

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: P574888

Luminaire Tested: **EPH-VN-08-730-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574888
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

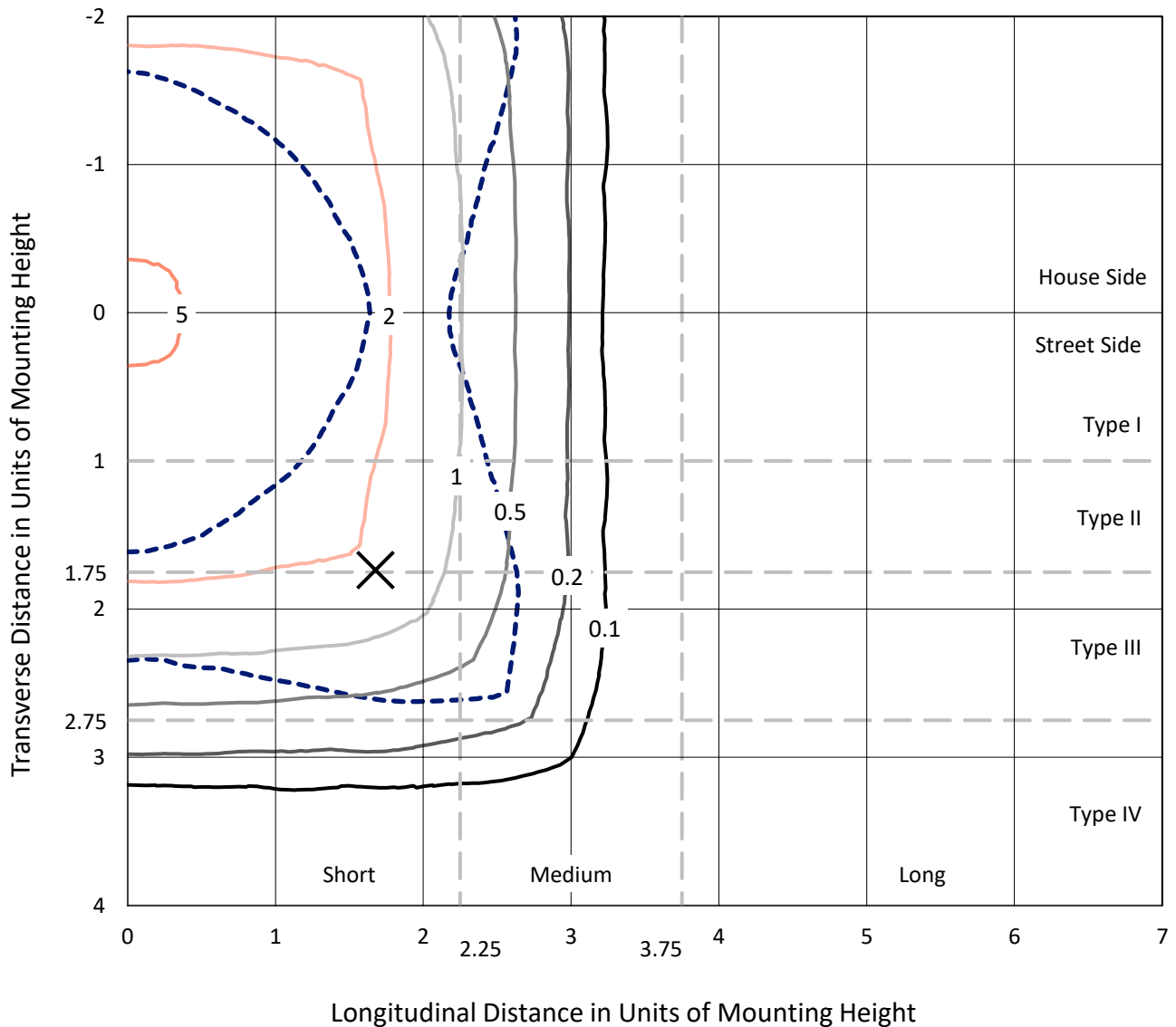
Lumens per Lamp: N/A
Luminaire Lumens: 51241.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
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

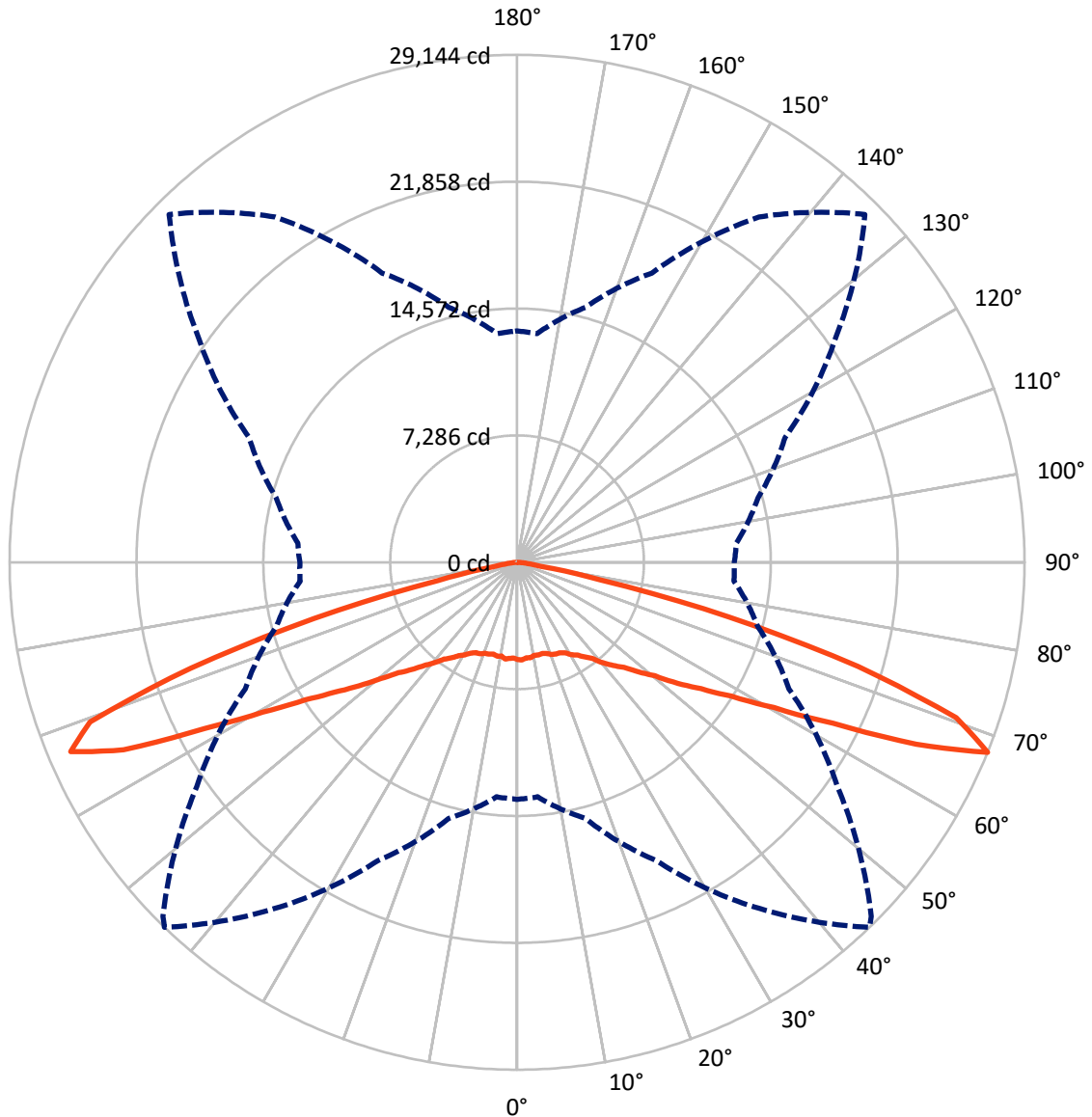
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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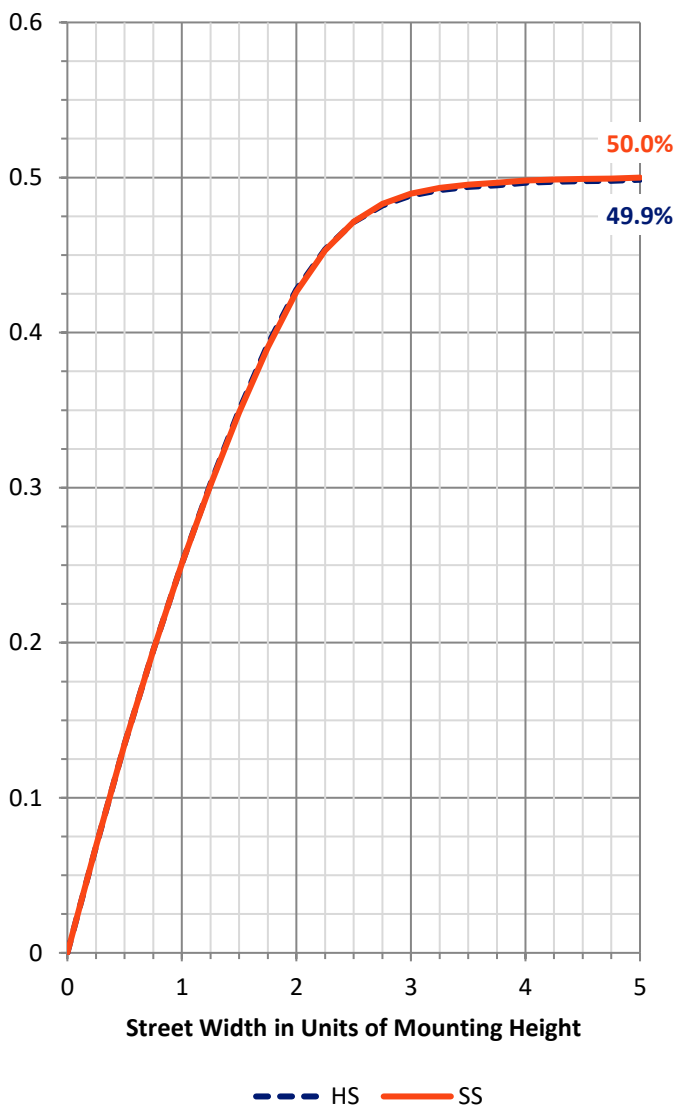
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25555.1	0.0	25555.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	25686.3	0.0	25686.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	51241.4	0.0	51241.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.7	1.0
10°-20°	1547.4	3.0
20°-30°	2631.4	5.1
30°-40°	4172.3	8.1
40°-50°	6803.3	13.3
50°-60°	11619.0	22.7
60°-70°	17672.4	34.5
70°-80°	5956.7	11.6
80°-90°	309.3	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°	51241.4	100.0
0°-180°	51241.4	100.0

Coefficient of Utilization



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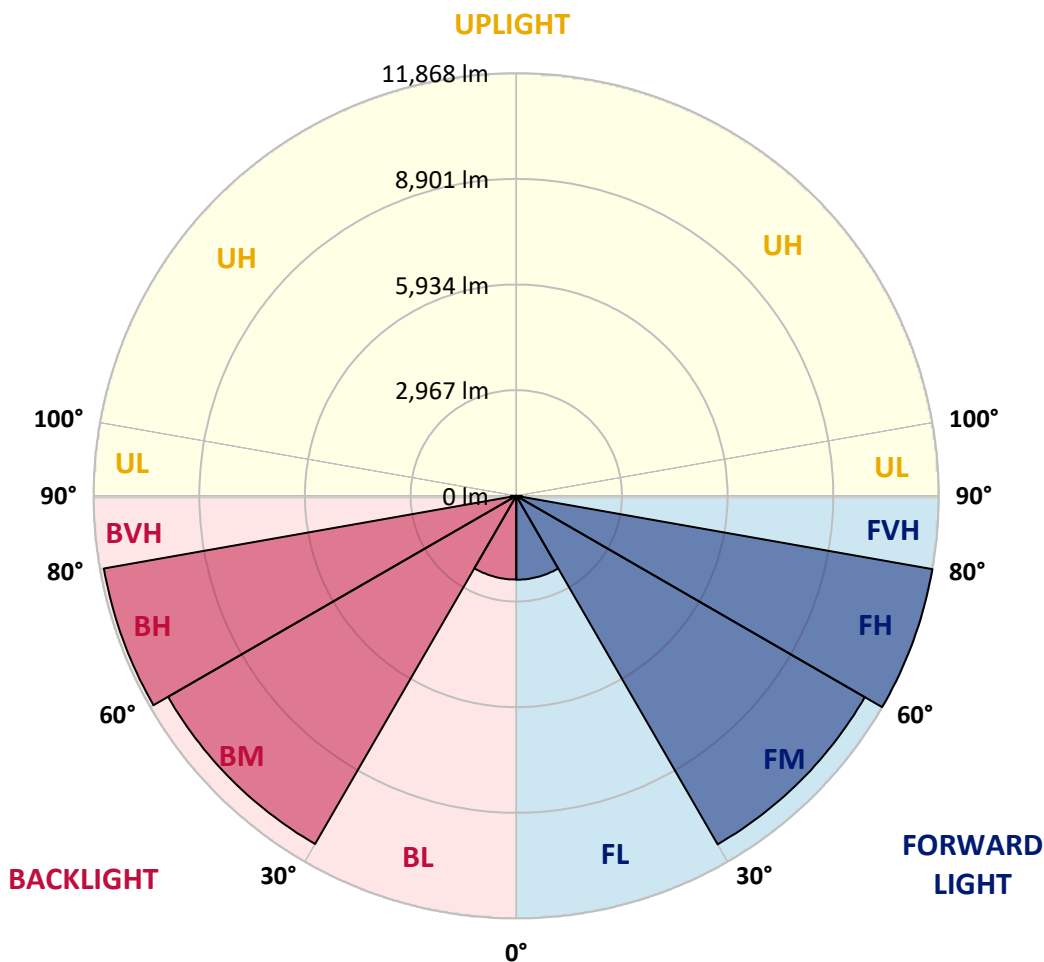
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.7	4.6			
FM (30°-60°)	11303.4	22.1			
FH (60°-80°)	11868.1	23.2			G4/12000
FVH (80°-90°)	158.2	0.3			G2/225
BL (0°-30°)	2351.8	4.6	B3/2500		
BM (30°-60°)	11291.2	22.0	B5		
BH (60°-80°)	11761.0	23.0	B5		G4/12000
BVH (80°-90°)	151.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2
2.5°	5468.6	5532.9	5579.7	5573.8	5591.4	5608.9	5585.5	5620.6	5597.2	5638.2
5°	5573.8	5556.3	5562.2	5527.1	5608.9	5515.4	5515.4	5562.2	5620.6	5550.5
7.5°	5509.5	5497.8	5468.6	5521.2	5538.8	5538.8	5585.5	5497.8	5597.2	5620.6
10°	5439.3	5375.0	5462.7	5515.4	5527.1	5433.5	5474.4	5497.8	5468.6	5497.8
12.5°	5380.8	5415.9	5415.9	5415.9	5398.4	5462.7	5503.7	5497.8	5439.3	5492.0
15°	5375.0	5357.4	5410.1	5456.9	5427.6	5439.3	5456.9	5509.5	5398.4	5421.8
17.5°	5369.1	5392.5	5410.1	5404.2	5503.7	5503.7	5486.1	5451.0	5538.8	5492.0
20°	5392.5	5375.0	5421.8	5439.3	5509.5	5649.9	5597.2	5568.0	5521.2	5462.7
22.5°	5421.8	5410.1	5474.4	5550.5	5685.0	5720.1	5714.2	5679.1	5597.2	5527.1
25°	5527.1	5421.8	5492.0	5638.2	5685.0	5755.2	5801.9	5755.2	5644.0	5661.6
27.5°	5685.0	5667.4	5761.0	5860.4	5819.5	5883.8	5842.9	5878.0	5883.8	5796.1
30°	5872.1	5819.5	5878.0	6071.0	6088.5	6158.7	6088.5	5995.0	6024.2	5948.2
32.5°	6141.2	6123.6	6234.8	6363.4	6386.8	6351.7	6316.6	6369.3	6246.5	6188.0
35°	6316.6	6392.7	6527.2	6626.6	6702.7	6667.6	6685.1	6632.5	6661.7	6538.9
37.5°	6837.2	6807.9	6837.2	7006.8	7024.3	7006.8	7024.3	7082.8	7041.9	6936.6
40°	7328.5	7281.7	7351.9	7544.9	7533.2	7591.7	7474.7	7539.0	7539.0	7340.2
42.5°	7696.9	7854.9	7936.7	8094.7	8153.1	8100.5	8077.1	8088.8	8217.5	7983.5
45°	8457.3	8451.4	8697.1	8784.8	8621.0	8609.3	8562.6	8702.9	8790.7	8656.1
47.5°	9281.9	9322.9	9463.3	9498.4	9597.8	9416.5	9416.5	9434.0	9744.0	9428.2
50°	10024.7	10077.4	10358.1	10633.0	10445.8	10252.8	10328.9	10422.5	10592.1	10293.8
52.5°	10925.4	11212.0	11399.2	11545.4	11679.9	11545.4	11369.9	11475.2	11808.6	11410.9
55°	12223.9	12452.0	12627.4	12896.5	13007.6	12826.3	12808.7	12797.0	12984.2	12563.1
57.5°	13674.4	13580.8	13861.5	14276.8	14680.3	14504.9	14452.2	14463.9	14510.7	13914.1
60°	15475.8	15581.0	15914.4	16277.0	16704.0	16949.6	16604.6	16405.7	16446.7	15633.7
62.5°	16505.1	16739.1	17493.6	18739.4	19599.1	20365.3	20417.9	19125.4	18259.8	16680.6
65°	16008.0	15972.9	17394.1	19698.6	22956.3	25184.7	24851.3	21716.4	18692.6	16183.5
67.5°	13615.9	13522.3	15241.8	18897.3	24278.1	29144.3	28764.1	22447.5	17230.4	14317.7
70°	8773.1	8749.7	10615.5	14405.4	21675.4	26758.0	26898.3	20388.7	14025.3	10486.8
72.5°	3187.6	3380.6	4462.6	7743.7	14721.3	20470.6	20558.3	15095.6	8065.4	4848.6
75°	1175.6	1210.7	1409.5	2515.0	6708.5	12568.9	12896.5	7322.6	2865.9	1579.2
77.5°	678.5	684.3	754.5	935.8	1988.6	4907.1	5105.9	2222.5	1111.3	842.2
80°	462.1	456.2	532.2	608.3	795.4	1392.0	1479.7	929.9	701.8	584.9
82.5°	269.0	286.6	391.9	432.8	485.4	614.1	625.8	579.0	526.4	432.8
85°	163.8	134.5	216.4	239.8	280.7	274.9	274.9	315.8	339.2	304.1
87.5°	40.9	40.9	52.6	58.5	76.0	58.5	64.3	122.8	163.8	152.1
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°
5597.2	0°	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2	5597.2
5661.6	2.5°	5608.9	5591.4	5603.1	5667.4	5626.5	5503.7	5532.9	5597.2	5544.6	5515.4
5591.4	5°	5585.5	5620.6	5579.7	5591.4	5632.3	5532.9	5550.5	5632.3	5597.2	5608.9
5626.5	7.5°	5591.4	5608.9	5573.8	5521.2	5521.2	5603.1	5556.3	5568.0	5515.4	5603.1
5515.4	10°	5556.3	5509.5	5468.6	5497.8	5486.1	5462.7	5445.2	5480.3	5427.6	5503.7
5398.4	12.5°	5451.0	5462.7	5451.0	5439.3	5462.7	5521.2	5427.6	5439.3	5357.4	5369.1
5421.8	15°	5410.1	5445.2	5433.5	5497.8	5527.1	5439.3	5509.5	5439.3	5375.0	5339.9
5427.6	17.5°	5427.6	5480.3	5462.7	5509.5	5456.9	5521.2	5532.9	5503.7	5427.6	5398.4
5462.7	20°	5445.2	5427.6	5451.0	5532.9	5608.9	5544.6	5544.6	5527.1	5456.9	5415.9
5515.4	22.5°	5486.1	5456.9	5492.0	5556.3	5579.7	5679.1	5591.4	5550.5	5433.5	5328.2
5556.3	25°	5568.0	5585.5	5608.9	5585.5	5714.2	5702.5	5690.8	5661.6	5480.3	5486.1
5690.8	27.5°	5725.9	5626.5	5655.7	5796.1	5813.6	5860.4	5801.9	5854.6	5661.6	5667.4
5895.5	30°	5918.9	5813.6	5907.2	6030.0	6024.2	6111.9	6082.7	6094.4	5959.9	5883.8
6094.4	32.5°	6129.5	6117.8	6176.3	6252.3	6281.5	6328.3	6322.5	6322.5	6240.6	6041.7
6497.9	35°	6363.4	6445.3	6515.5	6597.4	6609.1	6667.6	6585.7	6597.4	6515.5	6369.3
6831.3	37.5°	6825.5	6819.6	6895.7	6995.1	7006.8	6960.0	7024.3	6995.1	6884.0	6784.5
7299.2	40°	7363.6	7246.6	7316.8	7550.7	7568.3	7486.4	7480.5	7474.7	7392.8	7176.4
7895.8	42.5°	7831.5	7983.5	7971.8	8047.9	7995.2	7954.3	8100.5	8018.6	7954.3	7726.2
8621.0	45°	8433.9	8480.7	8632.7	8878.4	8626.9	8626.9	8726.3	8662.0	8626.9	8457.3
9264.4	47.5°	9182.5	9223.5	9527.6	9545.1	9381.4	9270.3	9580.2	9591.9	9445.7	9317.0
10153.4	50°	10059.8	10077.4	10352.3	10633.0	10451.7	10241.1	10557.0	10679.8	10352.3	10176.8
11235.4	52.5°	11024.9	10972.2	11200.3	11726.7	11551.3	11486.9	11826.1	11855.4	11410.9	11136.0
12323.3	55°	12136.1	12065.9	12685.9	13042.7	12931.6	12814.6	12966.7	13036.8	12680.1	12229.7
13732.8	57.5°	13574.9	13610.0	13920.0	14270.9	14452.2	14481.5	14551.7	14481.5	14118.9	13662.7
15352.9	60°	15013.7	15119.0	15721.4	16382.3	16440.8	16955.5	16861.9	16511.0	15996.3	15347.1
15487.5	62.5°	15545.9	15458.2	16429.1	18043.4	19417.8	20359.5	19944.2	18698.4	17505.3	16323.8
14580.9	65°	14475.6	14692.0	16013.8	18540.5	21523.4	25249.0	23038.2	19593.3	17183.6	15657.1
12504.6	67.5°	12475.4	12639.1	14317.7	16984.7	22277.8	28255.3	24207.9	18329.9	15154.1	13177.2
8691.2	70°	8691.2	8773.1	10416.6	13914.1	20201.5	26664.4	21839.2	14077.9	10463.4	8340.3
3573.6	72.5°	3497.5	3696.4	4778.4	8381.2	14914.3	20260.0	14703.7	7387.0	4339.8	3228.5
1286.7	75°	1292.6	1298.4	1526.5	2883.4	7082.8	12732.7	6632.5	2374.6	1386.2	1134.7
777.9	77.5°	748.6	742.8	795.4	1041.1	2052.9	4971.4	1883.3	929.9	754.5	678.5
491.3	80°	467.9	462.1	543.9	690.2	900.7	1362.8	795.4	579.0	508.8	438.7
321.7	82.5°	298.3	304.1	427.0	508.8	549.8	602.4	462.1	409.4	380.2	251.5
181.3	85°	193.0	175.5	298.3	339.2	304.1	269.0	257.3	216.4	198.9	122.8
93.6	87.5°	87.7	93.6	152.1	169.6	111.1	64.3	64.3	46.8	46.8	29.2
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°
5597.2
5509.5
5544.6
5486.1
5421.8
5410.1
5404.2
5427.6
5415.9
5427.6
5468.6
5550.5
5725.9
6071.0
6416.1
6708.5
7129.6
7685.2
8299.4
9124.0
9937.0
11200.3
12387.6
13516.4
15376.3
16411.6
15487.5
13282.5
8457.3
2930.2
1082.0
649.2
438.7
245.6
134.5
29.2
0.0

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