

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: P574803

Luminaire Tested: **EPH-VN-03-730-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

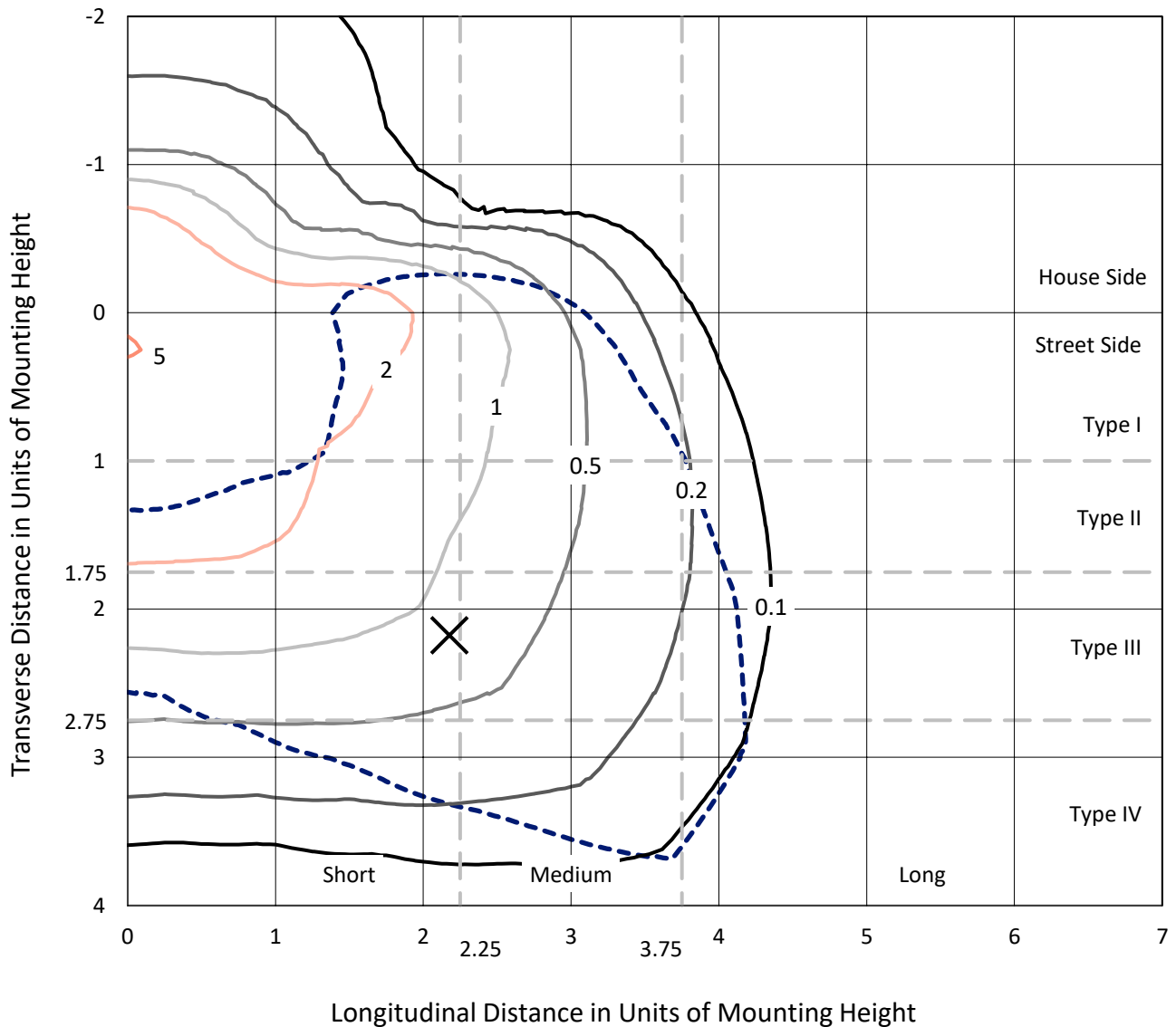
Lumens per Lamp: N/A
Luminaire Lumens: 24826.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

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Iso-Footcandle Lines of Horizontal Illumination

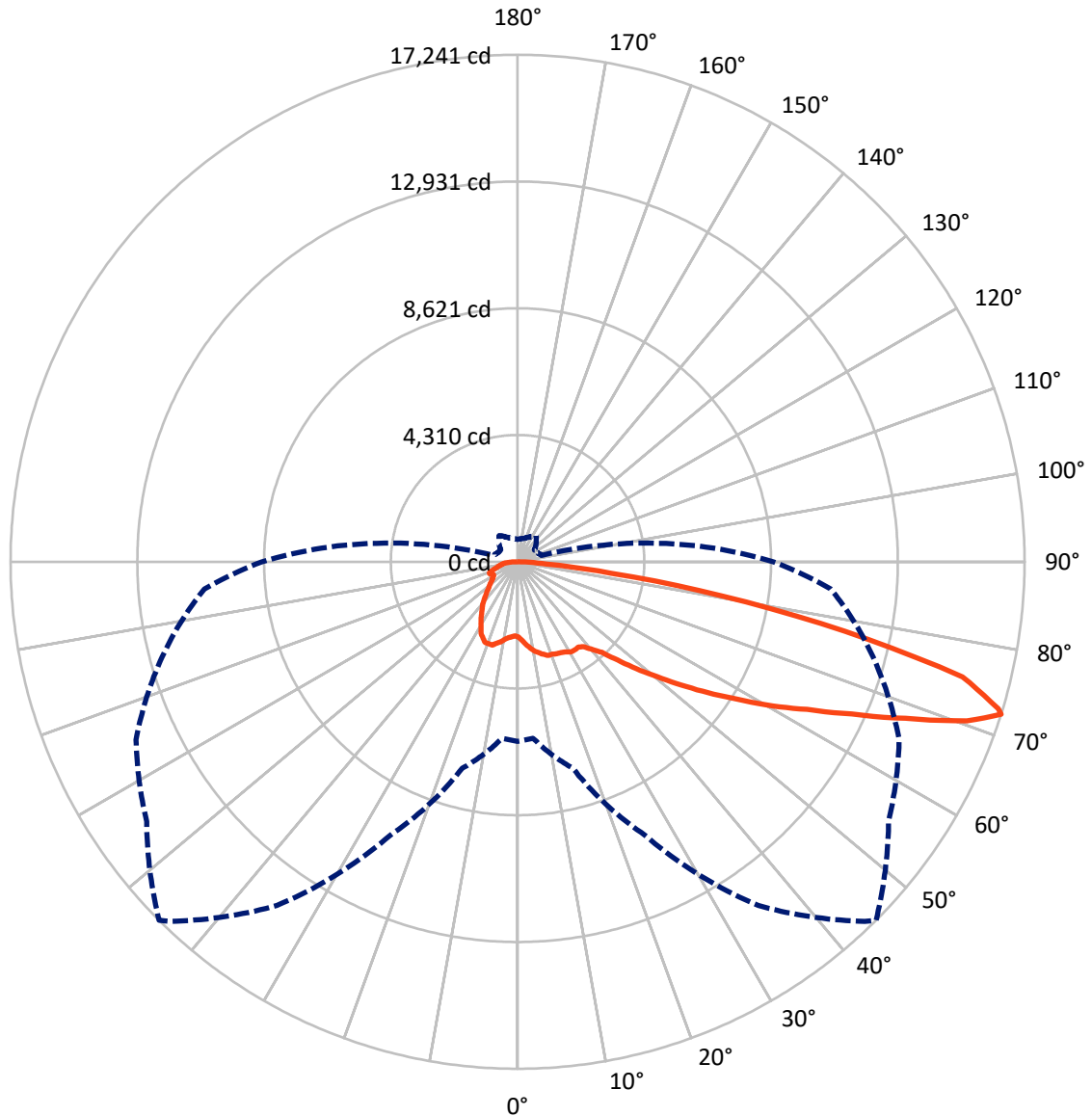
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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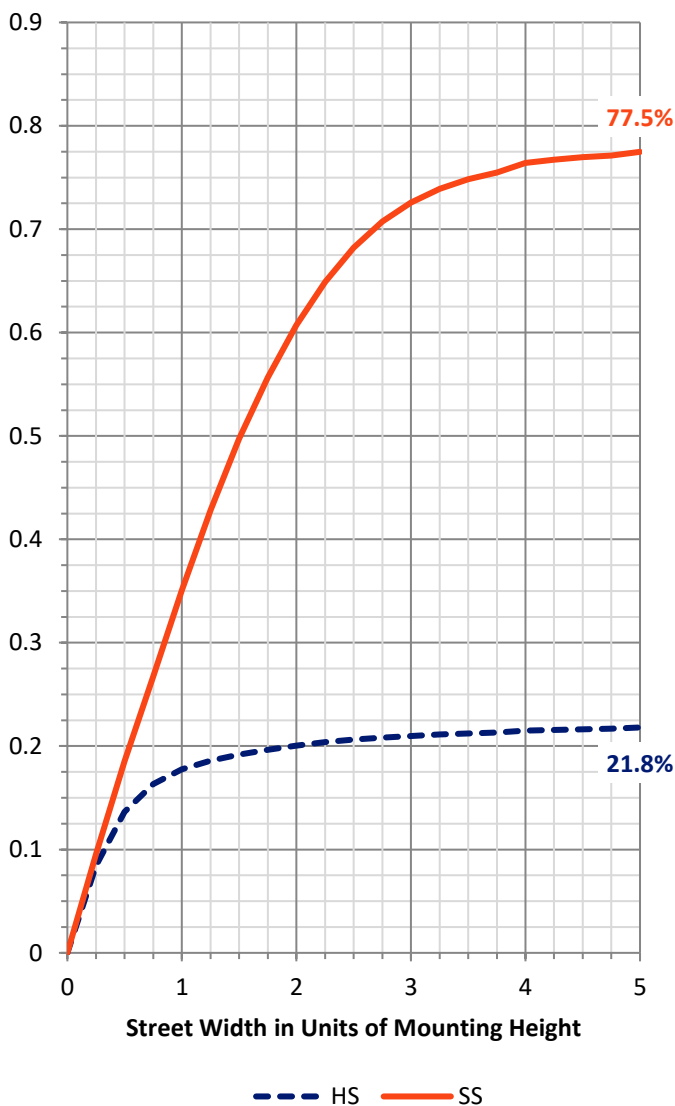
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.6	0.0	5526.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19300.1	0.0	19300.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	24826.7	0.0	24826.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.1
10°-20°	870.4	3.5
20°-30°	1469.9	5.9
30°-40°	2034.1	8.2
40°-50°	2909.6	11.7
50°-60°	4692.9	18.9
60°-70°	6921.3	27.9
70°-80°	5026.1	20.2
80°-90°	640.7	2.6
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°	24826.7	100.0
0°-180°	24826.7	100.0

Coefficient of Utilization



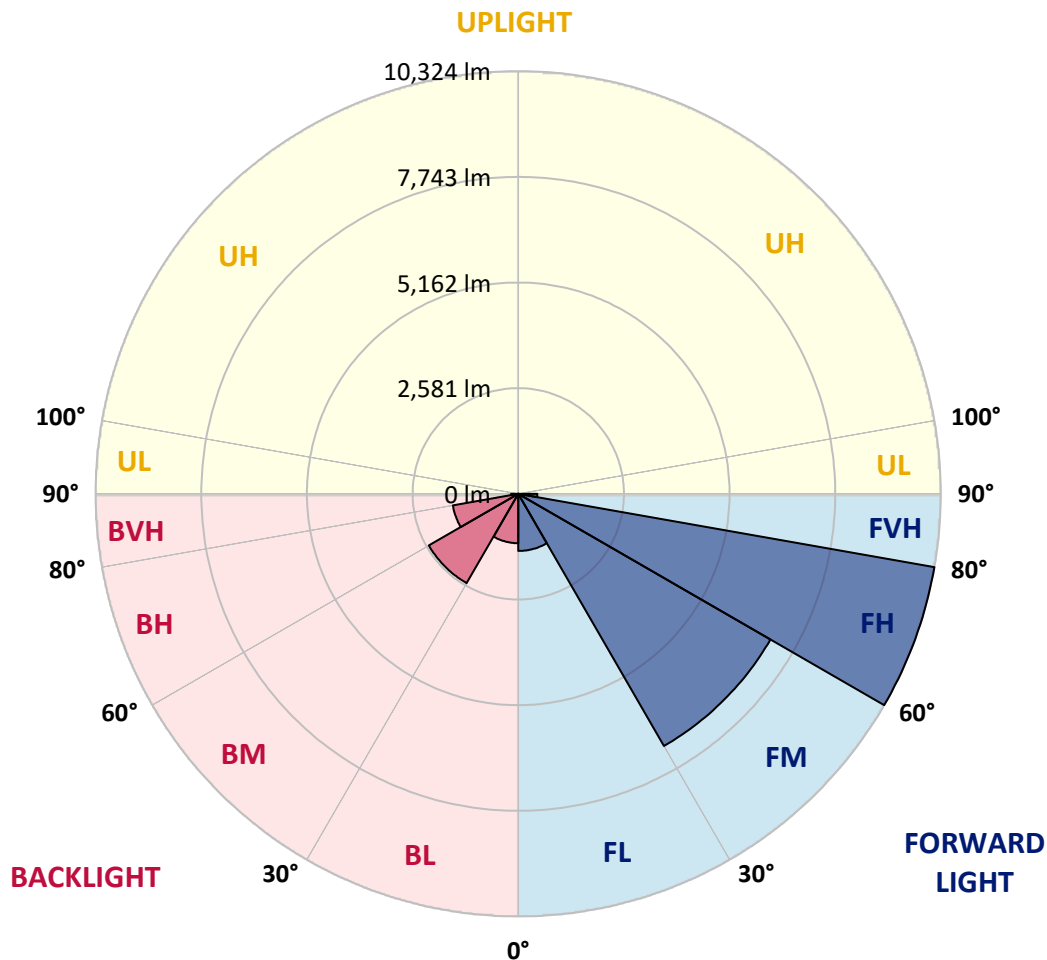
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.3	5.6			
FM (30°-60°)	7114.5	28.7			
FH (60°-80°)	10324.1	41.6			G4/12000
FVH (80°-90°)	466.3	1.9			G3/500
BL (0°-30°)	1206.7	4.9	B3/2500		
BM (30°-60°)	2522.2	10.2	B3/5000		
BH (60°-80°)	1623.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	174.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7
2.5°	2693.2	2709.3	2693.2	2690.6	2663.8	2645.0	2661.1	2637.0	2610.2	2599.5
5°	2939.5	2942.2	2912.8	2915.4	2859.2	2800.3	2811.0	2738.7	2661.1	2631.7
7.5°	3191.2	3161.7	3118.9	3105.5	3017.2	2952.9	2944.9	2880.6	2760.2	2693.2
10°	3354.5	3365.2	3295.6	3236.7	3161.7	3084.1	3081.4	2961.0	2891.3	2792.3
12.5°	3499.1	3501.7	3442.8	3349.1	3255.4	3159.1	3172.5	3118.9	3001.1	2907.4
15°	3611.5	3595.4	3531.2	3445.5	3346.5	3271.5	3263.5	3218.0	3118.9	3041.3
17.5°	3643.6	3635.6	3571.3	3480.3	3383.9	3327.7	3349.1	3274.2	3234.0	3164.4
20°	3582.1	3563.3	3552.6	3450.9	3381.3	3375.9	3357.2	3373.2	3306.3	3242.1
22.5°	3469.6	3461.6	3456.2	3375.9	3343.8	3367.9	3400.0	3424.1	3413.4	3351.8
25°	3354.5	3392.0	3357.2	3319.7	3365.2	3426.8	3418.8	3496.4	3496.4	3477.6
27.5°	3434.8	3410.7	3383.9	3365.2	3381.3	3477.6	3472.3	3566.0	3600.8	3566.0
30°	3635.6	3611.5	3533.9	3450.9	3429.5	3533.9	3560.6	3643.6	3659.7	3574.0
32.5°	4013.1	3999.7	3876.5	3632.9	3501.7	3560.6	3574.0	3667.7	3654.3	3600.8
35°	4572.6	4527.1	4355.8	3943.5	3654.3	3595.4	3560.6	3635.6	3686.5	3659.7
37.5°	5185.7	5134.8	4923.3	4401.3	3930.1	3689.1	3662.4	3723.9	3782.8	3769.5
40°	5772.0	5772.0	5581.9	4974.2	4339.7	3916.7	3922.1	3852.5	3906.0	3881.9
42.5°	6350.3	6328.8	6251.2	5646.2	4778.8	4296.9	4211.2	4037.2	4133.6	4125.5
45°	6936.6	6920.5	6899.1	6272.6	5407.9	4810.9	4765.4	4452.1	4540.5	4503.0
47.5°	7405.1	7423.8	7423.8	6971.4	6079.9	5496.2	5429.3	4934.0	5102.7	5121.4
50°	7804.0	7812.0	7804.0	7638.0	6829.5	6280.6	6144.1	5640.8	5809.5	5956.7
52.5°	8355.5	8366.2	8328.7	8264.4	7846.8	7105.2	6952.6	6393.1	6738.4	6893.7
55°	9035.5	8955.1	8885.5	8933.7	8824.0	8012.8	7854.8	7169.5	7688.8	7895.0
57.5°	9161.3	9230.9	9407.6	9790.4	9948.4	8896.2	8805.2	8122.5	8762.4	8941.8
60°	9605.7	9490.6	9924.3	10754.2	10930.9	10047.4	9953.7	9166.6	9830.6	10018.0
62.5°	9897.5	9892.2	10534.7	11519.9	11921.5	11241.5	11051.4	10524.0	10984.4	11166.5
65°	9811.8	9889.5	11030.0	11969.6	12748.7	12598.8	12489.0	11691.2	12298.9	12282.9
67.5°	9030.1	9249.6	10716.7	12293.6	13980.2	14253.3	14218.5	13332.3	13367.1	13027.1
70°	7945.9	7870.9	9391.5	11956.3	14596.0	16215.6	16207.6	14553.1	14328.2	13190.4
72°	6104.0	6021.0	7271.2	10267.0	14272.0	17000.1	17241.0	15399.1	14317.5	12513.1
72.5°	5541.7	5469.5	6714.4	9664.6	13913.3	17203.5	17091.1	15431.2	14205.1	12194.5
75°	2551.3	2468.4	3354.5	5916.6	10853.3	15243.8	15626.7	14440.7	12406.0	9707.4
77.5°	760.3	736.2	1078.9	2388.0	6307.4	11230.7	11378.0	10896.1	8660.7	5316.9
80°	423.0	425.7	556.9	894.2	2773.6	6492.1	7022.2	6730.4	4248.7	1756.2
82.5°	235.6	249.0	348.0	530.1	1274.3	2979.7	3207.3	3092.1	1536.7	824.6
85°	123.1	128.5	182.0	283.8	722.8	942.4	969.1	1038.7	797.8	562.2
87.5°	48.2	48.2	66.9	117.8	267.7	291.8	262.4	318.6	457.8	364.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2556.7	0°	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7	2556.7
2575.4	2.5°	2596.9	2575.4	2572.8	2538.0	2548.7	2519.2	2521.9	2516.5	2519.2	2513.9
2583.5	5°	2583.5	2567.4	2521.9	2551.3	2524.6	2562.1	2591.5	2580.8	2588.8	2586.1
2626.3	7.5°	2602.2	2580.8	2575.4	2559.4	2583.5	2599.5	2623.6	2690.6	2685.2	2693.2
2706.6	10°	2658.4	2634.3	2618.3	2642.4	2629.0	2679.9	2706.6	2741.4	2803.0	2805.7
2821.7	12.5°	2768.2	2752.1	2720.0	2725.4	2770.9	2786.9	2803.0	2824.4	2864.6	2856.5
2899.4	15°	2894.0	2859.2	2840.5	2835.1	2845.8	2864.6	2861.9	2883.3	2904.7	2923.5
3027.9	17.5°	2985.0	2939.5	2944.9	2971.7	2969.0	2963.6	2928.8	2918.1	2928.8	2939.5
3143.0	20°	3078.7	3084.1	3043.9	3019.9	3009.1	2955.6	2928.8	2896.7	2864.6	2880.6
3239.4	22.5°	3196.5	3172.5	3113.6	3041.3	2987.7	2955.6	2872.6	2816.4	2816.4	2832.4
3383.9	25°	3330.4	3279.5	3177.8	3046.6	2979.7	2843.2	2784.3	2776.2	2754.8	2778.9
3458.9	27.5°	3434.8	3389.3	3250.1	3027.9	2843.2	2733.4	2698.6	2687.9	2722.7	2725.4
3483.0	30°	3477.6	3464.3	3260.8	2979.7	2703.9	2527.3	2505.8	2554.0	2591.5	2647.7
3563.3	32.5°	3533.9	3539.2	3276.9	2867.3	2521.9	2345.2	2313.1	2372.0	2479.1	2524.6
3624.9	35°	3627.6	3654.3	3263.5	2728.0	2329.1	2160.5	2155.1	2171.2	2275.6	2355.9
3697.2	37.5°	3790.9	3785.5	3260.8	2562.1	2176.5	1999.8	1957.0	1962.4	2032.0	2098.9
3895.3	40°	4010.4	3989.0	3252.8	2345.2	1978.4	1863.3	1791.0	1764.3	1758.9	1740.2
4144.3	42.5°	4310.2	4267.4	3250.1	2125.7	1799.1	1675.9	1625.0	1555.4	1504.6	1408.2
4583.3	45°	4727.9	4652.9	3180.5	1919.5	1622.4	1520.6	1443.0	1392.1	1282.4	1161.9
5140.2	47.5°	5373.1	5129.5	3183.2	1692.0	1451.0	1368.0	1314.5	1226.1	1108.3	1012.0
6128.1	50°	6323.5	5766.6	3092.1	1512.6	1311.8	1255.6	1199.4	1097.6	985.2	918.3
7201.6	52.5°	7549.6	6717.0	3089.5	1352.0	1202.1	1161.9	1100.3	1009.3	926.3	883.5
8510.7	55°	9011.4	7975.3	3185.8	1220.8	1089.6	1068.2	1041.4	966.5	886.1	848.7
9969.8	57.5°	10507.9	9204.1	3341.1	1127.1	993.2	1009.3	990.6	931.7	867.4	824.6
11316.4	60°	11838.5	10178.6	3027.9	1014.6	907.6	942.4	969.1	918.3	883.5	880.8
12783.5	62.5°	12842.4	10596.3	2302.4	929.0	862.0	926.3	998.6	1030.7	1014.6	1036.1
13739.3	65°	13209.2	10344.6	1584.9	883.5	827.2	963.8	1124.4	1113.7	1020.0	979.8
14164.9	67.5°	12695.2	9324.6	1175.3	829.9	803.2	1041.4	1196.7	1062.8	920.9	915.6
12944.1	70°	10917.5	7903.0	958.4	773.7	763.0	998.6	1164.6	985.2	867.4	832.6
10692.6	72°	8698.1	6154.8	840.6	733.5	698.7	891.5	1089.6	923.6	821.9	779.1
9988.5	72.5°	7940.5	5705.1	824.6	714.8	685.4	867.4	1052.1	904.9	811.2	773.7
5983.5	75°	4355.8	2920.8	725.5	655.9	578.3	749.6	974.5	848.7	765.7	712.1
2219.4	77.5°	1619.7	1132.4	626.5	580.9	500.6	647.9	886.1	805.8	696.1	629.1
738.9	80°	621.1	597.0	511.3	489.9	420.3	567.6	816.5	722.8	591.7	524.7
404.3	82.5°	377.5	348.0	388.2	382.8	321.3	516.7	768.3	677.3	524.7	425.7
216.9	85°	206.1	206.1	270.4	259.7	224.9	412.3	580.9	449.8	332.0	273.1
107.1	87.5°	91.0	107.1	144.6	136.5	123.1	232.9	283.8	238.3	166.0	112.4
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



180°
2556.7
2500.5
2588.8
2709.3
2773.6
2886.0
2915.4
2934.2
2904.7
2824.4
2789.6
2768.2
2650.4
2559.4
2401.4
2090.9
1745.5
1413.5
1161.9
1001.3
926.3
867.4
846.0
819.2
862.0
1038.7
1001.3
899.5
816.5
760.3
744.3
706.8
615.7
503.3
412.3
278.4
120.5
0.0

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