

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: P575134

Luminaire Tested: **EPH-VN-08-735-U-T2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-T2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

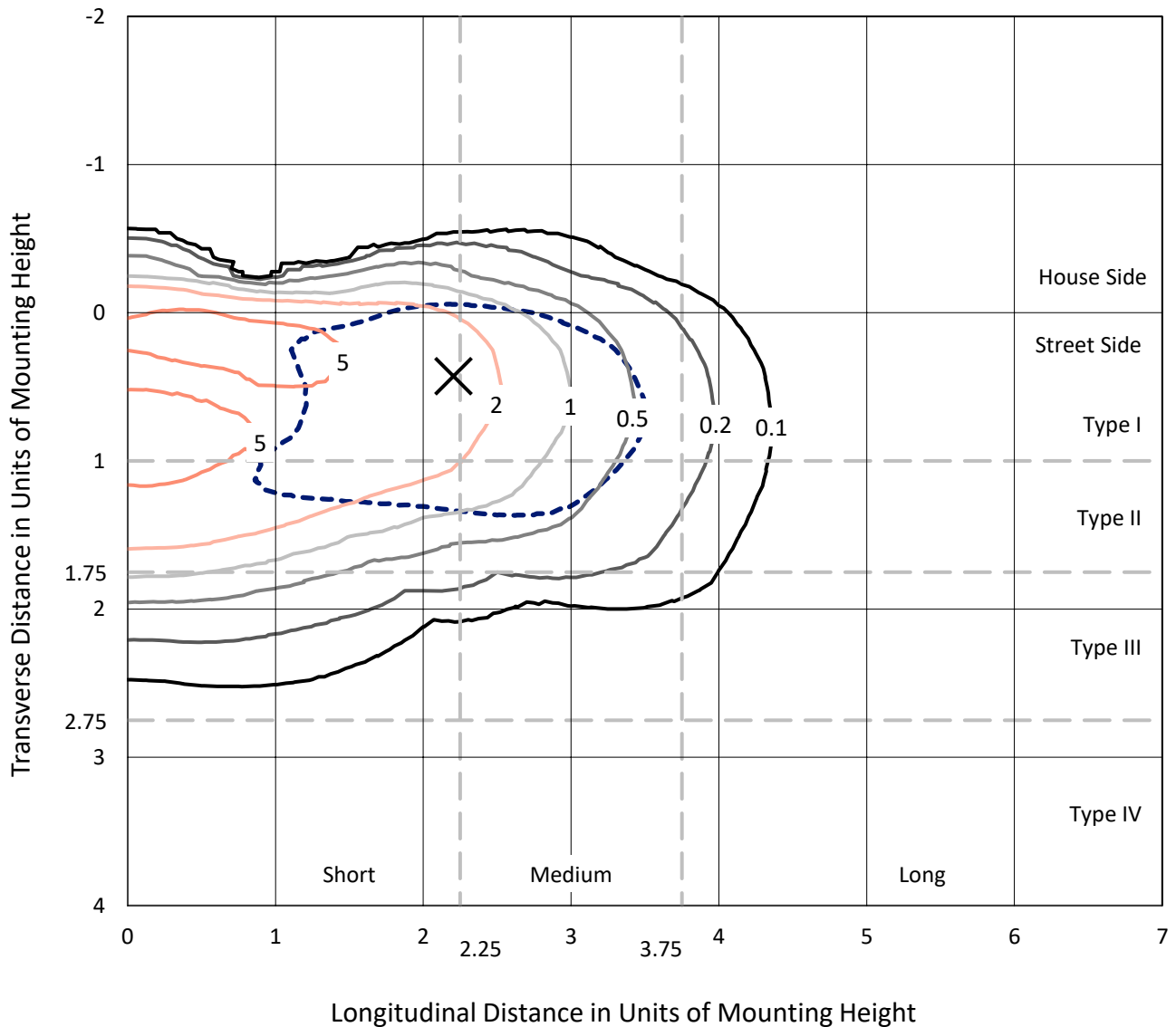
Lumens per Lamp: N/A  
Luminaire Lumens: 34214.9 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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: 24 FT

REPORT NUMBER: P575134  
 CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

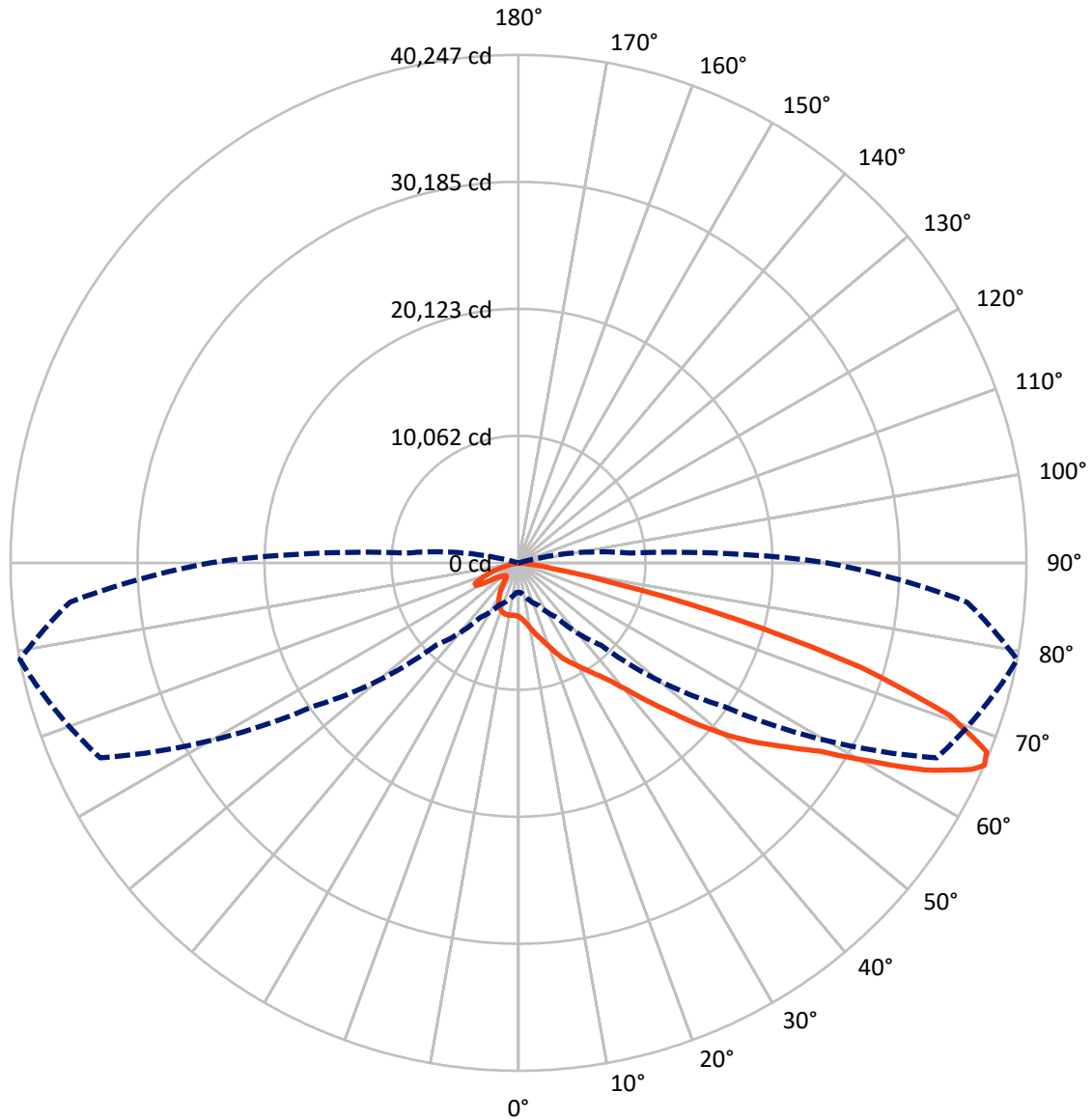
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P575134  
CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P575134  
 CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

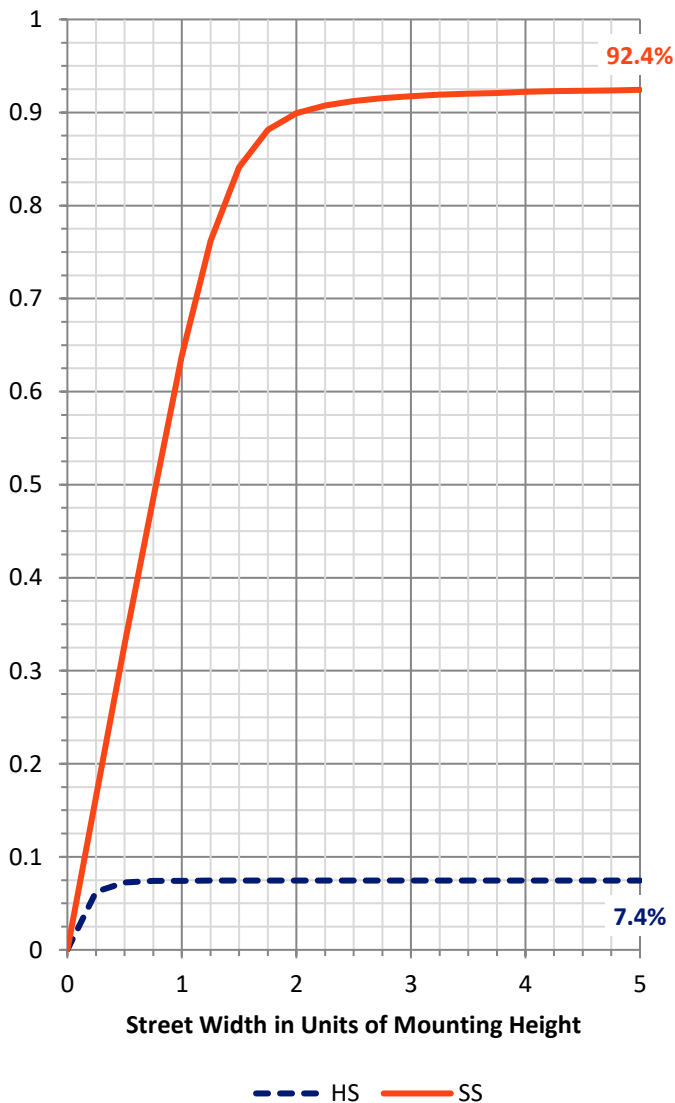
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2569.1	0.0	2569.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	31645.8	0.0	31645.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	34214.9	0.0	34214.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.6	1.2
10°-20°	1107.9	3.2
20°-30°	1840.6	5.4
30°-40°	3161.4	9.2
40°-50°	5727.2	16.7
50°-60°	9053.1	26.5
60°-70°	9212.2	26.9
70°-80°	3513.1	10.3
80°-90°	197.0	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°	34214.9	100.0
0°-180°	34214.9	100.0

**Coefficient of Utilization**

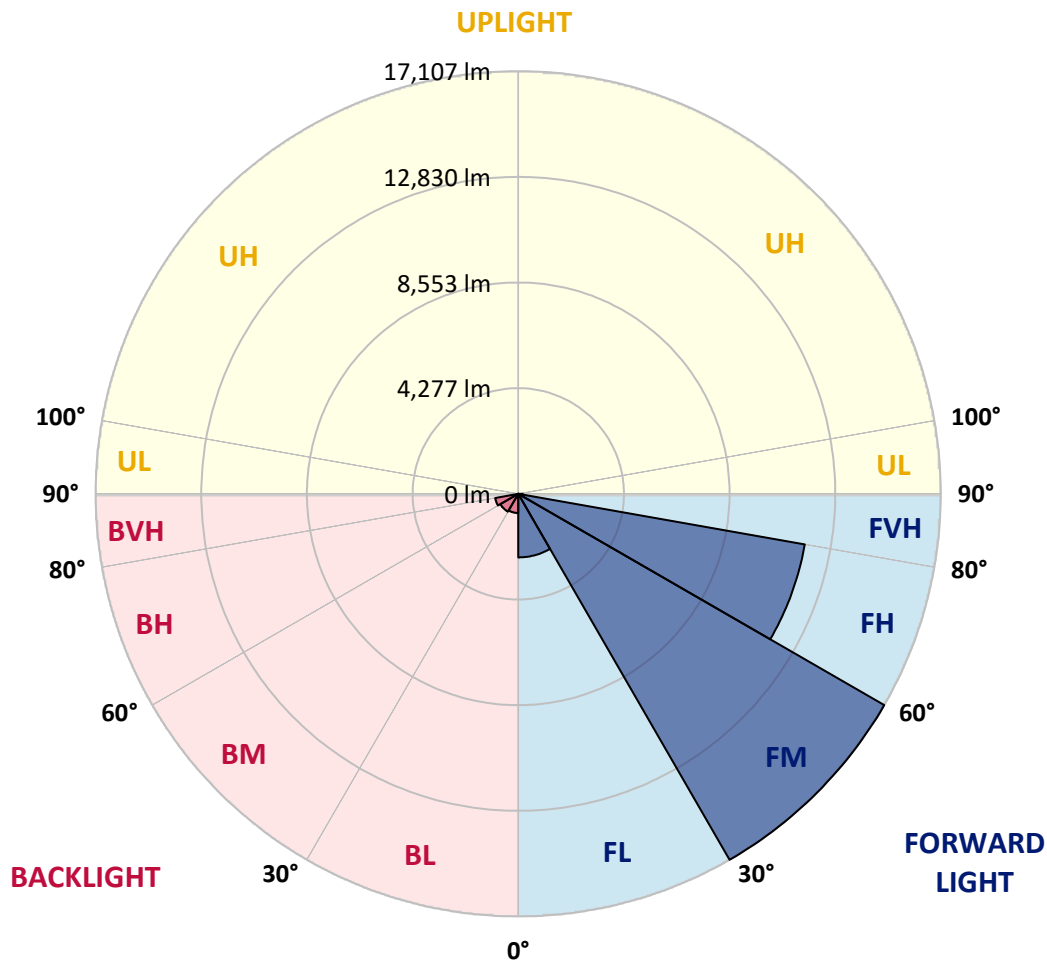


REPORT NUMBER: P575134  
 CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2574.1	7.5			
FM (30°-60°)	17106.7	50.0			
FH (60°-80°)	11778.2	34.4			G4/12000
FVH (80°-90°)	186.9	0.5			G2/225
BL (0°-30°)	776.9	2.3	B2/1000		
BM (30°-60°)	835.0	2.4	B1/1000		
BH (60°-80°)	947.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
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: P575134  
 CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7
2.5°	4821.1	4815.9	4794.8	4757.9	4710.4	4694.6	4626.0	4531.0	4478.3	4420.3
5°	5153.5	5127.1	5190.4	5164.0	5174.6	5048.0	4963.6	4895.0	4694.6	4615.4
7.5°	5227.3	5253.7	5248.4	5290.6	5332.8	5380.3	5322.3	5222.0	5021.6	4905.5
10°	5227.3	5216.8	5259.0	5317.0	5438.3	5543.8	5702.0	5570.2	5417.2	5280.1
12.5°	5132.4	5116.5	5158.7	5280.1	5496.3	5712.6	5886.7	6013.2	5797.0	5686.2
15°	4842.2	4826.4	5000.5	5216.8	5501.6	5855.0	6219.0	6424.7	6277.0	6102.9
17.5°	4483.6	4504.7	4689.3	5048.0	5501.6	5923.6	6387.8	6836.1	6815.0	6593.5
20°	4362.2	4378.1	4562.7	4821.1	5338.1	5971.0	6651.5	7284.5	7411.1	7147.3
22.5°	4594.3	4578.5	4594.3	4752.6	5227.3	5928.9	6825.6	7796.1	8022.9	7817.2
25°	5385.5	5375.0	5243.1	5000.5	5164.0	5833.9	6915.2	8133.7	8655.9	8466.0
27.5°	6546.0	6503.8	6298.1	5791.7	5459.4	5891.9	7062.9	8460.7	9209.8	8993.5
30°	7790.8	7690.6	7421.6	6788.6	6224.2	6108.2	7147.3	8703.4	9826.9	9552.6
32.5°	8650.6	8782.5	8698.1	8054.6	7189.5	6609.3	7284.5	9009.3	10396.6	10217.2
35°	9979.9	10132.8	9779.4	9209.8	8339.4	7405.8	7574.6	9257.2	11272.2	10971.5
37.5°	11657.3	11773.3	11520.1	10438.8	9521.0	8386.9	8170.6	9774.2	12026.5	11884.1
40°	12501.2	13060.4	12701.7	11725.8	10739.4	9758.3	9157.0	10380.8	13339.9	13223.9
42.5°	13667.0	13946.5	13761.9	13039.3	12010.7	11224.7	10375.5	11562.3	14932.9	14932.9
45°	14901.2	14911.8	14901.2	14310.5	13397.9	12991.8	12021.2	13044.5	16647.2	16837.1
47.5°	15914.0	16230.5	16204.1	15850.7	15143.9	14990.9	13667.0	14732.5	18799.3	19131.6
50°	16436.2	16789.6	16895.1	17079.7	17048.1	17369.8	15465.7	16689.4	20656.0	21473.6
52.5°	16293.8	16320.2	16969.0	17696.9	18857.3	19759.3	17633.6	18910.1	22829.2	23636.3
55°	15128.1	15027.8	16362.4	17195.8	19595.8	21220.4	20634.9	21679.3	24522.4	25751.5
57.5°	12569.8	12596.2	13830.5	15523.7	19047.2	21800.7	23842.0	25297.8	26896.1	28135.7
60°	8677.0	8645.4	10027.4	11984.3	15824.3	20719.3	25688.2	29987.1	30071.5	31828.0
62.5°	4879.2	4889.7	5939.4	7611.5	11071.8	16932.0	25598.5	34966.5	34607.8	36148.1
65°	2764.0	2832.6	3555.2	4509.9	6630.4	11367.1	22016.9	36949.8	38105.0	39476.4
66°	2336.7	2384.2	3001.3	3724.0	5290.6	9220.3	19817.3	36564.8	39202.2	40246.6
67.5°	1809.2	1872.5	2389.5	2953.9	3882.2	6382.5	15950.9	34650.0	39402.6	40014.5
70°	1239.6	1281.8	1677.4	2241.8	2653.2	3265.1	9536.8	28647.3	35752.4	36269.4
72.5°	870.3	891.4	1176.3	1698.5	2041.3	1867.3	4731.5	20381.7	27360.3	28367.8
75°	627.7	648.8	807.0	1218.5	1593.0	1223.7	2167.9	13018.2	16779.1	17570.3
77.5°	453.6	480.0	548.6	785.9	1155.2	859.8	1065.5	6799.2	7912.2	7775.0
80°	274.3	300.7	406.2	506.4	844.0	606.6	585.5	2837.8	2806.2	2663.8
82.5°	126.6	147.7	216.3	342.9	590.8	422.0	279.6	1012.8	886.2	812.3
85°	36.9	47.5	126.6	258.5	300.7	205.7	168.8	348.1	364.0	311.2
87.5°	0.0	5.3	58.0	63.3	89.7	68.6	63.3	89.7	168.8	137.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575134

CATALOG NUMBER: EPH-VN-08-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4256.7	0°	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7	4256.7
4393.9	2.5°	4298.9	4262.0	4172.3	4035.2	3913.9	3850.6	3760.9	3681.8	3639.6	3634.3
4488.8	5°	4404.4	4304.2	4088.0	3840.0	3655.4	3455.0	3317.8	3217.6	3122.7	3033.0
4768.4	7.5°	4546.9	4388.6	4035.2	3713.4	3312.6	3054.1	2811.5	2669.0	2584.6	2505.5
5032.1	10°	4768.4	4568.0	3998.3	3418.1	2959.2	2579.4	2331.5	2125.7	2009.7	1872.5
5364.4	12.5°	5069.1	4710.4	3861.1	3149.0	2558.3	2157.4	1804.0	1471.7	1287.0	1144.6
5744.2	15°	5369.7	4900.3	3734.5	2822.0	2194.3	1666.8	1149.9	923.1	870.3	838.7
6219.0	17.5°	5665.1	5053.2	3539.4	2489.7	1777.6	1060.2	838.7	791.2	764.8	733.2
6656.8	20°	6023.8	5153.5	3296.7	2183.8	1223.7	785.9	717.4	685.7	643.5	601.3
7231.7	22.5°	6371.9	5237.9	3017.2	1793.4	822.9	680.4	601.3	559.1	522.2	480.0
7695.9	25°	6720.1	5264.2	2653.2	1287.0	664.6	543.3	469.5	411.4	374.5	337.6
8112.6	27.5°	6957.4	5100.7	2310.4	822.9	532.8	411.4	327.0	279.6	247.9	211.0
8476.6	30°	7094.6	4800.0	1941.1	580.2	400.9	279.6	195.2	147.7	116.0	89.7
9099.0	32.5°	7231.7	4557.4	1524.4	443.1	263.7	147.7	73.8	26.4	0.0	0.0
9679.2	35°	7506.0	4283.1	1023.3	247.9	89.7	5.3	0.0	0.0	0.0	0.0
10423.0	37.5°	7680.1	3903.3	469.5	36.9	0.0	0.0	0.0	0.0	0.0	0.0
11451.5	40°	8117.9	3713.4	116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12844.1	42.5°	8830.0	3581.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14510.9	45°	9610.6	3528.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16135.5	47.5°	10649.8	3671.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18224.4	50°	11746.9	4056.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19838.4	52.5°	12949.6	4420.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21505.3	55°	13999.3	4858.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23847.3	57.5°	15929.8	5891.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28051.3	60°	19395.4	7922.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32830.2	62.5°	23298.7	9431.3	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35731.3	65°	24728.2	9394.4	100.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
35673.3	66°	24475.0	8877.5	100.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
34665.8	67.5°	23161.6	7885.8	89.7	10.5	0.0	0.0	0.0	0.0	0.0	0.0
30129.5	70°	19891.2	6514.4	89.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0
23435.8	72.5°	15165.0	5074.3	84.4	21.1	5.3	0.0	0.0	0.0	0.0	0.0
14115.3	75°	9151.7	2700.7	68.6	26.4	10.5	0.0	0.0	0.0	0.0	0.0
6071.3	77.5°	3644.9	949.5	52.7	21.1	10.5	0.0	0.0	0.0	0.0	0.0
1909.5	80°	986.4	284.8	31.6	21.1	15.8	5.3	0.0	0.0	0.0	0.0
538.0	82.5°	258.5	105.5	26.4	21.1	10.5	5.3	0.0	0.0	0.0	0.0
179.3	85°	100.2	42.2	21.1	15.8	15.8	10.5	5.3	0.0	0.0	0.0
58.0	87.5°	31.6	15.8	15.8	10.5	10.5	5.3	5.3	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



