

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: P575127

Luminaire Tested: **EPH-VN-07-730-U-T2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575127  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-730-U-T2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

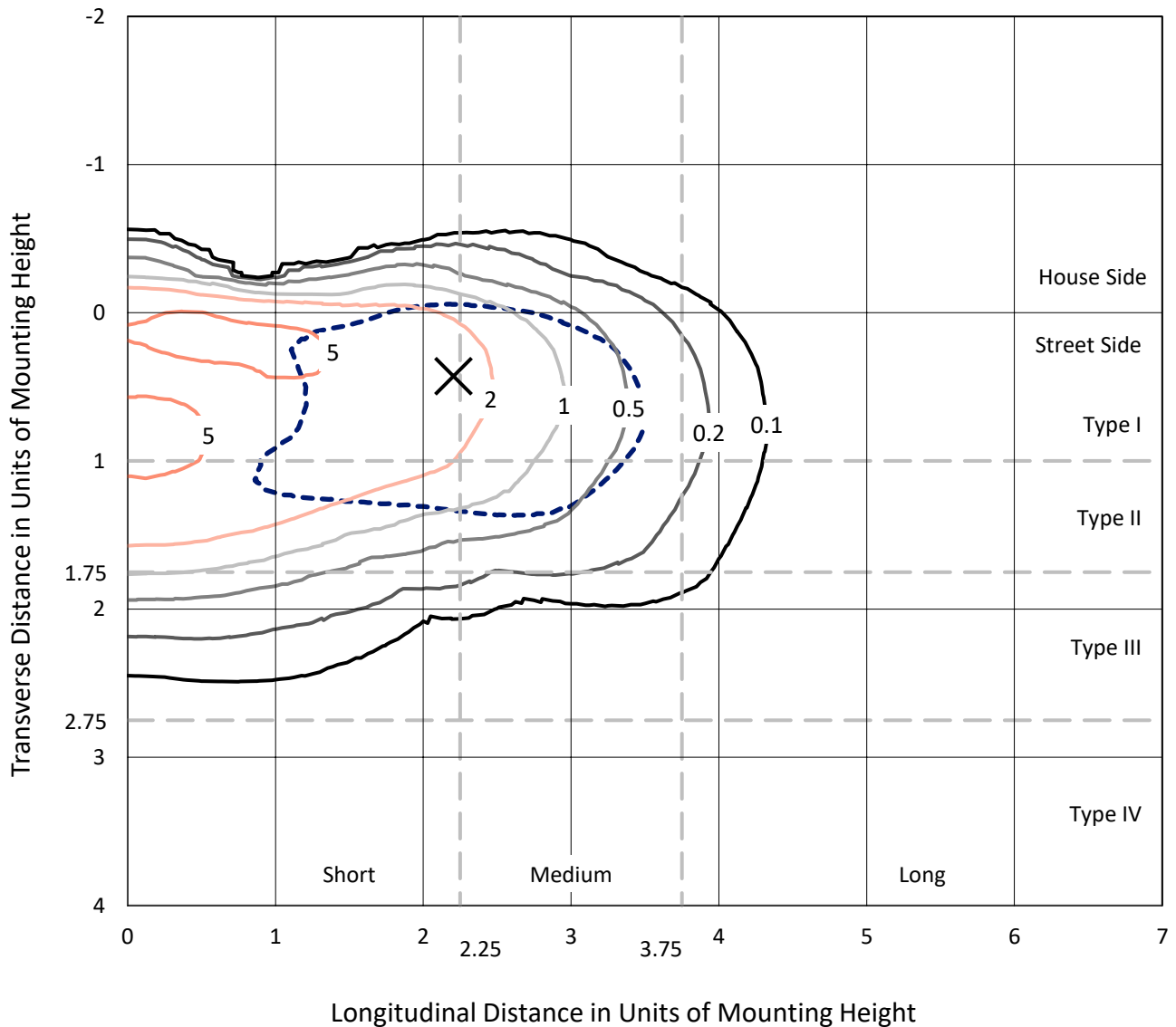
Lumens per Lamp: N/A  
Luminaire Lumens: 31987.7 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.5  
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: P575127  
 CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

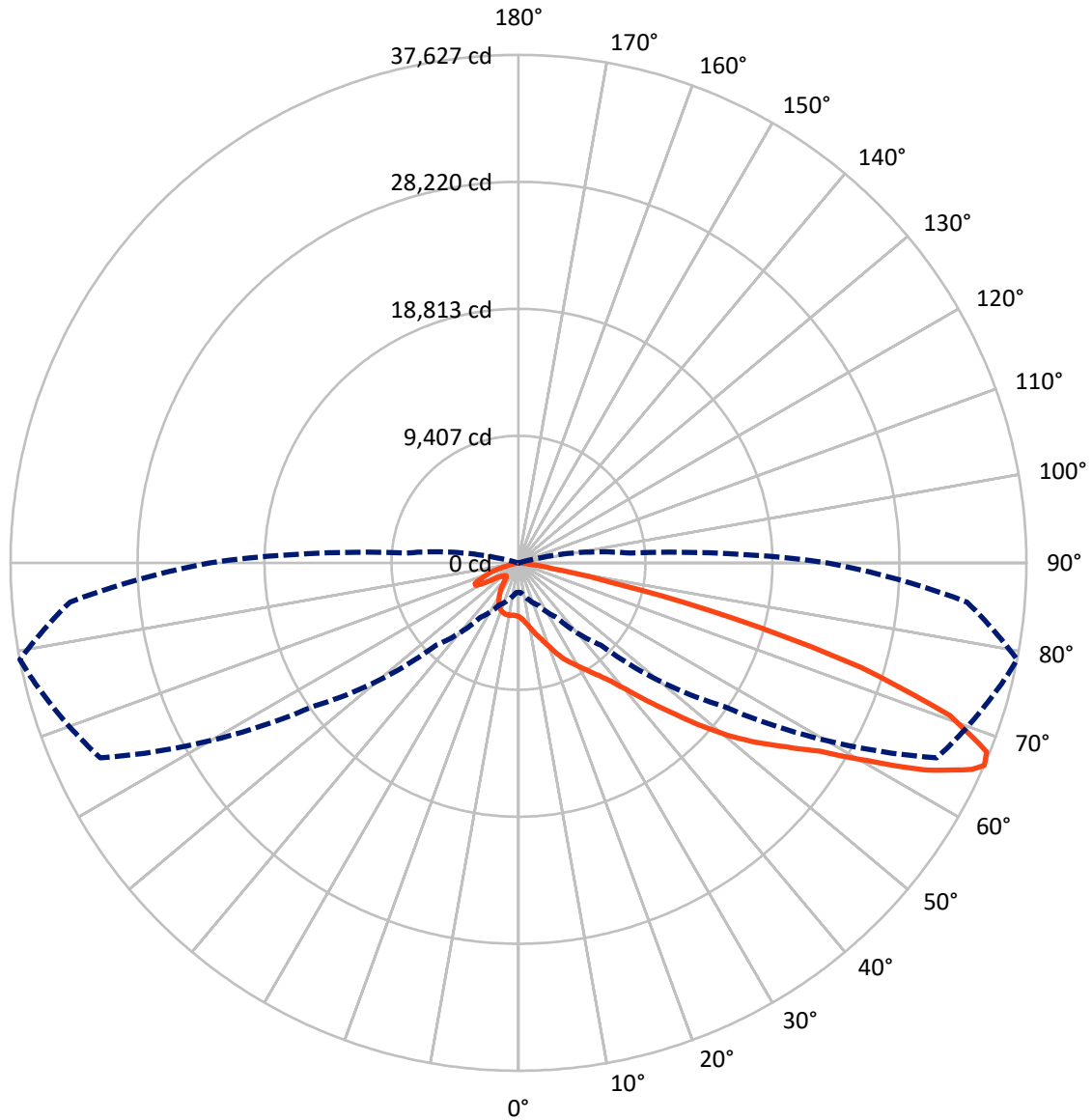
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P575127  
CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P575127  
 CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

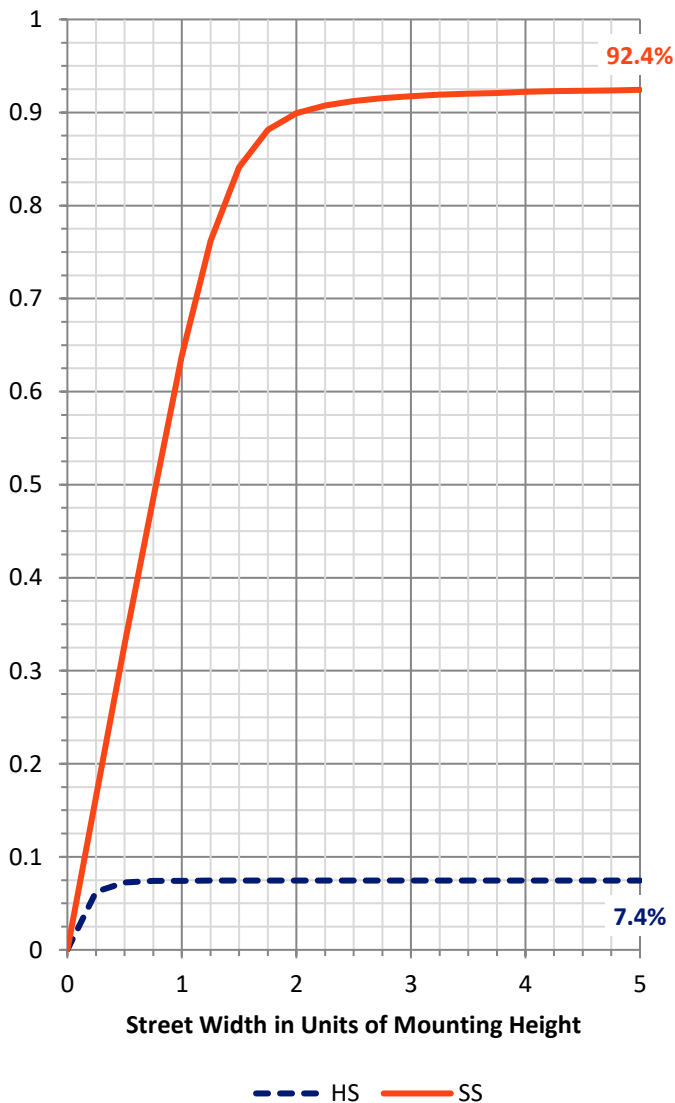
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2401.8	0.0	2401.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	29585.8	0.0	29585.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	31987.7	0.0	31987.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.4	1.2
10°-20°	1035.8	3.2
20°-30°	1720.7	5.4
30°-40°	2955.6	9.2
40°-50°	5354.4	16.7
50°-60°	8463.8	26.5
60°-70°	8612.5	26.9
70°-80°	3284.4	10.3
80°-90°	184.1	0.6
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°	31987.7	100.0
0°-180°	31987.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P575127

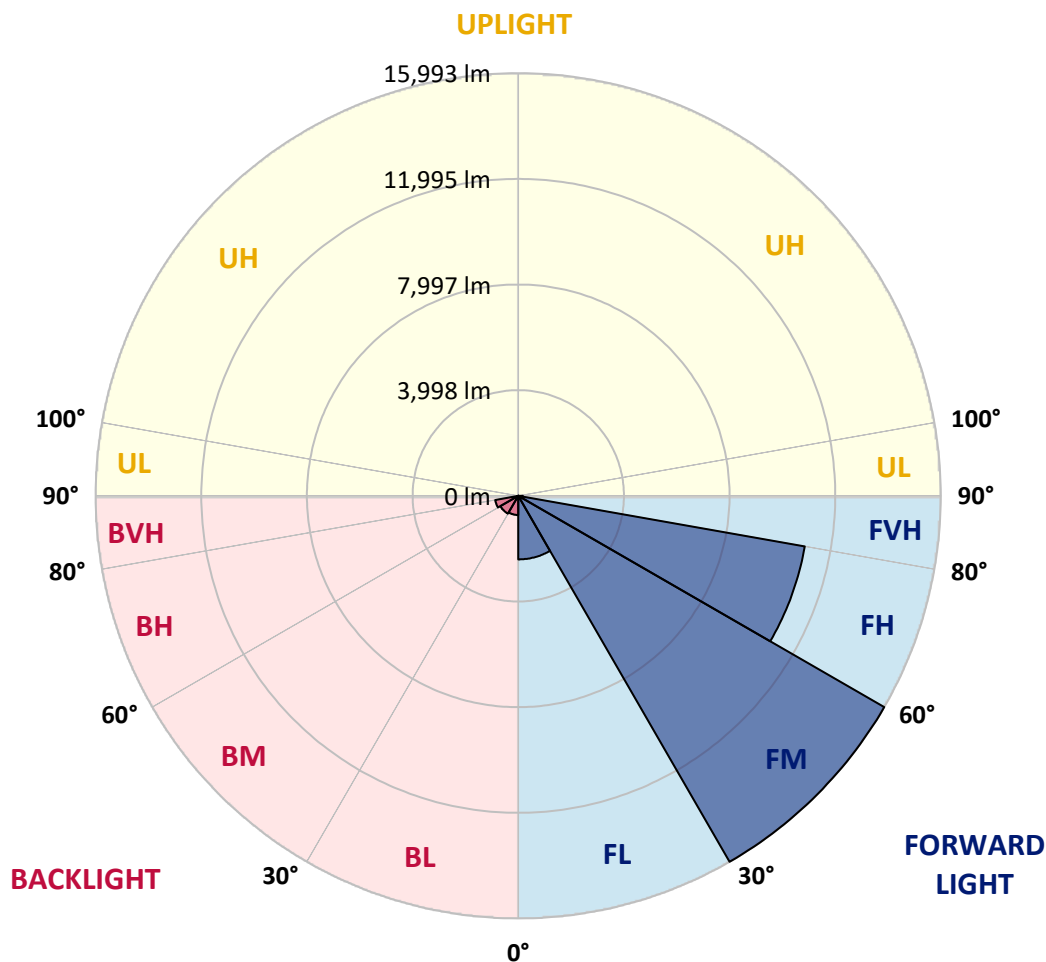
CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.5	7.5			
FM (30°-60°)	15993.1	50.0			
FH (60°-80°)	11011.5	34.4			G4/12000
FVH (80°-90°)	174.7	0.5			G2/225
BL (0°-30°)	726.4	2.3	B2/1000		
BM (30°-60°)	780.6	2.4	B1/1000		
BH (60°-80°)	885.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





REPORT NUMBER: P575127  
 CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	4507.3	4502.4	4482.7	4448.1	4403.8	4389.0	4324.8	4236.1	4186.8	4132.5
5°	4818.0	4793.3	4852.5	4827.9	4837.7	4719.4	4640.5	4576.4	4389.0	4315.0
7.5°	4887.0	4911.7	4906.8	4946.2	4985.7	5030.0	4975.8	4882.1	4694.7	4586.2
10°	4887.0	4877.2	4916.6	4970.9	5084.3	5182.9	5330.9	5207.6	5064.6	4936.3
12.5°	4798.3	4783.5	4822.9	4936.3	5138.5	5340.7	5503.5	5621.8	5419.6	5316.1
15°	4527.0	4512.2	4675.0	4877.2	5143.5	5473.9	5814.1	6006.5	5868.4	5705.6
17.5°	4191.7	4211.4	4384.0	4719.4	5143.5	5538.0	5971.9	6391.1	6371.4	6164.3
20°	4078.3	4093.1	4265.7	4507.3	4990.6	5582.4	6218.5	6810.3	6928.6	6682.1
22.5°	4295.3	4280.5	4295.3	4443.2	4887.0	5542.9	6381.2	7288.6	7500.7	7308.4
25°	5035.0	5025.1	4901.8	4675.0	4827.9	5454.1	6465.1	7604.2	8092.4	7914.9
27.5°	6119.9	6080.4	5888.1	5414.7	5104.0	5508.4	6603.2	7910.0	8610.2	8408.1
30°	7283.7	7190.0	6938.5	6346.7	5819.1	5710.6	6682.1	8136.8	9187.2	8930.8
32.5°	8087.5	8210.8	8131.9	7530.3	6721.5	6179.1	6810.3	8422.9	9719.8	9552.1
35°	9330.2	9473.2	9142.8	8610.2	7796.6	6923.7	7081.5	8654.6	10538.4	10257.3
37.5°	10898.4	11006.9	10770.2	9759.3	8901.2	7840.9	7638.8	9137.9	11243.6	11110.5
40°	11687.4	12210.2	11874.8	10962.5	10040.4	9123.1	8560.9	9705.0	12471.5	12363.0
42.5°	12777.3	13038.7	12866.1	12190.5	11228.8	10494.0	9700.1	10809.7	13960.8	13960.8
45°	13931.2	13941.1	13931.2	13378.9	12525.8	12146.1	11238.7	12195.4	15563.5	15741.1
47.5°	14878.1	15174.0	15149.3	14818.9	14158.1	14015.1	12777.3	13773.4	17575.6	17886.2
50°	15366.3	15696.7	15795.3	15967.9	15938.3	16239.1	14458.9	15603.0	19311.4	20075.8
52.5°	15233.1	15257.8	15864.4	16544.9	17629.8	18473.1	16485.7	17679.1	21343.2	22097.7
55°	14143.3	14049.6	15297.2	16076.4	18320.2	19839.1	19291.7	20268.1	22926.1	24075.2
57.5°	11751.6	11776.2	12930.2	14513.1	17807.3	20381.5	22290.0	23651.1	25145.3	26304.2
60°	8112.2	8082.6	9374.6	11204.2	14794.2	19370.6	24016.0	28035.1	28114.0	29756.1
62.5°	4561.6	4571.4	5552.8	7116.0	10351.0	15829.8	23932.1	32690.3	32355.0	33795.0
65°	2584.1	2648.2	3323.8	4216.4	6198.8	10627.2	20583.7	34544.5	35624.5	36906.7
66°	2184.6	2229.0	2806.0	3481.6	4946.2	8620.1	18527.3	34184.5	36650.3	37626.7
67.5°	1691.5	1750.7	2233.9	2761.6	3629.5	5967.0	14912.6	32394.4	36837.6	37409.7
70°	1158.9	1198.3	1568.2	2095.9	2480.5	3052.5	8916.0	26782.5	33425.1	33908.4
72.5°	813.7	833.4	1099.7	1587.9	1908.5	1745.7	4423.5	19055.0	25579.2	26521.1
75°	586.8	606.6	754.5	1139.2	1489.3	1144.1	2026.8	12170.7	15686.8	16426.5
77.5°	424.1	448.8	512.9	734.8	1080.0	803.8	996.1	6356.6	7397.1	7268.9
80°	256.4	281.1	379.7	473.4	789.0	567.1	547.4	2653.1	2623.5	2490.4
82.5°	118.4	138.1	202.2	320.5	552.3	394.5	261.4	946.8	828.5	759.4
85°	34.5	44.4	118.4	241.6	281.1	192.3	157.8	325.5	340.3	291.0
87.5°	0.0	4.9	54.2	59.2	83.8	64.1	59.2	83.8	157.8	128.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575127

CATALOG NUMBER: EPH-VN-07-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3979.6	0°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
4107.9	2.5°	4019.1	3984.6	3900.7	3772.5	3659.1	3599.9	3516.1	3442.1	3402.7	3397.7
4196.6	5°	4117.7	4024.0	3821.8	3590.1	3417.5	3230.1	3101.9	3008.2	2919.4	2835.6
4458.0	7.5°	4250.9	4102.9	3772.5	3471.7	3096.9	2855.3	2628.4	2495.3	2416.4	2342.4
4704.6	10°	4458.0	4270.6	3738.0	3195.6	2766.5	2411.5	2179.7	1987.4	1878.9	1750.7
5015.2	12.5°	4739.1	4403.8	3609.8	2944.1	2391.7	2016.9	1686.5	1375.9	1203.3	1070.1
5370.3	15°	5020.2	4581.3	3491.4	2638.3	2051.5	1558.3	1075.0	863.0	813.7	784.1
5814.1	17.5°	5296.3	4724.3	3309.0	2327.6	1661.9	991.2	784.1	739.7	715.1	685.5
6223.4	20°	5631.7	4818.0	3082.1	2041.6	1144.1	734.8	670.7	641.1	601.6	562.2
6761.0	22.5°	5957.1	4896.9	2820.8	1676.7	769.3	636.2	562.2	522.7	488.2	448.8
7194.9	25°	6282.6	4921.5	2480.5	1203.3	621.4	507.9	438.9	384.7	350.1	315.6
7584.5	27.5°	6504.5	4768.7	2160.0	769.3	498.1	384.7	305.7	261.4	231.8	197.3
7924.8	30°	6632.7	4487.6	1814.8	542.5	374.8	261.4	182.5	138.1	108.5	83.8
8506.7	32.5°	6761.0	4260.7	1425.2	414.2	246.6	138.1	69.0	24.7	0.0	0.0
9049.1	35°	7017.4	4004.3	956.7	231.8	83.8	4.9	0.0	0.0	0.0	0.0
9744.5	37.5°	7180.1	3649.2	438.9	34.5	0.0	0.0	0.0	0.0	0.0	0.0
10706.1	40°	7589.4	3471.7	108.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12008.0	42.5°	8255.2	3348.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13566.3	45°	8985.0	3299.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15085.2	47.5°	9956.5	3432.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17038.0	50°	10982.3	3792.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18547.0	52.5°	12106.6	4132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20105.4	55°	13088.0	4541.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22294.9	57.5°	14892.9	5508.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26225.2	60°	18132.8	7407.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30693.1	62.5°	21782.0	8817.4	54.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33405.4	65°	23118.5	8782.8	93.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
33351.1	66°	22881.8	8299.6	93.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
32409.2	67.5°	21653.8	7372.5	83.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0
28168.2	70°	18596.4	6090.3	83.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0
21910.3	72.5°	14177.8	4744.0	78.9	19.7	4.9	0.0	0.0	0.0	0.0	0.0
13196.5	75°	8556.0	2524.9	64.1	24.7	9.9	0.0	0.0	0.0	0.0	0.0
5676.1	77.5°	3407.6	887.7	49.3	19.7	9.9	0.0	0.0	0.0	0.0	0.0
1785.2	80°	922.2	266.3	29.6	19.7	14.8	4.9	0.0	0.0	0.0	0.0
503.0	82.5°	241.6	98.6	24.7	19.7	9.9	4.9	0.0	0.0	0.0	0.0
167.7	85°	93.7	39.5	19.7	14.8	14.8	9.9	4.9	0.0	0.0	0.0
54.2	87.5°	29.6	14.8	14.8	9.9	9.9	4.9	4.9	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



