

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: P638594

Luminaire Tested: **EPH-VN-03-E-930-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638594  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-930-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (48) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17167.7 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

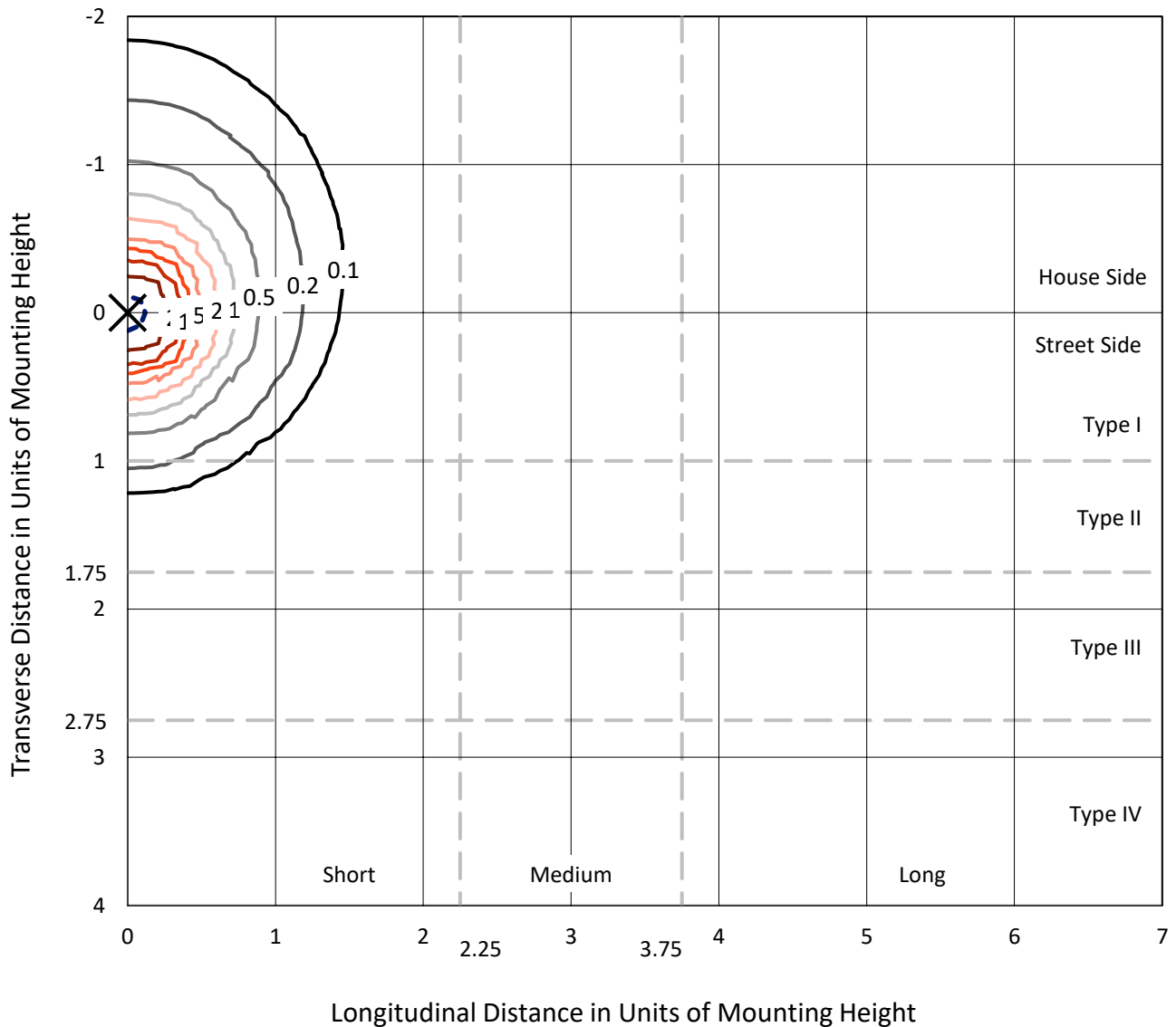
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

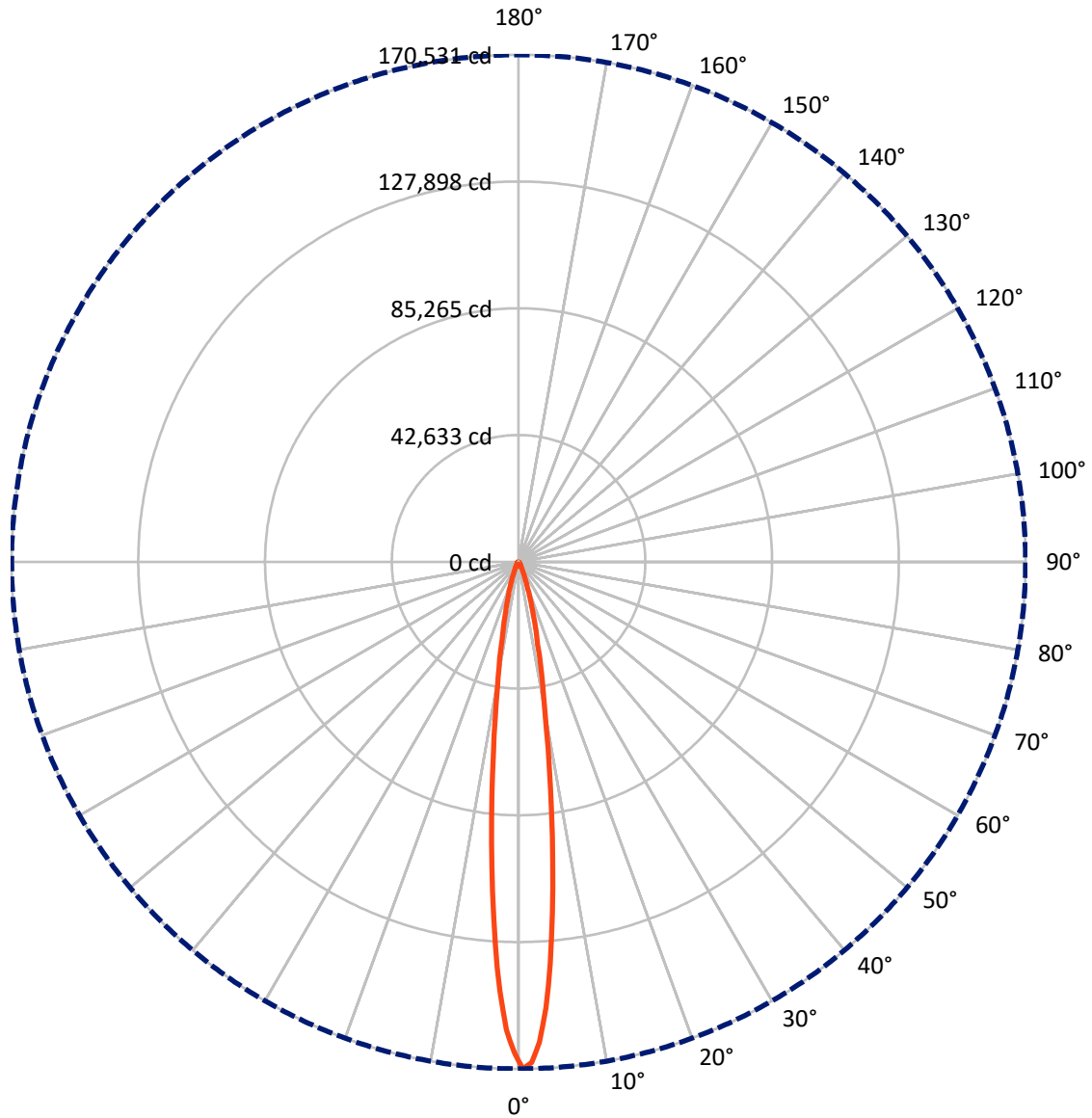
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 426.3 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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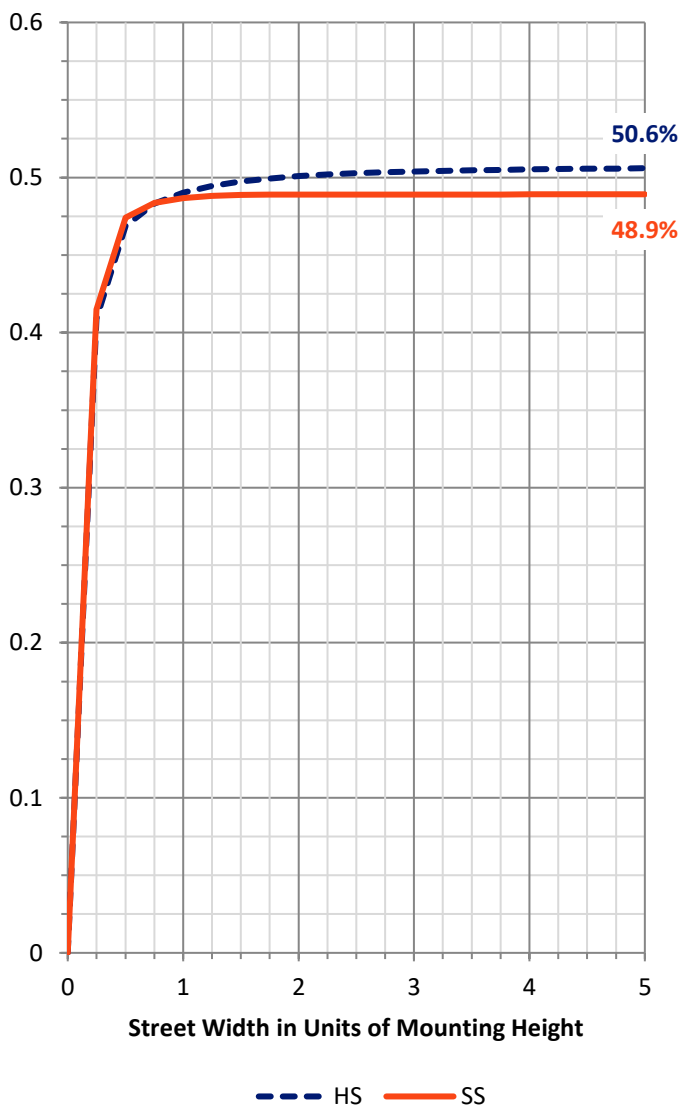
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8793.0	0.0	8793.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	8374.7	0.0	8374.7
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	17167.7	0.0	17167.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8666.8	50.5
10°-20°	5548.4	32.3
20°-30°	1667.7	9.7
30°-40°	543.0	3.2
40°-50°	315.9	1.8
50°-60°	209.9	1.2
60°-70°	126.3	0.7
70°-80°	64.9	0.4
80°-90°	24.7	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°	17167.7	100.0
0°-180°	17167.7	100.0

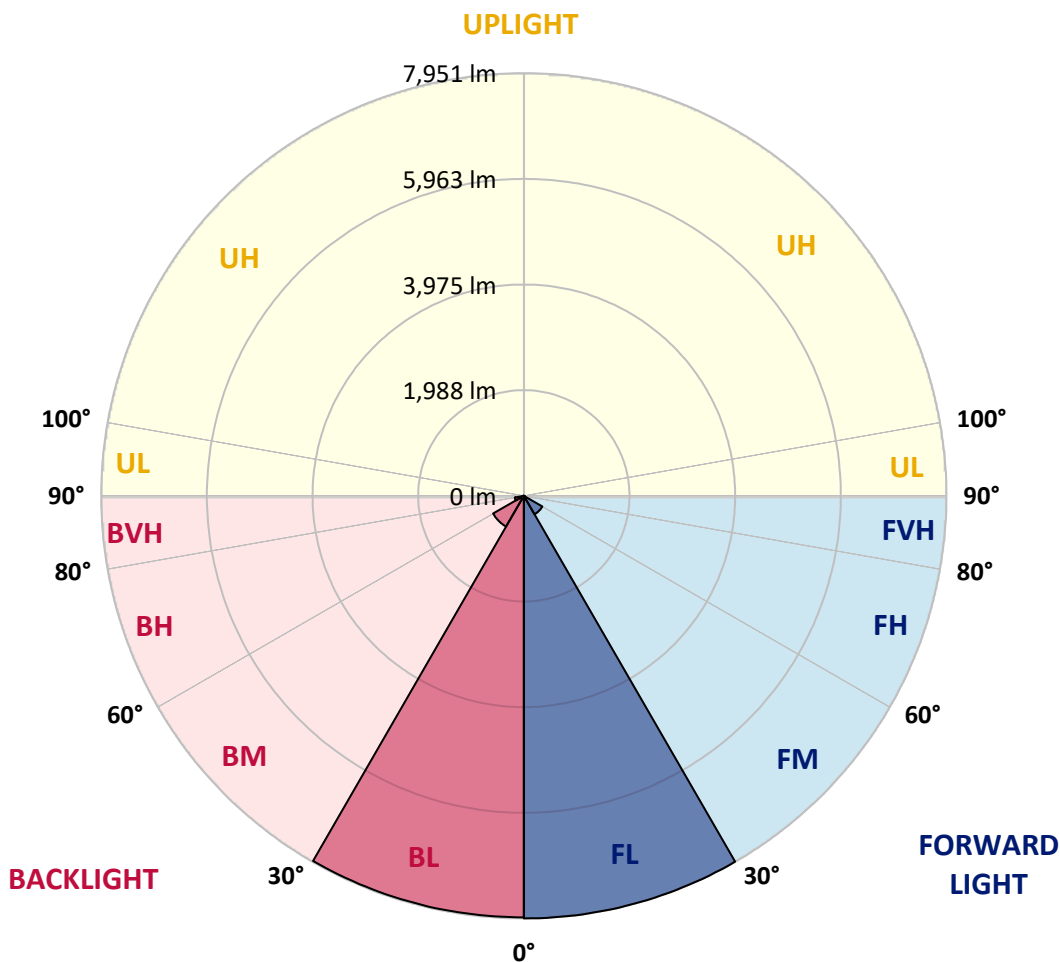


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7950.9	46.3			
FM (30°-60°)	401.2	2.3			
FH (60°-80°)	18.9	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7932.0	46.2	B5		
BM (30°-60°)	667.6	3.9	B1/1000		
BH (60°-80°)	172.4	1.0	B1/500		G0/660
BVH (80°-90°)	20.9	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°	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7
1°	168488.9	167974.7	166647.1	167591.4	168421.6	168180.3	168163.5	168073.8	167948.5	168932.0
2°	161753.7	161420.9	159457.6	160267.2	161447.1	160587.0	161125.5	160652.4	160661.7	161836.0
3°	150400.1	150581.5	147449.5	148921.1	150560.9	148476.0	149123.0	150338.4	149065.0	148681.7
4°	135643.4	134069.0	132358.1	133853.9	134278.4	133064.9	134257.8	135746.2	133977.3	134055.9
5°	118796.2	117633.1	115608.1	116531.8	115479.1	115862.4	117650.0	118263.3	117029.2	115475.3
6°	101474.0	100647.6	98115.8	99447.1	99073.2	98856.3	101113.1	99243.3	99916.4	98975.9
7°	84406.2	82861.7	81618.3	82893.5	82975.8	82323.2	85253.2	84912.9	83688.2	83403.9
8°	69931.8	68391.0	67338.3	68288.2	68909.0	67884.3	69262.4	70167.4	69210.0	69296.0
9°	56403.5	56132.4	54668.3	55909.9	56584.9	55487.3	57013.1	57340.3	56444.7	56880.4
10°	46312.0	45996.0	44827.4	45330.4	46448.5	45139.7	46603.7	46710.3	45996.0	46199.9
12.5°	28619.7	28492.5	28460.7	28533.7	28518.7	28750.6	29124.5	28698.2	28642.1	27937.2
15°	18498.3	18687.1	18492.7	18866.6	18920.9	19139.6	18911.5	18567.5	17911.1	17585.8
17.5°	11544.4	11785.6	12118.4	12666.3	13214.1	13277.7	12974.8	12570.9	12253.0	11905.2
20°	6641.7	6759.4	6709.0	7365.3	8782.6	9167.8	8777.0	8352.5	7969.2	7617.7
22.5°	4126.7	4083.7	4162.3	4382.9	4844.7	6035.8	5716.1	5291.6	5013.0	4723.2
25°	2529.9	2576.6	2546.7	2668.3	2875.8	3380.7	3453.6	3270.3	3128.2	2978.6
27.5°	1628.6	1628.6	1641.7	1709.0	1851.1	1834.3	2223.2	2081.1	2004.5	1931.5
30°	1131.2	1135.0	1135.0	1174.3	1206.0	1149.9	1250.9	1434.2	1398.6	1342.5
32.5°	839.6	850.8	860.1	880.7	854.5	794.7	819.0	1032.1	1011.6	991.0
35°	639.5	648.8	671.3	682.5	645.1	607.7	585.3	759.2	768.5	762.9
37.5°	465.6	471.2	512.3	555.3	512.3	478.7	465.6	583.4	628.3	622.7
40°	357.1	359.0	366.5	415.1	415.1	388.9	392.7	435.7	514.2	514.2
42.5°	306.7	306.7	314.1	306.7	308.5	336.6	345.9	351.5	435.7	435.7
45°	265.5	265.5	269.3	250.6	231.9	289.8	297.3	299.2	366.5	375.8
47.5°	222.5	222.5	230.0	205.7	196.3	230.0	250.6	256.2	316.0	323.5
50°	164.5	166.4	188.9	168.3	173.9	177.6	216.9	220.6	267.4	284.2
52.5°	110.3	110.3	114.1	130.9	151.5	145.8	175.8	188.9	213.2	235.6
55°	89.8	89.8	87.9	84.1	112.2	121.5	129.0	157.1	173.9	201.9
57.5°	61.7	65.4	59.8	69.2	72.9	91.6	97.2	123.4	132.8	170.2
60°	7.5	9.3	13.1	50.5	48.6	61.7	72.9	97.2	108.5	130.9
62.5°	1.9	1.9	3.7	9.3	33.7	41.1	58.0	67.3	78.5	101.0
65°	0.0	0.0	1.9	3.7	7.5	22.4	29.9	39.3	56.1	71.1
67.5°	0.0	0.0	1.9	3.7	3.7	9.3	15.0	24.3	29.9	52.4
70°	0.0	0.0	1.9	3.7	3.7	7.5	9.3	11.2	20.6	28.0
72.5°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	9.3	9.3	18.7
75°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	9.3	7.5	7.5
77.5°	0.0	0.0	1.9	3.7	7.5	9.3	11.2	9.3	5.6	5.6
80°	0.0	0.0	1.9	5.6	9.3	13.1	15.0	11.2	5.6	3.7
82.5°	0.0	0.0	3.7	7.5	11.2	15.0	20.6	16.8	7.5	3.7
85°	0.0	0.0	1.9	5.6	11.2	15.0	29.9	20.6	9.3	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.7	11.2	7.5	3.7	1.9
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°
170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7	170530.7
167797.0	168969.4	169087.2	168702.0	169298.5	169089.1	167862.5	167456.7	166976.2	166284.3
161146.0	160652.4	161252.6	161282.5	161944.5	161935.1	160504.7	160061.5	160878.6	159283.7
149459.6	149007.1	149706.4	149076.3	150252.4	149899.0	148163.8	147713.1	148640.6	147481.3
134676.7	134274.6	134141.9	133925.0	133255.6	134080.2	132896.6	132004.7	133263.1	130783.7
117535.9	117300.3	117004.9	116582.3	116384.1	116997.4	116240.1	114405.8	116243.8	111821.7
100677.5	100800.9	99529.4	99467.7	99357.4	99419.1	97298.7	97425.8	98794.5	95114.7
82426.0	83297.4	83531.1	83054.3	83819.0	83235.7	81799.6	81246.2	82687.8	80086.9
69673.8	69187.6	68892.2	68527.5	69670.0	68658.4	67716.0	67070.9	68209.7	66278.1
56951.4	56844.8	56334.4	55964.1	55906.2	56063.2	54294.4	54653.4	55515.4	54352.3
46312.0	46328.9	45491.2	45695.0	45749.2	45577.2	44417.9	44429.1	44726.4	43327.8
28404.6	28303.7	27892.3	27995.2	28051.2	28400.9	27993.3	27417.4	27002.3	26792.9
17909.3	17789.6	17494.2	18098.1	18503.9	18421.6	18058.9	17787.7	17411.9	17109.0
11905.2	11794.9	12182.0	12183.8	12554.1	12591.5	12228.7	12019.3	11680.9	11695.8
7743.0	7714.9	7875.7	8210.4	8472.2	8623.7	8346.9	8096.4	7864.5	7767.3
4827.9	4827.9	5108.4	5317.8	5658.1	5796.5	5594.5	5416.9	5228.1	5112.1
3014.2	2963.7	3163.8	3337.7	3633.1	3821.9	3724.7	3562.0	3429.3	3367.6
1946.5	1976.4	2060.6	2146.6	2350.4	2546.7	2492.5	2427.0	2346.6	2318.6
1372.5	1393.0	1400.5	1492.1	1606.2	1737.1	1770.7	1740.8	1699.7	1667.9
1007.8	1026.5	1056.5	1099.5	1170.5	1258.4	1338.8	1323.8	1305.1	1290.2
770.4	792.8	837.7	873.2	927.4	974.2	1050.8	1063.9	1058.3	1047.1
633.9	647.0	686.2	721.8	753.5	792.8	845.2	886.3	888.2	877.0
523.6	536.6	572.2	618.9	643.2	671.3	710.5	761.0	764.8	761.0
443.2	452.5	486.2	532.9	562.8	583.4	620.8	671.3	678.7	671.3
379.6	388.9	409.5	458.1	493.6	514.2	538.5	592.7	600.2	598.3
327.2	338.4	359.0	388.9	439.4	458.1	480.5	523.6	536.6	536.6
289.8	297.3	317.9	344.0	388.9	417.0	435.7	471.2	489.9	489.9
252.4	263.6	284.2	312.3	347.8	379.6	396.4	430.1	454.4	454.4
205.7	220.6	256.2	276.7	308.5	351.5	366.5	392.7	424.5	424.5
179.5	192.6	222.5	252.4	278.6	321.6	340.3	366.5	396.4	400.1
142.1	162.7	190.7	226.2	248.7	289.8	314.1	342.2	370.2	377.7
108.5	129.0	166.4	190.7	222.5	261.8	293.6	316.0	344.0	355.3
84.1	95.4	136.5	164.5	198.2	235.6	269.3	288.0	317.9	325.4
59.8	69.2	106.6	140.2	172.0	207.6	241.2	259.9	286.1	291.7
37.4	54.2	78.5	115.9	144.0	181.4	209.4	230.0	246.8	252.4
24.3	31.8	59.8	93.5	125.3	158.9	177.6	192.6	207.6	211.3
11.2	20.6	46.7	76.7	104.7	129.0	145.8	158.9	172.0	173.9
5.6	13.1	33.7	61.7	87.9	99.1	119.7	130.9	138.4	134.6
3.7	7.5	26.2	54.2	71.1	80.4	93.5	104.7	114.1	104.7
3.7	5.6	22.4	44.9	59.8	59.8	74.8	80.4	80.4	76.7
1.9	3.7	18.7	35.5	56.1	44.9	56.1	52.4	52.4	52.4
1.9	3.7	13.1	16.8	24.3	20.6	24.3	24.3	28.0	28.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
170530.7  
165072.7  
157417.6  
144521.3  
128708.2  
111401.0  
94826.8  
78766.8  
64958.0  
52822.8  
42703.3  
26749.8  
17219.3  
11596.7  
7784.1  
5127.1  
3352.6  
2299.9  
1671.6  
1290.2  
1039.6  
875.1  
759.2  
673.1  
598.3  
538.5  
491.8  
454.4  
426.3  
398.3  
377.7  
357.1  
323.5  
288.0  
252.4  
211.3  
172.0  
134.6  
102.8  
74.8  
50.5  
28.0  
0.0

(END OF REPORT)