

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: P574852

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

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574852
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-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

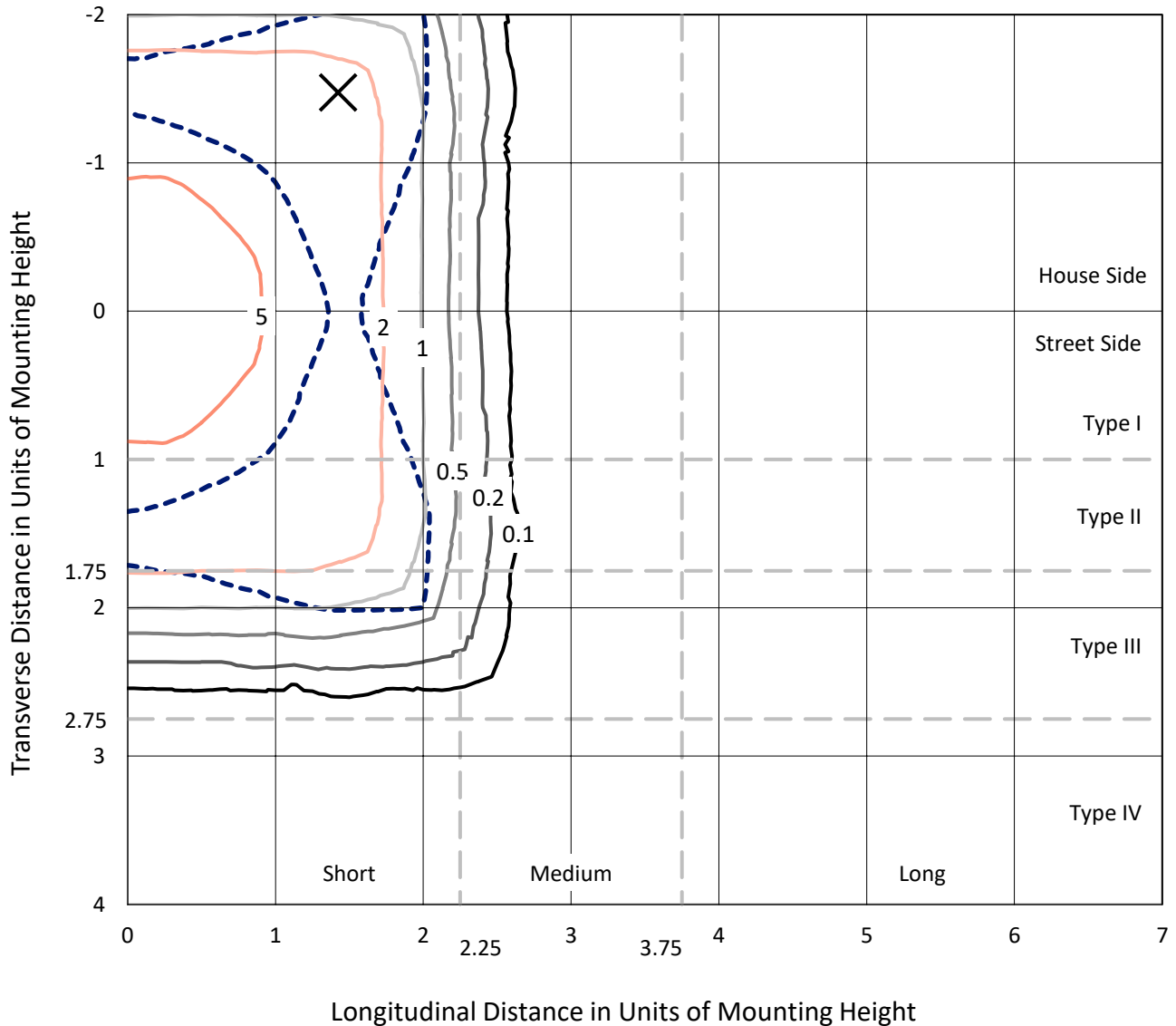
Lumens per Lamp: N/A
Luminaire Lumens: 52051 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

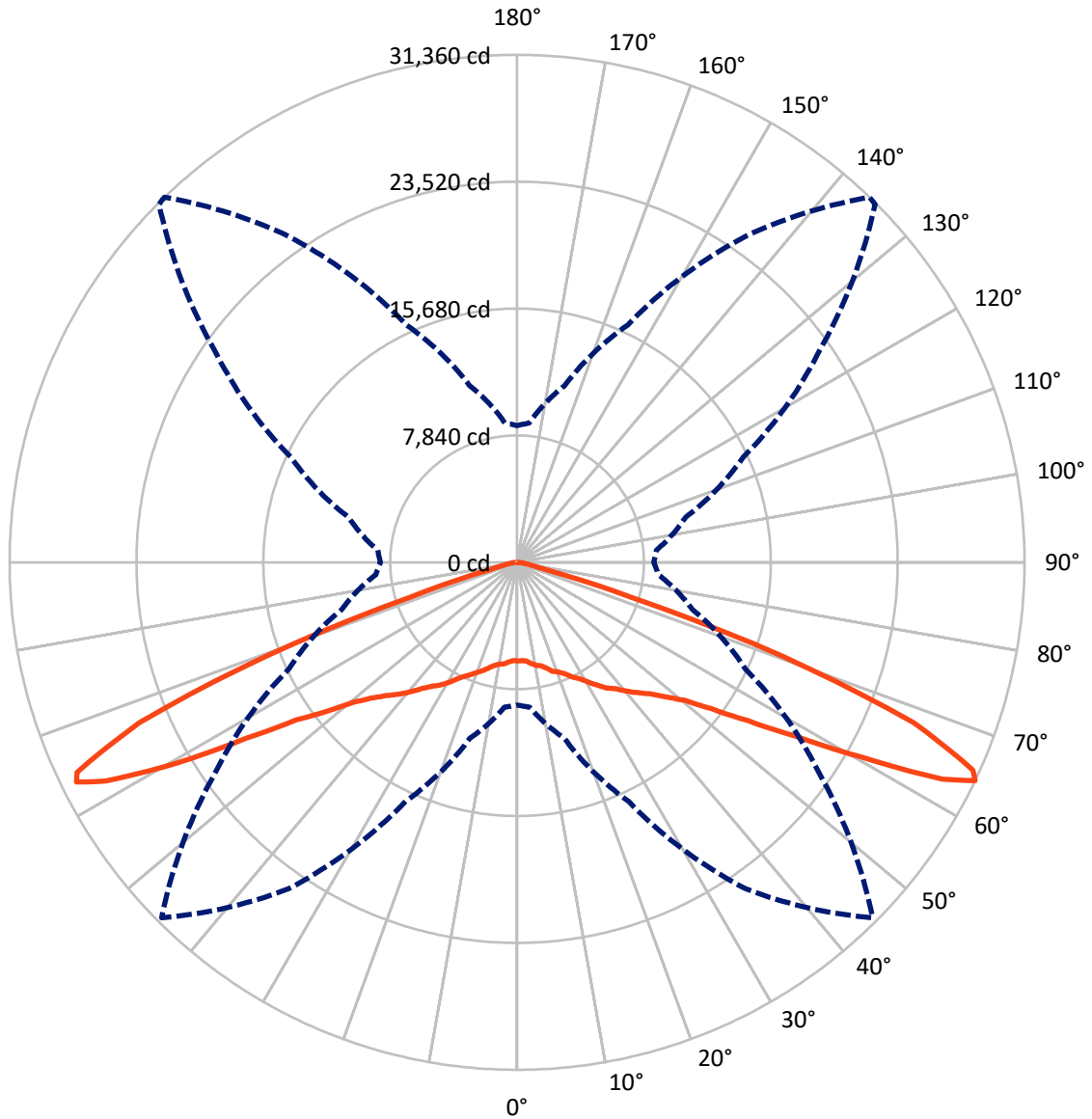
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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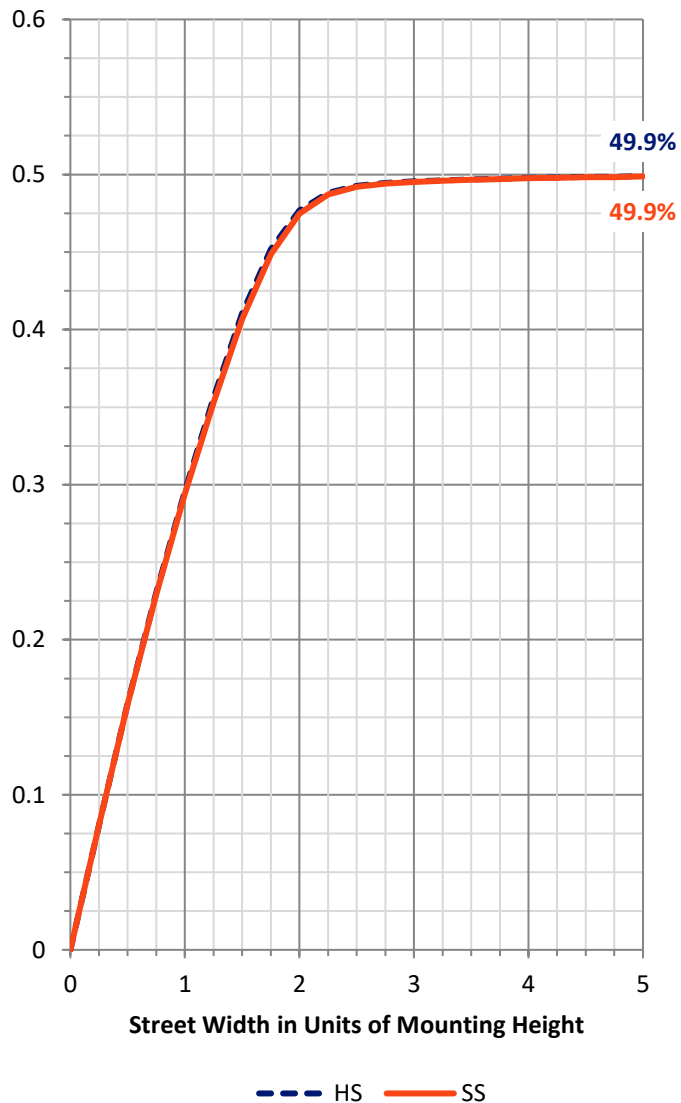
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26050.3	0.0	26050.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26000.7	0.0	26000.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	52051.0	0.0	52051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.8	1.2
10°-20°	1929.9	3.7
20°-30°	3627.1	7.0
30°-40°	5981.7	11.5
40°-50°	9354.9	18.0
50°-60°	15115.3	29.0
60°-70°	13610.4	26.1
70°-80°	1612.2	3.1
80°-90°	220.7	0.4
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°	52051.0	100.0
0°-180°	52051.0	100.0

Coefficient of Utilization

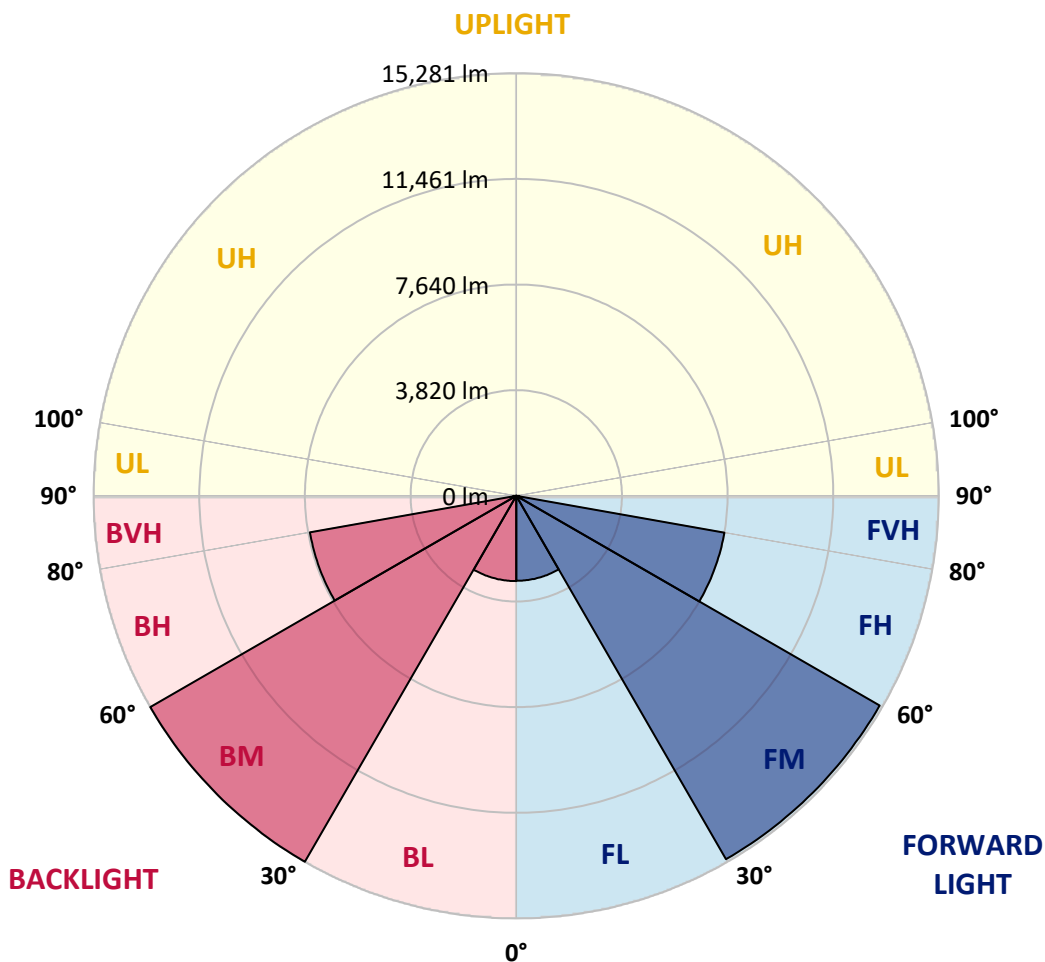


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3072.0	5.9			
FM (30°-60°)	15171.2	29.1			
FH (60°-80°)	7644.3	14.7			G4/12000
FVH (80°-90°)	113.2	0.2			G2/225
BL (0°-30°)	3083.8	5.9	B4/5000		
BM (30°-60°)	15280.7	29.4	B5		
BH (60°-80°)	7578.3	14.6	B5		G4/12000
BVH (80°-90°)	107.5	0.2			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°	45°	55°	65°	75°	85°
0°	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1
2.5°	6022.5	6034.4	6141.9	6100.1	6135.9	6070.2	6118.0	6219.4	6100.1	6189.6
5°	6088.1	6106.0	6106.0	6147.8	6171.7	6159.8	6189.6	6147.8	6261.2	6213.5
7.5°	6326.9	6297.0	6249.3	6285.1	6291.1	6320.9	6350.8	6404.5	6386.6	6344.8
10°	6368.7	6344.8	6416.4	6422.4	6392.5	6368.7	6398.5	6398.5	6452.2	6464.2
12.5°	6440.3	6464.2	6458.2	6505.9	6511.9	6494.0	6541.8	6631.3	6607.4	6625.3
15°	6714.9	6685.0	6679.0	6726.8	6804.4	6691.0	6774.5	6768.6	6744.7	6780.5
17.5°	6953.6	6858.1	6899.9	6977.5	6947.6	6971.5	7078.9	6983.4	7007.3	6965.5
20°	7162.5	7084.9	7090.9	7120.7	7120.7	7192.4	7234.1	7198.3	7174.4	7168.5
22.5°	7395.3	7305.8	7311.7	7437.1	7478.9	7455.0	7425.1	7484.8	7496.8	7449.0
25°	7568.4	7663.9	7693.7	7753.4	7663.9	7729.5	7705.7	7819.1	7890.7	7795.2
27.5°	8022.0	7980.2	8057.8	8051.9	8123.5	8057.8	8099.6	8135.4	8165.3	8171.2
30°	8427.9	8445.8	8368.2	8577.1	8410.0	8517.4	8589.0	8606.9	8642.8	8642.8
32.5°	8857.6	8821.8	8947.2	8899.4	8869.6	8953.1	8875.5	9120.3	8977.0	9060.6
35°	9341.1	9341.1	9388.9	9520.2	9341.1	9287.4	9430.6	9532.1	9532.1	9382.9
37.5°	9884.3	9836.5	9896.2	10063.3	9926.0	9747.0	10009.6	10051.4	10021.5	9979.8
40°	10266.3	10254.3	10373.7	10594.5	10397.6	10361.8	10409.5	10522.9	10558.7	10600.5
42.5°	10910.9	10964.6	11310.8	11257.1	11095.9	10970.6	10958.6	11382.4	11281.0	11173.5
45°	11865.9	11818.1	11997.2	12003.2	11794.3	11519.7	11579.4	11967.4	12140.5	11901.7
47.5°	12623.9	12647.8	12773.1	13029.8	12546.3	12259.8	12480.7	13107.4	13053.7	12964.1
50°	13638.6	13746.0	14140.0	14050.5	13620.7	13268.5	13752.0	14342.9	14408.6	14080.3
52.5°	15041.3	15208.4	15423.3	15494.9	15083.0	14957.7	14987.5	15721.7	15560.5	15244.2
55°	16270.8	16348.4	16742.4	17333.3	17303.4	16700.6	17046.8	17321.3	16664.8	16014.2
57.5°	16796.1	16831.9	17930.1	19112.0	19816.3	19953.6	19559.6	18634.5	17070.6	15817.2
60°	15488.9	15829.1	17154.2	19822.2	23039.4	24627.1	22006.8	18783.7	16121.6	14599.6
62.5°	12379.2	12397.1	14366.8	18413.6	25044.9	29205.1	22943.9	17381.0	13590.9	11865.9
64°	8815.9	8983.0	11245.1	16300.7	24627.1	31067.4	22830.5	15548.6	11203.4	8756.2
65°	6326.9	6559.7	8744.2	14151.9	23648.2	30846.5	22490.3	13972.9	9060.6	6685.0
67.5°	2327.8	2423.3	3432.0	7078.9	16981.1	26286.4	17822.7	7681.8	3981.2	2835.2
70°	1080.3	1086.3	1271.3	2339.8	7425.1	17578.0	8505.5	2882.9	1498.2	1187.8
72.5°	793.8	811.8	889.3	1080.3	2184.6	7443.0	2793.4	1181.8	877.4	775.9
75°	644.6	656.6	680.4	781.9	1008.7	1993.6	1134.1	817.7	698.3	626.7
77.5°	495.4	495.4	549.1	596.9	668.5	931.1	752.1	650.6	567.0	495.4
80°	358.1	364.1	429.8	465.6	453.6	614.8	543.2	537.2	465.6	388.0
82.5°	208.9	226.8	310.4	334.3	322.3	364.1	393.9	417.8	364.1	268.6
85°	119.4	125.3	179.1	185.0	185.0	173.1	226.8	250.7	244.7	167.1
87.5°	35.8	35.8	47.8	47.8	53.7	59.7	89.5	107.4	119.4	83.6
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):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6094.1	0°	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1	6094.1
6219.4	2.5°	6189.6	6100.1	6106.0	6129.9	6052.3	6082.2	6171.7	6106.0	6088.1	6052.3
6285.1	5°	6159.8	6255.3	6219.4	6231.4	6213.5	6129.9	6118.0	6171.7	6201.5	6147.8
6416.4	7.5°	6368.7	6326.9	6279.1	6297.0	6255.3	6326.9	6374.6	6267.2	6320.9	6291.1
6464.2	10°	6488.0	6410.4	6446.3	6434.3	6404.5	6476.1	6428.4	6416.4	6368.7	6303.0
6583.5	12.5°	6529.8	6619.4	6679.0	6577.6	6595.5	6559.7	6529.8	6529.8	6476.1	6458.2
6685.0	15°	6714.9	6792.4	6768.6	6846.2	6744.7	6780.5	6816.3	6726.8	6774.5	6643.2
6935.7	17.5°	7055.1	6989.4	7073.0	6971.5	7007.3	7078.9	6965.5	6965.5	7001.4	6929.7
7180.4	20°	7269.9	7240.1	7210.3	7216.2	7156.5	7222.2	7186.4	7168.5	7114.8	7138.6
7502.7	22.5°	7472.9	7431.1	7443.0	7460.9	7502.7	7472.9	7455.0	7472.9	7341.6	7460.9
7860.9	25°	7723.6	7837.0	7801.2	7878.8	7759.4	7837.0	7831.0	7717.6	7789.2	7741.5
8141.4	27.5°	8141.4	8081.7	8135.4	8039.9	8123.5	8129.4	8057.8	8248.8	8165.3	8153.3
8553.2	30°	8678.6	8636.8	8601.0	8547.3	8612.9	8559.2	8618.9	8636.8	8559.2	8499.5
8959.1	32.5°	8983.0	9096.4	9138.2	9006.9	9012.8	9042.7	8988.9	8935.2	8983.0	9000.9
9418.7	35°	9412.7	9520.2	9544.0	9442.6	9388.9	9538.1	9430.6	9609.7	9454.5	9460.5
9908.1	37.5°	9914.1	9943.9	10146.9	10033.5	9985.7	9914.1	10111.1	10087.2	10123.0	9836.5
10505.0	40°	10481.1	10588.6	10702.0	10415.5	10409.5	10475.2	10463.2	10600.5	10534.9	10493.1
11119.8	42.5°	11101.9	11328.7	11346.6	11155.6	11036.2	11024.3	11084.0	11388.4	11394.4	11119.8
11991.2	45°	11925.6	12176.3	12110.6	11740.5	11609.2	11591.3	11883.8	12015.1	12128.5	12021.1
13047.7	47.5°	12952.2	13119.3	13071.6	12731.4	12307.6	12427.0	12713.5	13125.3	13005.9	12862.7
14020.6	50°	14050.5	14247.4	14146.0	13805.7	13399.9	13399.9	13752.0	14277.3	14241.5	13960.9
15041.3	52.5°	15268.1	15554.6	15787.4	15303.9	14963.7	15017.4	15572.5	15763.5	15674.0	15477.0
16067.9	55°	16175.3	16724.5	17202.0	17225.8	17243.7	17237.8	17381.0	17572.0	16933.4	16617.0
15739.6	57.5°	15954.5	16993.1	18628.5	19738.7	20067.0	20240.1	20192.3	19308.9	17798.8	16760.3
14486.2	60°	14378.7	16073.9	18712.1	22275.4	24662.9	24424.2	23552.7	20061.0	17321.3	15566.5
11412.3	62.5°	11472.0	13513.3	17309.4	22991.7	29569.2	29497.6	24937.5	18324.1	14432.5	12212.1
8439.8	64°	8642.8	10791.5	15441.2	22806.6	31288.2	31359.8	24585.3	16187.3	11292.9	8642.8
6362.7	65°	6613.4	8606.9	13608.8	22424.6	30918.2	30959.9	23606.4	13978.8	8583.1	6135.9
2548.7	67.5°	2632.2	3664.8	7383.4	17005.0	26549.0	26435.6	16843.8	6762.6	3282.8	2136.8
1104.2	70°	1122.1	1396.7	2590.4	8057.8	17775.0	17446.7	7252.0	2196.5	1217.6	1020.7
758.0	72.5°	770.0	853.5	1110.2	2489.0	7389.3	7216.2	2065.2	1020.7	829.7	764.0
602.8	75°	620.8	680.4	805.8	1044.5	1957.8	1886.1	972.9	752.1	662.5	614.8
477.5	77.5°	483.5	543.2	632.7	722.2	895.3	889.3	650.6	567.0	513.3	477.5
358.1	80°	382.0	441.7	501.4	513.3	584.9	573.0	441.7	447.7	417.8	346.2
244.7	82.5°	262.6	358.1	399.9	364.1	346.2	346.2	316.3	316.3	292.5	214.9
149.2	85°	161.2	238.8	250.7	214.9	161.2	161.2	173.1	167.1	155.2	113.4
77.6	87.5°	83.6	113.4	101.5	83.6	53.7	53.7	47.8	35.8	35.8	29.8
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°
6094.1
6034.4
6255.3
6231.4
6398.5
6476.1
6744.7
6840.2
7186.4
7293.8
7705.7
8129.4
8386.1
8983.0
9299.3
9979.8
10391.6
11000.4
11919.6
12743.3
13853.5
15387.5
16294.7
16867.7
15345.7
12074.8
8433.9
5909.1
2095.0
1014.7
764.0
608.8
465.6
340.2
197.0
107.4
29.8
0.0

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