

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: P574904

Luminaire Tested: **EPH-VN-06-750-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574904  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-750-U-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

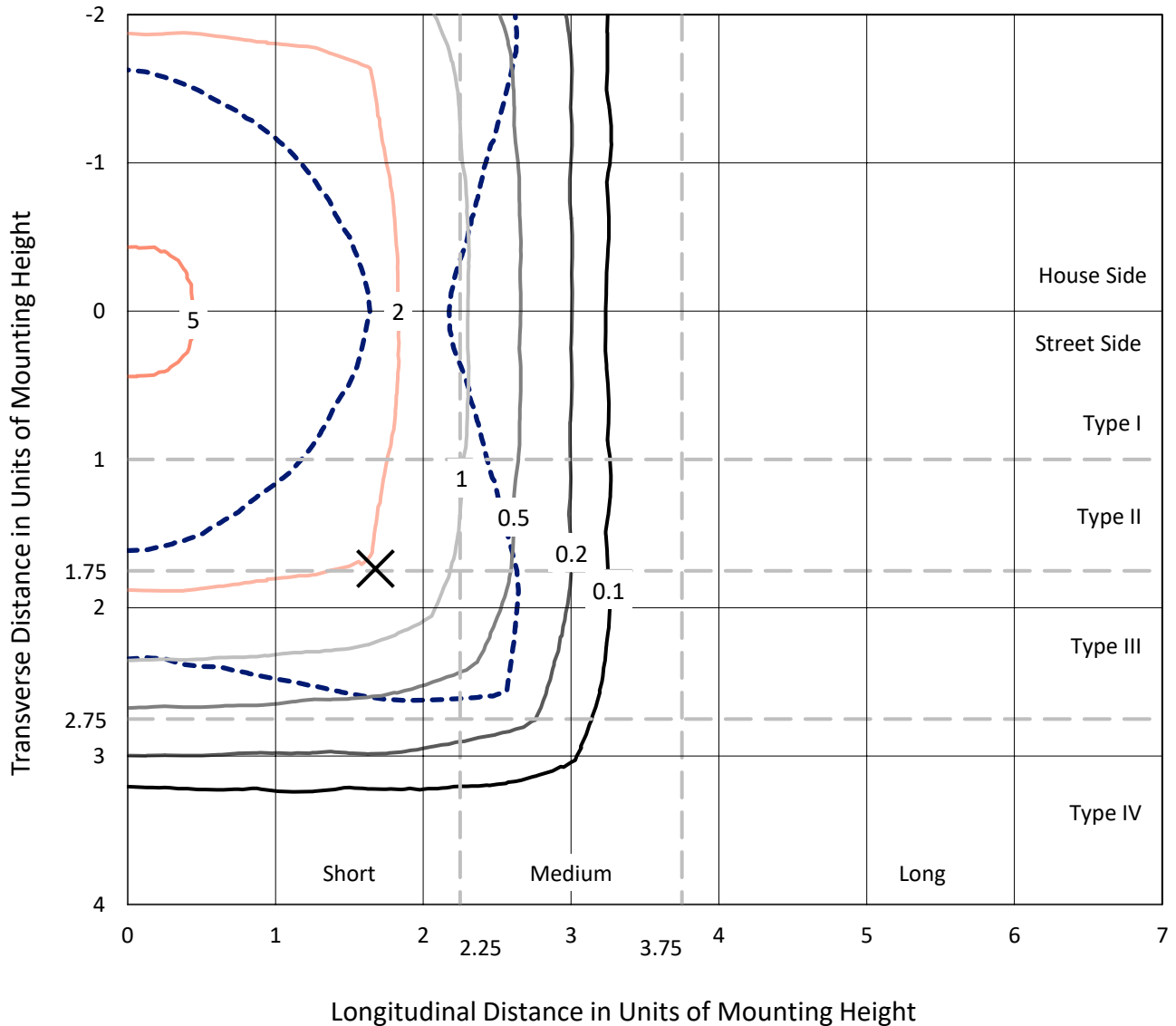
Lumens per Lamp: N/A  
Luminaire Lumens: 54633.9 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

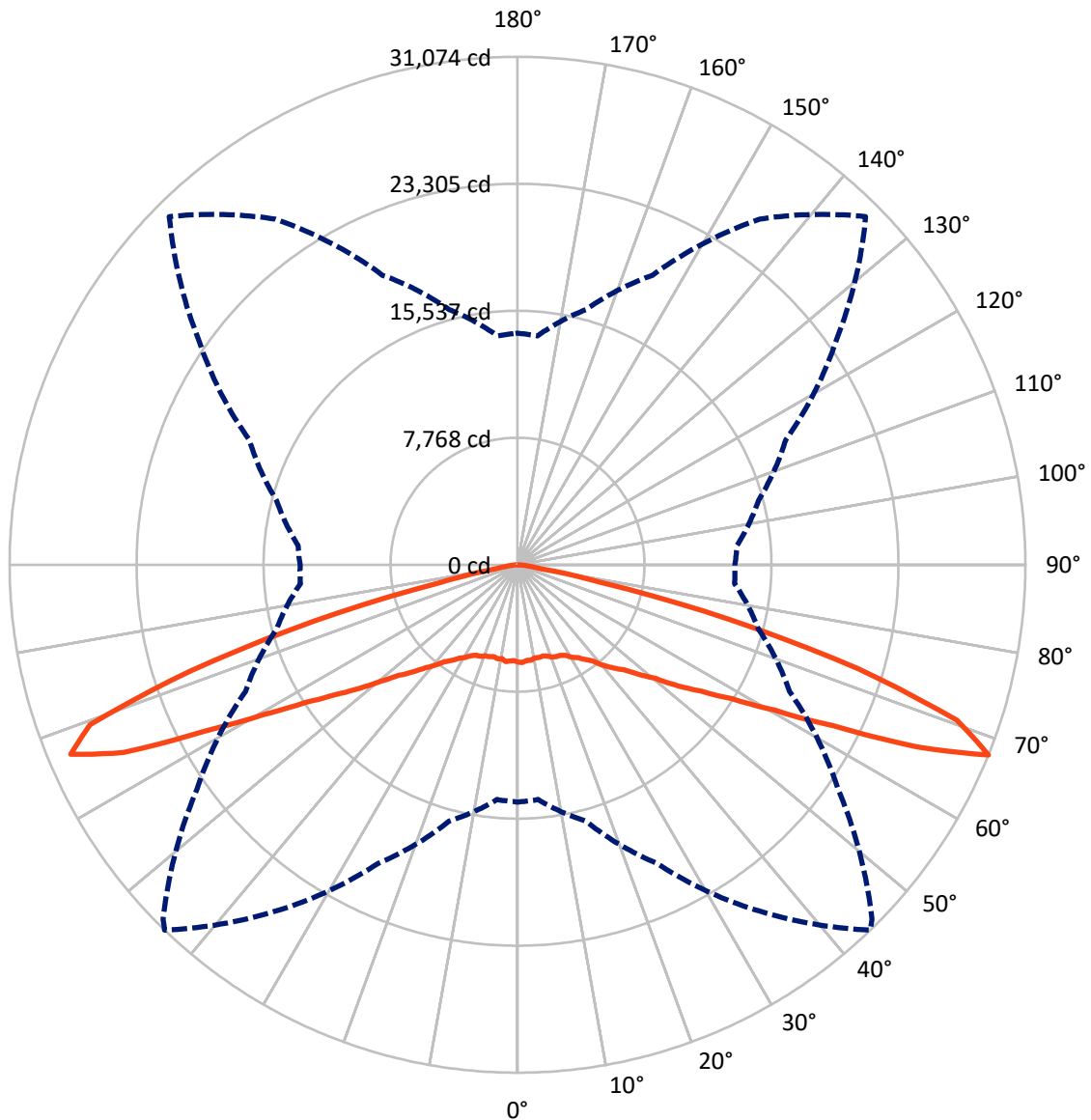
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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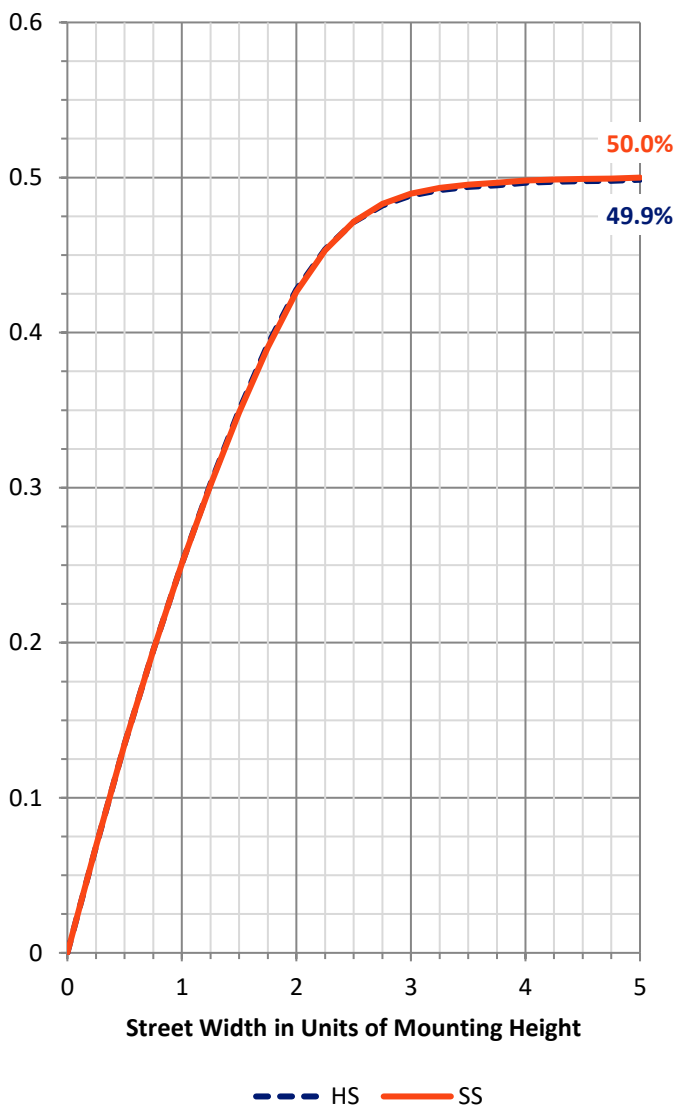
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27247.0	0.0	27247.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	27386.9	0.0	27386.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	54633.9	0.0	54633.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.7	1.0
10°-20°	1649.9	3.0
20°-30°	2805.7	5.1
30°-40°	4448.5	8.1
40°-50°	7253.7	13.3
50°-60°	12388.3	22.7
60°-70°	18842.4	34.5
70°-80°	6351.1	11.6
80°-90°	329.7	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°	54633.9	100.0
0°-180°	54633.9	100.0

**Coefficient of Utilization**



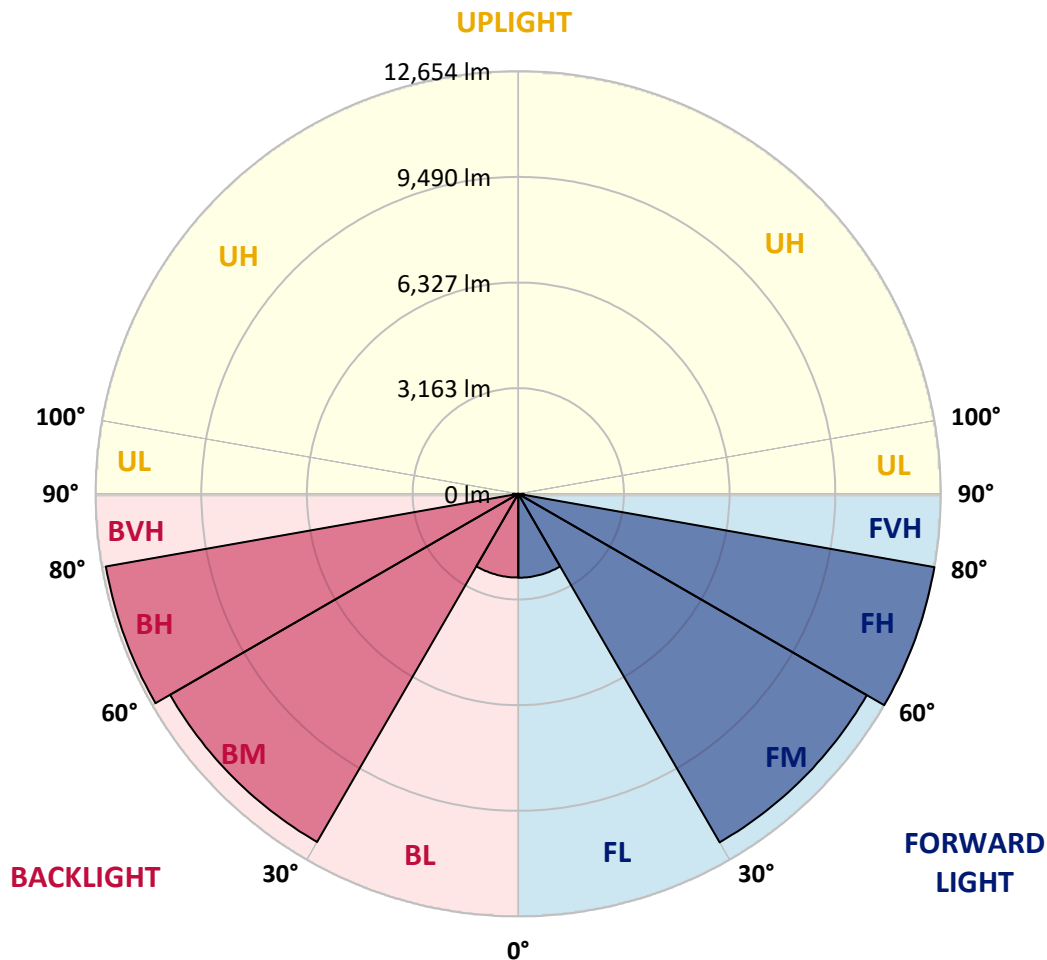
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2512.7	4.6			
FM (30°-60°)	12051.7	22.1			
FH (60°-80°)	12653.8	23.2			G5
FVH (80°-90°)	168.7	0.3			G2/225
BL (0°-30°)	2507.5	4.6	B4/5000		
BM (30°-60°)	12038.7	22.0	B5		
BH (60°-80°)	12539.7	23.0	B5		G5
BVH (80°-90°)	161.1	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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
2.5°	5830.6	5899.2	5949.1	5942.9	5961.6	5980.3	5955.3	5992.8	5967.8	6011.5
5°	5942.9	5924.2	5930.4	5893.0	5980.3	5880.5	5880.5	5930.4	5992.8	5917.9
7.5°	5874.3	5861.8	5830.6	5886.7	5905.5	5905.5	5955.3	5861.8	5967.8	5992.8
10°	5799.4	5730.8	5824.4	5880.5	5893.0	5793.2	5836.9	5861.8	5830.6	5861.8
12.5°	5737.1	5774.5	5774.5	5774.5	5755.8	5824.4	5868.0	5861.8	5799.4	5855.6
15°	5730.8	5712.1	5768.3	5818.2	5787.0	5799.4	5818.2	5874.3	5755.8	5780.7
17.5°	5724.6	5749.6	5768.3	5762.0	5868.0	5868.0	5849.3	5811.9	5905.5	5855.6
20°	5749.6	5730.8	5780.7	5799.4	5874.3	6023.9	5967.8	5936.6	5886.7	5824.4
22.5°	5780.7	5768.3	5836.9	5917.9	6061.4	6098.8	6092.5	6055.1	5967.8	5893.0
25°	5893.0	5780.7	5855.6	6011.5	6061.4	6136.2	6186.1	6136.2	6017.7	6036.4
27.5°	6061.4	6042.6	6142.4	6248.4	6204.8	6273.4	6229.7	6267.1	6273.4	6179.8
30°	6260.9	6204.8	6267.1	6472.9	6491.6	6566.5	6491.6	6391.9	6423.0	6342.0
32.5°	6547.8	6529.1	6647.5	6784.7	6809.7	6772.3	6734.8	6791.0	6660.0	6597.6
35°	6734.8	6815.9	6959.3	7065.3	7146.4	7109.0	7127.7	7071.6	7102.8	6971.8
37.5°	7289.8	7258.7	7289.8	7470.7	7489.4	7470.7	7489.4	7551.7	7508.1	7395.8
40°	7813.7	7763.8	7838.6	8044.4	8031.9	8094.3	7969.6	8038.2	8038.2	7826.1
42.5°	8206.5	8374.9	8462.2	8630.6	8692.9	8636.8	8611.9	8624.3	8761.5	8512.1
45°	9017.2	9011.0	9272.9	9366.4	9191.8	9179.3	9129.4	9279.1	9372.6	9229.2
47.5°	9896.5	9940.1	10089.8	10127.2	10233.2	10039.9	10039.9	10058.6	10389.1	10052.4
50°	10688.4	10744.6	11043.9	11337.0	11137.4	10931.6	11012.7	11112.5	11293.3	10975.3
52.5°	11648.8	11954.3	12153.9	12309.8	12453.2	12309.8	12122.7	12235.0	12590.4	12166.4
55°	13033.2	13276.4	13463.4	13750.3	13868.8	13675.5	13656.8	13644.3	13843.8	13394.8
57.5°	14579.7	14479.9	14779.2	15222.0	15652.3	15465.2	15409.1	15421.5	15471.4	14835.3
60°	16500.4	16612.6	16968.0	17354.7	17809.9	18071.8	17703.9	17491.9	17535.5	16668.7
62.5°	17597.9	17847.3	18651.8	19980.0	20896.7	21713.6	21769.7	20391.6	19468.7	17785.0
65°	17067.8	17030.4	18545.7	21002.7	24476.1	26852.0	26496.6	23154.1	19930.1	17254.9
67.5°	14517.3	14417.5	16250.9	20148.4	25885.5	31073.8	30668.5	23933.6	18371.1	15265.6
70°	9353.9	9329.0	11318.3	15359.2	23110.5	28529.5	28679.2	21738.6	14953.8	11181.1
72.5°	3398.6	3604.4	4758.0	8256.4	15695.9	21825.9	21919.4	16095.0	8599.4	5169.6
75°	1253.4	1290.8	1502.9	2681.5	7152.6	13401.1	13750.3	7807.4	3055.6	1683.7
77.5°	723.4	729.6	804.4	997.8	2120.2	5232.0	5444.0	2369.7	1184.8	898.0
80°	492.6	486.4	567.5	648.5	848.1	1484.2	1577.7	991.5	748.3	623.6
82.5°	286.9	305.6	417.8	461.5	517.6	654.8	667.2	617.4	561.2	461.5
85°	174.6	143.4	230.7	255.7	299.3	293.1	293.1	336.7	361.7	324.3
87.5°	43.7	43.7	56.1	62.4	81.1	62.4	68.6	131.0	174.6	162.1
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°
5967.8	0°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
6036.4	2.5°	5980.3	5961.6	5974.1	6042.6	5999.0	5868.0	5899.2	5967.8	5911.7	5880.5
5961.6	5°	5955.3	5992.8	5949.1	5961.6	6005.2	5899.2	5917.9	6005.2	5967.8	5980.3
5999.0	7.5°	5961.6	5980.3	5942.9	5886.7	5886.7	5974.1	5924.2	5936.6	5880.5	5974.1
5880.5	10°	5924.2	5874.3	5830.6	5861.8	5849.3	5824.4	5805.7	5843.1	5787.0	5868.0
5755.8	12.5°	5811.9	5824.4	5811.9	5799.4	5824.4	5886.7	5787.0	5799.4	5712.1	5724.6
5780.7	15°	5768.3	5805.7	5793.2	5861.8	5893.0	5799.4	5874.3	5799.4	5730.8	5693.4
5787.0	17.5°	5787.0	5843.1	5824.4	5874.3	5818.2	5886.7	5899.2	5868.0	5787.0	5755.8
5824.4	20°	5805.7	5787.0	5811.9	5899.2	5980.3	5911.7	5911.7	5893.0	5818.2	5774.5
5880.5	22.5°	5849.3	5818.2	5855.6	5924.2	5949.1	6055.1	5961.6	5917.9	5793.2	5681.0
5924.2	25°	5936.6	5955.3	5980.3	5955.3	6092.5	6080.1	6067.6	6036.4	5843.1	5849.3
6067.6	27.5°	6105.0	5999.0	6030.2	6179.8	6198.5	6248.4	6186.1	6242.2	6036.4	6042.6
6285.8	30°	6310.8	6198.5	6298.3	6429.3	6423.0	6516.6	6485.4	6497.9	6354.4	6273.4
6497.9	32.5°	6535.3	6522.8	6585.2	6666.2	6697.4	6747.3	6741.1	6741.1	6653.8	6441.7
6928.2	35°	6784.7	6872.0	6946.9	7034.2	7046.6	7109.0	7021.7	7034.2	6946.9	6791.0
7283.6	37.5°	7277.4	7271.1	7352.2	7458.2	7470.7	7420.8	7489.4	7458.2	7339.7	7233.7
7782.5	40°	7851.1	7726.4	7801.2	8050.6	8069.3	7982.0	7975.8	7969.6	7882.3	7651.5
8418.5	42.5°	8350.0	8512.1	8499.6	8580.7	8524.6	8480.9	8636.8	8549.5	8480.9	8237.7
9191.8	45°	8992.3	9042.1	9204.3	9466.2	9198.0	9198.0	9304.1	9235.5	9198.0	9017.2
9877.8	47.5°	9790.5	9834.1	10158.4	10177.1	10002.5	9884.0	10214.5	10227.0	10071.1	9933.9
10825.6	50°	10725.9	10744.6	11037.7	11337.0	11143.7	10919.2	11255.9	11386.9	11037.7	10850.6
11979.3	52.5°	11754.8	11698.7	11941.9	12503.1	12316.0	12247.4	12609.1	12640.3	12166.4	11873.3
13139.2	55°	12939.6	12864.8	13525.8	13906.2	13787.7	13663.0	13825.1	13900.0	13519.6	13039.4
14642.0	57.5°	14473.7	14511.1	14841.6	15215.7	15409.1	15440.2	15515.1	15440.2	15053.6	14567.2
16369.4	60°	16007.7	16120.0	16762.3	17466.9	17529.3	18078.0	17978.3	17604.1	17055.4	16363.2
16512.8	62.5°	16575.2	16481.6	17516.8	19237.9	20703.4	21707.4	21264.6	19936.4	18664.2	17404.6
15546.2	65°	15434.0	15664.7	17074.1	19768.0	22948.3	26920.6	24563.4	20890.5	18321.3	16693.7
13332.5	67.5°	13301.3	13475.9	15265.6	18109.2	23752.8	30125.9	25810.6	19543.5	16157.4	14049.6
9266.6	70°	9266.6	9353.9	11106.2	14835.3	21539.0	28429.7	23285.1	15010.0	11156.1	8892.5
3810.2	72.5°	3729.1	3941.1	5094.8	8936.1	15901.7	21601.4	15677.2	7876.0	4627.1	3442.3
1371.9	75°	1378.1	1384.4	1627.6	3074.3	7551.7	13575.7	7071.6	2531.8	1477.9	1209.8
829.4	77.5°	798.2	792.0	848.1	1110.0	2188.8	5300.6	2008.0	991.5	804.4	723.4
523.8	80°	498.9	492.6	579.9	735.8	960.3	1453.0	848.1	617.4	542.5	467.7
343.0	82.5°	318.0	324.3	455.2	542.5	586.2	642.3	492.6	436.5	405.3	268.1
193.3	85°	205.8	187.1	318.0	361.7	324.3	286.9	274.4	230.7	212.0	131.0
99.8	87.5°	93.5	99.8	162.1	180.8	118.5	68.6	68.6	49.9	49.9	31.2
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





180°  
5967.8  
5874.3  
5911.7  
5849.3  
5780.7  
5768.3  
5762.0  
5787.0  
5774.5  
5787.0  
5830.6  
5917.9  
6105.0  
6472.9  
6840.8  
7152.6  
7601.6  
8194.1  
8848.8  
9728.1  
10594.9  
11941.9  
13207.8  
14411.3  
16394.3  
17498.1  
16512.8  
*14161.9*  
9017.2  
3124.2  
1153.7  
692.2  
467.7  
261.9  
143.4  
31.2  
0.0

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