

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: P575452

Luminaire Tested: **EPH-VN-06-735-U-SL4-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575452  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-SL4-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

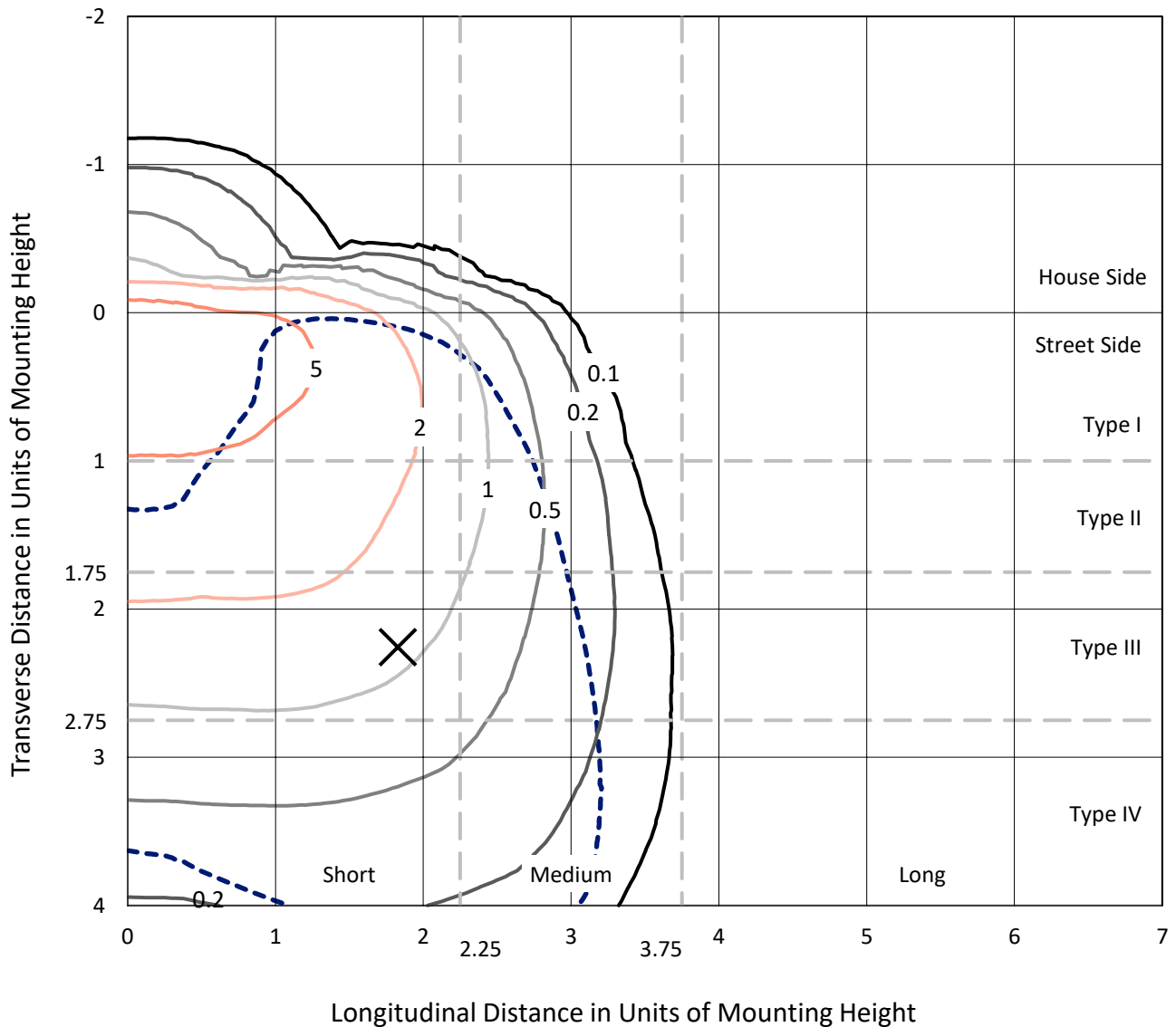
Lumens per Lamp: N/A  
Luminaire Lumens: 43113.5 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

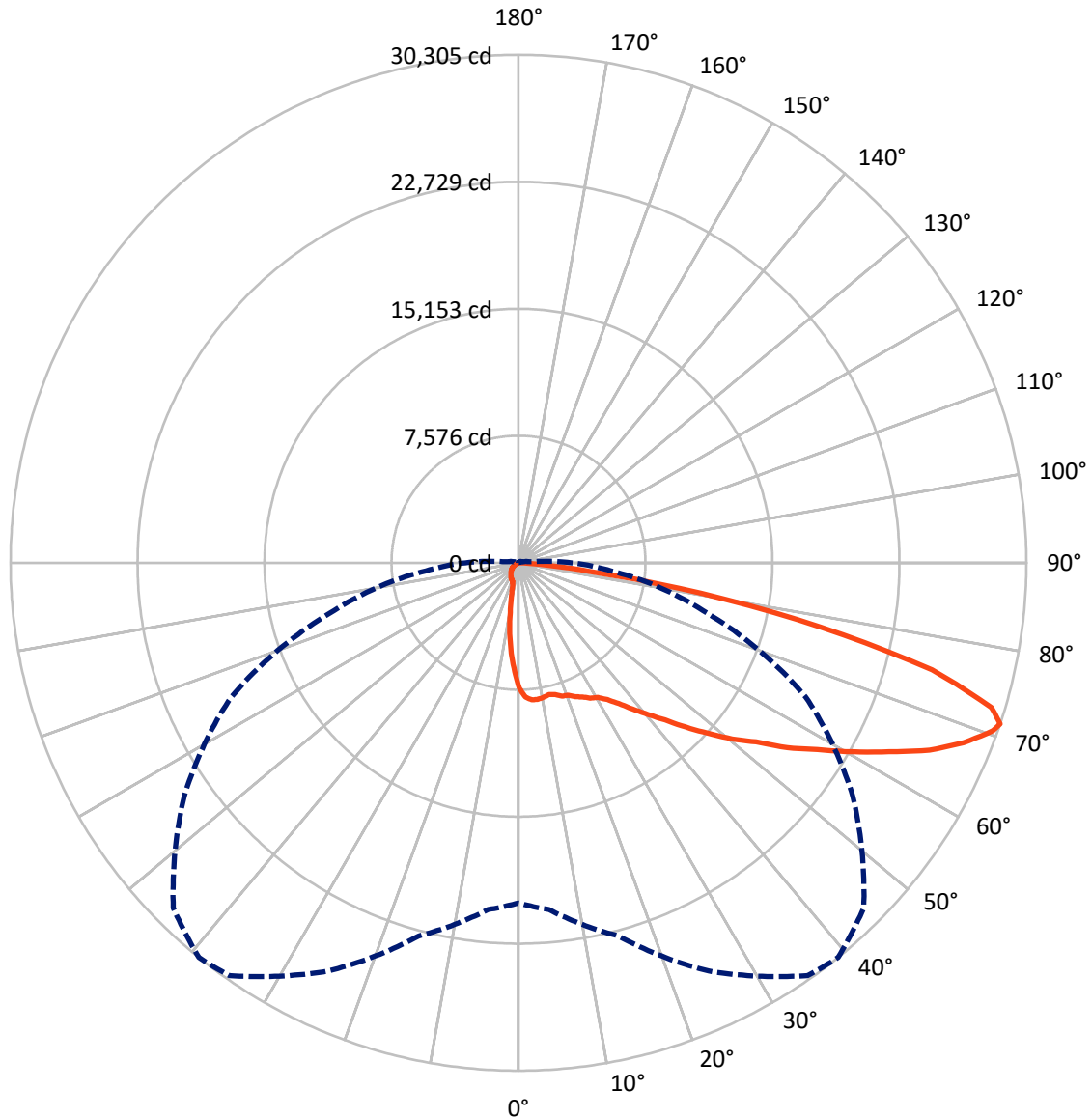
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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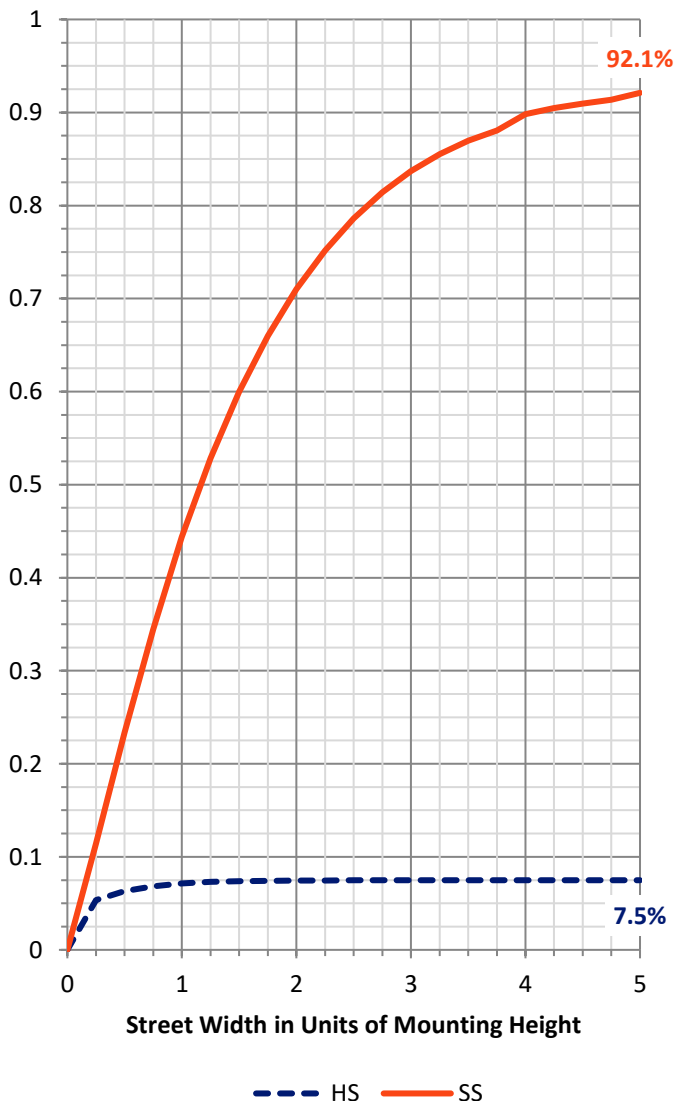
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3245.8	0.0	3245.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	39867.7	0.0	39867.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	43113.5	0.0	43113.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.4	1.5
10°-20°	1544.2	3.6
20°-30°	2479.0	5.8
30°-40°	3794.8	8.8
40°-50°	6091.3	14.1
50°-60°	8947.2	20.8
60°-70°	11268.6	26.1
70°-80°	7520.4	17.4
80°-90°	840.4	1.9
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°	43113.5	100.0
0°-180°	43113.5	100.0

**Coefficient of Utilization**



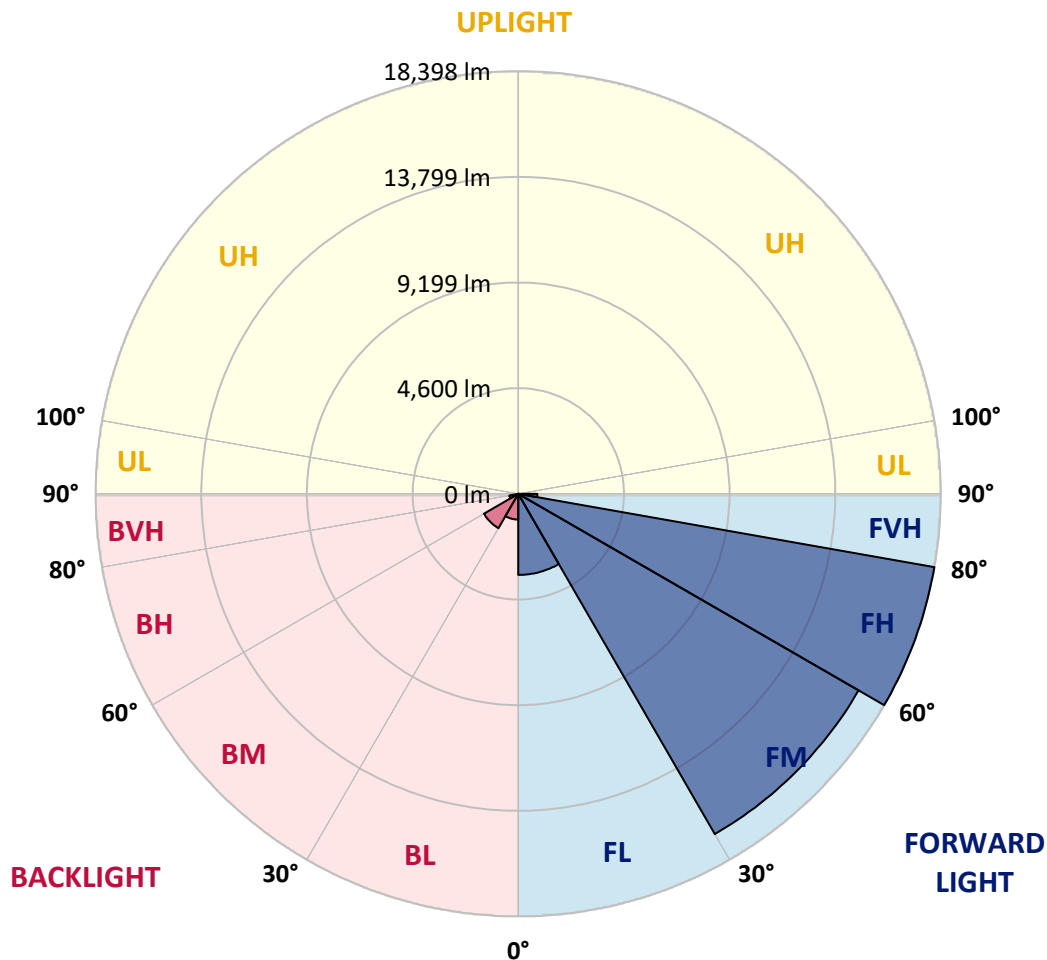
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3530.1	8.2			
FM (30°-60°)	17108.1	39.7			
FH (60°-80°)	18398.4	42.7			G5
FVH (80°-90°)	831.2	1.9			G5
BL (0°-30°)	1120.6	2.6	B3/2500		
BM (30°-60°)	1725.3	4.0	B2/2500		
BH (60°-80°)	390.7	0.9	B1/500		G1/500
BVH (80°-90°)	9.3	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°	35°	39°	45°	55°	65°	75°
0°	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2
2.5°	8086.6	8165.8	8086.6	8052.7	8018.8	8024.4	7934.0	7950.9	7843.5	7702.1
5°	8341.1	8448.6	8363.7	8324.1	8318.5	8211.0	8165.8	8058.4	7928.3	7707.8
7.5°	8318.5	8295.9	8335.5	8301.5	8228.0	8228.0	8177.1	8024.4	7894.4	7645.5
10°	8148.8	8216.7	8182.8	8143.2	8160.2	8165.8	8069.7	7962.2	7922.6	7673.8
12.5°	8131.9	8018.8	8143.2	8148.8	8075.3	8069.7	8058.4	8030.1	7905.7	7679.5
15°	8075.3	8030.1	8154.5	8160.2	8177.1	8160.2	8177.1	8154.5	8030.1	7900.0
17.5°	8120.6	8069.7	8245.0	8329.8	8290.2	8369.4	8341.1	8239.3	8131.9	7979.2
20°	8131.9	8205.4	8397.7	8431.6	8556.0	8425.9	8420.3	8312.8	8245.0	8081.0
22.5°	8341.1	8375.0	8612.6	8686.1	8691.7	8674.8	8533.4	8409.0	8380.7	8177.1
25°	8657.8	8776.5	8884.0	8929.2	8946.2	8867.0	8720.0	8561.7	8493.8	8363.7
27.5°	9217.6	9144.1	9240.3	9308.1	9115.8	9144.1	8957.5	8821.8	8725.7	8612.6
30°	9715.3	9647.4	9653.1	9641.8	9477.8	9325.1	9274.2	9036.7	8917.9	8963.2
32.5°	10162.0	10015.0	10139.4	10082.9	9777.5	9732.2	9692.7	9392.9	9415.6	9624.8
35°	10574.8	10523.9	10625.7	10523.9	10320.4	10309.1	10269.5	10009.3	10133.7	10433.5
37.5°	10953.7	10970.7	11095.1	11044.2	11061.2	11072.5	11049.9	10772.8	11129.0	11802.0
40°	11304.3	11281.7	11587.1	11745.4	11779.3	11903.8	11903.8	11835.9	12384.4	13142.2
42.5°	11677.6	11734.1	12130.0	12395.7	12718.1	12825.5	12972.6	13006.5	13854.7	14719.9
45°	12288.3	12192.2	12695.5	13323.2	13605.9	13984.8	14211.0	14403.3	15426.8	16614.4
47.5°	13063.0	12870.8	13311.9	14222.3	14878.3	15189.3	15596.5	15850.9	16851.9	18079.0
50°	13922.6	13724.7	13939.6	15195.0	15958.4	16523.9	17044.1	17366.5	18576.7	19719.0
52.5°	14895.3	14714.3	14748.2	16207.2	17332.6	17745.4	18429.6	18910.3	20114.8	20708.6
55°	15930.1	15884.9	15777.4	17196.8	18537.1	19464.5	19877.3	20454.1	21692.6	21245.8
57.5°	16970.6	16829.3	16981.9	18508.8	20471.1	21025.3	21596.4	21941.4	22569.1	21715.2
60°	17948.9	17960.3	18175.1	19933.8	22116.7	22902.7	23417.3	23208.1	23468.2	21918.8
62.5°	18774.6	18752.0	19294.8	21534.2	24293.8	24825.4	25210.0	24276.9	23886.7	22116.7
65°	19515.4	19769.9	20623.8	23439.9	26341.0	26951.7	26719.8	25289.1	24293.8	21534.2
67.5°	20075.2	20454.1	21935.7	25232.6	28218.4	28648.2	28325.9	26058.2	23813.2	19249.6
70°	20403.2	20787.8	22874.4	26725.5	29717.0	30028.0	29270.2	25464.4	21008.3	13939.6
71°	20301.4	20770.8	23055.4	26883.8	30073.3	30305.1	29128.9	24367.4	18893.3	11671.9
72.5°	19379.7	19820.7	22303.3	26770.7	29643.5	29502.1	28026.1	21732.1	14872.6	7442.0
75°	14239.3	14714.3	19142.1	23157.2	26459.7	25487.1	22682.2	15251.5	7758.6	2279.0
77.5°	7091.4	7170.5	11881.1	16812.3	19407.9	18440.9	15200.6	8505.1	2901.0	672.9
80°	3268.6	3291.2	4456.1	8708.7	11734.1	11044.2	8516.4	4196.0	1312.0	356.3
82.5°	2228.1	2262.0	2686.1	3607.9	5095.1	4297.8	3449.5	2686.1	752.1	214.9
85°	407.2	373.2	1504.2	1911.4	1967.9	1334.6	1193.2	2324.2	282.7	124.4
87.5°	0.0	5.7	209.2	780.4	701.2	311.0	407.2	565.5	28.3	39.6
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°
7504.2	0°	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2	7504.2
7589.0	2.5°	7492.9	7430.7	7221.4	6989.6	6780.3	6616.3	6407.1	6311.0	6158.3	6073.5
7572.0	5°	7385.4	7215.8	6853.9	6463.7	6028.2	5666.3	5264.8	5038.6	4778.5	4699.3
7413.7	7.5°	7204.5	6961.3	6429.7	5881.2	5213.9	4574.9	4082.9	3557.0	3234.7	3098.9
7294.9	10°	7091.4	6797.3	6073.5	5253.5	4320.4	3421.3	2731.4	2171.5	1877.5	1736.1
7323.2	12.5°	7091.4	6774.7	5785.1	4654.1	3415.6	2341.2	1690.8	1368.5	1272.4	1238.4
7447.6	15°	7074.4	6729.4	5508.0	4037.7	2527.8	1572.1	1261.1	1193.2	1181.9	1176.2
7566.4	17.5°	7159.2	6650.3	5225.2	3376.0	1787.0	1238.4	1159.3	1148.0	1136.7	1136.7
7639.9	20°	7221.4	6605.0	4885.9	2674.8	1334.6	1148.0	1114.0	1097.1	1091.4	1085.8
7656.9	22.5°	7170.5	6537.2	4467.4	2001.9	1164.9	1091.4	1068.8	1051.8	1040.5	1040.5
7832.2	25°	7266.7	6475.0	4049.0	1509.9	1091.4	1040.5	1017.9	1006.6	1000.9	995.3
8035.7	27.5°	7396.7	6503.2	3551.3	1215.8	1029.2	989.6	967.0	955.7	950.0	938.7
8352.4	30°	7555.1	6497.6	3002.8	1063.1	972.7	933.1	910.5	904.8	893.5	887.8
8827.4	32.5°	7826.5	6644.6	2437.3	984.0	910.5	876.5	853.9	848.2	842.6	836.9
9641.8	35°	8409.0	6825.6	1905.7	921.8	853.9	814.3	797.4	786.0	780.4	774.7
10591.8	37.5°	9127.2	7227.1	1453.3	865.2	797.4	757.8	740.8	735.1	712.5	706.9
11909.4	40°	10026.3	7656.9	1119.7	803.0	746.5	706.9	689.9	672.9	644.7	633.4
13255.3	42.5°	11146.0	8075.3	921.8	746.5	689.9	661.6	633.4	605.1	582.5	559.8
14601.2	45°	12265.7	8561.7	808.7	695.6	644.7	610.7	588.1	548.5	508.9	475.0
15873.6	47.5°	13198.8	8737.0	740.8	639.0	599.4	571.2	537.2	486.3	429.8	395.8
16801.0	50°	13894.3	8635.2	672.9	582.5	548.5	520.3	475.0	412.8	356.3	322.3
17129.0	52.5°	14030.0	8188.4	610.7	537.2	497.6	463.7	412.8	345.0	282.7	248.8
17485.2	55°	13933.9	7447.6	559.8	497.6	452.4	401.5	345.0	277.1	220.5	186.6
17349.5	57.5°	13736.0	6571.1	503.3	446.7	395.8	345.0	282.7	226.2	164.0	130.1
17038.5	60°	13063.0	5377.9	446.7	390.2	339.3	294.1	231.9	164.0	113.1	84.8
16495.6	62.5°	12124.3	4133.8	390.2	333.6	294.1	243.2	181.0	118.8	67.9	45.2
14968.8	65°	10410.8	2895.4	328.0	277.1	243.2	197.9	135.7	73.5	39.6	17.0
12192.2	67.5°	7911.3	1792.6	271.4	231.9	209.2	158.3	96.1	45.2	17.0	5.7
7606.0	70°	4541.0	933.1	214.9	186.6	164.0	118.8	67.9	22.6	11.3	0.0
5547.5	71°	3172.5	689.9	192.3	164.0	147.0	107.4	56.5	17.0	5.7	0.0
2867.1	72.5°	1589.1	458.1	164.0	135.7	118.8	84.8	45.2	17.0	5.7	0.0
836.9	75°	565.5	294.1	113.1	90.5	84.8	62.2	28.3	11.3	5.7	0.0
418.5	77.5°	390.2	237.5	79.2	56.5	56.5	39.6	17.0	5.7	5.7	0.0
328.0	80°	356.3	130.1	50.9	33.9	28.3	22.6	11.3	5.7	0.0	0.0
322.3	82.5°	356.3	96.1	28.3	22.6	17.0	11.3	5.7	0.0	0.0	0.0
282.7	85°	248.8	50.9	17.0	17.0	11.3	5.7	0.0	0.0	0.0	0.0
50.9	87.5°	39.6	17.0	11.3	5.7	5.7	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°  
7504.2  
6067.8  
4682.3  
3048.0  
1702.2  
1238.4  
1170.6  
1125.3  
1097.1  
1046.2  
984.0  
950.0  
893.5  
831.3  
769.1  
701.2  
622.0  
548.5  
469.4  
390.2  
311.0  
243.2  
181.0  
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79.2  
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