

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: P638605

Luminaire Tested: **EPH-VN-08-E-935-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638605  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-935-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45210.3 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

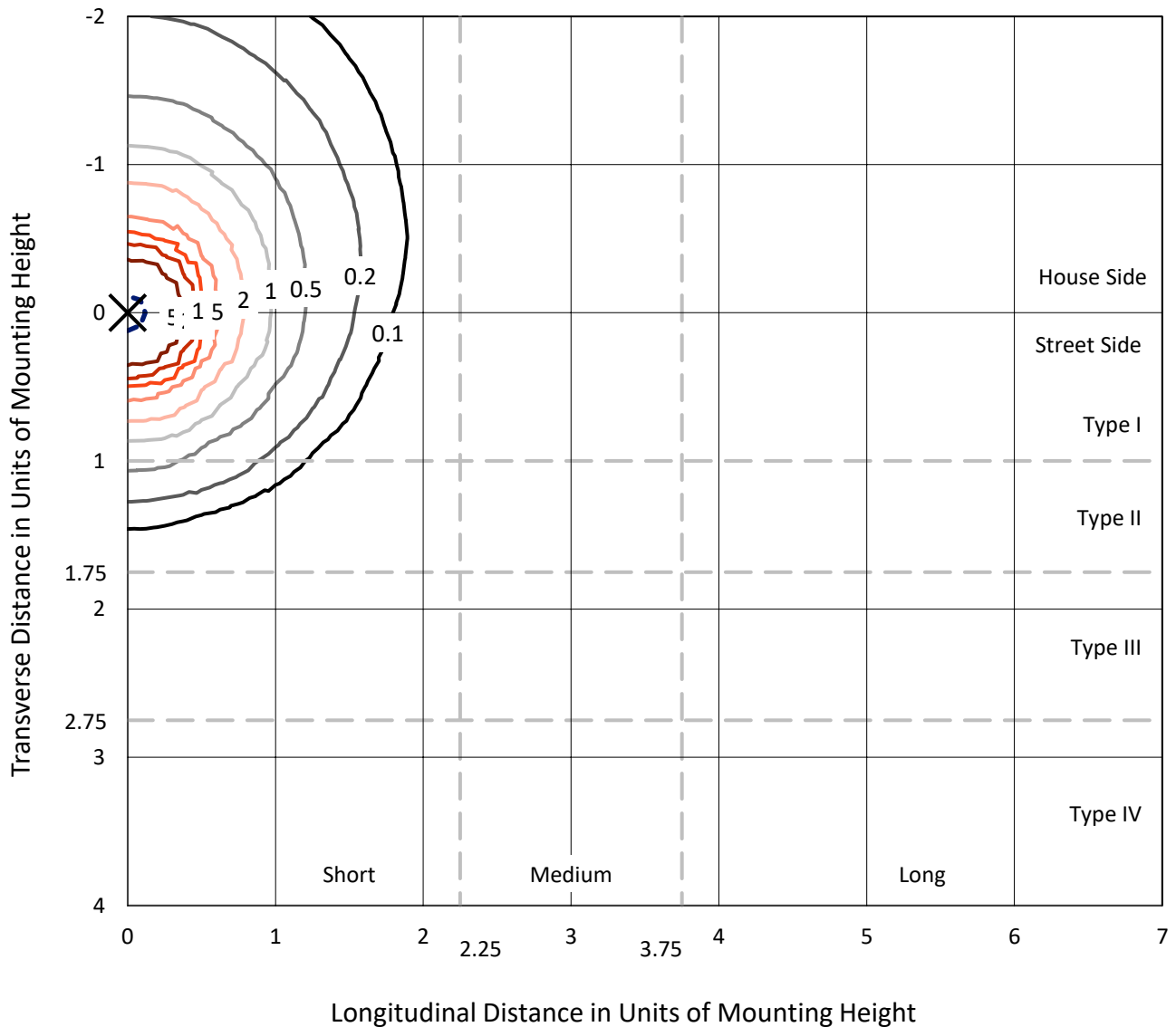
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

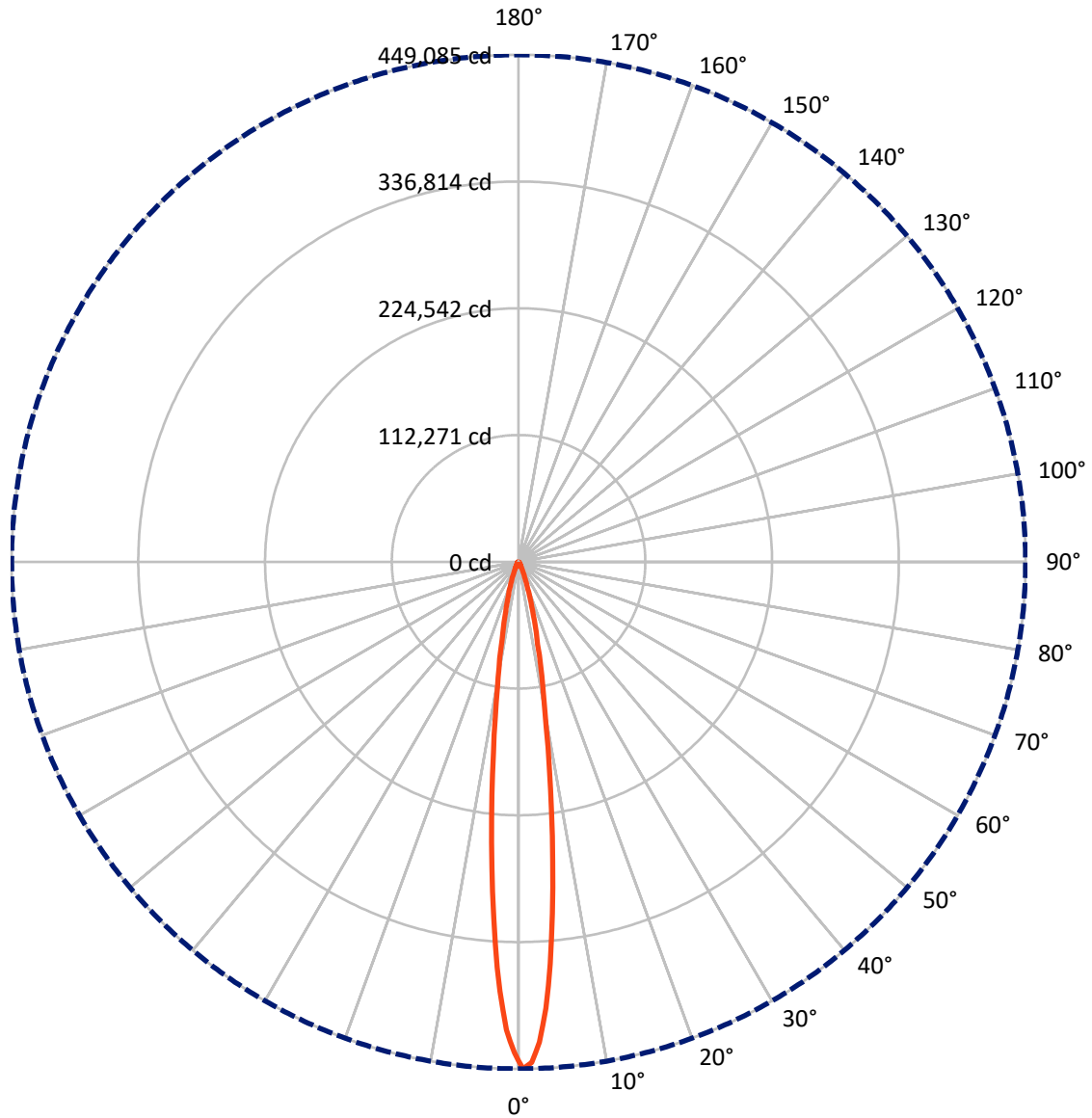
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1122.7 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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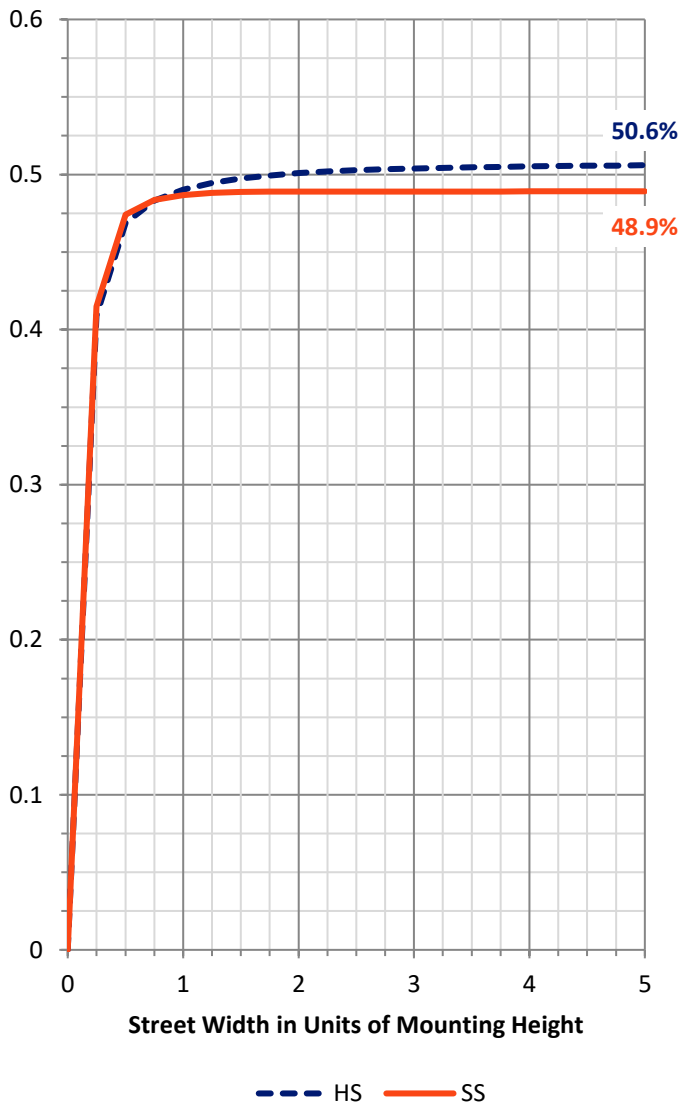
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23155.9	0.0	23155.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	22054.4	0.0	22054.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	45210.3	0.0	45210.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22823.5	50.5
10°-20°	14611.5	32.3
20°-30°	4391.9	9.7
30°-40°	1430.0	3.2
40°-50°	832.0	1.8
50°-60°	552.7	1.2
60°-70°	332.7	0.7
70°-80°	171.0	0.4
80°-90°	65.0	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°	45210.3	100.0
0°-180°	45210.3	100.0

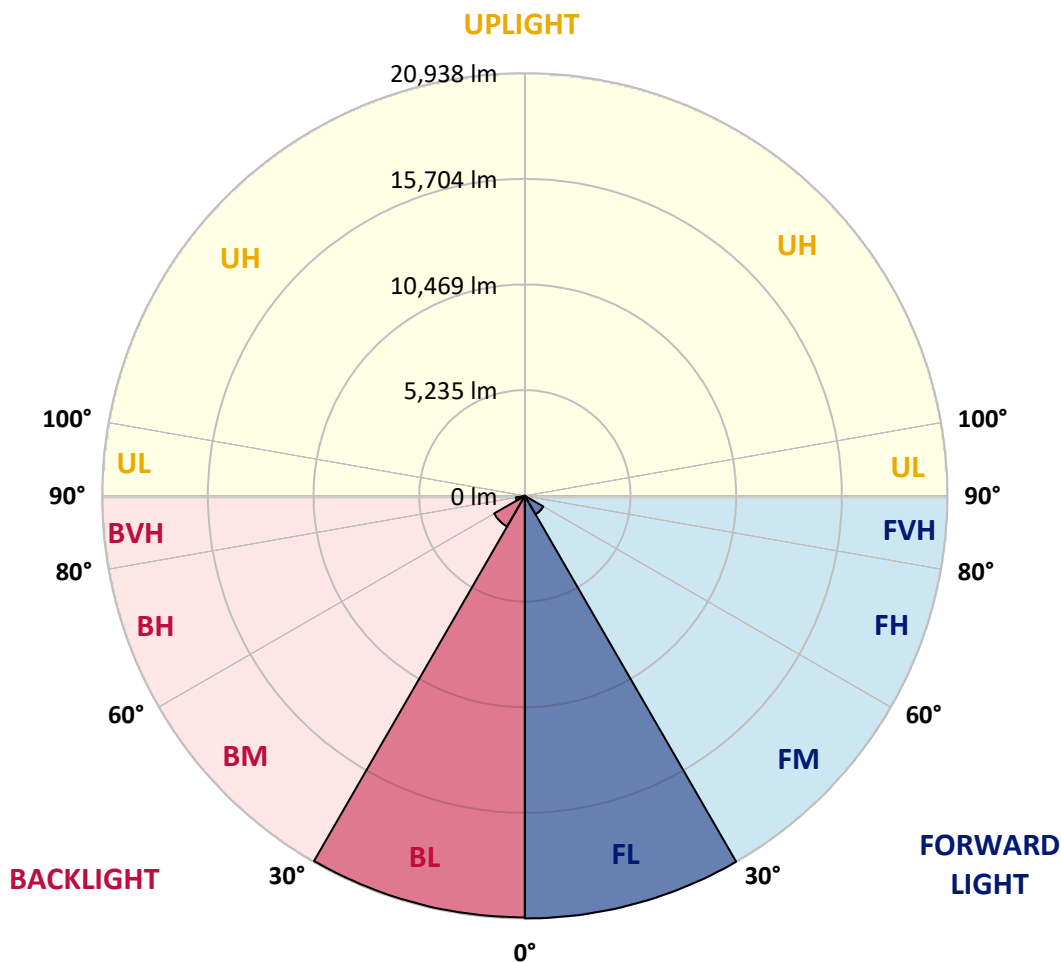


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20938.3	46.3			
FM (30°-60°)	1056.6	2.3			
FH (60°-80°)	49.7	0.1			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	20888.7	46.2	B5		
BM (30°-60°)	1758.1	3.9	B2/2500		
BH (60°-80°)	453.9	1.0	B1/500		G0/660
BVH (80°-90°)	55.2	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°	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9
1°	443707.8	442353.7	438857.5	441344.2	443530.5	442895.3	442851.0	442614.6	442284.7	444874.8
2°	425971.1	425094.6	419924.3	422056.4	425163.5	422898.4	424316.6	423070.8	423095.4	426187.8
3°	396071.8	396549.5	388301.6	392176.8	396495.3	391004.9	392708.6	395909.3	392556.0	391546.6
4°	357210.6	353064.5	348559.0	352498.3	353616.0	350420.3	353561.9	357481.5	352823.3	353030.1
5°	312844.3	309781.5	304448.7	306881.2	304108.9	305118.4	309825.8	311440.9	308191.0	304099.1
6°	267227.2	265050.8	258383.5	261889.5	260904.7	260333.5	266276.9	261352.7	263125.4	260648.6
7°	222279.8	218212.5	214938.0	218296.2	218512.9	216794.4	224510.5	223614.3	220389.0	219640.5
8°	184162.2	180104.7	177332.4	179833.9	181468.7	178770.3	182399.4	184782.6	182261.5	182488.0
9°	148536.2	147822.2	143966.6	147236.2	149013.8	146123.3	150141.4	151003.2	148644.5	149791.8
10°	121960.7	121128.5	118050.9	119375.5	122320.1	118873.3	122728.8	123009.5	121128.5	121665.2
12.5°	75368.6	75033.8	74950.1	75142.1	75102.7	75713.3	76698.1	75575.4	75427.7	73571.3
15°	48714.3	49211.7	48699.6	49684.4	49827.2	50403.3	49802.6	48896.5	47168.2	46311.4
17.5°	30401.5	31036.7	31913.2	33356.0	34798.8	34966.2	34168.5	33104.9	32267.8	31351.9
20°	17490.5	17800.7	17667.8	19396.1	23128.6	24143.0	23113.8	21996.1	20986.6	20060.9
22.5°	10867.5	10754.3	10961.1	11542.1	12758.4	15895.1	15053.0	13935.3	13201.6	12438.3
25°	6662.3	6785.4	6706.7	7026.7	7573.3	8902.8	9094.9	8612.3	8238.1	7844.1
27.5°	4288.9	4288.9	4323.4	4500.6	4874.9	4830.6	5854.8	5480.5	5278.7	5086.6
30°	2979.1	2988.9	2988.9	3092.3	3176.1	3028.3	3294.2	3776.8	3683.2	3535.5
32.5°	2210.9	2240.5	2265.1	2319.3	2250.3	2092.8	2156.8	2718.1	2664.0	2609.8
35°	1684.1	1708.7	1767.8	1797.3	1698.8	1600.3	1541.3	1999.2	2023.8	2009.0
37.5°	1226.1	1240.9	1349.2	1462.5	1349.2	1260.6	1226.1	1536.3	1654.5	1639.7
40°	940.5	945.4	965.1	1093.2	1093.2	1024.2	1034.1	1147.3	1354.1	1354.1
42.5°	807.6	807.6	827.3	807.6	812.5	886.3	911.0	925.7	1147.3	1147.3
45°	699.2	699.2	709.1	659.8	610.6	763.2	782.9	787.9	965.1	989.7
47.5°	586.0	586.0	605.7	541.7	517.0	605.7	659.8	674.6	832.2	851.9
50°	433.3	438.2	497.3	443.2	457.9	467.8	571.2	581.0	704.1	748.5
52.5°	290.5	290.5	300.4	344.7	398.9	384.1	462.9	497.3	561.4	620.4
55°	236.4	236.4	231.4	221.6	295.4	320.1	339.8	413.6	457.9	531.8
57.5°	162.5	172.3	157.6	182.2	192.0	241.3	256.1	325.0	349.6	448.1
60°	19.7	24.6	34.5	133.0	128.0	162.5	192.0	256.1	285.6	344.7
62.5°	4.9	4.9	9.8	24.6	88.6	108.3	152.6	177.3	206.8	265.9
65°	0.0	0.0	4.9	9.8	19.7	59.1	78.8	103.4	147.7	187.1
67.5°	0.0	0.0	4.9	9.8	9.8	24.6	39.4	64.0	78.8	137.9
70°	0.0	0.0	4.9	9.8	9.8	19.7	24.6	29.5	54.2	73.9
72.5°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	24.6	24.6	49.2
75°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	24.6	19.7	19.7
77.5°	0.0	0.0	4.9	9.8	19.7	24.6	29.5	24.6	14.8	14.8
80°	0.0	0.0	4.9	14.8	24.6	34.5	39.4	29.5	14.8	9.8
82.5°	0.0	0.0	9.8	19.7	29.5	39.4	54.2	44.3	19.7	9.8
85°	0.0	0.0	4.9	14.8	29.5	39.4	78.8	54.2	24.6	4.9
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	29.5	19.7	9.8	4.9
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°
449084.9	0°	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9	449084.9
441885.9	1°	444973.3	445283.5	444269.1	445839.9	445288.4	442058.2	440989.7	439724.2
424370.8	2°	423070.8	424651.4	424730.2	426473.4	426448.7	422681.8	421514.8	423666.6
393595.0	3°	392403.4	394245.0	392585.5	395682.8	394752.2	390182.6	388995.9	391438.2
354664.9	4°	353606.2	353256.6	352685.4	350922.5	353094.1	349977.1	347628.3	350942.2
309525.4	5°	308905.0	308127.0	307014.1	306492.2	308107.3	306113.0	301282.5	306122.9
265129.5	6°	265454.5	262106.1	261943.6	261653.1	261815.6	256231.7	256566.5	260171.0
217065.2	7°	219359.8	219975.3	218719.7	220733.7	219197.3	215415.6	213958.1	217754.6
183482.7	8°	182202.4	181424.4	180464.2	183472.8	180808.9	178327.1	176628.3	179627.1
149978.9	9°	149698.3	148354.0	147379.0	147226.4	147640.0	142981.8	143927.2	146197.2
121960.7	10°	122005.0	119799.0	120335.7	120478.5	120025.5	116972.5	117002.1	117785.0
74802.4	12.5°	74536.4	73453.1	73724.0	73871.7	74792.5	73719.0	72202.4	71109.3
47163.2	15°	46848.1	46070.1	47660.6	48729.1	48512.5	47557.2	46843.2	45853.4
31351.9	17.5°	31061.4	32080.7	32085.6	33060.6	33159.0	32203.8	31652.3	30761.0
20390.8	20°	20316.9	20740.4	21621.8	22311.2	22710.1	21981.3	21321.5	20710.9
12714.1	22.5°	12714.1	13452.7	14004.2	14900.4	15264.8	14733.0	14265.2	13767.8
7937.7	25°	7804.7	8331.6	8789.6	9567.6	10064.9	9808.9	9380.5	9030.8
5126.0	27.5°	5204.8	5426.4	5652.9	6189.6	6706.7	6563.9	6391.5	6179.8
3614.3	30°	3668.5	3688.2	3929.5	4229.8	4574.5	4663.1	4584.4	4476.0
2654.1	32.5°	2703.3	2782.1	2895.4	3082.5	3313.9	3525.7	3486.3	3437.0
2028.7	35°	2087.8	2206.0	2299.6	2442.4	2565.5	2767.4	2801.8	2787.1
1669.3	37.5°	1703.7	1807.2	1900.7	1984.4	2087.8	2225.7	2334.0	2339.0
1378.8	40°	1413.2	1506.8	1629.9	1693.9	1767.8	1871.2	2004.1	2014.0
1167.0	42.5°	1191.6	1280.3	1403.4	1482.2	1536.3	1634.8	1767.8	1787.5
999.6	45°	1024.2	1078.4	1206.4	1300.0	1354.1	1418.1	1560.9	1580.6
861.7	47.5°	891.3	945.4	1024.2	1157.2	1206.4	1265.5	1378.8	1413.2
763.2	50°	782.9	837.1	906.0	1024.2	1098.1	1147.3	1240.9	1290.1
664.8	52.5°	694.3	748.5	822.3	915.9	999.6	1043.9	1132.5	1196.6
541.7	55°	581.0	674.6	728.8	812.5	925.7	965.1	1034.1	1117.8
472.7	57.5°	507.2	586.0	664.8	733.7	846.9	896.2	965.1	1043.9
374.2	60°	428.4	502.3	595.8	654.9	763.2	827.3	901.1	975.0
285.6	62.5°	339.8	438.2	502.3	586.0	689.4	773.1	832.2	906.0
221.6	65°	251.1	359.5	433.3	522.0	620.4	709.1	758.3	837.1
157.6	67.5°	182.2	280.7	369.3	453.0	546.6	635.2	684.5	753.4
98.5	70°	142.8	206.8	305.3	379.2	477.6	551.5	605.7	650.0
64.0	72.5°	83.7	157.6	246.2	329.9	418.6	467.8	507.2	546.6
29.5	75°	54.2	123.1	201.9	275.8	339.8	384.1	418.6	453.0
14.8	77.5°	34.5	88.6	162.5	231.4	261.0	315.1	344.7	364.4
9.8	80°	19.7	68.9	142.8	187.1	211.7	246.2	275.8	300.4
9.8	82.5°	14.8	59.1	118.2	157.6	157.6	197.0	211.7	211.7
4.9	85°	9.8	49.2	93.6	147.7	118.2	147.7	137.9	137.9
4.9	87.5°	9.8	34.5	44.3	64.0	54.2	64.0	64.0	73.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
449084.9  
434711.4  
414552.1  
380590.4  
338947.1  
293369.4  
249722.0  
207428.7  
171064.0  
139106.5  
112457.1  
70444.5  
45346.2  
30539.4  
20499.1  
13501.9  
8829.0  
6056.7  
4402.2  
3397.6  
2737.8  
2304.5  
1999.2  
1772.7  
1575.7  
1418.1  
1295.0  
1196.6  
1122.7  
1048.8  
994.7  
940.5  
851.9  
758.3  
664.8  
556.4  
453.0  
354.5  
270.8  
197.0  
133.0  
73.9  
0.0

(END OF REPORT)