

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: P574892

Luminaire Tested: **EPH-VN-06-735-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574892
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

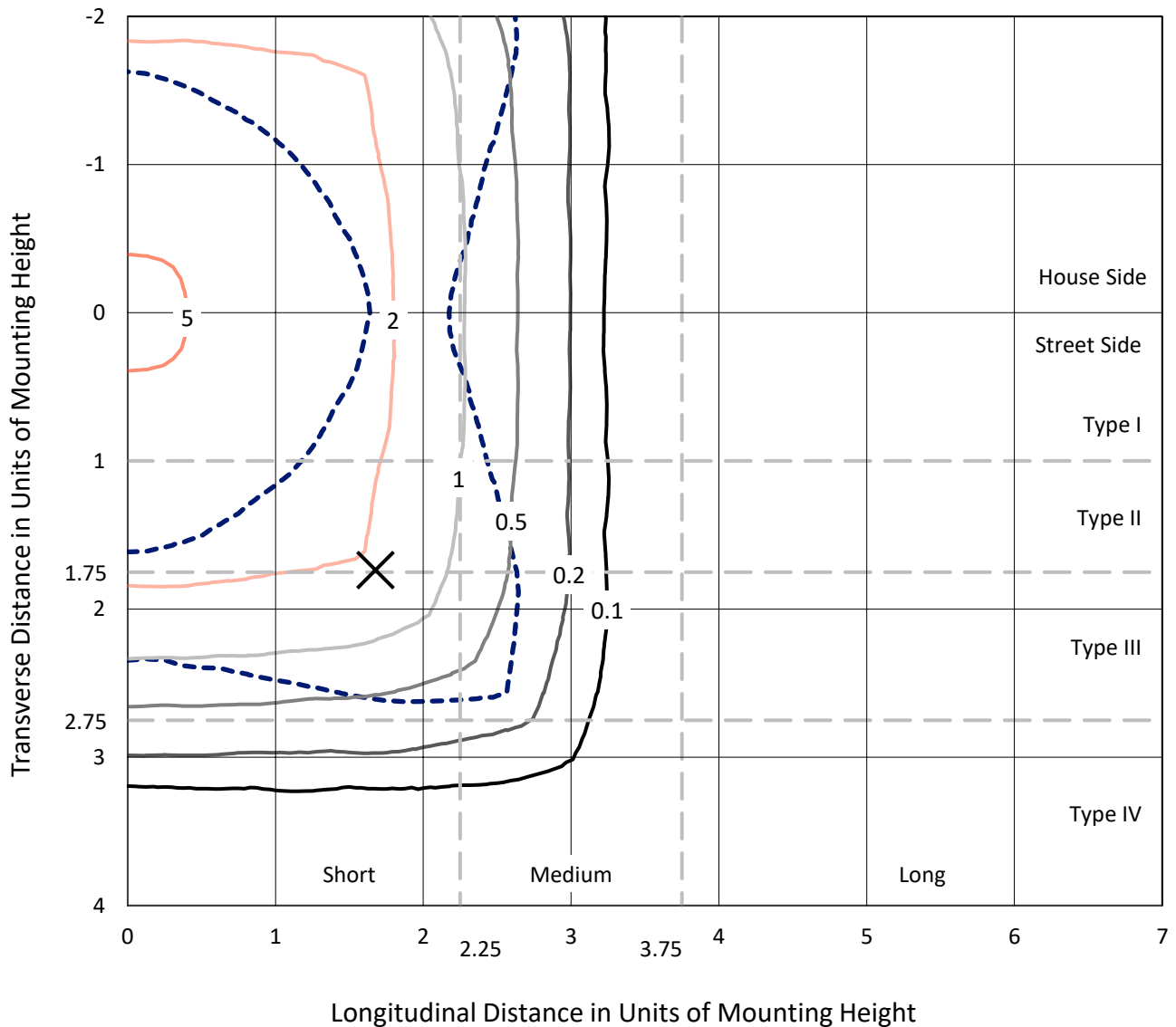
Lumens per Lamp: N/A
Luminaire Lumens: 52679.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

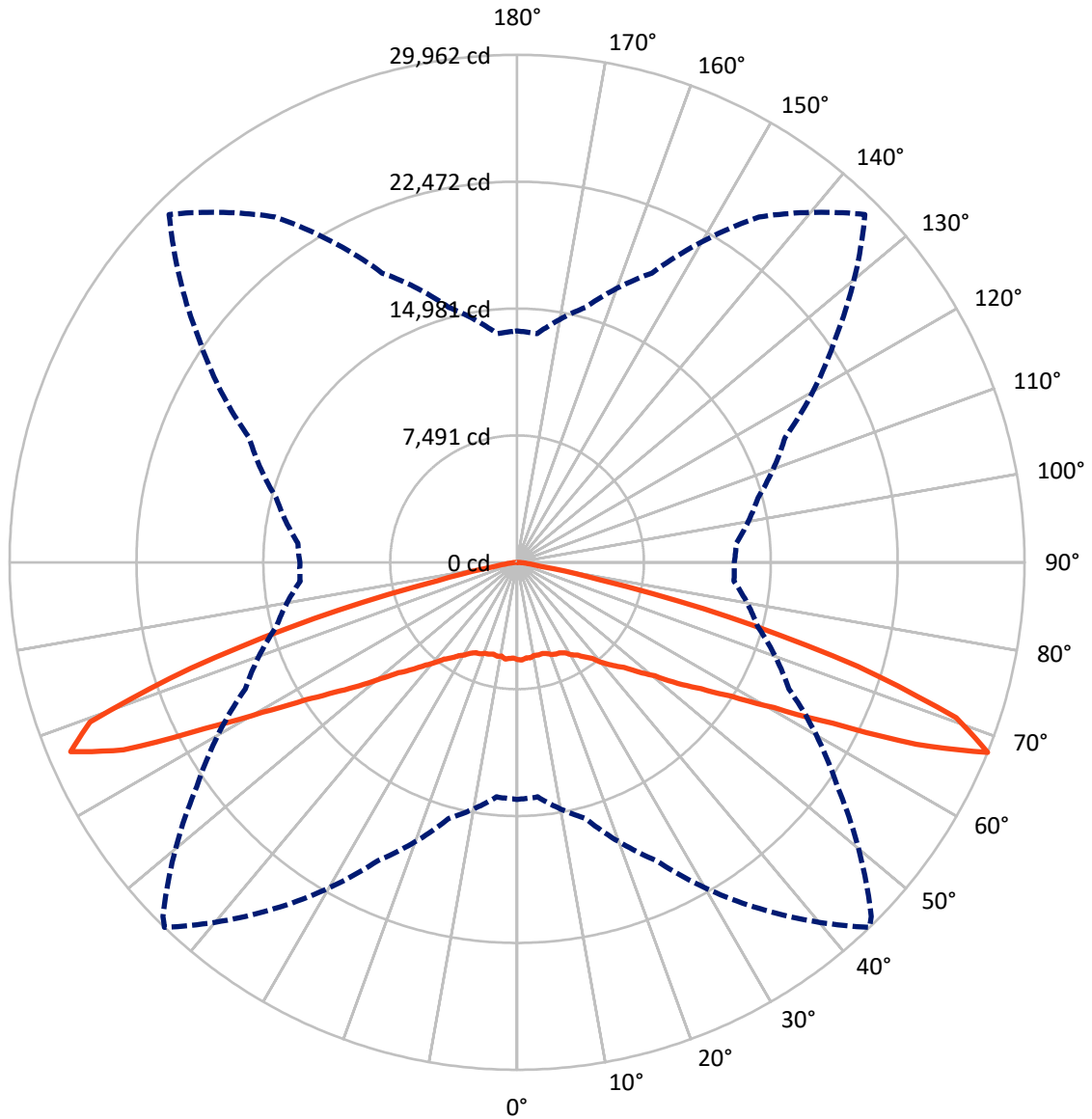
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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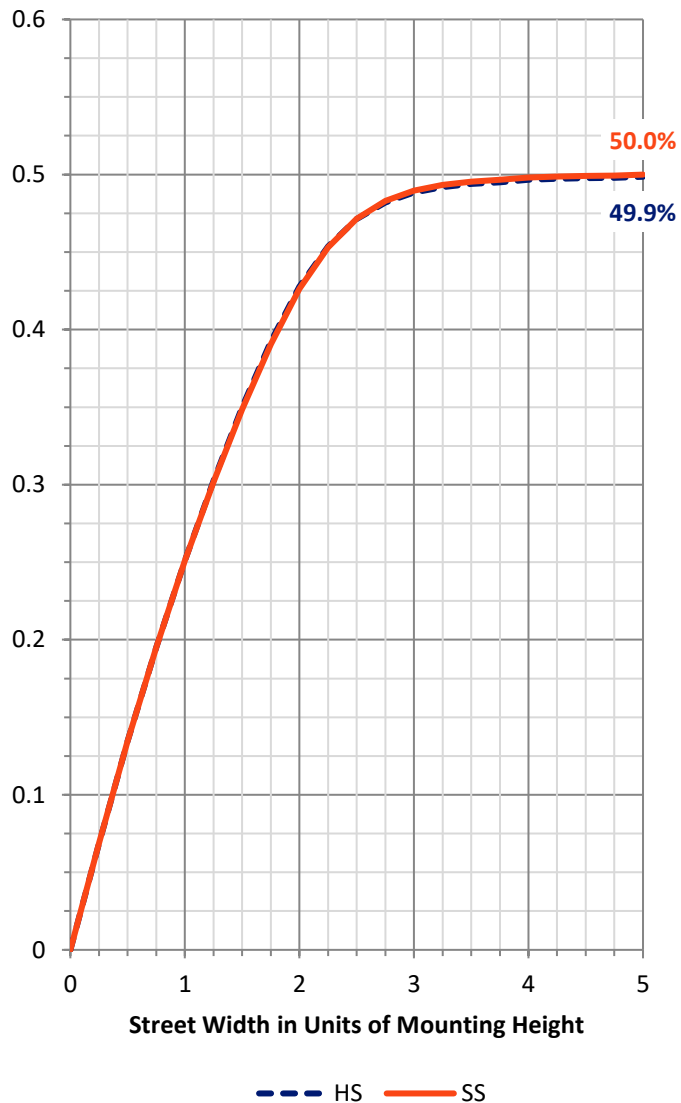
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26272.1	0.0	26272.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	26407.0	0.0	26407.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	52679.1	0.0	52679.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	1.0
10°-20°	1590.8	3.0
20°-30°	2705.3	5.1
30°-40°	4289.3	8.1
40°-50°	6994.1	13.3
50°-60°	11945.0	22.7
60°-70°	18168.2	34.5
70°-80°	6123.8	11.6
80°-90°	317.9	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°	52679.1	100.0
0°-180°	52679.1	100.0

Coefficient of Utilization

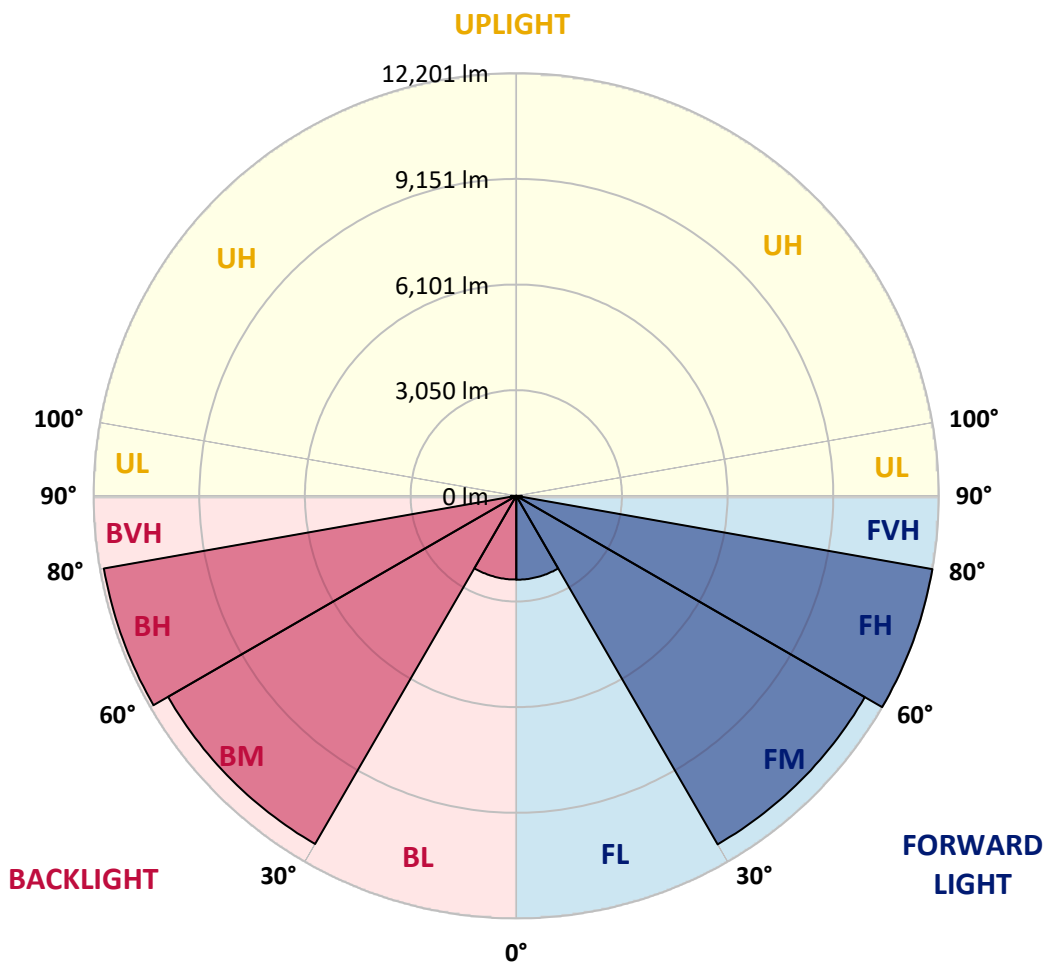


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2422.8	4.6			
FM (30°-60°)	11620.5	22.1			
FH (60°-80°)	12201.0	23.2			G5
FVH (80°-90°)	162.7	0.3			G2/225
BL (0°-30°)	2417.8	4.6	B3/2500		
BM (30°-60°)	11607.9	22.0	B5		
BH (60°-80°)	12091.0	23.0	B5		G5
BVH (80°-90°)	155.3	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°	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3
2.5°	5622.0	5688.1	5736.2	5730.2	5748.3	5766.3	5742.3	5778.3	5754.3	5796.4
5°	5730.2	5712.2	5718.2	5682.1	5766.3	5670.1	5670.1	5718.2	5778.3	5706.2
7.5°	5664.1	5652.1	5622.0	5676.1	5694.2	5694.2	5742.3	5652.1	5754.3	5778.3
10°	5591.9	5525.8	5616.0	5670.1	5682.1	5585.9	5628.0	5652.1	5622.0	5652.1
12.5°	5531.8	5567.9	5567.9	5567.9	5549.8	5616.0	5658.1	5652.1	5591.9	5646.1
15°	5525.8	5507.8	5561.9	5610.0	5579.9	5591.9	5610.0	5664.1	5549.8	5573.9
17.5°	5519.8	5543.8	5561.9	5555.9	5658.1	5658.1	5640.0	5604.0	5694.2	5646.1
20°	5543.8	5525.8	5573.9	5591.9	5664.1	5808.4	5754.3	5724.2	5676.1	5616.0
22.5°	5573.9	5561.9	5628.0	5706.2	5844.5	5880.6	5874.5	5838.5	5754.3	5682.1
25°	5682.1	5573.9	5646.1	5796.4	5844.5	5916.6	5964.7	5916.6	5802.4	5820.4
27.5°	5844.5	5826.4	5922.6	6024.9	5982.8	6048.9	6006.8	6042.9	6048.9	5958.7
30°	6036.9	5982.8	6042.9	6241.3	6259.4	6331.5	6259.4	6163.2	6193.2	6115.1
32.5°	6313.5	6295.4	6409.7	6542.0	6566.0	6529.9	6493.9	6548.0	6421.7	6361.6
35°	6493.9	6572.0	6710.3	6812.5	6890.7	6854.6	6872.7	6818.6	6848.6	6722.3
37.5°	7029.0	6998.9	7029.0	7203.4	7221.4	7203.4	7221.4	7281.5	7239.5	7131.2
40°	7534.1	7486.0	7558.1	7756.6	7744.5	7804.7	7684.4	7750.5	7750.5	7546.1
42.5°	7912.9	8075.2	8159.4	8321.8	8381.9	8327.8	8303.7	8315.7	8448.0	8207.5
45°	8694.6	8688.5	8941.1	9031.3	8862.9	8850.9	8802.8	8947.1	9037.3	8899.0
47.5°	9542.4	9584.5	9728.8	9764.8	9867.1	9680.7	9680.7	9698.7	10017.4	9692.7
50°	10306.0	10360.1	10648.7	10931.3	10738.9	10540.5	10618.7	10714.9	10889.2	10582.6
52.5°	11232.0	11526.6	11719.0	11869.3	12007.6	11869.3	11688.9	11797.2	12139.9	11731.0
55°	12566.8	12801.3	12981.7	13258.3	13372.5	13186.1	13168.1	13156.1	13348.5	12915.6
57.5°	14058.0	13961.8	14250.4	14677.3	15092.2	14911.8	14857.7	14869.7	14917.8	14304.5
60°	15910.0	16018.2	16360.9	16733.7	17172.7	17425.2	17070.4	16866.0	16908.1	16072.3
62.5°	16968.2	17208.7	17984.4	19265.1	20149.0	20936.7	20990.8	19662.0	18772.1	17148.6
65°	16457.1	16421.0	17882.2	20251.2	23600.4	25891.3	25548.5	22325.7	19217.0	16637.5
67.5°	13997.9	13901.7	15669.4	19427.5	24959.3	29962.0	29571.1	23077.3	17713.8	14719.4
70°	9019.3	8995.2	10913.3	14809.6	22283.6	27508.7	27653.0	20960.7	14418.8	10781.0
72.5°	3277.0	3475.4	4587.8	7961.0	15134.3	21044.9	21135.1	15519.1	8291.7	4984.6
75°	1208.6	1244.7	1449.1	2585.5	6896.7	12921.6	13258.3	7528.1	2946.3	1623.5
77.5°	697.5	703.5	775.7	962.1	2044.4	5044.8	5249.2	2284.9	1142.4	865.8
80°	475.0	469.0	547.2	625.3	817.7	1431.1	1521.2	956.0	721.5	601.3
82.5°	276.6	294.6	402.9	444.9	499.1	631.3	643.4	595.3	541.2	444.9
85°	168.4	138.3	222.5	246.5	288.6	282.6	282.6	324.7	348.7	312.7
87.5°	42.1	42.1	54.1	60.1	78.2	60.1	66.1	126.3	168.4	156.3
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°
5754.3	0°	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3	5754.3
5820.4	2.5°	5766.3	5748.3	5760.3	5826.4	5784.3	5658.1	5688.1	5754.3	5700.2	5670.1
5748.3	5°	5742.3	5778.3	5736.2	5748.3	5790.4	5688.1	5706.2	5790.4	5754.3	5766.3
5784.3	7.5°	5748.3	5766.3	5730.2	5676.1	5676.1	5760.3	5712.2	5724.2	5670.1	5760.3
5670.1	10°	5712.2	5664.1	5622.0	5652.1	5640.0	5616.0	5597.9	5634.0	5579.9	5658.1
5549.8	12.5°	5604.0	5616.0	5604.0	5591.9	5616.0	5676.1	5579.9	5591.9	5507.8	5519.8
5573.9	15°	5561.9	5597.9	5585.9	5652.1	5682.1	5591.9	5664.1	5591.9	5525.8	5489.7
5579.9	17.5°	5579.9	5634.0	5616.0	5664.1	5610.0	5676.1	5688.1	5658.1	5579.9	5549.8
5616.0	20°	5597.9	5579.9	5604.0	5688.1	5766.3	5700.2	5700.2	5682.1	5610.0	5567.9
5670.1	22.5°	5640.0	5610.0	5646.1	5712.2	5736.2	5838.5	5748.3	5706.2	5585.9	5477.7
5712.2	25°	5724.2	5742.3	5766.3	5742.3	5874.5	5862.5	5850.5	5820.4	5634.0	5640.0
5850.5	27.5°	5886.6	5784.3	5814.4	5958.7	5976.8	6024.9	5964.7	6018.8	5820.4	5826.4
6060.9	30°	6085.0	5976.8	6073.0	6199.2	6193.2	6283.4	6253.3	6265.4	6127.1	6048.9
6265.4	32.5°	6301.4	6289.4	6349.6	6427.7	6457.8	6505.9	6499.9	6499.9	6415.7	6211.3
6680.3	35°	6542.0	6626.1	6698.3	6782.5	6794.5	6854.6	6770.5	6782.5	6698.3	6548.0
7023.0	37.5°	7017.0	7011.0	7089.1	7191.3	7203.4	7155.3	7221.4	7191.3	7077.1	6974.9
7504.0	40°	7570.2	7449.9	7522.1	7762.6	7780.6	7696.4	7690.4	7684.4	7600.2	7377.7
8117.3	42.5°	8051.2	8207.5	8195.5	8273.7	8219.5	8177.5	8327.8	8243.6	8177.5	7943.0
8862.9	45°	8670.5	8718.6	8874.9	9127.5	8868.9	8868.9	8971.1	8905.0	8868.9	8694.6
9524.3	47.5°	9440.1	9482.2	9794.9	9812.9	9644.6	9530.3	9849.0	9861.0	9710.7	9578.4
10438.3	50°	10342.1	10360.1	10642.7	10931.3	10744.9	10528.5	10853.2	10979.4	10642.7	10462.3
11550.7	52.5°	11334.2	11280.1	11514.6	12055.7	11875.3	11809.2	12158.0	12188.0	11731.0	11448.4
12669.0	55°	12476.6	12404.5	13041.8	13408.6	13294.4	13174.1	13330.5	13402.6	13035.8	12572.8
14118.1	57.5°	13955.8	13991.9	14310.5	14671.3	14857.7	14887.8	14959.9	14887.8	14515.0	14046.0
15783.7	60°	15434.9	15543.2	16162.5	16841.9	16902.1	17431.2	17335.0	16974.2	16445.1	15777.7
15922.0	62.5°	15982.1	15891.9	16890.1	18549.6	19962.6	20930.7	20503.8	19223.0	17996.4	16781.8
14990.0	65°	14881.8	15104.2	16463.1	19060.7	22127.2	25957.4	23684.6	20143.0	17665.7	16096.4
12855.4	67.5°	12825.4	12993.7	14719.4	17461.3	22902.9	29048.0	24887.1	18844.2	15579.3	13546.9
8935.1	70°	8935.1	9019.3	10708.9	14304.5	20768.3	27412.5	22451.9	14472.9	10757.0	8574.3
3673.8	72.5°	3595.7	3800.1	4912.5	8616.4	15332.7	20828.5	15116.3	7594.2	4461.5	3319.1
1322.8	75°	1328.8	1334.8	1569.3	2964.3	7281.5	13089.9	6818.6	2441.2	1425.0	1166.5
799.7	77.5°	769.6	763.6	817.7	1070.3	2110.5	5110.9	1936.1	956.0	775.7	697.5
505.1	80°	481.0	475.0	559.2	709.5	926.0	1401.0	817.7	595.3	523.1	451.0
330.7	82.5°	306.7	312.7	438.9	523.1	565.2	619.3	475.0	420.9	390.8	258.6
186.4	85°	198.4	180.4	306.7	348.7	312.7	276.6	264.6	222.5	204.4	126.3
96.2	87.5°	90.2	96.2	156.3	174.4	114.2	66.1	66.1	48.1	48.1	30.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
5754.3
5664.1
5700.2
5640.0
5573.9
5561.9
5555.9
5579.9
5567.9
5579.9
5622.0
5706.2
5886.6
6241.3
6596.1
6896.7
7329.6
7900.9
8532.2
9380.0
10215.8
11514.6
12735.2
13895.7
15807.7
16872.0
15922.0
13655.1
8694.6
3012.4
1112.4
667.4
451.0
252.5
138.3
30.1
0.0

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