

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: P574896

Luminaire Tested: **EPH-VN-04-740-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574896
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

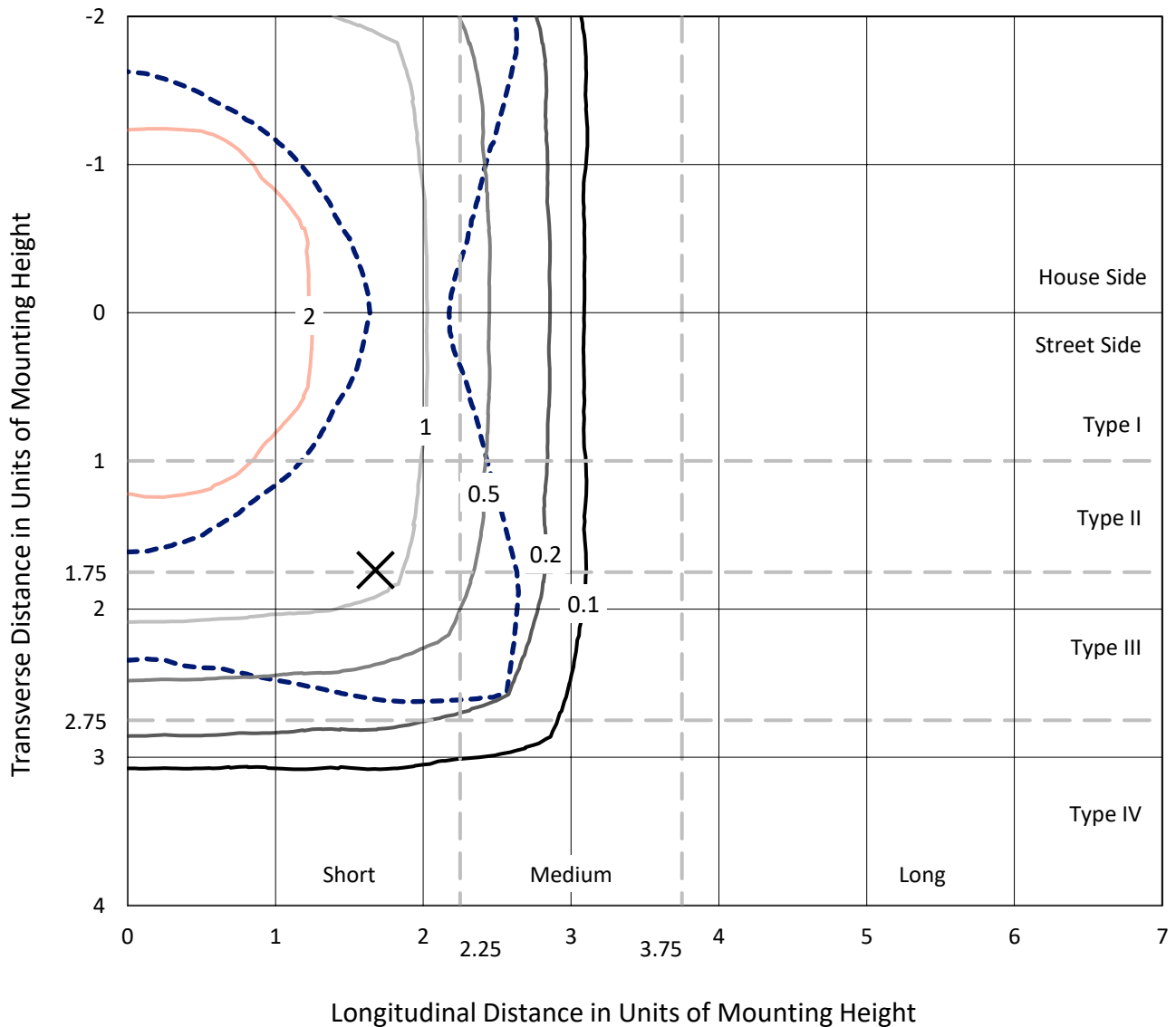
Lumens per Lamp: N/A
Luminaire Lumens: 35303.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 303.8
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

REPORT NUMBER: P574896
 CATALOG NUMBER: EPH-VN-04-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

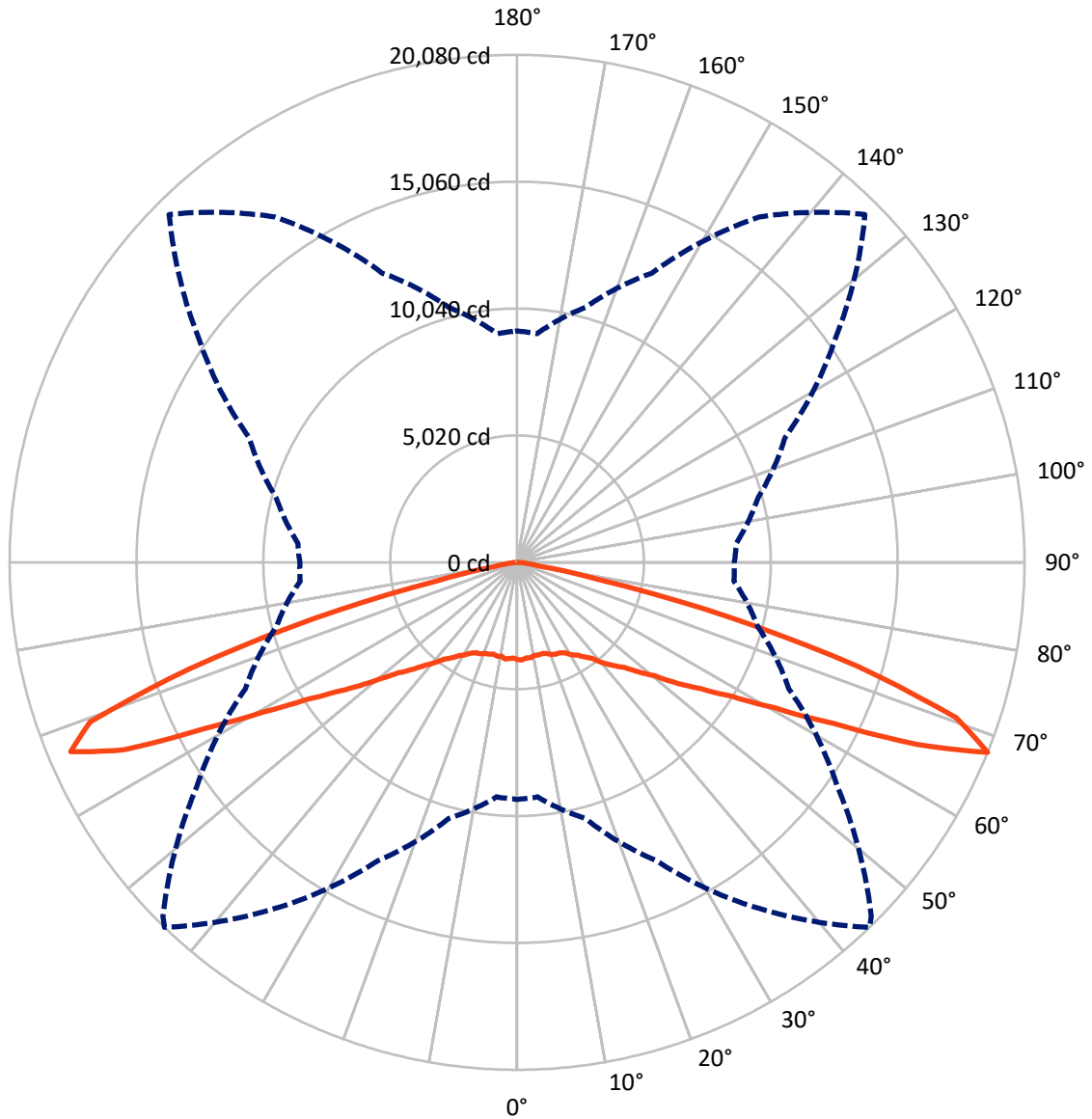
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P574896
CATALOG NUMBER: EPH-VN-04-740-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P574896
 CATALOG NUMBER: EPH-VN-04-740-U-5MQ

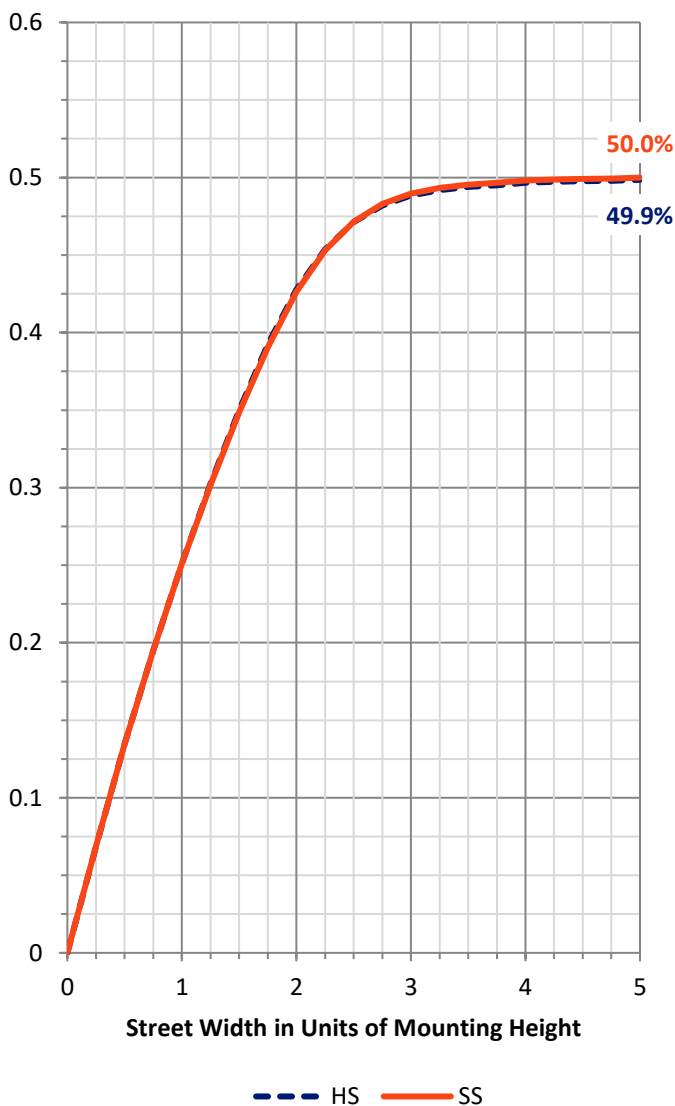
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17606.7	0.0	17606.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17697.1	0.0	17697.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	35303.7	0.0	35303.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.0
10°-20°	1066.1	3.0
20°-30°	1813.0	5.1
30°-40°	2874.5	8.1
40°-50°	4687.2	13.3
50°-60°	8005.1	22.7
60°-70°	12175.7	34.5
70°-80°	4104.0	11.6
80°-90°	213.1	0.6
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°	35303.7	100.0
0°-180°	35303.7	100.0

Coefficient of Utilization

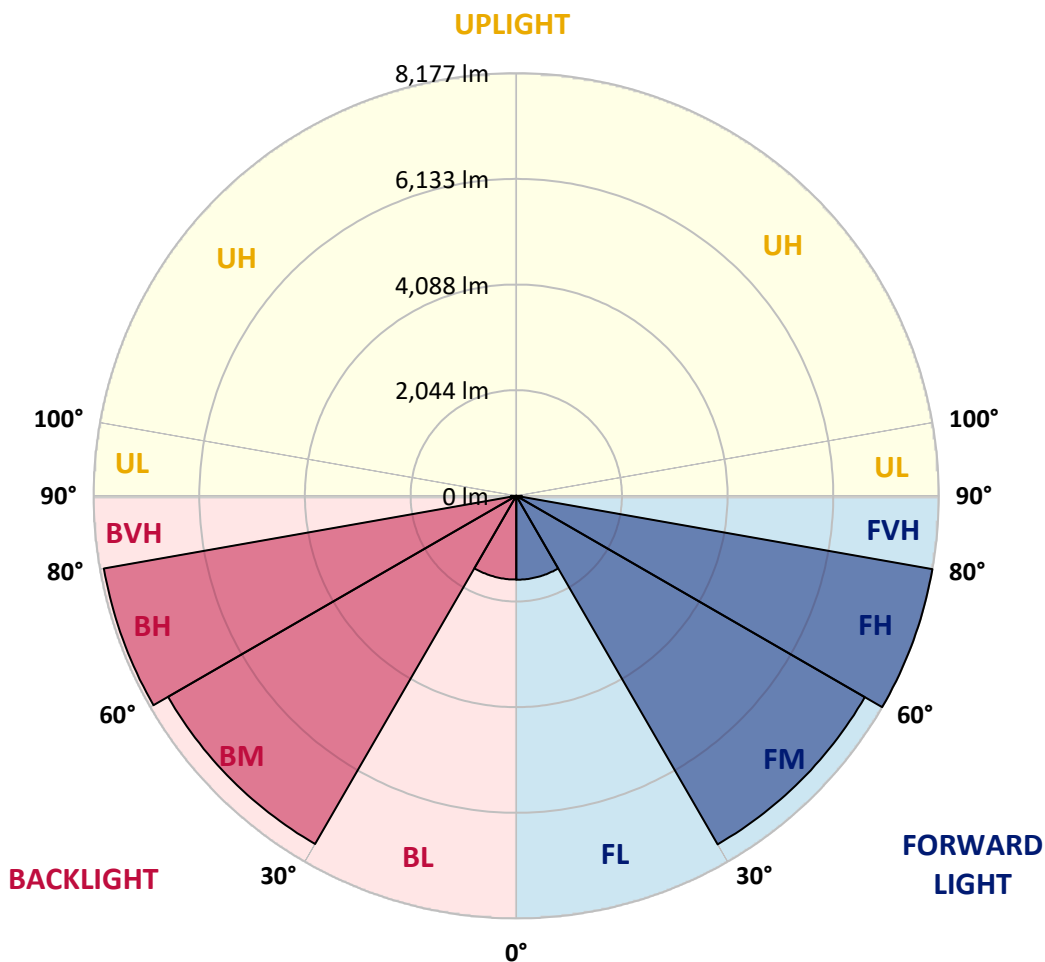


REPORT NUMBER: P574896
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.7	4.6			
FM (30°-60°)	7787.7	22.1			
FH (60°-80°)	8176.7	23.2			G4/12000
FVH (80°-90°)	109.0	0.3			G2/225
BL (0°-30°)	1620.3	4.6	B3/2500		
BM (30°-60°)	7779.3	22.0	B4/8500		
BH (60°-80°)	8103.0	23.0	B5		G4/12000
BVH (80°-90°)	104.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





REPORT NUMBER: P574896
 CATALOG NUMBER: EPH-VN-04-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3
2.5°	3767.7	3812.0	3844.2	3840.2	3852.3	3864.4	3848.3	3872.4	3856.3	3884.5
5°	3840.2	3828.1	3832.1	3808.0	3864.4	3799.9	3799.9	3832.1	3872.4	3824.1
7.5°	3795.9	3787.8	3767.7	3803.9	3816.0	3816.0	3848.3	3787.8	3856.3	3872.4
10°	3747.5	3703.2	3763.6	3799.9	3808.0	3743.5	3771.7	3787.8	3767.7	3787.8
12.5°	3707.2	3731.4	3731.4	3731.4	3719.3	3763.6	3791.9	3787.8	3747.5	3783.8
15°	3703.2	3691.1	3727.4	3759.6	3739.5	3747.5	3759.6	3795.9	3719.3	3735.4
17.5°	3699.2	3715.3	3727.4	3723.3	3791.9	3791.9	3779.8	3755.6	3816.0	3783.8
20°	3715.3	3703.2	3735.4	3747.5	3795.9	3892.6	3856.3	3836.2	3803.9	3763.6
22.5°	3735.4	3727.4	3771.7	3824.1	3916.8	3940.9	3936.9	3912.7	3856.3	3808.0
25°	3808.0	3735.4	3783.8	3884.5	3916.8	3965.1	3997.4	3965.1	3888.6	3900.6
27.5°	3916.8	3904.7	3969.2	4037.7	4009.4	4053.8	4025.6	4049.7	4053.8	3993.3
30°	4045.7	4009.4	4049.7	4182.7	4194.8	4243.2	4194.8	4130.3	4150.5	4098.1
32.5°	4231.1	4219.0	4295.6	4384.2	4400.3	4376.1	4352.0	4388.2	4303.6	4263.3
35°	4352.0	4404.3	4497.0	4565.5	4617.9	4593.7	4605.8	4569.6	4589.7	4505.1
37.5°	4710.6	4690.5	4710.6	4827.5	4839.5	4827.5	4839.5	4879.8	4851.6	4779.1
40°	5049.1	5016.8	5065.2	5198.2	5190.1	5230.4	5149.8	5194.2	5194.2	5057.1
42.5°	5302.9	5411.7	5468.2	5577.0	5617.3	5581.0	5564.9	5572.9	5661.6	5500.4
45°	5826.8	5822.8	5992.0	6052.5	5939.6	5931.6	5899.3	5996.0	6056.5	5963.8
47.5°	6395.0	6423.2	6519.9	6544.1	6612.6	6487.7	6487.7	6499.7	6713.3	6495.7
50°	6906.7	6943.0	7136.4	7325.8	7196.9	7063.9	7116.3	7180.7	7297.6	7092.1
52.5°	7527.3	7724.7	7853.7	7954.4	8047.1	7954.4	7833.5	7906.1	8135.8	7861.7
55°	8421.9	8579.0	8699.9	8885.3	8961.8	8836.9	8824.8	8816.8	8945.7	8655.6
57.5°	9421.2	9356.7	9550.1	9836.2	10114.3	9993.4	9957.1	9965.2	9997.4	9586.4
60°	10662.3	10734.8	10964.5	11214.4	11508.5	11677.8	11440.0	11303.0	11331.2	10771.1
62.5°	11371.5	11532.7	12052.5	12910.8	13503.2	14031.1	14067.3	13176.8	12580.4	11492.4
65°	11029.0	11004.8	11984.0	13571.7	15816.2	17351.4	17121.8	14961.9	12878.6	11149.9
67.5°	9380.9	9316.4	10501.1	13019.6	16726.9	20079.5	19817.6	15465.6	11871.2	9864.5
70°	6044.4	6028.3	7313.7	9924.9	14933.7	18435.4	18532.1	14047.2	9663.0	7225.1
72.5°	2196.1	2329.1	3074.6	5335.2	10142.5	14103.6	14164.0	10400.4	5556.8	3340.5
75°	809.9	834.1	971.1	1732.7	4621.9	8659.6	8885.3	5045.1	1974.5	1088.0
77.5°	467.4	471.5	519.8	644.7	1370.1	3380.8	3517.8	1531.2	765.6	580.3
80°	318.3	314.3	366.7	419.1	548.0	959.0	1019.5	640.7	483.6	403.0
82.5°	185.4	197.5	270.0	298.2	334.5	423.1	431.2	398.9	362.7	298.2
85°	112.8	92.7	149.1	165.2	193.4	189.4	189.4	217.6	233.7	209.5
87.5°	28.2	28.2	36.3	40.3	52.4	40.3	44.3	84.6	112.8	104.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574896

CATALOG NUMBER: EPH-VN-04-740-U-5MQ

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3856.3	0°	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3	3856.3
3900.6	2.5°	3864.4	3852.3	3860.4	3904.7	3876.5	3791.9	3812.0	3856.3	3820.1	3799.9
3852.3	5°	3848.3	3872.4	3844.2	3852.3	3880.5	3812.0	3824.1	3880.5	3856.3	3864.4
3876.5	7.5°	3852.3	3864.4	3840.2	3803.9	3803.9	3860.4	3828.1	3836.2	3799.9	3860.4
3799.9	10°	3828.1	3795.9	3767.7	3787.8	3779.8	3763.6	3751.6	3775.7	3739.5	3791.9
3719.3	12.5°	3755.6	3763.6	3755.6	3747.5	3763.6	3803.9	3739.5	3747.5	3691.1	3699.2
3735.4	15°	3727.4	3751.6	3743.5	3787.8	3808.0	3747.5	3795.9	3747.5	3703.2	3679.0
3739.5	17.5°	3739.5	3775.7	3763.6	3795.9	3759.6	3803.9	3812.0	3791.9	3739.5	3719.3
3763.6	20°	3751.6	3739.5	3755.6	3812.0	3864.4	3820.1	3820.1	3808.0	3759.6	3731.4
3799.9	22.5°	3779.8	3759.6	3783.8	3828.1	3844.2	3912.7	3852.3	3824.1	3743.5	3671.0
3828.1	25°	3836.2	3848.3	3864.4	3848.3	3936.9	3928.9	3920.8	3900.6	3775.7	3779.8
3920.8	27.5°	3945.0	3876.5	3896.6	3993.3	4005.4	4037.7	3997.4	4033.6	3900.6	3904.7
4061.8	30°	4078.0	4005.4	4069.9	4154.5	4150.5	4210.9	4190.8	4198.8	4106.2	4053.8
4198.8	32.5°	4223.0	4215.0	4255.3	4307.6	4327.8	4360.0	4356.0	4356.0	4299.6	4162.6
4476.9	35°	4384.2	4440.6	4489.0	4545.4	4553.4	4593.7	4537.3	4545.4	4489.0	4388.2
4706.6	37.5°	4702.5	4698.5	4750.9	4819.4	4827.5	4795.2	4839.5	4819.4	4742.8	4674.3
5028.9	40°	5073.3	4992.7	5041.0	5202.2	5214.3	5157.9	5153.9	5149.8	5093.4	4944.3
5440.0	42.5°	5395.6	5500.4	5492.3	5544.7	5508.5	5480.3	5581.0	5524.6	5480.3	5323.1
5939.6	45°	5810.7	5842.9	5947.7	6116.9	5943.7	5943.7	6012.2	5967.8	5943.7	5826.8
6382.9	47.5°	6326.5	6354.7	6564.2	6576.3	6463.5	6386.9	6600.5	6608.5	6507.8	6419.1
6995.4	50°	6930.9	6943.0	7132.4	7325.8	7200.9	7055.8	7273.4	7358.0	7132.4	7011.5
7740.9	52.5°	7595.8	7559.5	7716.7	8079.3	7958.5	7914.1	8147.8	8168.0	7861.7	7672.4
8490.4	55°	8361.4	8313.1	8740.2	8986.0	8909.4	8828.8	8933.6	8982.0	8736.2	8425.9
9461.5	57.5°	9352.7	9376.9	9590.4	9832.2	9957.1	9977.3	10025.6	9977.3	9727.4	9413.1
10577.7	60°	10344.0	10416.5	10831.6	11286.9	11327.2	11681.8	11617.3	11375.6	11020.9	10573.7
10670.4	62.5°	10710.7	10650.2	11319.1	12431.3	13378.3	14027.0	13740.9	12882.6	12060.6	11246.6
10045.8	65°	9973.3	10122.3	11033.0	12773.8	14828.9	17395.8	15872.6	13499.1	11839.0	10787.2
8615.3	67.5°	8595.1	8708.0	9864.5	11701.9	15348.7	19467.0	16678.5	12628.8	10440.7	9078.7
5988.0	70°	5988.0	6044.4	7176.7	9586.4	13918.2	18370.9	15046.5	9699.2	7208.9	5746.2
2462.1	72.5°	2409.7	2546.7	3292.2	5774.4	10275.5	13958.5	10130.4	5089.4	2990.0	2224.3
886.5	75°	890.5	894.6	1051.7	1986.6	4879.8	8772.4	4569.6	1636.0	955.0	781.7
535.9	77.5°	515.8	511.8	548.0	717.3	1414.4	3425.2	1297.5	640.7	519.8	467.4
338.5	80°	322.4	318.3	374.8	475.5	620.6	938.9	548.0	398.9	350.6	302.2
221.6	82.5°	205.5	209.5	294.2	350.6	378.8	415.0	318.3	282.1	261.9	173.3
124.9	85°	133.0	120.9	205.5	233.7	209.5	185.4	177.3	149.1	137.0	84.6
64.5	87.5°	60.4	64.5	104.8	116.9	76.6	44.3	44.3	32.2	32.2	20.1
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°
3856.3
3795.9
3820.1
3779.8
3735.4
3727.4
3723.3
3739.5
3731.4
3739.5
3767.7
3824.1
3945.0
4182.7
4420.5
4621.9
4912.1
5294.9
5718.0
6286.2
6846.3
7716.7
8534.7
9312.4
10593.8
11307.0
10670.4
9151.2
5826.8
2018.8
745.5
447.3
302.2
169.2
92.7
20.1
0.0

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