

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: P638838

Luminaire Tested: **EPH-VN-08-D-730-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638838  
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-730-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37414.8 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

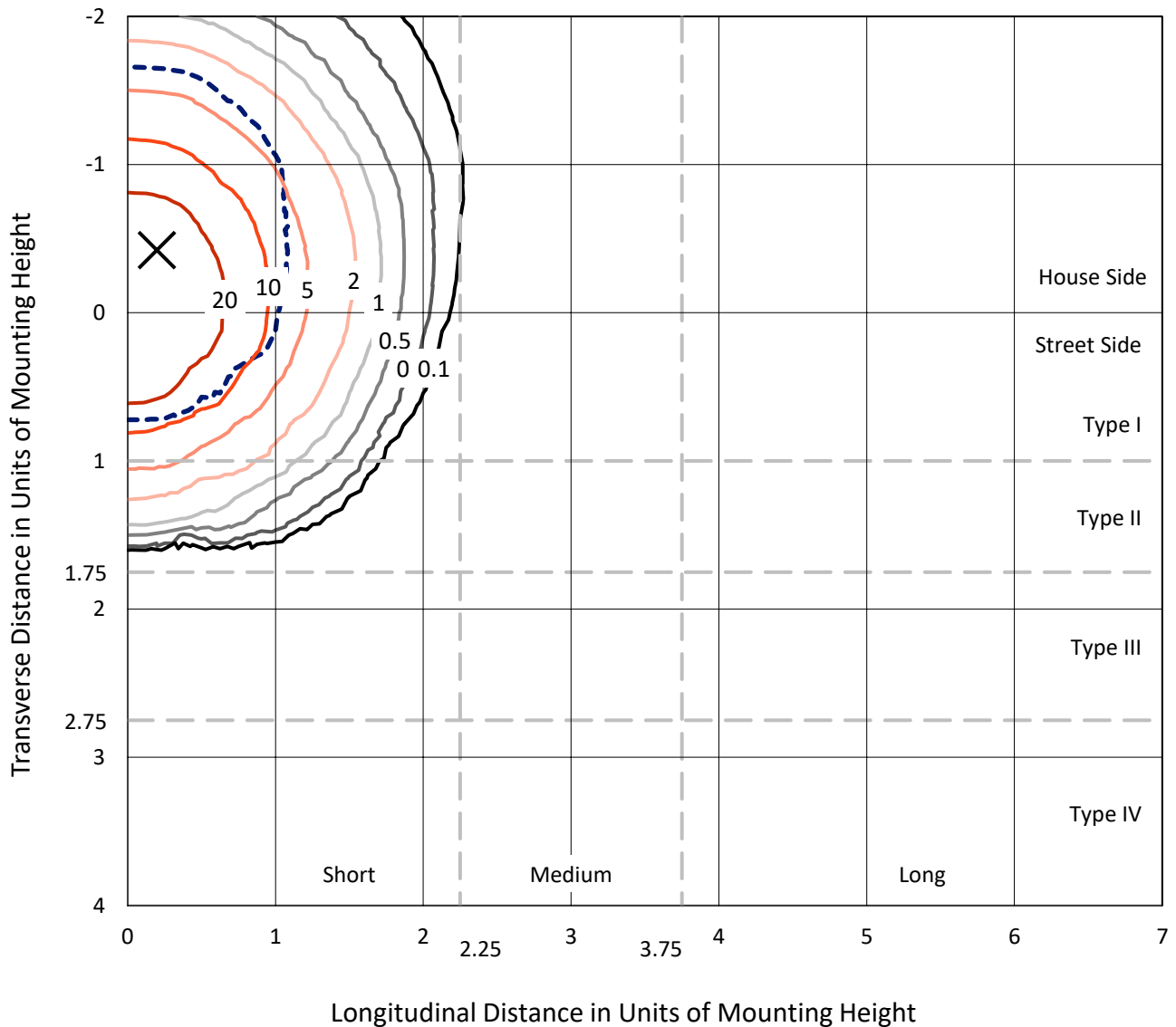
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638838  
 CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

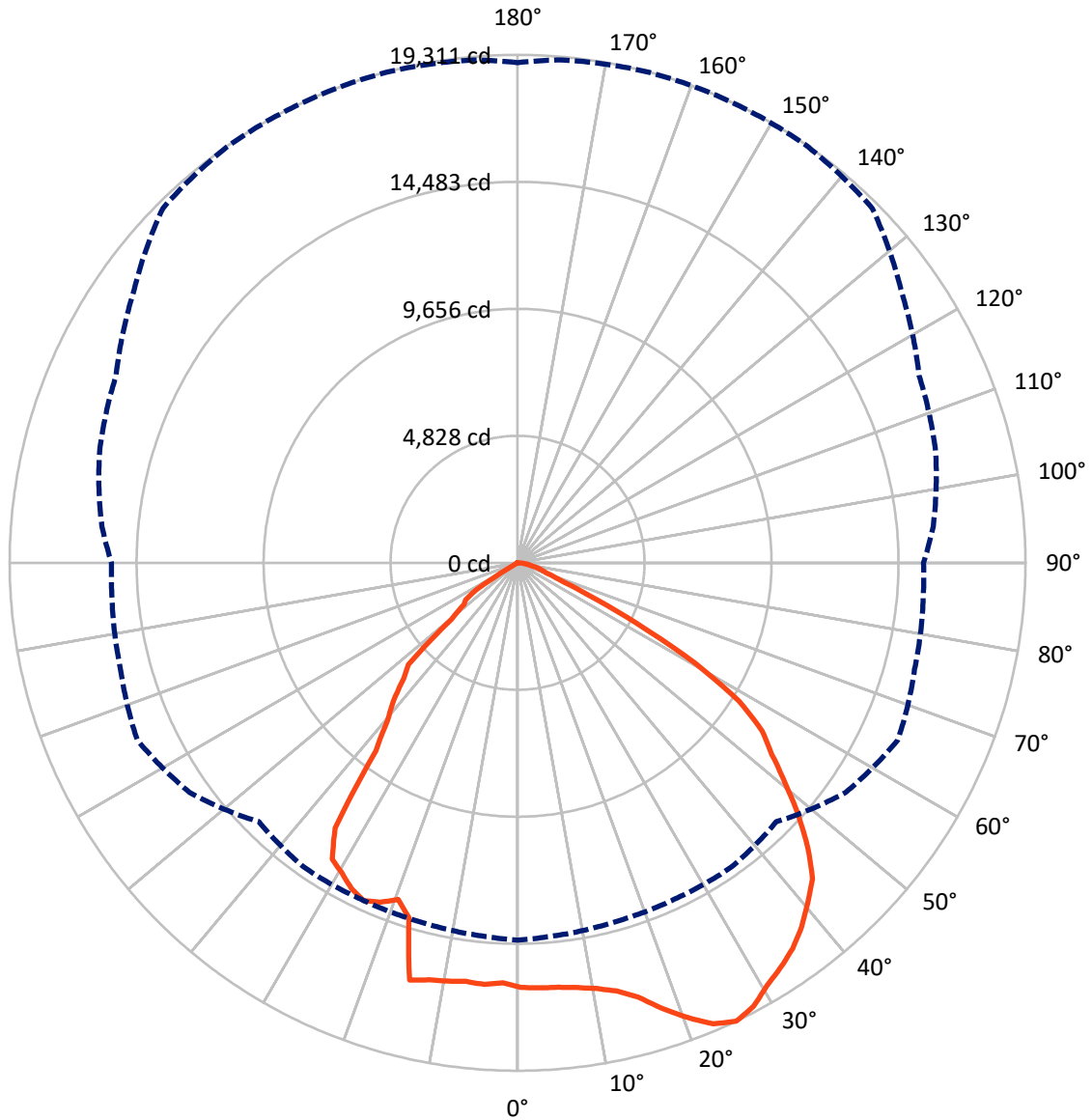
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P638838  
CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638838  
 CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

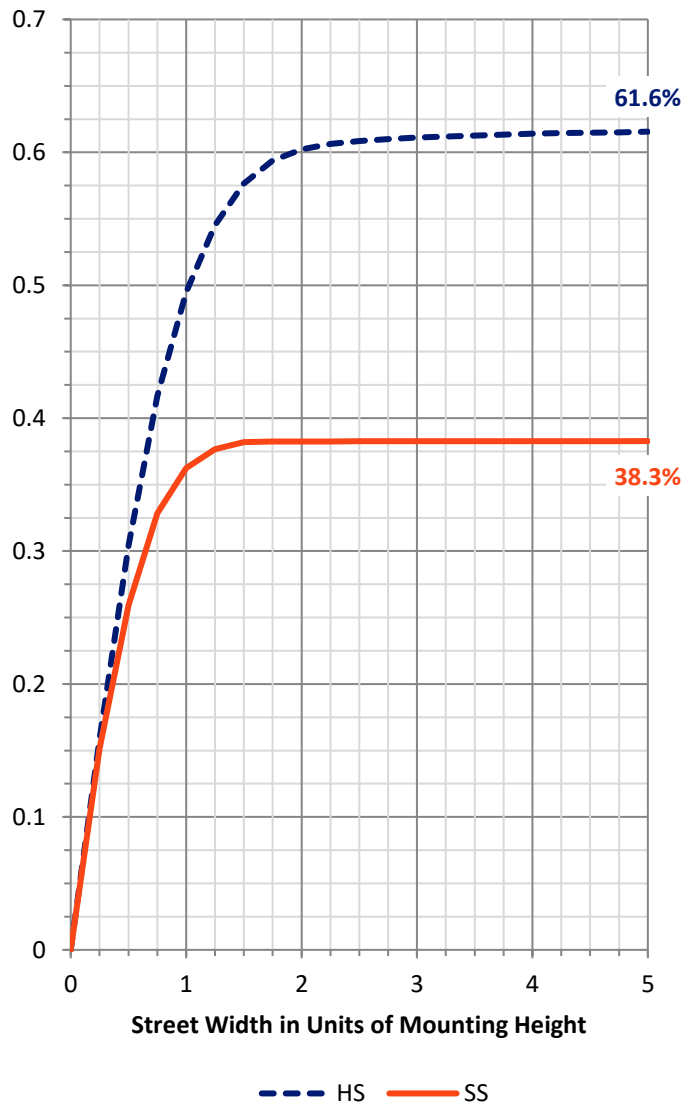
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23163.6	0.0	23163.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	14251.2	0.0	14251.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	37414.8	0.0	37414.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1548.8	4.1
10°-20°	4729.1	12.6
20°-30°	7476.5	20.0
30°-40°	8445.4	22.6
40°-50°	7909.2	21.1
50°-60°	5452.9	14.6
60°-70°	1465.0	3.9
70°-80°	305.3	0.8
80°-90°	82.6	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°	37414.8	100.0
0°-180°	37414.8	100.0

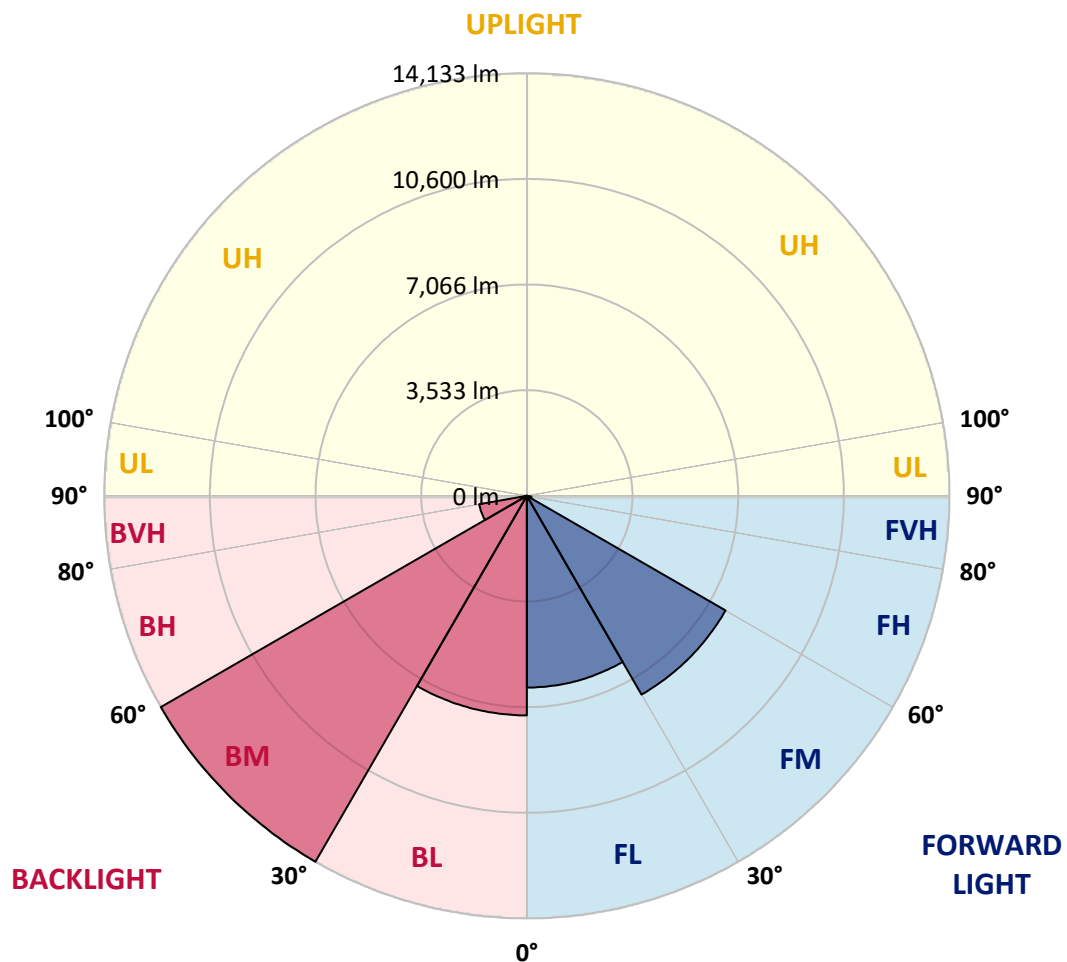


REPORT NUMBER: P638838  
 CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6411.7	17.1			
FM (30°-60°)	7674.6	20.5			
FH (60°-80°)	153.8	0.4			G0/660
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	7342.7	19.6	B5		
BM (30°-60°)	14132.9	37.8	B5		
BH (60°-80°)	1616.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.5	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





REPORT NUMBER: P638838

CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8
2.5°	16215.3	16110.8	16011.8	15978.9	16116.3	16264.8	16171.3	16176.8	16143.8	16204.3
5°	16336.3	16193.3	16127.3	16077.8	16099.8	16253.8	16121.8	16171.3	16116.3	16187.8
7.5°	16292.3	16193.3	16127.3	16033.8	16105.3	16286.8	16160.3	16165.8	16138.3	16204.3
10°	16264.8	16193.3	16110.8	16121.8	16204.3	16358.3	16259.3	16314.3	16275.8	16314.3
12.5°	16330.8	16253.8	16209.8	16209.8	16281.3	16457.2	16407.7	16457.2	16440.7	16473.7
15°	15709.4	15780.9	16198.8	16385.8	16528.7	16704.7	16682.7	16732.2	16743.2	16792.6
17.5°	13251.6	13180.1	13147.1	14109.3	16666.2	17210.5	17194.0	17188.5	17133.6	17095.1
20°	13576.0	13548.5	13510.0	13581.5	13867.4	17474.5	17584.4	16908.1	16710.2	16693.7
22.5°	14092.8	14048.9	13905.9	13911.4	13999.4	15192.6	17040.1	16424.2	16358.3	16319.8
25°	14345.8	14257.8	14142.3	14109.3	14136.8	13916.9	15220.1	15951.4	15626.9	15478.5
27.5°	13900.4	13905.9	13812.4	13900.4	13795.9	12806.2	12250.8	15027.6	15016.6	14950.6
30°	13565.0	13548.5	13438.5	13548.5	12828.2	11723.0	11486.5	14015.9	13900.4	13812.4
32.5°	12536.7	12547.7	12866.7	13295.6	12113.4	11239.1	10524.3	12520.3	13614.5	13565.0
35°	8968.2	8990.2	10122.9	12239.8	11030.1	10276.8	10221.8	10821.2	13163.6	13185.6
37.5°	8632.8	8632.8	8605.3	8951.7	10177.9	9886.4	9996.4	9935.9	12058.4	12113.4
40°	8390.8	8341.3	8302.8	7758.5	7076.7	9611.5	9688.5	9413.6	11398.5	11409.5
42.5°	8099.4	8044.4	8055.4	7049.2	6334.4	8929.7	8715.2	8346.8	10298.8	10309.8
45°	7566.0	7659.5	7725.5	6169.4	6114.4	6378.3	8038.9	7808.0	9556.5	9760.0
47.5°	3849.0	3931.5	6031.9	5674.5	5801.0	5669.0	6790.7	6796.2	7950.9	8627.3
50°	3491.6	3469.6	3475.1	3310.1	5355.6	4585.8	4910.2	6229.9	6367.3	7335.1
52.5°	3255.2	3249.7	2914.2	2589.8	3365.1	4036.0	3563.1	4508.8	4734.3	6213.4
55°	2408.4	2584.3	2298.4	2435.9	2106.0	3233.2	3216.7	4068.9	4145.9	4981.7
57.5°	22.0	27.5	66.0	1853.0	1457.1	1616.6	2221.4	2776.8	2914.2	3882.0
60°	5.5	11.0	27.5	55.0	945.8	995.2	1484.6	1605.6	1809.0	2314.9
62.5°	0.0	0.0	11.0	27.5	49.5	406.9	472.9	516.9	797.3	1182.2
65°	0.0	0.0	5.5	16.5	27.5	66.0	115.5	241.9	346.4	428.9
67.5°	0.0	0.0	5.5	11.0	22.0	33.0	66.0	93.5	148.5	252.9
70°	0.0	0.0	5.5	11.0	16.5	27.5	44.0	66.0	88.0	126.5
72.5°	0.0	0.0	5.5	11.0	11.0	33.0	33.0	49.5	66.0	82.5
75°	0.0	0.0	5.5	5.5	11.0	22.0	33.0	38.5	44.0	66.0
77.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	44.0	38.5	38.5
80°	0.0	0.0	5.5	16.5	16.5	27.5	33.0	44.0	27.5	27.5
82.5°	0.0	0.0	5.5	22.0	16.5	55.0	55.0	60.5	22.0	22.0
85°	0.0	0.0	16.5	11.0	33.0	55.0	49.5	33.0	27.5	16.5
87.5°	0.0	0.0	5.5	5.5	11.0	16.5	38.5	33.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638838  
 CATALOG NUMBER: EPH-VN-08-D-730-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16143.8	0°	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8	16143.8
16044.8	2.5°	16264.8	16193.3	16341.8	16325.3	16253.8	16220.8	16182.3	16149.3	15907.4
16055.8	5°	16270.3	16160.3	16341.8	16308.8	16297.8	16242.8	16209.8	16259.3	16039.3
16099.8	7.5°	16270.3	16160.3	16358.3	16369.3	16352.8	16308.8	16303.3	16336.3	16154.8
16176.8	10°	16380.3	16336.3	16501.2	16517.7	16495.7	16484.7	16457.2	16435.2	16242.8
16440.7	12.5°	16611.2	16523.2	16710.2	16759.7	16743.2	16770.7	16704.7	16737.7	16539.7
16710.2	15°	16891.6	16897.1	17040.1	17150.1	17139.1	17227.0	17128.1	17216.0	17073.1
17018.1	17.5°	17320.5	17381.0	17584.4	17749.4	17809.9	17875.9	17809.9	17837.4	17633.9
16677.2	20°	16869.6	17095.1	18073.8	18376.2	18502.7	18563.2	18453.2	18486.2	18282.8
16259.3	22.5°	16462.7	16754.2	17622.9	18568.7	18959.1	19080.1	19041.6	19036.1	18959.1
15434.5	25°	15863.4	16451.7	16842.1	17842.9	19069.1	19289.0	19311.0	19305.5	19190.0
14928.6	27.5°	15126.6	15258.5	16270.3	16880.6	18299.3	19135.0	19102.0	18942.6	18788.6
13878.4	30°	14186.3	14785.7	15242.0	16215.3	17304.0	18662.2	18662.2	18541.2	18381.7
13504.5	32.5°	13707.9	14483.2	14906.6	15258.5	16187.8	18134.3	18354.2	18227.8	18101.3
13213.1	35°	13455.0	13570.5	14560.2	14879.1	15665.4	17117.1	18007.8	17881.4	17787.9
12437.8	37.5°	12899.7	13169.1	13631.0	14483.2	14725.2	16286.8	17545.9	17480.0	17370.0
11431.5	40°	11662.5	12382.8	13092.1	13900.4	14153.3	15220.1	16985.1	17012.6	16864.1
10359.3	42.5°	10931.2	11420.5	12531.3	13075.6	13757.4	14532.7	16440.7	16484.7	16380.3
9815.0	45°	10073.4	10617.7	11398.5	12388.3	13317.5	13587.0	15478.5	15940.4	15852.4
8731.7	47.5°	9287.1	9727.0	10683.7	11684.5	12712.7	12674.2	14373.3	15242.0	15121.1
7901.5	50°	8170.9	8940.7	9391.6	10309.8	11843.9	11948.4	13196.6	14422.8	14323.8
6713.8	52.5°	6889.7	7857.5	8720.7	9562.0	10964.2	11211.6	12102.4	13587.0	13521.0
5130.2	55°	6020.9	6724.8	7698.0	8374.3	9897.4	10557.3	11283.1	12789.7	12756.7
4217.4	57.5°	4283.4	5641.5	6444.3	7390.1	8192.9	9386.1	9924.9	11167.6	10859.7
2336.9	60°	2903.2	3541.1	4519.8	5537.1	6075.9	7269.1	7769.5	8764.7	8682.2
1396.6	62.5°	1534.1	2122.4	2820.8	3332.1	3722.5	4882.7	5091.7	6163.9	6136.4
560.9	65°	676.3	896.3	1528.6	1792.5	2193.9	2732.8	2914.2	3299.1	3205.7
274.9	67.5°	351.9	533.4	863.3	1061.2	1336.2	1539.6	1688.1	1809.0	1886.0
181.5	70°	214.4	390.4	533.4	736.8	918.3	1083.2	1198.7	1363.6	1462.6
93.5	72.5°	159.5	247.4	368.4	566.4	665.3	857.8	973.2	1094.2	1182.2
77.0	75°	88.0	165.0	296.9	445.4	533.4	698.3	802.8	885.3	912.8
44.0	77.5°	55.0	126.5	247.4	346.4	417.9	566.4	538.9	615.8	681.8
33.0	80°	38.5	93.5	192.5	285.9	291.4	362.9	428.9	494.9	538.9
22.0	82.5°	27.5	77.0	143.0	219.9	192.5	280.4	335.4	384.9	280.4
16.5	85°	22.0	55.0	71.5	132.0	110.0	197.9	170.5	165.0	110.0
11.0	87.5°	16.5	27.5	49.5	60.5	44.0	44.0	55.0	66.0	55.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16143.8  
15742.4  
15852.4  
15945.9  
16083.3  
16363.8  
16836.6  
17458.0  
18139.8  
18711.6  
*19014.1*  
18667.7  
18321.2  
17996.8  
17655.9  
17260.0  
16831.1  
16369.3  
15863.4  
15209.1  
14340.3  
13565.0  
12795.2  
10826.7  
8687.7  
6141.9  
3167.2  
1886.0  
1468.1  
1198.7  
896.3  
692.8  
544.4  
203.4  
110.0  
55.0  
0.0

(END OF REPORT)