	275.1	269.4	257.9	343.9	372.5	395.5	481.4	533.0	619.0
57.5°	189.1	200.6	183.4	212.1	223.5	280.8	298.0	378.3	406.9	521.5
60°	22.9	28.7	40.1	154.7	149.0	189.1	223.5	298.0	332.4	401.2
62.5°	5.7	5.7	11.5	28.7	103.2	126.1	177.7	206.3	240.7	309.5
65°	0.0	0.0	5.7	11.5	22.9	68.8	91.7	120.4	171.9	217.8
67.5°	0.0	0.0	5.7	11.5	11.5	28.7	45.9	74.5	91.7	160.5
70°	0.0	0.0	5.7	11.5	11.5	22.9	28.7	34.4	63.0	86.0
72.5°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	28.7	28.7	57.3
75°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	28.7	22.9	22.9
77.5°	0.0	0.0	5.7	11.5	22.9	28.7	34.4	28.7	17.2	17.2
80°	0.0	0.0	5.7	17.2	28.7	40.1	45.9	34.4	17.2	11.5
82.5°	0.0	0.0	11.5	22.9	34.4	45.9	63.0	51.6	22.9	11.5
85°	0.0	0.0	5.7	17.2	34.4	45.9	91.7	63.0	28.7	5.7
87.5°	0.0	0.0	0.0	5.7	5.7	11.5	34.4	22.9	11.5	5.7
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°
522697.0	0°	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0	522697.0
514317.9	1°	517911.4	518272.5	517091.8	518920.1	518278.2	514518.5	513274.8	511801.9
493931.8	2°	492418.7	494258.5	494350.2	496379.0	496350.4	491966.0	490607.7	493112.2
458111.4	3°	456724.4	458867.9	456936.5	460541.5	459458.2	454139.6	452758.4	455601.1
412800.0	4°	411567.8	411160.9	410496.1	408444.3	410971.7	407343.9	404610.0	408467.2
360261.5	5°	359539.4	358633.8	357338.6	356731.1	358610.9	356289.8	350667.4	356301.2
308588.4	6°	308966.7	305069.5	304880.3	304542.2	304731.3	298232.1	298621.8	302817.1
252645.6	7°	255316.3	256032.8	254571.3	256915.4	255127.2	250725.6	249029.2	253448.0
213558.4	8°	212068.2	211162.7	210045.1	213546.9	210446.3	207557.7	205580.4	209070.8
174562.8	9°	174236.2	172671.5	171536.7	171359.1	171840.5	166418.7	167519.1	170161.2
141951.9	10°	142003.5	139435.9	140060.6	140226.8	139699.6	136146.2	136180.6	137091.8
87063.6	12.5°	86754.1	85493.3	85808.5	85980.4	87052.2	85802.8	84037.5	82765.2
54894.0	15°	54527.2	53621.7	55472.9	56716.6	56464.4	55352.5	54521.5	53369.5
36491.0	17.5°	36152.8	37339.2	37344.9	38479.7	38594.3	37482.5	36840.6	35803.2
23733.2	20°	23647.2	24140.1	25166.0	25968.4	26432.6	25584.4	24816.4	24105.7
14798.1	22.5°	14798.1	15657.8	16299.7	17342.8	17766.9	17147.9	16603.5	16024.6
9238.8	25°	9084.1	9697.3	10230.3	11135.8	11714.7	11416.7	10918.1	10511.1
5966.2	27.5°	6057.9	6315.9	6579.5	7204.2	7806.0	7639.8	7439.2	7192.7
4206.7	30°	4269.8	4292.7	4573.5	4923.2	5324.3	5427.5	5335.8	5209.7
3089.2	32.5°	3146.5	3238.2	3370.0	3587.8	3857.1	4103.6	4057.7	4000.4
2361.3	35°	2430.1	2567.6	2676.5	2842.7	2986.0	3221.0	3261.1	3243.9
1942.9	37.5°	1983.0	2103.4	2212.3	2309.7	2430.1	2590.5	2716.6	2722.4
1604.8	40°	1644.9	1753.8	1897.0	1971.6	2057.5	2177.9	2332.6	2344.1
1358.3	42.5°	1387.0	1490.1	1633.4	1725.1	1788.2	1902.8	2057.5	2080.4
1163.4	45°	1192.1	1255.1	1404.2	1513.1	1576.1	1650.6	1816.8	1839.7
1003.0	47.5°	1037.4	1100.4	1192.1	1346.8	1404.2	1472.9	1604.8	1644.9
888.3	50°	911.3	974.3	1054.6	1192.1	1278.1	1335.4	1444.3	1501.6
773.7	52.5°	808.1	871.2	957.1	1066.0	1163.4	1215.0	1318.2	1392.7
630.4	55°	676.3	785.2	848.2	945.7	1077.5	1123.3	1203.6	1301.0
550.2	57.5°	590.3	682.0	773.7	854.0	985.8	1043.1	1123.3	1215.0
435.6	60°	498.6	584.6	693.5	762.3	888.3	962.9	1048.8	1134.8
332.4	62.5°	395.5	510.1	584.6	682.0	802.4	899.8	968.6	1054.6
257.9	65°	292.3	418.4	504.4	607.5	722.1	825.3	882.6	974.3
183.4	67.5°	212.1	326.7	429.8	527.3	636.2	739.3	796.6	876.9
114.6	70°	166.2	240.7	355.3	441.3	555.9	641.9	704.9	756.5
74.5	72.5°	97.4	183.4	286.6	384.0	487.2	544.5	590.3	636.2
34.4	75°	63.0	143.3	235.0	321.0	395.5	447.0	487.2	527.3
17.2	77.5°	40.1	103.2	189.1	269.4	303.8	366.8	401.2	424.1
11.5	80°	22.9	80.2	166.2	217.8	246.4	286.6	321.0	349.6
11.5	82.5°	17.2	68.8	137.6	183.4	183.4	229.3	246.4	246.4
5.7	85°	11.5	57.3	108.9	171.9	137.6	171.9	160.5	160.5
5.7	87.5°	11.5	40.1	51.6	74.5	63.0	74.5	74.5	86.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
522697.0  
505967.4  
482503.7  
442975.1  
394505.8  
341457.2  
290655.3  
241429.5  
199104.1  
161908.2  
130890.6  
81991.5  
52779.2  
35545.3  
23859.3  
15715.1  
10276.2  
7049.5  
5123.8  
3954.6  
3186.6  
2682.2  
2326.9  
2063.3  
1834.0  
1650.6  
1507.3  
1392.7  
1306.7  
1220.8  
1157.7  
1094.7  
991.5  
882.6  
773.7  
647.6  
527.3  
412.7  
315.2  
229.3  
154.7  
86.0  
0.0

(END OF REPORT)