

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: P574887

Luminaire Tested: **EPH-VN-07-730-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574887
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

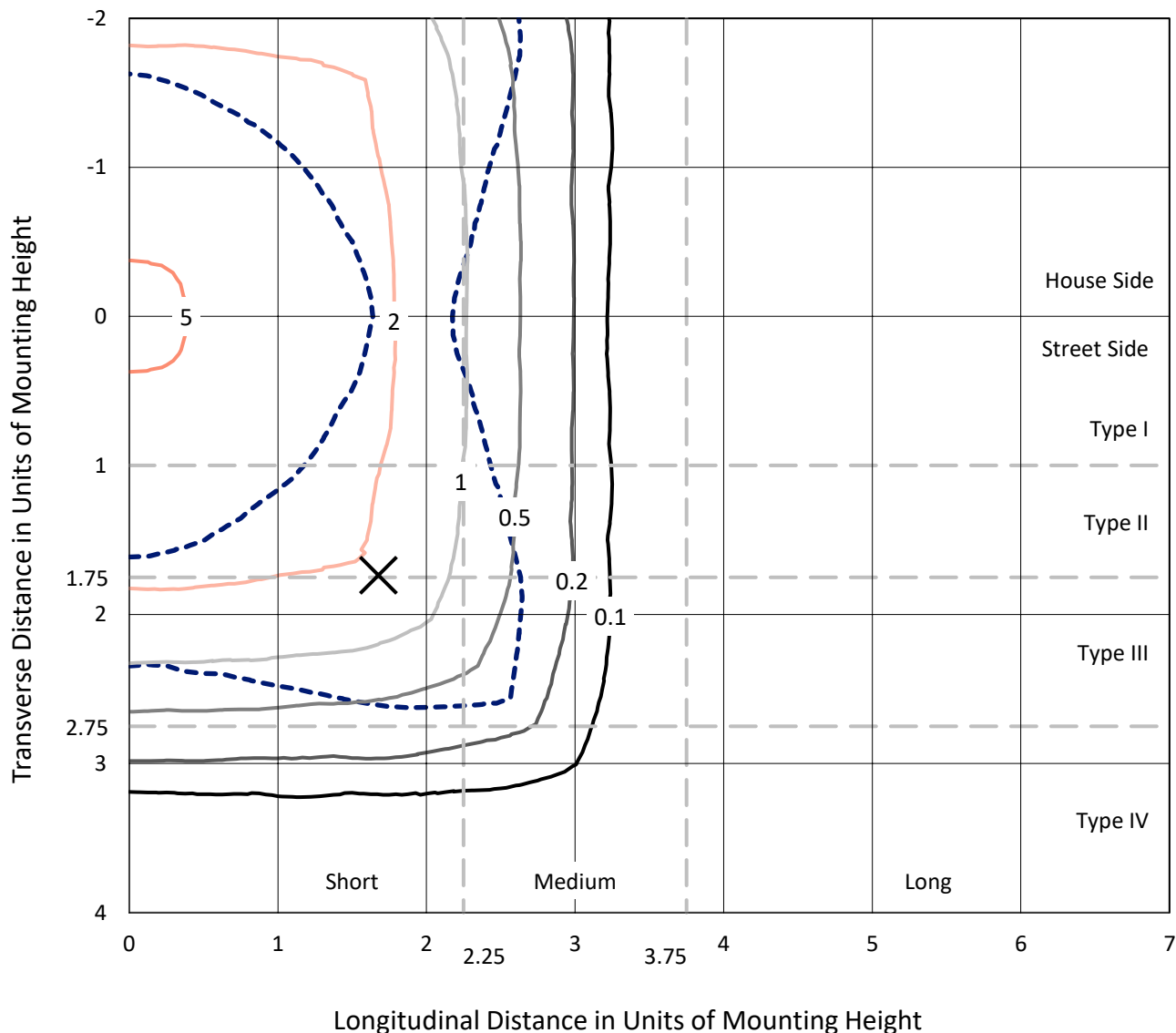
Lumens per Lamp: N/A
Luminaire Lumens: 51888.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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: P574887
 CATALOG NUMBER: EPH-VN-07-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

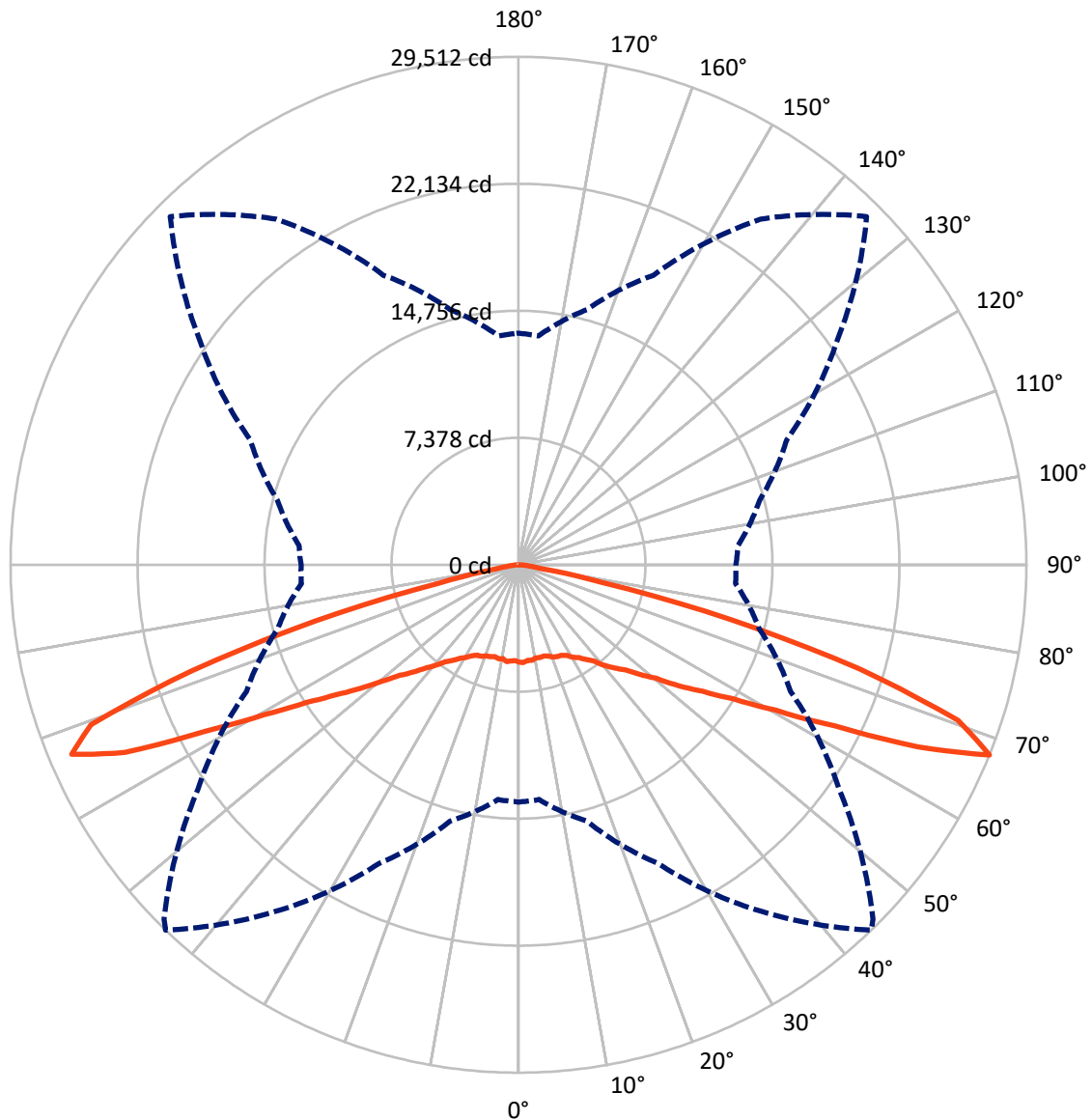
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P574887
CATALOG NUMBER: EPH-VN-07-730-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P574887
 CATALOG NUMBER: EPH-VN-07-730-U-5MQ

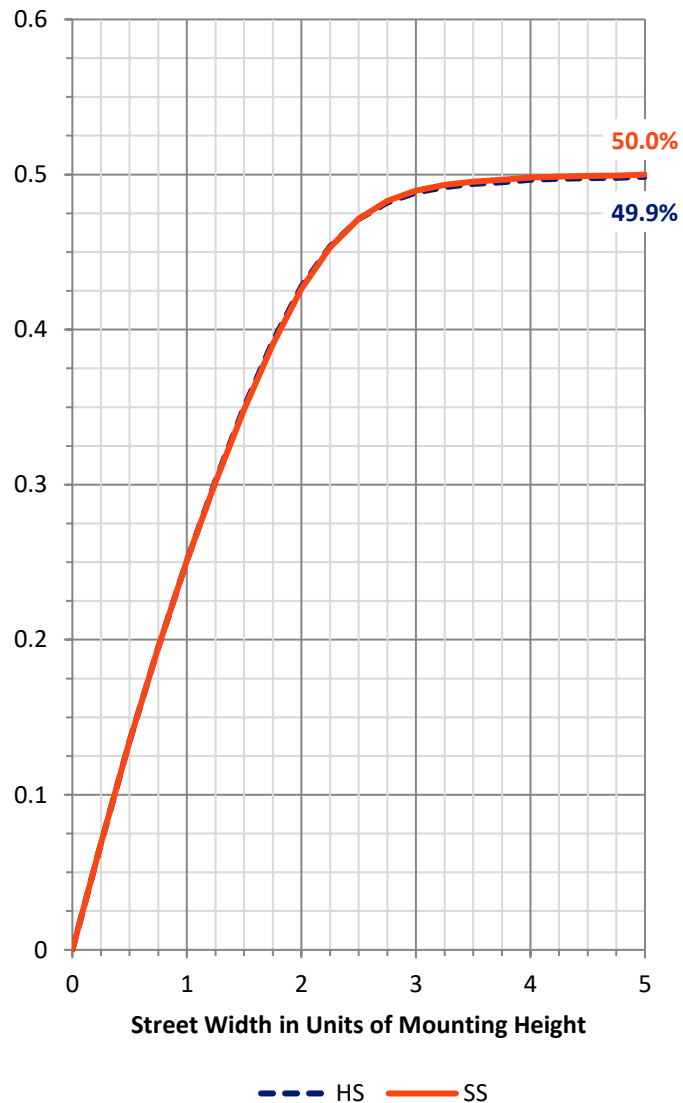
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25877.7	0.0	25877.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	26010.6	0.0	26010.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	51888.3	0.0	51888.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.4	1.0
10°-20°	1566.9	3.0
20°-30°	2664.7	5.1
30°-40°	4224.9	8.1
40°-50°	6889.1	13.3
50°-60°	11765.7	22.7
60°-70°	17895.5	34.5
70°-80°	6031.9	11.6
80°-90°	313.2	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°	51888.3	100.0
0°-180°	51888.3	100.0

Coefficient of Utilization



REPORT NUMBER: P574887

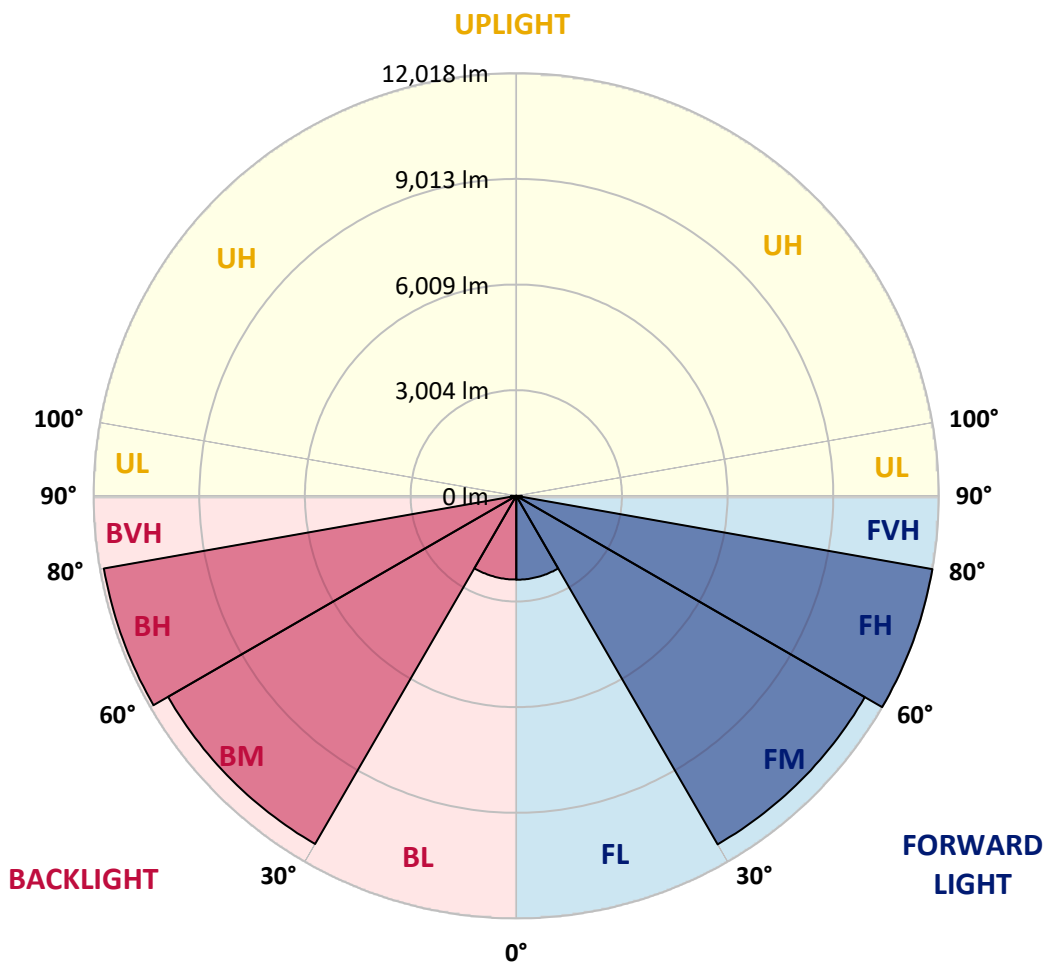
CATALOG NUMBER: EPH-VN-07-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.4	4.6			
FM (30°-60°)	11446.1	22.1			
FH (60°-80°)	12017.9	23.2			G5
FVH (80°-90°)	160.2	0.3			G2/225
BL (0°-30°)	2381.5	4.6	B3/2500		
BM (30°-60°)	11433.7	22.0	B5		
BH (60°-80°)	11909.5	23.0	B5		G4/12000
BVH (80°-90°)	153.0	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-G5

Type V Short





REPORT NUMBER: P574887
 CATALOG NUMBER: EPH-VN-07-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9
2.5°	5537.6	5602.8	5650.1	5644.2	5662.0	5679.8	5656.1	5691.6	5667.9	5709.4
5°	5644.2	5626.4	5632.4	5596.8	5679.8	5585.0	5585.0	5632.4	5691.6	5620.5
7.5°	5579.1	5567.2	5537.6	5590.9	5608.7	5608.7	5656.1	5567.2	5667.9	5691.6
10°	5508.0	5442.8	5531.7	5585.0	5596.8	5502.1	5543.5	5567.2	5537.6	5567.2
12.5°	5448.8	5484.3	5484.3	5484.3	5466.5	5531.7	5573.1	5567.2	5508.0	5561.3
15°	5442.8	5425.1	5478.4	5525.8	5496.2	5508.0	5525.8	5579.1	5466.5	5490.2
17.5°	5436.9	5460.6	5478.4	5472.5	5573.1	5573.1	5555.4	5519.8	5608.7	5561.3
20°	5460.6	5442.8	5490.2	5508.0	5579.1	5721.2	5667.9	5638.3	5590.9	5531.7
22.5°	5490.2	5478.4	5543.5	5620.5	5756.7	5792.3	5786.4	5750.8	5667.9	5596.8
25°	5596.8	5490.2	5561.3	5709.4	5756.7	5827.8	5875.2	5827.8	5715.3	5733.1
27.5°	5756.7	5739.0	5833.7	5934.4	5893.0	5958.1	5916.7	5952.2	5958.1	5869.3
30°	5946.3	5893.0	5952.2	6147.6	6165.4	6236.5	6165.4	6070.6	6100.3	6023.3
32.5°	6218.7	6200.9	6313.5	6443.8	6467.5	6431.9	6396.4	6449.7	6325.3	6266.1
35°	6396.4	6473.4	6609.6	6710.3	6787.3	6751.7	6769.5	6716.2	6745.8	6621.4
37.5°	6923.5	6893.9	6923.5	7095.2	7113.0	7095.2	7113.0	7172.2	7130.8	7024.2
40°	7421.0	7373.6	7444.7	7640.1	7628.3	7687.5	7569.1	7634.2	7634.2	7432.8
42.5°	7794.1	7954.0	8036.9	8196.8	8256.1	8202.8	8179.1	8190.9	8321.2	8084.3
45°	8564.0	8558.1	8806.9	8895.7	8729.9	8718.0	8670.7	8812.8	8901.6	8765.4
47.5°	9399.1	9440.6	9582.7	9618.3	9718.9	9535.3	9535.3	9553.1	9867.0	9547.2
50°	10151.3	10204.6	10488.9	10767.2	10577.7	10382.3	10459.3	10554.0	10725.8	10423.7
52.5°	11063.4	11353.6	11543.1	11691.2	11827.4	11691.2	11513.5	11620.1	11957.7	11554.9
55°	12378.2	12609.2	12786.8	13059.3	13171.8	12988.2	12970.4	12958.6	13148.1	12721.7
57.5°	13847.0	13752.2	14036.5	14457.0	14865.7	14688.0	14634.7	14646.5	14693.9	14089.8
60°	15671.1	15777.7	16115.3	16482.5	16914.9	17163.6	16814.2	16612.8	16654.3	15831.0
62.5°	16713.5	16950.4	17714.4	18975.9	19846.6	20622.4	20675.7	19366.8	18490.3	16891.2
65°	16210.1	16174.6	17613.7	19947.2	23246.1	25502.6	25165.0	21990.5	18928.6	16387.8
67.5°	13787.8	13693.0	15434.2	19135.8	24584.6	29512.2	29127.2	22730.8	17447.9	14498.5
70°	8883.9	8860.2	10749.5	14587.3	21949.1	27095.8	27237.9	20646.1	14202.3	10619.2
72.5°	3227.8	3423.2	4518.9	7841.5	14907.1	20729.0	20817.9	15286.2	8167.2	4909.8
75°	1190.4	1226.0	1427.3	2546.7	6793.2	12727.6	13059.3	7415.1	2902.1	1599.1
77.5°	687.0	692.9	764.0	947.6	2013.7	4969.0	5170.4	2250.6	1125.3	852.9
80°	467.9	462.0	539.0	615.9	805.5	1409.6	1498.4	941.7	710.7	592.3
82.5°	272.4	290.2	396.8	438.3	491.6	621.9	633.7	586.3	533.0	438.3
85°	165.8	136.2	219.1	242.8	284.3	278.4	278.4	319.8	343.5	308.0
87.5°	41.5	41.5	53.3	59.2	77.0	59.2	65.1	124.4	165.8	154.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574887

CATALOG NUMBER: EPH-VN-07-730-U-5MQ

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5667.9	0°	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9
5733.1	2.5°	5679.8	5662.0	5673.8	5739.0	5697.5	5573.1	5602.8	5667.9	5614.6	5585.0
5662.0	5°	5656.1	5691.6	5650.1	5662.0	5703.4	5602.8	5620.5	5703.4	5667.9	5679.8
5697.5	7.5°	5662.0	5679.8	5644.2	5590.9	5590.9	5673.8	5626.4	5638.3	5585.0	5673.8
5585.0	10°	5626.4	5579.1	5537.6	5567.2	5555.4	5531.7	5513.9	5549.5	5496.2	5573.1
5466.5	12.5°	5519.8	5531.7	5519.8	5508.0	5531.7	5590.9	5496.2	5508.0	5425.1	5436.9
5490.2	15°	5478.4	5513.9	5502.1	5567.2	5596.8	5508.0	5579.1	5508.0	5442.8	5407.3
5496.2	17.5°	5496.2	5549.5	5531.7	5579.1	5525.8	5590.9	5602.8	5573.1	5496.2	5466.5
5531.7	20°	5513.9	5496.2	5519.8	5602.8	5679.8	5614.6	5614.6	5596.8	5525.8	5484.3
5585.0	22.5°	5555.4	5525.8	5561.3	5626.4	5650.1	5750.8	5662.0	5620.5	5502.1	5395.5
5626.4	25°	5638.3	5656.1	5679.8	5656.1	5786.4	5774.5	5762.7	5733.1	5549.5	5555.4
5762.7	27.5°	5798.2	5697.5	5727.1	5869.3	5887.0	5934.4	5875.2	5928.5	5733.1	5739.0
5970.0	30°	5993.6	5887.0	5981.8	6106.2	6100.3	6189.1	6159.5	6171.3	6035.1	5958.1
6171.3	32.5°	6206.9	6195.0	6254.2	6331.2	6360.8	6408.2	6402.3	6402.3	6319.4	6118.0
6580.0	35°	6443.8	6526.7	6597.7	6680.7	6692.5	6751.7	6668.8	6680.7	6597.7	6449.7
6917.6	37.5°	6911.6	6905.7	6982.7	7083.4	7095.2	7047.9	7113.0	7083.4	6970.9	6870.2
7391.4	40°	7456.5	7338.1	7409.1	7646.0	7663.8	7580.9	7575.0	7569.1	7486.1	7267.0
7995.5	42.5°	7930.3	8084.3	8072.5	8149.5	8096.2	8054.7	8202.8	8119.9	8054.7	7823.7
8729.9	45°	8540.4	8587.7	8741.7	8990.5	8735.8	8735.8	8836.5	8771.3	8735.8	8564.0
9381.4	47.5°	9298.4	9339.9	9647.9	9665.6	9499.8	9387.3	9701.2	9713.0	9565.0	9434.7
10281.6	50°	10186.8	10204.6	10483.0	10767.2	10583.6	10370.4	10690.3	10814.6	10483.0	10305.3
11377.3	52.5°	11164.1	11110.8	11341.7	11874.8	11697.1	11631.9	11975.4	12005.1	11554.9	11276.6
12478.9	55°	12289.3	12218.3	12846.1	13207.3	13094.8	12976.4	13130.4	13201.4	12840.1	12384.1
13906.2	57.5°	13746.3	13781.8	14095.7	14451.1	14634.7	14664.3	14735.4	14664.3	14297.1	13835.1
15546.8	60°	15203.3	15309.9	15919.9	16589.1	16648.4	17169.5	17074.8	16719.4	16198.2	15540.8
15683.0	62.5°	15742.2	15653.4	16636.5	18271.1	19663.0	20616.5	20196.0	18934.5	17726.3	16529.9
14765.0	65°	14658.4	14877.5	16216.0	18774.6	21795.1	25567.8	23329.0	19840.6	17400.5	15854.7
12662.5	67.5°	12632.9	12798.7	14498.5	17199.2	22559.1	28612.0	24513.5	18561.4	15345.4	13343.6
8800.9	70°	8800.9	8883.9	10548.1	14089.8	20456.6	27001.0	22114.9	14255.6	10595.5	8445.6
3618.7	72.5°	3541.7	3743.1	4838.7	8487.1	15102.6	20515.8	14889.4	7480.2	4394.6	3269.3
1303.0	75°	1308.9	1314.8	1545.8	2919.8	7172.2	12893.4	6716.2	2404.6	1403.7	1149.0
787.7	77.5°	758.1	752.2	805.5	1054.2	2078.8	5034.2	1907.1	941.7	764.0	687.0
497.5	80°	473.8	467.9	550.8	698.9	912.1	1380.0	805.5	586.3	515.3	444.2
325.7	82.5°	302.1	308.0	432.3	515.3	556.7	610.0	467.9	414.6	385.0	254.7
183.6	85°	195.4	177.7	302.1	343.5	308.0	272.4	260.6	219.1	201.4	124.4
94.8	87.5°	88.8	94.8	154.0	171.8	112.5	65.1	65.1	47.4	47.4	29.6
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°
5667.9
5579.1
5614.6
5555.4
5490.2
5478.4
5472.5
5496.2
5484.3
5496.2
5537.6
5620.5
5798.2
6147.6
6497.1
6793.2
7219.6
7782.3
8404.1
9239.2
10062.5
11341.7
12544.0
13687.1
15570.5
16618.7
15683.0
13450.2
8564.0
2967.2
1095.7
657.4
444.2
248.7
136.2
29.6
0.0

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