

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: P575447

Luminaire Tested: **EPH-VN-07-730-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575447
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-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

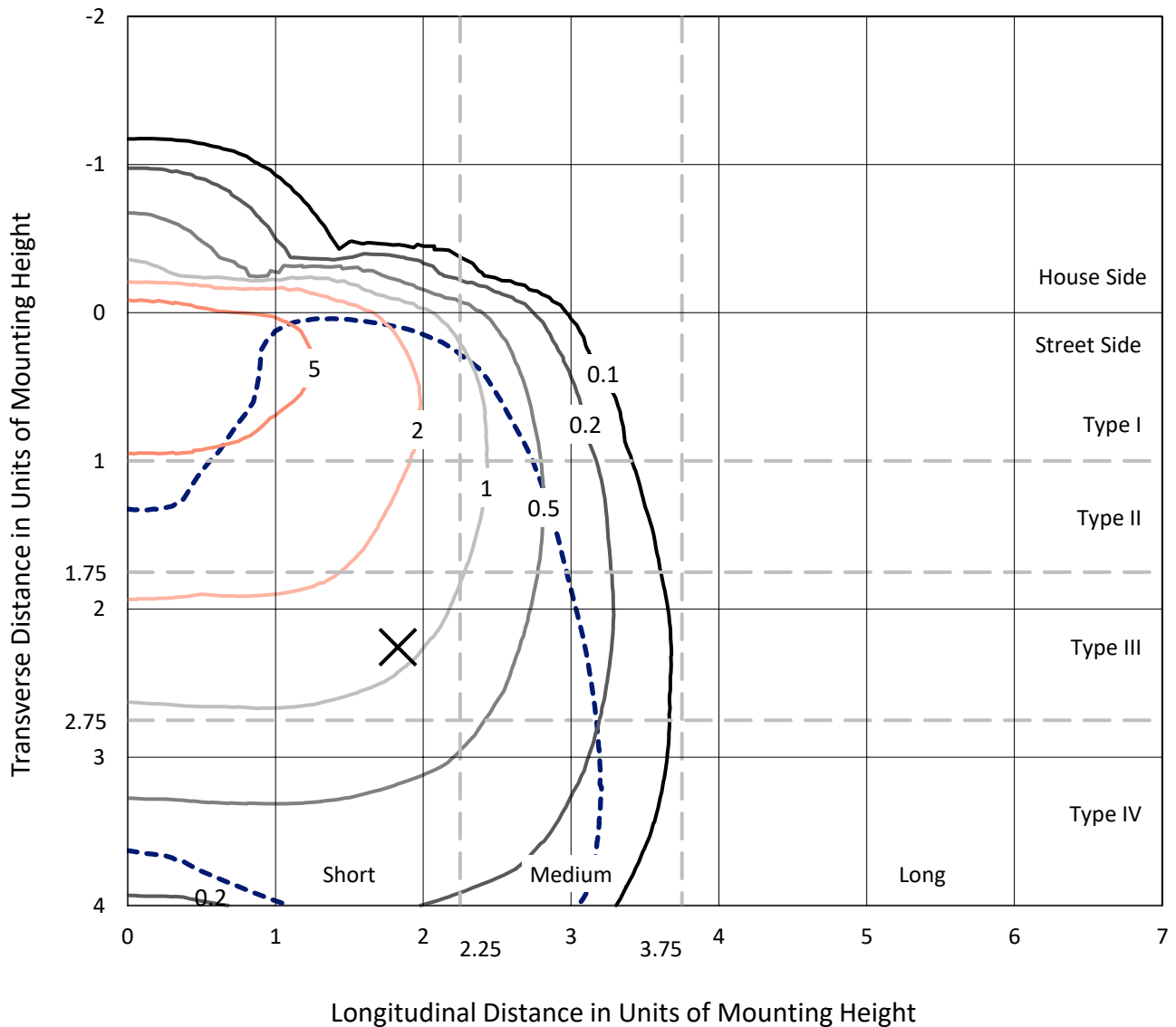
Lumens per Lamp: N/A
Luminaire Lumens: 42466.3 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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: P575447
 CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

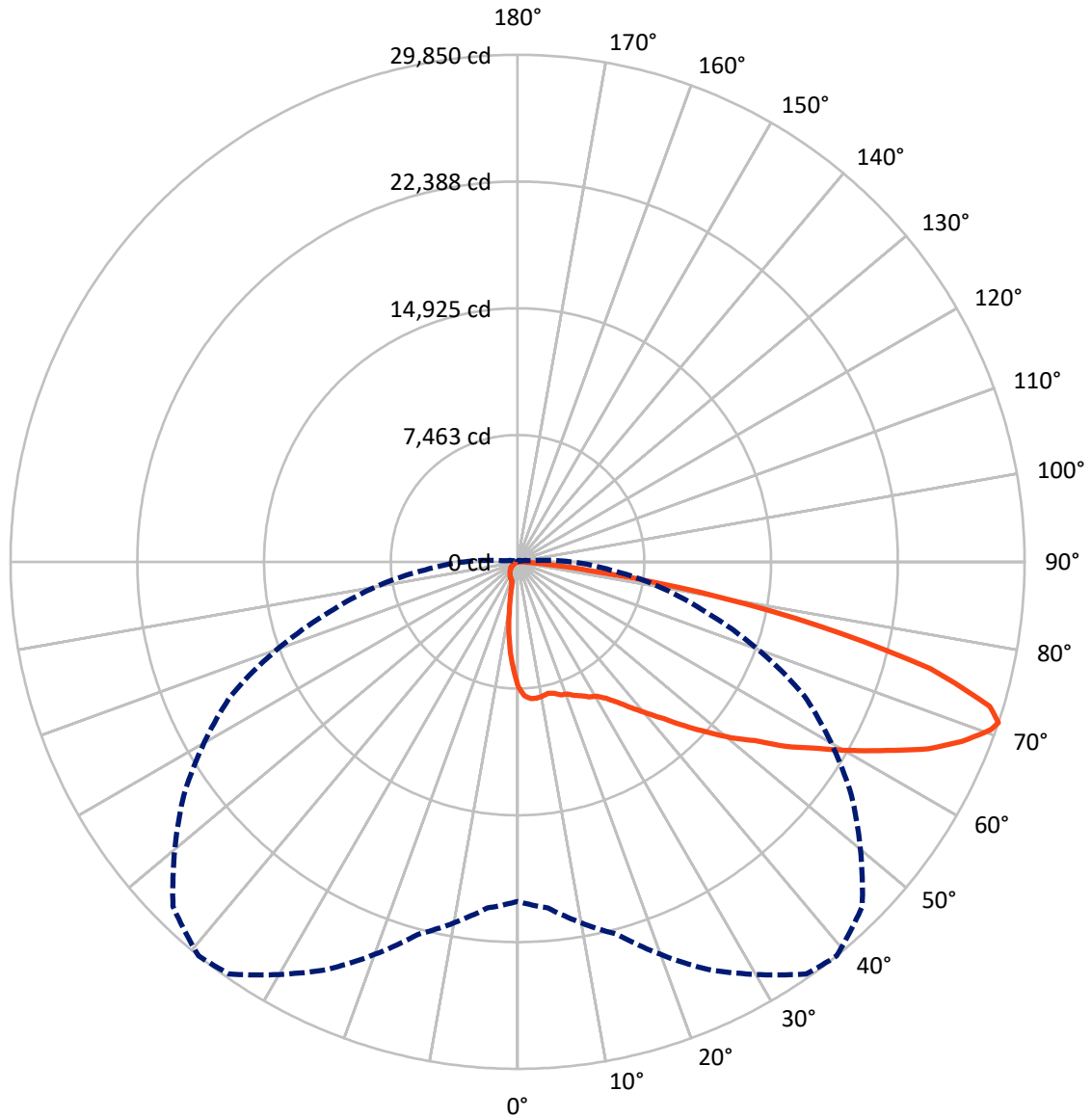
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P575447
CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P575447
 CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

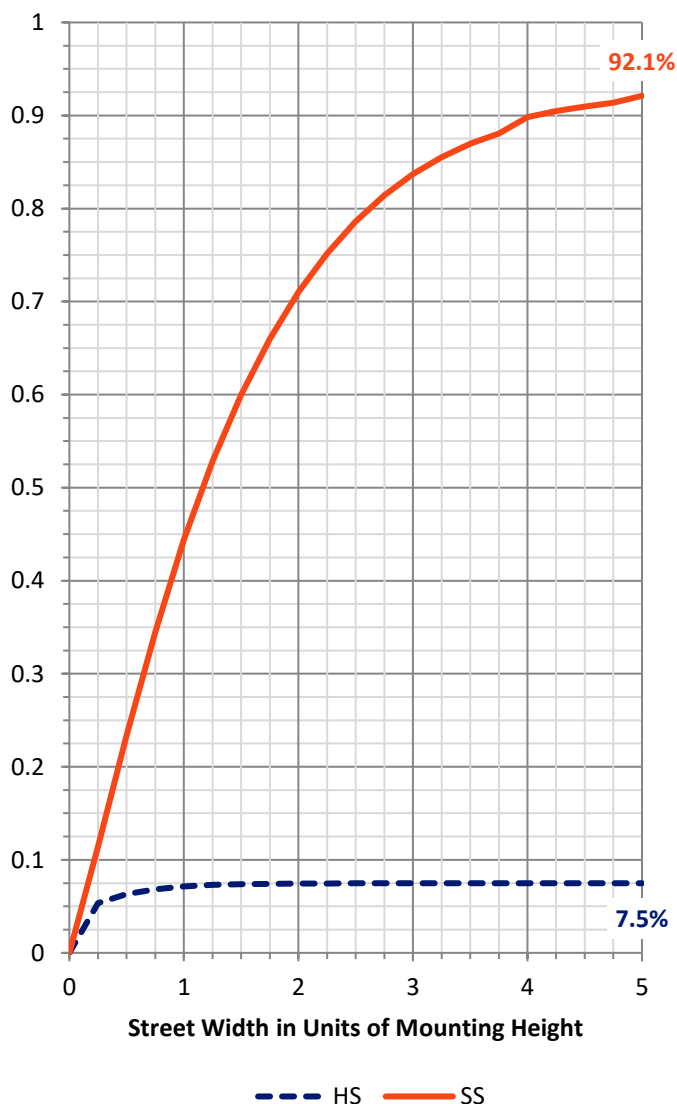
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3197.0	0.0	3197.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	39269.3	0.0	39269.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	42466.3	0.0	42466.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.0	1.5
10°-20°	1521.1	3.6
20°-30°	2441.8	5.8
30°-40°	3737.8	8.8
40°-50°	5999.9	14.1
50°-60°	8812.9	20.8
60°-70°	11099.5	26.1
70°-80°	7407.5	17.4
80°-90°	827.8	1.9
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°	42466.3	100.0
0°-180°	42466.3	100.0

Coefficient of Utilization



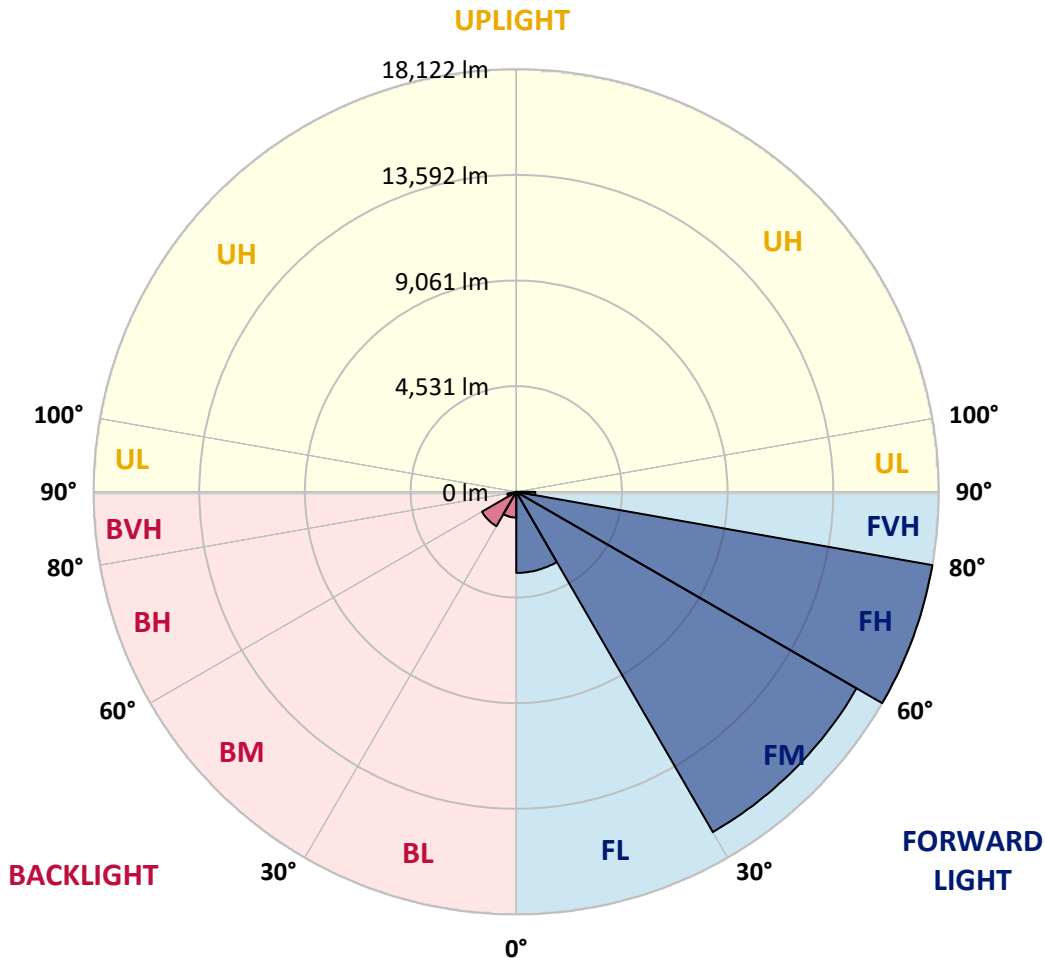
REPORT NUMBER: P575447
 CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3477.1	8.2			
FM (30°-60°)	16851.3	39.7			
FH (60°-80°)	18122.2	42.7			G5
FVH (80°-90°)	818.7	1.9			G5
BL (0°-30°)	1103.8	2.6	B3/2500		
BM (30°-60°)	1699.4	4.0	B2/2500		
BH (60°-80°)	384.8	0.9	B1/500		G1/500
BVH (80°-90°)	9.1	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: P575447
 CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5
2.5°	7965.3	8043.2	7965.3	7931.8	7898.4	7904.0	7814.9	7831.6	7725.7	7586.5
5°	8215.9	8321.7	8238.2	8199.2	8193.6	8087.8	8043.2	7937.4	7809.3	7592.1
7.5°	8193.6	8171.3	8210.3	8176.9	8104.5	8104.5	8054.4	7904.0	7775.9	7530.8
10°	8026.5	8093.4	8059.9	8021.0	8037.7	8043.2	7948.5	7842.7	7803.7	7558.6
12.5°	8009.8	7898.4	8021.0	8026.5	7954.1	7948.5	7937.4	7909.6	7787.0	7564.2
15°	7954.1	7909.6	8032.1	8037.7	8054.4	8037.7	8054.4	8032.1	7909.6	7781.4
17.5°	7998.7	7948.5	8121.2	8204.8	8165.8	8243.8	8215.9	8115.6	8009.8	7859.4
20°	8009.8	8082.2	8271.6	8305.0	8427.6	8299.5	8293.9	8188.1	8121.2	7959.7
22.5°	8215.9	8249.3	8483.3	8555.7	8561.3	8544.5	8405.3	8282.7	8254.9	8054.4
25°	8527.8	8644.8	8750.6	8795.2	8811.9	8733.9	8589.1	8433.1	8366.3	8238.2
27.5°	9079.3	9006.9	9101.6	9168.4	8979.0	9006.9	8823.0	8689.4	8594.7	8483.3
30°	9569.4	9502.6	9508.2	9497.0	9335.5	9185.1	9135.0	8901.0	8784.1	8828.6
32.5°	10009.5	9864.7	9987.2	9931.5	9630.7	9586.2	9547.2	9251.9	9274.2	9480.3
35°	10416.1	10366.0	10466.2	10366.0	10165.4	10154.3	10115.3	9859.1	9981.6	10276.8
37.5°	10789.3	10806.0	10928.5	10878.4	10895.1	10906.3	10884.0	10611.1	10962.0	11624.8
40°	11134.6	11112.4	11413.1	11569.1	11602.5	11725.1	11725.1	11658.2	12198.5	12944.9
42.5°	11502.3	11558.0	11947.9	12209.7	12527.2	12633.0	12777.8	12811.2	13646.8	14499.0
45°	12103.8	12009.1	12504.9	13123.2	13401.7	13774.9	13997.7	14187.1	15195.3	16365.0
47.5°	12866.9	12677.6	13112.0	14008.8	14654.9	14961.3	15362.4	15613.0	16598.9	17807.6
50°	13713.6	13518.6	13730.3	14966.9	15718.8	16275.9	16788.3	17105.8	18297.8	19423.0
52.5°	14671.7	14493.4	14526.8	15963.9	17072.4	17479.0	18153.0	18626.4	19812.9	20397.7
55°	15691.0	15646.4	15540.6	16938.7	18258.8	19172.3	19578.9	20147.1	21366.9	20926.9
57.5°	16715.9	16576.6	16727.0	18231.0	20163.8	20709.7	21272.2	21612.0	22230.3	21389.2
60°	17679.5	17690.7	17902.3	19634.6	21784.7	22558.9	23065.8	22859.7	23115.9	21589.7
62.5°	18492.8	18470.5	19005.2	21211.0	23929.2	24452.8	24831.5	23912.5	23528.1	21784.7
65°	19222.4	19473.1	20314.2	23088.1	25945.6	26547.1	26318.8	24909.5	23929.2	21211.0
67.5°	19773.9	20147.1	21606.4	24853.8	27794.8	28218.2	27900.7	25667.1	23455.7	18960.6
70°	20096.9	20475.7	22531.1	26324.3	29270.9	29577.3	28830.9	25082.2	20692.9	13730.3
71°	19996.7	20459.0	22709.3	26480.3	29621.8	29850.2	28691.6	24001.6	18609.7	11496.7
72.5°	19088.8	19523.2	21968.5	26368.9	29198.5	29059.2	27605.4	21405.9	14649.4	7330.3
75°	14025.5	14493.4	18854.8	22809.6	26062.5	25104.5	22341.7	15022.6	7642.2	2244.8
77.5°	6984.9	7062.9	11702.8	16559.9	19116.6	18164.1	14972.4	8377.4	2857.5	662.8
80°	3219.5	3241.8	4389.2	8578.0	11558.0	10878.4	8388.6	4133.0	1292.3	350.9
82.5°	2194.6	2228.0	2645.8	3553.7	5018.7	4233.3	3397.8	2645.8	740.8	211.7
85°	401.0	367.6	1481.6	1882.7	1938.4	1314.5	1175.3	2289.3	278.5	122.5
87.5°	0.0	5.6	206.1	768.7	690.7	306.4	401.0	557.0	27.9	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575447

CATALOG NUMBER: EPH-VN-07-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7391.5	0°	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5	7391.5
7475.1	2.5°	7380.4	7319.1	7113.0	6884.7	6678.6	6517.0	6310.9	6216.2	6065.8	5982.3
7458.4	5°	7274.6	7107.5	6751.0	6366.6	5937.7	5581.2	5185.8	4963.0	4706.7	4628.8
7302.4	7.5°	7096.3	6856.8	6333.2	5792.9	5135.6	4506.2	4021.6	3503.6	3186.1	3052.4
7185.4	10°	6984.9	6695.3	5982.3	5174.6	4255.6	3369.9	2690.4	2138.9	1849.3	1710.0
7213.3	12.5°	6984.9	6673.0	5698.2	4584.2	3364.3	2306.0	1665.5	1348.0	1253.3	1219.9
7335.8	15°	6968.2	6628.4	5425.3	3977.1	2489.8	1548.5	1242.1	1175.3	1164.2	1158.6
7452.8	17.5°	7051.8	6550.4	5146.8	3325.4	1760.2	1219.9	1141.9	1130.7	1119.6	1119.6
7525.2	20°	7113.0	6505.9	4812.6	2634.7	1314.5	1130.7	1097.3	1080.6	1075.0	1069.5
7541.9	22.5°	7062.9	6439.0	4400.4	1971.8	1147.4	1075.0	1052.8	1036.0	1024.9	1024.9
7714.6	25°	7157.6	6377.8	3988.2	1487.2	1075.0	1024.9	1002.6	991.5	985.9	980.3
7915.1	27.5°	7285.7	6405.6	3498.0	1197.6	1013.8	974.8	952.5	941.3	935.8	924.6
8227.0	30°	7441.7	6400.1	2957.7	1047.2	958.1	919.1	896.8	891.2	880.1	874.5
8694.9	32.5°	7709.0	6544.9	2400.7	969.2	896.8	863.4	841.1	835.5	829.9	824.4
9497.0	35°	8282.7	6723.1	1877.1	907.9	841.1	802.1	785.4	774.2	768.7	763.1
10432.8	37.5°	8990.2	7118.6	1431.5	852.2	785.4	746.4	729.7	724.1	701.8	696.3
11730.6	40°	9875.8	7541.9	1102.9	791.0	735.3	696.3	679.6	662.8	635.0	623.9
13056.3	42.5°	10978.7	7954.1	907.9	735.3	679.6	651.7	623.9	596.0	573.7	551.4
14382.0	45°	12081.6	8433.1	796.5	685.1	635.0	601.6	579.3	540.3	501.3	467.9
15635.3	47.5°	13000.6	8605.8	729.7	629.4	590.4	562.6	529.2	479.0	423.3	389.9
16548.8	50°	13685.8	8505.6	662.8	573.7	540.3	512.4	467.9	406.6	350.9	317.5
16871.9	52.5°	13819.4	8065.5	601.6	529.2	490.2	456.7	406.6	339.8	278.5	245.1
17222.8	55°	13724.7	7335.8	551.4	490.2	445.6	395.5	339.8	272.9	217.2	183.8
17089.1	57.5°	13529.8	6472.5	495.7	440.0	389.9	339.8	278.5	222.8	161.5	128.1
16782.7	60°	12866.9	5297.2	440.0	384.3	334.2	289.6	228.4	161.5	111.4	83.6
16248.0	62.5°	11942.3	4071.7	384.3	328.6	289.6	239.5	178.2	117.0	66.8	44.6
14744.1	65°	10254.6	2851.9	323.1	272.9	239.5	195.0	133.7	72.4	39.0	16.7
12009.1	67.5°	7792.6	1765.7	267.4	228.4	206.1	156.0	94.7	44.6	16.7	5.6
7491.8	70°	4472.8	919.1	211.7	183.8	161.5	117.0	66.8	22.3	11.1	0.0
5464.3	71°	3124.8	679.6	189.4	161.5	144.8	105.8	55.7	16.7	5.6	0.0
2824.0	72.5°	1565.2	451.2	161.5	133.7	117.0	83.6	44.6	16.7	5.6	0.0
824.4	75°	557.0	289.6	111.4	89.1	83.6	61.3	27.9	11.1	5.6	0.0
412.2	77.5°	384.3	233.9	78.0	55.7	55.7	39.0	16.7	5.6	5.6	0.0
323.1	80°	350.9	128.1	50.1	33.4	27.9	22.3	11.1	5.6	0.0	0.0
317.5	82.5°	350.9	94.7	27.9	22.3	16.7	11.1	5.6	0.0	0.0	0.0
278.5	85°	245.1	50.1	16.7	16.7	11.1	5.6	0.0	0.0	0.0	0.0
50.1	87.5°	39.0	16.7	11.1	5.6	5.6	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

