

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: P638799

Luminaire Tested: **EPH-VN-04-E-750-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638799  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-04-E-750-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27518 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

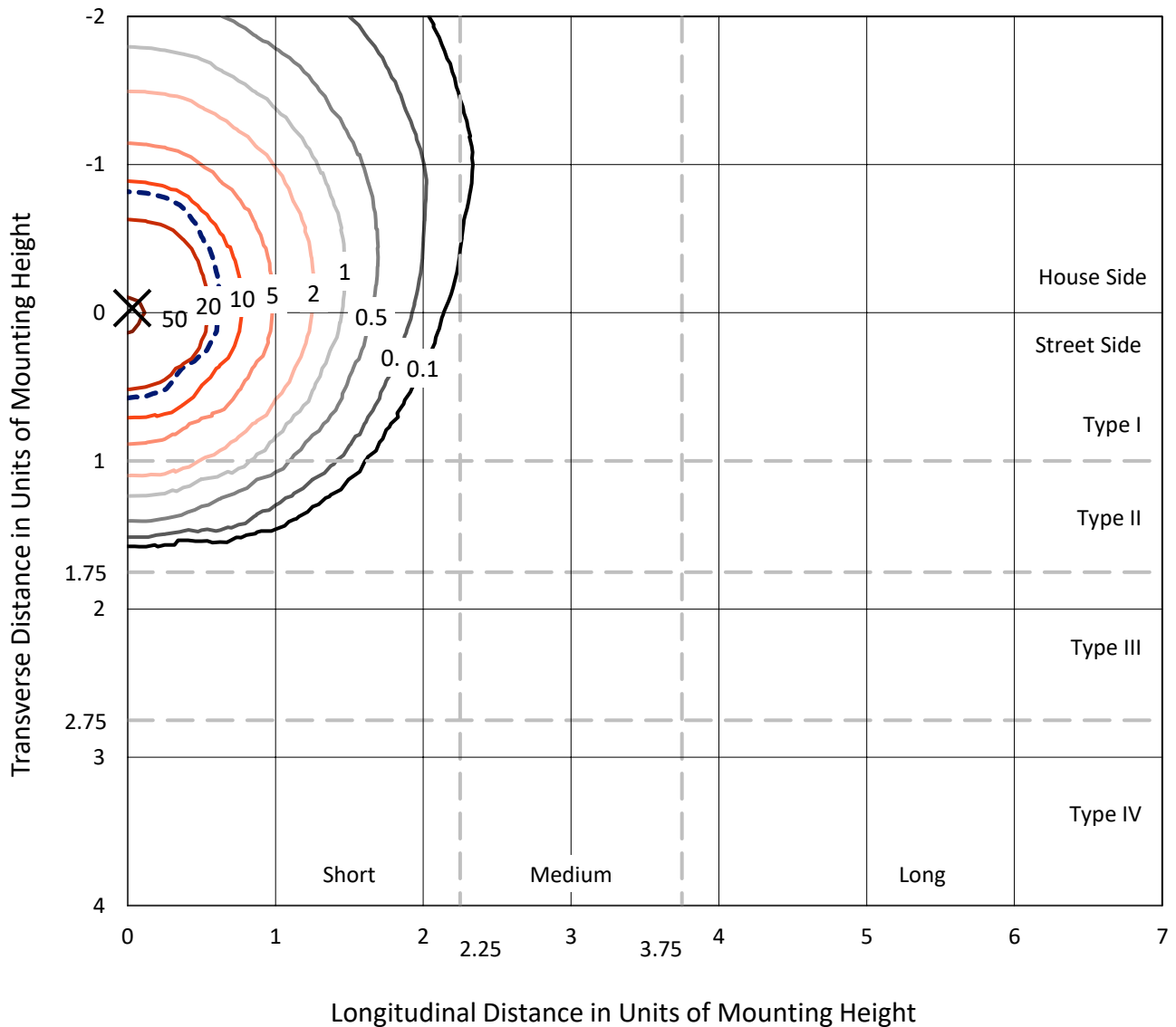
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

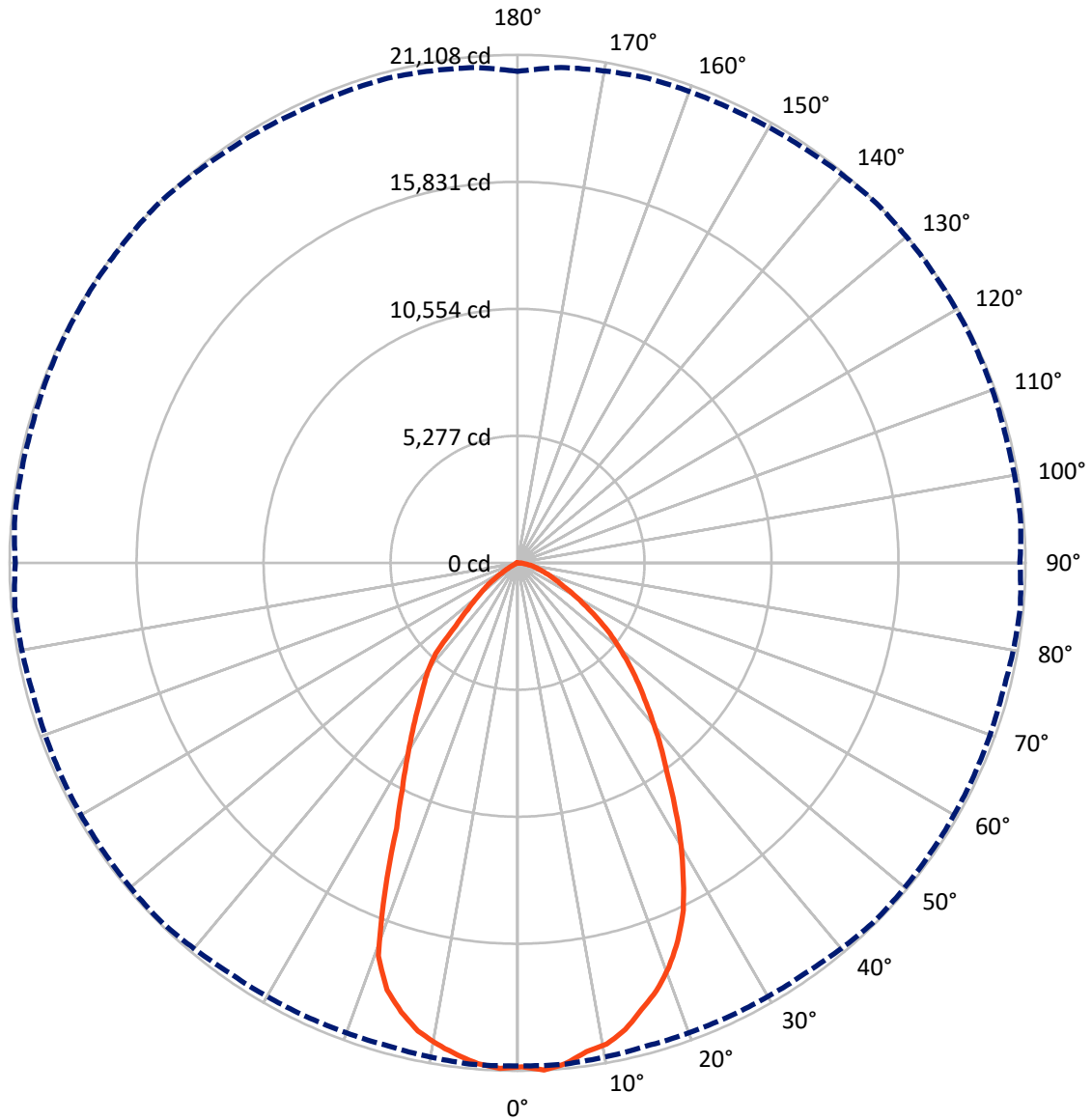
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.4 fc  
 Type I - Short - N/A

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CATALOG NUMBER: EPH-VN-04-E-750-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16297.6	0.0	16297.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11220.5	0.0	11220.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27518.0	0.0	27518.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1963.9	7.1
10°-20°	5266.4	19.1
20°-30°	6422.7	23.3
30°-40°	5863.9	21.3
40°-50°	4237.7	15.4
50°-60°	2313.8	8.4
60°-70°	956.7	3.5
70°-80°	387.5	1.4
80°-90°	105.4	0.4
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°	27518.0	100.0
0°-180°	27518.0	100.0



REPORT NUMBER: P638799

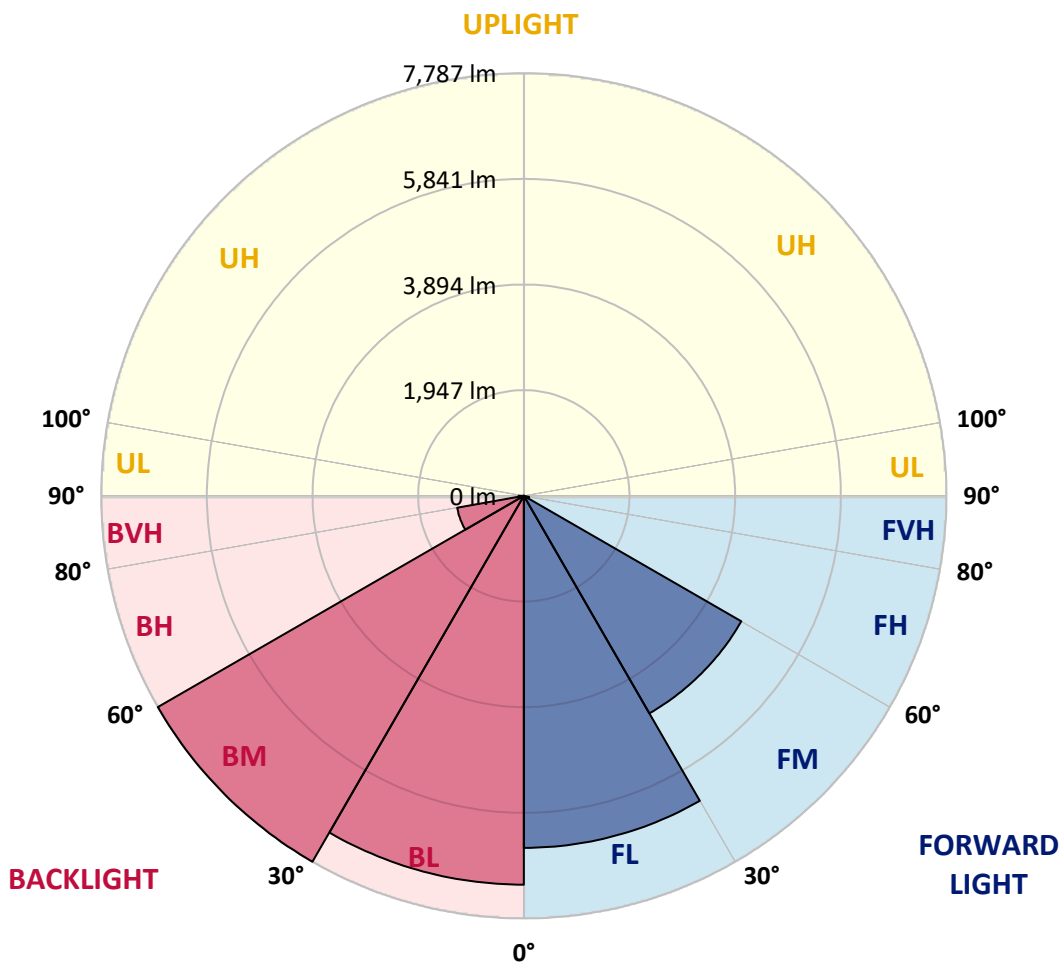
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6487.0	23.6			
FM (30°-60°)	4628.0	16.8			
FH (60°-80°)	97.0	0.4			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	7166.1	26.0	B5		
BM (30°-60°)	7787.4	28.3	B4/8500		
BH (60°-80°)	1247.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	97.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1
2.5°	20902.4	20929.5	20782.2	20797.7	20824.9	21022.5	20972.1	20925.6	20859.8	20972.1
5°	20875.3	20890.8	20735.7	20681.5	20704.7	20883.0	20720.2	20720.2	20704.7	20685.4
7.5°	20666.0	20673.7	20553.6	20456.7	20518.7	20600.1	20480.0	20538.1	20452.9	20518.7
10°	20352.1	20301.7	20158.4	20131.2	20201.0	20278.5	20197.1	20251.4	20173.9	20224.2
12.5°	19891.0	19813.5	19697.2	19662.3	19782.5	19887.1	19821.2	19790.2	19689.5	19813.5
15°	18112.3	18054.2	18317.7	18778.8	19193.5	19282.6	19212.8	19243.8	19034.6	19069.4
17.5°	14907.6	14799.1	15082.0	16174.7	17732.5	18554.1	18492.1	18290.5	17980.5	18050.3
20°	13547.4	13516.4	13485.4	13745.0	14833.9	17325.6	17410.9	16899.4	16457.6	16360.7
22.5°	12780.1	12768.5	12737.5	12795.6	13082.4	14682.8	15659.3	15186.6	14892.1	14864.9
25°	12078.7	12059.4	11966.4	12040.0	12040.0	12133.0	13384.7	13671.4	13411.8	13380.8
27.5°	11365.7	11330.8	11315.3	11350.2	11172.0	10544.2	10862.0	12260.9	12125.2	12133.0
30°	10594.6	10582.9	10540.3	10613.9	10063.7	9284.8	9083.3	10982.1	11009.2	11001.5
32.5°	9447.5	9497.9	9691.7	9773.0	8866.3	8223.0	7885.9	9501.8	10055.9	10044.3
35°	6862.8	6862.8	7494.5	8668.6	7769.6	7285.2	7103.1	8056.4	9114.3	9153.0
37.5°	5642.2	5661.5	5785.5	6320.3	6704.0	6533.4	6479.2	6781.5	7905.2	7967.2
40°	5076.4	5076.4	5076.4	4855.5	4843.9	5886.3	5855.3	5758.4	6828.0	6963.6
42.5°	4561.0	4572.6	4580.4	4022.4	3712.4	5088.0	5018.3	4871.0	5863.1	6021.9
45°	4030.1	4049.5	4072.7	3363.6	3228.0	3662.0	4247.1	4084.4	4909.8	5115.2
47.5°	2460.7	2491.7	3018.7	2852.1	2867.6	2825.0	3464.4	3437.2	4026.2	4316.9
50°	1662.4	1674.1	1724.4	1809.7	2460.7	2220.4	2452.9	2844.3	3057.5	3499.2
52.5°	1395.0	1414.4	1290.4	1174.2	1615.9	1736.1	1712.8	2111.9	2197.2	2743.6
55°	980.4	1042.4	984.3	972.7	918.4	1348.5	1298.2	1623.7	1677.9	2084.8
57.5°	100.8	116.3	201.5	724.6	600.6	763.4	926.2	1189.7	1243.9	1538.4
60°	7.8	7.8	19.4	100.8	437.9	457.3	639.4	732.4	837.0	1073.4
62.5°	0.0	3.9	7.8	15.5	69.8	244.1	321.6	383.6	503.8	693.6
65°	0.0	0.0	3.9	11.6	15.5	93.0	124.0	201.5	275.1	430.1
67.5°	0.0	0.0	3.9	7.8	11.6	23.3	42.6	73.6	147.3	244.1
70°	0.0	0.0	3.9	7.8	11.6	19.4	31.0	46.5	65.9	131.8
72.5°	0.0	0.0	3.9	3.9	7.8	19.4	23.3	31.0	46.5	65.9
75°	0.0	0.0	3.9	3.9	11.6	23.3	19.4	23.3	31.0	42.6
77.5°	0.0	0.0	3.9	7.8	11.6	23.3	19.4	23.3	23.3	27.1
80°	0.0	0.0	3.9	7.8	15.5	27.1	23.3	23.3	19.4	19.4
82.5°	0.0	0.0	3.9	11.6	15.5	34.9	34.9	31.0	15.5	11.6
85°	0.0	0.0	7.8	15.5	23.3	38.8	38.8	31.0	11.6	7.8
87.5°	0.0	0.0	7.8	11.6	19.4	27.1	38.8	31.0	11.6	3.9
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°
20941.1	0°	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1	20941.1
20875.3	2.5°	20979.9	20956.6	21034.1	21065.1	21107.8	20945.0	20844.3	20848.1	20662.1
20638.9	5°	20762.9	20766.7	20867.5	20859.8	20902.4	20813.2	20774.5	20708.6	20545.9
20340.5	7.5°	20487.7	20452.9	20549.7	20623.4	20514.9	20576.9	20487.7	20518.7	20421.9
20077.0	10°	20274.6	20193.2	20282.4	20332.7	20336.6	20274.6	20189.4	20108.0	20073.1
19666.2	12.5°	19801.8	19697.2	19848.3	19918.1	19906.5	19786.3	19689.5	19708.8	19596.5
18945.4	15°	19150.8	19154.7	19263.2	19329.1	19267.1	19240.0	19247.7	19201.2	19104.3
17949.5	17.5°	18154.9	18213.0	18499.8	18658.7	18693.6	18639.3	18612.2	18557.9	18461.1
16360.7	20°	16496.4	16845.1	17356.6	17848.8	17945.7	17930.2	17833.3	17810.0	17755.8
14787.4	22.5°	15039.3	15299.0	15891.9	16659.1	17054.4	17093.1	16976.9	16942.0	16883.9
13380.8	25°	13531.9	13810.9	14345.7	15178.8	15996.5	16163.1	16143.7	16039.1	15977.1
12133.0	27.5°	12260.9	12539.9	13024.3	13776.0	14651.8	15186.6	15237.0	15070.3	15066.5
11020.8	30°	11113.8	11497.5	11865.6	12477.9	13326.5	14128.7	14213.9	14097.7	14109.3
10001.7	32.5°	10214.8	10532.6	10846.5	11257.2	11962.5	12896.4	13229.6	13121.1	13078.5
9153.0	35°	9296.4	9513.4	9835.0	10210.9	10691.4	11617.6	12195.0	12113.6	12071.0
8006.0	37.5°	8250.1	8622.1	8854.6	9277.0	9652.9	10389.2	11203.0	11191.3	11102.2
7029.5	40°	7176.7	7568.1	7920.7	8347.0	8637.6	9222.8	10125.7	10121.8	10133.4
6018.1	42.5°	6204.1	6564.4	6990.7	7455.7	7734.7	8161.0	9129.8	9184.0	9249.9
5184.9	45°	5324.4	5649.9	6045.2	6610.9	6948.1	7192.2	8052.5	8300.5	8296.6
4440.9	47.5°	4533.9	4840.0	5173.3	5723.5	6153.7	6374.6	7087.6	7440.2	7417.0
3642.6	50°	3805.4	4076.6	4425.4	4824.5	5401.9	5595.7	6126.6	6591.6	6556.7
2902.5	52.5°	3061.3	3437.2	3731.7	4096.0	4704.4	4894.3	5305.0	5758.4	5731.3
2177.8	55°	2387.1	2751.3	3107.8	3421.7	3933.2	4216.1	4510.6	4975.6	4967.9
1705.1	57.5°	1805.8	2204.9	2542.1	2840.5	3247.3	3596.1	3832.5	4254.9	4309.1
1166.4	60°	1336.9	1643.0	2007.3	2340.6	2662.2	3022.6	3181.5	3596.1	3619.4
798.3	62.5°	910.7	1247.8	1604.3	1906.6	2146.8	2518.8	2662.2	3003.2	3045.8
511.5	65°	631.6	848.7	1255.5	1472.5	1767.1	2084.8	2228.2	2499.4	2584.7
294.5	67.5°	418.5	604.5	980.4	1178.0	1468.7	1685.7	1867.8	2088.7	2181.7
186.0	70°	228.6	445.6	701.4	930.0	1181.9	1391.2	1569.4	1747.7	1829.1
85.3	72.5°	155.0	298.4	488.3	736.3	953.3	1158.7	1317.5	1449.3	1453.2
50.4	75°	77.5	201.5	372.0	569.6	744.0	945.5	1088.9	1166.4	1073.4
31.0	77.5°	46.5	147.3	302.3	457.3	604.5	763.4	844.8	887.4	736.3
23.3	80°	27.1	104.6	236.4	364.3	418.5	561.9	639.4	651.0	492.1
15.5	82.5°	19.4	77.5	186.0	267.4	255.8	395.3	480.5	465.0	313.9
11.6	85°	11.6	54.3	116.3	166.6	155.0	259.6	279.0	286.8	182.1
7.8	87.5°	7.8	31.0	62.0	89.1	73.6	112.4	112.4	135.6	89.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
20941.1  
*20421.9*  
20507.1  
20259.1  
19918.1  
19499.6  
19007.4  
18418.4  
17631.8  
16868.4  
15911.2  
15058.7  
14051.2  
13082.4  
12012.9  
11175.8  
10133.4  
9215.0  
8304.4  
7424.7  
6587.7  
5789.4  
4987.3  
4285.9  
3654.2  
3053.6  
2565.3  
2170.1  
1798.1  
1418.3  
1003.7  
709.1  
461.1  
290.6  
166.6  
77.5  
0.0

(END OF REPORT)