

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: P575212

Luminaire Tested: **EPH-VN-06-735-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575212  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

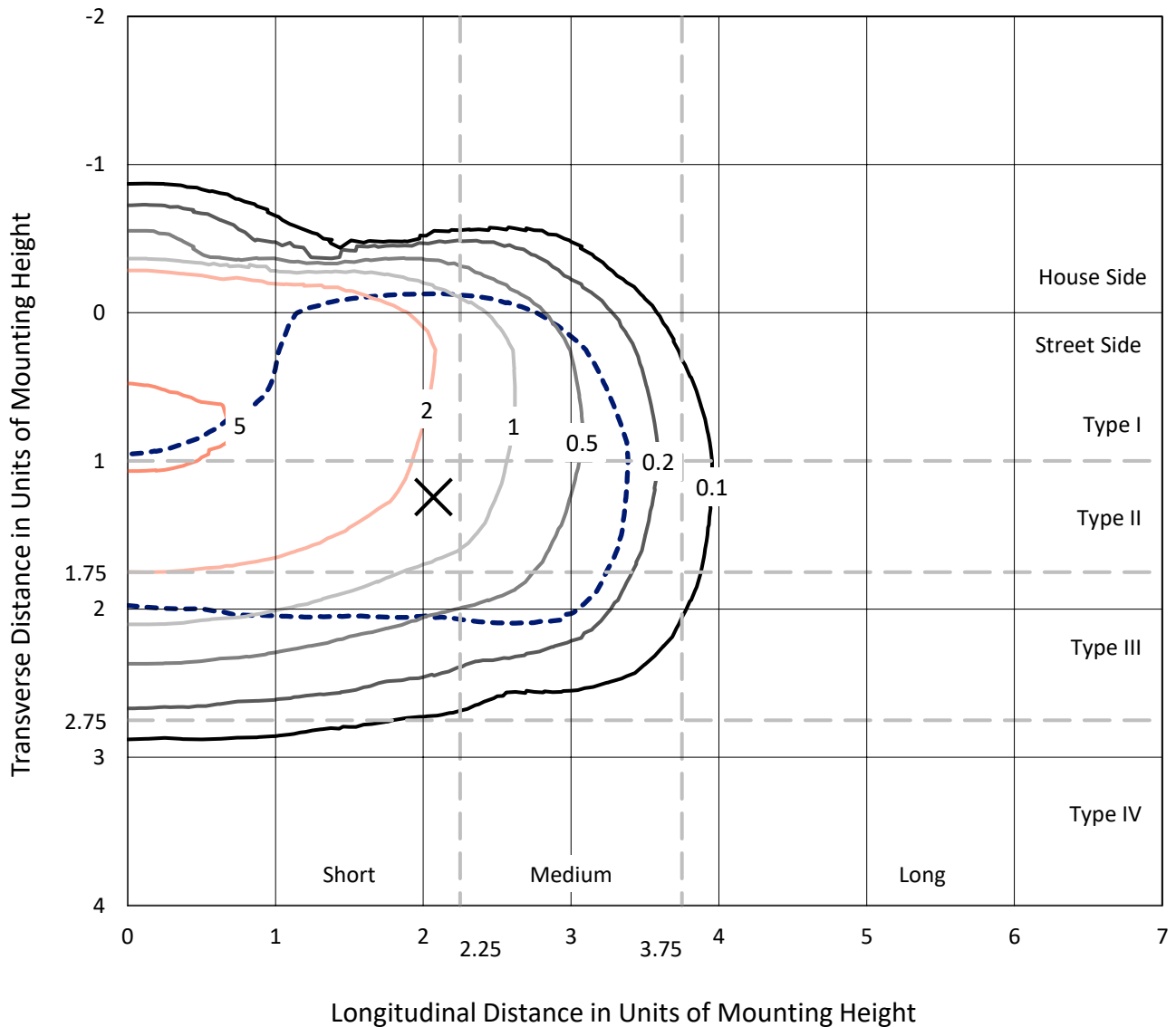
Lumens per Lamp: N/A  
Luminaire Lumens: 33462.1 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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: 24 FT

REPORT NUMBER: P575212  
 CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

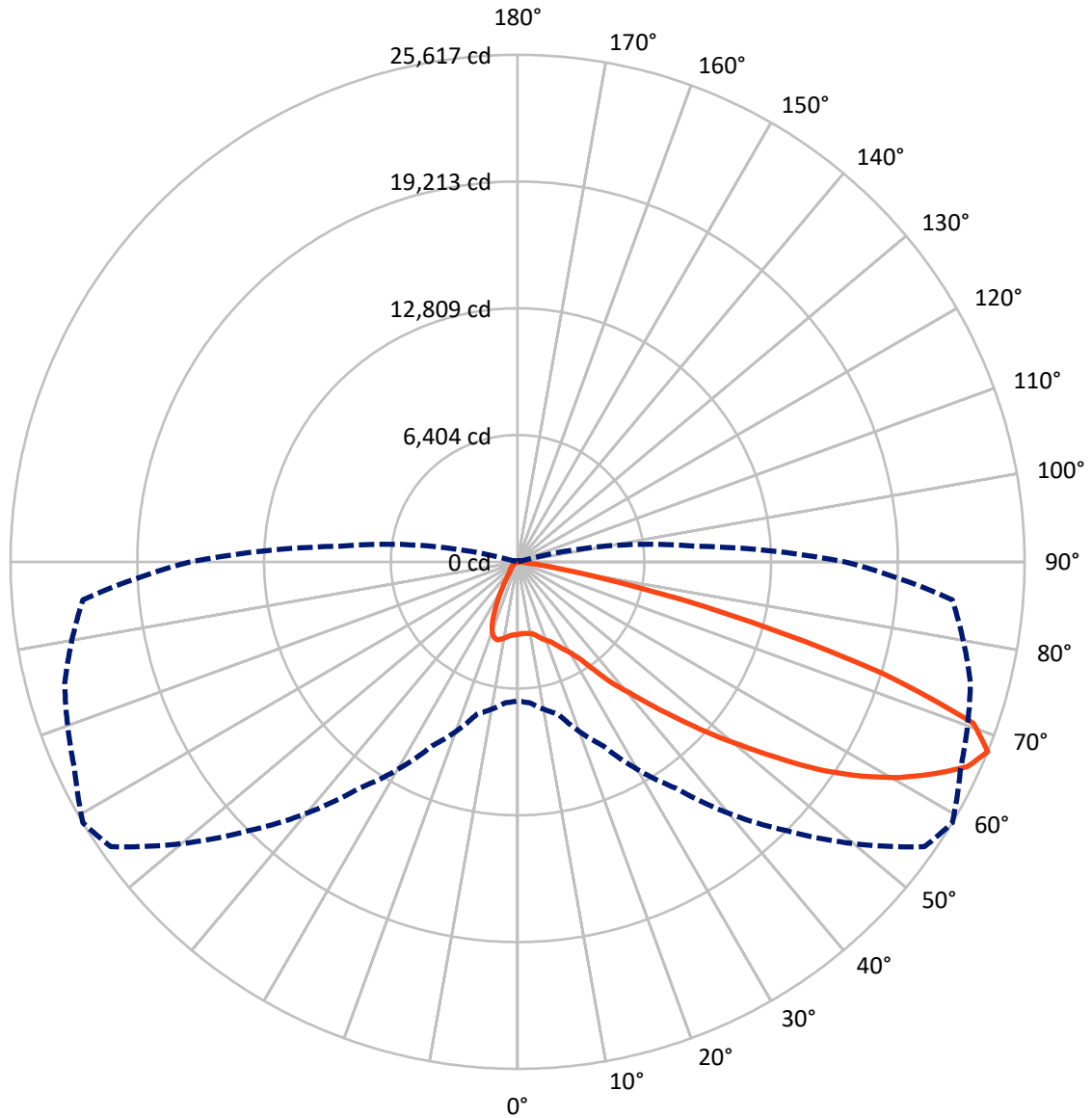
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P575212  
CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P575212  
 CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

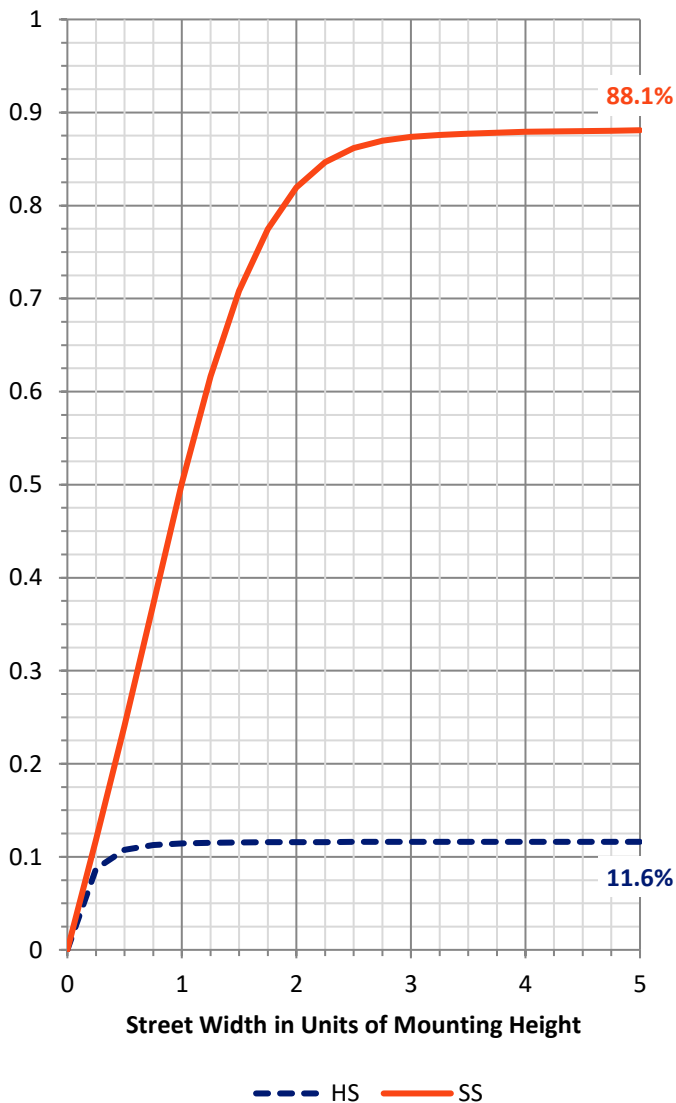
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3930.7	0.0	3930.7
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	29531.4	0.0	29531.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	33462.1	0.0	33462.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.6	1.0
10°-20°	1007.0	3.0
20°-30°	1760.1	5.3
30°-40°	3098.8	9.3
40°-50°	5477.7	16.4
50°-60°	8673.2	25.9
60°-70°	9620.9	28.8
70°-80°	3338.2	10.0
80°-90°	137.5	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°	33462.1	100.0
0°-180°	33462.1	100.0

**Coefficient of Utilization**

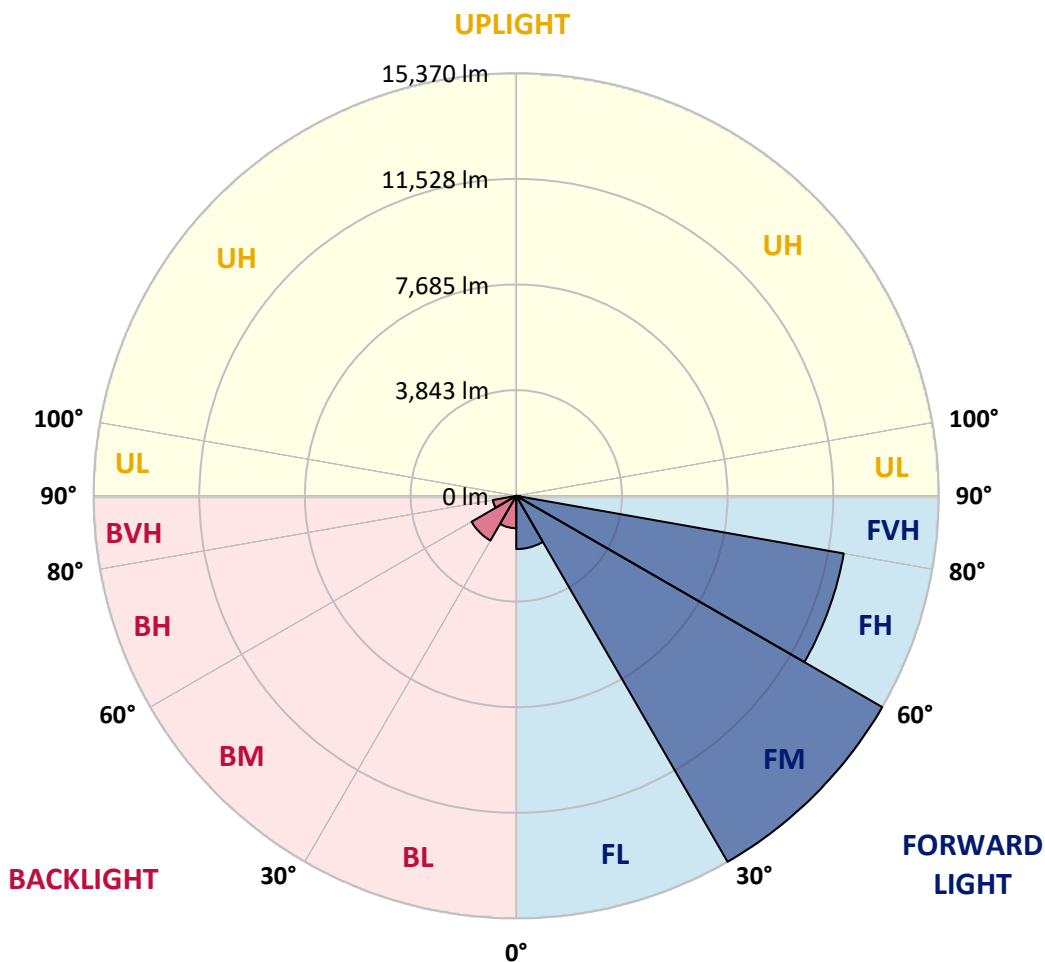


REPORT NUMBER: P575212  
 CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.7	5.8			
FM (30°-60°)	15370.4	45.9			
FH (60°-80°)	12094.8	36.1			G5
FVH (80°-90°)	128.6	0.4			G2/225
BL (0°-30°)	1178.1	3.5	B3/2500		
BM (30°-60°)	1879.3	5.6	B2/2500		
BH (60°-80°)	864.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





REPORT NUMBER: P575212  
 CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
2.5°	3563.9	3513.0	3559.3	3563.9	3568.5	3610.1	3656.3	3624.0	3619.3	3656.3
5°	3420.6	3397.5	3452.9	3480.7	3526.9	3563.9	3637.8	3642.5	3647.1	3688.7
7.5°	3360.5	3305.0	3369.7	3402.1	3434.4	3522.3	3610.1	3656.3	3721.0	3771.9
10°	3240.3	3281.9	3300.4	3355.9	3448.3	3550.0	3656.3	3679.4	3822.7	3864.3
12.5°	3281.9	3309.6	3346.6	3360.5	3462.2	3614.7	3758.0	3767.3	3915.2	4095.5
15°	3388.2	3369.7	3383.6	3402.1	3522.3	3647.1	3878.2	3919.8	4058.5	4261.9
17.5°	3614.7	3582.4	3559.3	3554.6	3582.4	3697.9	3970.6	4095.5	4224.9	4502.2
20°	4183.3	4155.5	4063.1	3822.7	3739.5	3785.8	4081.6	4257.2	4437.5	4747.2
22.5°	5047.7	5075.4	4858.2	4520.7	4174.0	3993.8	4257.2	4409.8	4696.4	5089.3
25°	6069.2	6013.8	5750.3	5357.4	4811.9	4386.7	4539.2	4710.2	5061.5	5385.1
27.5°	6868.9	6804.2	6600.8	6124.7	5653.2	4964.5	4909.0	5015.3	5431.3	5722.5
30°	7659.3	7682.4	7543.8	6979.8	6397.4	5671.7	5320.4	5366.6	5685.6	6060.0
32.5°	8667.0	8611.5	8533.0	8038.4	7349.6	6573.1	5972.2	5898.2	6036.9	6531.5
35°	9605.4	9573.0	9466.7	8967.5	8366.6	7520.7	6933.6	6767.2	6734.8	7284.9
37.5°	10423.5	10368.1	10206.3	9887.3	9304.9	8593.1	7950.5	7802.6	7798.0	8177.0
40°	11112.3	11153.9	11135.4	10784.1	10465.1	9896.6	8912.0	8676.3	8657.8	8861.2
42.5°	12004.4	12101.5	12050.6	11981.3	11597.6	11375.7	10261.7	9901.2	9739.4	10155.4
45°	13354.1	13391.1	13423.5	13252.4	12868.8	12915.0	11657.7	11227.8	11186.2	11805.6
47.5°	14616.1	14519.0	14745.5	14754.7	14736.2	14523.6	13164.6	12845.7	12901.1	13372.6
50°	14930.4	15180.0	15804.0	15919.6	16220.0	16414.2	14837.9	14519.0	14611.4	15147.6
52.5°	15175.4	15554.4	16178.4	17024.3	17833.3	18295.5	16710.0	16451.2	16446.5	16774.7
55°	15605.3	15836.4	16377.2	17542.0	19081.3	19839.4	18965.7	18549.7	18175.3	18406.4
57.5°	15563.6	15651.5	16492.8	17930.3	20070.5	21448.0	20819.3	20421.8	19941.1	19807.0
60°	14833.3	15041.3	15984.3	17666.8	20680.7	22700.6	22548.1	22141.3	21313.9	20999.6
62.5°	13386.5	13663.8	14403.4	16742.4	19793.2	22765.4	23740.7	23588.2	22663.7	22099.7
65°	10848.8	10978.2	11828.7	14394.2	17787.0	21771.5	25150.5	24961.0	24110.5	23269.2
67.5°	7026.1	7150.9	7969.0	10275.6	13968.9	19206.1	25095.1	25617.4	24697.5	23685.2
70°	3318.9	3286.5	4049.2	5708.7	8949.0	14666.9	23398.6	24429.4	23648.2	21471.1
72.5°	1012.3	1100.1	1682.6	2528.5	4594.7	9147.7	18341.7	19307.8	19062.8	17153.8
75°	448.4	485.4	661.0	1035.4	1862.8	3753.4	11329.5	12189.3	12083.0	10118.5
77.5°	286.6	314.3	416.0	591.7	845.9	1192.6	5218.7	6055.4	5870.5	3554.6
80°	203.4	217.3	295.8	406.8	531.6	490.0	1798.1	2135.6	2047.7	966.1
82.5°	110.9	120.2	217.3	300.5	355.9	249.6	503.8	628.6	656.4	429.9
85°	41.6	50.8	134.0	212.6	184.9	115.6	147.9	180.3	235.7	235.7
87.5°	0.0	4.6	55.5	92.4	46.2	32.4	41.6	50.8	64.7	110.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575212

CATALOG NUMBER: EPH-VN-06-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3670.2	0°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
3688.7	2.5°	3711.8	3679.4	3693.3	3716.4	3665.6	3693.3	3637.8	3679.4	3693.3	3637.8
3744.2	5°	3758.0	3790.4	3771.9	3734.9	3702.5	3711.8	3697.9	3665.6	3693.3	3702.5
3827.4	7.5°	3892.1	3855.1	3864.3	3822.7	3758.0	3753.4	3665.6	3642.5	3651.7	3660.9
3998.4	10°	4016.9	4040.0	3993.8	3961.4	3855.1	3785.8	3665.6	3536.1	3522.3	3466.8
4164.8	12.5°	4238.7	4183.3	4164.8	4058.5	3952.2	3721.0	3462.2	3263.4	3097.0	3036.9
4432.9	15°	4423.6	4414.4	4382.0	4220.3	3975.3	3554.6	3064.7	2602.4	2283.5	2084.7
4590.1	17.5°	4677.9	4636.3	4576.2	4322.0	3804.2	3120.1	2283.5	1701.0	1382.1	1257.3
4890.5	20°	4872.0	4839.7	4756.5	4298.8	3494.5	2325.1	1414.5	1081.6	1003.1	980.0
5218.7	22.5°	5154.0	5052.3	4895.1	4183.3	2930.6	1548.5	1016.9	966.1	952.2	933.7
5436.0	25°	5399.0	5306.5	4978.3	3984.5	2089.3	1026.2	943.0	915.2	892.1	869.0
5667.1	27.5°	5616.2	5500.7	5066.2	3577.7	1308.1	882.9	873.6	841.3	795.1	758.1
5935.2	30°	5828.9	5694.8	5089.3	2815.0	882.9	799.7	776.6	725.7	665.6	614.8
6383.5	32.5°	6184.8	6023.0	5056.9	2010.7	762.7	711.9	661.0	600.9	513.1	471.5
7026.1	35°	6739.5	6494.5	5015.3	1183.3	684.1	628.6	550.1	471.5	406.8	365.2
7677.8	37.5°	7377.4	6952.1	4895.1	790.4	628.6	554.7	453.0	374.4	318.9	286.6
8569.9	40°	8325.0	7622.4	4432.9	647.1	559.3	471.5	365.2	295.8	254.2	231.1
9892.0	42.5°	9369.6	8389.7	3721.0	582.4	494.6	402.1	291.2	240.4	208.0	184.9
11214.0	45°	10622.3	9189.3	2870.5	531.6	439.1	332.8	240.4	194.1	166.4	147.9
12762.5	47.5°	12018.3	9915.1	1936.8	480.7	369.8	272.7	198.8	147.9	120.2	106.3
14449.6	50°	13266.3	10557.6	1234.2	420.6	323.6	226.5	161.8	120.2	97.1	78.6
15813.3	52.5°	14398.8	11047.6	850.5	369.8	277.3	184.9	134.0	97.1	74.0	60.1
17227.7	55°	15559.0	11297.2	628.6	318.9	240.4	157.2	110.9	87.8	64.7	50.8
18854.8	57.5°	16511.2	11403.5	480.7	277.3	203.4	124.8	97.1	74.0	55.5	41.6
20102.9	60°	17324.8	11352.6	374.4	231.1	161.8	106.3	83.2	60.1	46.2	32.4
21729.9	62.5°	17800.9	11047.6	295.8	198.8	129.4	92.4	69.3	50.8	32.4	23.1
22566.6	65°	17810.1	10400.4	231.1	147.9	97.1	78.6	60.1	41.6	23.1	9.2
22044.3	67.5°	16534.4	8999.8	184.9	115.6	78.6	60.1	46.2	32.4	9.2	0.0
18309.4	70°	12933.5	6808.8	152.5	92.4	64.7	50.8	32.4	18.5	4.6	0.0
12221.6	72.5°	8241.8	4077.0	124.8	74.0	55.5	37.0	23.1	13.9	0.0	0.0
5579.2	75°	3448.3	1257.3	97.1	64.7	41.6	27.7	18.5	4.6	0.0	0.0
1460.7	77.5°	887.5	397.5	78.6	55.5	41.6	23.1	13.9	4.6	0.0	0.0
392.9	80°	263.5	147.9	64.7	46.2	32.4	18.5	9.2	4.6	0.0	0.0
189.5	82.5°	120.2	87.8	55.5	41.6	27.7	18.5	9.2	0.0	0.0	0.0
87.8	85°	46.2	27.7	27.7	23.1	23.1	13.9	4.6	0.0	0.0	0.0
32.4	87.5°	18.5	9.2	9.2	9.2	4.6	4.6	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



