

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: P575168

Luminaire Tested: **EPH-VN-08-730-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

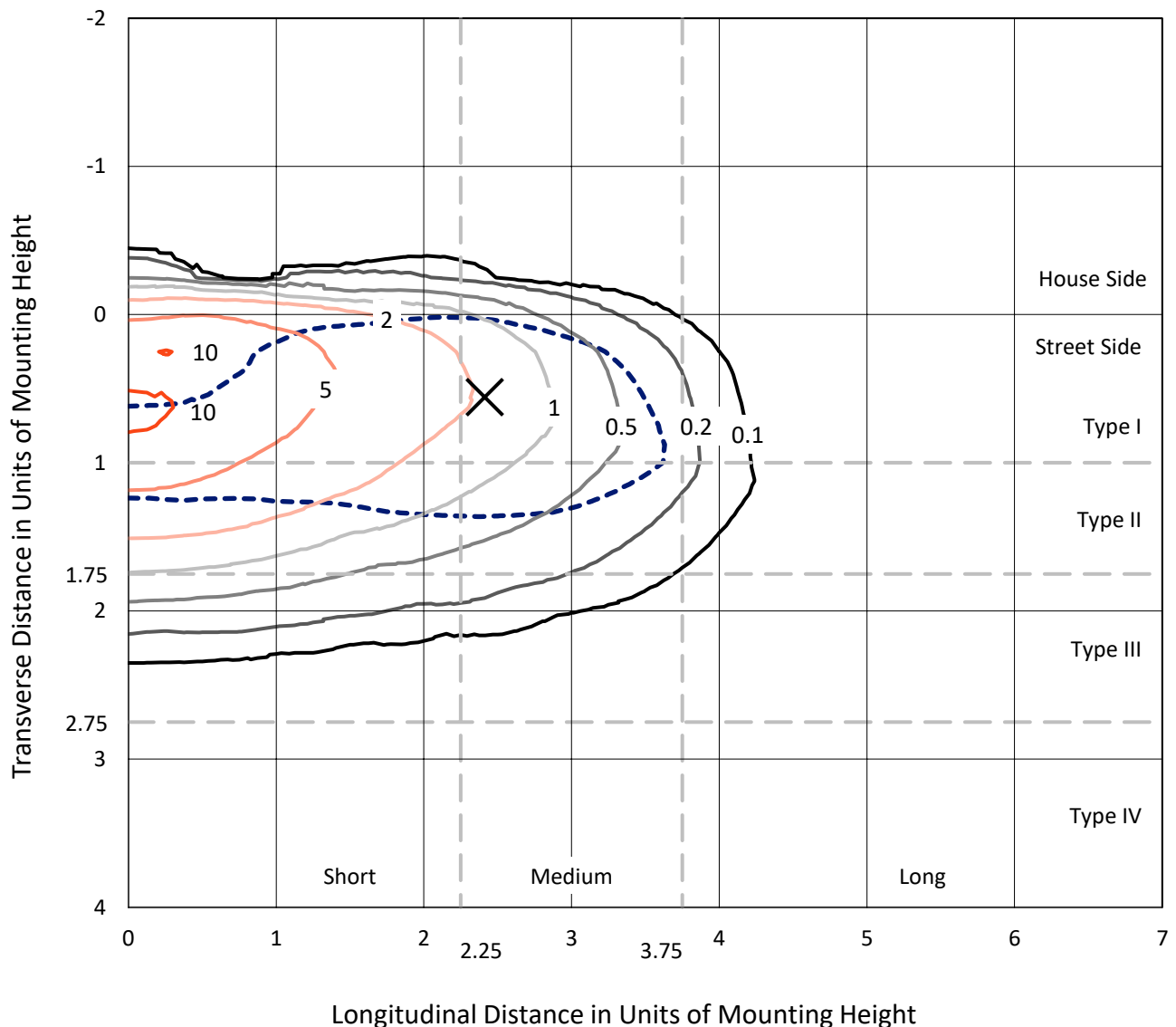
Lumens per Lamp: N/A
Luminaire Lumens: 34487 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

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: P575168
 CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

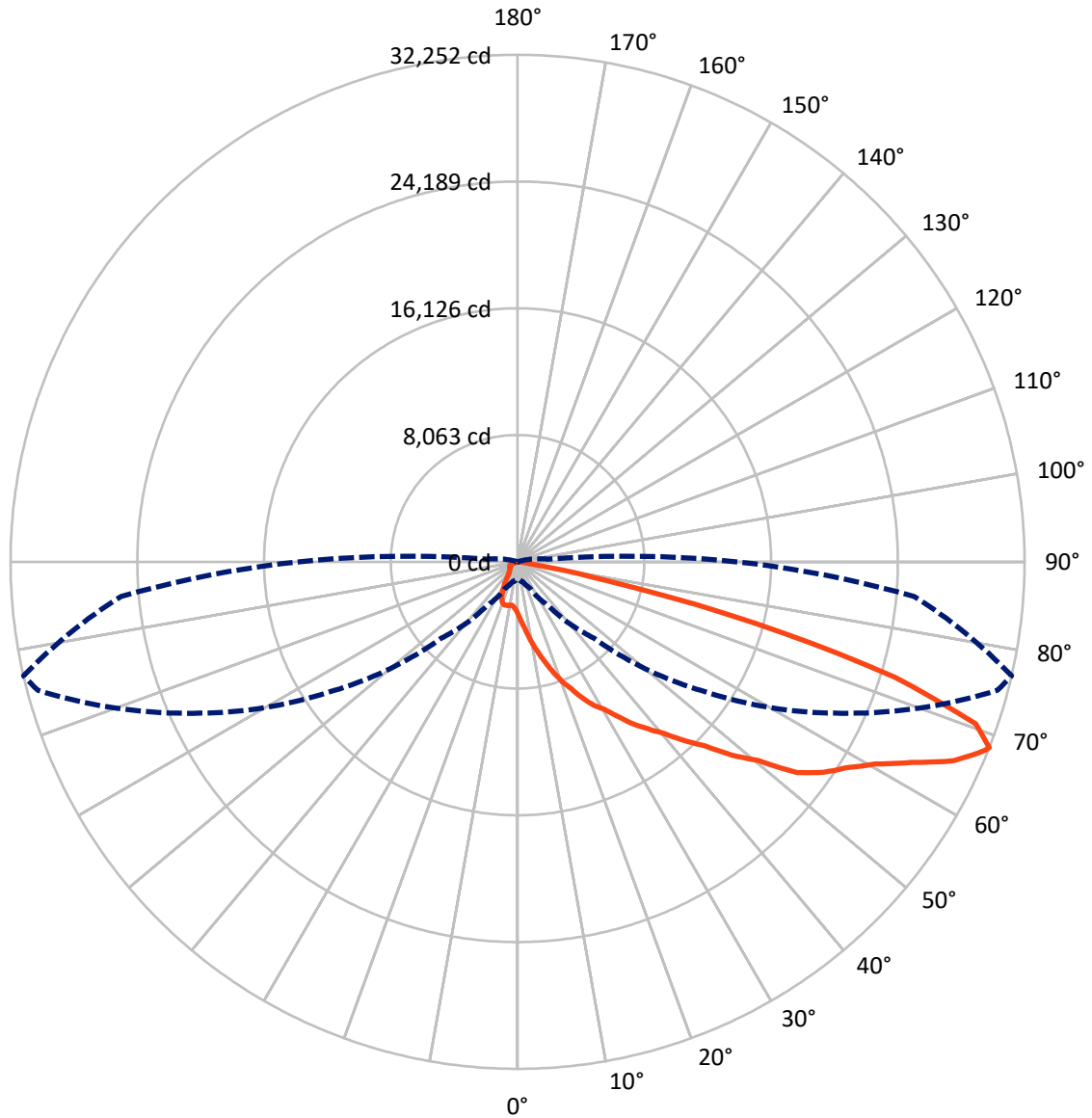
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P575168
CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P575168
 CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

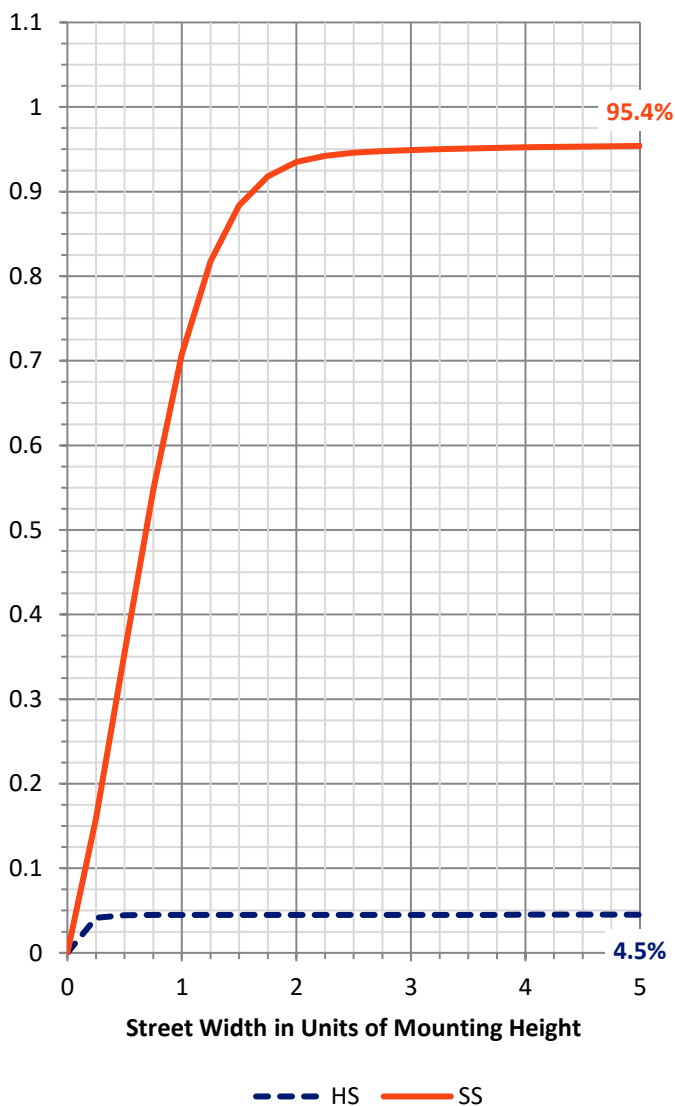
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.0	0.0	1564.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	32923.1	0.0	32923.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	34487.0	0.0	34487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.1
10°-20°	1422.8	4.1
20°-30°	2757.4	8.0
30°-40°	4807.1	13.9
40°-50°	7040.5	20.4
50°-60°	8271.5	24.0
60°-70°	6984.5	20.3
70°-80°	2707.4	7.9
80°-90°	110.1	0.3
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°	34487.0	100.0
0°-180°	34487.0	100.0

Coefficient of Utilization

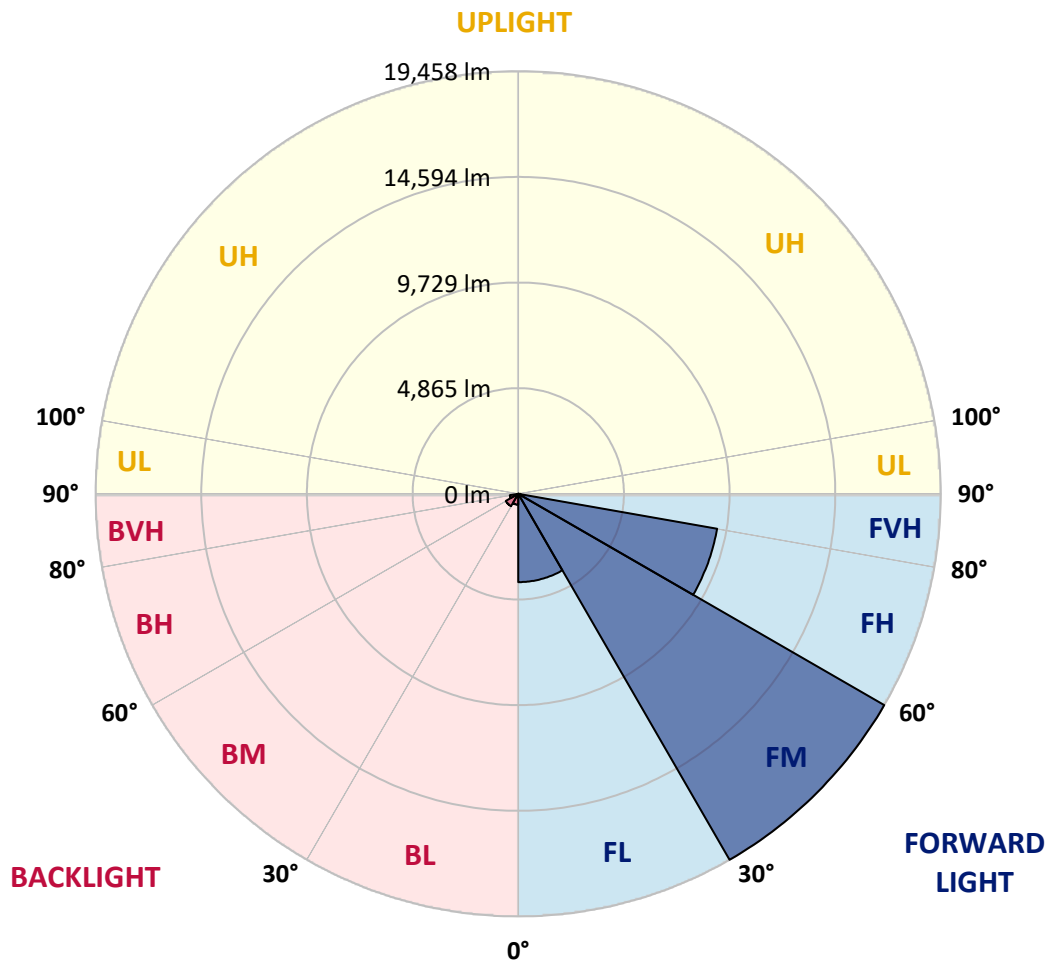


REPORT NUMBER: P575168
 CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4066.3	11.8			
FM (30°-60°)	19458.2	56.4			
FH (60°-80°)	9297.0	27.0			G4/12000
FVH (80°-90°)	101.6	0.3			G2/225
BL (0°-30°)	499.7	1.4	B1/500		
BM (30°-60°)	660.9	1.9	B1/1000		
BH (60°-80°)	394.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





REPORT NUMBER: P575168
 CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2
2.5°	5017.4	4922.4	4822.6	4794.1	4608.8	4399.7	4204.9	4014.9	3696.5	3701.3
5°	6466.6	6347.8	6267.0	6248.0	5958.2	5597.1	5302.5	4765.6	4238.2	4119.4
7.5°	7659.2	7621.2	7502.4	7402.6	7188.8	6746.9	6400.1	5630.3	4827.4	4694.3
10°	8381.4	8438.4	8490.6	8362.4	8196.1	7877.7	7402.6	6571.1	5497.3	5331.0
12.5°	9151.1	9056.1	9089.3	9193.8	8975.3	8904.0	8314.8	7540.4	6281.3	5962.9
15°	9350.6	9388.7	9469.4	9773.5	9920.8	9716.5	9208.1	8324.4	7093.8	6651.9
17.5°	9483.7	9464.7	9564.5	10020.6	10243.9	10438.7	10120.4	9198.6	7801.7	7407.3
20°	9650.0	9545.4	9764.0	10053.8	10571.7	10980.4	10966.1	10077.6	8542.9	8124.8
22.5°	10267.6	10186.9	10362.7	10391.2	10752.3	11322.4	11460.2	10795.0	9303.1	8790.0
25°	11408.0	11555.3	11346.2	11165.7	11274.9	11650.3	11750.1	11431.7	10068.1	9597.7
27.5°	13075.7	13056.7	12643.3	12410.5	12149.2	12101.7	12172.9	12025.6	10671.5	10334.2
30°	14866.9	14710.2	14330.0	13769.4	13194.5	12838.1	12738.3	12586.3	11379.5	10890.1
32.5°	16292.4	16377.9	15955.0	15223.3	14268.3	13788.4	13308.5	13142.2	12158.7	11726.3
35°	17603.7	17489.7	17152.3	16534.7	15679.4	14905.0	14154.2	13797.9	13094.7	12667.1
37.5°	18573.0	18715.5	18074.1	17484.9	16634.4	15993.0	15256.6	14477.3	14059.2	13489.1
40°	19490.0	19266.7	18834.3	18292.7	17503.9	17014.6	16529.9	15313.6	15085.5	14349.1
42.5°	19328.5	19342.7	19105.1	18668.0	18097.9	17817.5	17651.2	16330.4	16016.8	15546.4
45°	18668.0	18725.0	18805.8	18592.0	18639.5	18359.2	18805.8	17499.2	17190.4	16691.5
47.5°	17941.1	18036.1	18017.1	18406.7	18848.6	18943.6	20060.2	18796.3	18663.3	18387.7
50°	16734.2	16772.2	17138.1	17846.0	18449.5	19442.5	21000.9	20212.2	20416.5	19874.9
52.5°	14672.1	14809.9	15750.7	16762.7	17979.1	19694.3	21637.6	22317.1	22834.9	22279.0
55°	12063.7	12253.7	13180.2	15076.0	16857.8	19314.2	22217.3	23428.9	24478.9	23637.9
57.5°	9707.0	9726.0	10557.5	12515.0	15266.1	18568.2	22511.9	23970.5	25381.7	24707.0
60°	7397.8	7321.8	8067.8	9764.0	12586.3	16734.2	21775.4	24246.1	26507.7	26118.1
62.5°	4760.8	4642.1	5454.5	7108.0	9830.5	13679.1	20302.5	24250.8	28265.7	28118.4
65°	2356.7	2275.9	2974.3	4357.0	6803.9	10462.5	18202.4	24160.6	30413.3	30508.4
67.5°	1244.9	1273.4	1496.7	2209.4	3924.6	7393.1	15038.0	23101.0	31510.9	32043.0
68°	1145.1	1154.6	1330.4	1838.8	3406.7	6856.2	14287.3	22792.2	31596.4	32252.1
70°	931.3	945.5	1007.3	1154.6	1843.5	4461.5	11023.1	20169.4	30308.8	30907.5
72.5°	741.2	784.0	822.0	883.7	1083.3	2342.4	6856.2	15717.4	25039.6	25106.1
75°	565.4	598.7	674.7	727.0	845.7	1287.6	3264.2	9583.5	16430.1	15622.4
77.5°	437.1	465.6	498.9	570.2	707.9	869.5	997.8	4067.1	6979.7	5744.4
80°	261.3	280.3	389.6	446.6	617.7	589.2	394.4	1130.8	1415.9	1116.6
82.5°	152.0	166.3	223.3	342.1	432.4	318.3	232.8	351.6	346.8	304.1
85°	4.8	9.5	123.5	204.3	152.0	85.5	142.5	147.3	123.5	114.0
87.5°	0.0	4.8	33.3	28.5	33.3	19.0	28.5	38.0	47.5	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575168

CATALOG NUMBER: EPH-VN-08-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3302.2	0°	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2	3302.2
3482.7	2.5°	3335.4	3230.9	2998.1	2822.3	2632.2	2518.2	2404.2	2332.9	2294.9	2271.1
3720.3	5°	3421.0	3202.4	2827.0	2494.5	2275.9	2128.6	1981.3	1905.3	1834.0	1796.0
4010.1	7.5°	3611.0	3283.2	2660.8	2299.6	2043.1	1815.0	1629.7	1482.4	1396.9	1320.9
4385.5	10°	3843.8	3330.7	2665.5	2185.6	1815.0	1453.9	1192.6	1007.3	902.8	836.2
4860.6	12.5°	4081.4	3516.0	2684.5	2071.6	1534.7	1092.8	784.0	646.2	584.4	551.2
5302.5	15°	4442.5	3682.3	2637.0	1862.5	1164.1	712.7	536.9	489.4	465.6	437.1
5853.7	17.5°	4756.1	3948.4	2613.2	1548.9	798.2	513.1	446.6	394.4	370.6	342.1
6400.1	20°	5179.0	4114.7	2485.0	1197.3	551.2	427.6	361.1	313.6	275.6	251.8
6989.2	22.5°	5563.8	4242.9	2256.9	817.2	422.9	337.3	266.1	218.6	185.3	156.8
7578.4	25°	5981.9	4371.2	1924.3	503.6	299.3	209.1	142.5	104.5	71.3	52.3
8063.0	27.5°	6281.3	4409.2	1491.9	299.3	180.6	95.0	33.3	4.8	0.0	0.0
8542.9	30°	6585.4	4423.5	1031.0	161.5	71.3	0.0	0.0	0.0	0.0	0.0
9094.1	32.5°	6932.2	4418.7	646.2	85.5	4.8	0.0	0.0	0.0	0.0	0.0
9702.2	35°	7198.3	4338.0	308.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0
10443.4	37.5°	7602.1	4219.2	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11279.7	40°	8063.0	4005.4	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12096.9	42.5°	8476.4	3786.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13037.7	45°	8946.8	3516.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14339.5	47.5°	9773.5	3402.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15888.5	50°	10852.1	3311.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17375.7	52.5°	11517.3	3045.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18278.4	55°	11864.1	2770.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19380.7	57.5°	12377.2	2637.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20706.3	60°	13137.5	2646.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22925.2	62.5°	14325.3	2779.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25087.1	65°	14981.0	2646.5	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25609.7	67.5°	14425.1	2119.1	90.3	23.8	4.8	0.0	0.0	0.0	0.0	0.0
25319.9	68°	13945.2	1948.1	90.3	23.8	4.8	0.0	0.0	0.0	0.0	0.0
22920.5	70°	11526.8	1268.6	85.5	23.8	9.5	0.0	0.0	0.0	0.0	0.0
17841.3	72.5°	8395.6	703.2	71.3	19.0	9.5	0.0	0.0	0.0	0.0	0.0
10510.0	75°	4884.4	351.6	52.3	19.0	9.5	0.0	0.0	0.0	0.0	0.0
2969.6	77.5°	1273.4	175.8	42.8	23.8	14.3	4.8	0.0	0.0	0.0	0.0
541.7	80°	251.8	114.0	38.0	28.5	19.0	9.5	0.0	0.0	0.0	0.0
180.6	82.5°	118.8	80.8	38.0	28.5	23.8	14.3	4.8	0.0	0.0	0.0
80.8	85°	61.8	38.0	38.0	28.5	28.5	19.0	9.5	0.0	0.0	0.0
33.3	87.5°	28.5	14.3	14.3	14.3	14.3	9.5	4.8	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

