

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: P574894

Luminaire Tested: **EPH-VN-08-735-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574894  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

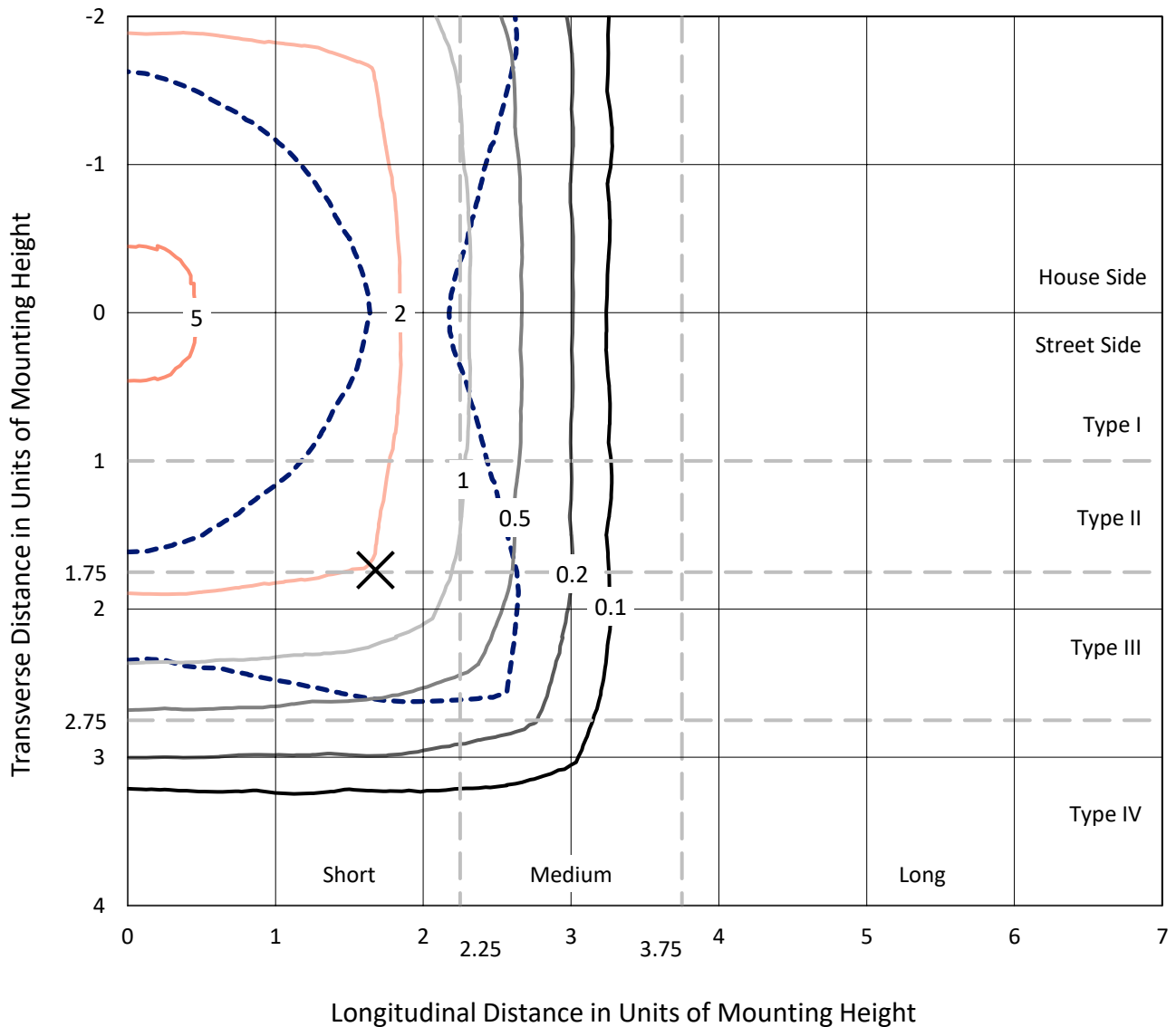
Lumens per Lamp: N/A  
Luminaire Lumens: 55501.2 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

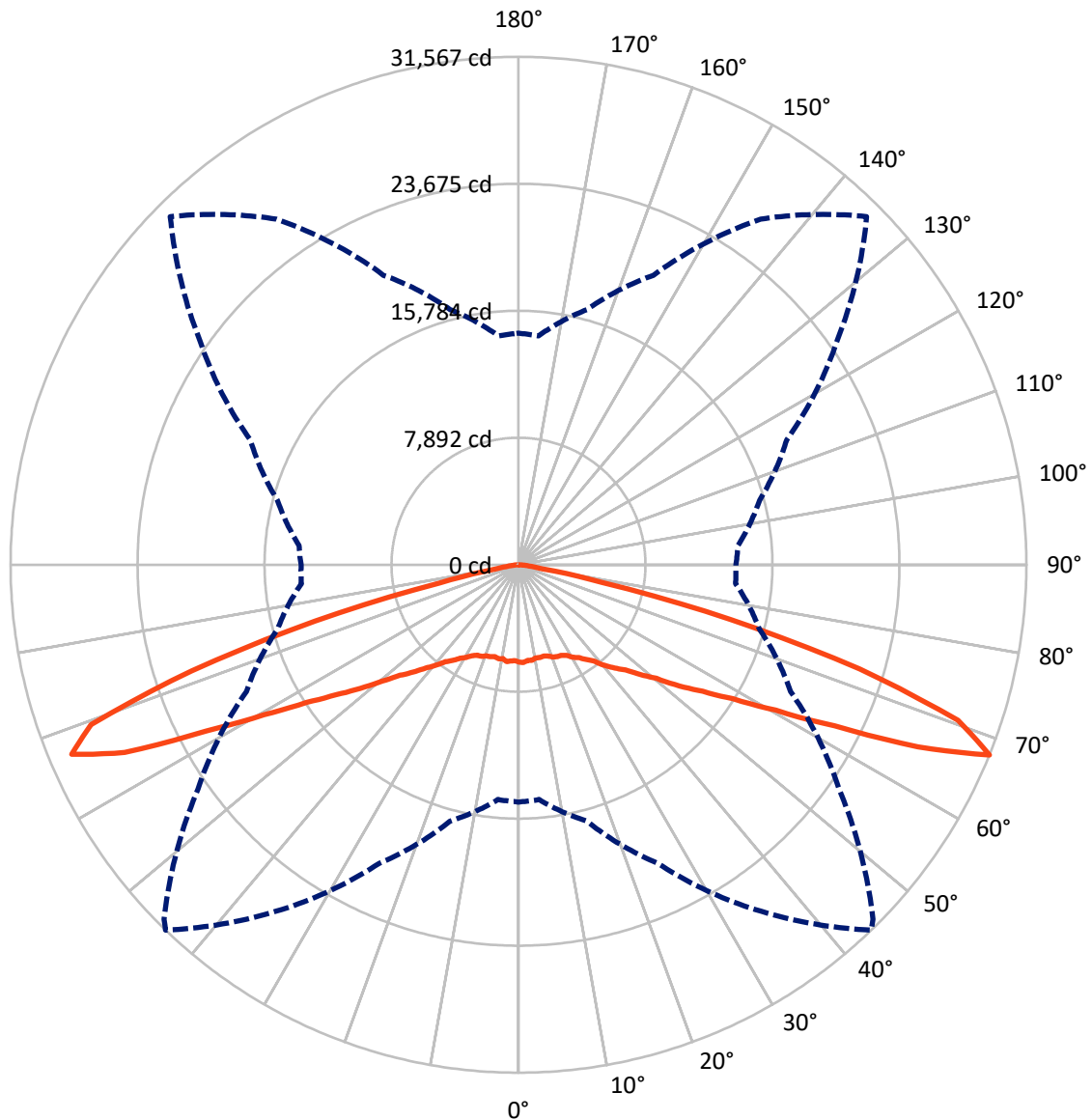
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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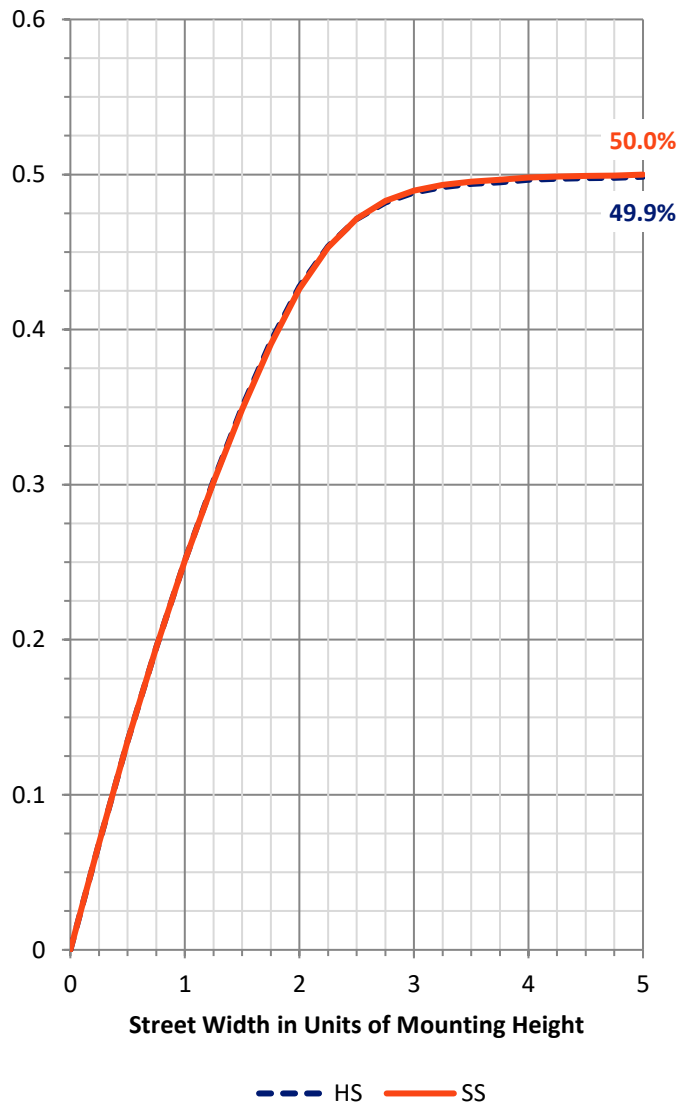
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27679.6	0.0	27679.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	27821.7	0.0	27821.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	55501.2	0.0	55501.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.7	1.0
10°-20°	1676.0	3.0
20°-30°	2850.2	5.1
30°-40°	4519.1	8.1
40°-50°	7368.8	13.3
50°-60°	12584.9	22.7
60°-70°	19141.6	34.5
70°-80°	6451.9	11.6
80°-90°	335.0	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°	55501.2	100.0
0°-180°	55501.2	100.0

**Coefficient of Utilization**



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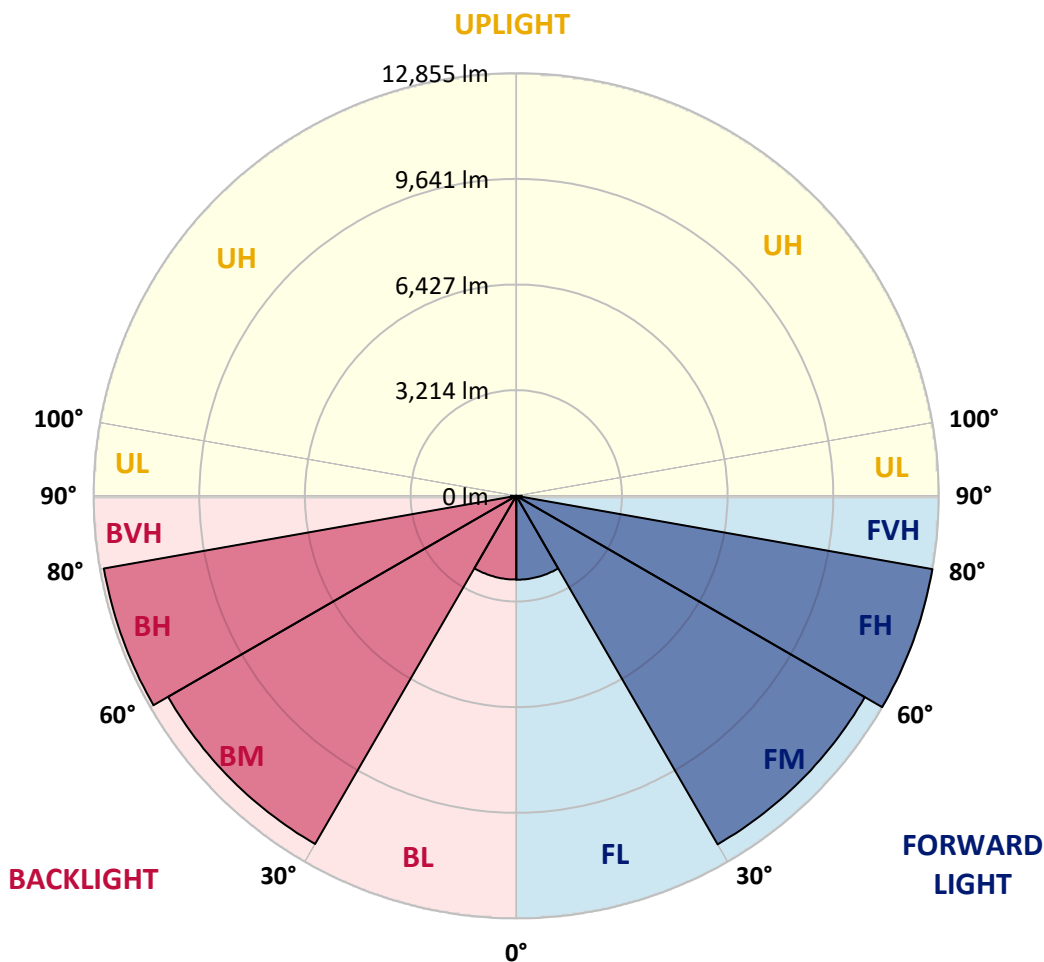
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2552.6	4.6			
FM (30°-60°)	12243.0	22.1			
FH (60°-80°)	12854.7	23.2			G5
FVH (80°-90°)	171.4	0.3			G2/225
BL (0°-30°)	2547.4	4.6	B4/5000		
BM (30°-60°)	12229.8	22.0	B5		
BH (60°-80°)	12738.8	23.0	B5		G5
BVH (80°-90°)	163.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6
2.5°	5923.2	5992.9	6043.5	6037.2	6056.2	6075.2	6049.9	6087.9	6062.6	6106.9
5°	6037.2	6018.2	6024.5	5986.5	6075.2	5973.9	5973.9	6024.5	6087.9	6011.9
7.5°	5967.5	5954.9	5923.2	5980.2	5999.2	5999.2	6049.9	5954.9	6062.6	6087.9
10°	5891.5	5821.8	5916.8	5973.9	5986.5	5885.2	5929.5	5954.9	5923.2	5954.9
12.5°	5828.2	5866.2	5866.2	5866.2	5847.2	5916.8	5961.2	5954.9	5891.5	5948.5
15°	5821.8	5802.8	5859.8	5910.5	5878.8	5891.5	5910.5	5967.5	5847.2	5872.5
17.5°	5815.5	5840.8	5859.8	5853.5	5961.2	5961.2	5942.2	5904.2	5999.2	5948.5
20°	5840.8	5821.8	5872.5	5891.5	5967.5	6119.6	6062.6	6030.9	5980.2	5916.8
22.5°	5872.5	5859.8	5929.5	6011.9	6157.6	6195.6	6189.3	6151.2	6062.6	5986.5
25°	5986.5	5872.5	5948.5	6106.9	6157.6	6233.6	6284.3	6233.6	6113.2	6132.2
27.5°	6157.6	6138.6	6239.9	6347.6	6303.3	6373.0	6328.6	6366.6	6373.0	6277.9
30°	6360.3	6303.3	6366.6	6575.7	6594.7	6670.7	6594.7	6493.3	6525.0	6442.7
32.5°	6651.7	6632.7	6753.1	6892.4	6917.8	6879.8	6841.8	6898.8	6765.7	6702.4
35°	6841.8	6924.1	7069.8	7177.5	7259.9	7221.8	7240.9	7183.8	7215.5	7082.5
37.5°	7405.6	7373.9	7405.6	7589.3	7608.3	7589.3	7608.3	7671.6	7627.3	7513.3
40°	7937.7	7887.0	7963.0	8172.1	8159.4	8222.8	8096.1	8165.8	8165.8	7950.4
42.5°	8336.8	8507.8	8596.5	8767.6	8830.9	8773.9	8748.6	8761.2	8900.6	8647.2
45°	9160.3	9154.0	9420.1	9515.1	9337.7	9325.1	9274.4	9426.4	9521.4	9375.7
47.5°	10053.6	10097.9	10250.0	10288.0	10395.7	10199.3	10199.3	10218.3	10554.0	10211.9
50°	10858.1	10915.1	11219.2	11516.9	11314.2	11105.2	11187.5	11288.9	11472.6	11149.5
52.5°	11833.7	12144.1	12346.8	12505.2	12650.9	12505.2	12315.2	12429.2	12790.3	12359.5
55°	13240.1	13487.1	13677.2	13968.6	14088.9	13892.6	13873.6	13860.9	14063.6	13607.5
57.5°	14811.1	14709.8	15013.8	15463.6	15900.7	15710.7	15653.7	15666.3	15717.0	15070.9
60°	16762.3	16876.3	17237.4	17630.2	18092.6	18358.7	17984.9	17769.6	17813.9	16933.3
62.5°	17877.2	18130.6	18947.9	20297.2	21228.4	22058.3	22115.3	20715.3	19777.7	18067.3
65°	17338.8	17300.8	18840.2	21336.1	24864.7	27278.3	26917.2	23521.7	20246.5	17528.8
67.5°	14747.8	14646.4	16508.9	20468.2	26296.4	31567.1	31155.3	24313.6	18662.8	15508.0
70°	9502.4	9477.1	11497.9	15603.0	23477.3	28982.4	29134.5	22083.7	15191.2	11358.6
72.5°	3452.6	3661.6	4833.6	8387.5	15945.1	22172.3	22267.4	16350.5	8735.9	5251.7
75°	1273.3	1311.3	1526.7	2724.0	7266.2	13613.8	13968.6	7931.4	3104.1	1710.4
77.5°	734.9	741.2	817.2	1013.6	2153.9	5315.0	5530.4	2407.3	1203.6	912.2
80°	500.5	494.1	576.5	658.8	861.6	1507.7	1602.7	1007.3	760.2	633.5
82.5°	291.4	310.4	424.4	468.8	525.8	665.2	677.8	627.2	570.1	468.8
85°	177.4	145.7	234.4	259.7	304.1	297.7	297.7	342.1	367.4	329.4
87.5°	44.3	44.3	57.0	63.3	82.4	63.3	69.7	133.0	177.4	164.7
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°
6062.6	0°	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6	6062.6
6132.2	2.5°	6075.2	6056.2	6068.9	6138.6	6094.2	5961.2	5992.9	6062.6	6005.5	5973.9
6056.2	5°	6049.9	6087.9	6043.5	6056.2	6100.6	5992.9	6011.9	6100.6	6062.6	6075.2
6094.2	7.5°	6056.2	6075.2	6037.2	5980.2	5980.2	6068.9	6018.2	6030.9	5973.9	6068.9
5973.9	10°	6018.2	5967.5	5923.2	5954.9	5942.2	5916.8	5897.8	5935.9	5878.8	5961.2
5847.2	12.5°	5904.2	5916.8	5904.2	5891.5	5916.8	5980.2	5878.8	5891.5	5802.8	5815.5
5872.5	15°	5859.8	5897.8	5885.2	5954.9	5986.5	5891.5	5967.5	5891.5	5821.8	5783.8
5878.8	17.5°	5878.8	5935.9	5916.8	5967.5	5910.5	5980.2	5992.9	5961.2	5878.8	5847.2
5916.8	20°	5897.8	5878.8	5904.2	5992.9	6075.2	6005.5	6005.5	5986.5	5910.5	5866.2
5973.9	22.5°	5942.2	5910.5	5948.5	6018.2	6043.5	6151.2	6056.2	6011.9	5885.2	5771.1
6018.2	25°	6030.9	6049.9	6075.2	6049.9	6189.3	6176.6	6163.9	6132.2	5935.9	5942.2
6163.9	27.5°	6201.9	6094.2	6125.9	6277.9	6296.9	6347.6	6284.3	6341.3	6132.2	6138.6
6385.6	30°	6411.0	6296.9	6398.3	6531.3	6525.0	6620.0	6588.4	6601.0	6455.3	6373.0
6601.0	32.5°	6639.0	6626.4	6689.7	6772.1	6803.7	6854.4	6848.1	6848.1	6759.4	6544.0
7038.1	35°	6892.4	6981.1	7057.1	7145.8	7158.5	7221.8	7133.2	7145.8	7057.1	6898.8
7399.2	37.5°	7392.9	7386.6	7468.9	7576.6	7589.3	7538.6	7608.3	7576.6	7456.2	7348.5
7906.0	40°	7975.7	7849.0	7925.0	8178.4	8197.4	8108.7	8102.4	8096.1	8007.4	7773.0
8552.2	42.5°	8482.5	8647.2	8634.5	8716.9	8659.9	8615.5	8773.9	8685.2	8615.5	8368.5
9337.7	45°	9135.0	9185.7	9350.4	9616.5	9344.1	9344.1	9451.8	9382.1	9344.1	9160.3
10034.6	47.5°	9945.9	9990.2	10319.6	10338.6	10161.3	10040.9	10376.7	10389.3	10231.0	10091.6
10997.5	50°	10896.1	10915.1	11212.9	11516.9	11320.6	11092.5	11434.6	11567.6	11212.9	11022.8
12169.5	52.5°	11941.4	11884.4	12131.4	12701.6	12511.5	12441.9	12809.3	12841.0	12359.5	12061.8
13347.8	55°	13145.0	13069.0	13740.5	14127.0	14006.6	13879.9	14044.6	14120.6	13734.2	13246.4
14874.5	57.5°	14703.4	14741.4	15077.2	15457.3	15653.7	15685.4	15761.4	15685.4	15292.6	14798.5
16629.3	60°	16261.8	16375.9	17028.4	17744.2	17807.6	18365.0	18263.7	17883.6	17326.1	16622.9
16775.0	62.5°	16838.3	16743.3	17794.9	19543.3	21032.1	22052.0	21602.2	20252.9	18960.5	17680.9
15793.0	65°	15679.0	15913.4	17345.1	20081.8	23312.6	27348.0	24953.4	21222.1	18612.1	16958.7
13544.1	67.5°	13512.5	13689.8	15508.0	18396.7	24129.8	30604.2	26220.4	19853.8	16413.9	14272.7
9413.7	70°	9413.7	9502.4	11282.6	15070.9	21880.9	28881.1	23654.7	15248.2	11333.2	9033.6
3870.7	72.5°	3788.3	4003.7	5175.7	9078.0	16154.1	21944.3	15926.1	8001.0	4700.5	3496.9
1393.7	75°	1400.0	1406.4	1653.4	3123.1	7671.6	13791.2	7183.8	2572.0	1501.4	1229.0
842.5	77.5°	810.9	804.5	861.6	1127.6	2223.6	5384.7	2039.9	1007.3	817.2	734.9
532.1	80°	506.8	500.5	589.2	747.5	975.6	1476.0	861.6	627.2	551.1	475.1
348.4	82.5°	323.1	329.4	462.5	551.1	595.5	652.5	500.5	443.4	411.8	272.4
196.4	85°	209.1	190.0	323.1	367.4	329.4	291.4	278.7	234.4	215.4	133.0
101.4	87.5°	95.0	101.4	164.7	183.7	120.4	69.7	69.7	50.7	50.7	31.7
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°  
6062.6  
5967.5  
6005.5  
5942.2  
5872.5  
5859.8  
5853.5  
5878.8  
5866.2  
5878.8  
5923.2  
6011.9  
6201.9  
6575.7  
6949.4  
7266.2  
7722.3  
8324.1  
8989.3  
9882.5  
10763.1  
12131.4  
13417.4  
14640.1  
16654.6  
17775.9  
16775.0  
**14386.7**  
9160.3  
3173.8  
1172.0  
703.2  
475.1  
266.1  
145.7  
31.7  
0.0

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