

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: P638842

Luminaire Tested: **EPH-VN-06-E-735-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638842
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-735-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38464.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

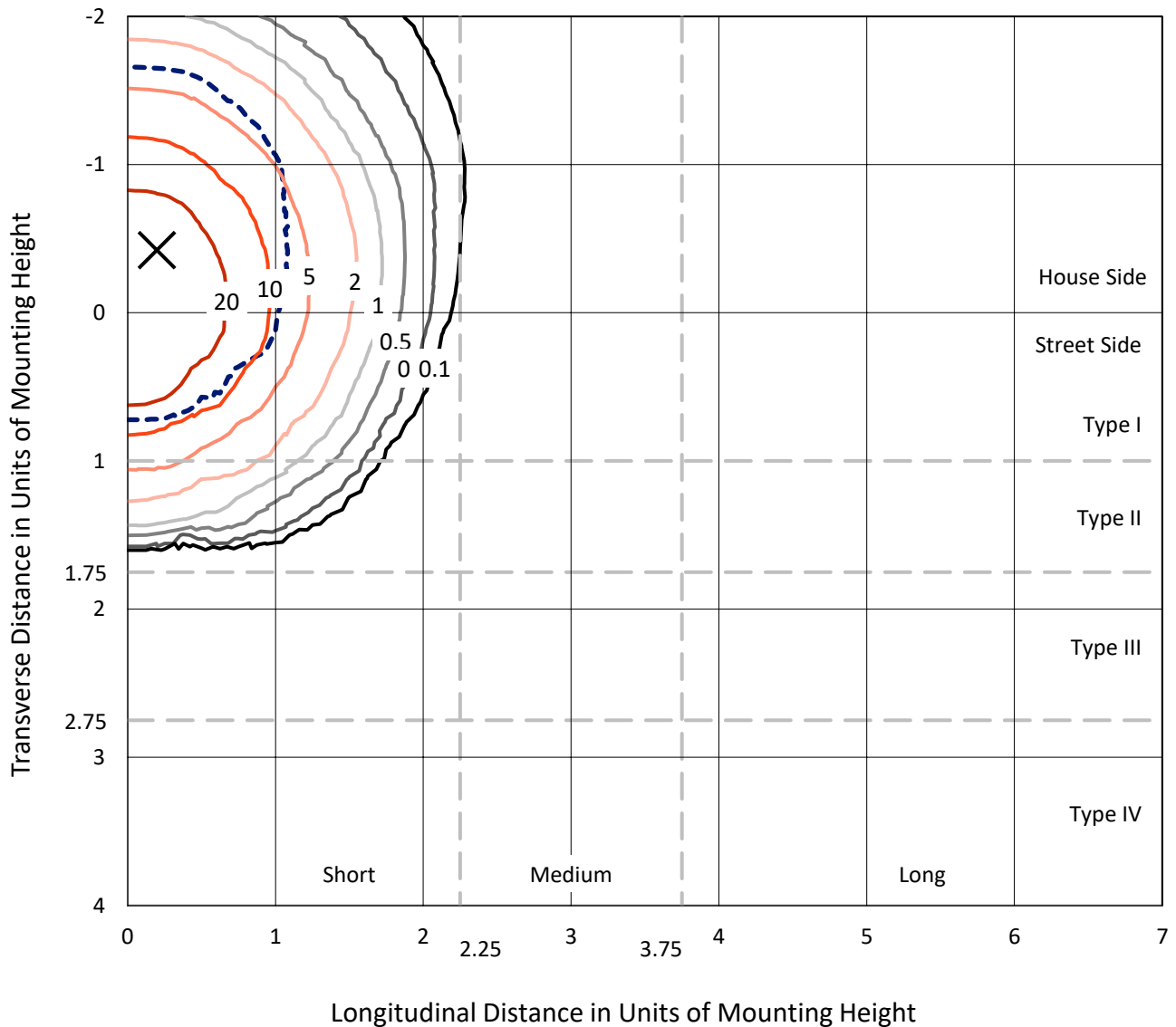
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638842
 CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

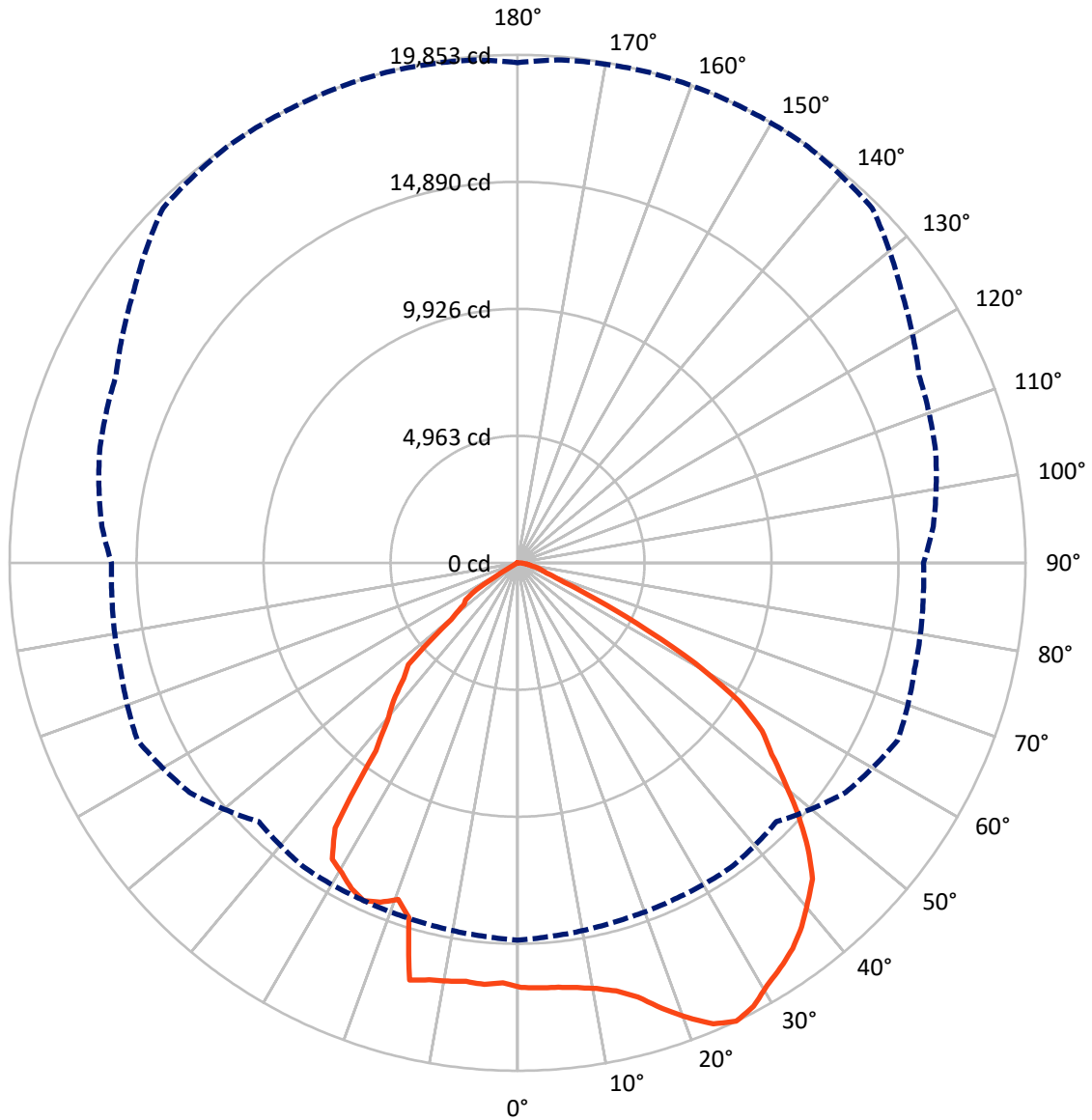
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638842
CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638842
 CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

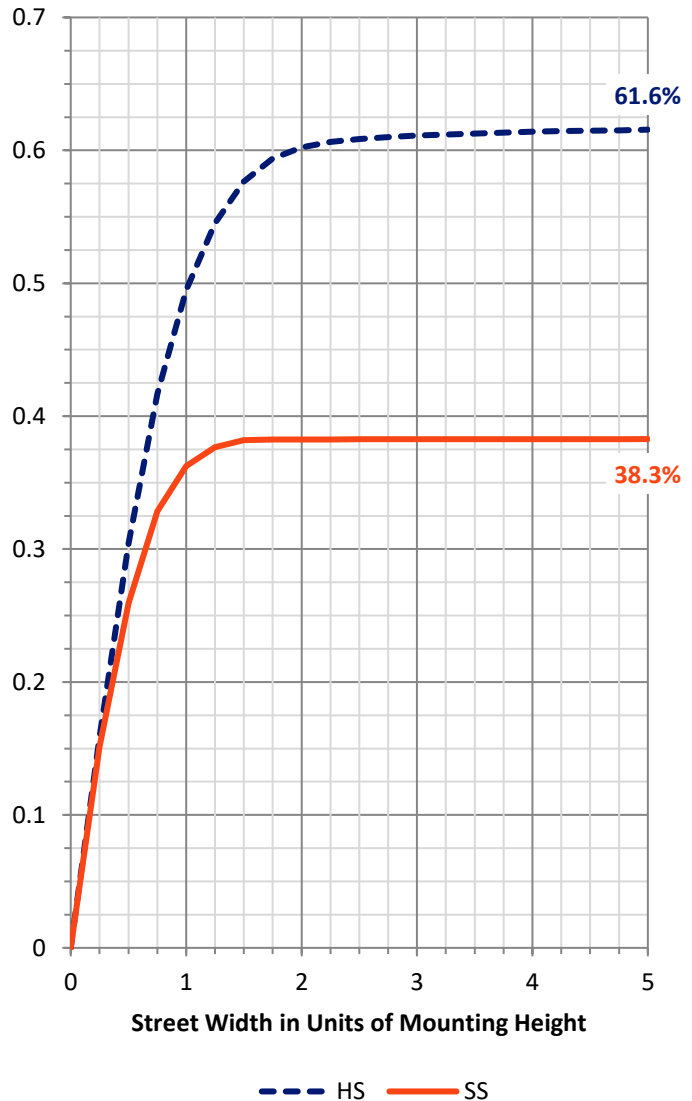
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23813.5	0.0	23813.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	14651.0	0.0	14651.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	38464.5	0.0	38464.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1592.2	4.1
10°-20°	4861.8	12.6
20°-30°	7686.3	20.0
30°-40°	8682.3	22.6
40°-50°	8131.2	21.1
50°-60°	5605.8	14.6
60°-70°	1506.1	3.9
70°-80°	313.9	0.8
80°-90°	84.9	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°	38464.5	100.0
0°-180°	38464.5	100.0

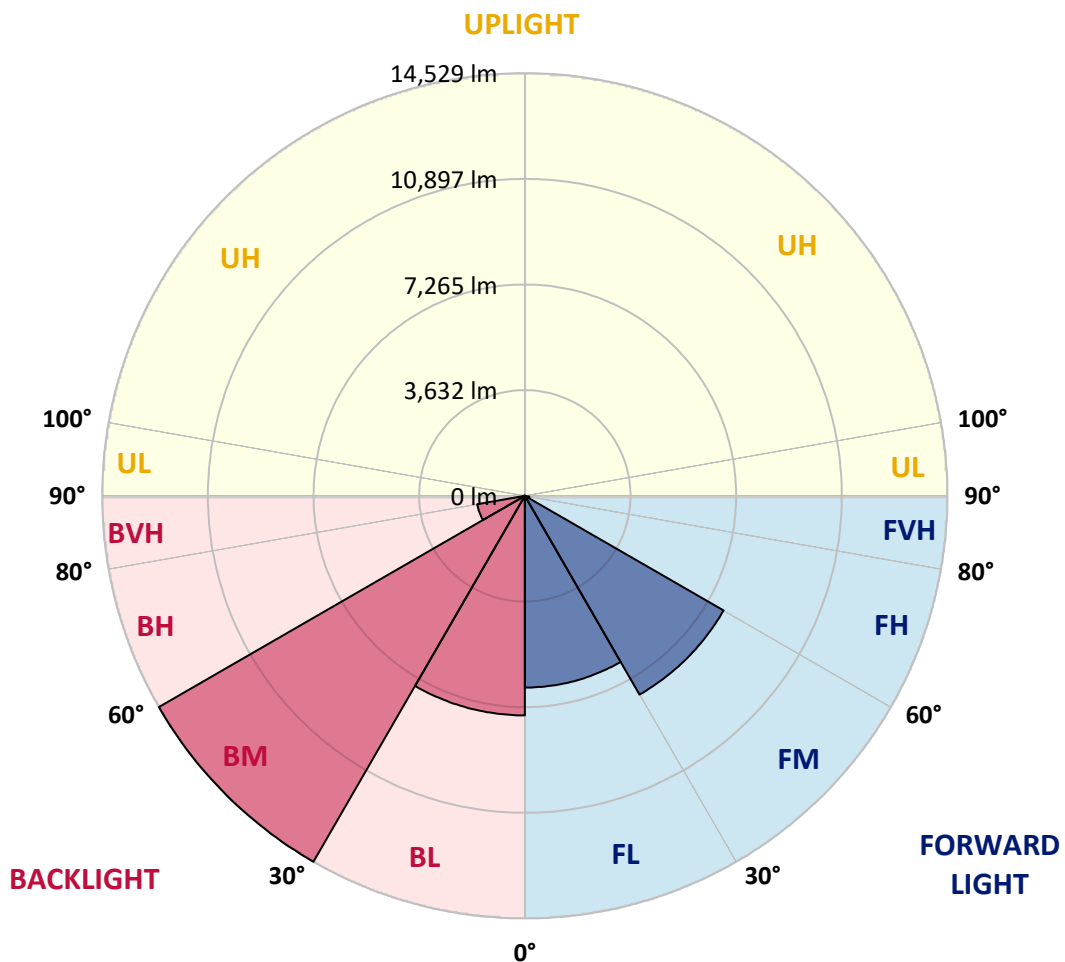


REPORT NUMBER: P638842
 CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6591.6	17.1			
FM (30°-60°)	7889.9	20.5			
FH (60°-80°)	158.1	0.4			G0/660
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	7548.7	19.6	B5		
BM (30°-60°)	14529.4	37.8	B5		
BH (60°-80°)	1661.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	73.5	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: P638842
 CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8
2.5°	16670.2	16562.8	16461.1	16427.2	16568.5	16721.1	16625.0	16630.7	16596.8	16658.9
5°	16794.6	16647.6	16579.8	16528.9	16551.5	16709.8	16574.1	16625.0	16568.5	16642.0
7.5°	16749.4	16647.6	16579.8	16483.7	16557.2	16743.7	16613.7	16619.4	16591.1	16658.9
10°	16721.1	16647.6	16562.8	16574.1	16658.9	16817.2	16715.5	16772.0	16732.4	16772.0
12.5°	16788.9	16709.8	16664.6	16664.6	16738.1	16919.0	16868.1	16919.0	16902.0	16935.9
15°	16150.2	16223.7	16653.3	16845.5	16992.5	17173.3	17150.7	17201.6	17212.9	17263.8
17.5°	13623.4	13549.9	13516.0	14505.2	17133.8	17693.4	17676.4	17670.8	17614.3	17574.7
20°	13956.9	13928.6	13889.0	13962.5	14256.5	17964.7	18077.8	17382.5	17179.0	17162.0
22.5°	14488.2	14443.0	14296.0	14301.7	14392.1	15618.8	17518.2	16885.0	16817.2	16777.6
25°	14748.3	14657.8	14539.1	14505.2	14533.5	14307.4	15647.1	16398.9	16065.4	15912.8
27.5°	14290.4	14296.0	14199.9	14290.4	14183.0	13165.5	12594.5	15449.2	15437.9	15370.1
30°	13945.6	13928.6	13815.6	13928.6	13188.1	12051.9	11808.8	14409.1	14290.4	14199.9
32.5°	12888.5	12899.8	13227.7	13668.6	12453.2	11554.4	10819.5	12871.5	13996.4	13945.6
35°	9219.8	9242.4	10406.9	12583.2	11339.6	10565.2	10508.6	11124.8	13532.9	13555.5
37.5°	8875.0	8875.0	8846.7	9202.8	10463.4	10163.8	10276.9	10214.7	12396.7	12453.2
40°	8626.2	8575.4	8535.8	7976.2	7275.2	9881.2	9960.3	9677.7	11718.3	11729.7
42.5°	8326.6	8270.1	8281.4	7246.9	6512.1	9180.2	8959.8	8581.0	10587.8	10599.1
45°	7778.3	7874.4	7942.2	6342.5	6286.0	6557.3	8264.5	8027.0	9824.6	10033.8
47.5°	3957.0	4041.8	6201.2	5833.7	5963.8	5828.1	6981.3	6986.9	8174.0	8869.3
50°	3589.6	3566.9	3572.6	3403.0	5505.9	4714.5	5048.0	6404.7	6546.0	7540.9
52.5°	3346.5	3340.8	2996.0	2662.5	3459.5	4149.2	3663.0	4635.3	4867.1	6387.7
55°	2475.9	2656.8	2362.9	2504.2	2165.0	3323.9	3306.9	4183.1	4262.2	5121.5
57.5°	22.6	28.3	67.8	1905.0	1498.0	1661.9	2283.7	2854.7	2996.0	3990.9
60°	5.7	11.3	28.3	56.5	972.3	1023.2	1526.3	1650.6	1859.8	2379.8
62.5°	0.0	0.0	11.3	28.3	50.9	418.3	486.1	531.4	819.7	1215.4
65°	0.0	0.0	5.7	17.0	28.3	67.8	118.7	248.7	356.1	440.9
67.5°	0.0	0.0	5.7	11.3	22.6	33.9	67.8	96.1	152.6	260.0
70°	0.0	0.0	5.7	11.3	17.0	28.3	45.2	67.8	90.4	130.0
72.5°	0.0	0.0	5.7	11.3	11.3	33.9	33.9	50.9	67.8	84.8
75°	0.0	0.0	5.7	5.7	11.3	22.6	33.9	39.6	45.2	67.8
77.5°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	45.2	39.6	39.6
80°	0.0	0.0	5.7	17.0	17.0	28.3	33.9	45.2	28.3	28.3
82.5°	0.0	0.0	5.7	22.6	17.0	56.5	56.5	62.2	22.6	22.6
85°	0.0	0.0	17.0	11.3	33.9	56.5	50.9	33.9	28.3	17.0
87.5°	0.0	0.0	5.7	5.7	11.3	17.0	39.6	33.9	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638842
 CATALOG NUMBER: EPH-VN-06-E-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16596.8	0°	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8	16596.8
16495.0	2.5°	16721.1	16647.6	16800.3	16783.3	16709.8	16675.9	16636.3	16602.4	16353.7
16506.3	5°	16726.8	16613.7	16800.3	16766.3	16755.0	16698.5	16664.6	16715.5	16489.3
16551.5	7.5°	16726.8	16613.7	16817.2	16828.5	16811.6	16766.3	16760.7	16794.6	16608.1
16630.7	10°	16839.8	16794.6	16964.2	16981.1	16958.5	16947.2	16919.0	16896.4	16698.5
16902.0	12.5°	17077.2	16986.8	17179.0	17229.9	17212.9	17241.2	17173.3	17207.3	17003.8
17179.0	15°	17365.5	17371.2	17518.2	17631.2	17619.9	17710.4	17608.6	17699.1	17552.1
17495.6	17.5°	17806.5	17868.6	18077.8	18247.4	18309.6	18377.4	18309.6	18337.8	18128.7
17145.1	20°	17342.9	17574.7	18580.9	18891.8	19021.8	19084.0	18970.9	19004.9	18795.7
16715.5	22.5°	16924.6	17224.2	18117.4	19089.7	19491.0	19615.4	19575.8	19570.1	19491.0
15867.5	25°	16308.5	16913.3	17314.7	18343.5	19604.1	19830.2	19852.8	19847.1	19728.4
15347.5	27.5°	15551.0	15686.6	16726.8	17354.2	18812.7	19671.9	19638.0	19474.1	19315.8
14267.8	30°	14584.3	15200.5	15669.7	16670.2	17789.5	19185.8	19185.8	19061.4	18897.5
13883.4	32.5°	14092.5	14889.6	15324.9	15686.6	16642.0	18643.1	18869.2	18739.2	18609.2
13583.8	35°	13832.5	13951.2	14968.7	15296.6	16105.0	17597.3	18513.1	18383.1	18287.0
12786.7	37.5°	13261.6	13538.6	14013.4	14889.6	15138.3	16743.7	18038.2	17970.4	17857.3
11752.3	40°	11989.7	12730.2	13459.4	14290.4	14550.4	15647.1	17461.6	17489.9	17337.3
10650.0	42.5°	11237.9	11741.0	12882.8	13442.5	14143.4	14940.5	16902.0	16947.2	16839.8
10090.3	45°	10356.0	10915.6	11718.3	12735.9	13691.2	13968.2	15912.8	16387.6	16297.2
8976.7	47.5°	9547.7	9999.9	10983.5	12012.3	13069.4	13029.8	14776.5	15669.7	15545.3
8123.1	50°	8400.1	9191.5	9655.1	10599.1	12176.2	12283.6	13566.8	14827.4	14725.7
6902.1	52.5°	7083.0	8077.9	8965.4	9830.3	11271.8	11526.2	12441.9	13968.2	13900.3
5274.1	55°	6189.9	6913.4	7914.0	8609.3	10175.1	10853.5	11599.6	13148.5	13114.6
4335.7	57.5°	4403.6	5799.8	6625.1	7597.4	8422.7	9649.4	10203.4	11480.9	11164.4
2402.5	60°	2984.7	3640.4	4646.6	5692.4	6246.4	7473.1	7987.5	9010.6	8925.8
1435.8	62.5°	1577.1	2182.0	2899.9	3425.6	3827.0	5019.7	5234.5	6336.8	6308.6
576.6	65°	695.3	921.4	1571.5	1842.8	2255.5	2809.5	2996.0	3391.7	3295.6
282.6	67.5°	361.8	548.3	887.5	1091.0	1373.6	1582.8	1735.4	1859.8	1938.9
186.5	70°	220.5	401.4	548.3	757.5	944.0	1113.6	1232.3	1401.9	1503.7
96.1	72.5°	163.9	254.4	378.7	582.2	684.0	881.8	1000.6	1124.9	1215.4
79.1	75°	90.4	169.6	305.3	457.9	548.3	717.9	825.3	910.1	938.4
45.2	77.5°	56.5	130.0	254.4	356.1	429.6	582.2	554.0	633.1	701.0
33.9	80°	39.6	96.1	197.8	293.9	299.6	373.1	440.9	508.8	554.0
22.6	82.5°	28.3	79.1	147.0	226.1	197.8	288.3	344.8	395.7	288.3
17.0	85°	22.6	56.5	73.5	135.7	113.1	203.5	175.2	169.6	113.1
11.3	87.5°	17.0	28.3	50.9	62.2	45.2	45.2	56.5	67.8	56.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16596.8
16184.1
16297.2
16393.3
16534.6
16822.9
17309.0
17947.8
18648.7
19236.6
19547.5
19191.4
18835.3
18501.8
18151.3
17744.3
17303.4
16828.5
16308.5
15635.8
14742.6
13945.6
13154.2
11130.5
8931.5
6314.2
3256.0
1938.9
1509.3
1232.3
921.4
712.3
559.6
209.2
113.1
56.5
0.0

(END OF REPORT)