

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: P575338

Luminaire Tested: **EPH-VN-06-740-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575338
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

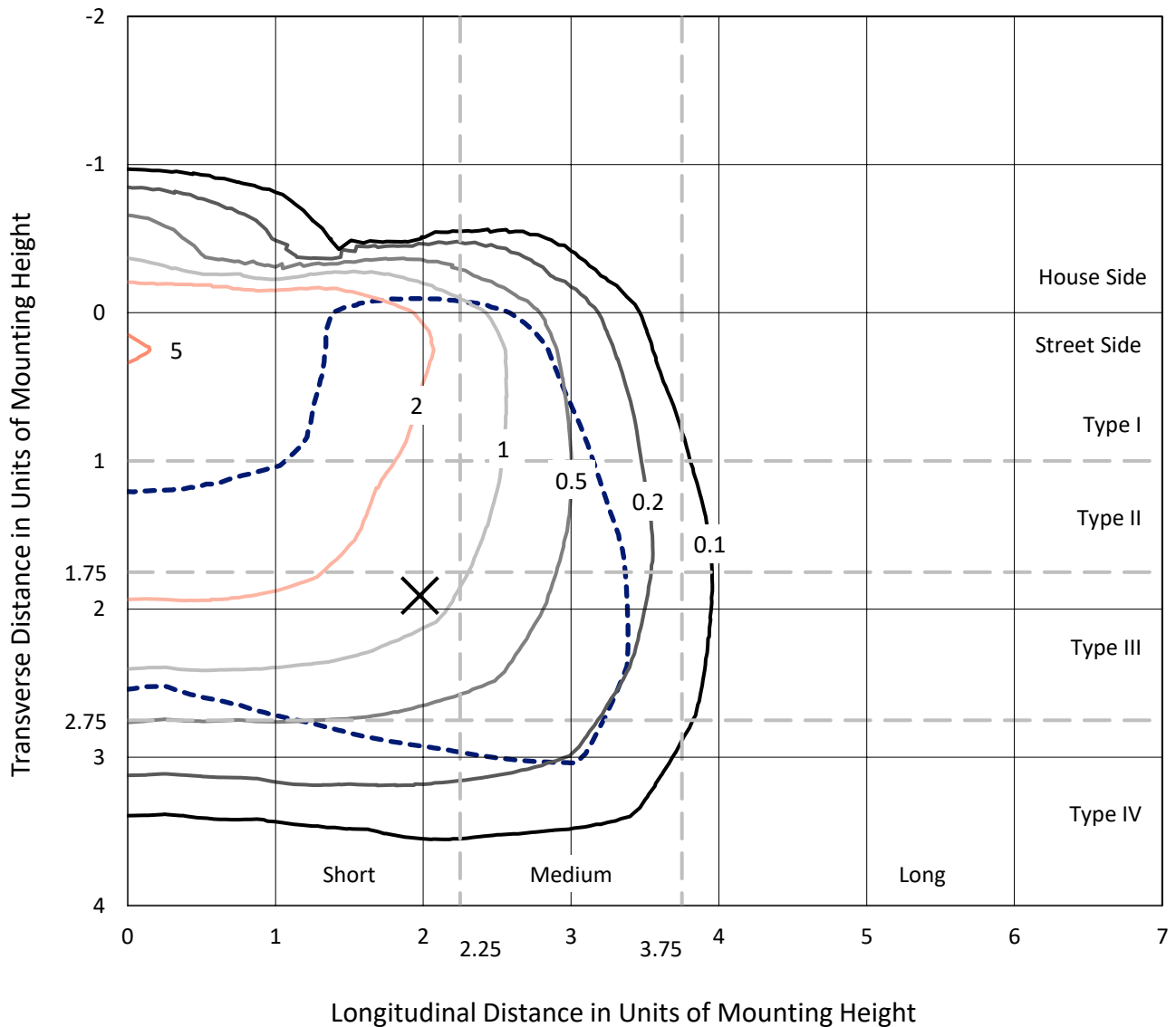
Lumens per Lamp: N/A
Luminaire Lumens: 33735.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

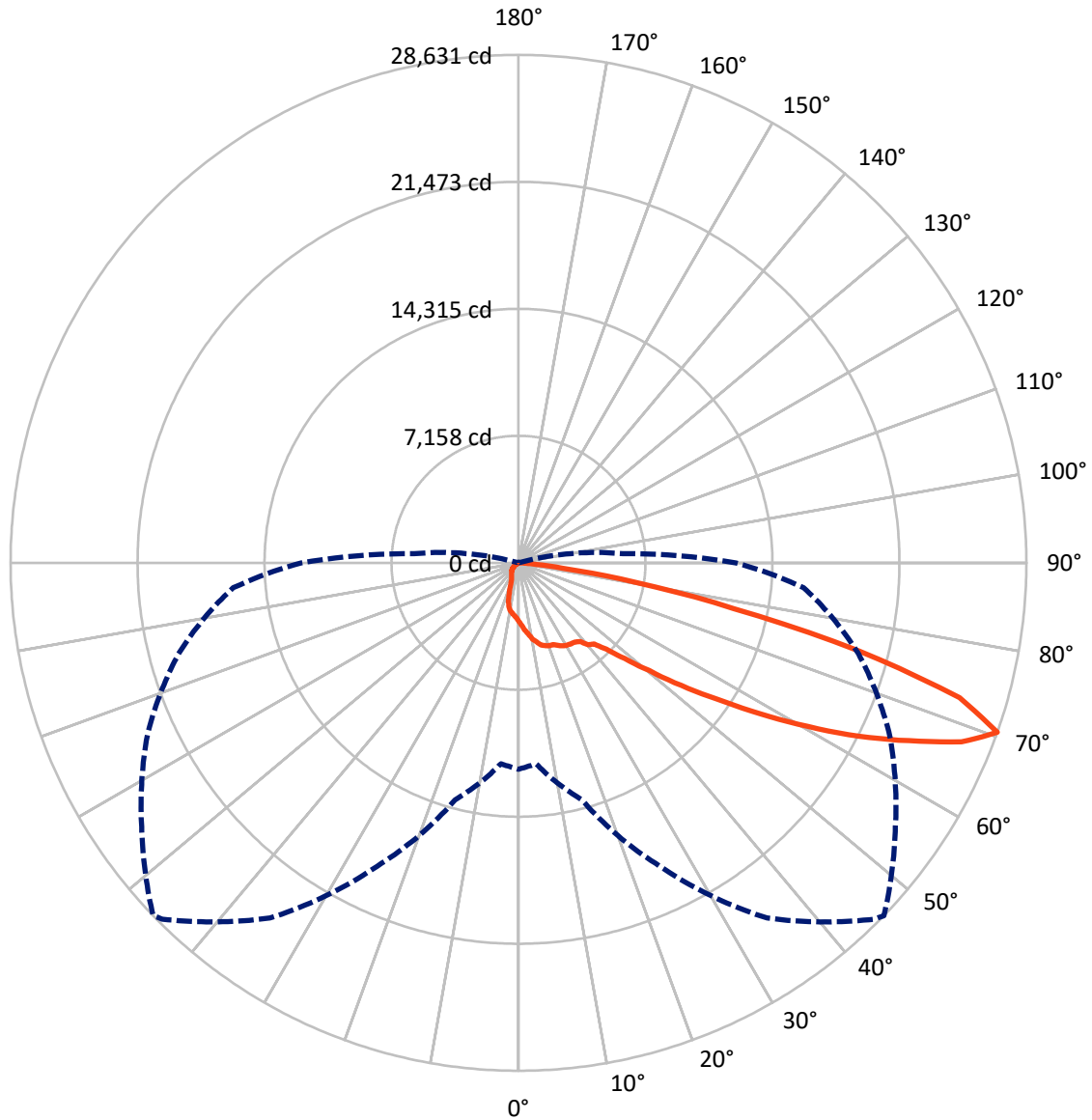
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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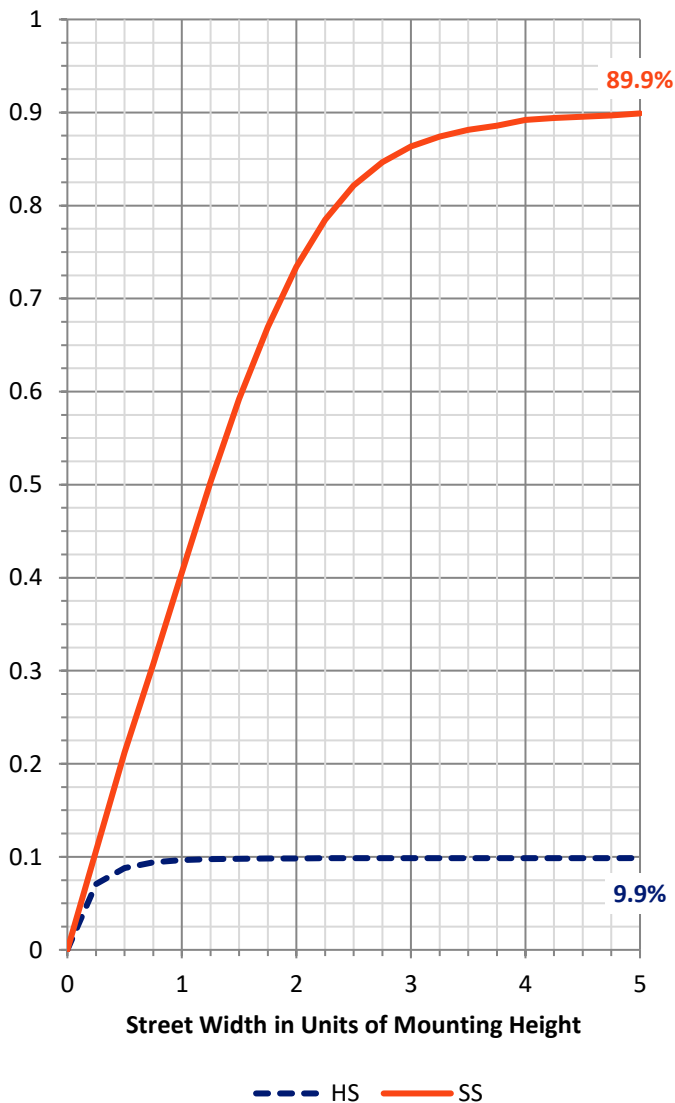
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3356.8	0.0	3356.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	30378.6	0.0	30378.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	33735.4	0.0	33735.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	1.0
10°-20°	997.2	3.0
20°-30°	1597.4	4.7
30°-40°	2280.0	6.8
40°-50°	3937.0	11.7
50°-60°	7537.7	22.3
60°-70°	11162.1	33.1
70°-80°	5528.5	16.4
80°-90°	365.3	1.1
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°	33735.4	100.0
0°-180°	33735.4	100.0

Coefficient of Utilization

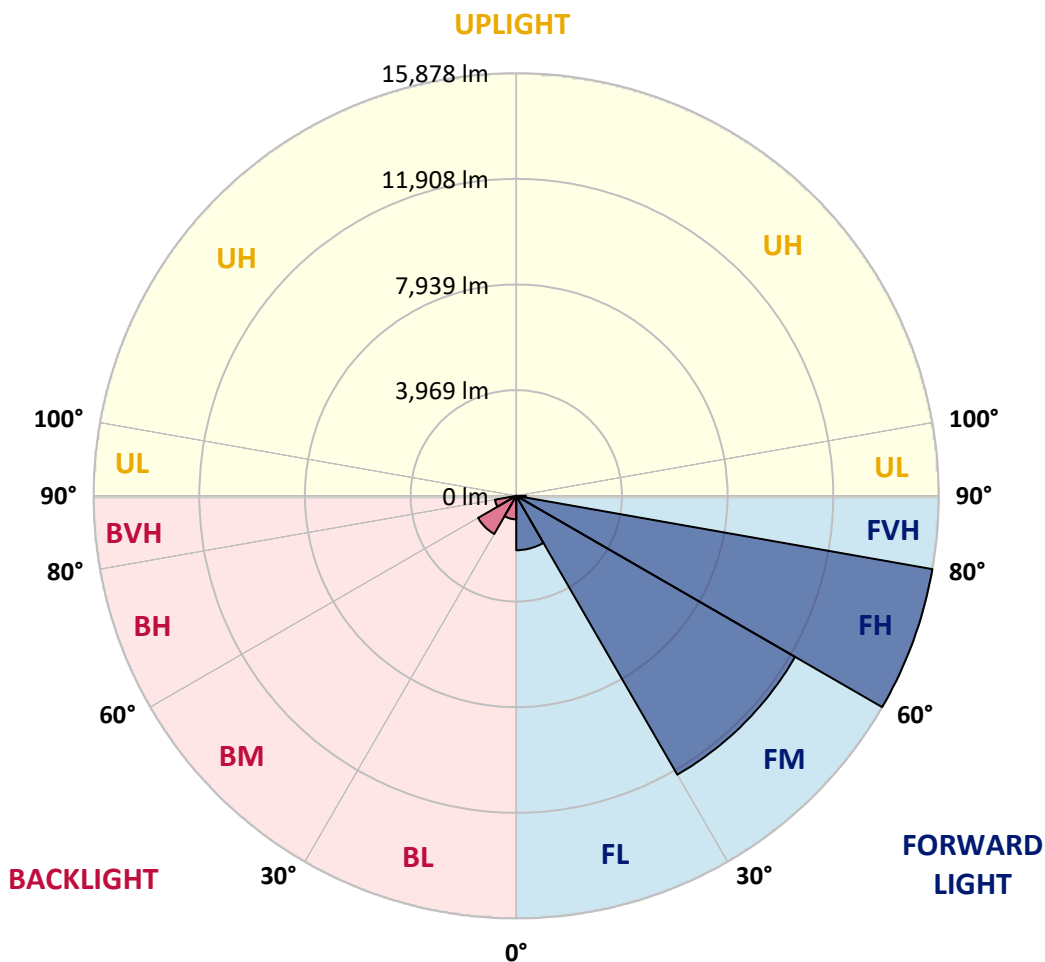


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.9	6.1			
FM (30°-60°)	12097.4	35.9			
FH (60°-80°)	15877.6	47.1			G5
FVH (80°-90°)	360.7	1.1			G3/500
BL (0°-30°)	881.9	2.6	B2/1000		
BM (30°-60°)	1657.2	4.9	B2/2500		
BH (60°-80°)	813.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8
2.5°	3695.4	3671.1	3632.3	3617.7	3578.8	3559.4	3530.3	3515.7	3462.3	3408.9
5°	4147.0	4088.7	4108.1	4049.9	3923.6	3821.6	3816.8	3705.1	3583.7	3486.6
7.5°	4603.5	4554.9	4482.1	4399.5	4258.7	4108.1	4064.4	3957.6	3787.6	3617.7
10°	4948.2	4914.2	4851.1	4734.6	4540.3	4370.4	4375.2	4195.6	4015.9	3821.6
12.5°	5161.9	5176.5	5084.2	4967.6	4797.7	4584.0	4579.2	4457.8	4253.8	4049.9
15°	5375.5	5429.0	5288.1	5152.2	4933.7	4778.3	4807.4	4661.7	4462.6	4229.5
17.5°	5409.5	5424.1	5395.0	5195.9	5035.6	4904.5	4909.4	4812.3	4661.7	4409.2
20°	5351.3	5341.6	5307.6	5161.9	5055.1	4977.4	4982.2	4957.9	4875.4	4671.4
22.5°	5181.3	5181.3	5137.6	5040.5	4991.9	5064.8	5006.5	5098.8	5011.4	4890.0
25°	5045.3	5098.8	5074.5	5011.4	5030.8	5127.9	5157.0	5244.4	5229.9	5079.3
27.5°	5191.0	5127.9	5142.5	5069.6	5142.5	5288.1	5302.7	5365.8	5361.0	5239.6
30°	5288.1	5346.4	5234.7	5074.5	5152.2	5399.8	5390.1	5472.7	5511.5	5365.8
32.5°	5598.9	5550.4	5458.1	5244.4	5254.1	5395.0	5438.7	5545.5	5569.8	5482.4
35°	6235.1	6162.2	5759.2	5438.7	5390.1	5458.1	5487.2	5696.0	5739.7	5642.6
37.5°	7216.0	7050.9	6565.3	5856.3	5637.8	5623.2	5623.2	5900.0	6065.1	5841.7
40°	8619.3	8386.2	7861.8	6628.4	5963.1	6021.4	6079.7	6230.2	6210.8	6065.1
42.5°	10406.3	10226.7	9658.5	7924.9	6584.7	6293.3	6244.8	6448.7	6754.6	6696.4
45°	11897.1	11906.8	11542.6	9702.2	7657.9	6919.7	6953.7	7109.1	7623.9	7580.2
47.5°	12984.8	12848.9	12795.5	11416.4	9221.5	8109.5	8060.9	8167.7	8837.8	9114.6
50°	13975.5	13883.2	13756.9	13082.0	11100.7	9600.2	9551.7	9561.4	10586.0	10974.5
52.5°	15204.0	15320.6	14902.9	14490.2	13533.6	11537.8	11484.3	11295.0	12567.2	13101.4
55°	16719.1	16500.6	16029.5	16243.2	15859.6	13630.7	13533.6	13310.2	14825.2	15048.6
57.5°	17054.1	16889.0	17374.6	18132.2	18501.2	16087.8	16049.0	15645.9	16723.9	16520.0
60°	17889.4	17933.1	18608.0	20113.4	20754.4	18923.7	18734.3	18025.3	18564.3	18603.2
62.5°	18748.9	18646.9	20157.1	21604.2	22589.9	21609.0	21545.9	20137.7	20749.5	20254.2
65°	18117.6	18273.0	20433.9	22857.0	24969.4	24236.1	24182.7	22172.3	22507.4	21890.7
67.5°	15874.1	15558.5	18583.8	22284.0	26193.1	26989.4	26931.2	24391.5	23498.0	21881.0
70°	11634.9	11362.9	13829.8	18870.3	24440.1	28397.7	28630.7	25935.7	23095.0	19841.5
72.5°	5700.9	5705.8	7750.1	12795.5	19336.4	25882.3	25998.8	23779.6	19841.5	14626.2
75°	1685.0	1704.4	2869.9	6273.9	12499.2	19656.9	19788.0	18049.6	13752.1	7555.9
77.5°	616.7	616.7	951.8	2355.1	6235.1	12407.0	12397.3	11081.3	6963.4	2559.1
80°	320.5	335.1	495.3	961.5	2699.9	6463.3	6706.1	5424.1	2646.5	1078.0
82.5°	131.1	145.7	271.9	495.3	1296.5	2267.7	2481.4	2126.9	1150.9	752.7
85°	38.8	43.7	131.1	276.8	509.9	568.1	631.3	713.8	723.5	582.7
87.5°	4.9	4.9	53.4	92.3	111.7	121.4	140.8	140.8	369.1	407.9
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°
3311.8	0°	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8	3311.8
3374.9	2.5°	3336.0	3311.8	3272.9	3185.5	3166.1	3103.0	3098.1	3039.8	3059.3	3020.4
3355.5	5°	3311.8	3258.3	3151.5	3083.5	3015.6	2971.8	2942.7	2918.4	2913.6	2894.2
3442.9	7.5°	3355.5	3282.6	3117.5	3010.7	2894.2	2855.3	2792.2	2787.3	2753.3	2719.3
3583.7	10°	3501.1	3370.0	3190.4	3010.7	2860.2	2733.9	2588.2	2481.4	2442.5	2355.1
3768.2	12.5°	3617.7	3501.1	3238.9	3054.4	2826.2	2539.7	2219.2	1971.5	1855.0	1743.3
3918.8	15°	3782.8	3612.8	3331.2	3064.1	2695.1	2199.8	1675.3	1398.5	1291.7	1267.4
4142.1	17.5°	3962.5	3782.8	3447.7	3039.8	2428.0	1699.6	1233.4	1073.2	1092.6	1121.7
4307.2	20°	4161.6	3943.0	3535.1	2957.3	2005.5	1233.4	1010.0	1005.2	1034.3	1078.0
4588.9	22.5°	4370.4	4181.0	3642.0	2709.6	1495.6	990.6	971.2	971.2	990.6	1044.0
4783.1	25°	4603.5	4350.9	3695.4	2326.0	1073.2	912.9	922.6	942.1	951.8	995.5
4957.9	27.5°	4783.1	4540.3	3710.0	1864.7	874.1	844.9	869.2	893.5	908.1	942.1
5123.0	30°	4948.2	4778.3	3632.3	1388.8	801.2	786.7	796.4	830.4	859.5	888.6
5283.3	32.5°	5157.0	4914.2	3452.6	985.8	757.5	733.3	728.4	743.0	777.0	810.9
5453.2	35°	5370.7	5142.5	3166.1	791.5	718.7	684.7	665.3	650.7	665.3	689.5
5705.8	37.5°	5681.5	5487.2	2806.7	728.4	689.5	641.0	602.1	568.1	543.9	539.0
6036.0	40°	6123.4	5875.7	2345.4	684.7	655.6	597.3	539.0	480.7	427.3	393.3
6676.9	42.5°	6793.5	6448.7	1845.3	660.4	631.3	548.7	466.2	383.6	315.6	281.6
7575.3	45°	7750.1	7206.2	1354.8	636.1	602.1	490.5	383.6	286.5	218.5	199.1
9240.9	47.5°	9192.3	8119.2	971.2	597.3	563.3	427.3	301.1	204.0	160.2	150.5
11285.3	50°	11076.4	9202.0	757.5	553.6	514.7	359.3	223.4	150.5	126.3	121.4
13470.4	52.5°	13052.8	10294.6	665.3	514.7	441.9	286.5	165.1	121.4	106.8	102.0
15437.1	55°	14742.7	10998.8	577.9	456.5	354.5	213.7	131.1	106.8	92.3	77.7
17617.4	57.5°	16452.0	11353.2	456.5	378.8	262.2	160.2	111.7	92.3	77.7	63.1
19773.5	60°	17840.8	11605.7	325.3	281.6	184.5	126.3	97.1	82.6	63.1	48.6
21803.3	62.5°	18753.7	10882.2	237.9	213.7	136.0	106.8	82.6	68.0	48.6	34.0
22628.8	65°	18302.1	9881.9	184.5	150.5	102.0	82.6	68.0	48.6	34.0	19.4
20914.6	67.5°	16422.9	8051.2	150.5	111.7	77.7	63.1	53.4	38.8	19.4	4.9
16136.4	70°	12251.6	5900.0	121.4	82.6	63.1	48.6	38.8	24.3	9.7	4.9
9138.9	72.5°	6701.2	3229.2	97.1	68.0	48.6	38.8	29.1	19.4	9.7	0.0
3117.5	75°	2214.3	859.5	72.8	48.6	29.1	24.3	19.4	14.6	4.9	0.0
728.4	77.5°	534.2	223.4	58.3	43.7	24.3	14.6	9.7	4.9	4.9	0.0
213.7	80°	165.1	92.3	43.7	29.1	19.4	14.6	4.9	0.0	0.0	0.0
97.1	82.5°	68.0	43.7	19.4	19.4	14.6	4.9	0.0	0.0	0.0	0.0
43.7	85°	34.0	24.3	14.6	9.7	9.7	4.9	0.0	0.0	0.0	0.0
24.3	87.5°	24.3	9.7	4.9	4.9	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°
3311.8
3005.8
2884.4
2719.3
2364.9
1787.0
1262.5
1116.9
1087.7
1034.3
1000.3
956.6
888.6
810.9
709.0
553.6
398.2
281.6
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155.4
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