

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: P638798

Luminaire Tested: **EPH-VN-03-E-750-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638798  
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-750-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21222.6 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

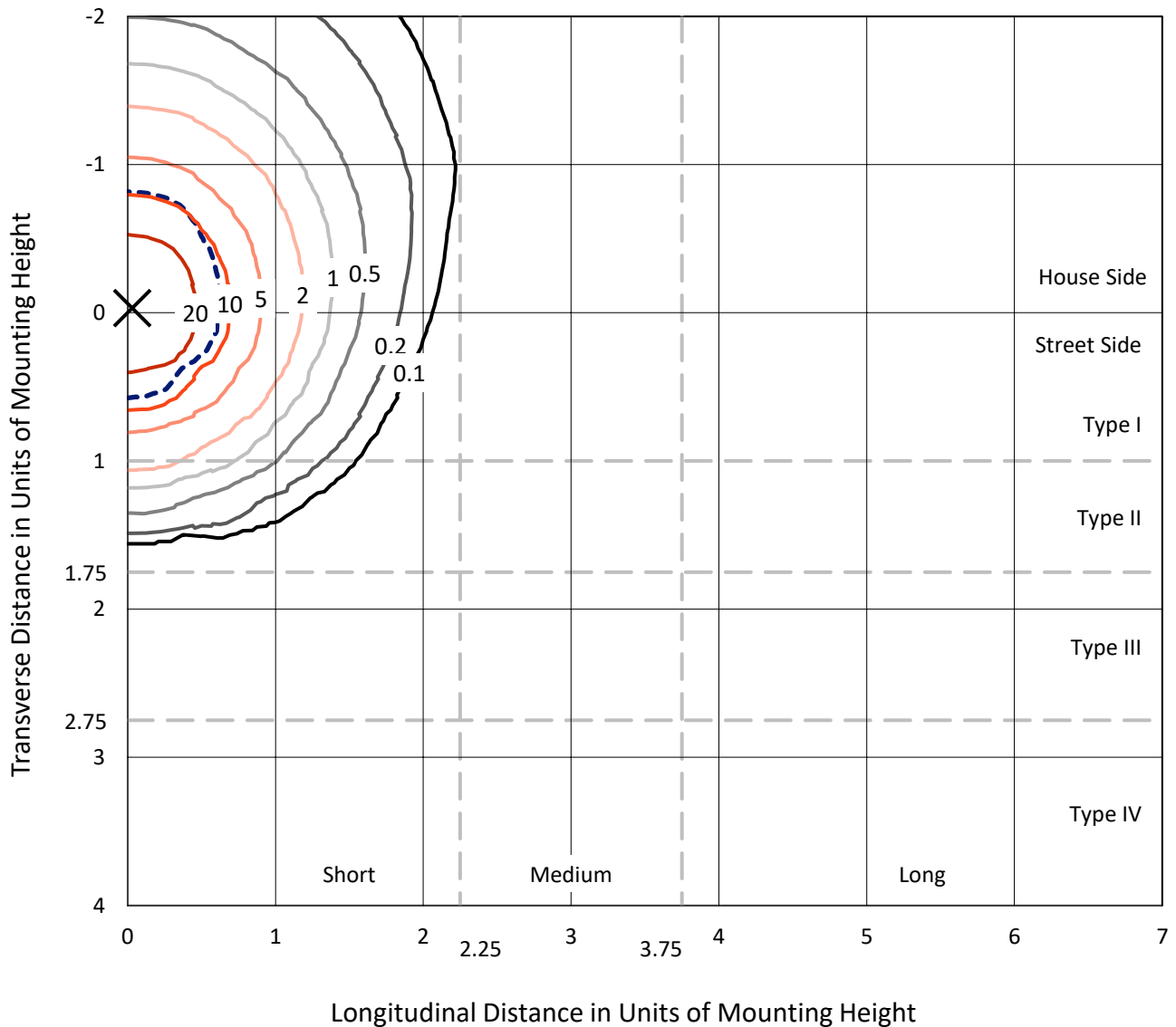
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

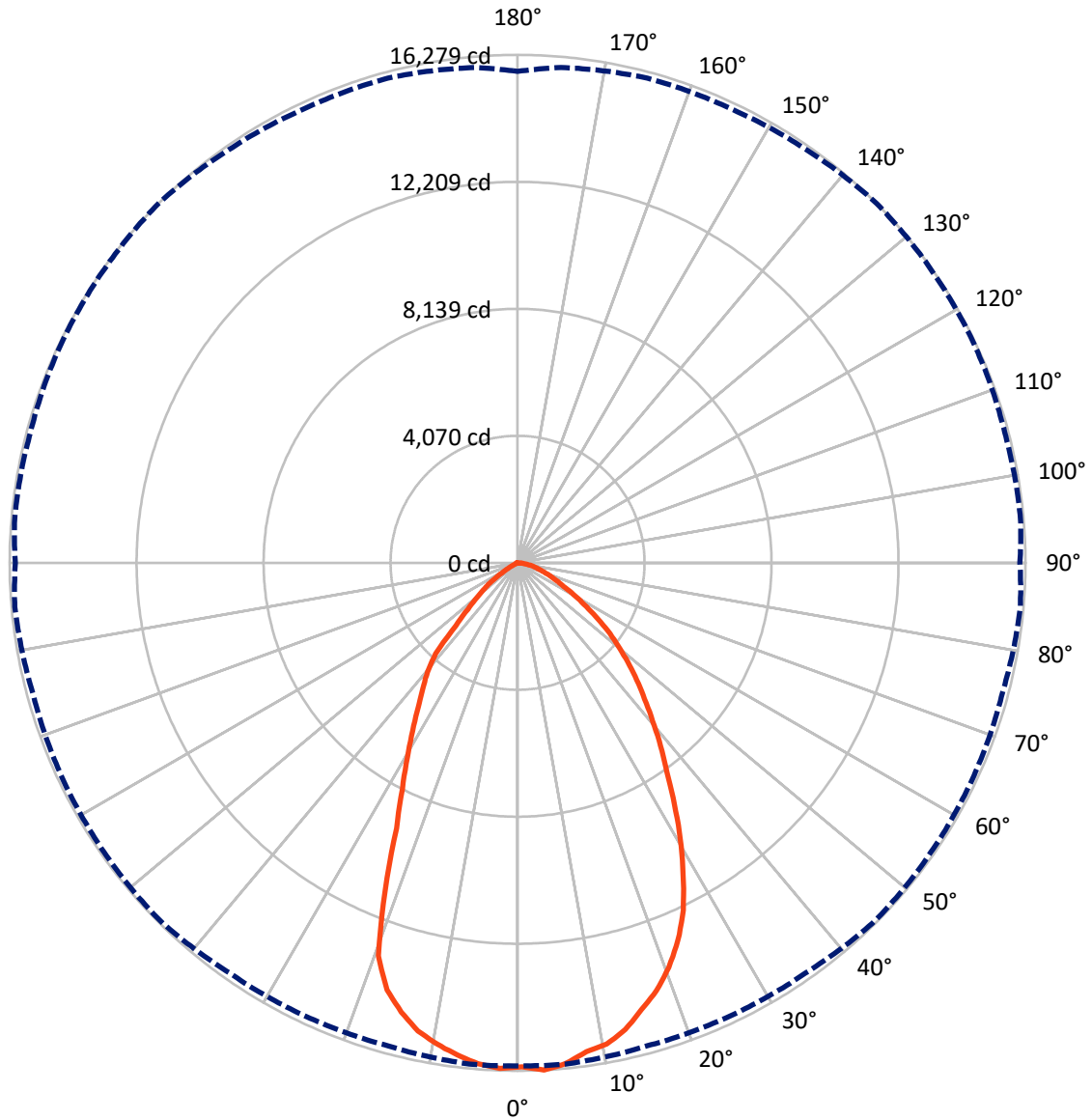
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.4 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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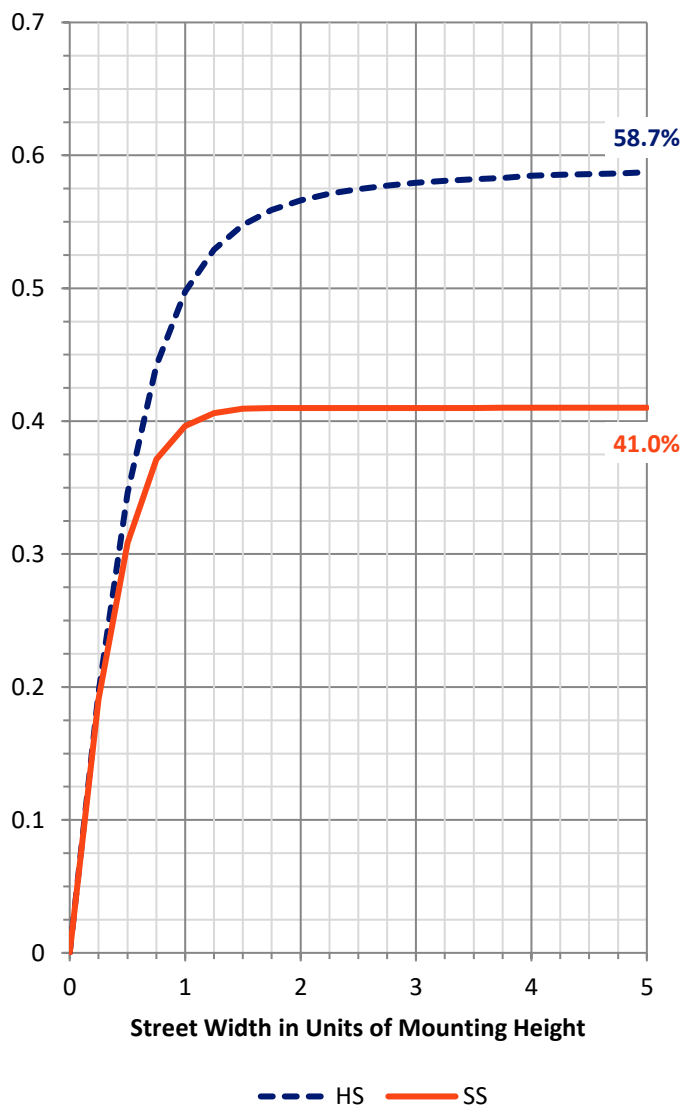
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12569.1	0.0	12569.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8653.5	0.0	8653.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21222.6	0.0	21222.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1514.6	7.1
10°-20°	4061.6	19.1
20°-30°	4953.4	23.3
30°-40°	4522.4	21.3
40°-50°	3268.2	15.4
50°-60°	1784.5	8.4
60°-70°	737.8	3.5
70°-80°	298.8	1.4
80°-90°	81.3	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°	21222.6	100.0
0°-180°	21222.6	100.0

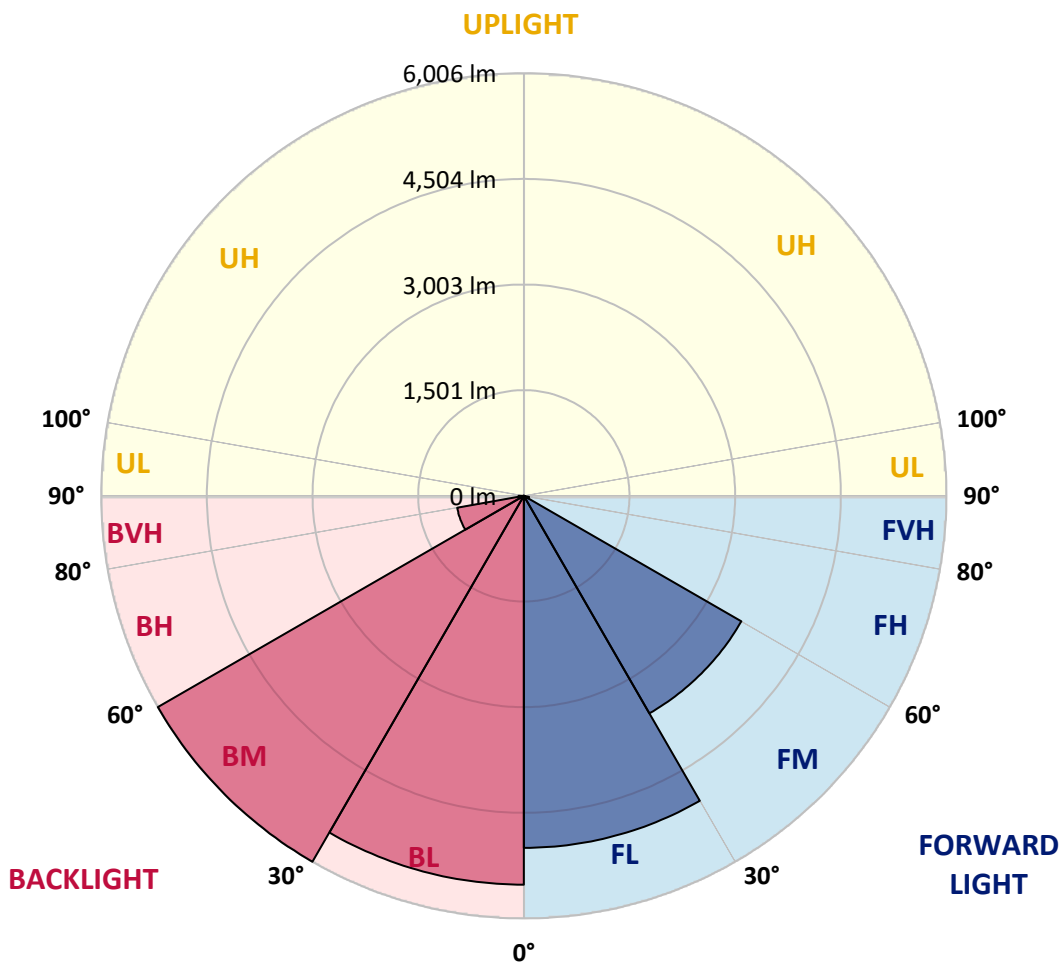


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5002.9	23.6			
FM (30°-60°)	3569.2	16.8			
FH (60°-80°)	74.8	0.4			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	5526.7	26.0	B5		
BM (30°-60°)	6005.8	28.3	B4/8500		
BH (60°-80°)	961.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	74.8	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-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3
2.5°	16120.4	16141.4	16027.8	16039.7	16060.7	16213.1	16174.2	16138.4	16087.6	16174.2
5°	16099.5	16111.5	15991.9	15950.1	15968.0	16105.5	15980.0	15980.0	15968.0	15953.1
7.5°	15938.1	15944.1	15851.5	15776.8	15824.6	15887.3	15794.7	15839.5	15773.8	15824.6
10°	15696.1	15657.2	15546.6	15525.7	15579.5	15639.3	15576.5	15618.4	15558.6	15597.4
12.5°	15340.4	15280.6	15191.0	15164.1	15256.7	15337.4	15286.6	15262.7	15185.0	15280.6
15°	13968.7	13923.8	14127.1	14482.7	14802.5	14871.2	14817.4	14841.3	14679.9	14706.8
17.5°	11497.1	11413.4	11631.6	12474.4	13675.8	14309.4	14261.5	14106.1	13867.0	13920.8
20°	10448.1	10424.2	10400.3	10600.5	11440.3	13362.0	13427.7	13033.2	12692.5	12617.8
22.5°	9856.4	9847.4	9823.5	9868.3	10089.5	11323.8	12076.9	11712.3	11485.1	11464.2
25°	9315.4	9300.5	9228.8	9285.5	9285.5	9357.3	10322.6	10543.7	10343.5	10319.6
27.5°	8765.5	8738.6	8726.7	8753.6	8616.1	8131.9	8377.0	9455.9	9351.3	9357.3
30°	8170.8	8161.8	8129.0	8185.7	7761.4	7160.7	7005.2	8469.7	8490.6	8484.6
32.5°	7286.2	7325.0	7474.5	7537.2	6837.9	6341.8	6081.8	7328.0	7755.4	7746.4
35°	5292.8	5292.8	5779.9	6685.5	5992.1	5618.5	5478.1	6213.3	7029.2	7059.0
37.5°	4351.4	4366.3	4462.0	4874.4	5170.3	5038.8	4996.9	5230.0	6096.7	6144.5
40°	3915.0	3915.0	3915.0	3744.7	3735.7	4539.7	4515.8	4441.0	5265.9	5370.5
42.5°	3517.6	3526.5	3532.5	3102.2	2863.1	3924.0	3870.2	3756.7	4521.7	4644.3
45°	3108.1	3123.1	3141.0	2594.1	2489.5	2824.2	3275.5	3150.0	3786.5	3944.9
47.5°	1897.8	1921.7	2328.1	2199.6	2211.6	2178.7	2671.8	2650.9	3105.1	3329.3
50°	1282.1	1291.1	1329.9	1395.7	1897.8	1712.5	1891.8	2193.6	2358.0	2698.7
52.5°	1075.9	1090.8	995.2	905.5	1246.2	1338.9	1321.0	1628.8	1694.5	2115.9
55°	756.1	803.9	759.1	750.1	708.3	1040.0	1001.2	1252.2	1294.1	1607.9
57.5°	77.7	89.7	155.4	558.9	463.2	588.8	714.3	917.5	959.3	1186.5
60°	6.0	6.0	14.9	77.7	337.7	352.7	493.1	564.8	645.5	827.8
62.5°	0.0	3.0	6.0	12.0	53.8	188.3	248.1	295.9	388.5	535.0
65°	0.0	0.0	3.0	9.0	12.0	71.7	95.6	155.4	212.2	331.7
67.5°	0.0	0.0	3.0	6.0	9.0	17.9	32.9	56.8	113.6	188.3
70°	0.0	0.0	3.0	6.0	9.0	14.9	23.9	35.9	50.8	101.6
72.5°	0.0	0.0	3.0	3.0	6.0	14.9	17.9	23.9	35.9	50.8
75°	0.0	0.0	3.0	3.0	9.0	17.9	14.9	17.9	23.9	32.9
77.5°	0.0	0.0	3.0	6.0	9.0	17.9	14.9	17.9	17.9	20.9
80°	0.0	0.0	3.0	6.0	12.0	20.9	17.9	17.9	14.9	14.9
82.5°	0.0	0.0	3.0	9.0	12.0	26.9	26.9	23.9	12.0	9.0
85°	0.0	0.0	6.0	12.0	17.9	29.9	29.9	23.9	9.0	6.0
87.5°	0.0	0.0	6.0	9.0	14.9	20.9	29.9	23.9	9.0	3.0
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°
16150.3	0°	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3	16150.3
16099.5	2.5°	16180.2	16162.3	16222.1	16246.0	16278.8	16153.3	16075.6	16078.6	15935.1
15917.2	5°	16012.9	16015.8	16093.5	16087.6	16120.4	16051.7	16021.8	15971.0	15845.5
15687.1	7.5°	15800.7	15773.8	15848.5	15905.3	15821.6	15869.4	15800.7	15824.6	15749.9
15483.9	10°	15636.3	15573.5	15642.3	15681.1	15684.1	15636.3	15570.5	15507.8	15480.9
15167.1	12.5°	15271.7	15191.0	15307.5	15361.3	15352.4	15259.7	15185.0	15200.0	15113.3
14611.2	15°	14769.6	14772.6	14856.3	14907.1	14859.3	14838.3	14844.3	14808.5	14733.7
13843.1	17.5°	14001.5	14046.4	14267.5	14390.0	14416.9	14375.1	14354.2	14312.3	14237.6
12617.8	20°	12722.4	12991.4	13385.9	13765.4	13840.1	13828.2	13753.5	13735.5	13693.7
11404.4	22.5°	11598.7	11798.9	12256.2	12847.9	13152.8	13182.7	13093.0	13066.1	13021.3
10319.6	25°	10436.1	10651.3	11063.8	11706.3	12336.9	12465.4	12450.5	12369.8	12321.9
9357.3	27.5°	9455.9	9671.1	10044.6	10624.4	11299.8	11712.3	11751.1	11622.6	11619.6
8499.5	30°	8571.3	8867.1	9151.1	9623.3	10277.8	10896.4	10962.1	10872.5	10881.4
7713.5	32.5°	7877.9	8123.0	8365.1	8681.8	9225.8	9946.0	10203.0	10119.4	10086.5
7059.0	35°	7169.6	7337.0	7585.0	7874.9	8245.5	8959.8	9405.1	9342.3	9309.4
6174.4	37.5°	6362.7	6649.6	6828.9	7154.7	7444.6	8012.4	8640.0	8631.0	8562.3
5421.3	40°	5534.9	5836.7	6108.7	6437.4	6661.6	7112.8	7809.2	7806.2	7815.2
4641.3	42.5°	4784.7	5062.7	5391.4	5750.0	5965.2	6294.0	7041.1	7083.0	7133.8
3998.7	45°	4106.3	4357.4	4662.2	5098.5	5358.5	5546.8	6210.3	6401.6	6398.6
3424.9	47.5°	3496.6	3732.7	3989.8	4414.1	4745.9	4916.2	5466.1	5738.1	5720.2
2809.3	50°	2934.8	3144.0	3413.0	3720.8	4166.1	4315.5	4725.0	5083.6	5056.7
2238.5	52.5°	2361.0	2650.9	2878.0	3158.9	3628.1	3774.6	4091.4	4441.0	4420.1
1679.6	55°	1841.0	2121.9	2396.8	2638.9	3033.4	3251.6	3478.7	3837.3	3831.4
1315.0	57.5°	1392.7	1700.5	1960.5	2190.6	2504.4	2773.4	2955.7	3281.5	3323.3
899.6	60°	1031.1	1267.2	1548.1	1805.1	2053.2	2331.1	2453.6	2773.4	2791.3
615.6	62.5°	702.3	962.3	1237.3	1470.4	1655.7	1942.6	2053.2	2316.2	2349.0
394.5	65°	487.1	654.5	968.3	1135.7	1362.8	1607.9	1718.4	1927.6	1993.4
227.1	67.5°	322.8	466.2	756.1	908.5	1132.7	1300.0	1440.5	1610.8	1682.6
143.5	70°	176.3	343.7	540.9	717.3	911.5	1072.9	1210.4	1347.9	1410.6
65.7	72.5°	119.5	230.1	376.6	567.8	735.2	893.6	1016.1	1117.7	1120.7
38.9	75°	59.8	155.4	286.9	439.3	573.8	729.2	839.8	899.6	827.8
23.9	77.5°	35.9	113.6	233.1	352.7	466.2	588.8	651.5	684.4	567.8
17.9	80°	20.9	80.7	182.3	280.9	322.8	433.3	493.1	502.1	379.6
12.0	82.5°	14.9	59.8	143.5	206.2	197.2	304.8	370.6	358.6	242.1
9.0	85°	9.0	41.8	89.7	128.5	119.5	200.2	215.2	221.2	140.5
6.0	87.5°	6.0	23.9	47.8	68.7	56.8	86.7	86.7	104.6	68.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16150.3  
*15749.9*  
15815.6  
15624.3  
15361.3  
15038.6  
14659.0  
14204.8  
13598.1  
13009.3  
12271.1  
11613.7  
10836.6  
10089.5  
9264.6  
8619.1  
7815.2  
7106.9  
6404.5  
5726.1  
5080.6  
4464.9  
3846.3  
3305.4  
2818.2  
2355.0  
1978.4  
1673.6  
1386.7  
1093.8  
774.0  
546.9  
355.6  
224.1  
128.5  
59.8  
0.0

(END OF REPORT)