

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: P574883

Luminaire Tested: **EPH-VN-03-730-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574883
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-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

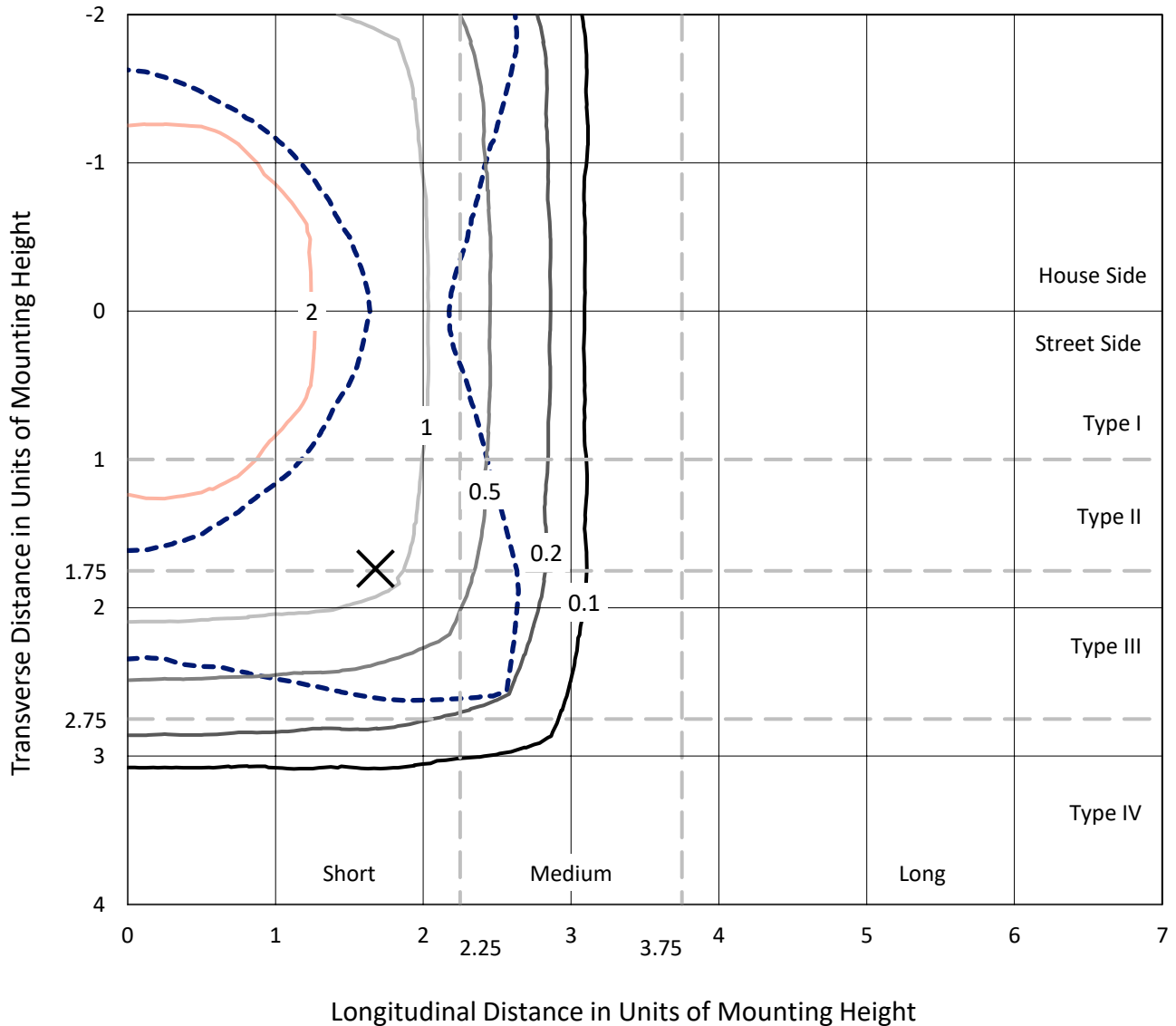
Lumens per Lamp: N/A
Luminaire Lumens: 24793 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

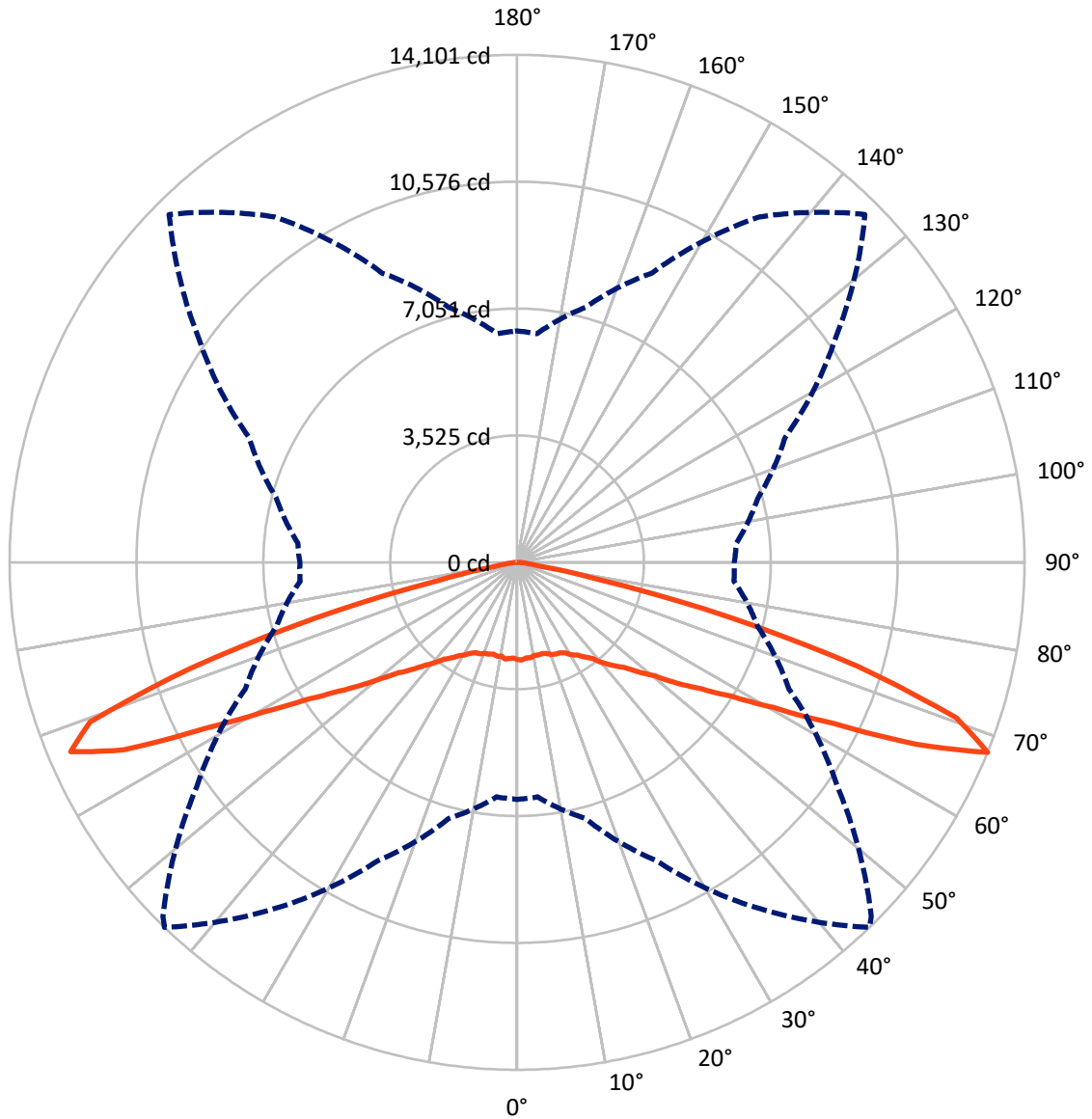
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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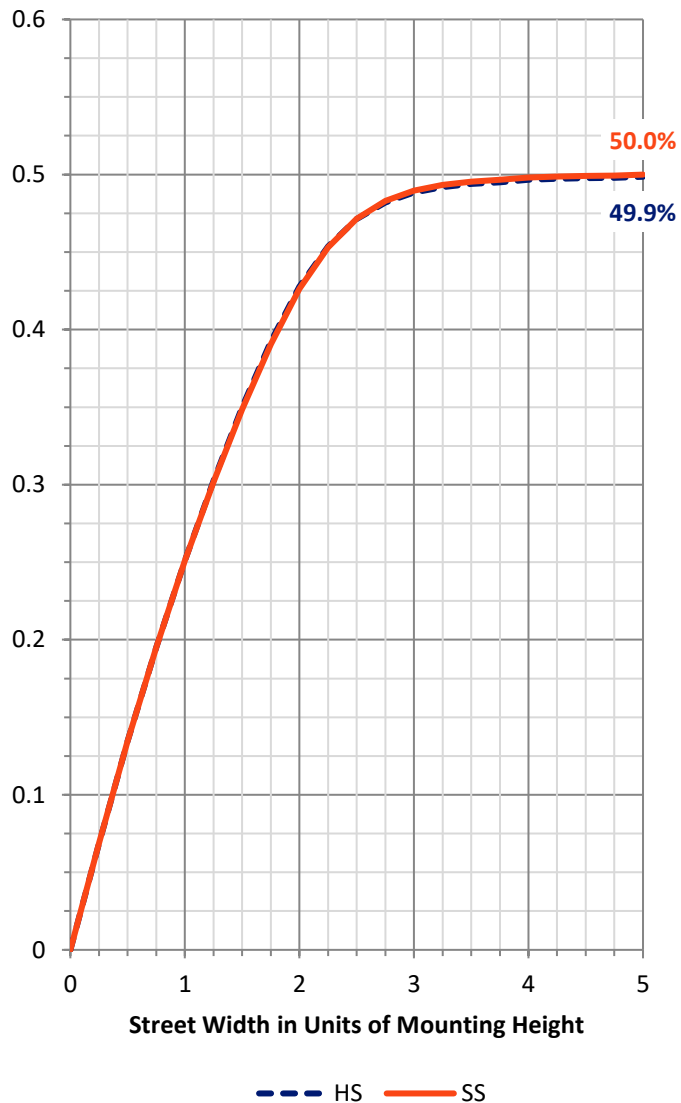
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12364.8	0.0	12364.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12428.3	0.0	12428.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	24793.0	0.0	24793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.0
10°-20°	748.7	3.0
20°-30°	1273.2	5.1
30°-40°	2018.7	8.1
40°-50°	3291.7	13.3
50°-60°	5621.8	22.7
60°-70°	8550.7	34.5
70°-80°	2882.1	11.6
80°-90°	149.6	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°	24793.0	100.0
0°-180°	24793.0	100.0

Coefficient of Utilization



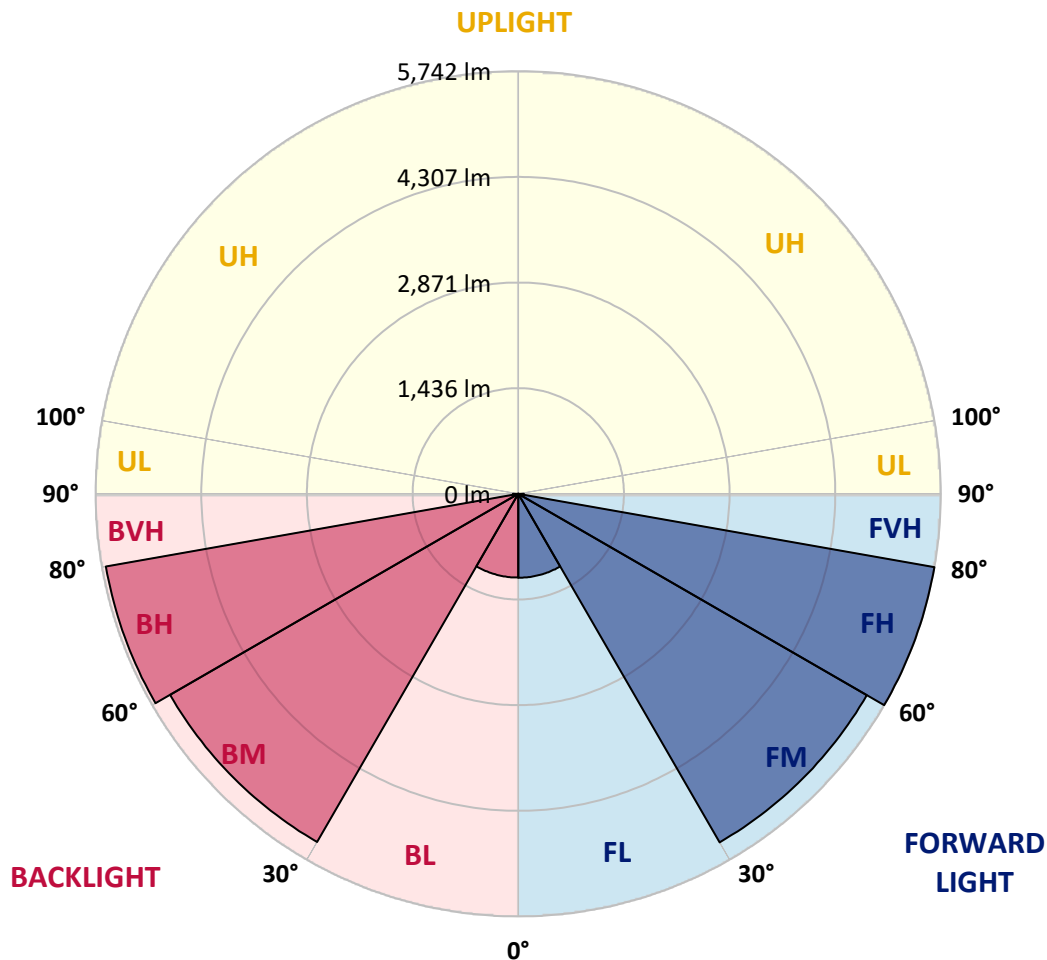
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.3	4.6			
FM (30°-60°)	5469.1	22.1			
FH (60°-80°)	5742.3	23.2			G3/7500
FVH (80°-90°)	76.5	0.3			G1/100
BL (0°-30°)	1137.9	4.6	B3/2500		
BM (30°-60°)	5463.2	22.0	B4/8500		
BH (60°-80°)	5690.6	23.0	B5		G3/7500
BVH (80°-90°)	73.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2
2.5°	2646.0	2677.1	2699.7	2696.9	2705.4	2713.9	2702.6	2719.5	2708.2	2728.0
5°	2696.9	2688.4	2691.2	2674.3	2713.9	2668.6	2668.6	2691.2	2719.5	2685.6
7.5°	2665.8	2660.1	2646.0	2671.4	2679.9	2679.9	2702.6	2660.1	2708.2	2719.5
10°	2631.8	2600.7	2643.1	2668.6	2674.3	2629.0	2648.8	2660.1	2646.0	2660.1
12.5°	2603.5	2620.5	2620.5	2620.5	2612.0	2643.1	2662.9	2660.1	2631.8	2657.3
15°	2600.7	2592.2	2617.7	2640.3	2626.1	2631.8	2640.3	2665.8	2612.0	2623.3
17.5°	2597.8	2609.2	2617.7	2614.8	2662.9	2662.9	2654.4	2637.5	2679.9	2657.3
20°	2609.2	2600.7	2623.3	2631.8	2665.8	2733.7	2708.2	2694.1	2671.4	2643.1
22.5°	2623.3	2617.7	2648.8	2685.6	2750.7	2767.6	2764.8	2747.8	2708.2	2674.3
25°	2674.3	2623.3	2657.3	2728.0	2750.7	2784.6	2807.3	2784.6	2730.8	2739.3
27.5°	2750.7	2742.2	2787.4	2835.6	2815.7	2846.9	2827.1	2844.0	2846.9	2804.4
30°	2841.2	2815.7	2844.0	2937.4	2945.9	2979.9	2945.9	2900.6	2914.8	2878.0
32.5°	2971.4	2962.9	3016.7	3078.9	3090.2	3073.3	3056.3	3081.8	3022.3	2994.0
35°	3056.3	3093.1	3158.2	3206.3	3243.1	3226.1	3234.6	3209.1	3223.3	3163.8
37.5°	3308.1	3294.0	3308.1	3390.2	3398.7	3390.2	3398.7	3427.0	3407.2	3356.3
40°	3545.9	3523.2	3557.2	3650.6	3644.9	3673.2	3616.6	3647.7	3647.7	3551.5
42.5°	3724.1	3800.6	3840.2	3916.6	3944.9	3919.4	3908.1	3913.7	3976.0	3862.8
45°	4092.0	4089.2	4208.1	4250.5	4171.3	4165.6	4143.0	4210.9	4253.3	4188.2
47.5°	4491.0	4510.9	4578.8	4595.8	4643.9	4556.1	4556.1	4564.6	4714.6	4561.8
50°	4850.4	4875.9	5011.7	5144.8	5054.2	4960.8	4997.6	5042.9	5124.9	4980.6
52.5°	5286.2	5424.9	5515.5	5586.2	5651.3	5586.2	5501.3	5552.3	5713.6	5521.1
55°	5914.5	6024.8	6109.7	6239.9	6293.7	6206.0	6197.5	6191.8	6282.4	6078.6
57.5°	6616.3	6571.0	6706.9	6907.8	7103.0	7018.1	6992.7	6998.3	7021.0	6732.3
60°	7487.9	7538.8	7700.1	7875.6	8082.2	8201.0	8034.1	7937.9	7957.7	7564.3
62.5°	7986.0	8099.2	8464.2	9067.0	9483.0	9853.7	9879.2	9253.8	8834.9	8070.9
65°	7745.4	7728.4	8416.1	9531.1	11107.3	12185.5	12024.2	10507.4	9044.3	7830.3
67.5°	6588.0	6542.7	7374.7	9143.4	11746.9	14101.4	13917.4	10861.1	8336.9	6927.6
70°	4244.8	4233.5	5136.3	6970.0	10487.6	12946.8	13014.7	9865.0	6786.1	5074.0
72.5°	1542.3	1635.7	2159.2	3746.8	7122.8	9904.6	9947.1	7304.0	3902.4	2346.0
75°	568.8	585.8	682.0	1216.9	3245.9	6081.4	6239.9	3543.0	1386.6	764.1
77.5°	328.3	331.1	365.1	452.8	962.2	2374.3	2470.5	1075.4	537.7	407.5
80°	223.6	220.7	257.5	294.3	384.9	673.5	716.0	450.0	339.6	283.0
82.5°	130.2	138.7	189.6	209.4	234.9	297.1	302.8	280.2	254.7	209.4
85°	79.2	65.1	104.7	116.0	135.8	133.0	133.0	152.8	164.1	147.2
87.5°	19.8	19.8	25.5	28.3	36.8	28.3	31.1	59.4	79.2	73.6
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°
2708.2	0°	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2
2739.3	2.5°	2713.9	2705.4	2711.0	2742.2	2722.4	2662.9	2677.1	2708.2	2682.7	2668.6
2705.4	5°	2702.6	2719.5	2699.7	2705.4	2725.2	2677.1	2685.6	2725.2	2708.2	2713.9
2722.4	7.5°	2705.4	2713.9	2696.9	2671.4	2671.4	2711.0	2688.4	2694.1	2668.6	2711.0
2668.6	10°	2688.4	2665.8	2646.0	2660.1	2654.4	2643.1	2634.6	2651.6	2626.1	2662.9
2612.0	12.5°	2637.5	2643.1	2637.5	2631.8	2643.1	2671.4	2626.1	2631.8	2592.2	2597.8
2623.3	15°	2617.7	2634.6	2629.0	2660.1	2674.3	2631.8	2665.8	2631.8	2600.7	2583.7
2626.1	17.5°	2626.1	2651.6	2643.1	2665.8	2640.3	2671.4	2677.1	2662.9	2626.1	2612.0
2643.1	20°	2634.6	2626.1	2637.5	2677.1	2713.9	2682.7	2682.7	2674.3	2640.3	2620.5
2668.6	22.5°	2654.4	2640.3	2657.3	2688.4	2699.7	2747.8	2705.4	2685.6	2629.0	2578.0
2688.4	25°	2694.1	2702.6	2713.9	2702.6	2764.8	2759.1	2753.5	2739.3	2651.6	2654.4
2753.5	27.5°	2770.5	2722.4	2736.5	2804.4	2812.9	2835.6	2807.3	2832.7	2739.3	2742.2
2852.5	30°	2863.9	2812.9	2858.2	2917.6	2914.8	2957.2	2943.1	2948.8	2883.7	2846.9
2948.8	32.5°	2965.7	2960.1	2988.4	3025.2	3039.3	3061.9	3059.1	3059.1	3019.5	2923.3
3144.0	35°	3078.9	3118.5	3152.5	3192.1	3197.8	3226.1	3186.5	3192.1	3152.5	3081.8
3305.3	37.5°	3302.5	3299.7	3336.4	3384.6	3390.2	3367.6	3398.7	3384.6	3330.8	3282.7
3531.7	40°	3562.8	3506.2	3540.2	3653.4	3661.9	3622.3	3619.4	3616.6	3577.0	3472.3
3820.4	42.5°	3789.2	3862.8	3857.1	3893.9	3868.5	3848.7	3919.4	3879.8	3848.7	3738.3
4171.3	45°	4080.7	4103.3	4176.9	4295.8	4174.1	4174.1	4222.2	4191.1	4174.1	4092.0
4482.6	47.5°	4442.9	4462.7	4609.9	4618.4	4539.2	4485.4	4635.4	4641.0	4570.3	4508.0
4912.7	50°	4867.4	4875.9	5008.9	5144.8	5057.0	4955.1	5108.0	5167.4	5008.9	4924.0
5436.2	52.5°	5334.4	5308.9	5419.3	5673.9	5589.0	5557.9	5722.0	5736.2	5521.1	5388.1
5962.6	55°	5872.0	5838.1	6138.0	6310.7	6256.9	6200.3	6273.9	6307.8	6135.2	5917.3
6644.6	57.5°	6568.2	6585.2	6735.2	6904.9	6992.7	7006.8	7040.8	7006.8	6831.4	6610.6
7428.5	60°	7264.3	7315.3	7606.8	7926.5	7954.8	8203.9	8158.6	7988.8	7739.8	7425.6
7493.6	62.5°	7521.9	7479.4	7949.2	8730.2	9395.3	9850.9	9649.9	9047.2	8469.9	7898.2
7054.9	65°	7004.0	7108.7	7748.3	8970.8	10414.0	12216.7	11147.0	9480.2	8314.2	7575.6
6050.3	67.5°	6036.2	6115.4	6927.6	8218.0	10779.1	13671.2	11712.9	8868.9	7332.3	6375.8
4205.2	70°	4205.2	4244.8	5040.0	6732.3	9774.5	12901.5	10566.8	6811.6	5062.7	4035.4
1729.1	72.5°	1692.3	1788.5	2312.0	4055.2	7216.2	9802.8	7114.4	3574.2	2099.8	1562.1
622.6	75°	625.4	628.2	738.6	1395.1	3427.0	6160.7	3209.1	1148.9	670.7	549.0
376.4	77.5°	362.2	359.4	384.9	503.7	993.3	2405.4	911.2	450.0	365.1	328.3
237.7	80°	226.4	223.6	263.2	333.9	435.8	659.4	384.9	280.2	246.2	212.2
155.6	82.5°	144.3	147.2	206.6	246.2	266.0	291.5	223.6	198.1	183.9	121.7
87.7	85°	93.4	84.9	144.3	164.1	147.2	130.2	124.5	104.7	96.2	59.4
45.3	87.5°	42.4	45.3	73.6	82.1	53.8	31.1	31.1	22.6	22.6	14.1
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



<u>180°</u>
2708.2
2665.8
2682.7
2654.4
2623.3
2617.7
2614.8
2626.1
2620.5
2626.1
2646.0
2685.6
2770.5
2937.4
3104.4
3245.9
3449.6
3718.5
4015.6
4414.6
4808.0
5419.3
5993.7
6539.9
7439.8
7940.7
7493.6
6426.7
4092.0
1417.8
523.5
314.1
212.2
118.9
65.1
14.1
0.0

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