

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: P574938

Luminaire Tested: **EPH-VN-06-740-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-740-U-5WQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54298.8 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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: 24 FT

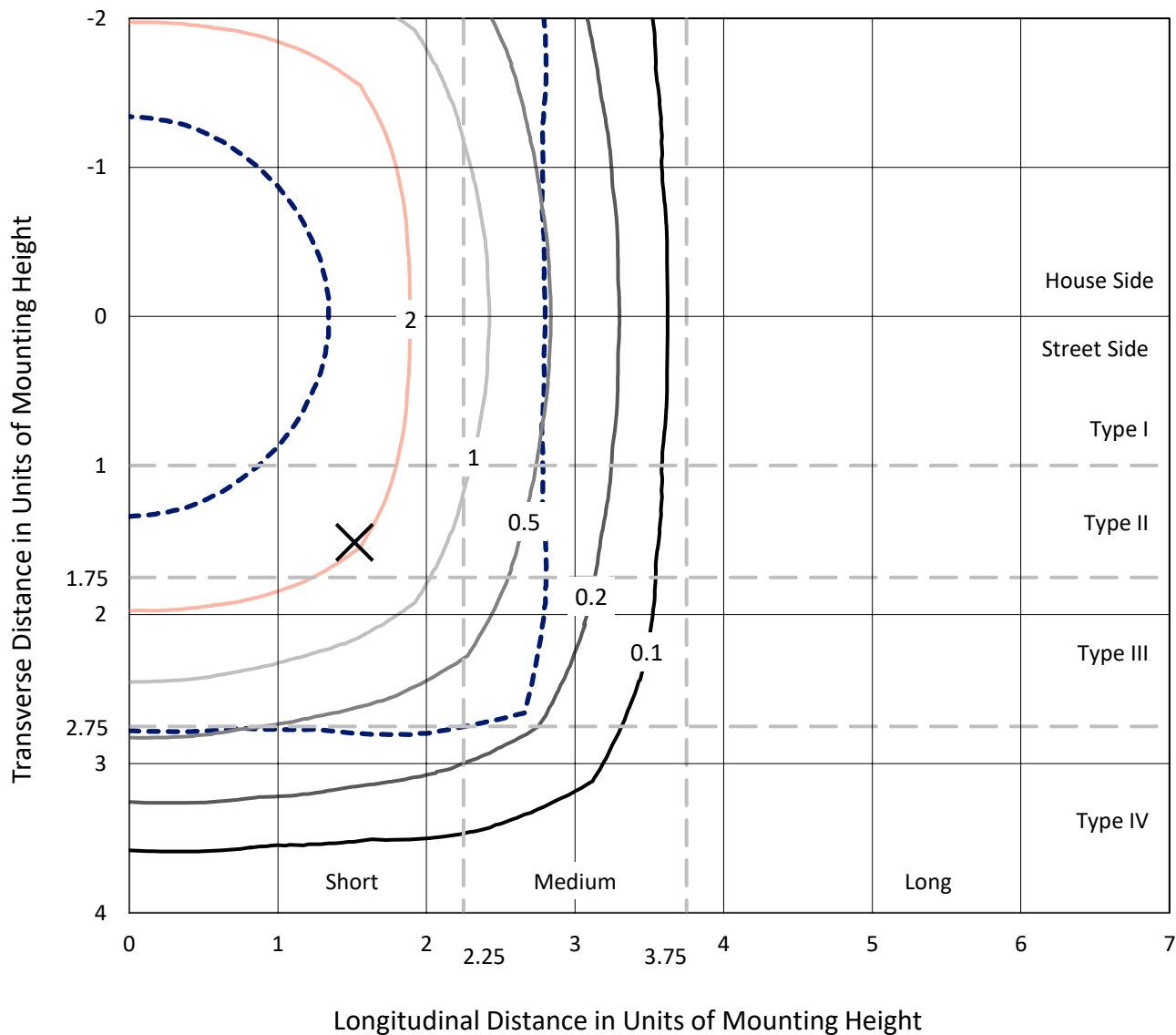
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

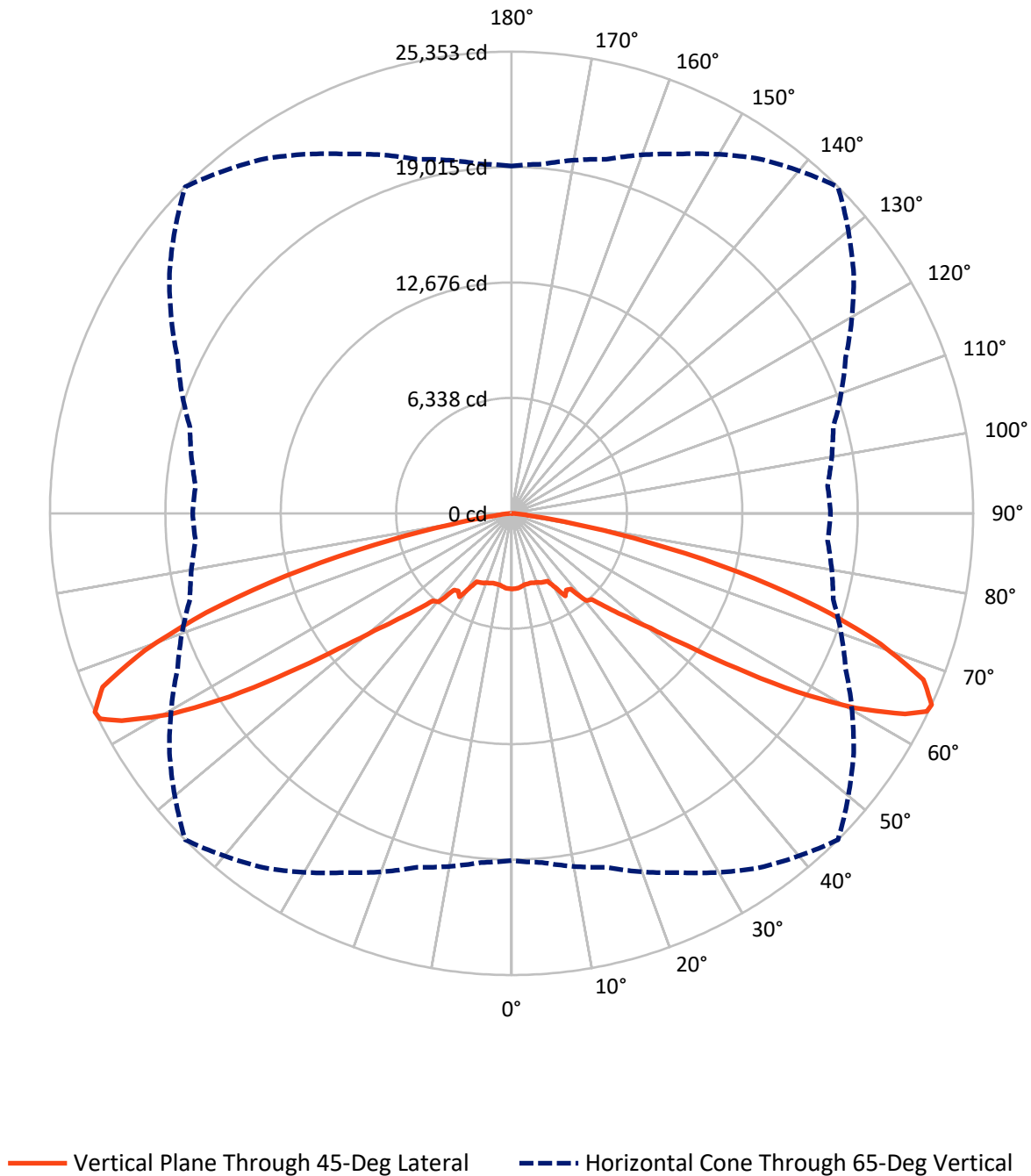


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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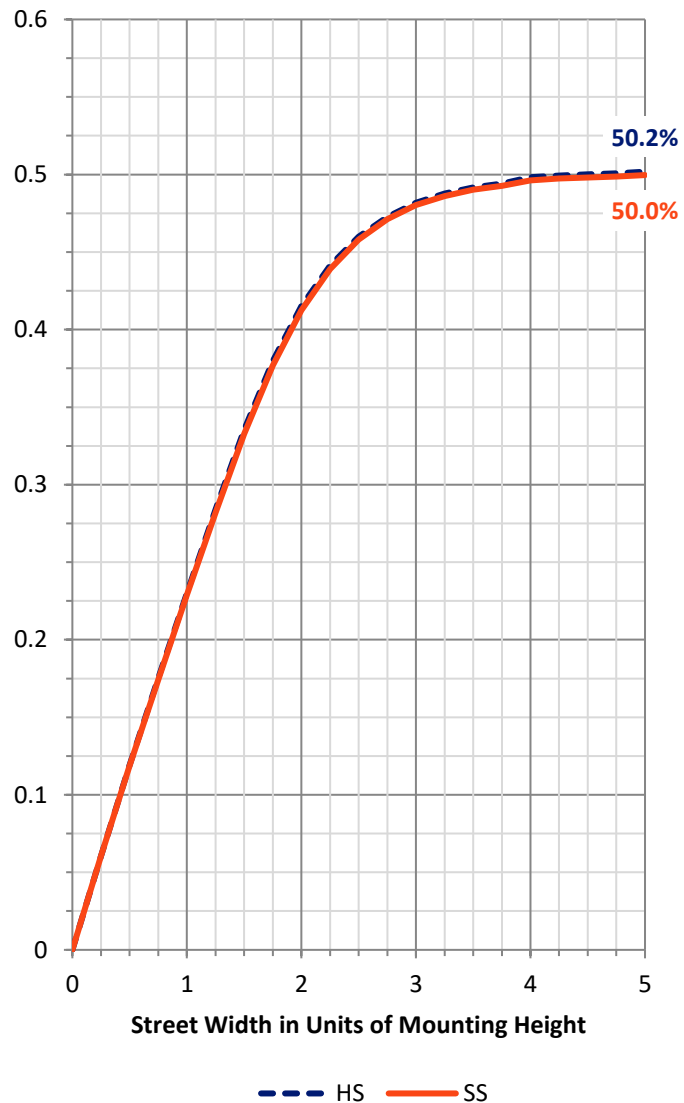
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27149.4	0.0	27149.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27149.4	0.0	27149.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	54298.8	0.0	54298.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.6	0.7
10°-20°	1144.4	2.1
20°-30°	1980.9	3.6
30°-40°	3293.8	6.1
40°-50°	5942.5	10.9
50°-60°	13238.0	24.4
60°-70°	19728.8	36.3
70°-80°	8175.9	15.1
80°-90°	405.0	0.7
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°	54298.8	100.0
0°-180°	54298.8	100.0

Coefficient of Utilization



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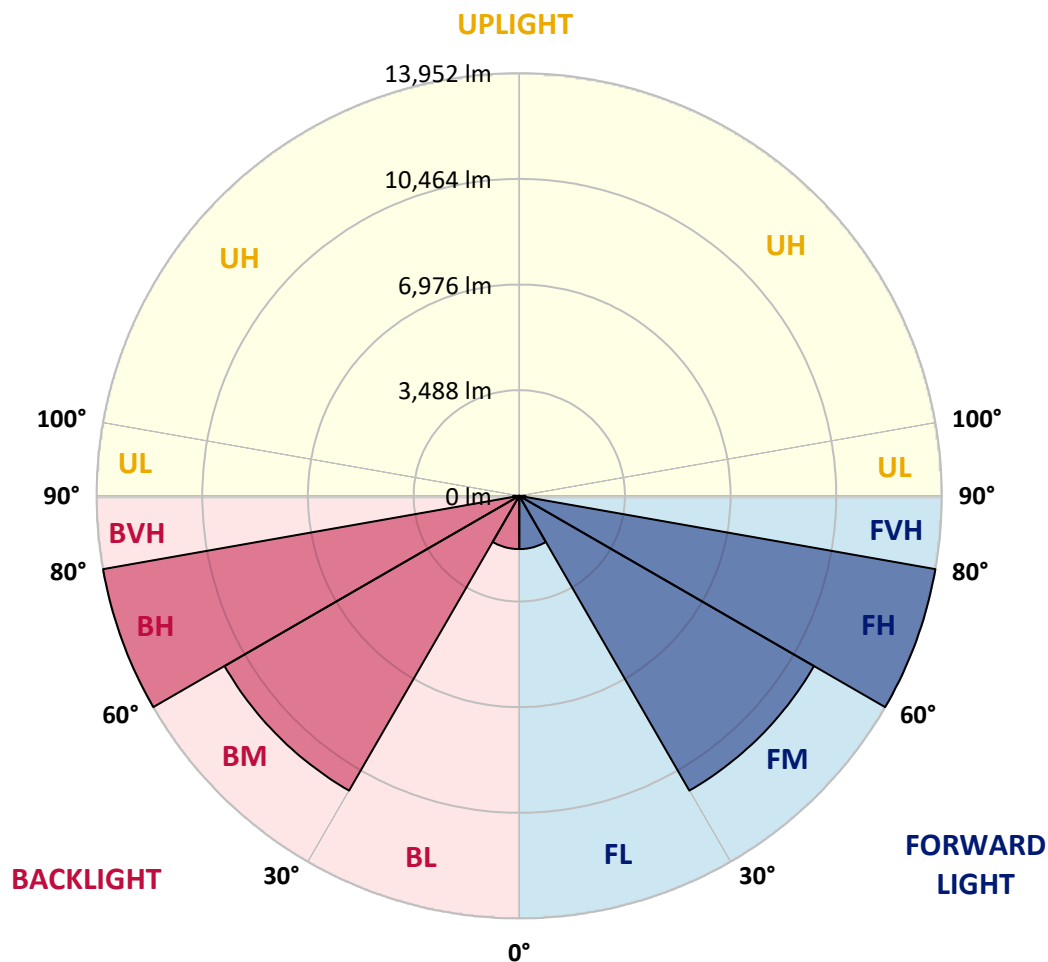
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.4	3.2			
FM	(30°-60°)	11237.2	20.7			
FH	(60°-80°)	13952.3	25.7			G5
FVH	(80°-90°)	202.5	0.4			G2/225
BL	(0°-30°)	1757.4	3.2	B3/2500		
BM	(30°-60°)	11237.2	20.7	B5		
BH	(60°-80°)	13952.3	25.7	B5		G5
BVH	(80°-90°)	202.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5	4151.5
2.5°	4103.5	4115.5	4109.5	4109.5	4127.5	4139.5	4145.5	4205.5	4181.5	4199.5
5°	4115.5	4115.5	4127.5	4115.5	4127.5	4115.5	4127.5	4109.5	4127.5	4139.5
7.5°	4091.5	4079.5	4061.5	4061.5	4055.5	4043.5	4025.5	4073.5	4049.5	4067.5
10°	4097.5	4079.5	4019.5	4031.5	3977.5	3977.5	3989.5	3989.5	4043.5	4103.5
12.5°	4097.5	4061.5	4043.5	3965.5	3965.5	3971.5	4001.5	4013.5	4049.5	4073.5
15°	4097.5	4079.5	4049.5	3947.5	3971.5	3959.5	3989.5	3989.5	4067.5	4109.5
17.5°	4121.5	4133.5	4079.5	3983.5	3989.5	4013.5	3995.5	4013.5	4109.5	4139.5
20°	4127.5	4079.5	4061.5	4001.5	4055.5	4043.5	4037.5	4073.5	4103.5	4157.5
22.5°	4115.5	4133.5	4061.5	4055.5	4103.5	4127.5	4139.5	4097.5	4133.5	4169.5
25°	4217.5	4151.5	4133.5	4121.5	4145.5	4169.5	4157.5	4193.5	4193.5	4235.5
27.5°	4493.4	4499.4	4463.4	4319.5	4271.5	4217.5	4241.5	4337.5	4451.4	4541.4
30°	4619.4	4643.4	4739.4	4715.4	4697.4	4715.4	4709.4	4733.4	4745.4	4751.4
32.5°	4733.4	4721.4	4679.4	4787.4	5141.4	5411.3	5153.4	4799.4	4721.4	4697.4
35°	5147.4	5147.4	5057.4	4919.4	5105.4	5171.3	5051.4	4883.4	4979.4	5177.3
37.5°	5681.3	5603.3	5639.3	5621.3	5417.3	5273.3	5483.3	5591.3	5609.3	5603.3
40°	5999.2	5945.3	5891.3	5987.2	6173.2	6305.2	6119.2	5861.3	5927.3	6059.2
42.5°	6725.2	6587.2	6599.2	6503.2	6497.2	6455.2	6413.2	6431.2	6527.2	6677.2
45°	7469.1	7535.0	7493.1	7313.1	7397.1	7397.1	7277.1	7367.1	7415.1	7589.0
47.5°	8632.9	8602.9	8620.9	8458.9	8452.9	8494.9	8452.9	8458.9	8608.9	8596.9
50°	9994.7	10078.7	10102.7	10024.7	9928.7	9910.8	9844.8	9928.7	10018.7	10024.7
52.5°	11878.5	11968.5	11968.5	11992.5	12112.5	12052.5	12040.5	12046.5	11872.5	11752.5
55°	14254.2	14284.2	14386.2	14596.2	14962.1	15010.1	14782.1	14680.1	14362.2	14170.2
57.5°	16599.9	16719.9	17001.9	17547.8	17997.7	18489.7	17829.8	17157.8	16533.9	16228.0
60°	18549.7	18723.6	19263.6	20025.5	21273.3	21723.3	20607.4	19455.5	18189.7	17253.8
62.5°	19467.5	19737.5	20193.5	21735.3	23607.0	24254.9	22617.1	20523.4	18603.7	17703.8
64°	19473.5	19515.5	20427.4	22089.2	24015.0	25268.8	23103.1	20523.4	18705.6	17595.8
65°	19071.6	19245.6	20127.5	21765.3	23757.0	25352.8	22935.1	20241.4	18285.7	17421.8
67.5°	17247.8	17241.8	18057.7	19683.5	22449.2	24398.9	21507.3	18663.6	17247.8	16311.9
70°	13084.3	13294.3	14074.2	16072.0	19425.6	21513.3	18807.6	15862.0	14098.2	13348.3
72.5°	7829.0	8105.0	9100.9	11536.5	15088.1	17625.8	14926.1	11734.5	9610.8	8422.9
75°	3569.5	3773.5	4457.4	6443.2	10054.7	12886.4	10114.7	6785.1	4865.4	4109.5
77.5°	1001.9	1127.9	1505.8	2957.6	5519.3	7727.0	5675.3	3269.6	2123.7	1763.8
80°	449.9	473.9	533.9	719.9	1751.8	3407.6	2345.7	1199.8	797.9	659.9
82.5°	246.0	264.0	348.0	372.0	497.9	905.9	773.9	563.9	479.9	384.0
85°	138.0	144.0	198.0	198.0	240.0	264.0	282.0	300.0	294.0	216.0
87.5°	42.0	48.0	60.0	60.0	60.0	60.0	96.0	132.0	144.0	102.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4151.5
4181.5
4157.5
4097.5
4121.5
4133.5
4139.5
4181.5
4205.5
4211.5
4289.5
4559.4
4733.4
4721.4
5189.3
5663.3
6005.2
6701.2
7613.0
8530.9
9970.7
11812.5
14320.2
16281.9
17631.8
17685.8
17799.8
17517.8
16425.9
13306.3
8452.9
4001.5
1727.8
629.9
372.0
210.0
102.0
0.0

OF REPORT)