

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: P574901

Luminaire Tested: **EPH-VN-03-750-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

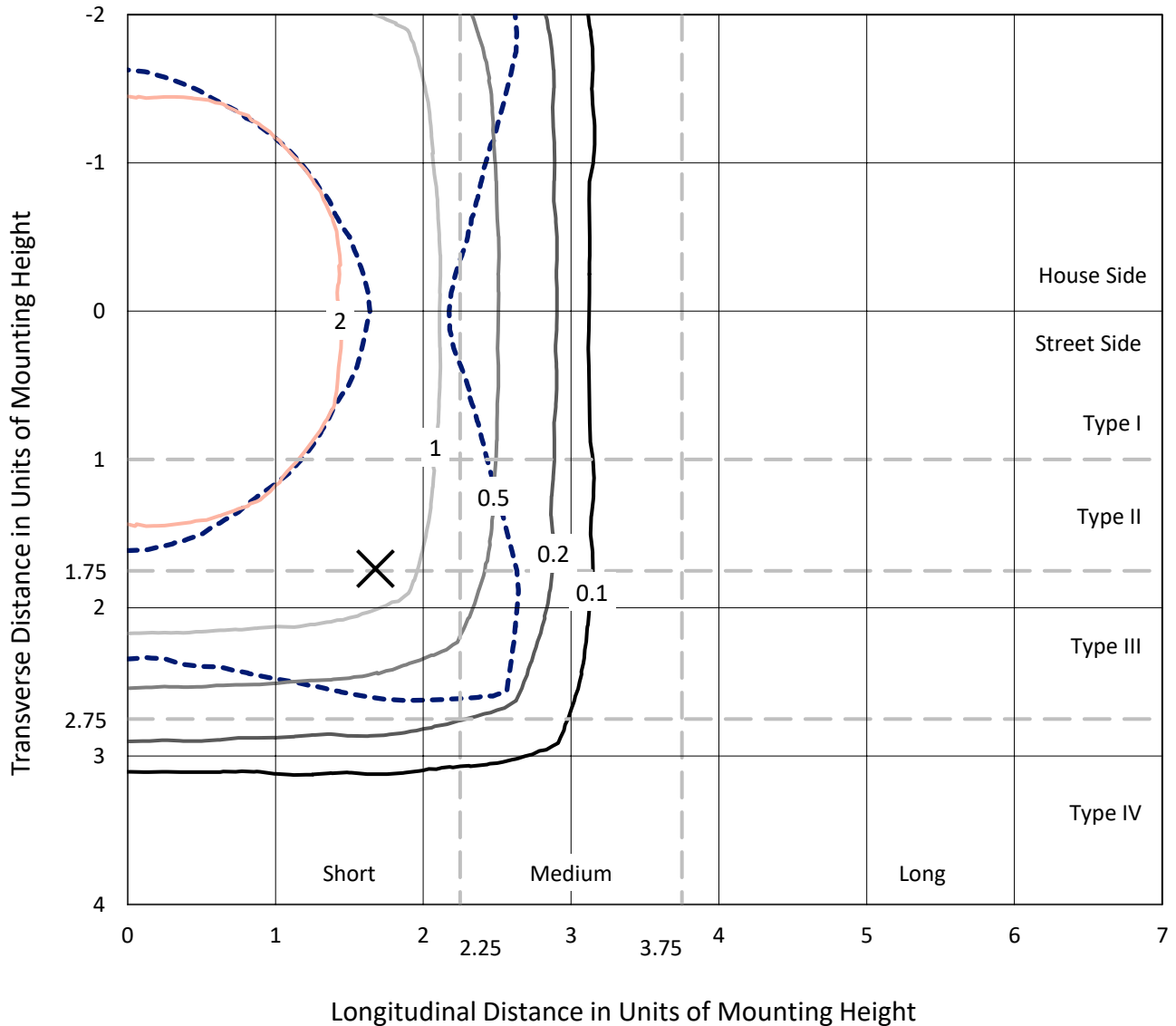
Lumens per Lamp: N/A
Luminaire Lumens: 27850.6 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

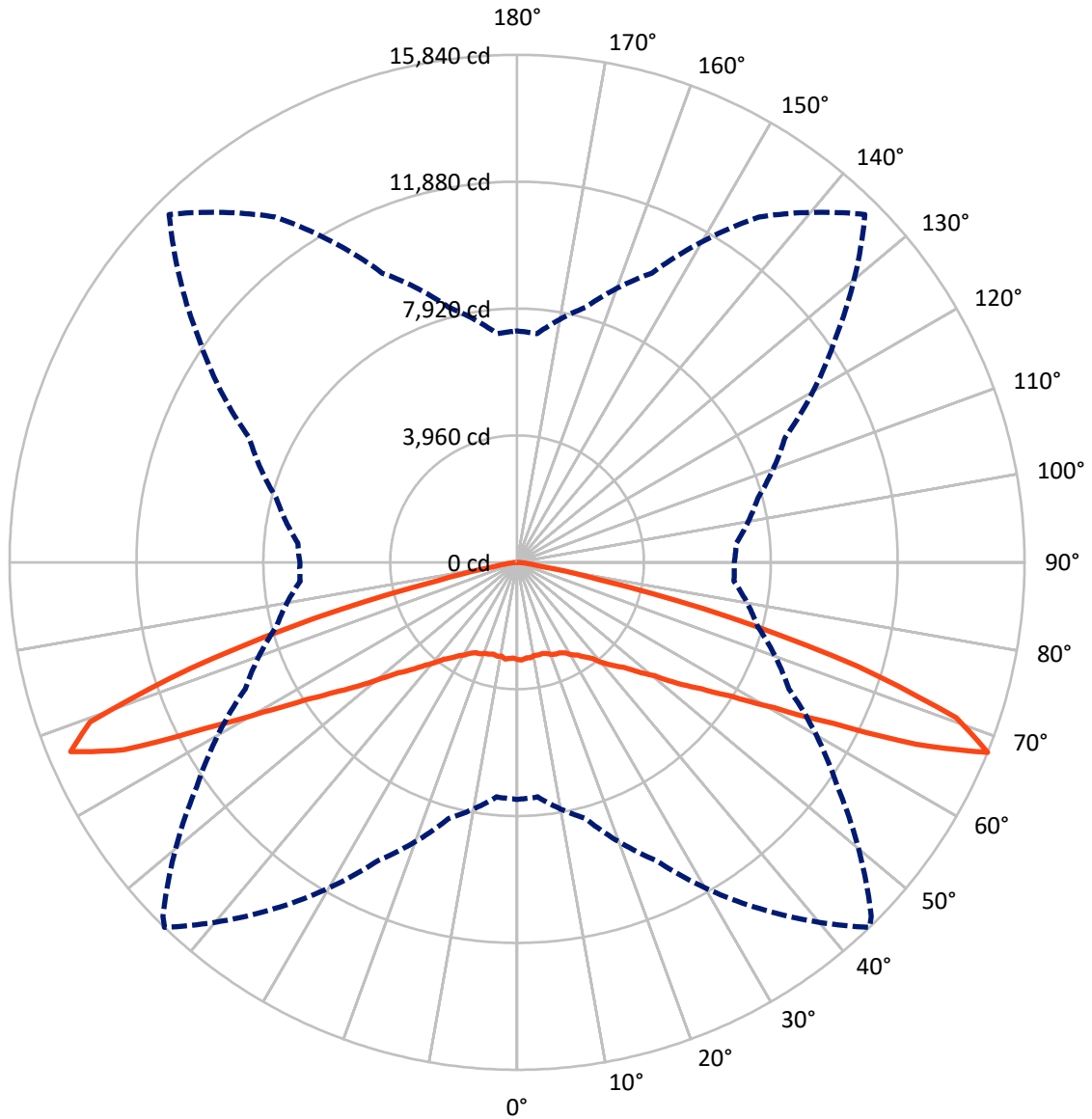
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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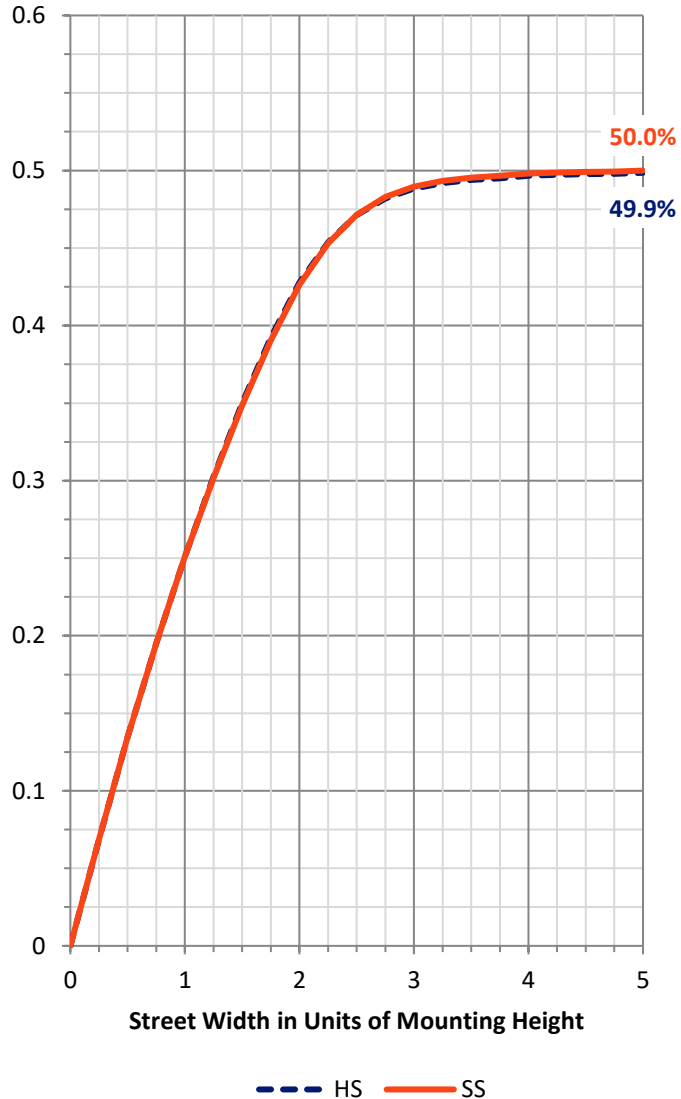
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13889.7	0.0	13889.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13961.0	0.0	13961.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	27850.6	0.0	27850.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	1.0
10°-20°	841.0	3.0
20°-30°	1430.2	5.1
30°-40°	2267.7	8.1
40°-50°	3697.7	13.3
50°-60°	6315.1	22.7
60°-70°	9605.3	34.5
70°-80°	3237.6	11.6
80°-90°	168.1	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°	27850.6	100.0
0°-180°	27850.6	100.0

Coefficient of Utilization

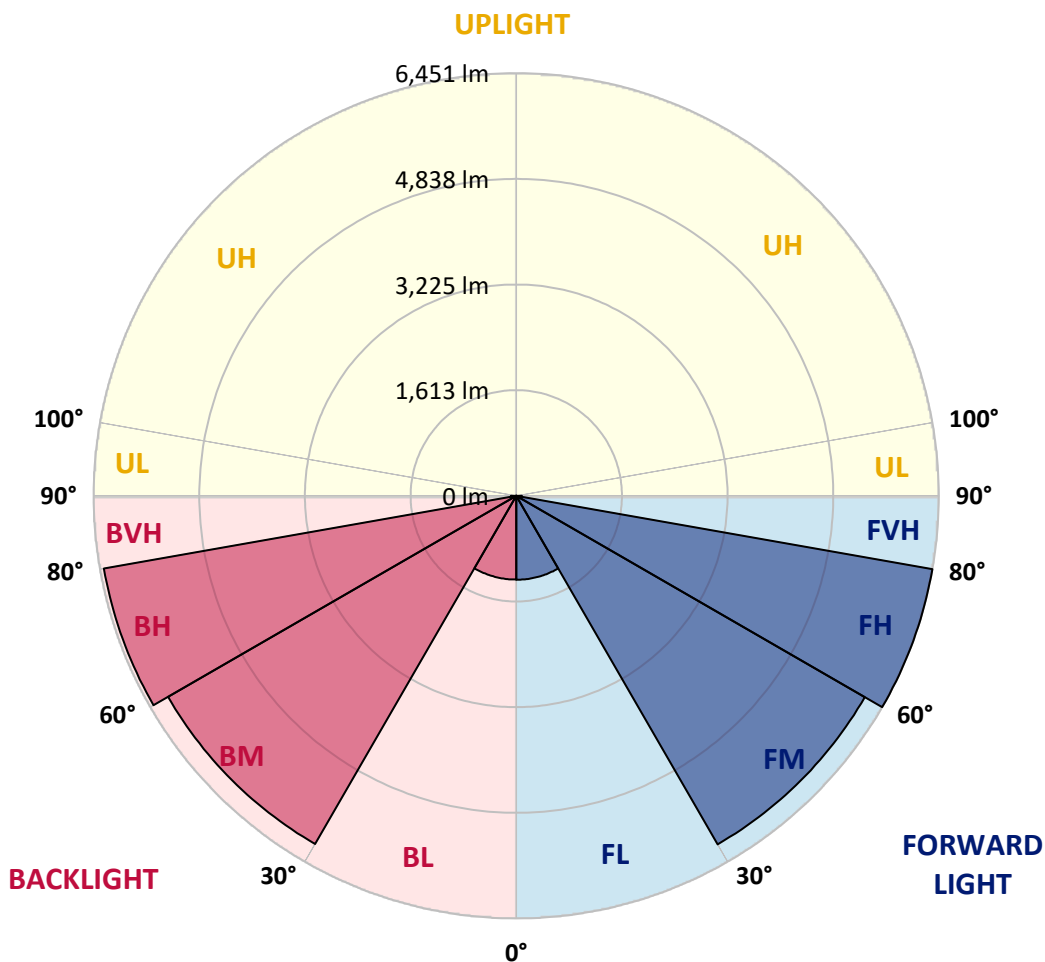


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.9	4.6			
FM (30°-60°)	6143.6	22.1			
FH (60°-80°)	6450.5	23.2			G3/7500
FVH (80°-90°)	86.0	0.3			G1/100
BL (0°-30°)	1278.3	4.6	B3/2500		
BM (30°-60°)	6136.9	22.0	B4/8500		
BH (60°-80°)	6392.3	23.0	B5		G3/7500
BVH (80°-90°)	82.1	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°	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2
2.5°	2972.3	3007.2	3032.7	3029.5	3039.0	3048.6	3035.8	3054.9	3042.2	3064.5
5°	3029.5	3019.9	3023.1	3004.1	3048.6	2997.7	2997.7	3023.1	3054.9	3016.8
7.5°	2994.5	2988.2	2972.3	3000.9	3010.4	3010.4	3035.8	2988.2	3042.2	3054.9
10°	2956.4	2921.4	2969.1	2997.7	3004.1	2953.2	2975.4	2988.2	2972.3	2988.2
12.5°	2924.6	2943.7	2943.7	2943.7	2934.1	2969.1	2991.3	2988.2	2956.4	2985.0
15°	2921.4	2911.9	2940.5	2965.9	2950.0	2956.4	2965.9	2994.5	2934.1	2946.8
17.5°	2918.2	2930.9	2940.5	2937.3	2991.3	2991.3	2981.8	2962.7	3010.4	2985.0
20°	2930.9	2921.4	2946.8	2956.4	2994.5	3070.8	3042.2	3026.3	3000.9	2969.1
22.5°	2946.8	2940.5	2975.4	3016.8	3089.9	3109.0	3105.8	3086.7	3042.2	3004.1
25°	3004.1	2946.8	2985.0	3064.5	3089.9	3128.0	3153.5	3128.0	3067.6	3077.2
27.5°	3089.9	3080.3	3131.2	3185.3	3163.0	3198.0	3175.7	3194.8	3198.0	3150.3
30°	3191.6	3163.0	3194.8	3299.7	3309.2	3347.4	3309.2	3258.4	3274.3	3232.9
32.5°	3337.8	3328.3	3388.7	3458.6	3471.4	3452.3	3433.2	3461.8	3395.1	3363.3
35°	3433.2	3474.5	3547.6	3601.7	3643.0	3623.9	3633.5	3604.9	3620.8	3554.0
37.5°	3716.1	3700.2	3716.1	3808.3	3817.9	3808.3	3817.9	3849.6	3827.4	3770.2
40°	3983.2	3957.7	3995.9	4100.8	4094.4	4126.2	4062.6	4097.6	4097.6	3989.5
42.5°	4183.4	4269.3	4313.8	4399.6	4431.4	4402.8	4390.1	4396.4	4466.3	4339.2
45°	4596.7	4593.5	4727.0	4774.7	4685.7	4679.3	4653.9	4730.2	4777.9	4704.8
47.5°	5044.9	5067.2	5143.5	5162.5	5216.6	5118.0	5118.0	5127.6	5296.0	5124.4
50°	5448.6	5477.2	5629.8	5779.2	5677.5	5572.6	5613.9	5664.8	5757.0	5594.9
52.5°	5938.2	6093.9	6195.7	6275.1	6348.3	6275.1	6179.8	6237.0	6418.2	6202.0
55°	6643.9	6767.9	6863.2	7009.5	7069.9	6971.3	6961.8	6955.4	7057.1	6828.3
57.5°	7432.3	7381.4	7534.0	7759.7	7979.0	7883.7	7855.0	7861.4	7886.8	7562.6
60°	8411.4	8468.6	8649.8	8846.9	9078.9	9212.4	9024.9	8916.8	8939.0	8497.2
62.5°	8970.8	9098.0	9508.1	10185.2	10652.5	11068.9	11097.5	10395.0	9924.5	9066.2
65°	8700.6	8681.6	9454.0	10706.5	12477.2	13688.3	13507.1	11803.2	10159.7	8796.0
67.5°	7400.5	7349.6	8284.2	10271.0	13195.6	15840.4	15633.8	12200.6	9365.0	7781.9
70°	4768.3	4755.6	5769.7	7829.6	11781.0	14543.4	14619.7	11081.6	7623.0	5699.8
72.5°	1732.5	1837.4	2425.5	4208.9	8001.3	11126.1	11173.8	8204.7	4383.7	2635.3
75°	639.0	658.0	766.1	1366.9	3646.2	6831.4	7009.5	3980.0	1557.7	858.3
77.5°	368.8	371.9	410.1	508.6	1080.8	2667.1	2775.2	1208.0	604.0	457.8
80°	251.1	248.0	289.3	330.6	432.3	756.6	804.3	505.4	381.5	317.9
82.5°	146.2	155.8	213.0	235.2	263.8	333.8	340.1	314.7	286.1	235.2
85°	89.0	73.1	117.6	130.3	152.6	149.4	149.4	171.7	184.4	165.3
87.5°	22.3	22.3	28.6	31.8	41.3	31.8	35.0	66.8	89.0	82.7
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°
3042.2	0°	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2	3042.2
3077.2	2.5°	3048.6	3039.0	3045.4	3080.3	3058.1	2991.3	3007.2	3042.2	3013.6	2997.7
3039.0	5°	3035.8	3054.9	3032.7	3039.0	3061.3	3007.2	3016.8	3061.3	3042.2	3048.6
3058.1	7.5°	3039.0	3048.6	3029.5	3000.9	3000.9	3045.4	3019.9	3026.3	2997.7	3045.4
2997.7	10°	3019.9	2994.5	2972.3	2988.2	2981.8	2969.1	2959.6	2978.6	2950.0	2991.3
2934.1	12.5°	2962.7	2969.1	2962.7	2956.4	2969.1	3000.9	2950.0	2956.4	2911.9	2918.2
2946.8	15°	2940.5	2959.6	2953.2	2988.2	3004.1	2956.4	2994.5	2956.4	2921.4	2902.3
2950.0	17.5°	2950.0	2978.6	2969.1	2994.5	2965.9	3000.9	3007.2	2991.3	2950.0	2934.1
2969.1	20°	2959.6	2950.0	2962.7	3007.2	3048.6	3013.6	3013.6	3004.1	2965.9	2943.7
2997.7	22.5°	2981.8	2965.9	2985.0	3019.9	3032.7	3086.7	3039.0	3016.8	2953.2	2896.0
3019.9	25°	3026.3	3035.8	3048.6	3035.8	3105.8	3099.4	3093.1	3077.2	2978.6	2981.8
3093.1	27.5°	3112.1	3058.1	3074.0	3150.3	3159.8	3185.3	3153.5	3182.1	3077.2	3080.3
3204.3	30°	3217.0	3159.8	3210.7	3277.4	3274.3	3321.9	3306.0	3312.4	3239.3	3198.0
3312.4	32.5°	3331.5	3325.1	3356.9	3398.2	3414.1	3439.6	3436.4	3436.4	3391.9	3283.8
3531.8	35°	3458.6	3503.1	3541.3	3585.8	3592.1	3623.9	3579.4	3585.8	3541.3	3461.8
3712.9	37.5°	3709.8	3706.6	3747.9	3802.0	3808.3	3782.9	3817.9	3802.0	3741.6	3687.5
3967.3	40°	4002.2	3938.6	3976.8	4104.0	4113.5	4069.0	4065.8	4062.6	4018.1	3900.5
4291.5	42.5°	4256.5	4339.2	4332.8	4374.2	4345.5	4323.3	4402.8	4358.3	4323.3	4199.3
4685.7	45°	4584.0	4609.4	4692.0	4825.6	4688.9	4688.9	4742.9	4707.9	4688.9	4596.7
5035.4	47.5°	4990.9	5013.1	5178.4	5188.0	5098.9	5038.5	5207.0	5213.4	5133.9	5064.0
5518.6	50°	5467.7	5477.2	5626.6	5779.2	5680.7	5566.2	5737.9	5804.7	5626.6	5531.3
6106.7	52.5°	5992.2	5963.6	6087.6	6373.7	6278.3	6243.3	6427.7	6443.6	6202.0	6052.6
6697.9	55°	6596.2	6558.1	6895.0	7088.9	7028.5	6965.0	7047.6	7085.8	6891.8	6647.1
7464.0	57.5°	7378.2	7397.3	7565.8	7756.5	7855.0	7870.9	7909.1	7870.9	7673.8	7425.9
8344.6	60°	8160.2	8217.4	8544.9	8904.1	8935.9	9215.6	9164.8	8974.0	8694.3	8341.4
8417.7	62.5°	8449.5	8401.8	8929.5	9806.9	10553.9	11065.7	10840.0	10162.9	9514.4	8872.3
7925.0	65°	7867.8	7985.4	8703.8	10077.1	11698.3	13723.3	12521.7	10649.3	9339.6	8509.9
6796.5	67.5°	6780.6	6869.6	7781.9	9231.5	12108.4	15357.2	13157.4	9962.7	8236.5	7162.0
4723.8	70°	4723.8	4768.3	5661.6	7562.6	10979.9	14492.6	11870.0	7651.6	5687.0	4533.1
1942.3	72.5°	1901.0	2009.1	2597.2	4555.4	8106.2	11011.7	7991.7	4014.9	2358.7	1754.7
699.4	75°	702.5	705.7	829.7	1567.2	3849.6	6920.5	3604.9	1290.6	753.4	616.7
422.8	77.5°	406.9	403.7	432.3	565.8	1115.8	2702.1	1023.6	505.4	410.1	368.8
267.0	80°	254.3	251.1	295.6	375.1	489.5	740.7	432.3	314.7	276.6	238.4
174.8	82.5°	162.1	165.3	232.1	276.6	298.8	327.4	251.1	222.5	206.6	136.7
98.5	85°	104.9	95.4	162.1	184.4	165.3	146.2	139.9	117.6	108.1	66.8
50.9	87.5°	47.7	50.9	82.7	92.2	60.4	35.0	35.0	25.4	25.4	15.9
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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180°
3042.2
2994.5
3013.6
2981.8
2946.8
2940.5
2937.3
2950.0
2943.7
2950.0
2972.3
3016.8
3112.1
3299.7
3487.2
3646.2
3875.1
4177.1
4510.9
4959.1
5400.9
6087.6
6732.9
7346.4
8357.3
8920.0
8417.7
7219.3
4596.7
1592.6
588.1
352.9
238.4
133.5
73.1
15.9
0.0

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