

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: P638803

Luminaire Tested: **EPH-VN-08-E-750-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638803  
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-750-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53868.7 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

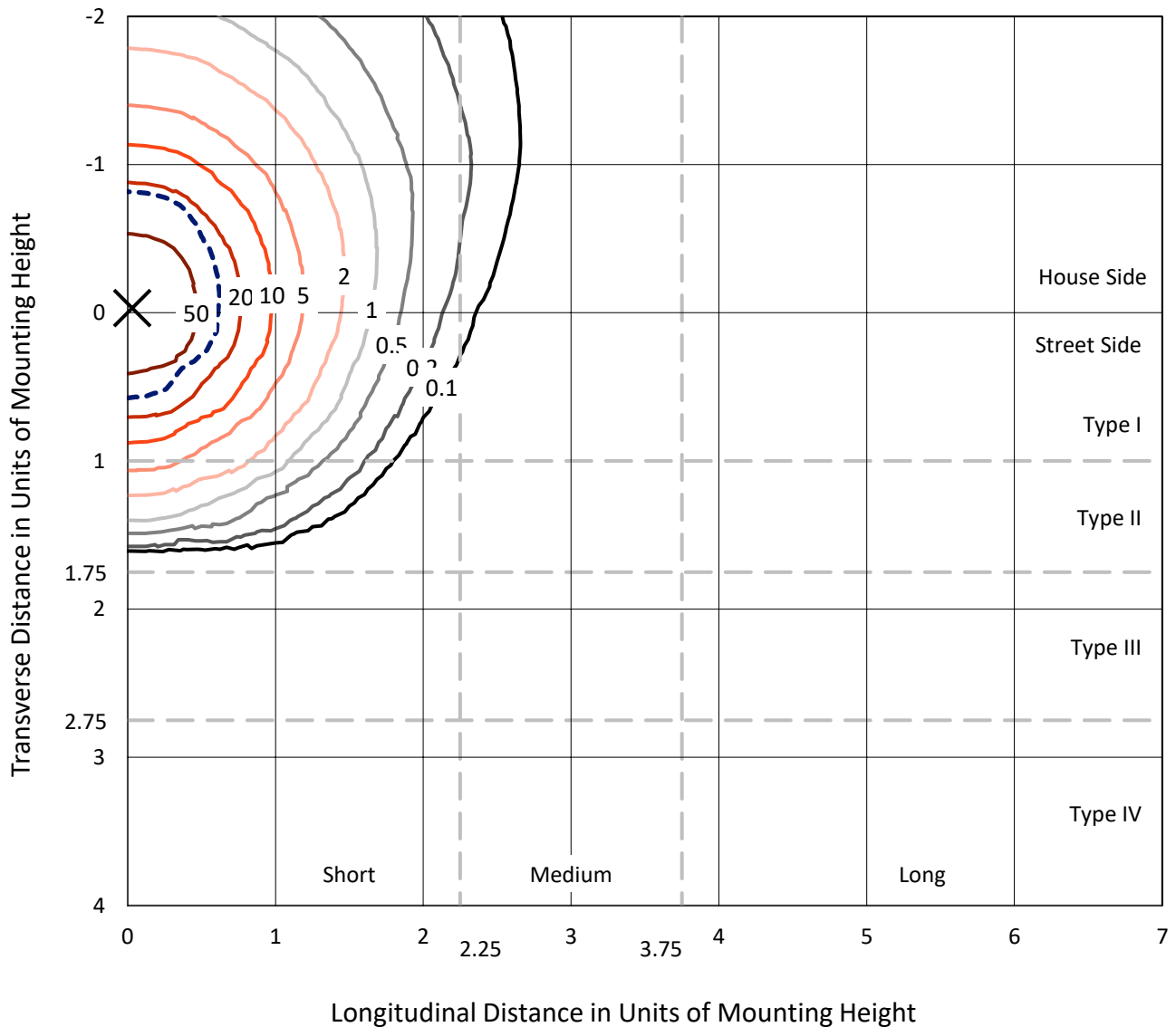
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: EPH-VN-08-E-750-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

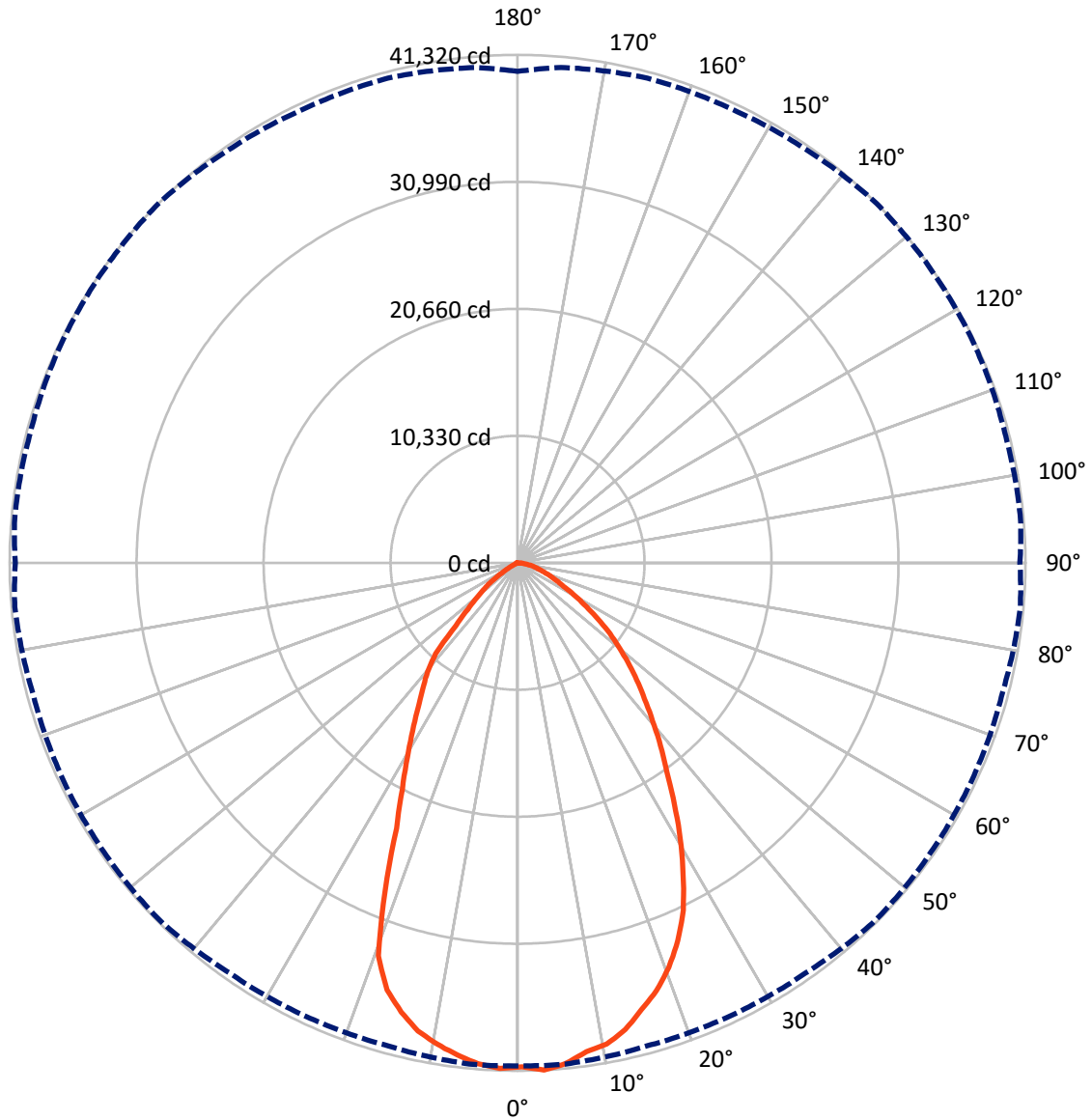
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 102.5 fc  
 Type I - Short - N/A

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### 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	31903.8	0.0	31903.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	21964.9	0.0	21964.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	53868.7	0.0	53868.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3844.6	7.1
10°-20°	10309.5	19.1
20°-30°	12573.0	23.3
30°-40°	11479.0	21.3
40°-50°	8295.6	15.4
50°-60°	4529.5	8.4
60°-70°	1872.8	3.5
70°-80°	758.5	1.4
80°-90°	206.3	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°	53868.7	100.0
0°-180°	53868.7	100.0

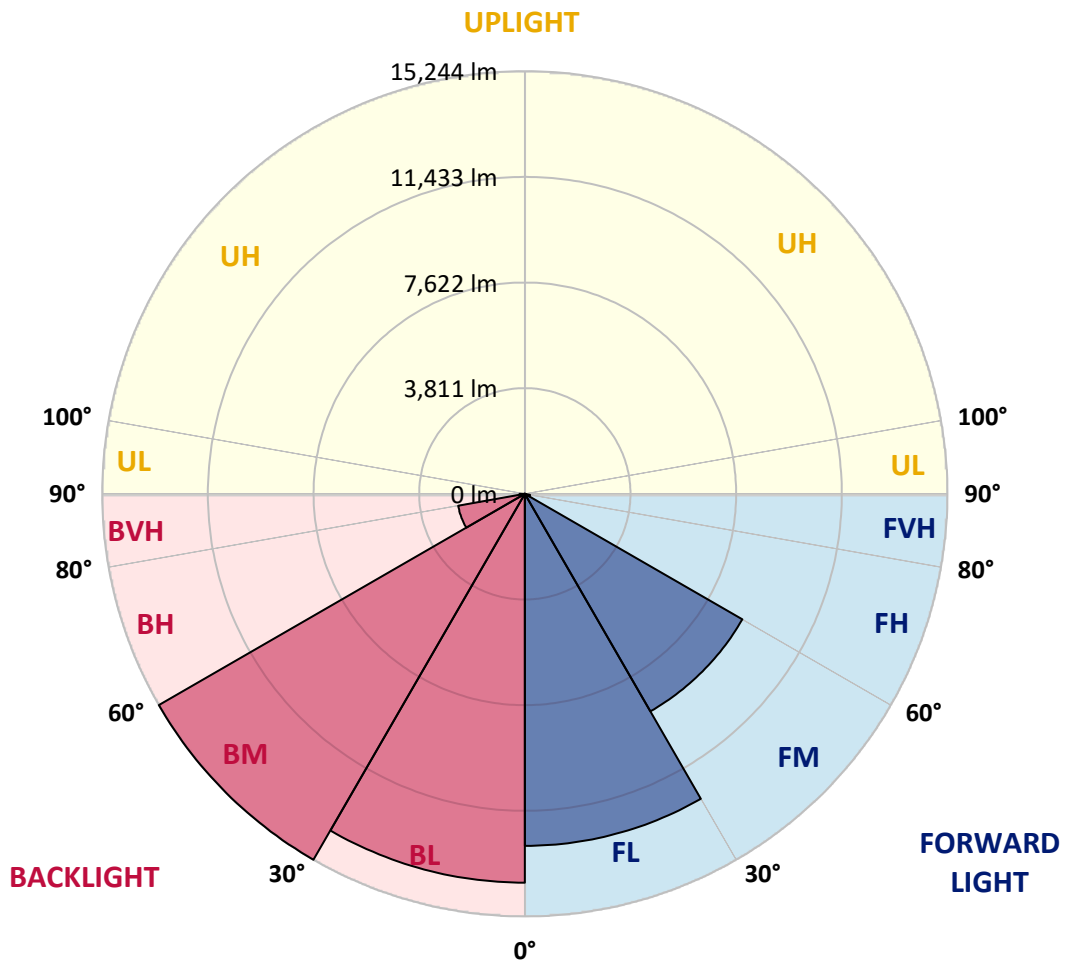


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12698.8	23.6			
FM (30°-60°)	9059.7	16.8			
FH (60°-80°)	189.8	0.4			G0/660
FVH (80°-90°)	16.5	0.0			G1/100
BL (0°-30°)	14028.2	26.0	B5		
BM (30°-60°)	15244.4	28.3	B5		
BH (60°-80°)	2441.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	189.8	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-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9
2.5°	40918.0	40971.1	40682.9	40713.2	40766.3	41153.2	41054.6	40963.5	40834.6	41054.6
5°	40864.9	40895.3	40591.8	40485.6	40531.1	40880.1	40561.5	40561.5	40531.1	40493.2
7.5°	40455.3	40470.5	40235.3	40045.7	40167.0	40326.3	40091.2	40205.0	40038.1	40167.0
10°	39840.8	39742.2	39461.5	39408.4	39545.0	39696.7	39537.4	39643.6	39491.9	39590.5
12.5°	38938.1	38786.4	38558.8	38490.6	38725.7	38930.5	38801.6	38740.9	38543.7	38786.4
15°	35456.2	35342.4	35858.3	36761.0	37572.7	37747.1	37610.6	37671.3	37261.6	37329.9
17.5°	29182.7	28970.3	29524.1	31663.3	34712.8	36321.0	36199.6	35805.2	35198.3	35334.8
20°	26520.1	26459.4	26398.7	26907.0	29038.6	33916.3	34083.2	33081.8	32217.1	32027.4
22.5°	25018.1	24995.3	24934.7	25048.4	25609.8	28742.7	30654.4	29728.9	29152.4	29099.3
25°	23645.1	23607.1	23425.1	23569.2	23569.2	23751.3	26201.5	26762.8	26254.6	26193.9
27.5°	22249.3	22181.0	22150.7	22218.9	21870.0	20641.1	21263.1	24001.6	23736.1	23751.3
30°	20739.7	20716.9	20633.5	20777.6	19700.4	18175.7	17781.2	21498.3	21551.4	21536.2
32.5°	18494.3	18592.9	18972.2	19131.5	17356.4	16097.2	15437.2	18600.5	19685.3	19662.5
35°	13434.5	13434.5	14671.0	16969.5	15209.6	14261.4	13904.8	15771.0	17841.9	17917.8
37.5°	11045.0	11082.9	11325.7	12372.5	13123.5	12789.7	12683.5	13275.2	15475.1	15596.5
40°	9937.5	9937.5	9937.5	9505.1	9482.3	11522.9	11462.2	11272.6	13366.3	13631.8
42.5°	8928.5	8951.3	8966.5	7874.1	7267.2	9960.2	9823.7	9535.4	11477.4	11788.4
45°	7889.3	7927.2	7972.7	6584.5	6319.0	7168.6	8314.1	7995.5	9611.3	10013.3
47.5°	4817.0	4877.7	5909.4	5583.2	5613.5	5530.1	6781.7	6728.6	7881.7	8450.6
50°	3254.3	3277.1	3375.7	3542.6	4817.0	4346.7	4801.8	5568.0	5985.2	6850.0
52.5°	2730.9	2768.8	2526.1	2298.5	3163.3	3398.5	3352.9	4134.3	4301.2	5370.8
55°	1919.2	2040.6	1926.8	1904.0	1797.8	2639.9	2541.3	3178.5	3284.7	4081.2
57.5°	197.2	227.6	394.5	1418.6	1175.8	1494.4	1813.0	2328.9	2435.1	3011.6
60°	15.2	15.2	37.9	197.2	857.2	895.1	1251.7	1433.7	1638.5	2101.3
62.5°	0.0	7.6	15.2	30.3	136.5	477.9	629.6	751.0	986.2	1357.9
65°	0.0	0.0	7.6	22.8	30.3	182.1	242.7	394.5	538.6	842.0
67.5°	0.0	0.0	7.6	15.2	22.8	45.5	83.4	144.1	288.3	477.9
70°	0.0	0.0	7.6	15.2	22.8	37.9	60.7	91.0	129.0	257.9
72.5°	0.0	0.0	7.6	7.6	15.2	37.9	45.5	60.7	91.0	129.0
75°	0.0	0.0	7.6	7.6	22.8	45.5	37.9	45.5	60.7	83.4
77.5°	0.0	0.0	7.6	15.2	22.8	45.5	37.9	45.5	45.5	53.1
80°	0.0	0.0	7.6	15.2	30.3	53.1	45.5	45.5	37.9	37.9
82.5°	0.0	0.0	7.6	22.8	30.3	68.3	68.3	60.7	30.3	22.8
85°	0.0	0.0	15.2	30.3	45.5	75.9	75.9	60.7	22.8	15.2
87.5°	0.0	0.0	15.2	22.8	37.9	53.1	75.9	60.7	22.8	7.6
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°
40993.9	0°	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9	40993.9
40864.9	2.5°	41069.7	41024.2	41175.9	41236.6	41320.1	41001.5	40804.2	40811.8	40447.7
40402.2	5°	40644.9	40652.5	40849.7	40834.6	40918.0	40743.5	40667.7	40538.7	40220.1
39818.1	7.5°	40106.3	40038.1	40227.7	40371.8	40159.4	40280.8	40106.3	40167.0	39977.4
39302.2	10°	39689.1	39529.8	39704.3	39802.9	39810.5	39689.1	39522.2	39362.9	39294.7
38498.1	12.5°	38763.6	38558.8	38854.7	38991.2	38968.5	38733.3	38543.7	38581.6	38361.6
37087.2	15°	37489.2	37496.8	37709.2	37838.2	37716.8	37663.7	37678.9	37587.8	37398.2
35137.6	17.5°	35539.7	35653.4	36214.8	36525.8	36594.1	36487.9	36434.8	36328.6	36138.9
32027.4	20°	32292.9	32975.6	33977.0	34940.4	35130.0	35099.7	34910.0	34864.5	34758.3
28947.6	22.5°	29440.6	29948.9	31109.5	32611.5	33385.3	33461.1	33233.6	33165.3	33051.5
26193.9	25°	26489.8	27035.9	28082.8	29713.7	31314.3	31640.5	31602.6	31397.8	31276.4
23751.3	27.5°	24001.6	24547.8	25496.0	26967.7	28682.1	29728.9	29827.5	29501.3	29493.7
21574.1	30°	21756.2	22507.2	23227.8	24426.4	26087.7	27658.0	27824.9	27597.3	27620.0
19579.1	32.5°	19996.3	20618.3	21232.8	22036.9	23417.5	25245.7	25898.1	25685.7	25602.2
17917.8	35°	18198.4	18623.2	19252.9	19988.7	20929.3	22742.3	23872.6	23713.3	23629.9
15672.3	37.5°	16150.3	16878.5	17333.6	18160.5	18896.3	20337.6	21930.7	21907.9	21733.4
13760.7	40°	14049.0	14815.1	15505.5	16339.9	16908.8	18054.3	19821.8	19814.2	19837.0
11780.8	42.5°	12144.9	12850.4	13684.9	14595.2	15141.3	15975.8	17872.2	17978.4	18107.4
10149.9	45°	10422.9	11060.2	11833.9	12941.4	13601.4	14079.3	15763.4	16248.9	16241.3
8693.4	47.5°	8875.4	9474.7	10127.1	11204.3	12046.3	12478.7	13874.5	14564.8	14519.3
7130.7	50°	7449.3	7980.3	8663.0	9444.4	10574.7	10954.0	11993.2	12903.5	12835.2
5681.8	52.5°	5992.8	6728.6	7305.2	8018.2	9209.2	9580.9	10385.0	11272.6	11219.5
4263.2	55°	4672.9	5385.9	6083.8	6698.3	7699.6	8253.4	8829.9	9740.2	9725.0
3337.8	57.5°	3535.0	4316.3	4976.3	5560.4	6356.9	7039.7	7502.4	8329.3	8435.5
2283.3	60°	2617.1	3216.4	3929.5	4581.8	5211.5	5917.0	6228.0	7039.7	7085.2
1562.7	62.5°	1782.7	2442.6	3140.5	3732.2	4202.6	4930.8	5211.5	5879.0	5962.5
1001.3	65°	1236.5	1661.3	2457.8	2882.6	3459.1	4081.2	4361.9	4892.9	5059.8
576.5	67.5°	819.3	1183.4	1919.2	2306.1	2875.0	3299.8	3656.4	4088.8	4270.8
364.1	70°	447.6	872.4	1373.0	1820.6	2313.7	2723.3	3072.3	3421.2	3580.5
166.9	72.5°	303.4	584.1	955.8	1441.3	1866.1	2268.2	2579.2	2837.1	2844.7
98.6	75°	151.7	394.5	728.2	1115.1	1456.5	1850.9	2131.6	2283.3	2101.3
60.7	77.5°	91.0	288.3	591.7	895.1	1183.4	1494.4	1653.7	1737.2	1441.3
45.5	80°	53.1	204.8	462.7	713.1	819.3	1099.9	1251.7	1274.4	963.4
30.3	82.5°	37.9	151.7	364.1	523.4	500.7	773.8	940.6	910.3	614.5
22.8	85°	22.8	106.2	227.6	326.2	303.4	508.3	546.2	561.4	356.5
15.2	87.5°	15.2	60.7	121.4	174.5	144.1	220.0	220.0	265.5	174.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
40993.9  
39977.4  
40144.3  
39658.8  
38991.2  
38171.9  
37208.5  
36055.5  
34515.6  
33021.2  
31147.5  
29478.6  
27506.3  
25609.8  
23516.1  
21877.6  
19837.0  
18039.1  
16256.5  
14534.5  
12895.9  
11333.2  
9763.0  
8389.9  
7153.4  
5977.6  
5021.8  
4248.1  
3519.8  
2776.4  
1964.7  
1388.2  
902.7  
568.9  
326.2  
151.7  
0.0

(END OF REPORT)