

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: P575250

Luminaire Tested: **EPH-VN-04-735-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21366.6 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

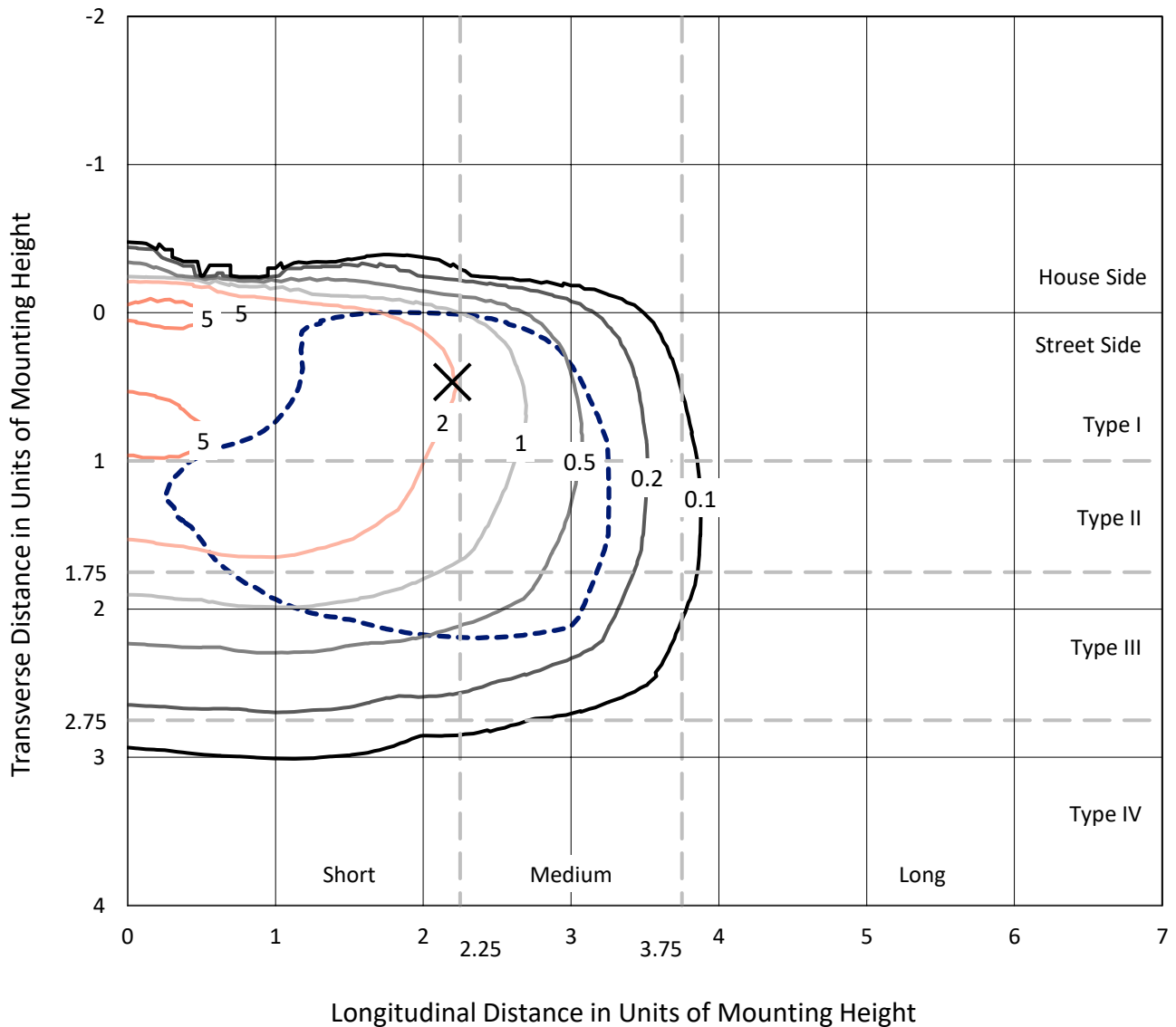
Input Watts (W): 241
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

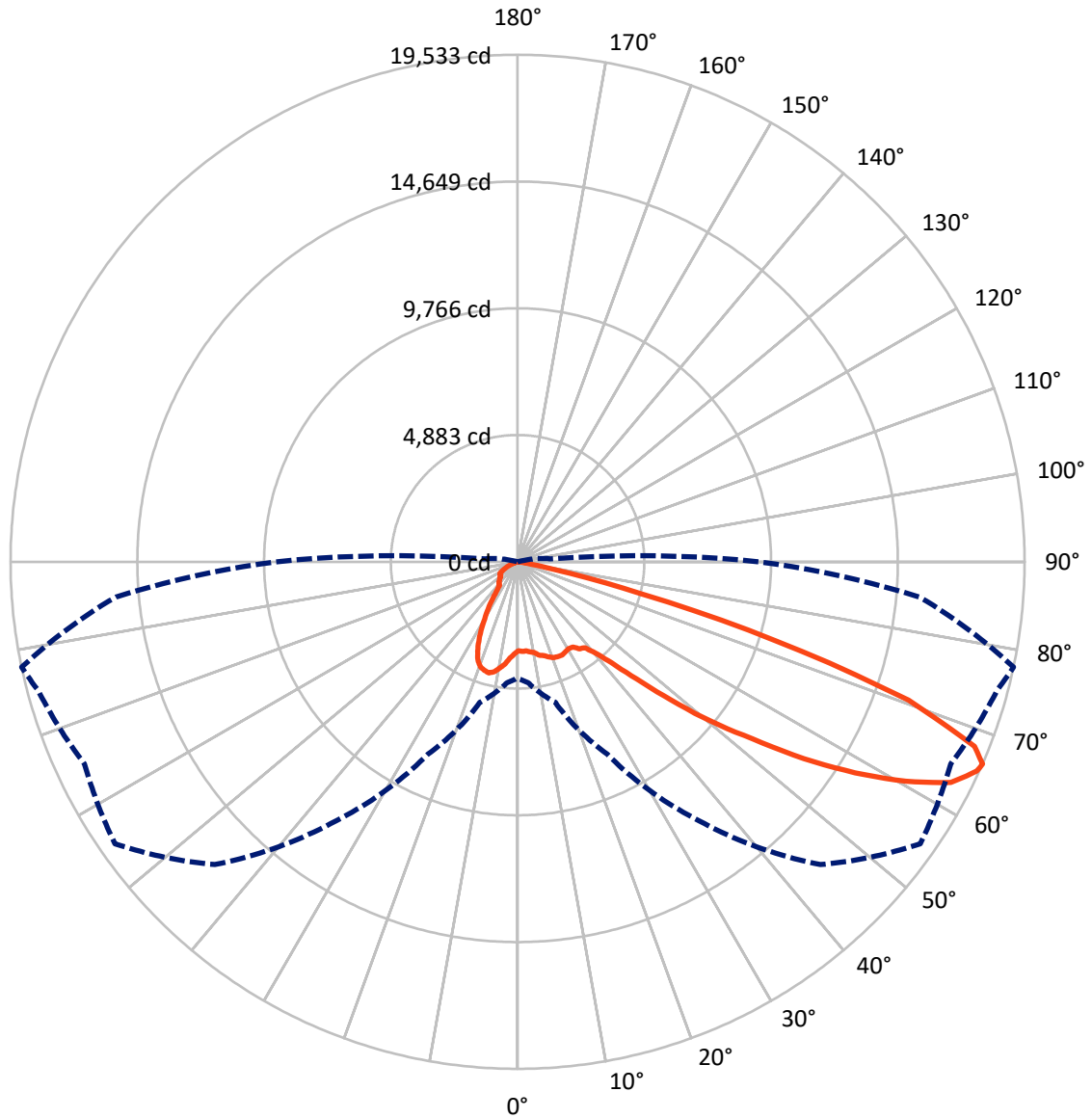
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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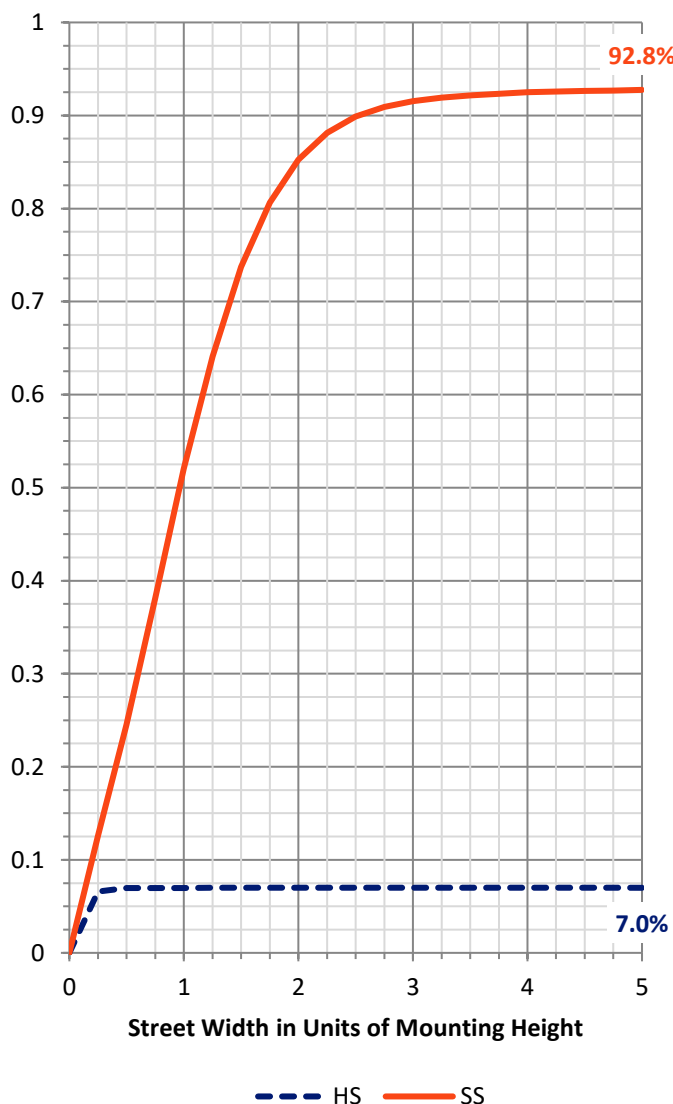
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.2	0.0	1502.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	19864.5	0.0	19864.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	21366.6	0.0	21366.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.5
10°-20°	706.7	3.3
20°-30°	1010.2	4.7
30°-40°	1729.1	8.1
40°-50°	3120.9	14.6
50°-60°	5337.1	25.0
60°-70°	6569.1	30.7
70°-80°	2483.5	11.6
80°-90°	97.0	0.5
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°	21366.6	100.0
0°-180°	21366.6	100.0

Coefficient of Utilization



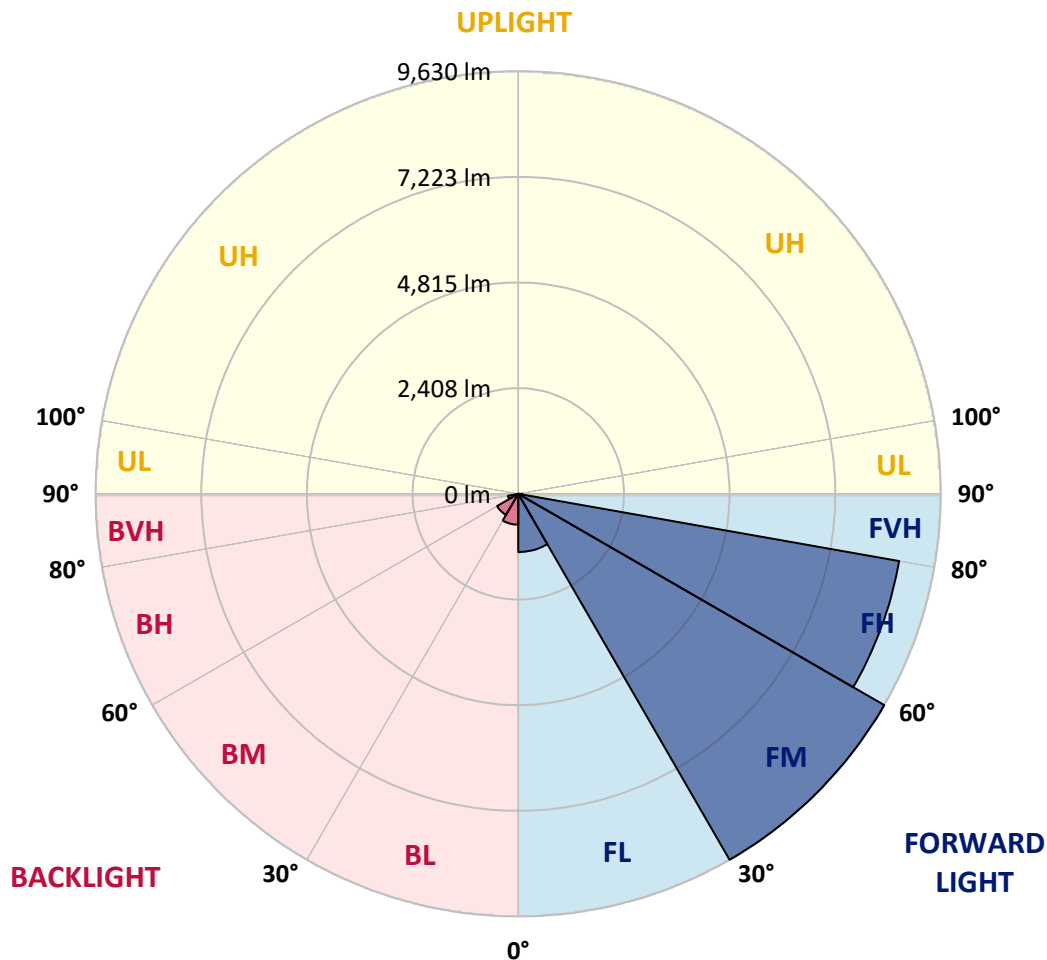
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.5	6.2			
FM (30°-60°)	9630.4	45.1			
FH (60°-80°)	8814.5	41.3			G4/12000
FVH (80°-90°)	93.1	0.4			G1/100
BL (0°-30°)	703.5	3.3	B2/1000		
BM (30°-60°)	556.8	2.6	B1/1000		
BH (60°-80°)	238.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3147.8	3118.8	3147.8	3189.8	3212.4	3231.8	3299.6	3357.7	3419.0	3461.0
5°	2918.6	2973.5	2979.9	2992.8	3028.4	3144.6	3183.3	3283.4	3435.2	3448.1
7.5°	2737.8	2721.7	2763.6	2847.6	2938.0	3005.8	3118.8	3293.1	3451.3	3506.2
10°	2476.3	2508.6	2553.8	2637.7	2747.5	2915.4	3115.5	3309.2	3535.2	3554.6
12.5°	2334.2	2301.9	2373.0	2460.1	2647.4	2802.4	3047.7	3280.2	3586.9	3693.4
15°	2218.0	2234.1	2301.9	2360.1	2515.0	2712.0	2999.3	3351.2	3674.1	3748.3
17.5°	2169.6	2159.9	2211.5	2269.7	2460.1	2682.9	2979.9	3354.4	3751.6	3848.4
20°	2192.2	2211.5	2195.4	2250.3	2369.7	2595.7	3009.0	3415.8	3809.7	3942.0
22.5°	2547.3	2521.5	2392.3	2289.0	2295.5	2560.2	2986.4	3454.5	3861.3	3967.9
25°	3473.9	3335.1	3015.4	2618.3	2356.8	2463.4	2960.6	3441.6	3851.6	3984.0
27.5°	4406.9	4287.5	3974.3	3357.7	2605.4	2424.6	2870.2	3451.3	3803.2	3925.9
30°	5391.6	5456.2	4991.3	4258.4	3257.6	2637.7	2812.1	3399.6	3770.9	3874.2
32.5°	6402.2	6376.3	6095.5	5301.2	4190.6	3109.1	2905.7	3451.3	3812.9	3913.0
35°	7193.2	7102.8	6818.7	6101.9	4962.3	3819.4	3228.5	3696.7	3996.9	4116.4
37.5°	7583.8	7622.6	7457.9	6834.8	5808.1	4478.0	3632.1	3696.7	4055.0	4193.9
40°	7887.3	8003.5	7942.2	7742.0	6647.5	5220.5	4077.6	3925.9	4348.8	4610.3
42.5°	8252.1	8197.2	8558.8	8374.8	7745.2	6156.8	4858.9	4471.5	5043.0	5294.8
45°	8445.8	8655.7	8930.1	9165.8	8762.2	7325.5	5879.2	5436.8	6105.2	6424.8
47.5°	8943.0	9027.0	9472.5	9769.5	9588.7	8662.1	7428.8	6847.7	7441.8	7945.4
50°	9233.6	9120.6	9743.7	10195.7	10299.0	9769.5	8817.1	8365.1	9030.2	9672.7
52.5°	8978.5	9301.4	9924.5	10734.9	11022.2	10757.5	10447.5	10250.6	10718.7	11312.8
55°	8084.2	8303.8	9821.2	11325.7	12252.3	12129.6	12416.9	12287.8	12759.2	13388.7
57.5°	7364.3	7638.7	8972.1	11632.4	13398.4	13760.0	14121.6	14040.9	14609.1	15335.5
60°	6915.5	7073.7	8358.7	11554.9	14076.4	15445.3	16262.1	15693.9	16620.5	17175.8
62.5°	6137.4	6237.5	7464.4	10528.2	14279.8	16636.6	18021.7	17250.0	18053.9	18731.9
65°	4920.3	5191.5	6205.2	8991.5	12936.7	16856.2	19119.4	18212.1	18990.2	19435.8
66°	4478.0	4674.9	5604.7	8177.9	12171.6	16491.3	18935.3	18412.3	19125.8	19532.6
67.5°	3716.0	3887.2	4626.5	7018.8	10605.7	15687.4	19064.5	18276.7	19229.1	18980.5
70°	2460.1	2569.9	3164.0	4745.9	7386.9	12833.4	17682.7	17217.8	16904.6	15971.5
72.5°	1149.4	1307.6	1975.9	2876.6	4332.7	8978.5	14418.6	13795.5	11855.2	10363.6
75°	519.8	590.8	1084.8	1649.8	1943.6	4652.3	9301.4	8400.6	5901.8	4900.9
77.5°	280.9	319.6	529.5	784.5	707.0	1630.4	4603.9	3829.0	1859.6	1362.4
80°	216.3	255.1	442.3	448.8	261.5	422.9	1711.1	1184.9	464.9	351.9
82.5°	113.0	161.4	348.7	290.6	132.4	171.1	529.5	329.3	145.3	116.2
85°	45.2	71.0	196.9	193.7	77.5	58.1	148.5	100.1	58.1	48.4
87.5°	3.2	3.2	106.5	74.3	48.4	16.1	22.6	22.6	29.1	25.8
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°
3422.2	0°	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2
3448.1	2.5°	3506.2	3544.9	3551.4	3657.9	3680.5	3657.9	3716.0	3706.4	3732.2	3712.8
3506.2	5°	3586.9	3641.8	3748.3	3829.0	3829.0	3764.5	3712.8	3645.0	3544.9	3519.1
3619.2	7.5°	3725.7	3900.1	3996.9	3945.3	3842.0	3599.8	3264.0	3018.7	2812.1	2734.6
3764.5	10°	3971.1	4067.9	4180.9	3971.1	3541.7	3028.4	2463.4	2092.1	1801.5	1736.9
3935.6	12.5°	4129.3	4284.3	4348.8	3829.0	2986.4	2221.2	1607.8	1188.1	984.7	829.7
4116.4	15°	4335.9	4513.5	4381.1	3444.8	2353.6	1456.1	833.0	519.8	422.9	397.1
4239.1	17.5°	4478.0	4671.7	4248.7	2967.0	1669.2	774.8	413.3	358.4	351.9	355.1
4371.4	20°	4726.6	4842.8	4048.6	2411.7	997.6	397.1	332.5	319.6	313.2	322.9
4461.8	22.5°	4820.2	4926.7	3722.5	1746.6	448.8	264.7	248.6	238.9	245.4	242.1
4516.7	25°	4813.7	4868.6	3186.6	1000.8	132.4	103.3	93.6	93.6	87.2	90.4
4426.3	27.5°	4862.2	4726.6	2586.1	297.0	0.0	0.0	0.0	0.0	0.0	0.0
4445.7	30°	4888.0	4497.3	1840.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4558.7	32.5°	4900.9	4377.9	1184.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4720.1	35°	5001.0	4139.0	506.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4981.6	37.5°	5068.8	3832.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5472.4	40°	5349.7	3735.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6208.5	42.5°	5714.5	3554.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7302.9	45°	6221.4	3286.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8555.6	47.5°	6892.9	3128.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9727.6	50°	7393.3	2879.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11048.0	52.5°	8029.4	2731.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12591.3	55°	8784.8	2737.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13898.8	57.5°	9472.5	2692.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14922.3	60°	9824.4	2301.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15658.4	62.5°	9750.2	1862.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15881.1	65°	9491.9	1462.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15538.9	66°	9314.3	1294.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15080.5	67.5°	8775.1	1036.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11790.6	70°	6983.3	710.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7438.5	72.5°	4442.5	435.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3257.6	75°	2046.9	200.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
946.0	77.5°	642.5	122.7	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
226.0	80°	167.9	77.5	25.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
96.9	82.5°	87.2	54.9	22.6	9.7	6.5	0.0	0.0	0.0	0.0	0.0
45.2	85°	54.9	22.6	9.7	6.5	6.5	0.0	0.0	0.0	0.0	0.0
32.3	87.5°	48.4	12.9	6.5	6.5	3.2	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

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