

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: P575300

Luminaire Tested: **EPH-VN-08-740-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

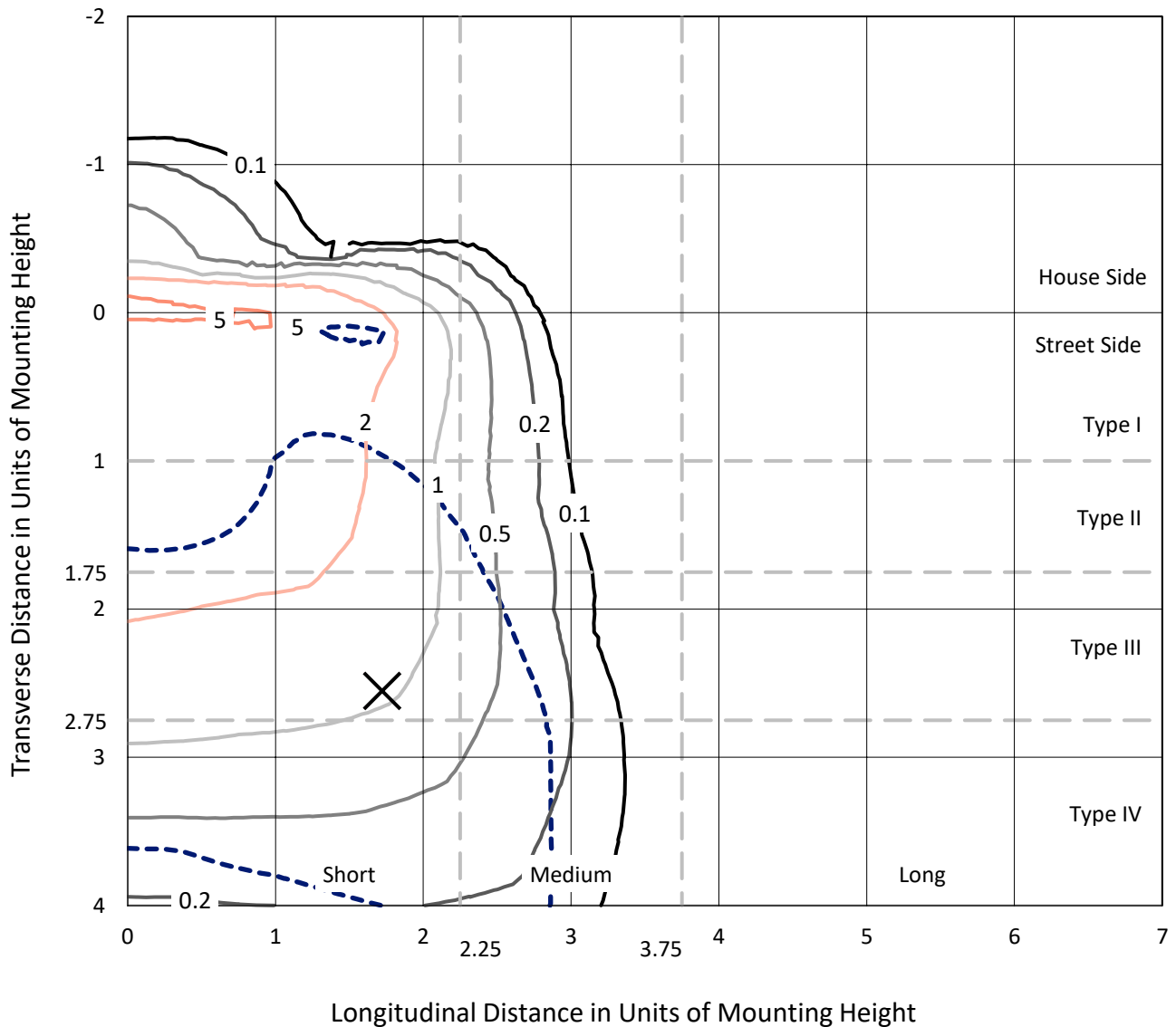
Lumens per Lamp: N/A
Luminaire Lumens: 34832.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: P575300
 CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

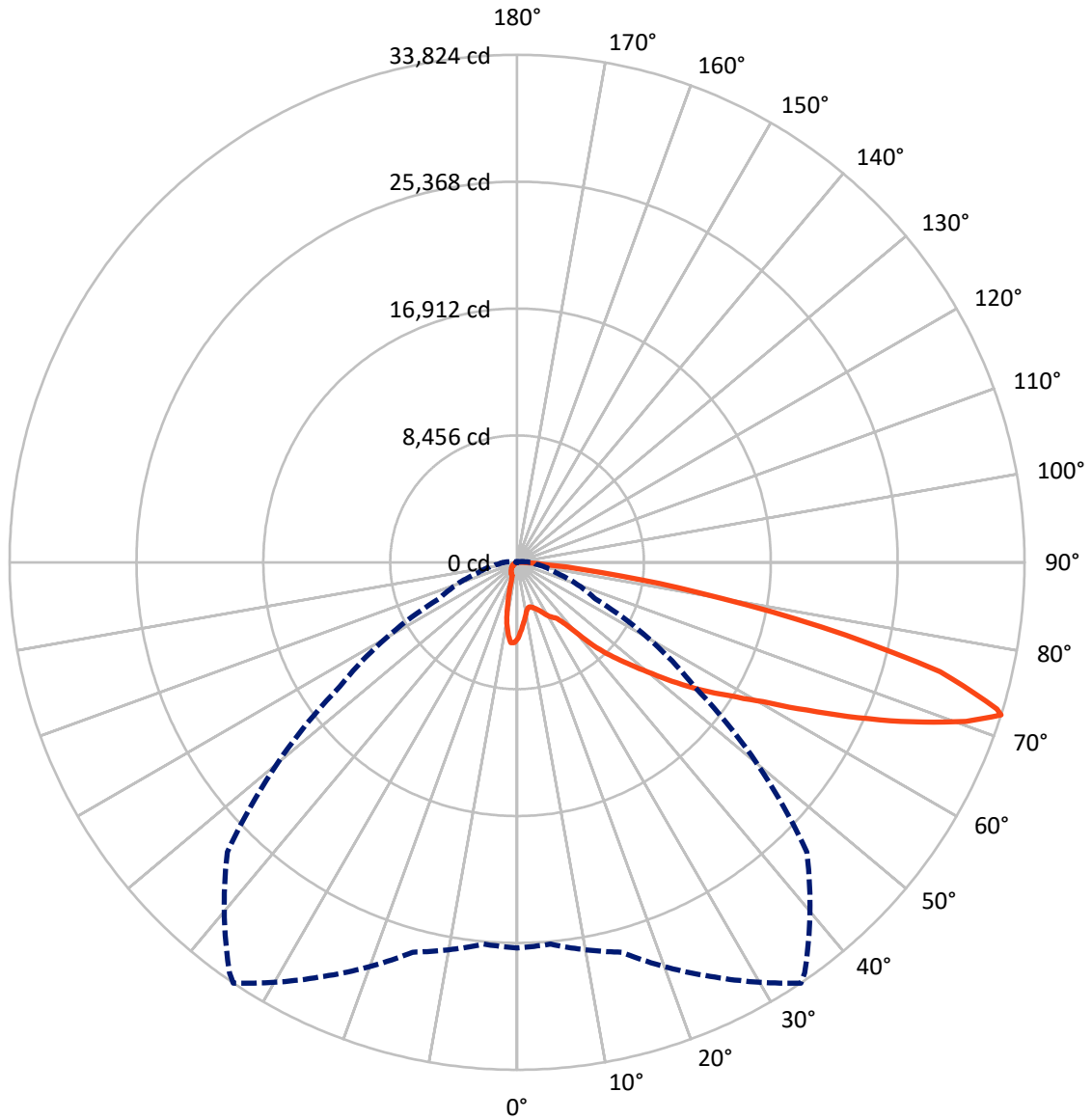
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P575300
CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P575300
 CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

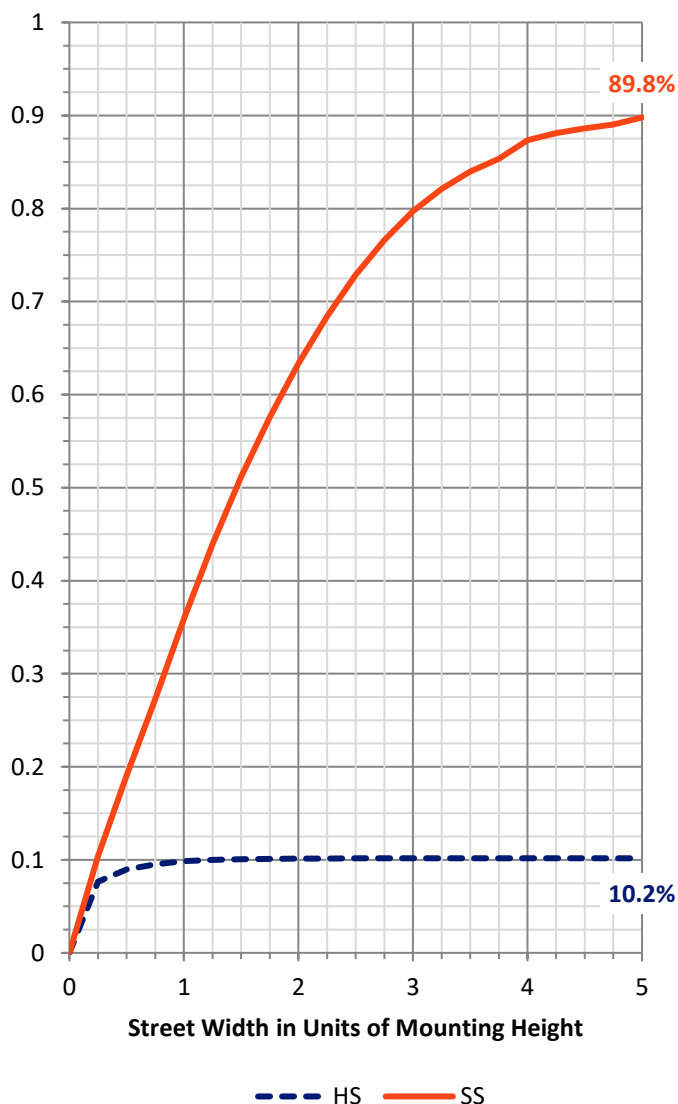
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3566.0	0.0	3566.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	31266.3	0.0	31266.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	34832.3	0.0	34832.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.4	1.3
10°-20°	1001.5	2.9
20°-30°	1511.7	4.3
30°-40°	2453.2	7.0
40°-50°	4613.1	13.2
50°-60°	7542.5	21.7
60°-70°	10026.7	28.8
70°-80°	6714.8	19.3
80°-90°	526.2	1.5
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°	34832.3	100.0
0°-180°	34832.3	100.0

Coefficient of Utilization



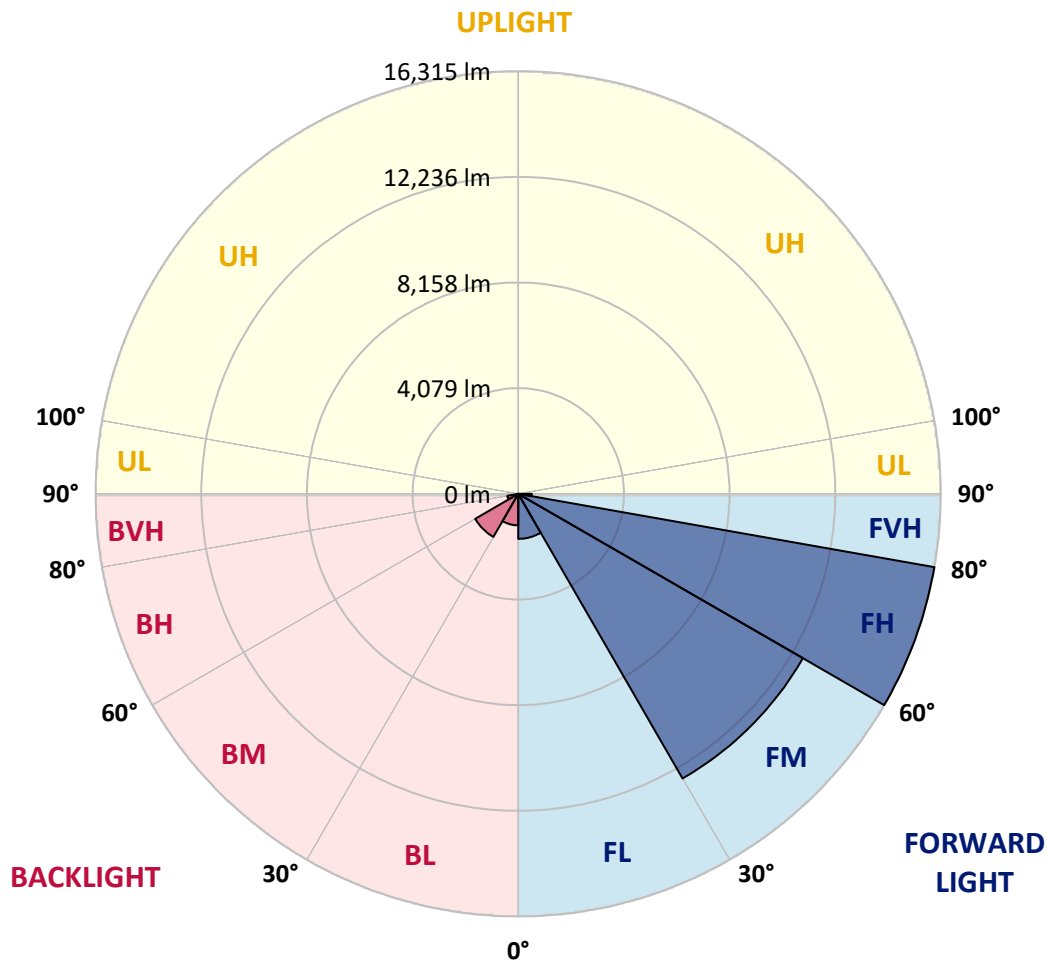
REPORT NUMBER: P575300
 CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.9	5.0			
FM (30°-60°)	12689.3	36.4			
FH (60°-80°)	16315.1	46.8			G5
FVH (80°-90°)	522.9	1.5			G4/750
BL (0°-30°)	1216.7	3.5	B3/2500		
BM (30°-60°)	1919.5	5.5	B2/2500		
BH (60°-80°)	426.4	1.2	B1/500		G1/500
BVH (80°-90°)	3.3	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 IV Short





REPORT NUMBER: P575300

CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
2.5°	4506.8	4496.8	4527.0	4577.3	4627.7	4607.5	4703.2	4803.9	4874.4	4970.1
5°	3937.8	3963.0	3993.2	4093.9	4159.4	4174.5	4350.7	4481.6	4698.2	4919.7
7.5°	3419.1	3449.4	3509.8	3620.6	3756.5	3791.8	3968.0	4229.9	4511.9	4803.9
10°	3041.5	3071.7	3137.2	3207.7	3388.9	3388.9	3630.6	3993.2	4360.8	4703.2
12.5°	2960.9	2976.0	2971.0	3026.4	3142.2	3167.4	3404.0	3801.8	4229.9	4668.0
15°	3056.6	3066.7	3016.3	2986.1	3086.8	3112.0	3333.5	3686.0	4144.3	4688.1
17.5°	3247.9	3212.7	3112.0	3066.7	3152.3	3167.4	3373.8	3681.0	4134.2	4743.5
20°	3358.7	3399.0	3222.8	3137.2	3258.0	3278.1	3499.7	3761.6	4184.5	4839.2
22.5°	3555.1	3575.2	3338.6	3283.2	3399.0	3399.0	3650.8	3922.7	4305.4	4995.3
25°	3832.1	3806.9	3529.9	3474.5	3585.3	3630.6	3882.4	4179.5	4491.7	5141.3
27.5°	4048.6	4063.7	3837.1	3691.1	3877.4	3907.6	4179.5	4456.5	4632.7	5262.2
30°	4370.9	4340.7	4098.9	3932.8	4164.4	4169.4	4431.3	4718.3	4904.6	5478.7
32.5°	4753.6	4693.1	4416.2	4179.5	4365.8	4411.1	4678.0	5096.0	5327.6	5886.6
35°	5564.3	5418.3	4965.1	4597.5	4612.6	4632.7	5045.6	5644.9	5911.7	6405.2
37.5°	6747.6	6687.2	6173.6	5473.7	5206.8	5146.3	5609.6	6370.0	6702.3	7090.1
40°	7920.9	7835.3	7357.0	6828.2	6344.8	6224.0	6455.6	7331.8	7633.9	8041.8
42.5°	9225.1	9074.1	8510.1	8082.1	7779.9	7649.0	7558.4	8540.3	8882.7	9159.7
45°	10544.5	10297.7	9482.0	9154.6	8993.5	8923.0	8912.9	10061.0	10267.5	10322.9
47.5°	11702.6	11435.8	10695.5	10327.9	10207.1	10186.9	10750.9	11813.4	11652.3	11506.3
50°	12593.9	12422.7	11889.0	11758.0	11667.4	11632.1	12951.5	13616.2	12870.9	12614.1
52.5°	13973.7	13591.0	12986.7	13032.0	13349.3	13354.3	15182.2	15328.2	13883.0	13374.4
55°	15076.5	14824.7	14331.2	14265.7	15101.6	15192.3	17181.3	16627.4	14447.0	14099.6
57.5°	16375.6	16259.8	15902.3	15912.4	16788.6	16979.9	18958.9	17725.2	14915.3	14567.9
60°	18253.9	17921.6	17735.2	17820.8	18853.1	19039.4	20681.0	18515.7	15141.9	14875.0
62.5°	20328.5	19940.8	19739.4	20177.5	21683.1	21713.3	21990.3	19215.7	15000.9	14955.6
65°	22826.2	22443.5	22282.3	23163.6	24951.2	24840.4	23828.3	19512.8	14552.8	14144.9
67.5°	25313.8	25082.1	24749.8	26154.7	28380.4	28380.4	25736.7	19402.0	13379.5	11355.2
70°	26492.1	26653.2	27181.9	29387.5	31749.2	31507.5	27620.0	18128.0	9960.3	6098.1
72°	25706.5	25540.4	26905.0	30445.0	33823.8	33426.0	27302.8	14411.8	5755.6	2673.9
72.5°	24357.0	24513.1	26391.4	30299.0	33436.1	33763.4	26527.3	13293.9	4733.4	2130.0
75°	14935.5	15202.4	19699.1	25726.7	29135.7	28768.1	20519.9	6334.7	1817.8	906.4
77.5°	5453.5	5675.1	9557.5	16189.3	20721.3	20489.7	11873.8	2250.9	987.0	674.8
80°	1420.0	1535.8	3247.9	7467.7	12186.1	12201.2	4970.1	901.4	669.7	553.9
82.5°	282.0	312.2	997.0	2905.5	5695.2	5619.7	1571.1	483.4	503.6	453.2
85°	35.2	45.3	211.5	987.0	1843.0	1651.7	387.7	241.7	372.6	352.5
87.5°	5.0	5.0	50.4	226.6	387.7	377.7	80.6	75.5	166.2	216.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575300

CATALOG NUMBER: EPH-VN-08-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5096.0	0°	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0	5096.0
5085.9	2.5°	5151.4	5171.5	5242.0	5302.4	5372.9	5393.1	5362.9	5413.2	5342.7	5383.0
5126.2	5°	5161.4	5277.3	5408.2	5493.8	5473.7	5423.3	5383.0	5247.1	5151.4	5116.1
5141.3	7.5°	5231.9	5362.9	5503.9	5503.9	5393.1	5131.2	4879.5	4637.7	4436.3	4335.6
5146.3	10°	5322.6	5458.5	5604.6	5413.2	5000.3	4521.9	4164.4	3711.2	3404.0	3242.9
5226.9	12.5°	5443.4	5634.8	5685.1	5242.0	4557.2	3847.2	3197.6	2568.1	2276.1	2044.4
5357.8	15°	5599.5	5785.9	5634.8	4869.4	3993.2	2945.8	2165.3	1566.1	1334.4	1213.6
5508.9	17.5°	5806.0	5947.0	5619.7	4527.0	3232.8	2014.2	1329.4	1057.5	1007.1	987.0
5720.4	20°	6047.7	6153.5	5473.7	3993.2	2402.0	1294.1	976.9	946.7	951.7	941.6
5972.2	22.5°	6319.6	6354.9	5307.5	3373.8	1626.5	956.8	911.4	916.5	921.5	911.4
6203.8	25°	6606.7	6511.0	5065.8	2648.7	1082.6	871.2	881.2	891.3	896.3	901.4
6485.8	27.5°	6928.9	6737.6	4728.4	1938.7	846.0	820.8	851.0	881.2	886.3	886.3
6908.8	30°	7402.3	7085.0	4401.1	1314.3	745.3	765.4	815.8	851.0	876.2	876.2
7563.4	32.5°	8001.5	7447.6	3942.8	896.3	689.9	699.9	740.2	810.7	866.1	871.2
8439.6	35°	8832.4	7885.7	3464.5	715.0	649.6	654.6	679.8	735.2	830.9	861.1
9577.6	37.5°	9708.6	8384.2	2870.3	644.6	619.4	614.3	629.4	674.8	760.4	835.9
10745.9	40°	10640.1	8907.9	2245.9	609.3	594.2	584.1	589.2	609.3	674.8	770.4
11889.0	42.5°	11516.3	9381.2	1686.9	574.1	569.0	558.9	558.9	564.0	599.2	664.7
13157.9	45°	12463.0	9769.0	1284.1	548.9	533.8	538.8	518.7	508.6	533.8	538.8
14572.9	47.5°	13349.3	10156.7	1027.3	518.7	503.6	503.6	478.4	458.2	458.2	412.9
15816.7	50°	14180.1	10368.2	820.8	478.4	473.3	468.3	433.1	397.8	367.6	312.2
16990.0	52.5°	14870.0	10358.1	634.5	428.0	443.1	428.0	372.6	322.3	277.0	226.6
17423.0	55°	15076.5	9874.7	478.4	352.5	377.7	357.5	297.1	251.8	201.4	161.1
17488.5	57.5°	14900.2	9139.5	362.6	271.9	292.1	271.9	226.6	186.3	141.0	110.8
17327.4	60°	14311.1	8278.5	282.0	211.5	221.6	206.5	171.2	141.0	100.7	70.5
16290.0	62.5°	13193.2	7200.8	216.5	166.2	161.1	161.1	130.9	105.7	70.5	40.3
13565.8	65°	10826.5	5614.6	166.2	115.8	115.8	115.8	100.7	75.5	45.3	20.1
8872.7	67.5°	6798.0	3268.1	136.0	90.6	85.6	85.6	70.5	50.4	25.2	5.0
3489.6	70°	2558.1	1198.5	105.7	70.5	65.5	65.5	50.4	30.2	15.1	0.0
1213.6	72°	881.2	458.2	85.6	50.4	50.4	45.3	35.2	25.2	10.1	0.0
916.5	72.5°	725.1	367.6	80.6	50.4	45.3	45.3	35.2	25.2	10.1	0.0
327.3	75°	261.8	151.1	55.4	35.2	30.2	30.2	25.2	15.1	5.0	0.0
166.2	77.5°	130.9	95.7	45.3	30.2	25.2	15.1	15.1	10.1	5.0	0.0
100.7	80°	80.6	60.4	25.2	20.1	15.1	10.1	5.0	5.0	0.0	0.0
70.5	82.5°	55.4	35.2	15.1	15.1	10.1	5.0	0.0	0.0	0.0	0.0
45.3	85°	35.2	15.1	10.1	10.1	5.0	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	15.1	10.1	5.0	0.0	0.0	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

