

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: P638848

Luminaire Tested: **EPH-VN-06-E-740-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638848  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-740-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38998.8 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

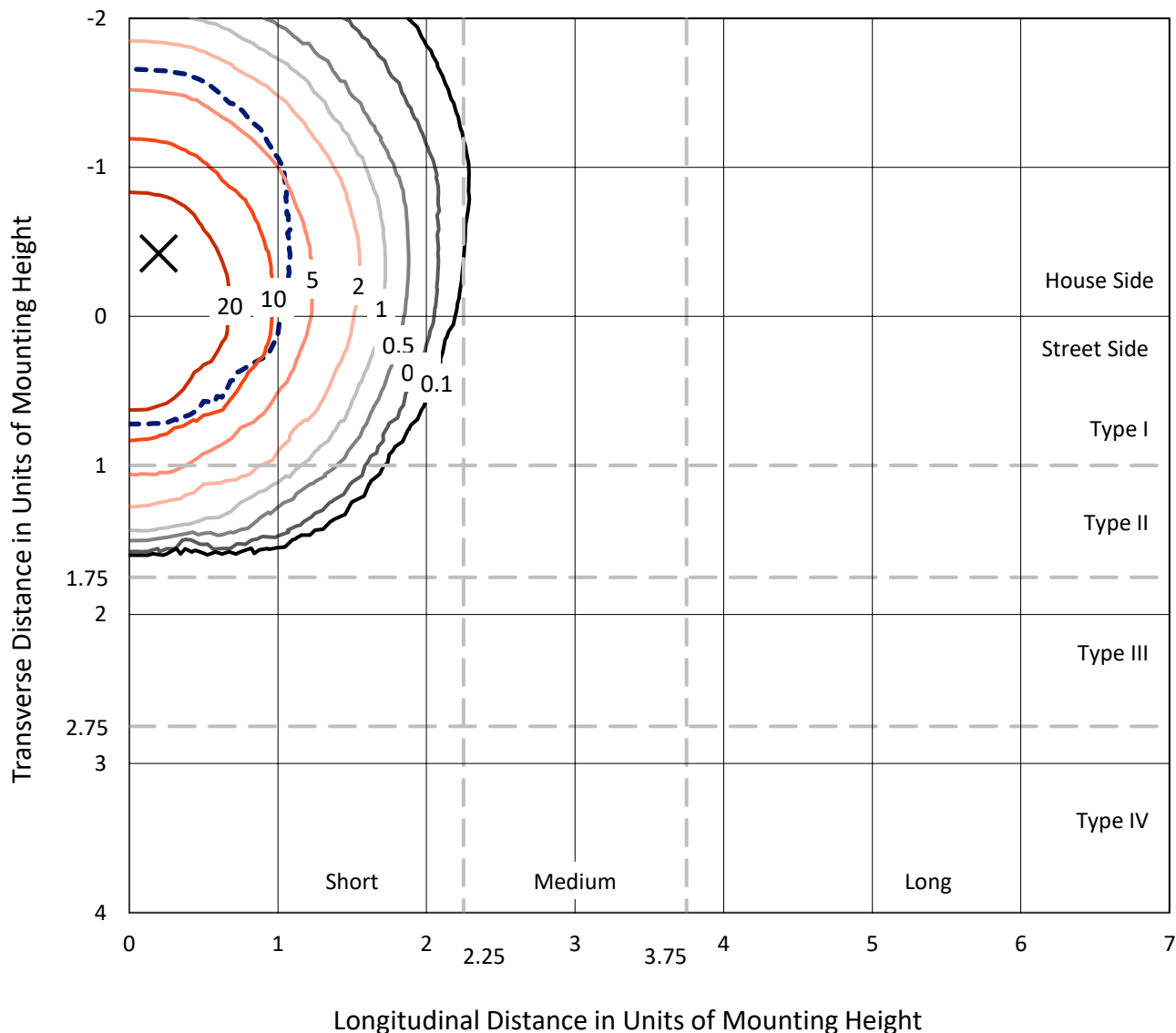
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

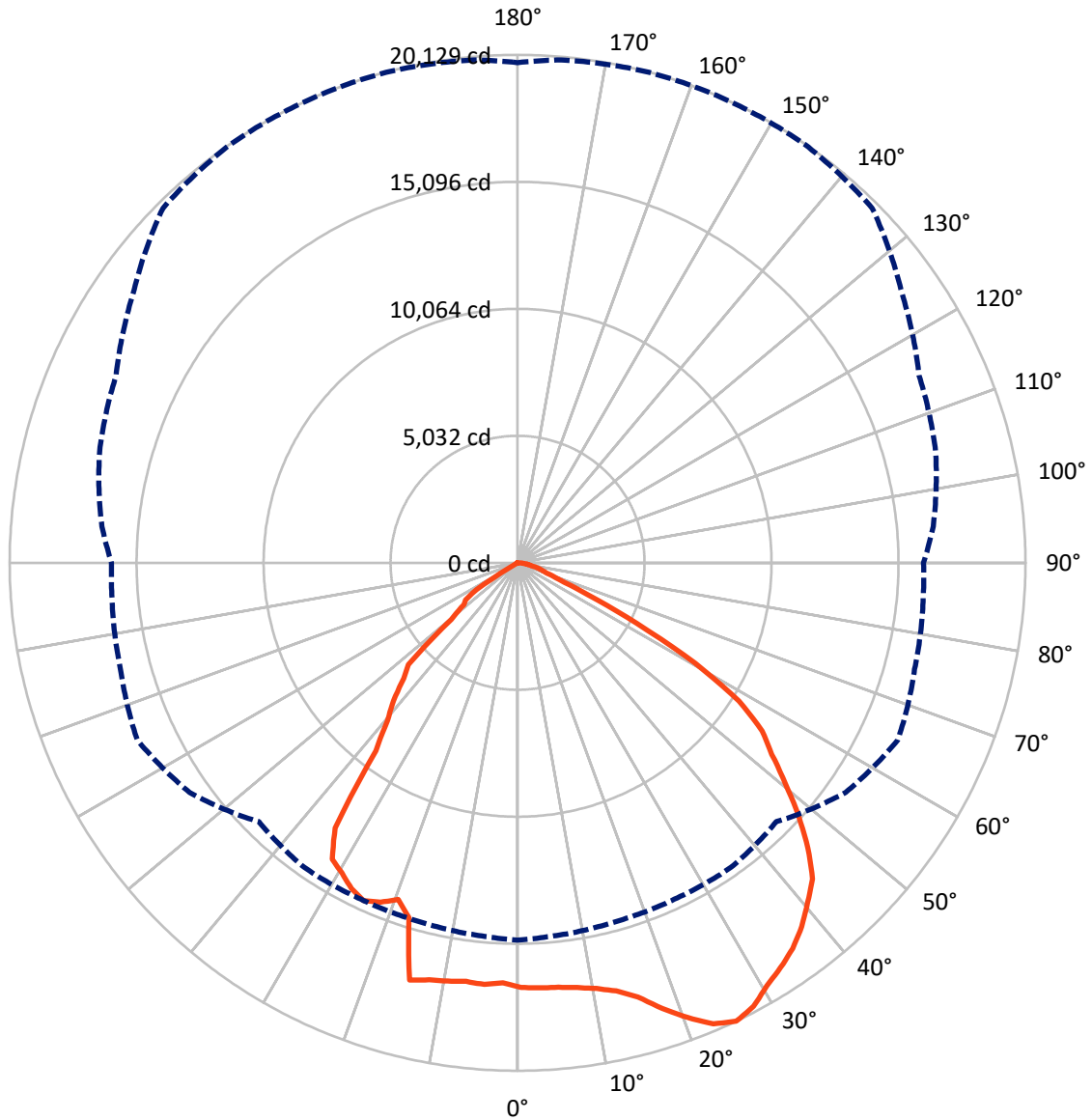
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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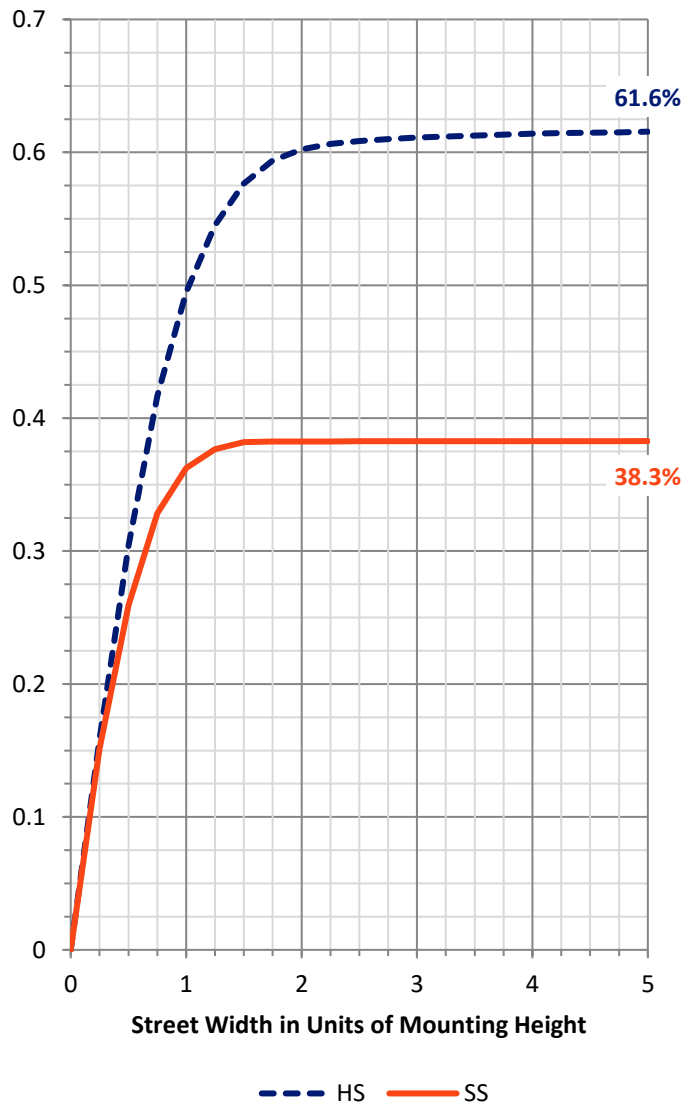
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24144.3	0.0	24144.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	14854.5	0.0	14854.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	38998.8	0.0	38998.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1614.4	4.1
10°-20°	4929.4	12.6
20°-30°	7793.0	20.0
30°-40°	8802.9	22.6
40°-50°	8244.1	21.1
50°-60°	5683.7	14.6
60°-70°	1527.0	3.9
70°-80°	318.2	0.8
80°-90°	86.1	0.2
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°	38998.8	100.0
0°-180°	38998.8	100.0

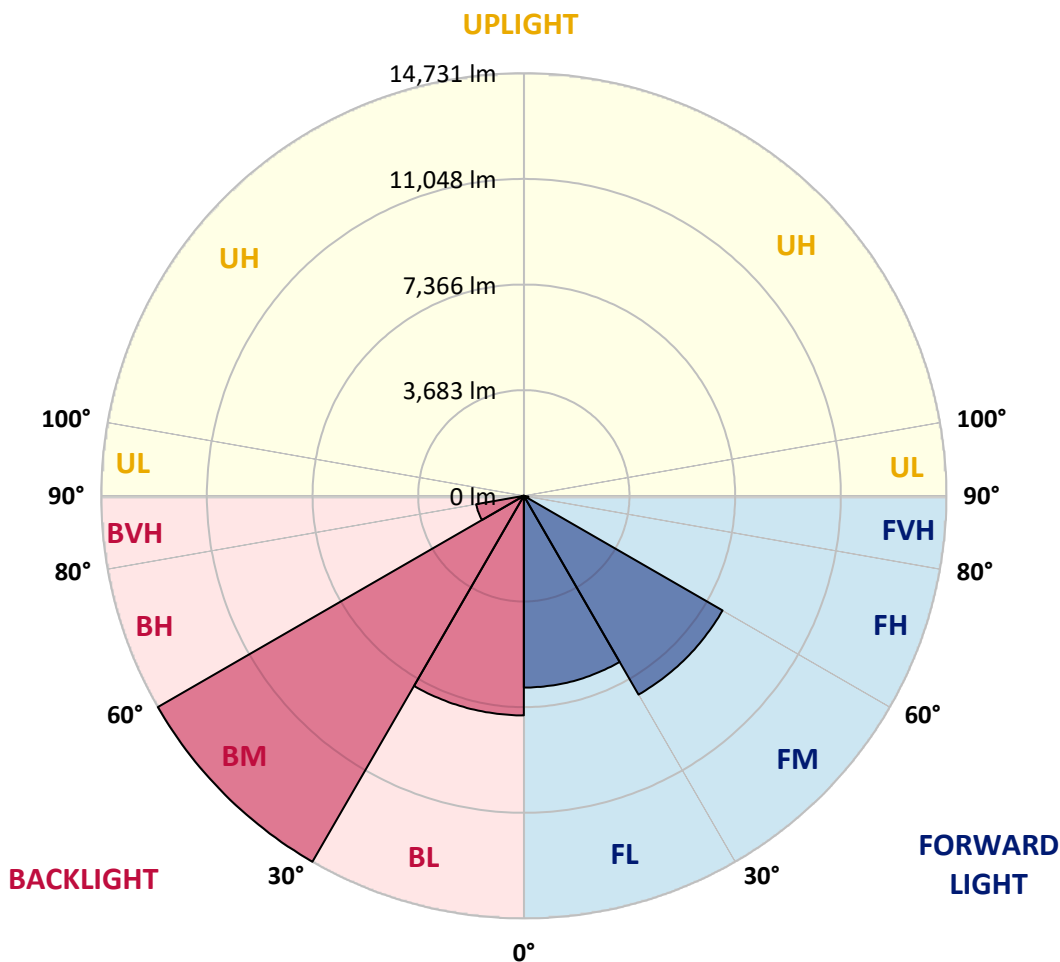


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6683.2	17.1			
FM (30°-60°)	7999.5	20.5			
FH (60°-80°)	160.3	0.4			G0/660
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	7653.6	19.6	B5		
BM (30°-60°)	14731.2	37.8	B5		
BH (60°-80°)	1684.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	74.5	0.2			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°	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3
2.5°	16901.8	16792.9	16689.7	16655.3	16798.6	16953.4	16855.9	16861.7	16827.3	16890.3
5°	17027.9	16878.9	16810.1	16758.5	16781.4	16941.9	16804.4	16855.9	16798.6	16873.1
7.5°	16982.0	16878.9	16810.1	16712.7	16787.2	16976.3	16844.5	16850.2	16821.6	16890.3
10°	16953.4	16878.9	16792.9	16804.4	16890.3	17050.8	16947.6	17005.0	16964.8	17005.0
12.5°	17022.2	16941.9	16896.1	16896.1	16970.6	17154.0	17102.4	17154.0	17136.8	17171.2
15°	16374.5	16449.0	16884.6	17079.5	17228.5	17411.9	17389.0	17440.5	17452.0	17503.6
17.5°	13812.6	13738.1	13703.7	14706.7	17371.8	17939.2	17922.0	17916.2	17858.9	17818.8
20°	14150.7	14122.1	14082.0	14156.5	14454.5	18214.3	18328.9	17623.9	17417.6	17400.4
22.5°	14689.5	14643.6	14494.6	14500.4	14592.1	15835.8	17761.5	17119.6	17050.8	17010.7
25°	14953.1	14861.4	14741.1	14706.7	14735.3	14506.1	15864.4	16626.7	16288.5	16133.8
27.5°	14488.9	14494.6	14397.2	14488.9	14380.0	13348.3	12769.5	15663.8	15652.4	15583.6
30°	14139.3	14122.1	14007.5	14122.1	13371.3	12219.3	11972.8	14609.2	14488.9	14397.2
32.5°	13067.5	13079.0	13411.4	13858.4	12626.2	11714.9	10969.8	13050.3	14190.9	14139.3
35°	9347.9	9370.8	10551.4	12758.0	11497.1	10711.9	10654.6	11279.3	13720.9	13743.8
37.5°	8998.2	8998.2	8969.6	9330.7	10608.8	10305.0	10419.6	10356.6	12568.9	12626.2
40°	8746.1	8694.5	8654.4	8087.0	7376.3	10018.4	10098.7	9812.1	11881.1	11892.6
42.5°	8442.3	8385.0	8396.4	7347.6	6602.5	9307.7	9084.2	8700.2	10734.8	10746.3
45°	7886.4	7983.8	8052.6	6430.6	6373.3	6648.4	8379.3	8138.5	9961.1	10173.2
47.5°	4012.0	4097.9	6287.3	5914.8	6046.6	5909.0	7078.2	7084.0	8287.6	8992.5
50°	3639.4	3616.5	3622.2	3450.3	5582.3	4780.0	5118.1	6493.6	6636.9	7645.6
52.5°	3393.0	3387.2	3037.6	2699.5	3507.6	4206.8	3713.9	4699.7	4934.7	6476.4
55°	2510.3	2693.7	2395.7	2539.0	2195.1	3370.0	3352.8	4241.2	4321.4	5192.6
57.5°	22.9	28.7	68.8	1931.5	1518.8	1685.0	2315.5	2894.3	3037.6	4046.3
60°	5.7	11.5	28.7	57.3	985.8	1037.4	1547.5	1673.6	1885.6	2412.9
62.5°	0.0	0.0	11.5	28.7	51.6	424.1	492.9	538.7	831.0	1232.2
65°	0.0	0.0	5.7	17.2	28.7	68.8	120.4	252.2	361.1	447.0
67.5°	0.0	0.0	5.7	11.5	22.9	34.4	68.8	97.4	154.7	263.6
70°	0.0	0.0	5.7	11.5	17.2	28.7	45.9	68.8	91.7	131.8
72.5°	0.0	0.0	5.7	11.5	11.5	34.4	34.4	51.6	68.8	86.0
75°	0.0	0.0	5.7	5.7	11.5	22.9	34.4	40.1	45.9	68.8
77.5°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	45.9	40.1	40.1
80°	0.0	0.0	5.7	17.2	17.2	28.7	34.4	45.9	28.7	28.7
82.5°	0.0	0.0	5.7	22.9	17.2	57.3	57.3	63.0	22.9	22.9
85°	0.0	0.0	17.2	11.5	34.4	57.3	51.6	34.4	28.7	17.2
87.5°	0.0	0.0	5.7	5.7	11.5	17.2	40.1	34.4	11.5	11.5
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°
16827.3	0°	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3	16827.3
16724.1	2.5°	16953.4	16878.9	17033.6	17016.4	16941.9	16907.5	16867.4	16833.0	16580.8
16735.6	5°	16959.1	16844.5	17033.6	16999.2	16987.8	16930.5	16896.1	16947.6	16718.4
16781.4	7.5°	16959.1	16844.5	17050.8	17062.3	17045.1	16999.2	16993.5	17027.9	16838.7
16861.7	10°	17073.7	17027.9	17199.8	17217.0	17194.1	17182.6	17154.0	17131.0	16930.5
17136.8	12.5°	17314.5	17222.8	17417.6	17469.2	17452.0	17480.7	17411.9	17446.3	17239.9
17417.6	15°	17606.8	17612.5	17761.5	17876.1	17864.7	17956.4	17853.2	17944.9	17795.9
17738.6	17.5°	18053.8	18116.8	18328.9	18500.8	18563.9	18632.7	18563.9	18592.5	18380.5
17383.2	20°	17583.8	17818.8	18839.0	19154.2	19286.0	19349.1	19234.5	19268.8	19056.8
16947.6	22.5°	17159.7	17463.5	18369.0	19354.8	19761.7	19887.8	19847.7	19842.0	19761.7
16087.9	25°	16535.0	17148.2	17555.2	18598.3	19876.4	20105.6	20128.6	20122.8	20002.5
15560.7	27.5°	15767.0	15904.5	16959.1	17595.3	19074.0	19945.1	19910.8	19744.6	19584.1
14466.0	30°	14786.9	15411.6	15887.3	16901.8	18036.6	19452.3	19452.3	19326.2	19160.0
14076.2	32.5°	14288.3	15096.4	15537.7	15904.5	16873.1	18902.0	19131.3	18999.5	18867.7
13772.5	35°	14024.6	14145.0	15176.7	15509.1	16328.7	17841.7	18770.2	18638.4	18541.0
12964.3	37.5°	13445.8	13726.6	14208.1	15096.4	15348.6	16976.3	18288.8	18220.0	18105.4
11915.5	40°	12156.2	12907.0	13646.4	14488.9	14752.5	15864.4	17704.2	17732.8	17578.1
10797.9	42.5°	11394.0	11904.0	13061.8	13629.2	14339.9	15148.0	17136.8	17182.6	17073.7
10230.5	45°	10499.9	11067.3	11881.1	12912.8	13881.4	14162.2	16133.8	16615.2	16523.5
9101.4	47.5°	9680.3	10138.8	11136.0	12179.1	13250.9	13210.8	14981.8	15887.3	15761.3
8236.0	50°	8516.8	9319.2	9789.2	10746.3	12345.4	12454.3	13755.3	15033.4	14930.2
6998.0	52.5°	7181.4	8190.1	9089.9	9966.8	11428.3	11686.3	12614.7	14162.2	14093.4
5347.4	55°	6275.8	7009.5	8023.9	8728.9	10316.5	11004.2	11760.8	13331.2	13296.8
4396.0	57.5°	4464.7	5880.4	6717.2	7703.0	8539.7	9783.4	10345.1	11640.4	11319.4
2435.8	60°	3026.2	3691.0	4711.2	5771.5	6333.2	7576.9	8098.4	9135.8	9049.8
1455.8	62.5°	1599.1	2212.3	2940.2	3473.2	3880.1	5089.5	5307.2	6424.9	6396.2
584.6	65°	705.0	934.2	1593.3	1868.4	2286.8	2848.5	3037.6	3438.8	3341.4
286.6	67.5°	366.8	555.9	899.8	1106.2	1392.7	1604.8	1759.5	1885.6	1965.9
189.1	70°	223.5	406.9	555.9	768.0	957.1	1129.1	1249.4	1421.4	1524.5
97.4	72.5°	166.2	257.9	384.0	590.3	693.5	894.1	1014.5	1140.5	1232.2
80.2	75°	91.7	171.9	309.5	464.2	555.9	727.9	836.8	922.7	951.4
45.9	77.5°	57.3	131.8	257.9	361.1	435.6	590.3	561.7	641.9	710.7
34.4	80°	40.1	97.4	200.6	298.0	303.8	378.3	447.0	515.8	561.7
22.9	82.5°	28.7	80.2	149.0	229.3	200.6	292.3	349.6	401.2	292.3
17.2	85°	22.9	57.3	74.5	137.6	114.6	206.3	177.7	171.9	114.6
11.5	87.5°	17.2	28.7	51.6	63.0	45.9	45.9	57.3	68.8	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16827.3  
16408.9  
16523.5  
16621.0  
16764.2  
17056.5  
17549.4  
18197.1  
18907.8  
19503.8  
*19819.1*  
19458.0  
19096.9  
18758.8  
18403.4  
17990.8  
17543.7  
17062.3  
16535.0  
15853.0  
14947.4  
14139.3  
13336.9  
11285.1  
9055.6  
6401.9  
3301.3  
1965.9  
1530.3  
1249.4  
934.2  
722.2  
567.4  
212.1  
114.6  
57.3  
0.0

(END OF REPORT)