

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: P575222

Luminaire Tested: **EPH-VN-04-750-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575222  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-750-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

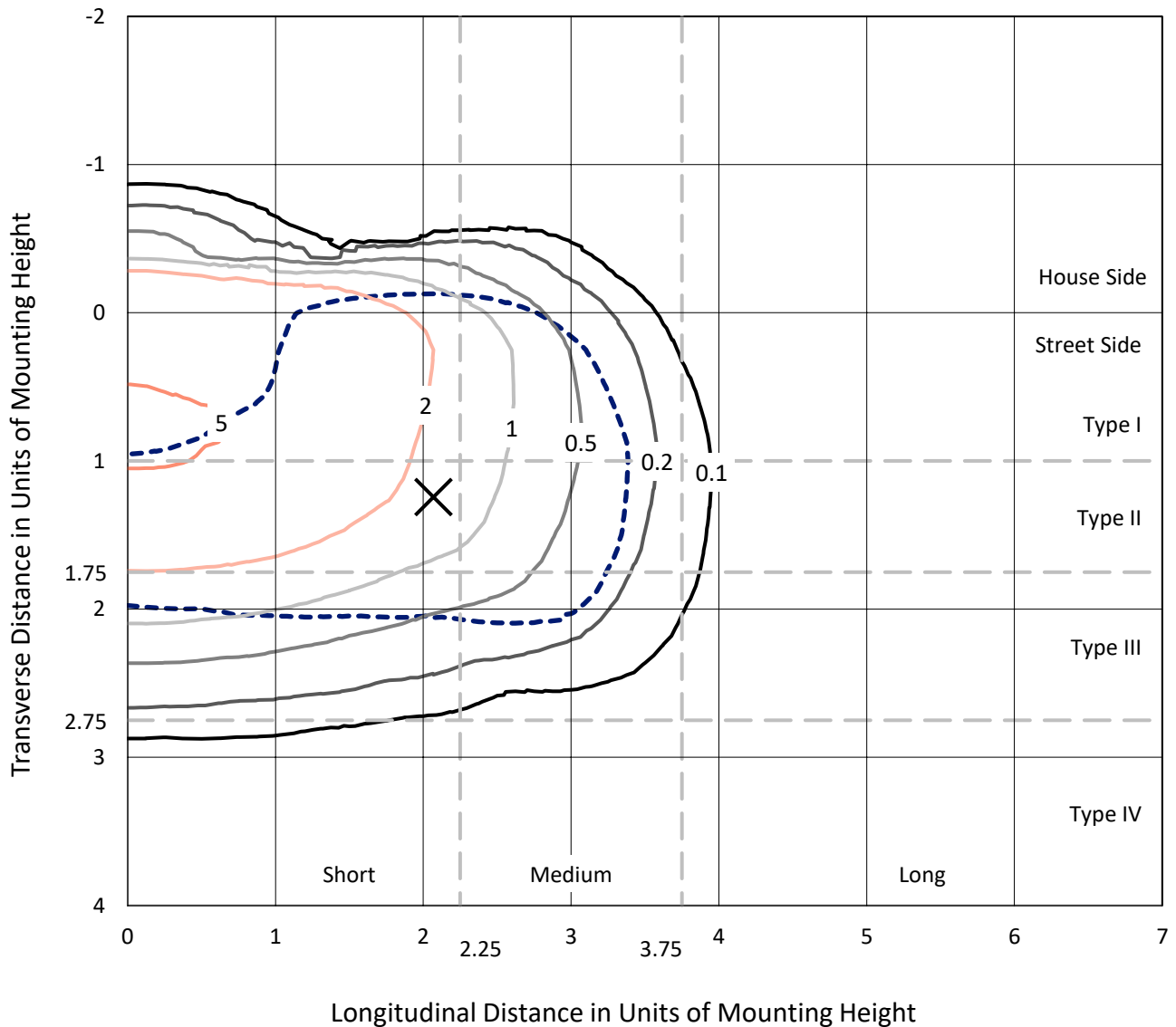
Lumens per Lamp: N/A  
Luminaire Lumens: 22938.7 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

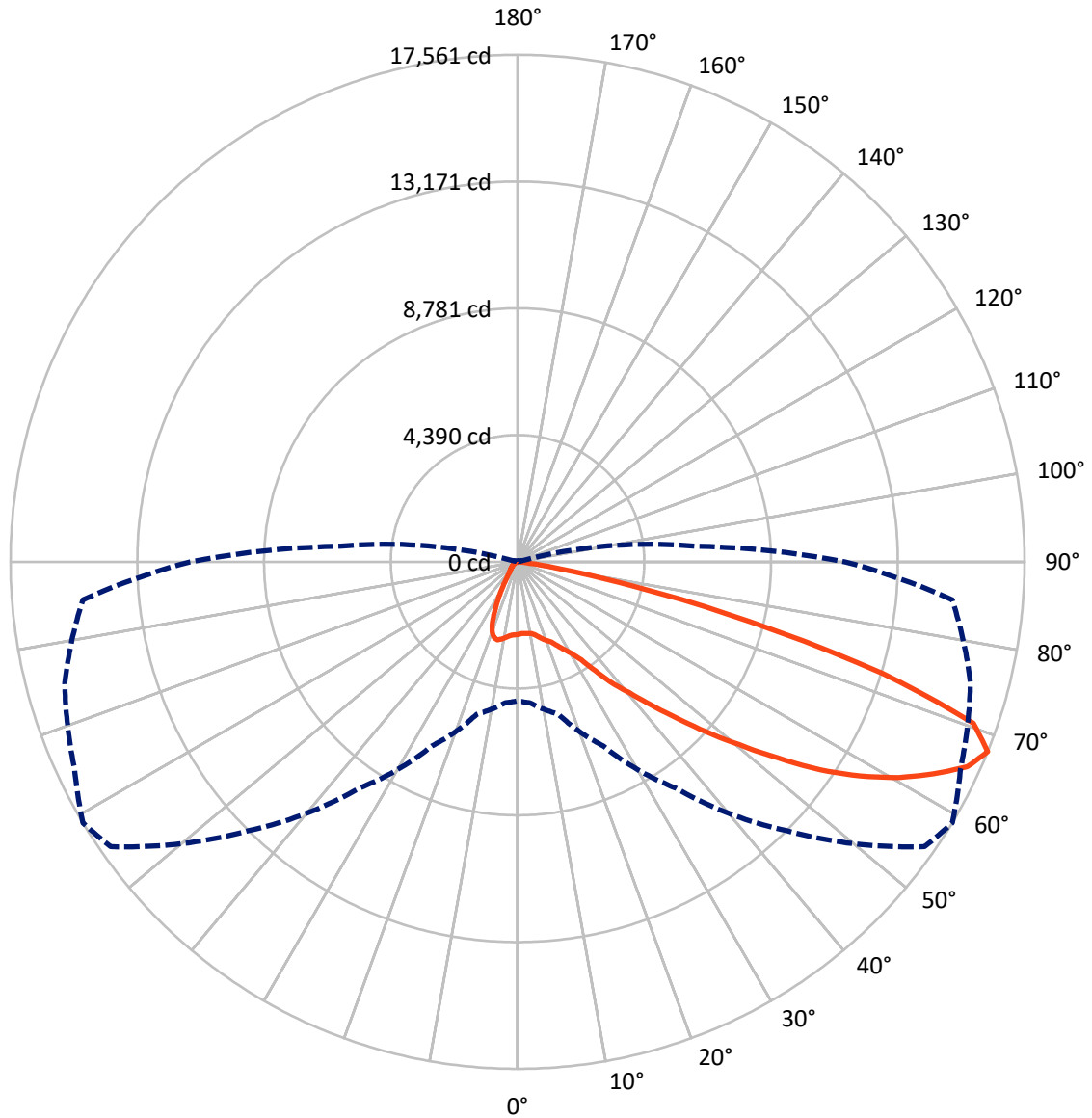
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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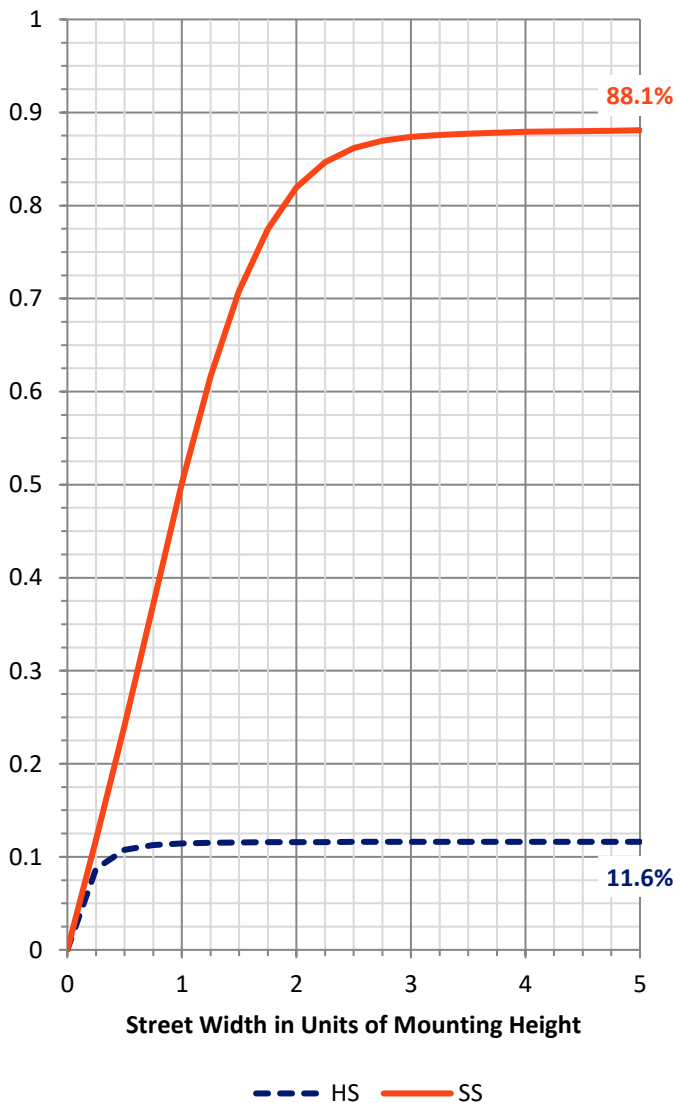
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2694.5	0.0	2694.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	20244.2	0.0	20244.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	22938.7	0.0	22938.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.0	1.0
10°-20°	690.3	3.0
20°-30°	1206.6	5.3
30°-40°	2124.3	9.3
40°-50°	3755.0	16.4
50°-60°	5945.6	25.9
60°-70°	6595.3	28.8
70°-80°	2288.4	10.0
80°-90°	94.2	0.4
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°	22938.7	100.0
0°-180°	22938.7	100.0

**Coefficient of Utilization**

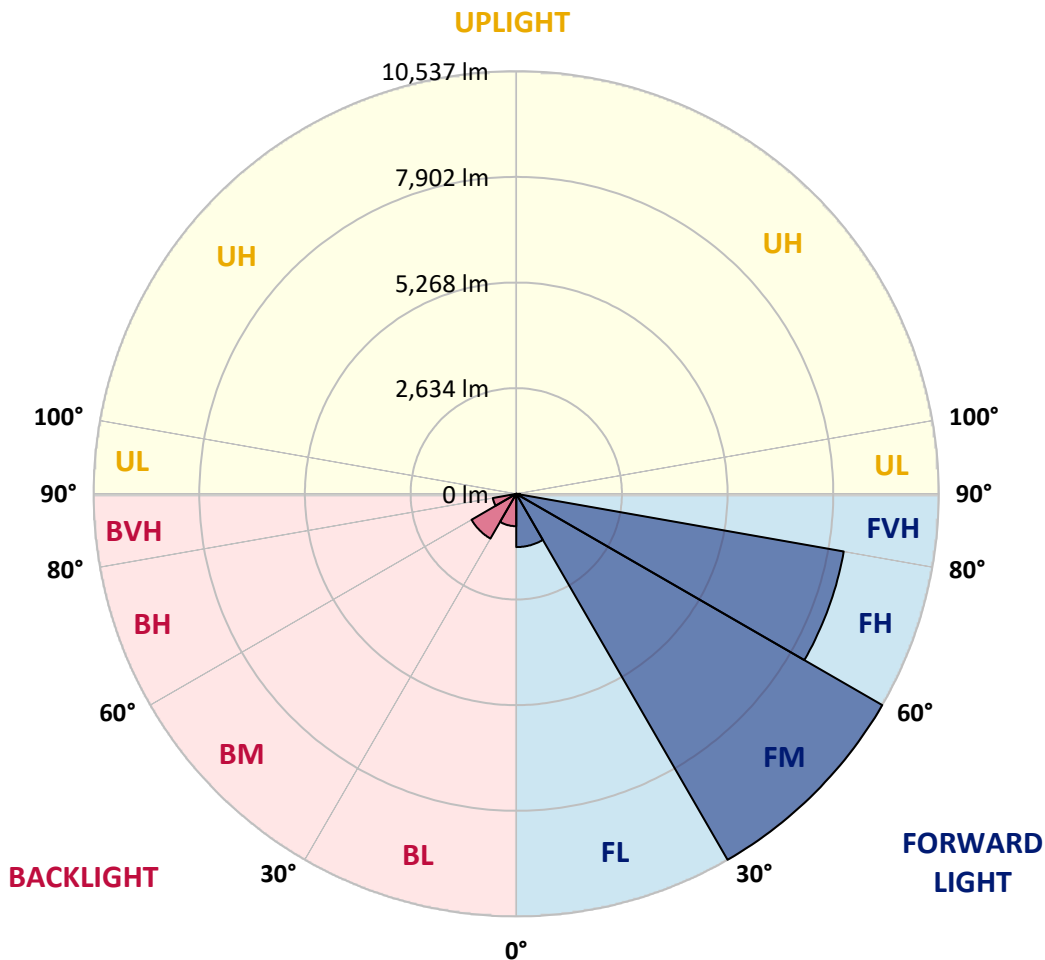


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.3	5.8			
FM (30°-60°)	10536.6	45.9			
FH (60°-80°)	8291.1	36.1			G4/12000
FVH (80°-90°)	88.1	0.4			G1/100
BL (0°-30°)	807.6	3.5	B2/1000		
BM (30°-60°)	1288.3	5.6	B2/2500		
BH (60°-80°)	592.6	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.1	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°	59°	65°	75°
0°	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0
2.5°	2443.1	2408.2	2439.9	2443.1	2446.3	2474.8	2506.5	2484.3	2481.1	2506.5
5°	2344.9	2329.0	2367.0	2386.0	2417.7	2443.1	2493.8	2497.0	2500.1	2528.6
7.5°	2303.7	2265.6	2310.0	2332.2	2354.4	2414.6	2474.8	2506.5	2550.8	2585.7
10°	2221.3	2249.8	2262.5	2300.5	2363.9	2433.6	2506.5	2522.3	2620.5	2649.1
12.5°	2249.8	2268.8	2294.2	2303.7	2373.4	2477.9	2576.2	2582.5	2683.9	2807.5
15°	2322.7	2310.0	2319.5	2332.2	2414.6	2500.1	2658.6	2687.1	2782.1	2921.6
17.5°	2477.9	2455.8	2439.9	2436.7	2455.8	2535.0	2721.9	2807.5	2896.2	3086.3
20°	2867.7	2848.7	2785.3	2620.5	2563.5	2595.2	2798.0	2918.4	3042.0	3254.3
22.5°	3460.2	3479.3	3330.3	3099.0	2861.4	2737.8	2918.4	3023.0	3219.4	3488.8
25°	4160.5	4122.5	3941.9	3672.5	3298.6	3007.1	3111.7	3228.9	3469.7	3691.6
27.5°	4708.7	4664.4	4524.9	4198.6	3875.3	3403.2	3365.2	3438.1	3723.2	3922.9
30°	5250.6	5266.4	5171.4	4784.8	4385.5	3888.0	3647.2	3678.9	3897.5	4154.2
32.5°	5941.4	5903.3	5849.5	5510.4	5038.3	4505.9	4094.0	4043.3	4138.3	4477.4
35°	6584.6	6562.4	6489.5	6147.3	5735.4	5155.5	4753.1	4639.0	4616.8	4993.9
37.5°	7145.5	7107.4	6996.5	6777.9	6378.6	5890.7	5450.2	5348.8	5345.6	5605.5
40°	7617.6	7646.1	7633.4	7392.6	7174.0	6784.2	6109.3	5947.7	5935.0	6074.4
42.5°	8229.2	8295.7	8260.9	8213.3	7950.3	7798.2	7034.6	6787.4	6676.5	6961.7
45°	9154.4	9179.8	9202.0	9084.7	8821.7	8853.4	7991.5	7696.8	7668.3	8092.9
47.5°	10019.5	9953.0	10108.2	10114.6	10101.9	9956.1	9024.5	8805.9	8843.9	9167.1
50°	10235.0	10406.1	10833.9	10913.1	11119.0	11252.1	10171.6	9953.0	10016.3	10383.9
52.5°	10402.9	10662.7	11090.5	11670.4	12224.9	12541.8	11454.9	11277.5	11274.3	11499.3
55°	10697.6	10856.0	11226.8	12025.3	13080.5	13600.1	13001.3	12716.1	12459.4	12617.8
57.5°	10669.1	10729.3	11306.0	12291.5	13758.6	14702.9	14271.9	13999.4	13669.9	13578.0
60°	10168.4	10311.0	10957.4	12110.8	14176.9	15561.6	15457.0	15178.2	14611.0	14395.5
62.5°	9176.6	9366.7	9873.7	11477.1	13568.5	15605.9	16274.5	16170.0	15536.2	15149.7
65°	7437.0	7525.7	8108.8	9867.4	12193.2	14924.7	17241.0	17111.1	16528.0	15951.3
67.5°	4816.5	4902.0	5462.9	7044.1	9575.9	13166.0	17203.0	17561.0	16930.5	16236.5
70°	2275.1	2253.0	2775.8	3913.4	6134.6	10054.3	16040.1	16746.7	16211.2	14718.7
72.5°	693.9	754.2	1153.4	1733.3	3149.7	6270.9	12573.5	13235.7	13067.8	11759.1
75°	307.4	332.7	453.1	709.8	1277.0	2573.0	7766.5	8355.9	8283.0	6936.3
77.5°	196.5	215.5	285.2	405.6	579.9	817.5	3577.5	4151.0	4024.3	2436.7
80°	139.4	148.9	202.8	278.8	364.4	335.9	1232.6	1463.9	1403.7	662.3
82.5°	76.0	82.4	148.9	206.0	244.0	171.1	345.4	430.9	450.0	294.7
85°	28.5	34.9	91.9	145.8	126.7	79.2	101.4	123.6	161.6	161.6
87.5°	0.0	3.2	38.0	63.4	31.7	22.2	28.5	34.9	44.4	76.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2516.0	0°	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0
2528.6	2.5°	2544.5	2522.3	2531.8	2547.7	2512.8	2531.8	2493.8	2522.3	2531.8	2493.8
2566.7	5°	2576.2	2598.4	2585.7	2560.3	2538.1	2544.5	2535.0	2512.8	2531.8	2538.1
2623.7	7.5°	2668.1	2642.7	2649.1	2620.5	2576.2	2573.0	2512.8	2497.0	2503.3	2509.6
2740.9	10°	2753.6	2769.5	2737.8	2715.6	2642.7	2595.2	2512.8	2424.1	2414.6	2376.5
2855.0	12.5°	2905.7	2867.7	2855.0	2782.1	2709.3	2550.8	2373.4	2237.1	2123.0	2081.8
3038.8	15°	3032.5	3026.1	3003.9	2893.0	2725.1	2436.7	2100.9	1784.0	1565.3	1429.1
3146.5	17.5°	3206.7	3178.2	3137.0	2962.8	2607.9	2138.9	1565.3	1166.1	947.4	861.9
3352.5	20°	3339.8	3317.7	3260.6	2946.9	2395.6	1593.9	969.6	741.5	687.6	671.8
3577.5	22.5°	3533.1	3463.4	3355.7	2867.7	2009.0	1061.5	697.1	662.3	652.8	640.1
3726.4	25°	3701.1	3637.7	3412.7	2731.4	1432.3	703.5	646.4	627.4	611.6	595.7
3884.9	27.5°	3850.0	3770.8	3472.9	2452.6	896.7	605.2	598.9	576.7	545.0	519.7
4068.6	30°	3995.8	3903.9	3488.8	1929.8	605.2	548.2	532.3	497.5	456.3	421.4
4376.0	32.5°	4239.7	4128.8	3466.6	1378.4	522.8	488.0	453.1	411.9	351.7	323.2
4816.5	35°	4620.0	4452.1	3438.1	811.2	469.0	430.9	377.1	323.2	278.8	250.3
5263.2	37.5°	5057.3	4765.8	3355.7	541.9	430.9	380.2	310.5	256.7	218.6	196.5
5874.8	40°	5706.9	5225.2	3038.8	443.6	383.4	323.2	250.3	202.8	174.3	158.4
6781.1	42.5°	6423.0	5751.2	2550.8	399.3	339.1	275.7	199.6	164.8	142.6	126.7
7687.3	45°	7281.7	6299.4	1967.8	364.4	301.0	228.1	164.8	133.1	114.1	101.4
8748.8	47.5°	8238.7	6796.9	1327.7	329.5	253.5	187.0	136.3	101.4	82.4	72.9
9905.4	50°	9094.2	7237.4	846.0	288.4	221.8	155.3	110.9	82.4	66.5	53.9
10840.2	52.5°	9870.6	7573.2	583.0	253.5	190.1	126.7	91.9	66.5	50.7	41.2
11809.8	55°	10665.9	7744.4	430.9	218.6	164.8	107.7	76.0	60.2	44.4	34.9
12925.2	57.5°	11318.7	7817.2	329.5	190.1	139.4	85.6	66.5	50.7	38.0	28.5
13780.8	60°	11876.4	7782.4	256.7	158.4	110.9	72.9	57.0	41.2	31.7	22.2
14896.2	62.5°	12202.7	7573.2	202.8	136.3	88.7	63.4	47.5	34.9	22.2	15.8
15469.7	65°	12209.1	7129.6	158.4	101.4	66.5	53.9	41.2	28.5	15.8	6.3
15111.6	67.5°	11334.5	6169.5	126.7	79.2	53.9	41.2	31.7	22.2	6.3	0.0
12551.3	70°	8866.1	4667.5	104.6	63.4	44.4	34.9	22.2	12.7	3.2	0.0
8378.1	72.5°	5649.8	2794.8	85.6	50.7	38.0	25.3	15.8	9.5	0.0	0.0
3824.6	75°	2363.9	861.9	66.5	44.4	28.5	19.0	12.7	3.2	0.0	0.0
1001.3	77.5°	608.4	272.5	53.9	38.0	28.5	15.8	9.5	3.2	0.0	0.0
269.3	80°	180.6	101.4	44.4	31.7	22.2	12.7	6.3	3.2	0.0	0.0
129.9	82.5°	82.4	60.2	38.0	28.5	19.0	12.7	6.3	0.0	0.0	0.0
60.2	85°	31.7	19.0	19.0	15.8	15.8	9.5	3.2	0.0	0.0	0.0
22.2	87.5°	12.7	6.3	6.3	6.3	3.2	3.2	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°
2516.0
2512.8
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190.1
152.1
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