

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: P575262

Luminaire Tested: **EPH-VN-04-750-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575262
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

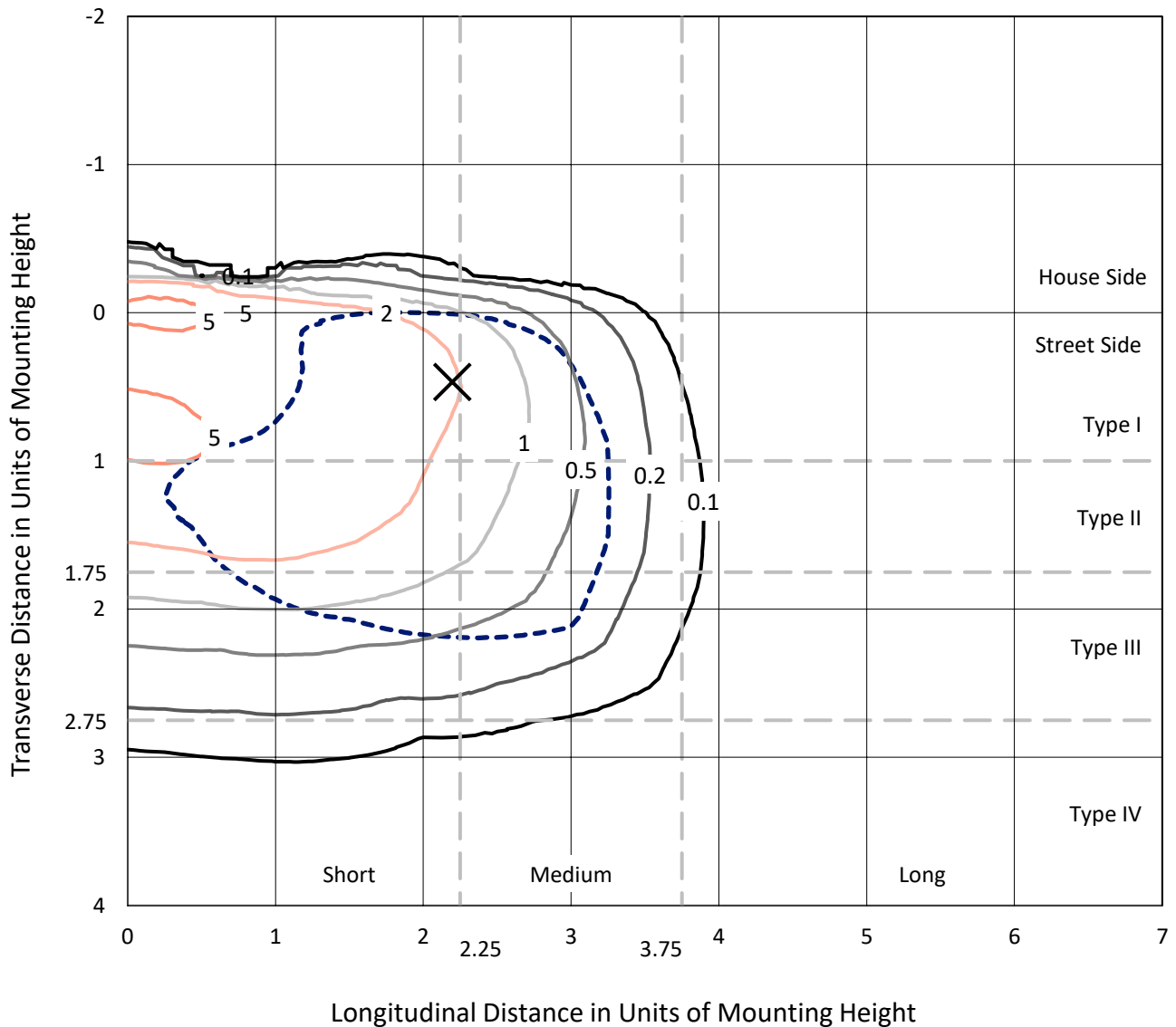
Lumens per Lamp: N/A
Luminaire Lumens: 22159.5 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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: P575262
 CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

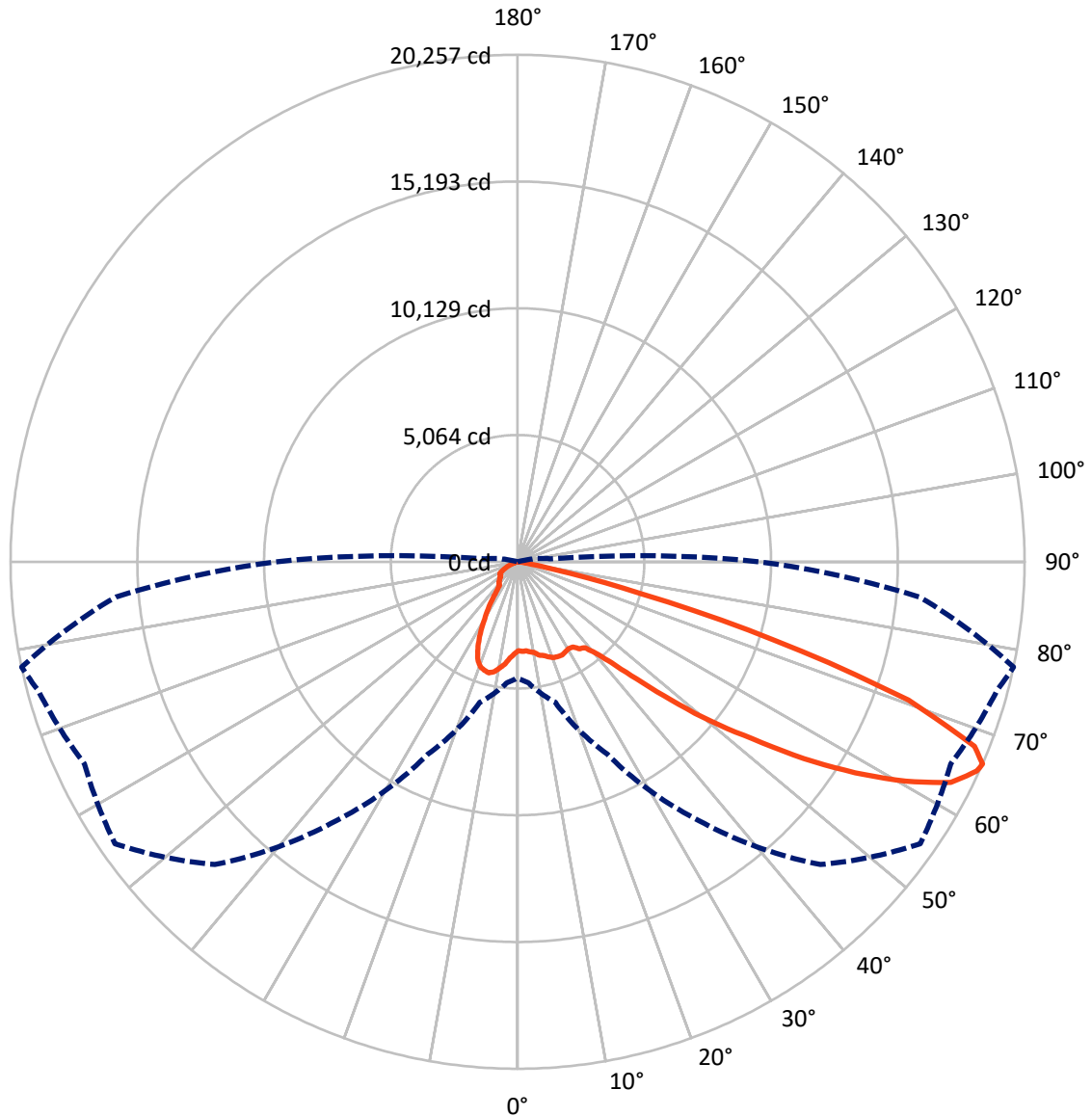
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P575262
CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P575262
 CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

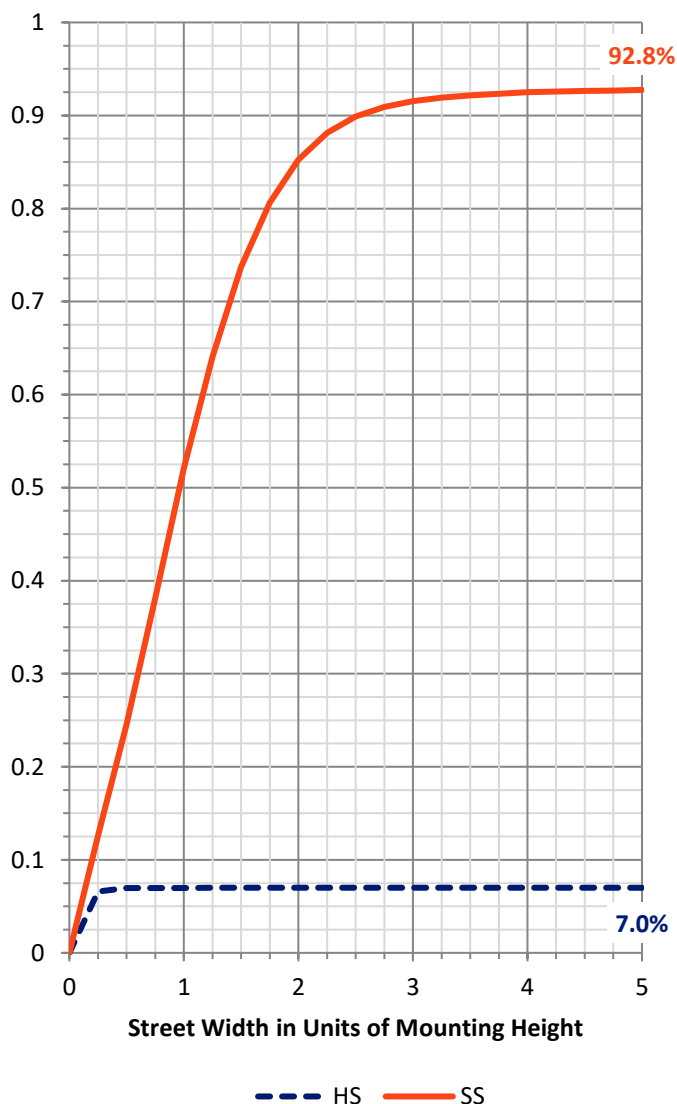
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.9	0.0	1557.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	20601.6	0.0	20601.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	22159.5	0.0	22159.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.5
10°-20°	733.0	3.3
20°-30°	1047.6	4.7
30°-40°	1793.3	8.1
40°-50°	3236.7	14.6
50°-60°	5535.2	25.0
60°-70°	6812.8	30.7
70°-80°	2575.6	11.6
80°-90°	100.6	0.5
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°	22159.5	100.0
0°-180°	22159.5	100.0

Coefficient of Utilization



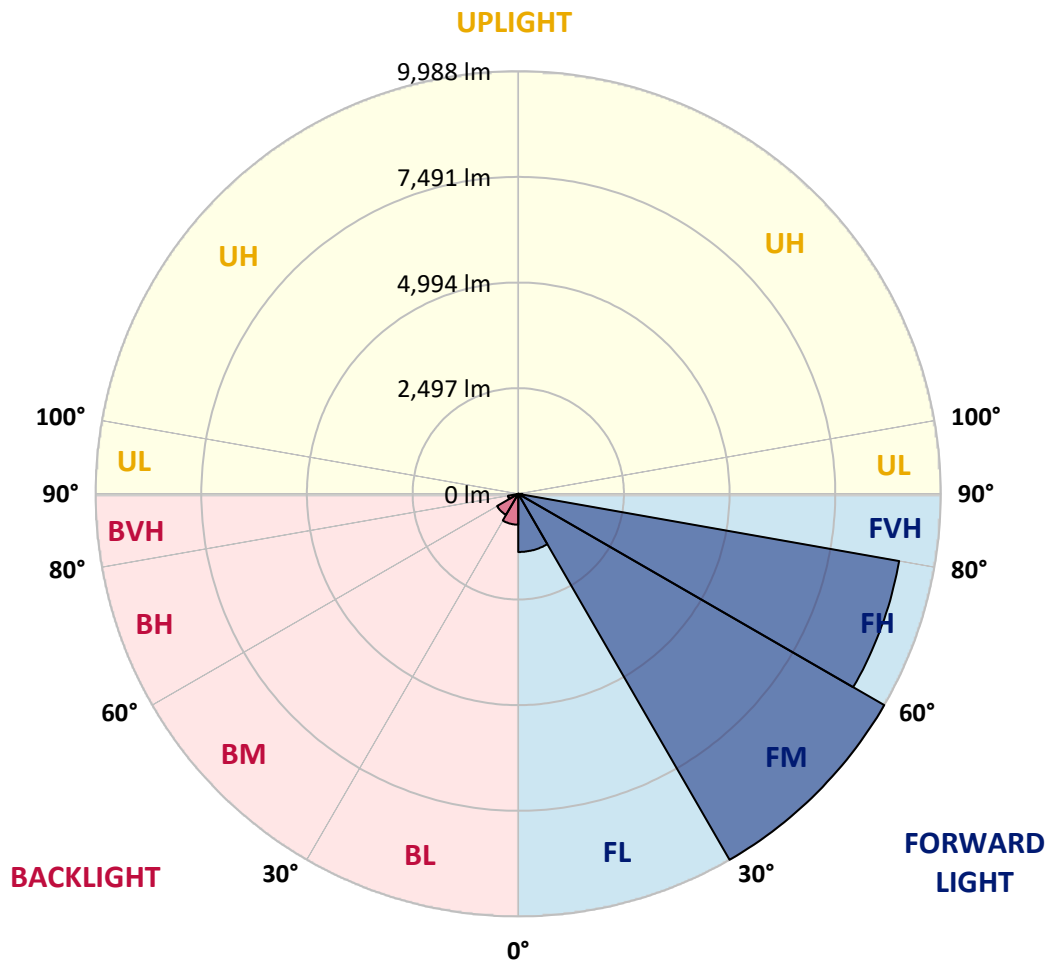
REPORT NUMBER: P575262
 CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.7	6.2			
FM (30°-60°)	9987.7	45.1			
FH (60°-80°)	9141.6	41.3			G4/12000
FVH (80°-90°)	96.6	0.4			G1/100
BL (0°-30°)	729.6	3.3	B2/1000		
BM (30°-60°)	577.4	2.6	B1/1000		
BH (60°-80°)	246.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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 III Short





REPORT NUMBER: P575262
 CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2
2.5°	3264.6	3234.5	3264.6	3308.2	3331.6	3351.7	3422.0	3482.3	3545.9	3589.4
5°	3026.9	3083.8	3090.5	3103.9	3140.7	3261.3	3301.5	3405.3	3562.6	3576.0
7.5°	2839.4	2822.6	2866.2	2953.2	3047.0	3117.3	3234.5	3415.3	3579.4	3636.3
10°	2568.2	2601.7	2648.5	2735.6	2849.4	3023.5	3231.1	3432.0	3666.4	3686.5
12.5°	2420.8	2387.4	2461.0	2551.4	2745.6	2906.4	3160.8	3401.9	3720.0	3830.5
15°	2300.3	2317.0	2387.4	2447.6	2608.4	2812.6	3110.6	3475.6	3810.4	3887.4
17.5°	2250.1	2240.0	2293.6	2353.9	2551.4	2782.5	3090.5	3478.9	3890.8	3991.2
20°	2273.5	2293.6	2276.9	2333.8	2457.7	2692.1	3120.6	3542.5	3951.0	4088.3
22.5°	2641.8	2615.1	2481.1	2374.0	2380.7	2655.2	3097.2	3582.7	4004.6	4115.1
25°	3602.8	3458.8	3127.3	2715.5	2444.3	2554.8	3070.4	3569.3	3994.6	4131.8
27.5°	4570.5	4446.6	4121.8	3482.3	2702.1	2514.6	2976.7	3579.4	3944.3	4071.6
30°	5591.7	5658.7	5176.5	4416.5	3378.5	2735.6	2916.4	3525.8	3910.9	4018.0
32.5°	6639.8	6613.0	6321.7	5498.0	4346.1	3224.4	3013.5	3579.4	3954.4	4058.2
35°	7460.1	7366.3	7071.7	6328.4	5146.4	3961.1	3348.3	3833.8	4145.2	4269.1
37.5°	7865.2	7905.4	7734.7	7088.4	6023.7	4644.1	3766.9	3833.8	4205.5	4349.5
40°	8180.0	8300.5	8236.9	8029.3	6894.2	5414.3	4228.9	4071.6	4510.2	4781.4
42.5°	8558.3	8501.4	8876.4	8685.6	8032.7	6385.3	5039.2	4637.4	5230.1	5491.3
45°	8759.2	8976.9	9261.5	9505.9	9087.4	7597.4	6097.3	5638.6	6331.7	6663.2
47.5°	9274.9	9361.9	9824.0	10132.1	9944.6	8983.6	7704.5	7101.8	7717.9	8240.3
50°	9576.2	9459.1	10105.3	10574.0	10681.2	10132.1	9144.3	8675.5	9365.3	10031.6
52.5°	9311.7	9646.6	10292.8	11133.2	11431.2	11156.7	10835.2	10631.0	11116.5	11732.6
55°	8384.2	8611.9	10185.6	11746.0	12706.9	12579.7	12877.7	12743.8	13232.6	13885.6
57.5°	7637.6	7922.2	9305.0	12064.1	13895.6	14270.6	14645.6	14561.9	15151.2	15904.6
60°	7172.1	7336.2	8668.8	11983.7	14598.7	16018.4	16865.6	16276.3	17237.2	17813.2
62.5°	6365.2	6469.0	7741.4	10918.9	14809.7	17254.0	18690.4	17890.2	18723.9	19427.0
65°	5102.9	5384.1	6435.5	9325.1	13416.8	17481.7	19828.8	18888.0	19694.9	20157.0
66°	4644.1	4848.4	5812.7	8481.3	12623.2	17103.3	19638.0	19095.6	19835.5	20257.4
67.5°	3853.9	4031.4	4798.2	7279.3	10999.3	16269.6	19771.9	18954.9	19942.7	19684.9
70°	2551.4	2665.3	3281.4	4922.1	7661.0	13309.6	18338.8	17856.7	17531.9	16564.2
72.5°	1192.0	1356.1	2049.2	2983.4	4493.5	9311.7	14953.7	14307.4	12295.1	10748.2
75°	539.1	612.7	1125.0	1711.0	2015.7	4825.0	9646.6	8712.4	6120.8	5082.8
77.5°	291.3	331.5	549.1	813.6	733.3	1690.9	4774.7	3971.1	1928.6	1413.0
80°	224.3	264.5	458.7	465.4	271.2	438.6	1774.6	1228.8	482.2	365.0
82.5°	117.2	167.4	361.6	301.4	137.3	177.5	549.1	341.5	150.7	120.5
85°	46.9	73.7	204.2	200.9	80.4	60.3	154.0	103.8	60.3	50.2
87.5°	3.3	3.3	110.5	77.0	50.2	16.7	23.4	23.4	30.1	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575262

CATALOG NUMBER: EPH-VN-04-750-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3549.2	0°	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2	3549.2
3576.0	2.5°	3636.3	3676.5	3683.2	3793.7	3817.1	3793.7	3853.9	3843.9	3870.7	3850.6
3636.3	5°	3720.0	3776.9	3887.4	3971.1	3971.1	3904.2	3850.6	3780.3	3676.5	3649.7
3753.5	7.5°	3864.0	4044.8	4145.2	4091.7	3984.5	3733.4	3385.2	3130.7	2916.4	2836.0
3904.2	10°	4118.5	4218.9	4336.1	4118.5	3673.1	3140.7	2554.8	2169.7	1868.4	1801.4
4081.6	12.5°	4282.5	4443.2	4510.2	3971.1	3097.2	2303.7	1667.5	1232.2	1021.2	860.5
4269.1	15°	4496.8	4681.0	4543.7	3572.7	2440.9	1510.1	863.9	539.1	438.6	411.8
4396.4	17.5°	4644.1	4845.0	4406.4	3077.1	1731.1	803.6	428.6	371.7	365.0	368.3
4533.6	20°	4902.0	5022.5	4198.8	2501.2	1034.6	411.8	344.9	331.5	324.8	334.8
4627.4	22.5°	4999.1	5109.6	3860.6	1811.5	465.4	274.6	257.8	247.8	254.5	251.1
4684.3	25°	4992.4	5049.3	3304.8	1038.0	137.3	107.1	97.1	97.1	90.4	93.8
4590.6	27.5°	5042.6	4902.0	2682.0	308.0	0.0	0.0	0.0	0.0	0.0	0.0
4610.7	30°	5069.4	4664.2	1908.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4727.9	32.5°	5082.8	4540.3	1228.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4895.3	35°	5186.6	4292.6	525.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5166.5	37.5°	5256.9	3974.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5675.4	40°	5548.2	3874.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6438.9	42.5°	5926.6	3686.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7573.9	45°	6452.2	3408.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8873.1	47.5°	7148.7	3244.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10088.5	50°	7667.7	2986.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11458.0	52.5°	8327.3	2832.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13058.5	55°	9110.8	2839.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14414.6	57.5°	9824.0	2792.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15476.0	60°	10189.0	2387.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16239.4	62.5°	10112.0	1932.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16470.5	65°	9844.1	1516.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16115.5	66°	9660.0	1342.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15640.1	67.5°	9100.8	1074.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12228.1	70°	7242.5	736.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7714.6	72.5°	4607.3	452.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3378.5	75°	2122.8	207.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
981.1	77.5°	666.3	127.2	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.4	80°	174.1	80.4	26.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
100.5	82.5°	90.4	56.9	23.4	10.0	6.7	0.0	0.0	0.0	0.0	0.0
46.9	85°	56.9	23.4	10.0	6.7	6.7	0.0	0.0	0.0	0.0	0.0
33.5	87.5°	50.2	13.4	6.7	6.7	3.3	0.0	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

