

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: P638780

Luminaire Tested: **EPH-VN-03-E-730-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638780  
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-730-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18892.7 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

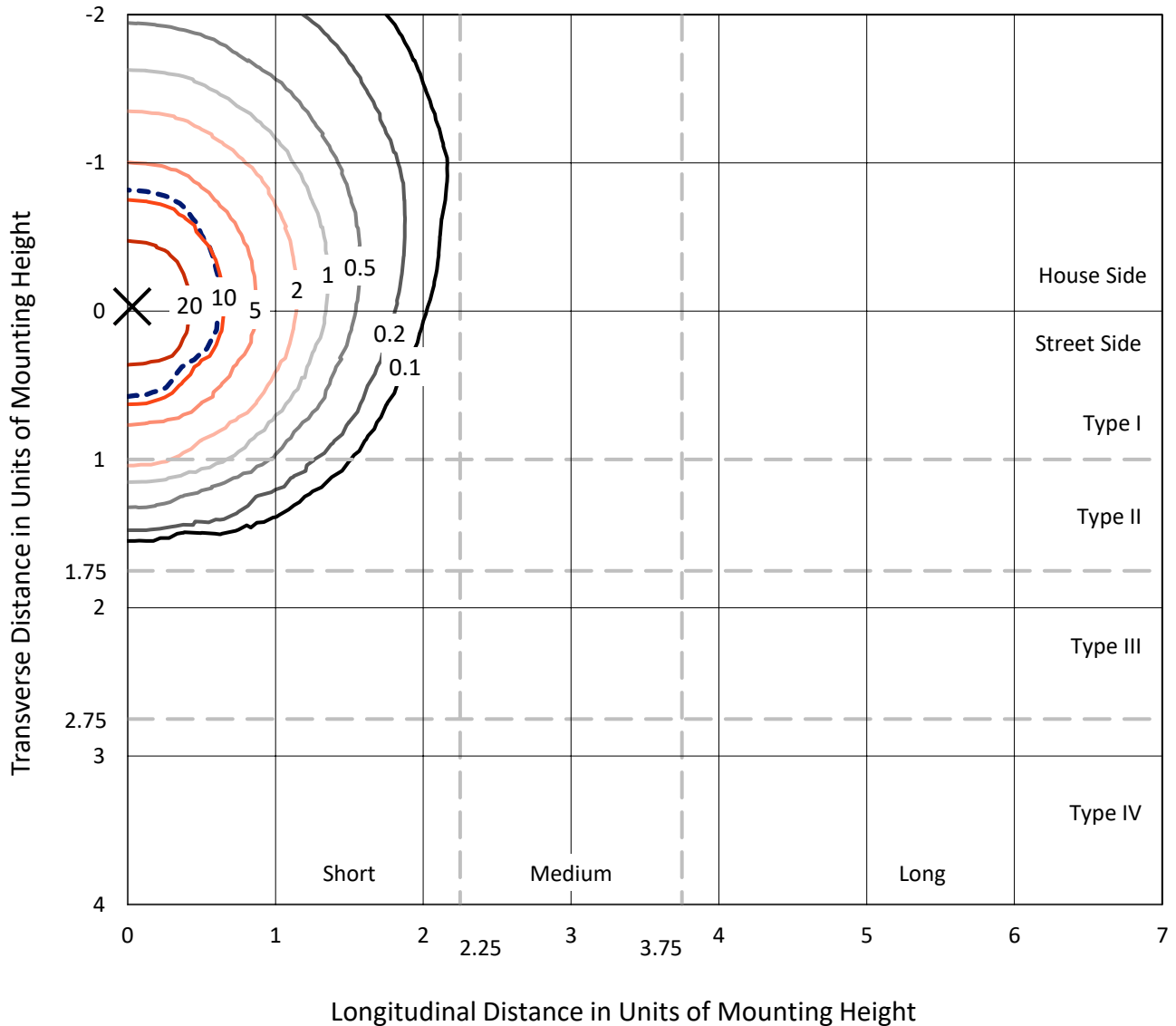
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

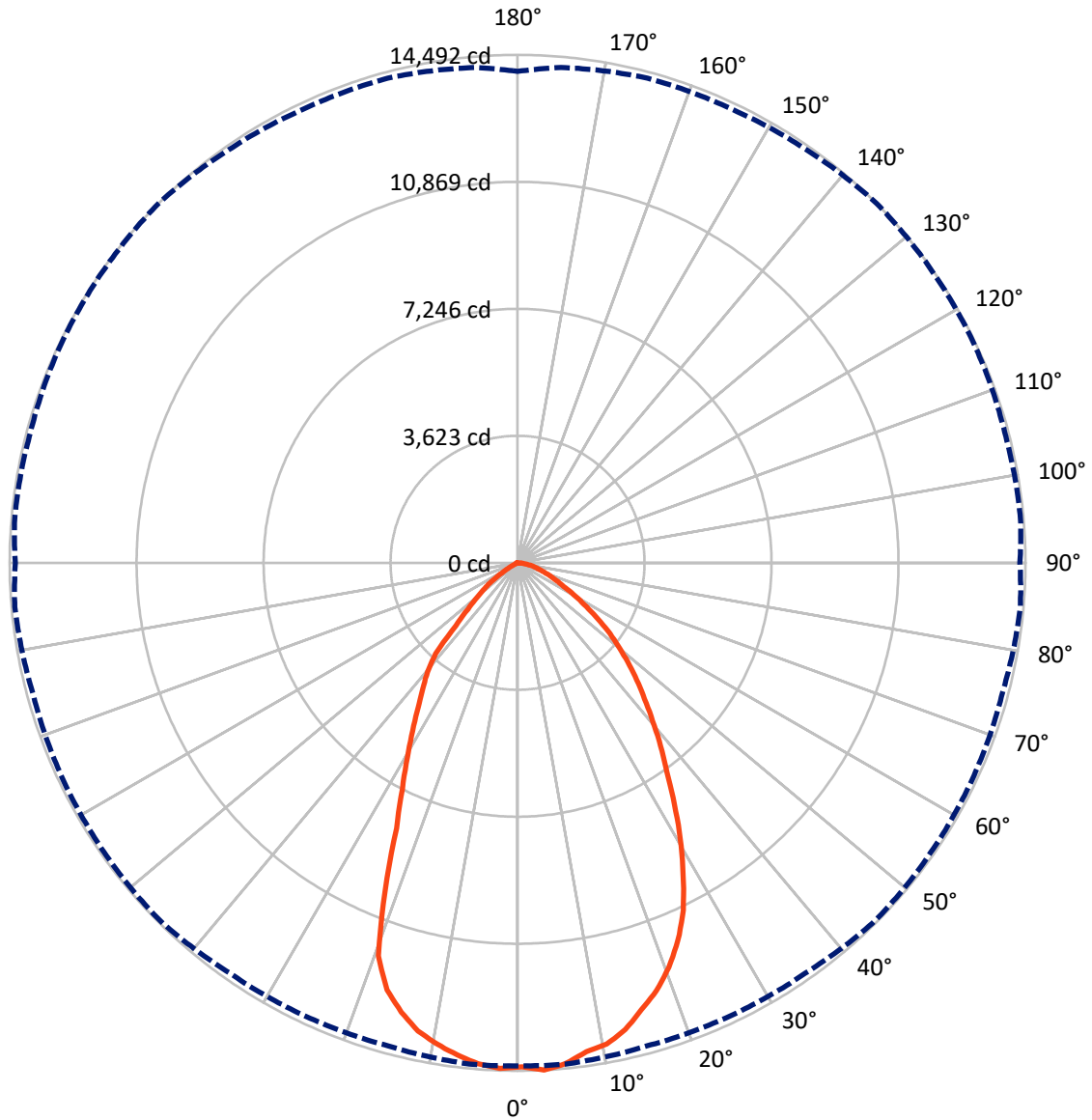
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P638780  
CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638780

CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

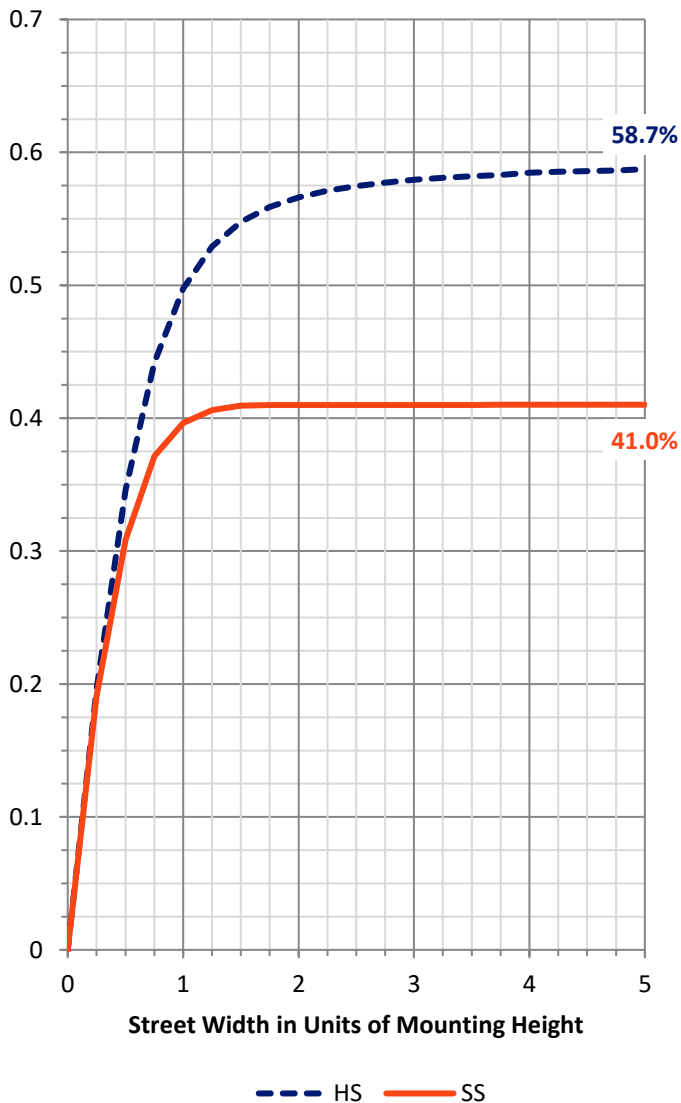
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11189.2	0.0	11189.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7703.5	0.0	7703.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	18892.7	0.0	18892.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1348.4	7.1
10°-20°	3615.7	19.1
20°-30°	4409.6	23.3
30°-40°	4025.9	21.3
40°-50°	2909.4	15.4
50°-60°	1588.6	8.4
60°-70°	656.8	3.5
70°-80°	266.0	1.4
80°-90°	72.4	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°	18892.7	100.0
0°-180°	18892.7	100.0



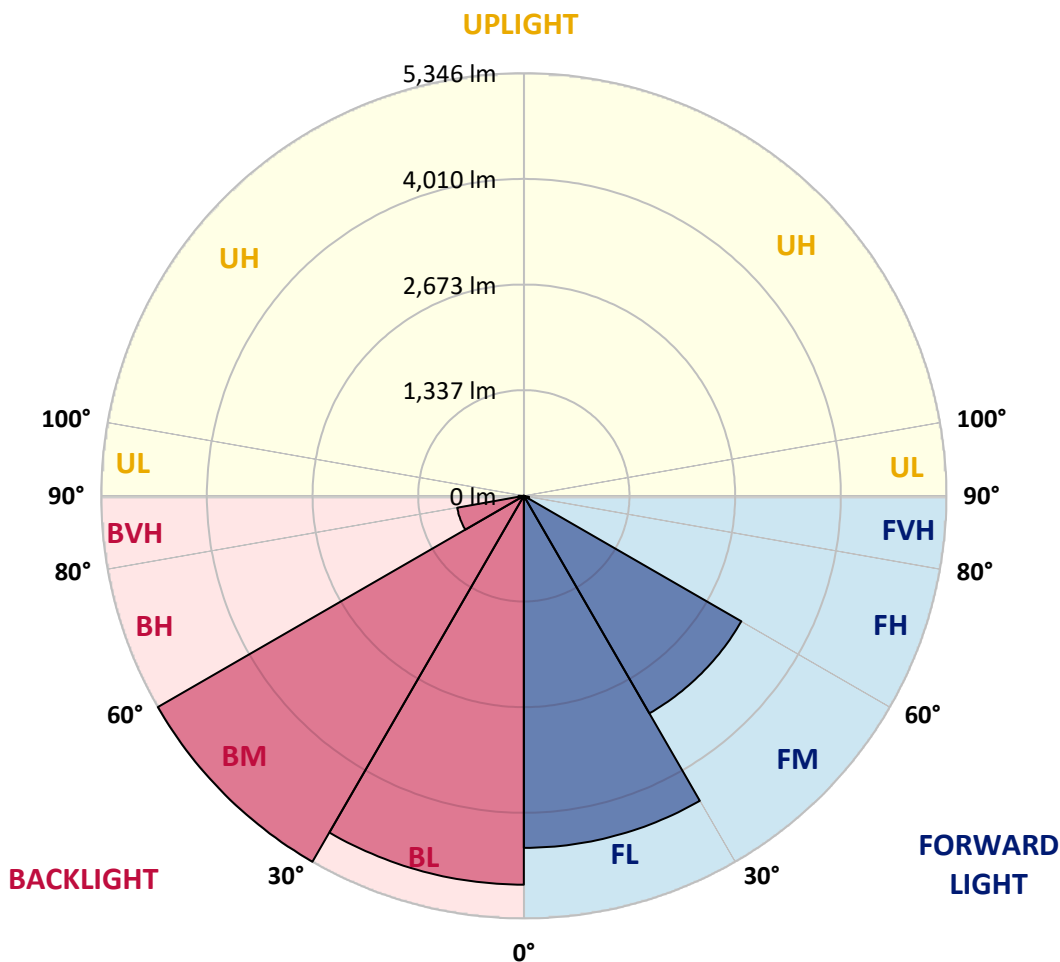
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 CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4453.7	23.6			
FM (30°-60°)	3177.4	16.8			
FH (60°-80°)	66.6	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	4919.9	26.0	B4/5000		
BM (30°-60°)	5346.5	28.3	B4/8500		
BH (60°-80°)	856.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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 CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2
2.5°	14350.6	14369.3	14268.2	14278.8	14297.4	14433.1	14398.5	14366.6	14321.4	14398.5
5°	14332.0	14342.7	14236.2	14199.0	14215.0	14337.3	14225.6	14225.6	14215.0	14201.7
7.5°	14188.4	14193.7	14111.2	14044.7	14087.3	14143.1	14060.7	14100.6	14042.0	14087.3
10°	13972.9	13938.3	13839.8	13821.2	13869.1	13922.3	13866.4	13903.7	13850.5	13885.1
12.5°	13656.3	13603.0	13523.2	13499.3	13581.8	13653.6	13608.4	13587.1	13517.9	13603.0
15°	12435.1	12395.2	12576.1	12892.7	13177.4	13238.6	13190.7	13212.0	13068.3	13092.2
17.5°	10234.9	10160.4	10354.6	11104.9	12174.4	12738.4	12695.8	12557.5	12344.6	12392.5
20°	9301.0	9279.8	9258.5	9436.7	10184.3	11895.0	11953.5	11602.4	11299.1	11232.6
22.5°	8774.3	8766.3	8745.0	8784.9	8981.8	10080.6	10751.0	10426.4	10224.2	10205.6
25°	8292.7	8279.4	8215.6	8266.1	8266.1	8330.0	9189.3	9386.2	9207.9	9186.6
27.5°	7803.2	7779.3	7768.6	7792.6	7670.2	7239.2	7457.3	8417.8	8324.7	8330.0
30°	7273.8	7265.8	7236.5	7287.1	6909.3	6374.5	6236.2	7539.8	7558.4	7553.1
32.5°	6486.3	6520.8	6653.9	6709.7	6087.2	5645.5	5414.1	6523.5	6904.0	6896.0
35°	4711.7	4711.7	5145.4	5951.5	5334.3	5001.7	4876.7	5531.1	6257.5	6284.1
37.5°	3873.7	3887.0	3972.1	4339.2	4602.6	4485.6	4448.3	4655.8	5427.4	5470.0
40°	3485.2	3485.2	3485.2	3333.6	3325.6	4041.3	4020.0	3953.5	4687.8	4780.9
42.5°	3131.4	3139.4	3144.7	2761.6	2548.7	3493.2	3445.3	3344.2	4025.3	4134.4
45°	2766.9	2780.2	2796.2	2309.3	2216.2	2514.2	2915.9	2804.1	3370.8	3511.8
47.5°	1689.4	1710.7	2072.5	1958.1	1968.8	1939.5	2378.5	2359.8	2764.2	2963.8
50°	1141.3	1149.3	1183.9	1242.4	1689.4	1524.5	1684.1	1952.8	2099.1	2402.4
52.5°	957.8	971.1	885.9	806.1	1109.4	1191.9	1175.9	1450.0	1508.5	1883.6
55°	673.1	715.7	675.8	667.8	630.5	925.8	891.3	1114.7	1152.0	1431.3
57.5°	69.2	79.8	138.3	497.5	412.4	524.1	635.9	816.8	854.0	1056.2
60°	5.3	5.3	13.3	69.2	300.6	313.9	439.0	502.8	574.7	737.0
62.5°	0.0	2.7	5.3	10.6	47.9	167.6	220.8	263.4	345.9	476.2
65°	0.0	0.0	2.7	8.0	10.6	63.9	85.1	138.3	188.9	295.3
67.5°	0.0	0.0	2.7	5.3	8.0	16.0	29.3	50.5	101.1	167.6
70°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	31.9	45.2	90.5
72.5°	0.0	0.0	2.7	2.7	5.3	13.3	16.0	21.3	31.9	45.2
75°	0.0	0.0	2.7	2.7	8.0	16.0	13.3	16.0	21.3	29.3
77.5°	0.0	0.0	2.7	5.3	8.0	16.0	13.3	16.0	16.0	18.6
80°	0.0	0.0	2.7	5.3	10.6	18.6	16.0	16.0	13.3	13.3
82.5°	0.0	0.0	2.7	8.0	10.6	23.9	23.9	21.3	10.6	8.0
85°	0.0	0.0	5.3	10.6	16.0	26.6	26.6	21.3	8.0	5.3
87.5°	0.0	0.0	5.3	8.0	13.3	18.6	26.6	21.3	8.0	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638780

CATALOG NUMBER: EPH-VN-03-E-730-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14377.2	0°	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2	14377.2
14332.0	2.5°	14403.9	14387.9	14441.1	14462.4	14491.6	14379.9	14310.7	14313.4	14185.7
14169.7	5°	14254.9	14257.5	14326.7	14321.4	14350.6	14289.5	14262.8	14217.6	14105.9
13964.9	7.5°	14066.0	14042.0	14108.5	14159.1	14084.6	14127.2	14066.0	14087.3	14020.7
13784.0	10°	13919.6	13863.8	13925.0	13959.6	13962.2	13919.6	13861.1	13805.2	13781.3
13501.9	12.5°	13595.1	13523.2	13627.0	13674.9	13666.9	13584.4	13517.9	13531.2	13454.1
13007.1	15°	13148.1	13150.8	13225.3	13270.5	13227.9	13209.3	13214.6	13182.7	13116.2
12323.4	17.5°	12464.4	12504.3	12701.1	12810.2	12834.2	12796.9	12778.3	12741.1	12674.5
11232.6	20°	11325.7	11565.1	11916.3	12254.2	12320.7	12310.1	12243.5	12227.6	12190.3
10152.4	22.5°	10325.3	10503.6	10910.6	11437.4	11708.8	11735.4	11655.6	11631.6	11591.7
9186.6	25°	9290.4	9482.0	9849.1	10421.1	10982.5	11096.9	11083.6	11011.7	10969.2
8330.0	27.5°	8417.8	8609.3	8941.9	9458.0	10059.3	10426.4	10461.0	10346.6	10344.0
7566.4	30°	7630.3	7893.7	8146.4	8566.8	9149.4	9700.1	9758.7	9678.8	9686.8
6866.7	32.5°	7013.0	7231.2	7446.7	7728.7	8212.9	8854.1	9082.9	9008.4	8979.1
6284.1	35°	6382.5	6531.5	6752.3	7010.4	7340.3	7976.1	8372.5	8316.7	8287.4
5496.6	37.5°	5664.2	5919.6	6079.2	6369.2	6627.3	7132.8	7691.5	7683.5	7622.3
4826.1	40°	4927.2	5195.9	5438.0	5730.7	5930.2	6331.9	6951.8	6949.2	6957.2
4131.7	42.5°	4259.4	4506.9	4799.5	5118.8	5310.3	5603.0	6268.1	6305.3	6350.6
3559.7	45°	3655.5	3879.0	4150.4	4538.8	4770.2	4937.9	5528.5	5698.8	5696.1
3048.9	47.5°	3112.8	3322.9	3551.7	3929.5	4224.8	4376.5	4866.0	5108.1	5092.2
2500.9	50°	2612.6	2798.8	3038.3	3312.3	3708.7	3841.7	4206.2	4525.5	4501.5
1992.7	52.5°	2101.8	2359.8	2562.0	2812.1	3229.8	3360.2	3642.2	3953.5	3934.9
1495.2	55°	1638.9	1888.9	2133.7	2349.2	2700.4	2894.6	3096.8	3416.1	3410.7
1170.6	57.5°	1239.8	1513.8	1745.3	1950.1	2229.5	2468.9	2631.2	2921.2	2958.5
800.8	60°	917.9	1128.0	1378.1	1606.9	1827.8	2075.2	2184.3	2468.9	2484.9
548.1	62.5°	625.2	856.7	1101.4	1309.0	1473.9	1729.3	1827.8	2061.9	2091.1
351.2	65°	433.7	582.6	862.0	1011.0	1213.2	1431.3	1529.8	1716.0	1774.5
202.2	67.5°	287.3	415.0	673.1	808.8	1008.3	1157.3	1282.4	1434.0	1497.9
127.7	70°	157.0	306.0	481.5	638.5	811.4	955.1	1077.5	1199.9	1255.7
58.5	72.5°	106.4	204.9	335.2	505.5	654.5	795.5	904.6	995.0	997.7
34.6	75°	53.2	138.3	255.4	391.1	510.8	649.2	747.6	800.8	737.0
21.3	77.5°	31.9	101.1	207.5	313.9	415.0	524.1	580.0	609.3	505.5
16.0	80°	18.6	71.8	162.3	250.1	287.3	385.8	439.0	447.0	337.9
10.6	82.5°	13.3	53.2	127.7	183.6	175.6	271.4	329.9	319.3	215.5
8.0	85°	8.0	37.2	79.8	114.4	106.4	178.3	191.6	196.9	125.0
5.3	87.5°	5.3	21.3	42.6	61.2	50.5	77.2	77.2	93.1	61.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
14377.2  
*14020.7*  
14079.3  
13909.0  
13674.9  
13387.5  
13049.7  
12645.3  
12105.2  
11581.1  
10923.9  
10338.6  
9646.9  
8981.8  
8247.5  
7672.8  
6957.2  
6326.6  
5701.4  
5097.5  
4522.8  
3974.8  
3424.0  
2942.5  
2508.8  
2096.5  
1761.2  
1489.9  
1234.5  
973.7  
689.1  
486.9  
316.6  
199.5  
114.4  
53.2  
0.0

(END OF REPORT)