

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: P575054

Luminaire Tested: **EPH-VN-08-735-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575054
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-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

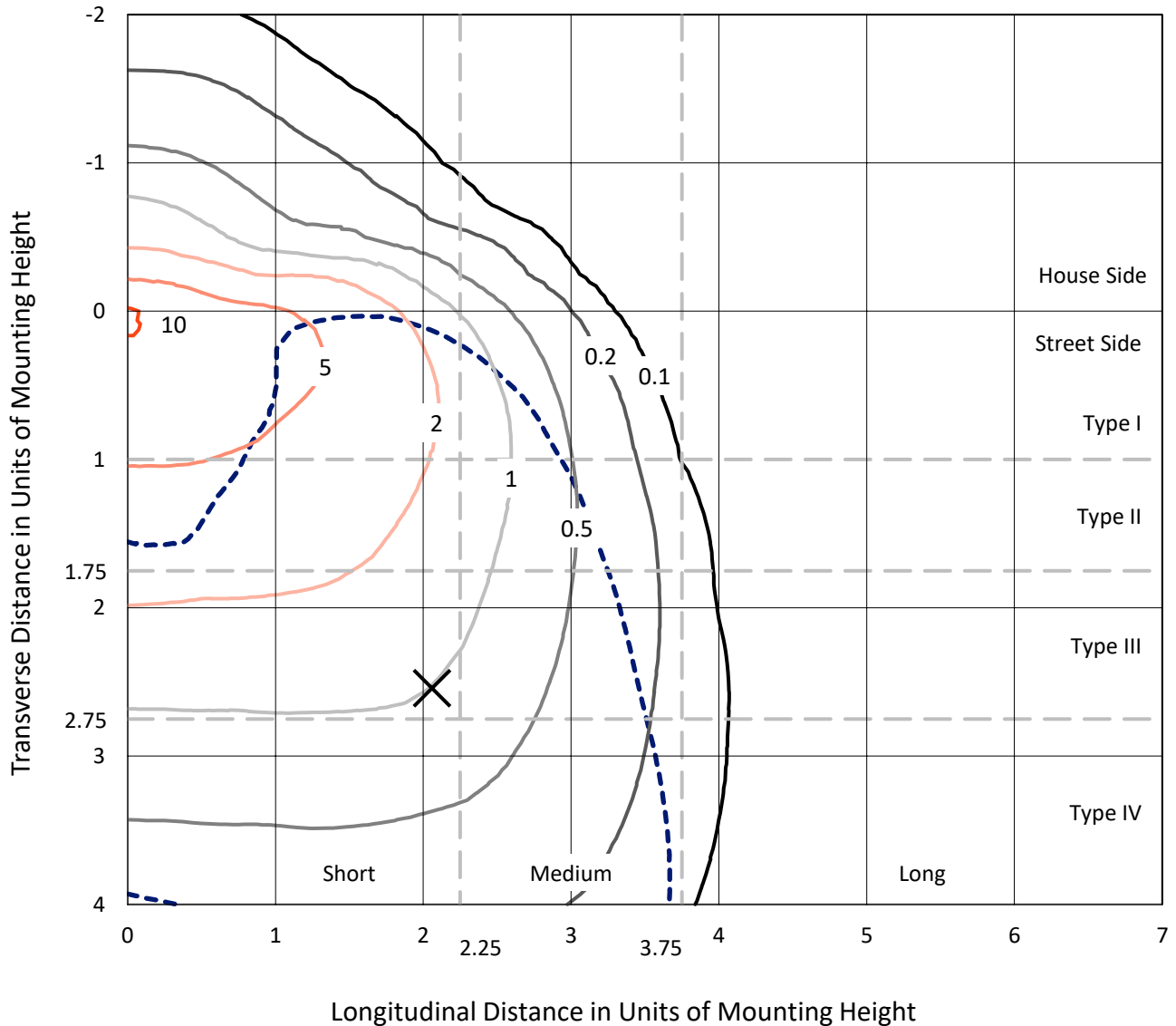
Lumens per Lamp: N/A
Luminaire Lumens: 53184.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

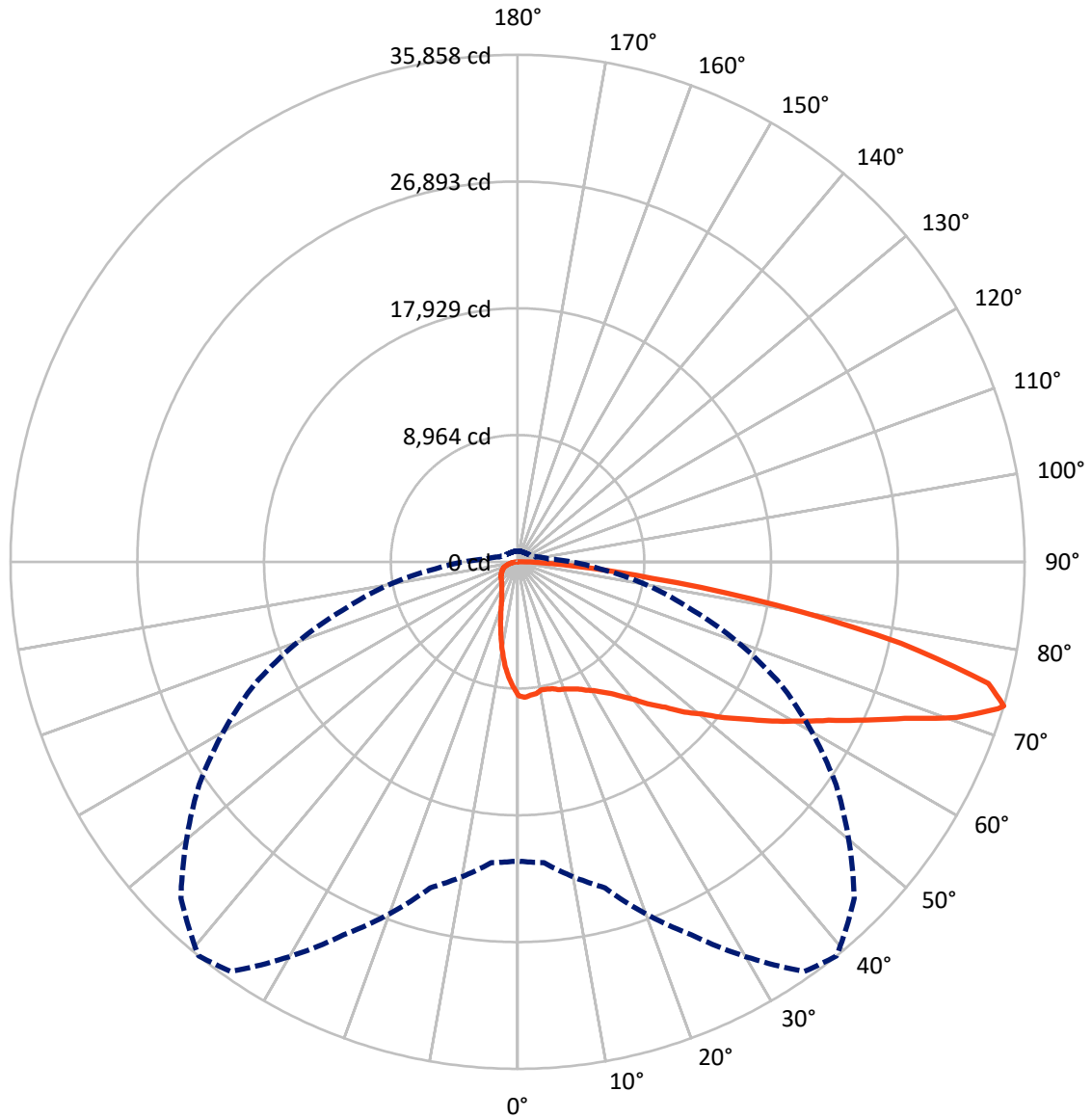
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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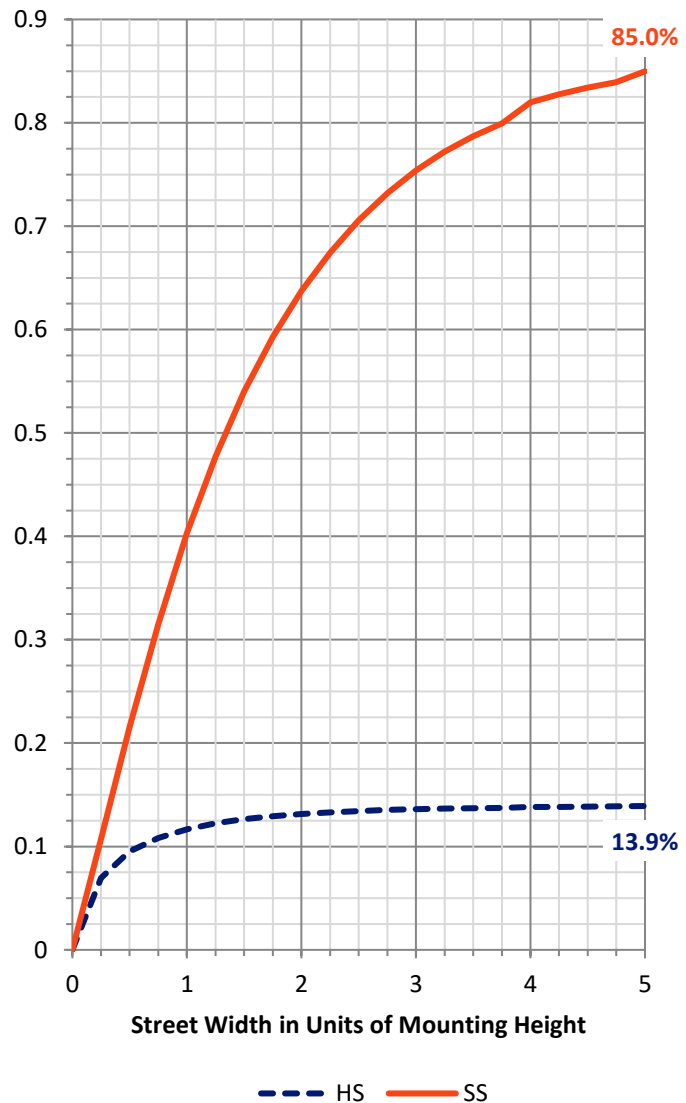
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7476.3	0.0	7476.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	45708.5	0.0	45708.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	53184.8	0.0	53184.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.8	1.5
10°-20°	2089.2	3.9
20°-30°	3192.5	6.0
30°-40°	4654.8	8.8
40°-50°	7033.9	13.2
50°-60°	10185.5	19.2
60°-70°	12941.2	24.3
70°-80°	10490.8	19.7
80°-90°	1775.0	3.3
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°	53184.8	100.0
0°-180°	53184.8	100.0

Coefficient of Utilization

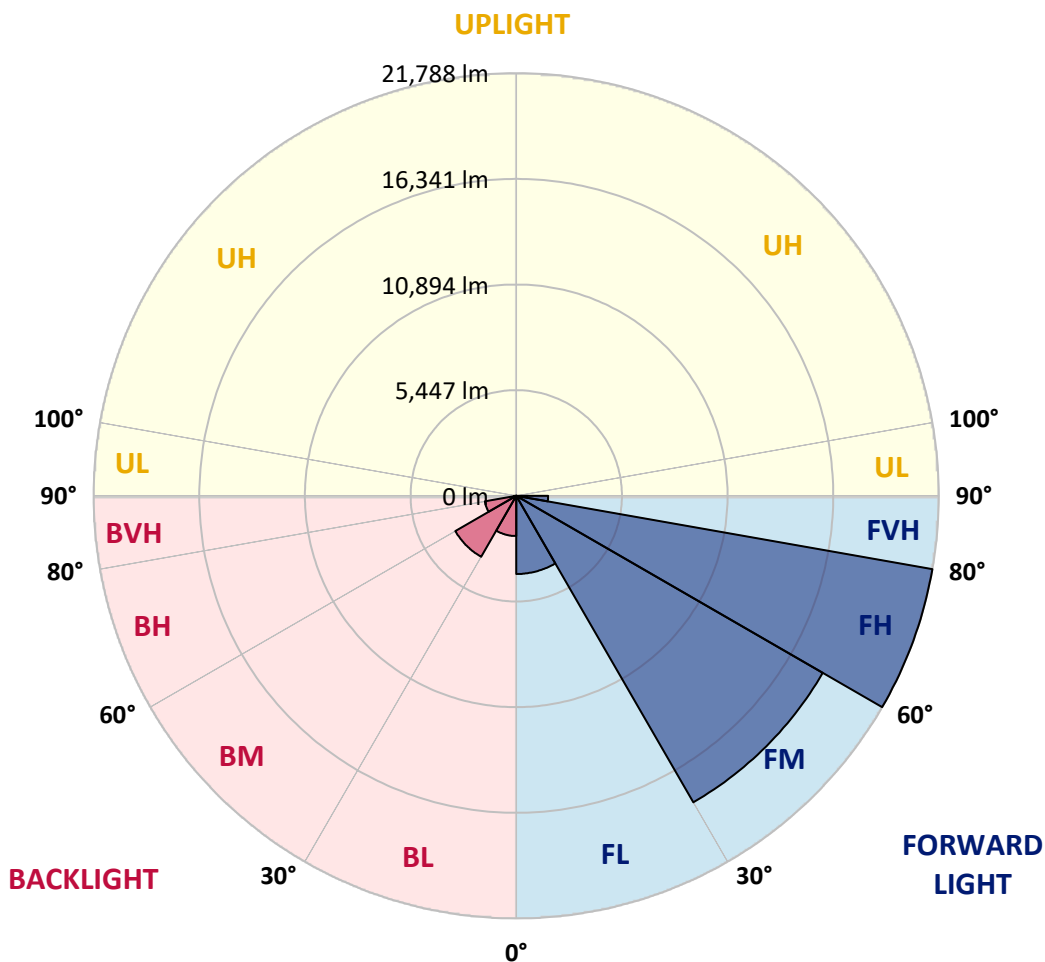


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4030.2	7.6			
FM (30°-60°)	18245.8	34.3			
FH (60°-80°)	21787.7	41.0			G5
FVH (80°-90°)	1644.8	3.1			G5
BL (0°-30°)	2073.3	3.9	B3/2500		
BM (30°-60°)	3628.4	6.8	B3/5000		
BH (60°-80°)	1644.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	130.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2
2.5°	9693.3	9592.2	9610.0	9574.3	9610.0	9598.1	9580.3	9491.0	9580.3	9491.0
5°	9562.4	9562.4	9621.9	9532.7	9544.6	9485.1	9544.6	9479.1	9419.6	9270.9
7.5°	9520.8	9514.8	9520.8	9395.8	9455.3	9419.6	9360.1	9288.7	9169.7	9074.5
10°	9235.2	9294.7	9229.2	9264.9	9312.5	9205.4	9199.5	9181.6	9128.0	9003.1
12.5°	9080.4	9181.6	9217.3	9187.6	9229.2	9241.1	9205.4	9181.6	9116.1	9032.8
15°	9145.9	9026.9	9128.0	9324.4	9282.8	9312.5	9318.5	9294.7	9264.9	9110.2
17.5°	9163.7	9092.3	9306.6	9348.2	9401.8	9508.9	9437.5	9431.5	9318.5	9211.4
20°	9205.4	9175.6	9348.2	9568.4	9574.3	9592.2	9627.9	9538.6	9479.1	9294.7
22.5°	9360.1	9461.3	9621.9	9717.1	9770.7	9782.6	9782.6	9604.1	9538.6	9389.9
25°	9824.3	9717.1	9943.3	10056.3	9979.0	9961.1	9919.5	9758.8	9687.4	9556.5
27.5°	10163.4	10157.5	10288.4	10443.1	10234.8	10276.5	10127.7	10080.1	9919.5	9848.1
30°	10627.6	10758.5	10752.5	10800.1	10526.4	10574.0	10383.6	10294.3	10205.1	10246.7
32.5°	11222.6	11175.0	11252.4	11216.7	10942.9	10984.6	10758.5	10621.6	10651.4	10776.3
35°	11603.4	11555.8	11585.6	11585.6	11502.3	11454.7	11359.5	11181.0	11323.8	11555.8
37.5°	12014.0	12073.5	12246.1	12210.4	12103.3	12103.3	12091.4	11966.4	12150.9	12722.1
40°	12377.0	12537.7	12644.8	12716.2	12841.1	12841.1	12942.3	12870.9	13204.1	14120.5
42.5°	12757.8	12763.8	13346.9	13400.5	13680.2	13799.2	13876.5	13936.0	14560.8	15584.3
45°	13245.8	13275.5	13787.3	14197.9	14632.2	14673.9	14965.5	15161.8	15929.5	17185.0
47.5°	13888.4	13852.7	14400.2	15054.7	15596.2	15881.8	16232.9	16447.1	17393.3	18922.5
50°	14733.4	14626.3	14941.7	15971.1	16607.8	16923.2	17548.0	17905.0	19011.8	20582.7
52.5°	15762.8	15584.3	15834.2	16958.9	17672.9	18309.6	18904.7	19303.4	20457.8	21868.0
55°	16851.8	16482.8	16554.3	18006.2	19035.6	19636.6	20451.8	20868.4	22046.6	23022.4
57.5°	17928.8	17696.7	17553.9	19011.8	20660.1	21237.3	21987.0	22528.5	23528.2	24045.9
60°	18833.3	18773.8	18541.7	20570.8	22379.8	22873.7	23659.1	23992.4	24748.1	24992.0
62.5°	19577.1	19374.8	19743.7	21826.4	24129.2	24688.6	25551.4	25581.1	26116.7	25581.1
65°	20160.2	20172.1	20761.2	23343.8	26152.4	26979.5	27675.7	27598.4	27253.2	25230.1
67.5°	20689.8	20916.0	21778.8	25009.9	28752.7	29532.3	30305.8	29282.3	27562.7	23587.7
70°	21106.4	21332.5	23153.3	27039.0	31817.2	32959.7	33132.3	29948.8	26140.5	19981.7
72.5°	21058.8	21469.4	23932.9	28657.5	34536.6	35524.4	34132.0	28074.4	21778.8	13930.1
73°	21159.9	21362.2	23867.4	29109.8	35363.7	35857.6	33667.9	27485.3	20541.1	12496.0
75°	19208.2	19892.5	22683.3	28371.9	34477.1	34387.9	31002.0	22903.4	14602.5	6563.4
77.5°	14209.8	14644.1	17875.3	23331.9	28300.5	27729.3	23385.4	14638.2	6932.3	2433.7
80°	6944.2	7283.4	9473.2	13471.9	18506.0	18553.6	14513.2	7616.6	2969.3	1374.6
82.5°	3469.1	3671.4	4552.1	5920.7	9104.2	9538.6	7360.8	4332.0	1838.7	779.5
85°	2267.1	2409.9	2802.7	2897.9	3861.9	4076.1	3427.5	3379.9	1196.0	422.5
87.5°	1505.5	1529.3	1719.7	1463.8	1547.1	1487.6	1654.2	2130.3	351.1	178.5
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°
9467.2	0°	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2	9467.2
9467.2	2.5°	9437.5	9354.2	9264.9	9139.9	9050.7	8913.8	8788.9	8735.3	8723.4	8729.4
9229.2	5°	9193.5	9074.5	8896.0	8640.1	8491.3	8265.2	8074.8	7973.7	7866.5	7884.4
8937.6	7.5°	8854.3	8723.4	8449.7	8152.2	7783.2	7461.9	7283.4	7033.5	6890.7	6783.6
8919.8	10°	8747.2	8521.1	8110.5	7699.9	7128.7	6706.2	6295.6	6010.0	5813.6	5623.2
8794.8	12.5°	8693.7	8467.5	7896.3	7289.3	6551.5	5908.8	5331.6	4980.6	4700.9	4534.3
8955.5	15°	8646.1	8366.4	7694.0	6837.1	6010.0	5165.0	4516.4	4052.3	3784.5	3623.8
8985.2	17.5°	8711.5	8312.8	7396.5	6396.8	5414.9	4510.5	3790.5	3308.5	3034.7	2933.6
8949.5	20°	8646.1	8253.3	7104.9	5956.4	4819.9	3885.7	3195.4	2796.7	2606.3	2523.0
9116.1	22.5°	8669.9	8110.5	6801.4	5468.5	4266.5	3362.0	2796.7	2493.3	2344.5	2302.8
9193.5	25°	8782.9	8027.2	6497.9	4933.0	3719.1	2975.2	2540.9	2308.8	2201.7	2160.0
9330.4	27.5°	8866.2	8098.6	6224.2	4427.2	3254.9	2630.1	2326.6	2171.9	2100.5	2070.8
9735.0	30°	9074.5	8140.3	5956.4	3974.9	2874.1	2404.0	2177.9	2052.9	2005.3	1987.5
10288.4	32.5°	9383.9	8217.6	5647.0	3558.4	2594.4	2189.8	2058.9	1951.8	1939.9	1922.0
10907.2	35°	9889.7	8485.4	5301.9	3201.4	2326.6	2047.0	1933.9	1862.5	1862.5	1862.5
11895.0	37.5°	10615.7	8860.3	4992.5	2862.2	2154.1	1922.0	1826.8	1803.0	1791.1	1808.9
13103.0	40°	11549.9	9312.5	4742.5	2594.4	2005.3	1838.7	1755.4	1743.5	1737.5	1731.6
14394.2	42.5°	12573.4	9889.7	4528.3	2386.1	1898.2	1749.4	1689.9	1678.0	1654.2	1666.1
15798.5	45°	13590.9	10603.8	4337.9	2219.5	1826.8	1701.8	1618.5	1612.6	1600.7	1594.7
17333.8	47.5°	14721.5	11305.9	4278.4	2118.4	1773.2	1630.4	1570.9	1565.0	1529.3	1523.3
18387.0	50°	15602.2	11823.6	4343.9	2070.8	1695.9	1576.9	1535.2	1505.5	1475.7	1446.0
19166.5	52.5°	16209.1	12180.6	4391.5	2035.1	1654.2	1505.5	1451.9	1440.0	1410.3	1380.5
19946.0	55°	16756.6	12394.9	4403.4	2041.0	1612.6	1422.2	1386.5	1380.5	1362.7	1315.1
20606.5	57.5°	16941.0	12305.6	4165.3	1987.5	1588.8	1368.6	1321.0	1332.9	1309.1	1267.5
20618.4	60°	16923.2	11686.8	3623.8	1916.1	1535.2	1309.1	1249.6	1285.3	1285.3	1237.7
20011.5	62.5°	15893.7	10258.6	2963.3	1779.2	1475.7	1249.6	1184.1	1237.7	1255.6	1225.8
18577.4	65°	13757.5	8354.5	2475.4	1642.3	1386.5	1184.1	1118.7	1178.2	1207.9	1196.0
15774.7	67.5°	11383.3	6390.8	2058.9	1463.8	1273.4	1094.9	1041.3	1083.0	1100.8	1106.8
11901.0	70°	8045.1	4254.6	1719.7	1267.5	1118.7	999.7	940.2	946.1	940.2	958.0
6944.2	72.5°	4373.6	2451.6	1398.4	1077.0	964.0	868.8	827.1	797.4	797.4	791.4
5873.1	73°	3742.9	2201.7	1332.9	1047.3	922.3	845.0	797.4	773.6	773.6	767.6
2844.3	75°	2100.5	1612.6	1142.5	898.5	797.4	737.9	702.2	666.5	660.5	660.5
1535.2	77.5°	1380.5	1255.6	910.4	720.0	642.7	589.1	577.2	541.5	541.5	541.5
1047.3	80°	1035.4	987.8	702.2	547.4	493.9	452.2	440.3	416.5	410.6	386.8
595.0	82.5°	690.3	779.5	511.7	386.8	333.2	309.4	309.4	303.5	285.6	255.9
482.0	85°	547.4	636.7	368.9	238.0	196.4	166.6	172.6	166.6	160.7	130.9
130.9	87.5°	101.2	255.9	107.1	65.5	47.6	29.8	29.8	17.9	11.9	0.0
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°
9467.2
8669.9
7836.8
6843.1
5706.5
4599.7
3641.7
2909.8
2505.2
2314.7
2171.9
2064.8
1981.5
1928.0
1880.4
1820.8
1743.5
1684.0
1624.5
1547.1
1446.0
1368.6
1303.2
1261.5
1231.8
1219.8
1190.1
1112.7
958.0
791.4
761.7
660.5
535.5
392.7
255.9
125.0
0.0
0.0

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