

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: P574886

Luminaire Tested: **EPH-VN-06-730-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

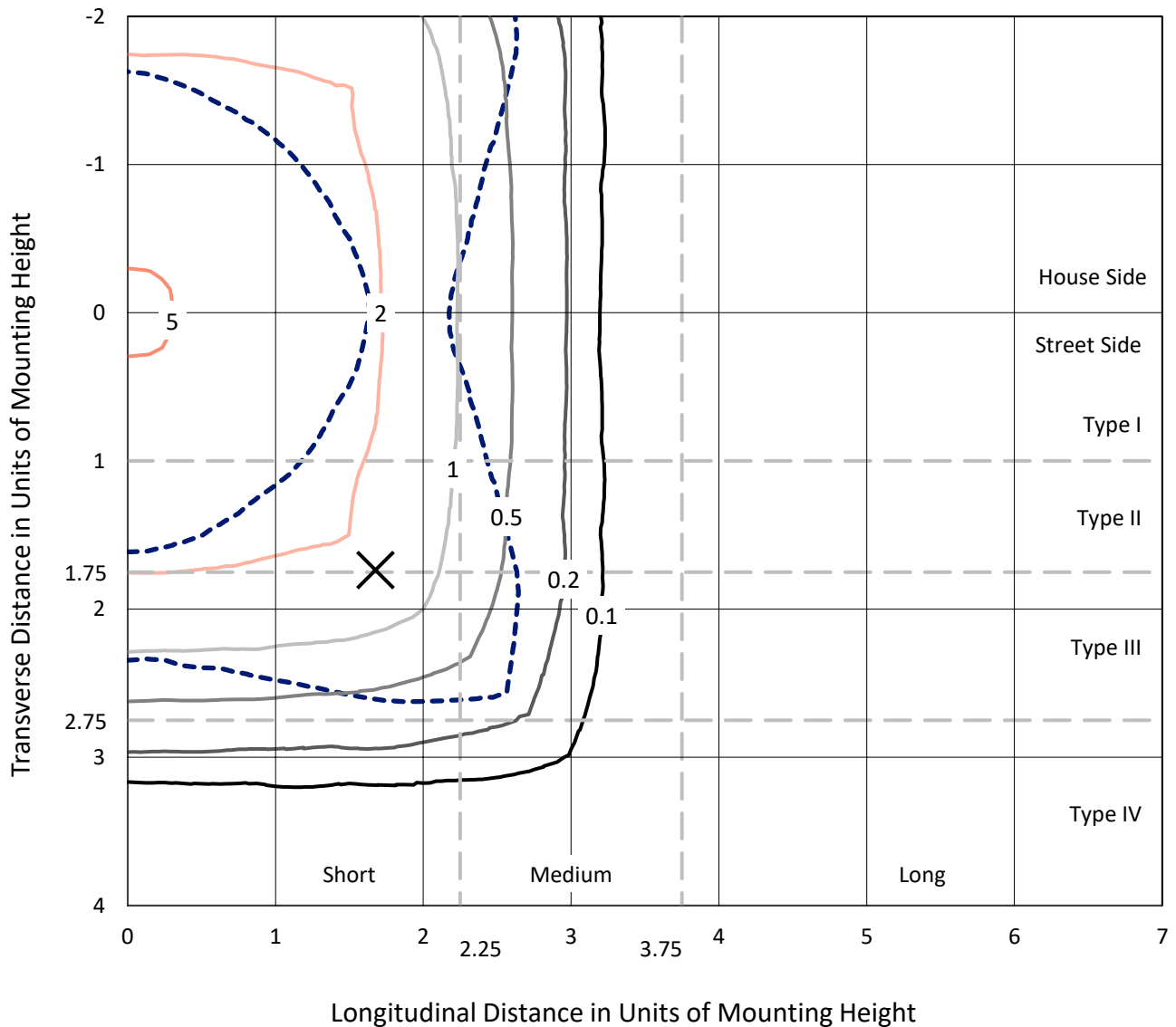
Lumens per Lamp: N/A
Luminaire Lumens: 48635.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
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

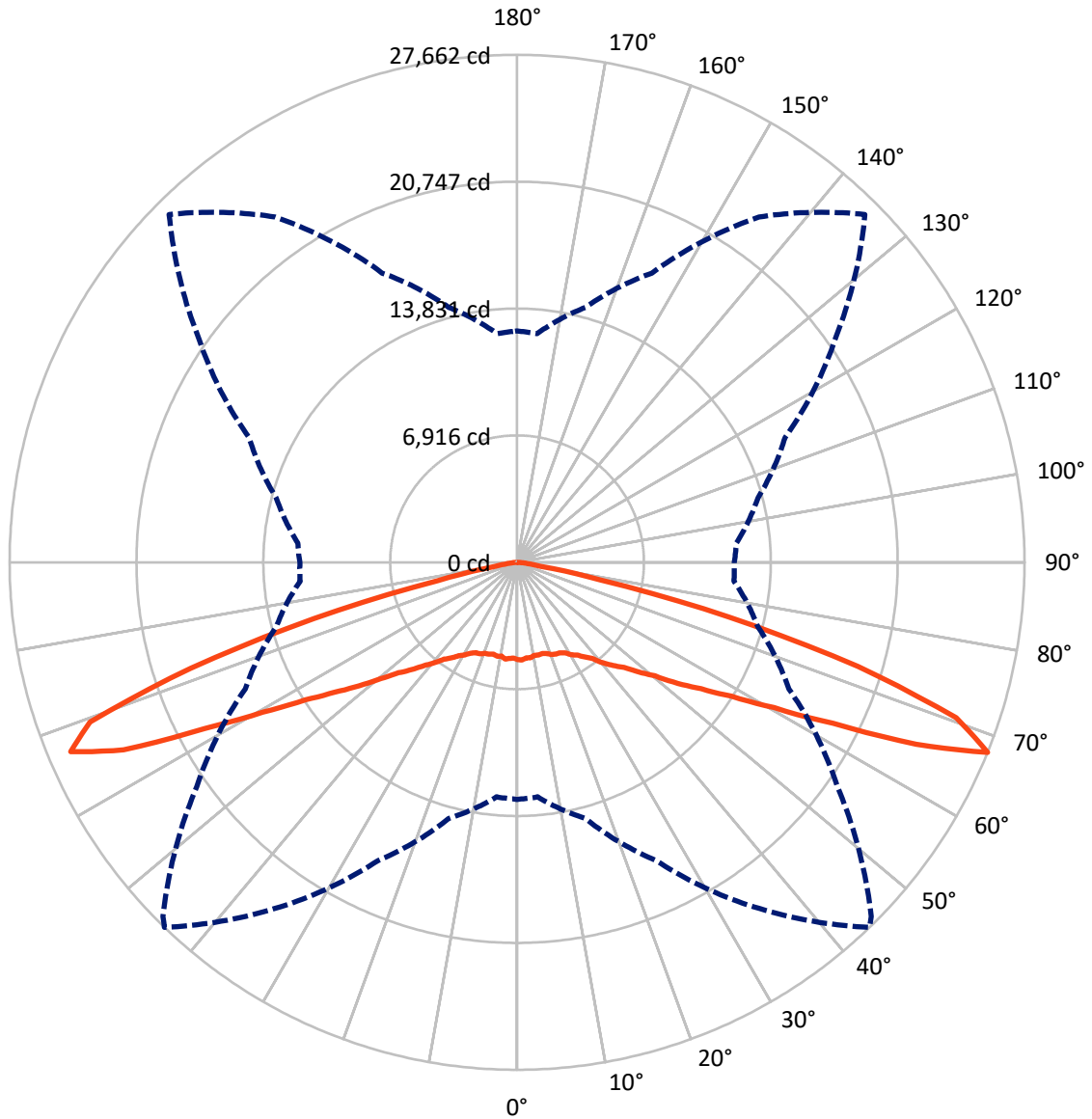
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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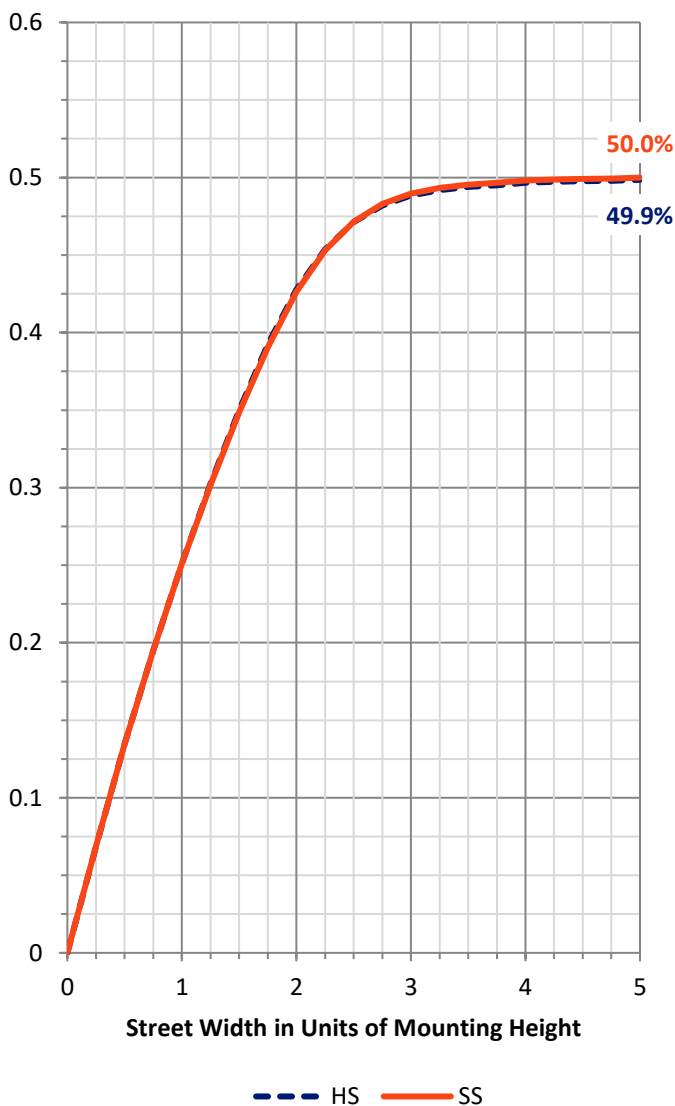
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24255.7	0.0	24255.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	24380.2	0.0	24380.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	48635.9	0.0	48635.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	1.0
10°-20°	1468.7	3.0
20°-30°	2497.6	5.1
30°-40°	3960.1	8.1
40°-50°	6457.3	13.3
50°-60°	11028.2	22.7
60°-70°	16773.8	34.5
70°-80°	5653.8	11.6
80°-90°	293.6	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°	48635.9	100.0
0°-180°	48635.9	100.0

Coefficient of Utilization



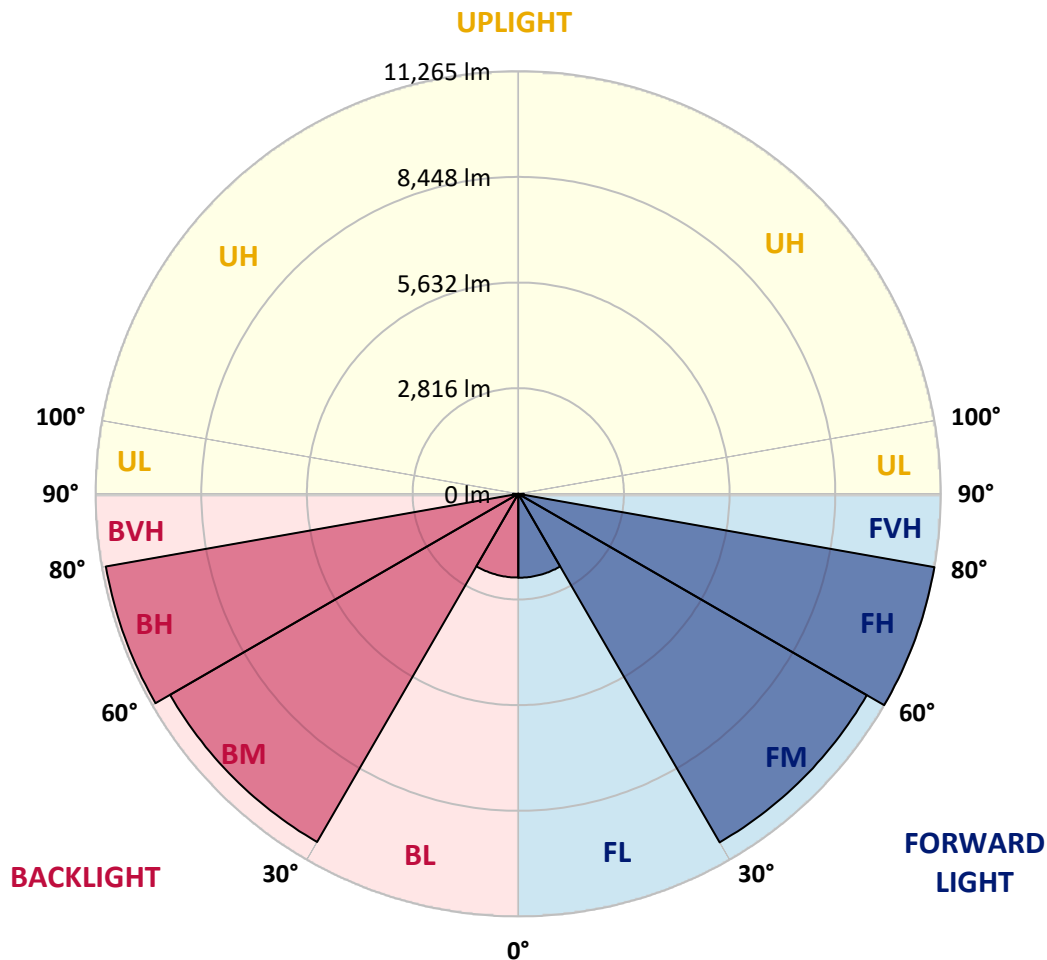
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.8	4.6			
FM (30°-60°)	10728.6	22.1			
FH (60°-80°)	11264.6	23.2			G4/12000
FVH (80°-90°)	150.2	0.3			G2/225
BL (0°-30°)	2232.3	4.6	B3/2500		
BM (30°-60°)	10717.0	22.0	B5		
BH (60°-80°)	11163.0	23.0	B5		G4/12000
BVH (80°-90°)	143.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6
2.5°	5190.5	5251.6	5296.0	5290.4	5307.1	5323.7	5301.5	5334.8	5312.6	5351.5
5°	5290.4	5273.8	5279.3	5246.0	5323.7	5234.9	5234.9	5279.3	5334.8	5268.2
7.5°	5229.4	5218.3	5190.5	5240.5	5257.1	5257.1	5301.5	5218.3	5312.6	5334.8
10°	5162.7	5101.7	5185.0	5234.9	5246.0	5157.2	5196.1	5218.3	5190.5	5218.3
12.5°	5107.2	5140.5	5140.5	5140.5	5123.9	5185.0	5223.8	5218.3	5162.7	5212.7
15°	5101.7	5085.0	5135.0	5179.4	5151.6	5162.7	5179.4	5229.4	5123.9	5146.1
17.5°	5096.1	5118.3	5135.0	5129.4	5223.8	5223.8	5207.2	5173.8	5257.1	5212.7
20°	5118.3	5101.7	5146.1	5162.7	5229.4	5362.6	5312.6	5284.9	5240.5	5185.0
22.5°	5146.1	5135.0	5196.1	5268.2	5395.9	5429.2	5423.7	5390.4	5312.6	5246.0
25°	5246.0	5146.1	5212.7	5351.5	5395.9	5462.5	5506.9	5462.5	5357.0	5373.7
27.5°	5395.9	5379.2	5468.1	5562.4	5523.6	5584.6	5545.8	5579.1	5584.6	5501.4
30°	5573.5	5523.6	5579.1	5762.3	5778.9	5845.6	5778.9	5690.1	5717.9	5645.7
32.5°	5828.9	5812.3	5917.7	6039.9	6062.1	6028.8	5995.4	6045.4	5928.8	5873.3
35°	5995.4	6067.6	6195.3	6289.7	6361.8	6328.5	6345.2	6295.2	6323.0	6206.4
37.5°	6489.5	6461.8	6489.5	6650.5	6667.2	6650.5	6667.2	6722.7	6683.8	6583.9
40°	6955.8	6911.4	6978.0	7161.2	7150.1	7205.6	7094.6	7155.7	7155.7	6966.9
42.5°	7305.6	7455.4	7533.2	7683.1	7738.6	7688.6	7666.4	7677.5	7799.6	7577.6
45°	8027.2	8021.7	8254.8	8338.1	8182.7	8171.6	8127.2	8260.4	8343.7	8216.0
47.5°	8810.0	8848.8	8982.1	9015.4	9109.7	8937.7	8937.7	8954.3	9248.5	8948.8
50°	9515.0	9565.0	9831.4	10092.3	9914.7	9731.5	9803.7	9892.5	10053.5	9770.4
52.5°	10369.9	10641.9	10819.6	10958.3	11086.0	10958.3	10791.8	10891.7	11208.2	10830.7
55°	11602.3	11818.8	11985.3	12240.7	12346.2	12174.1	12157.4	12146.3	12324.0	11924.3
57.5°	12979.0	12890.2	13156.7	13550.8	13933.9	13767.3	13717.4	13728.5	13772.9	13206.6
60°	14688.8	14788.8	15105.2	15449.4	15854.6	16087.8	15760.3	15571.5	15610.4	14838.7
62.5°	15665.9	15887.9	16604.1	17786.5	18602.5	19329.8	19379.7	18152.9	17331.3	15832.4
65°	15194.0	15160.7	16509.7	18696.9	21789.0	23904.1	23587.6	20612.1	17742.1	15360.6
67.5°	12923.5	12834.7	14466.8	17936.4	23043.6	27662.3	27301.5	21306.0	16354.2	13589.7
70°	8327.0	8304.8	10075.7	13673.0	20573.3	25397.4	25530.6	19352.0	13312.1	9953.6
72.5°	3025.5	3208.7	4235.7	7350.0	13972.7	19429.7	19513.0	14328.0	7655.3	4602.1
75°	1115.8	1149.1	1337.9	2387.1	6367.4	11929.8	12240.7	6950.3	2720.2	1498.9
77.5°	644.0	649.5	716.1	888.2	1887.5	4657.6	4846.3	2109.5	1054.8	799.4
80°	438.6	433.0	505.2	577.3	755.0	1321.2	1404.5	882.7	666.2	555.1
82.5°	255.4	272.0	371.9	410.8	460.8	582.9	594.0	549.6	499.6	410.8
85°	155.4	127.7	205.4	227.6	266.5	260.9	260.9	299.8	322.0	288.7
87.5°	38.9	38.9	50.0	55.5	72.2	55.5	61.1	116.6	155.4	144.3
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°
5312.6	0°	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6	5312.6
5373.7	2.5°	5323.7	5307.1	5318.2	5379.2	5340.4	5223.8	5251.6	5312.6	5262.7	5234.9
5307.1	5°	5301.5	5334.8	5296.0	5307.1	5345.9	5251.6	5268.2	5345.9	5312.6	5323.7
5340.4	7.5°	5307.1	5323.7	5290.4	5240.5	5240.5	5318.2	5273.8	5284.9	5234.9	5318.2
5234.9	10°	5273.8	5229.4	5190.5	5218.3	5207.2	5185.0	5168.3	5201.6	5151.6	5223.8
5123.9	12.5°	5173.8	5185.0	5173.8	5162.7	5185.0	5240.5	5151.6	5162.7	5085.0	5096.1
5146.1	15°	5135.0	5168.3	5157.2	5218.3	5246.0	5162.7	5229.4	5162.7	5101.7	5068.4
5151.6	17.5°	5151.6	5201.6	5185.0	5229.4	5179.4	5240.5	5251.6	5223.8	5151.6	5123.9
5185.0	20°	5168.3	5151.6	5173.8	5251.6	5323.7	5262.7	5262.7	5246.0	5179.4	5140.5
5234.9	22.5°	5207.2	5179.4	5212.7	5273.8	5296.0	5390.4	5307.1	5268.2	5157.2	5057.3
5273.8	25°	5284.9	5301.5	5323.7	5301.5	5423.7	5412.6	5401.5	5373.7	5201.6	5207.2
5401.5	27.5°	5434.8	5340.4	5368.1	5501.4	5518.0	5562.4	5506.9	5556.9	5373.7	5379.2
5595.8	30°	5618.0	5518.0	5606.9	5723.4	5717.9	5801.2	5773.4	5784.5	5656.8	5584.6
5784.5	32.5°	5817.8	5806.7	5862.2	5934.4	5962.1	6006.5	6001.0	6001.0	5923.3	5734.5
6167.5	35°	6039.9	6117.6	6184.2	6261.9	6273.0	6328.5	6250.8	6261.9	6184.2	6045.4
6484.0	37.5°	6478.4	6472.9	6545.0	6639.4	6650.5	6606.1	6667.2	6639.4	6533.9	6439.6
6928.1	40°	6989.1	6878.1	6944.7	7166.8	7183.4	7105.7	7100.2	7094.6	7016.9	6811.5
7494.3	42.5°	7433.2	7577.6	7566.5	7638.6	7588.7	7549.8	7688.6	7610.9	7549.8	7333.3
8182.7	45°	8005.0	8049.4	8193.8	8426.9	8188.2	8188.2	8282.6	8221.5	8188.2	8027.2
8793.3	47.5°	8715.6	8754.5	9043.1	9059.8	8904.3	8798.9	9093.1	9104.2	8965.4	8843.3
9637.1	50°	9548.3	9565.0	9825.9	10092.3	9920.2	9720.4	10020.2	10136.7	9825.9	9659.3
10664.1	52.5°	10464.3	10414.3	10630.8	11130.4	10963.9	10902.8	11224.8	11252.6	10830.7	10569.8
11696.7	55°	11519.0	11452.4	12040.9	12379.5	12274.0	12163.0	12307.3	12373.9	12035.3	11607.9
13034.5	57.5°	12884.7	12918.0	13212.2	13545.3	13717.4	13745.1	13811.7	13745.1	13400.9	12967.9
14572.3	60°	14250.3	14350.2	14922.0	15549.3	15604.8	16093.3	16004.5	15671.4	15182.9	14566.7
14699.9	62.5°	14755.5	14672.2	15593.7	17125.9	18430.4	19324.2	18930.1	17747.6	16615.2	15493.8
13839.5	65°	13739.6	13945.0	15199.6	17597.7	20428.9	23965.1	21866.7	18597.0	16309.8	14860.9
11868.8	67.5°	11841.0	11996.4	13589.7	16121.1	21145.1	26818.5	22977.0	17397.9	14383.5	12507.2
8249.3	70°	8249.3	8327.0	9886.9	13206.6	19174.3	25308.6	20728.7	13362.1	9931.3	7916.2
3391.9	72.5°	3319.7	3508.4	4535.4	7955.1	14155.9	19229.8	13956.1	7011.3	4119.1	3064.3
1221.3	75°	1226.8	1232.4	1448.9	2736.8	6722.7	12085.3	6295.2	2253.8	1315.7	1077.0
738.3	77.5°	710.6	705.0	755.0	988.1	1948.5	4718.6	1787.5	882.7	716.1	644.0
466.3	80°	444.1	438.6	516.3	655.1	854.9	1293.5	755.0	549.6	483.0	416.4
305.3	82.5°	283.1	288.7	405.2	483.0	521.8	571.8	438.6	388.6	360.8	238.7
172.1	85°	183.2	166.5	283.1	322.0	288.7	255.4	244.3	205.4	188.7	116.6
88.8	87.5°	83.3	88.8	144.3	161.0	105.5	61.1	61.1	44.4	44.4	27.8
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°
5312.6
5229.4
5262.7
5207.2
5146.1
5135.0
5129.4
5151.6
5140.5
5151.6
5190.5
5268.2
5434.8
5762.3
6089.8
6367.4
6767.1
7294.5
7877.4
8660.1
9431.7
10630.8
11757.7
12829.1
14594.5
15577.1
14699.9
12607.1
8027.2
2781.2
1027.0
616.2
416.4
233.2
127.7
27.8
0.0

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