

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: P575286

Luminaire Tested: **EPH-VN-06-730-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

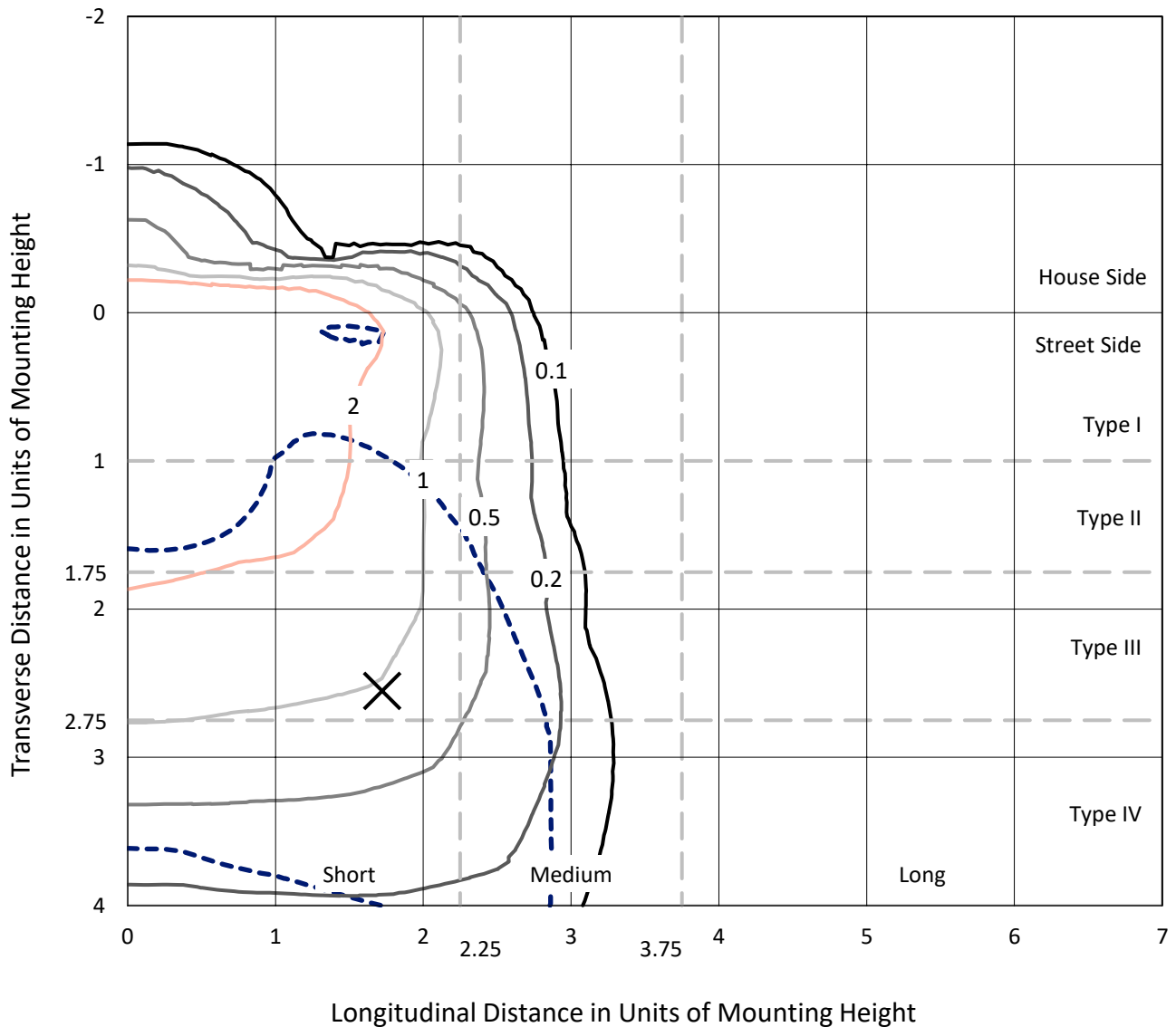
Lumens per Lamp: N/A
Luminaire Lumens: 30105.4 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

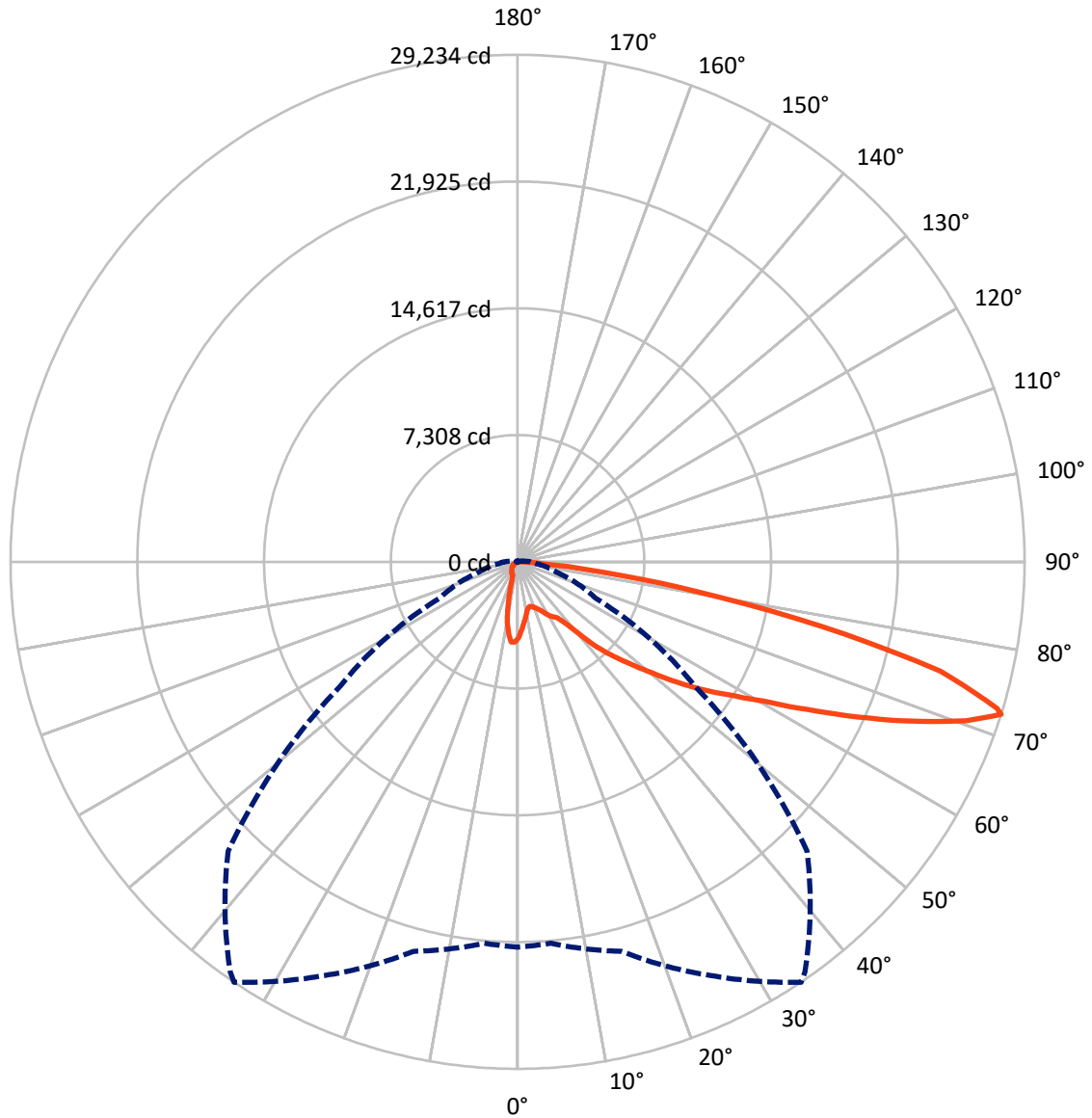
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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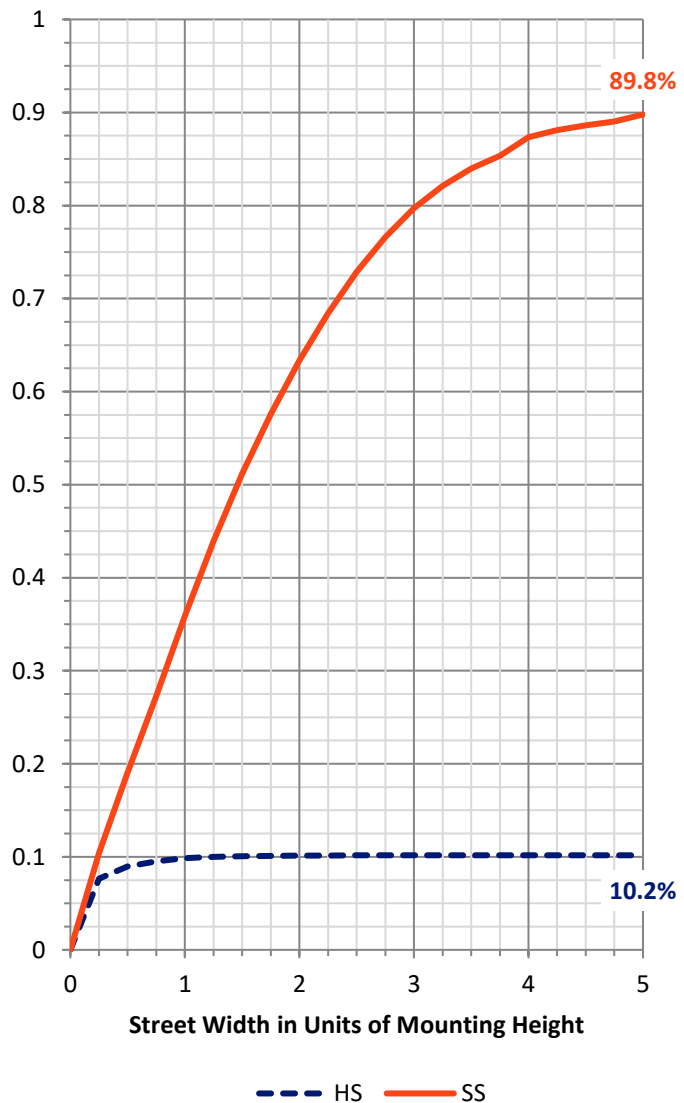
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3082.1	0.0	3082.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	27023.3	0.0	27023.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	30105.4	0.0	30105.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	1.3
10°-20°	865.6	2.9
20°-30°	1306.6	4.3
30°-40°	2120.3	7.0
40°-50°	3987.1	13.2
50°-60°	6519.0	21.7
60°-70°	8666.1	28.8
70°-80°	5803.6	19.3
80°-90°	454.8	1.5
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°	30105.4	100.0
0°-180°	30105.4	100.0

Coefficient of Utilization

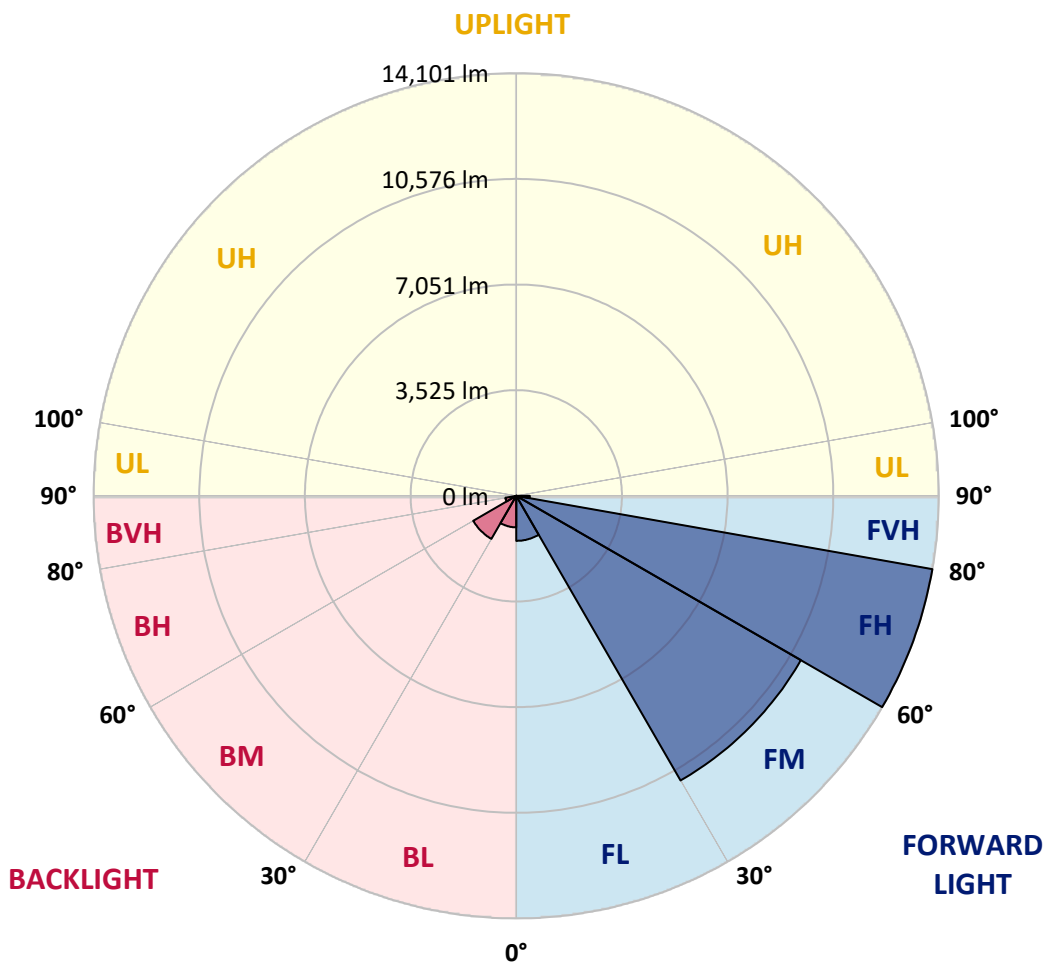


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.9	5.0			
FM (30°-60°)	10967.3	36.4			
FH (60°-80°)	14101.1	46.8			G5
FVH (80°-90°)	451.9	1.5			G3/500
BL (0°-30°)	1051.6	3.5	B3/2500		
BM (30°-60°)	1659.1	5.5	B2/2500		
BH (60°-80°)	368.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4
2.5°	3895.2	3886.5	3912.6	3956.2	3999.7	3982.3	4065.0	4152.0	4212.9	4295.6
5°	3403.4	3425.2	3451.3	3538.4	3594.9	3608.0	3760.3	3873.5	4060.6	4252.1
7.5°	2955.2	2981.3	3033.5	3129.2	3246.8	3277.2	3429.5	3655.9	3899.6	4152.0
10°	2628.7	2654.9	2711.4	2772.4	2929.0	2929.0	3138.0	3451.3	3769.0	4065.0
12.5°	2559.1	2572.2	2567.8	2615.7	2715.8	2737.5	2942.1	3285.9	3655.9	4034.5
15°	2641.8	2650.5	2607.0	2580.9	2667.9	2689.7	2881.2	3185.8	3581.9	4051.9
17.5°	2807.2	2776.7	2689.7	2650.5	2724.5	2737.5	2916.0	3181.5	3573.2	4099.8
20°	2902.9	2937.7	2785.4	2711.4	2815.9	2833.3	3024.8	3251.1	3616.7	4182.5
22.5°	3072.7	3090.1	2885.5	2837.6	2937.7	2937.7	3155.4	3390.4	3721.1	4317.4
25°	3312.0	3290.3	3050.9	3003.0	3098.8	3138.0	3355.6	3612.3	3882.2	4443.6
27.5°	3499.2	3512.2	3316.4	3190.2	3351.2	3377.3	3612.3	3851.7	4004.0	4548.1
30°	3777.7	3751.6	3542.7	3399.1	3599.3	3603.6	3830.0	4078.0	4239.1	4735.2
32.5°	4108.5	4056.3	3816.9	3612.3	3773.4	3812.5	4043.2	4404.4	4604.6	5087.7
35°	4809.2	4683.0	4291.3	3973.6	3986.6	4004.0	4360.9	4878.8	5109.5	5536.0
37.5°	5832.0	5779.7	5335.8	4730.9	4500.2	4448.0	4848.4	5505.6	5792.8	6127.9
40°	6846.0	6772.1	6358.6	5901.6	5483.8	5379.3	5579.5	6336.8	6598.0	6950.5
42.5°	7973.3	7842.7	7355.3	6985.3	6724.2	6611.0	6532.7	7381.4	7677.3	7916.7
45°	9113.5	8900.3	8195.2	7912.3	7773.1	7712.1	7703.4	8695.7	8874.2	8922.1
47.5°	10114.6	9883.9	9244.1	8926.4	8822.0	8804.5	9292.0	10210.3	10071.0	9944.8
50°	10884.9	10736.9	10275.6	10162.4	10084.1	10053.6	11193.9	11768.4	11124.3	10902.3
52.5°	12077.4	11746.6	11224.4	11263.5	11537.7	11542.1	13121.9	13248.2	11999.1	11559.5
55°	13030.5	12812.9	12386.4	12329.8	13052.3	13130.6	14849.8	14371.0	12486.5	12186.2
57.5°	14153.4	14053.3	13744.3	13753.0	14510.3	14675.7	16386.1	15319.8	12891.3	12591.0
60°	15776.8	15489.6	15328.5	15402.5	16294.7	16455.7	17874.6	16003.1	13087.1	12856.5
62.5°	17569.9	17234.8	17060.7	17439.3	18740.7	18766.8	19006.1	16608.1	12965.3	12926.1
65°	19728.6	19397.8	19258.6	20020.2	21565.3	21469.5	20594.7	16864.9	12577.9	12225.4
67.5°	21878.6	21678.4	21391.2	22605.4	24529.1	24529.1	22244.2	16769.1	11563.9	9814.3
70°	22897.0	23036.3	23493.3	25399.6	27440.8	27231.8	23871.9	15668.0	8608.7	5270.5
72°	22218.1	22074.5	23253.9	26313.5	29233.9	28890.0	23597.7	12456.1	4974.6	2311.0
72.5°	21051.7	21186.6	22810.0	26187.3	28898.7	29181.6	22927.5	11489.9	4091.1	1841.0
75°	12908.7	13139.4	17025.9	22235.5	25181.9	24864.2	17735.3	5475.1	1571.2	783.4
77.5°	4713.5	4905.0	8260.5	13992.4	17909.4	17709.2	10262.5	1945.4	853.0	583.2
80°	1227.3	1327.4	2807.2	6454.3	10532.4	10545.4	4295.6	779.0	578.8	478.7
82.5°	243.7	269.8	861.7	2511.2	4922.4	4857.1	1357.9	417.8	435.2	391.7
85°	30.5	39.2	182.8	853.0	1592.9	1427.5	335.1	208.9	322.1	304.7
87.5°	4.4	4.4	43.5	195.8	335.1	326.4	69.6	65.3	143.6	187.1
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°
4404.4	0°	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4	4404.4
4395.7	2.5°	4452.3	4469.7	4530.7	4582.9	4643.8	4661.2	4635.1	4678.6	4617.7	4652.5
4430.6	5°	4461.0	4561.1	4674.3	4748.3	4730.9	4687.3	4652.5	4535.0	4452.3	4421.9
4443.6	7.5°	4522.0	4635.1	4757.0	4757.0	4661.2	4434.9	4217.3	4008.4	3834.3	3747.3
4448.0	10°	4600.3	4717.8	4844.0	4678.6	4321.8	3908.3	3599.3	3207.6	2942.1	2802.8
4517.6	12.5°	4704.8	4870.1	4913.7	4530.7	3938.8	3325.1	2763.7	2219.6	1967.2	1767.0
4630.8	15°	4839.7	5000.7	4870.1	4208.6	3451.3	2546.0	1871.5	1353.5	1153.3	1048.9
4761.3	17.5°	5018.1	5140.0	4857.1	3912.6	2794.1	1740.9	1149.0	914.0	870.4	853.0
4944.1	20°	5227.0	5318.4	4730.9	3451.3	2076.0	1118.5	844.3	818.2	822.6	813.9
5161.7	22.5°	5462.0	5492.5	4587.2	2916.0	1405.8	826.9	787.8	792.1	796.5	787.8
5361.9	25°	5710.1	5627.4	4378.3	2289.3	935.7	752.9	761.6	770.3	774.7	779.0
5605.7	27.5°	5988.7	5823.3	4086.7	1675.6	731.2	709.4	735.5	761.6	766.0	766.0
5971.2	30°	6397.8	6123.6	3803.8	1135.9	644.1	661.5	705.1	735.5	757.3	757.3
6537.0	32.5°	6915.7	6436.9	3407.8	774.7	596.3	605.0	639.8	700.7	748.6	752.9
7294.3	35°	7633.8	6815.6	2994.3	618.0	561.4	565.8	587.5	635.4	718.1	744.2
8277.9	37.5°	8391.1	7246.4	2480.8	557.1	535.3	531.0	544.0	583.2	657.2	722.5
9287.6	40°	9196.2	7699.1	1941.1	526.6	513.6	504.9	509.2	526.6	583.2	665.9
10275.6	42.5°	9953.5	8108.2	1458.0	496.2	491.8	483.1	483.1	487.4	517.9	574.5
11372.4	45°	10771.7	8443.3	1109.8	474.4	461.3	465.7	448.3	439.6	461.3	465.7
12595.3	47.5°	11537.7	8778.4	887.9	448.3	435.2	435.2	413.5	396.1	396.1	356.9
13670.3	50°	12255.9	8961.2	709.4	413.5	409.1	404.8	374.3	343.8	317.7	269.8
14684.4	52.5°	12852.1	8952.5	548.4	369.9	383.0	369.9	322.1	278.5	239.4	195.8
15058.7	55°	13030.5	8534.7	413.5	304.7	326.4	309.0	256.8	217.6	174.1	139.3
15115.3	57.5°	12878.2	7899.3	313.4	235.0	252.4	235.0	195.8	161.0	121.9	95.7
14976.0	60°	12369.0	7155.1	243.7	182.8	191.5	178.4	148.0	121.9	87.0	60.9
14079.4	62.5°	11402.8	6223.7	187.1	143.6	139.3	139.3	113.2	91.4	60.9	34.8
11724.9	65°	9357.3	4852.7	143.6	100.1	100.1	100.1	87.0	65.3	39.2	17.4
7668.6	67.5°	5875.5	2824.6	117.5	78.3	74.0	74.0	60.9	43.5	21.8	4.4
3016.1	70°	2210.9	1035.8	91.4	60.9	56.6	56.6	43.5	26.1	13.1	0.0
1048.9	72°	761.6	396.1	74.0	43.5	43.5	39.2	30.5	21.8	8.7	0.0
792.1	72.5°	626.7	317.7	69.6	43.5	39.2	39.2	30.5	21.8	8.7	0.0
282.9	75°	226.3	130.6	47.9	30.5	26.1	26.1	21.8	13.1	4.4	0.0
143.6	77.5°	113.2	82.7	39.2	26.1	21.8	13.1	13.1	8.7	4.4	0.0
87.0	80°	69.6	52.2	21.8	17.4	13.1	8.7	4.4	4.4	0.0	0.0
60.9	82.5°	47.9	30.5	13.1	13.1	8.7	4.4	0.0	0.0	0.0	0.0
39.2	85°	30.5	13.1	8.7	8.7	4.4	0.0	0.0	0.0	0.0	0.0
21.8	87.5°	13.1	8.7	4.4	0.0	0.0	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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180°
4404.4
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813.9
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761.6
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739.9
726.8
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