

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: P638850

Luminaire Tested: **EPH-VN-08-D-740-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638850  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-740-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41088.1 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

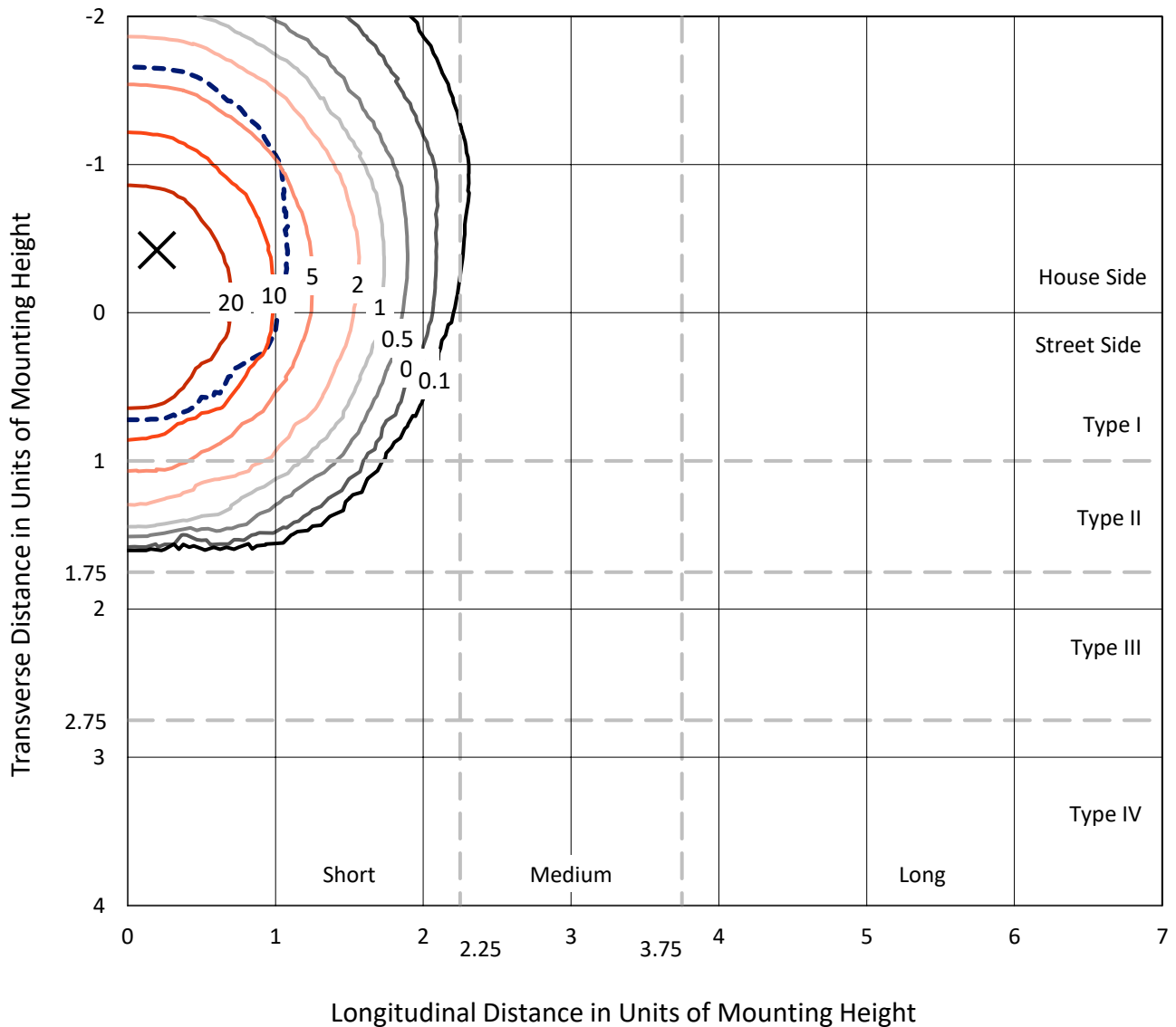
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

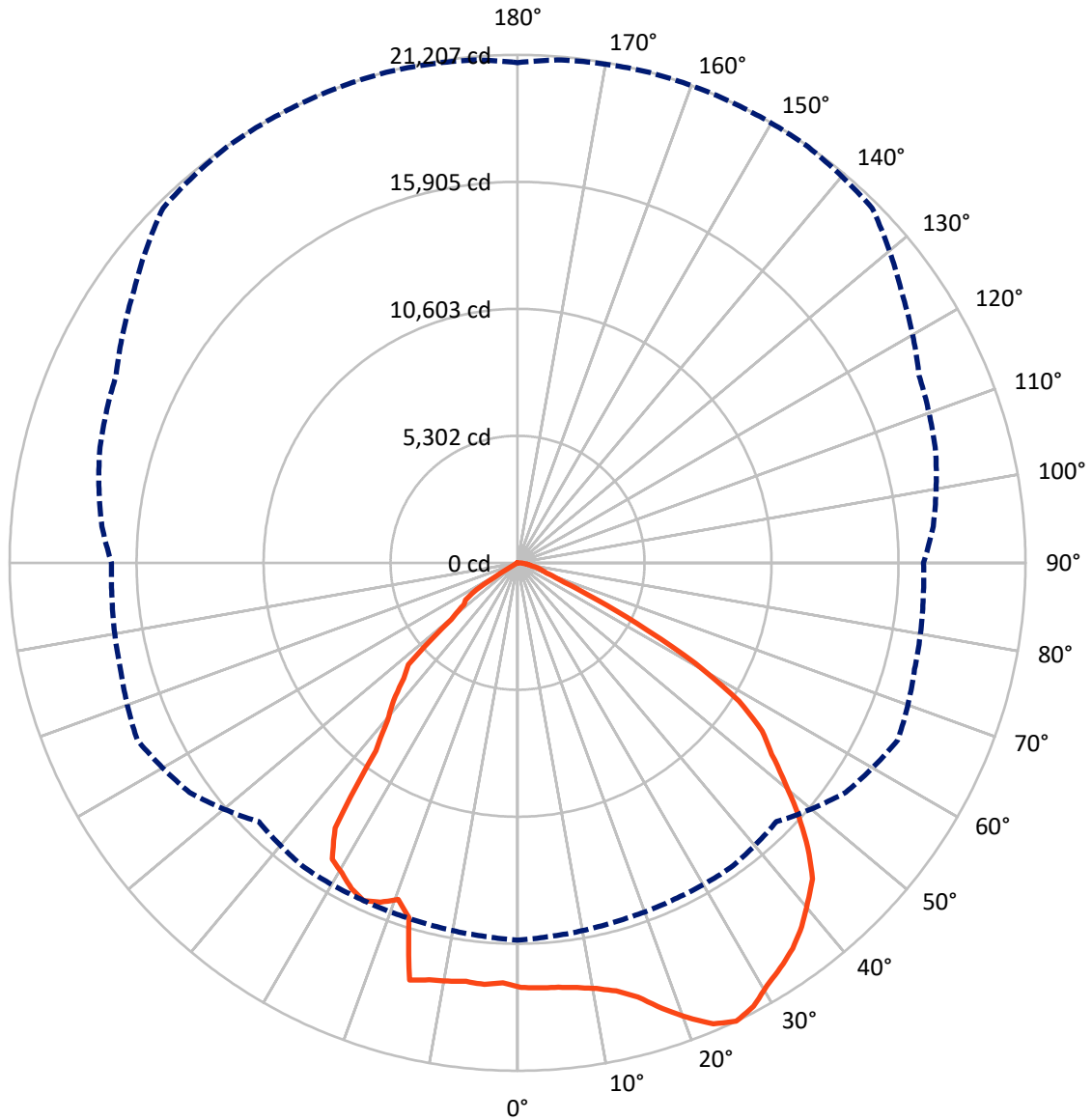
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.3 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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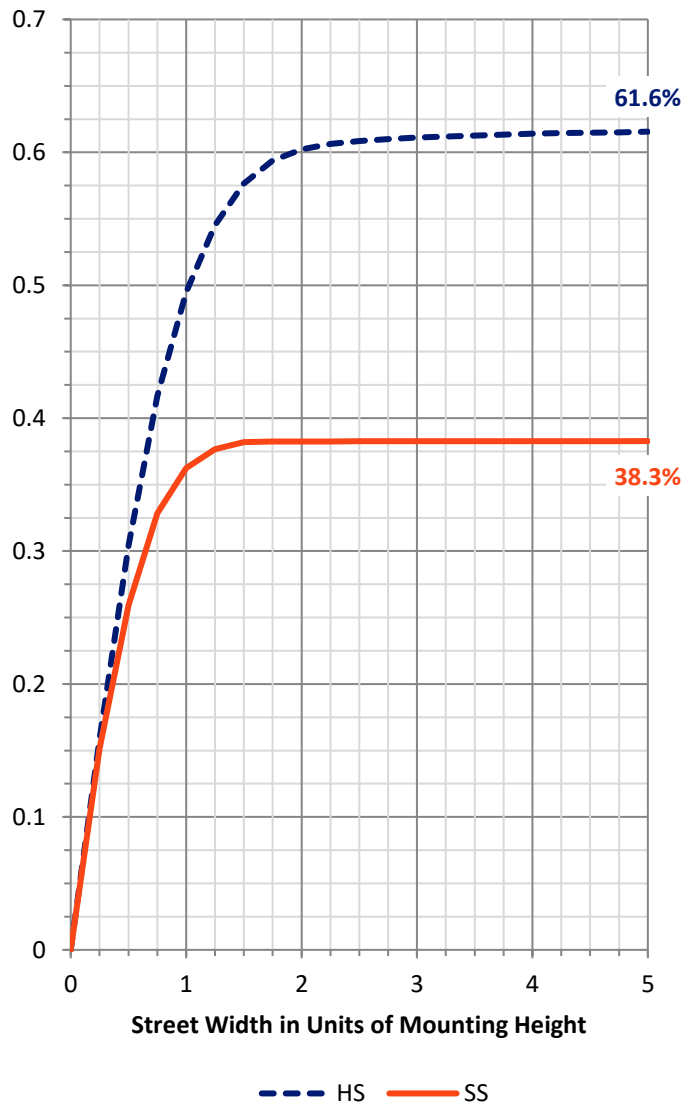
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25437.7	0.0	25437.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	15650.3	0.0	15650.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	41088.1	0.0	41088.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1700.8	4.1
10°-20°	5193.4	12.6
20°-30°	8210.5	20.0
30°-40°	9274.5	22.6
40°-50°	8685.7	21.1
50°-60°	5988.2	14.6
60°-70°	1608.8	3.9
70°-80°	335.3	0.8
80°-90°	90.7	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°	41088.1	100.0
0°-180°	41088.1	100.0

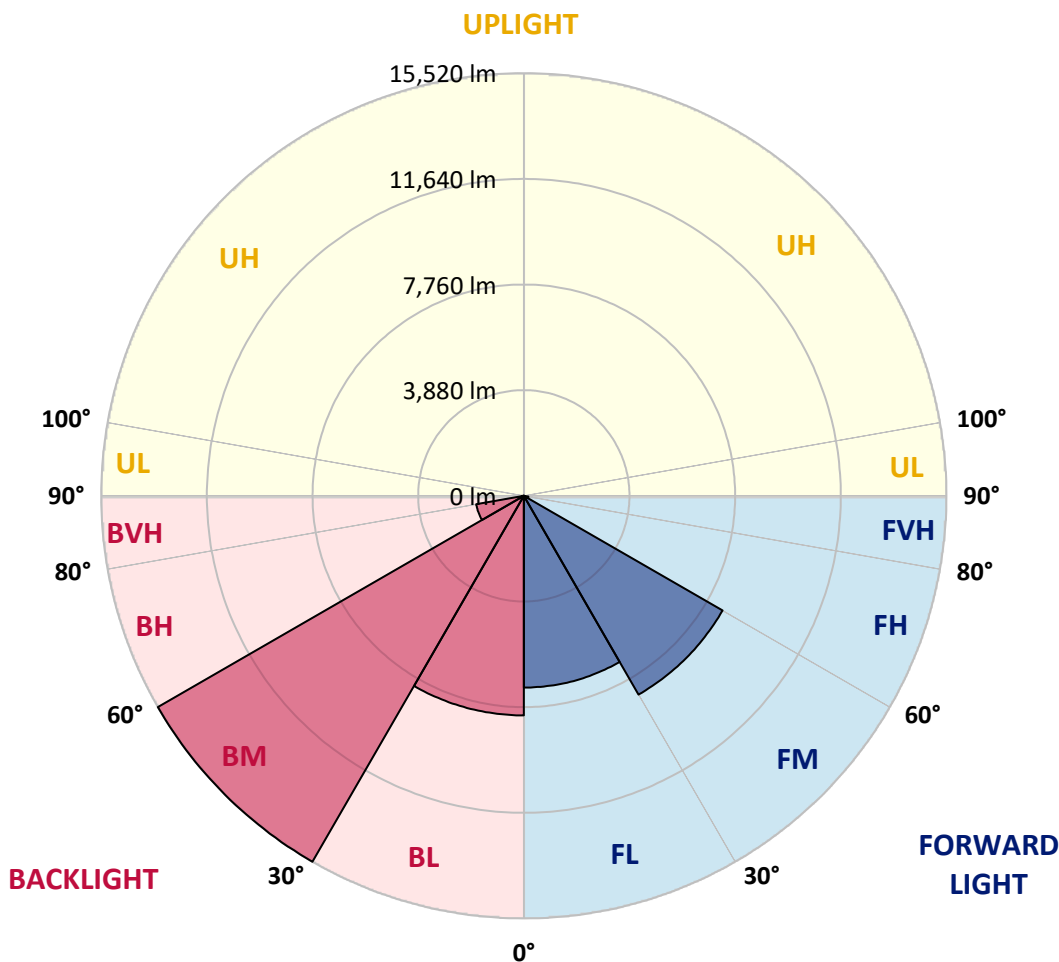


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7041.2	17.1			
FM (30°-60°)	8428.1	20.5			
FH (60°-80°)	168.9	0.4			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	8063.6	19.6	B5		
BM (30°-60°)	15520.4	37.8	B5		
BH (60°-80°)	1775.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	78.5	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°	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8
2.5°	17807.3	17692.5	17583.8	17547.6	17698.6	17861.6	17759.0	17765.0	17728.8	17795.2
5°	17940.1	17783.1	17710.6	17656.3	17680.5	17849.5	17704.6	17759.0	17698.6	17777.1
7.5°	17891.8	17783.1	17710.6	17608.0	17686.5	17885.8	17746.9	17752.9	17722.7	17795.2
10°	17861.6	17783.1	17692.5	17704.6	17795.2	17964.3	17855.6	17916.0	17873.7	17916.0
12.5°	17934.1	17849.5	17801.2	17801.2	17879.7	18073.0	18018.6	18073.0	18054.8	18091.1
15°	17251.7	17330.2	17789.1	17994.5	18151.5	18344.7	18320.5	18374.9	18387.0	18441.3
17.5°	14552.6	14474.1	14437.8	15494.6	18302.4	18900.2	18882.1	18876.1	18815.7	18773.4
20°	14908.8	14878.6	14836.4	14914.9	15228.9	19190.1	19310.8	18568.1	18350.7	18332.6
22.5°	15476.4	15428.1	15271.1	15277.2	15373.8	16684.1	18713.0	18036.7	17964.3	17922.0
25°	15754.2	15657.6	15530.8	15494.6	15524.7	15283.2	16714.3	17517.4	17161.2	16998.1
27.5°	15265.1	15271.1	15168.5	15265.1	15150.4	14063.5	13453.6	16503.0	16490.9	16418.4
30°	14896.8	14878.6	14757.9	14878.6	14087.6	12873.9	12614.2	15391.9	15265.1	15168.5
32.5°	13767.6	13779.6	14129.9	14600.9	13302.6	12342.5	11557.5	13749.5	14951.1	14896.8
35°	9848.6	9872.8	11116.7	13441.5	12113.0	11285.8	11225.4	11883.6	14455.9	14480.1
37.5°	9480.3	9480.3	9450.1	9830.5	11177.1	10857.1	10977.8	10911.4	13242.2	13302.6
40°	9214.6	9160.3	9118.0	8520.2	7771.4	10555.1	10639.7	10337.8	12517.6	12529.7
42.5°	8894.6	8834.2	8846.3	7741.2	6956.2	9806.4	9570.9	9166.3	11309.9	11322.0
45°	8308.8	8411.5	8484.0	6775.1	6714.7	7004.6	8828.2	8574.5	10494.8	10718.2
47.5°	4226.9	4317.5	6624.1	6231.6	6370.5	6225.6	7457.4	7463.5	8731.5	9474.3
50°	3834.4	3810.2	3816.3	3635.1	5881.4	5036.0	5392.3	6841.5	6992.5	8055.2
52.5°	3574.7	3568.7	3200.4	2844.1	3695.5	4432.2	3912.9	4951.5	5199.1	6823.4
55°	2644.8	2838.1	2524.1	2675.0	2312.7	3550.6	3532.5	4468.4	4553.0	5470.8
57.5°	24.2	30.2	72.5	2034.9	1600.2	1775.3	2439.5	3049.4	3200.4	4263.1
60°	6.0	12.1	30.2	60.4	1038.6	1093.0	1630.4	1763.2	1986.6	2542.2
62.5°	0.0	0.0	12.1	30.2	54.3	446.8	519.3	567.6	875.6	1298.3
65°	0.0	0.0	6.0	18.1	30.2	72.5	126.8	265.7	380.4	471.0
67.5°	0.0	0.0	6.0	12.1	24.2	36.2	72.5	102.7	163.0	277.8
70°	0.0	0.0	6.0	12.1	18.1	30.2	48.3	72.5	96.6	138.9
72.5°	0.0	0.0	6.0	12.1	12.1	36.2	36.2	54.3	72.5	90.6
75°	0.0	0.0	6.0	6.0	12.1	24.2	36.2	42.3	48.3	72.5
77.5°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	48.3	42.3	42.3
80°	0.0	0.0	6.0	18.1	18.1	30.2	36.2	48.3	30.2	30.2
82.5°	0.0	0.0	6.0	24.2	18.1	60.4	60.4	66.4	24.2	24.2
85°	0.0	0.0	18.1	12.1	36.2	60.4	54.3	36.2	30.2	18.1
87.5°	0.0	0.0	6.0	6.0	12.1	18.1	42.3	36.2	12.1	12.1
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°
17728.8	0°	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8	17728.8
17620.1	2.5°	17861.6	17783.1	17946.1	17928.0	17849.5	17813.3	17771.0	17734.8	17469.1
17632.2	5°	17867.6	17746.9	17946.1	17909.9	17897.8	17837.5	17801.2	17855.6	17614.0
17680.5	7.5°	17867.6	17746.9	17964.3	17976.3	17958.2	17909.9	17903.9	17940.1	17740.8
17765.0	10°	17988.4	17940.1	18121.3	18139.4	18115.2	18103.1	18073.0	18048.8	17837.5
18054.8	12.5°	18242.0	18145.4	18350.7	18405.1	18387.0	18417.1	18344.7	18380.9	18163.5
18350.7	15°	18550.0	18556.0	18713.0	18833.8	18821.7	18918.3	18809.6	18906.3	18749.3
18688.9	17.5°	19021.0	19087.4	19310.8	19492.0	19558.4	19630.9	19558.4	19588.6	19365.2
18314.5	20°	18525.8	18773.4	19848.2	20180.4	20319.2	20385.7	20264.9	20301.1	20077.7
17855.6	22.5°	18079.0	18399.0	19353.1	20391.7	20820.4	20953.3	20911.0	20905.0	20820.4
16949.8	25°	17420.8	18066.9	18495.6	19594.6	20941.2	21182.7	21206.9	21200.8	21074.0
16394.3	27.5°	16611.7	16756.6	17867.6	18537.9	20095.8	21013.7	20977.4	20802.3	20633.2
15240.9	30°	15579.1	16237.3	16738.5	17807.3	19002.9	20494.4	20494.4	20361.5	20186.4
14830.3	32.5°	15053.8	15905.2	16370.1	16756.6	17777.1	19914.7	20156.2	20017.3	19878.4
14510.3	35°	14776.0	14902.8	15989.7	16339.9	17203.4	18797.6	19775.8	19636.9	19534.2
13658.9	37.5°	14166.1	14462.0	14969.2	15905.2	16170.9	17885.8	19268.6	19196.1	19075.3
12553.8	40°	12807.5	13598.5	14377.4	15265.1	15542.9	16714.3	18652.6	18682.8	18519.8
11376.4	42.5°	12004.4	12541.8	13761.5	14359.3	15108.1	15959.5	18054.8	18103.1	17988.4
10778.6	45°	11062.4	11660.2	12517.6	13604.5	14625.0	14920.9	16998.1	17505.3	17408.7
9589.0	47.5°	10198.9	10681.9	11732.6	12831.6	13960.8	13918.5	15784.4	16738.5	16605.6
8677.2	50°	8973.1	9818.5	10313.6	11322.0	13006.7	13121.5	14492.2	15838.7	15730.1
7372.9	52.5°	7566.1	8628.9	9576.9	10500.8	12040.6	12312.3	13290.5	14920.9	14848.4
5633.8	55°	6612.1	7385.0	8453.8	9196.5	10869.1	11593.7	12390.8	14045.3	14009.1
4631.5	57.5°	4703.9	6195.4	7077.0	8115.6	8997.2	10307.6	10899.3	12264.0	11925.9
2566.3	60°	3188.3	3888.7	4963.6	6080.7	6672.4	7982.8	8532.3	9625.2	9534.6
1533.8	62.5°	1684.7	2330.8	3097.7	3659.3	4088.0	5362.1	5591.6	6769.1	6738.9
615.9	65°	742.7	984.3	1678.7	1968.5	2409.3	3001.1	3200.4	3623.0	3520.4
301.9	67.5°	386.5	585.7	948.0	1165.4	1467.3	1690.8	1853.8	1986.6	2071.2
199.3	70°	235.5	428.7	585.7	809.1	1008.4	1189.6	1316.4	1497.5	1606.2
102.7	72.5°	175.1	271.7	404.6	622.0	730.6	942.0	1068.8	1201.6	1298.3
84.5	75°	96.6	181.2	326.1	489.1	585.7	766.9	881.6	972.2	1002.4
48.3	77.5°	60.4	138.9	271.7	380.4	458.9	622.0	591.8	676.3	748.8
36.2	80°	42.3	102.7	211.3	314.0	320.0	398.5	471.0	543.5	591.8
24.2	82.5°	30.2	84.5	157.0	241.5	211.3	308.0	368.3	422.7	308.0
18.1	85°	24.2	60.4	78.5	144.9	120.8	217.4	187.2	181.2	120.8
12.1	87.5°	18.1	30.2	54.3	66.4	48.3	48.3	60.4	72.5	60.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
17728.8
17288.0
17408.7
17511.4
17662.3
17970.3
18489.6
19171.9
19920.7
20548.7
<i>20880.8</i>
20500.4
20120.0
19763.7
19389.3
18954.6
18483.6
17976.3
17420.8
16702.2
15748.2
14896.8
14051.4
11889.6
9540.7
6744.9
3478.1
2071.2
1612.3
1316.4
984.3
760.8
597.8
223.4
120.8
60.4
0.0

(END OF REPORT)