

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: P575210

Luminaire Tested: **EPH-VN-04-735-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575210  
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-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

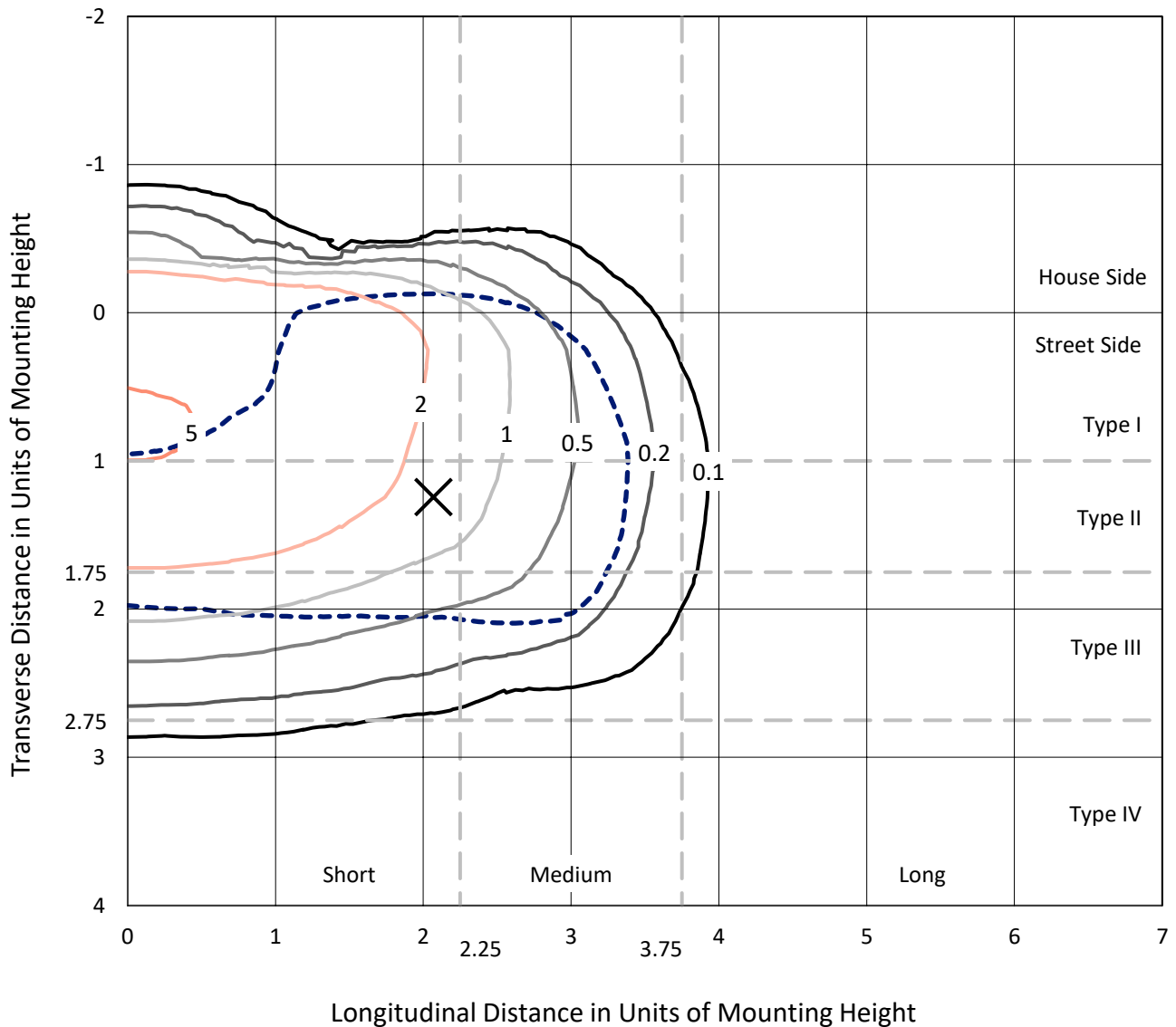
Lumens per Lamp: N/A  
Luminaire Lumens: 22118 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

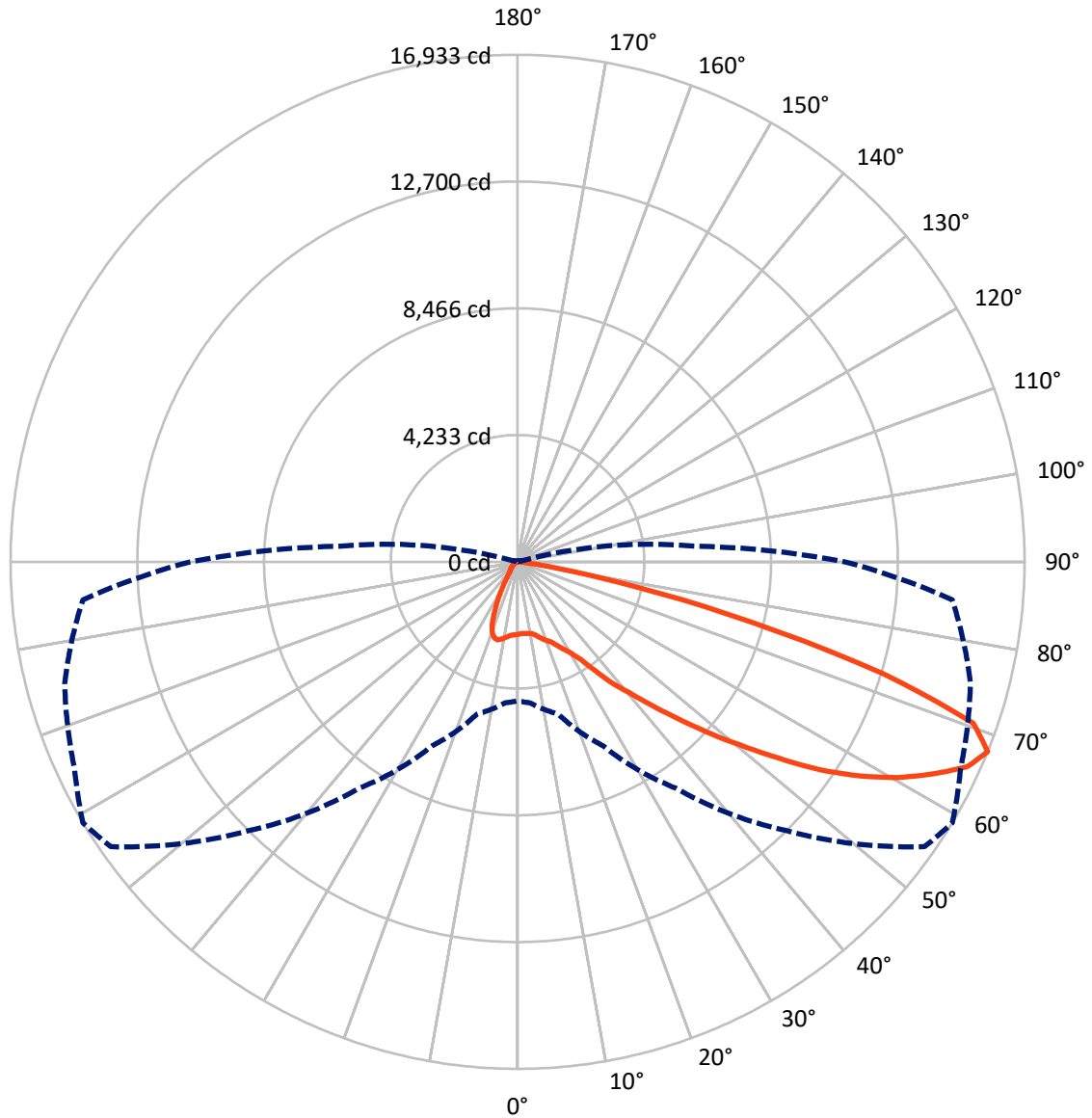
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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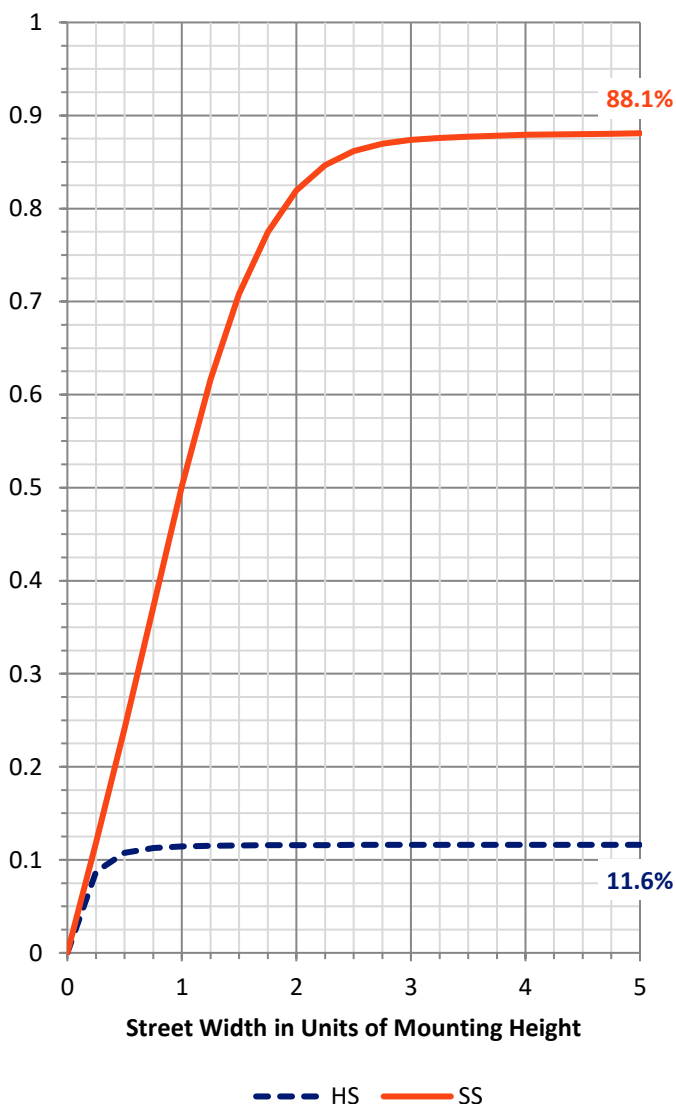
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2598.1	0.0	2598.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	19519.8	0.0	19519.8
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	22118.0	0.0	22118.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.4	1.0
10°-20°	665.6	3.0
20°-30°	1163.4	5.3
30°-40°	2048.3	9.3
40°-50°	3620.7	16.4
50°-60°	5732.8	25.9
60°-70°	6359.3	28.8
70°-80°	2206.5	10.0
80°-90°	90.9	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°	22118.0	100.0
0°-180°	22118.0	100.0

**Coefficient of Utilization**

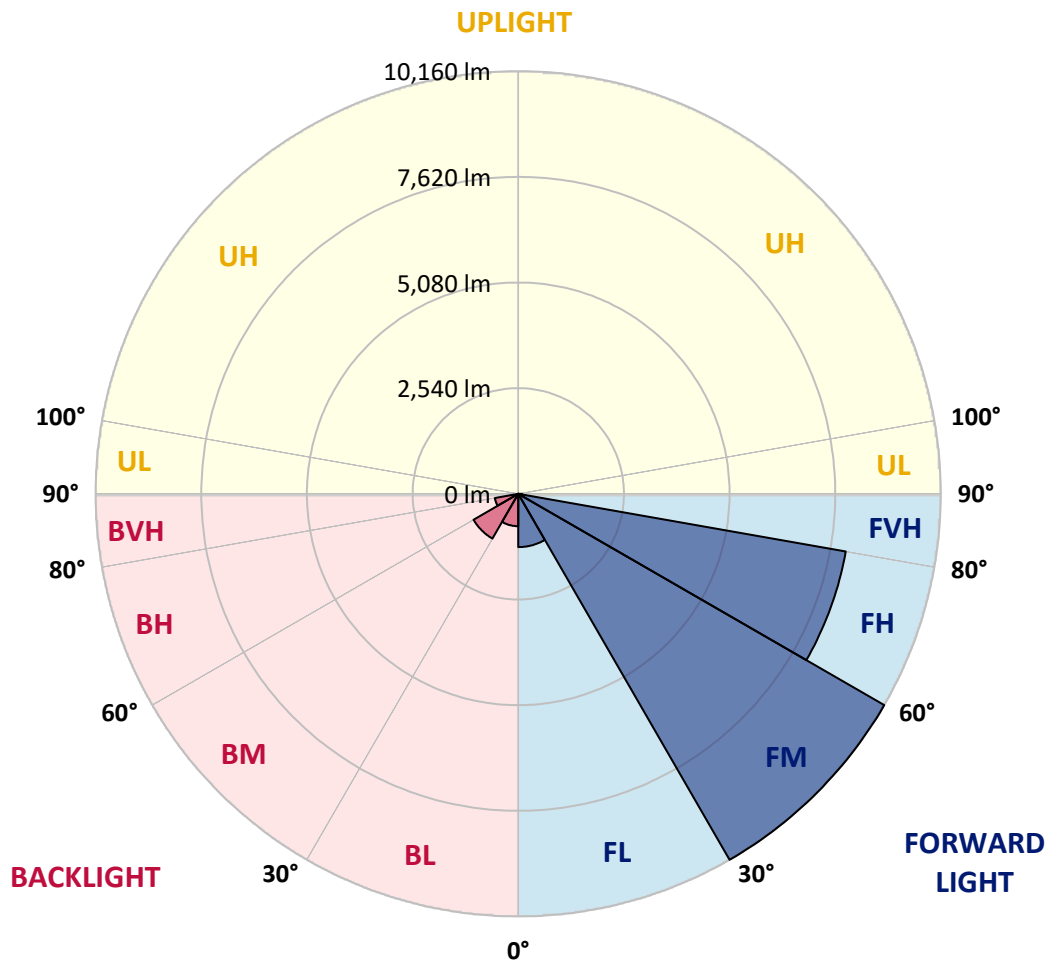


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.8	5.8			
FM (30°-60°)	10159.6	45.9			
FH (60°-80°)	7994.4	36.1			G4/12000
FVH (80°-90°)	85.0	0.4			G1/100
BL (0°-30°)	778.7	3.5	B2/1000		
BM (30°-60°)	1242.2	5.6	B2/2500		
BH (60°-80°)	571.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.9	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°	59°	65°	75°
0°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2.5°	2355.7	2322.1	2352.6	2355.7	2358.7	2386.2	2416.8	2395.4	2392.3	2416.8
5°	2261.0	2245.7	2282.3	2300.7	2331.2	2355.7	2404.6	2407.6	2410.7	2438.2
7.5°	2221.2	2184.6	2227.3	2248.7	2270.1	2328.2	2386.2	2416.8	2459.5	2493.2
10°	2141.8	2169.3	2181.5	2218.2	2279.3	2346.5	2416.8	2432.1	2526.8	2554.3
12.5°	2169.3	2187.6	2212.1	2221.2	2288.5	2389.3	2484.0	2490.1	2587.9	2707.0
15°	2239.6	2227.3	2236.5	2248.7	2328.2	2410.7	2563.4	2590.9	2682.6	2817.0
17.5°	2389.3	2367.9	2352.6	2349.6	2367.9	2444.3	2624.5	2707.0	2792.6	2975.9
20°	2765.1	2746.8	2685.6	2526.8	2471.8	2502.3	2697.9	2814.0	2933.1	3137.8
22.5°	3336.4	3354.8	3211.2	2988.1	2759.0	2639.8	2814.0	2914.8	3104.2	3363.9
25°	4011.7	3975.0	3800.8	3541.1	3180.6	2899.5	3000.3	3113.4	3345.6	3559.5
27.5°	4540.2	4497.5	4363.0	4048.3	3736.7	3281.4	3244.8	3315.0	3590.0	3782.5
30°	5062.7	5078.0	4986.3	4613.6	4228.6	3748.9	3516.7	3547.3	3758.1	4005.6
32.5°	5728.8	5692.1	5640.2	5313.2	4858.0	4344.7	3947.5	3898.6	3990.3	4317.2
35°	6349.0	6327.6	6257.3	5927.4	5530.2	4971.0	4583.0	4473.0	4451.6	4815.2
37.5°	6889.8	6853.1	6746.2	6535.4	6150.4	5679.9	5255.2	5157.4	5154.4	5404.9
40°	7345.0	7372.5	7360.3	7128.1	6917.3	6541.5	5890.7	5734.9	5722.7	5857.1
42.5°	7934.7	7998.9	7965.3	7919.4	7665.9	7519.2	6782.9	6544.5	6437.6	6712.6
45°	8826.9	8851.3	8872.7	8759.7	8506.1	8536.6	7705.6	7421.4	7393.9	7803.3
47.5°	9661.0	9596.8	9746.5	9752.6	9740.4	9599.9	8701.6	8490.8	8527.5	8839.1
50°	9868.8	10033.7	10446.2	10522.6	10721.2	10849.5	9807.6	9596.8	9657.9	10012.4
52.5°	10030.7	10281.2	10693.7	11252.8	11787.5	12093.0	11045.1	10874.0	10870.9	11087.8
55°	10314.8	10467.6	10825.1	11595.0	12612.4	13113.5	12536.1	12261.1	12013.6	12166.4
57.5°	10287.3	10345.4	10901.5	11851.7	13266.3	14176.8	13761.3	13498.5	13180.7	13092.1
60°	9804.6	9942.1	10565.4	11677.5	13669.6	15004.8	14904.0	14635.1	14088.2	13880.4
62.5°	8848.3	9031.6	9520.4	11066.4	13083.0	15047.6	15692.2	15591.4	14980.3	14607.6
65°	7170.9	7256.4	7818.6	9514.3	11757.0	14390.7	16624.1	16498.8	15936.7	15380.6
67.5°	4644.1	4726.6	5267.4	6792.0	9233.2	12694.9	16587.4	16932.7	16324.7	15655.6
70°	2193.7	2172.3	2676.5	3773.3	5915.1	9694.6	15466.1	16147.5	15631.1	14192.1
72.5°	669.1	727.2	1112.1	1671.3	3037.0	6046.5	12123.6	12762.2	12600.2	11338.4
75°	296.4	320.8	436.9	684.4	1231.3	2480.9	7488.6	8056.9	7986.7	6688.1
77.5°	189.4	207.8	275.0	391.1	559.1	788.3	3449.5	4002.5	3880.3	2349.6
80°	134.4	143.6	195.5	268.9	351.4	323.9	1188.5	1411.6	1353.5	638.6
82.5°	73.3	79.4	143.6	198.6	235.3	165.0	333.0	415.5	433.9	284.1
85°	27.5	33.6	88.6	140.5	122.2	76.4	97.8	119.2	155.8	155.8
87.5°	0.0	3.1	36.7	61.1	30.6	21.4	27.5	33.6	42.8	73.3
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°
2425.9	0°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2438.2	2.5°	2453.4	2432.1	2441.2	2456.5	2422.9	2441.2	2404.6	2432.1	2441.2	2404.6
2474.8	5°	2484.0	2505.4	2493.2	2468.7	2447.3	2453.4	2444.3	2422.9	2441.2	2447.3
2529.8	7.5°	2572.6	2548.2	2554.3	2526.8	2484.0	2480.9	2422.9	2407.6	2413.7	2419.8
2642.9	10°	2655.1	2670.4	2639.8	2618.4	2548.2	2502.3	2422.9	2337.3	2328.2	2291.5
2752.9	12.5°	2801.7	2765.1	2752.9	2682.6	2612.3	2459.5	2288.5	2157.1	2047.1	2007.4
2930.1	15°	2924.0	2917.9	2896.5	2789.5	2627.6	2349.6	2025.7	1720.2	1509.3	1378.0
3034.0	17.5°	3092.0	3064.5	3024.8	2856.7	2514.5	2062.4	1509.3	1124.4	913.5	831.1
3232.6	20°	3220.3	3198.9	3143.9	2841.5	2309.8	1536.8	934.9	714.9	663.0	647.7
3449.5	22.5°	3406.7	3339.5	3235.6	2765.1	1937.1	1023.5	672.2	638.6	629.4	617.2
3593.1	25°	3568.6	3507.5	3290.6	2633.7	1381.0	678.3	623.3	605.0	589.7	574.4
3745.8	27.5°	3712.2	3635.9	3348.7	2364.8	864.7	583.6	577.5	556.1	525.5	501.1
3923.1	30°	3852.8	3764.2	3363.9	1860.7	583.6	528.6	513.3	479.7	440.0	406.4
4219.4	32.5°	4088.0	3981.1	3342.5	1329.1	504.1	470.5	436.9	397.2	339.1	311.6
4644.1	35°	4454.7	4292.8	3315.0	782.2	452.2	415.5	363.6	311.6	268.9	241.4
5074.9	37.5°	4876.3	4595.2	3235.6	522.5	415.5	366.6	299.4	247.5	210.8	189.4
5664.6	40°	5502.7	5038.3	2930.1	427.7	369.7	311.6	241.4	195.5	168.0	152.8
6538.4	42.5°	6193.2	5545.4	2459.5	385.0	326.9	265.8	192.5	158.9	137.5	122.2
7412.3	45°	7021.2	6074.0	1897.4	351.4	290.3	220.0	158.9	128.3	110.0	97.8
8435.8	47.5°	7943.9	6553.7	1280.2	317.8	244.4	180.3	131.4	97.8	79.4	70.3
9551.0	50°	8768.8	6978.4	815.8	278.0	213.9	149.7	106.9	79.4	64.2	51.9
10452.3	52.5°	9517.4	7302.3	562.2	244.4	183.3	122.2	88.6	64.2	48.9	39.7
11387.3	55°	10284.3	7467.3	415.5	210.8	158.9	103.9	73.3	58.1	42.8	33.6
12462.7	57.5°	10913.7	7537.5	317.8	183.3	134.4	82.5	64.2	48.9	36.7	27.5
13287.7	60°	11451.4	7503.9	247.5	152.8	106.9	70.3	55.0	39.7	30.6	21.4
14363.2	62.5°	11766.1	7302.3	195.5	131.4	85.5	61.1	45.8	33.6	21.4	15.3
14916.2	65°	11772.2	6874.5	152.8	97.8	64.2	51.9	39.7	27.5	15.3	6.1
14570.9	67.5°	10929.0	5948.7	122.2	76.4	51.9	39.7	30.6	21.4	6.1	0.0
12102.2	70°	8548.8	4500.5	100.8	61.1	42.8	33.6	21.4	12.2	3.1	0.0
8078.3	72.5°	5447.7	2694.8	82.5	48.9	36.7	24.4	15.3	9.2	0.0	0.0
3687.8	75°	2279.3	831.1	64.2	42.8	27.5	18.3	12.2	3.1	0.0	0.0
965.5	77.5°	586.6	262.8	51.9	36.7	27.5	15.3	9.2	3.1	0.0	0.0
259.7	80°	174.2	97.8	42.8	30.6	21.4	12.2	6.1	3.1	0.0	0.0
125.3	82.5°	79.4	58.1	36.7	27.5	18.3	12.2	6.1	0.0	0.0	0.0
58.1	85°	30.6	18.3	18.3	15.3	15.3	9.2	3.1	0.0	0.0	0.0
21.4	87.5°	12.2	6.1	6.1	6.1	3.1	3.1	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°
2425.9
2422.9
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