

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: P575044

Luminaire Tested: **EPH-VN-04-730-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

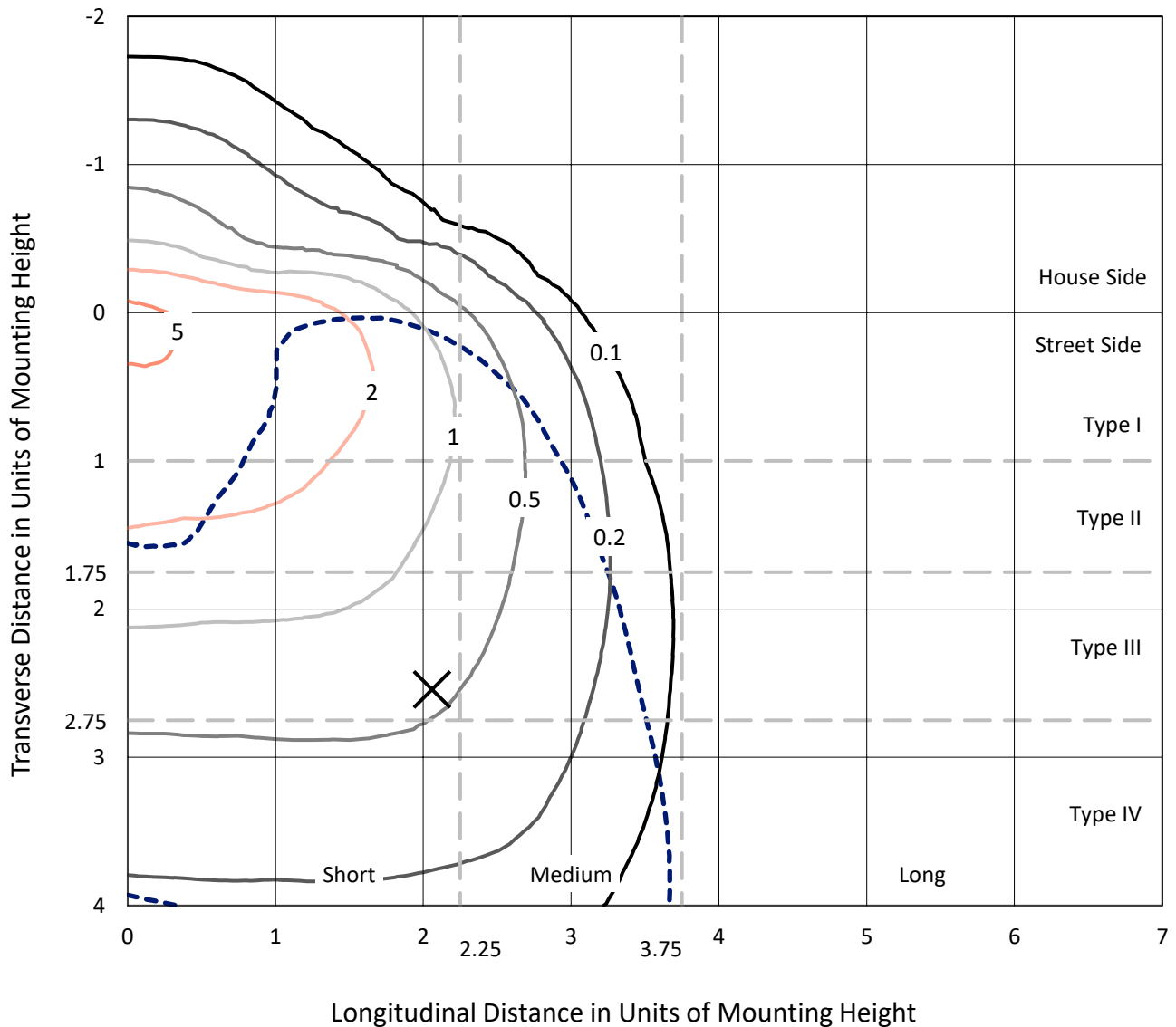
Lumens per Lamp: N/A
Luminaire Lumens: 30805.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
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

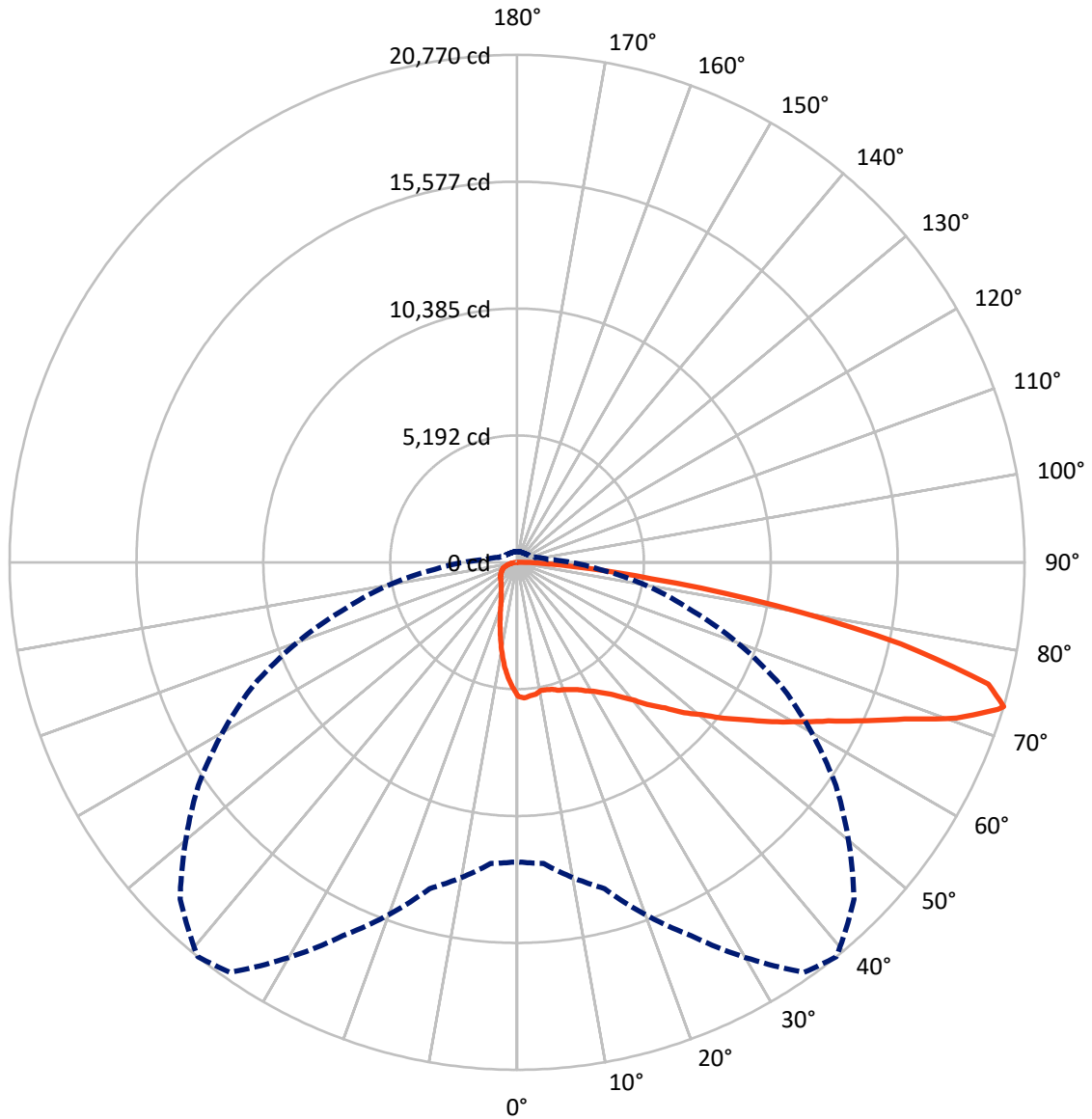
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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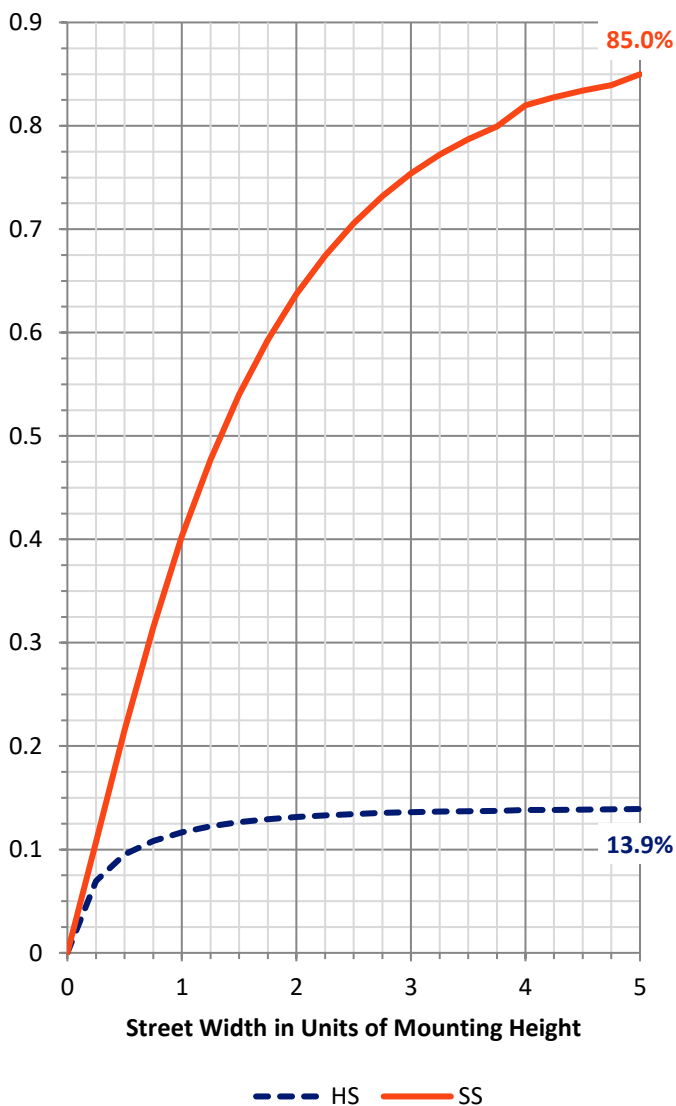
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4330.4	0.0	4330.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26475.4	0.0	26475.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	30805.9	0.0	30805.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.0	1.5
10°-20°	1210.1	3.9
20°-30°	1849.2	6.0
30°-40°	2696.2	8.8
40°-50°	4074.2	13.2
50°-60°	5899.7	19.2
60°-70°	7495.8	24.3
70°-80°	6076.5	19.7
80°-90°	1028.1	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°	30805.9	100.0
0°-180°	30805.9	100.0

Coefficient of Utilization

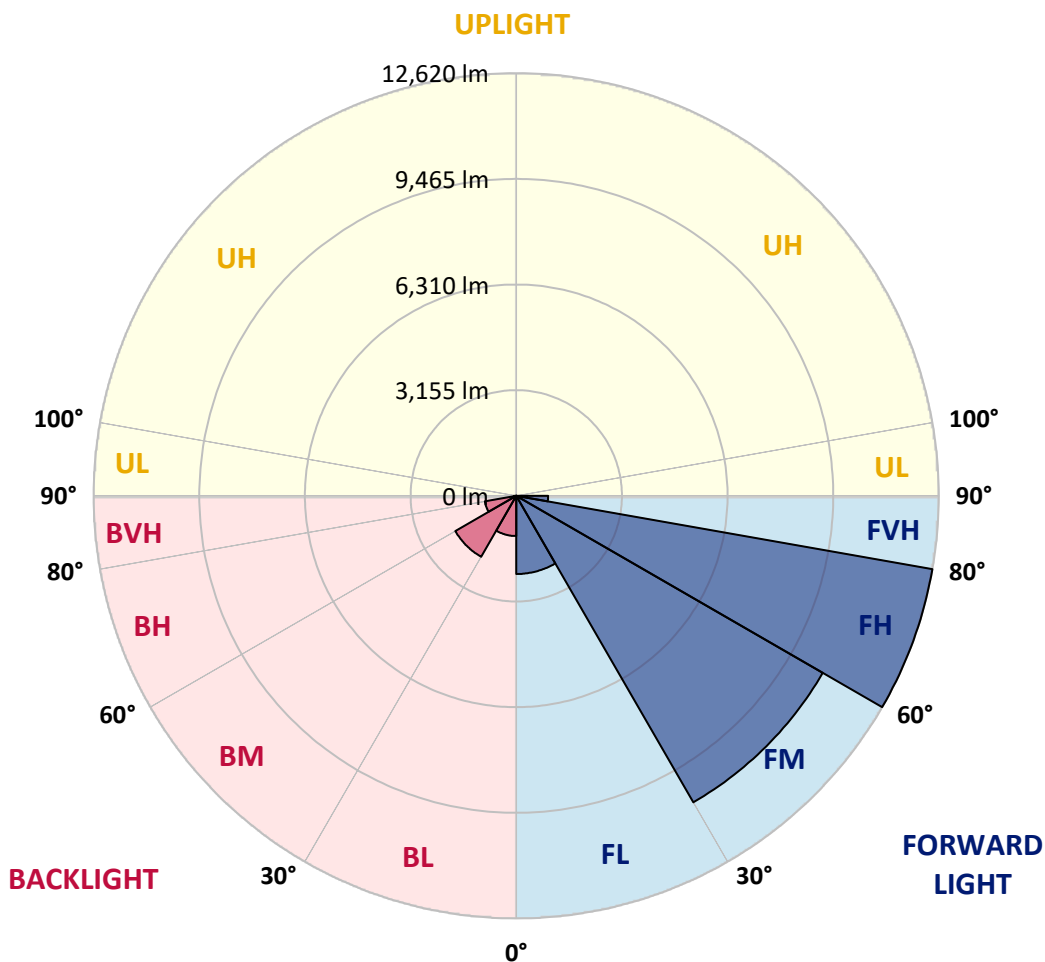


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.4	7.6			
FM (30°-60°)	10568.4	34.3			
FH (60°-80°)	12619.9	41.0			G5
FVH (80°-90°)	952.7	3.1			G5
BL (0°-30°)	1200.9	3.9	B3/2500		
BM (30°-60°)	2101.7	6.8	B2/2500		
BH (60°-80°)	952.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	75.4	0.2			G1/100
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°	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6
2.5°	5614.6	5556.0	5566.4	5545.7	5566.4	5559.5	5549.1	5497.4	5549.1	5497.4
5°	5538.8	5538.8	5573.2	5521.5	5528.4	5494.0	5528.4	5490.5	5456.1	5369.9
7.5°	5514.7	5511.2	5514.7	5442.3	5476.7	5456.1	5421.6	5380.2	5311.3	5256.2
10°	5349.2	5383.7	5345.8	5366.4	5394.0	5332.0	5328.5	5318.2	5287.2	5214.8
12.5°	5259.6	5318.2	5338.9	5321.6	5345.8	5352.7	5332.0	5318.2	5280.3	5232.0
15°	5297.5	5228.6	5287.2	5400.9	5376.8	5394.0	5397.5	5383.7	5366.4	5276.8
17.5°	5307.9	5266.5	5390.6	5414.7	5445.7	5507.8	5466.4	5463.0	5397.5	5335.4
20°	5332.0	5314.7	5414.7	5542.2	5545.7	5556.0	5576.7	5525.0	5490.5	5383.7
22.5°	5421.6	5480.2	5573.2	5628.4	5659.4	5666.3	5666.3	5562.9	5525.0	5438.8
25°	5690.4	5628.4	5759.4	5824.9	5780.0	5769.7	5745.6	5652.5	5611.2	5535.3
27.5°	5886.9	5883.4	5959.3	6048.9	5928.3	5952.4	5866.2	5838.6	5745.6	5704.2
30°	6155.7	6231.6	6228.1	6255.7	6097.1	6124.7	6014.4	5962.7	5911.0	5935.1
32.5°	6500.4	6472.8	6517.6	6496.9	6338.4	6362.5	6231.6	6152.3	6169.5	6241.9
35°	6721.0	6693.4	6710.6	6710.6	6662.4	6634.8	6579.7	6476.3	6559.0	6693.4
37.5°	6958.8	6993.3	7093.2	7072.5	7010.5	7010.5	7003.6	6931.2	7038.1	7369.0
40°	7169.0	7262.1	7324.1	7365.5	7437.9	7437.9	7496.5	7455.1	7648.1	8178.9
42.5°	7389.6	7393.1	7730.9	7761.9	7923.9	7992.8	8037.6	8072.1	8434.0	9026.8
45°	7672.3	7689.5	7985.9	8223.7	8475.3	8499.5	8668.3	8782.1	9226.7	9953.9
47.5°	8044.5	8023.8	8340.9	8720.0	9033.7	9199.1	9402.5	9526.6	10074.6	10960.4
50°	8533.9	8471.9	8654.6	9250.8	9619.6	9802.3	10164.2	10371.0	11012.1	11922.0
52.5°	9130.2	9026.8	9171.6	9823.0	10236.6	10605.4	10950.0	11181.0	11849.6	12666.5
55°	9760.9	9547.2	9588.6	10429.6	11025.9	11374.0	11846.2	12087.4	12769.9	13335.1
57.5°	10384.8	10250.4	10167.6	11012.1	11966.8	12301.1	12735.4	13049.0	13628.1	13927.9
60°	10908.7	10874.2	10739.8	11915.1	12962.9	13249.0	13703.9	13896.9	14334.6	14476.0
62.5°	11339.5	11222.3	11436.0	12642.3	13976.2	14300.2	14799.9	14817.2	15127.4	14817.2
65°	11677.3	11684.2	12025.4	13521.2	15148.1	15627.1	16030.4	15985.6	15785.7	14613.8
67.5°	11984.0	12115.0	12614.8	14486.3	16654.2	17105.8	17553.8	16961.0	15964.9	13662.5
70°	12225.3	12356.3	13410.9	15661.6	18429.3	19091.0	19191.0	17347.0	15141.2	11573.9
72.5°	12197.7	12435.5	13862.5	16599.1	20004.4	20576.5	19770.0	16261.3	12614.8	8068.6
73°	12256.3	12373.5	13824.5	16861.0	20483.5	20769.6	19501.2	15920.1	11897.9	7238.0
75°	11125.8	11522.2	13138.7	16433.7	19969.9	19918.2	17957.1	13266.2	8458.1	3801.7
77.5°	8230.6	8482.2	10353.8	13514.3	16392.3	16061.4	13545.4	8478.8	4015.4	1409.7
80°	4022.2	4218.7	5487.1	7803.2	10719.1	10746.7	8406.4	4411.7	1719.9	796.2
82.5°	2009.4	2126.6	2636.7	3429.4	5273.4	5525.0	4263.5	2509.2	1065.0	451.5
85°	1313.2	1395.9	1623.4	1678.5	2236.9	2361.0	1985.3	1957.7	692.8	244.7
87.5°	872.0	885.8	996.1	847.9	896.1	861.7	958.2	1233.9	203.4	103.4
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°
5483.6	0°	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6	5483.6
5483.6	2.5°	5466.4	5418.1	5366.4	5294.1	5242.4	5163.1	5090.7	5059.7	5052.8	5056.2
5345.8	5°	5325.1	5256.2	5152.8	5004.5	4918.4	4787.4	4677.1	4618.5	4556.5	4566.8
5176.9	7.5°	5128.6	5052.8	4894.3	4721.9	4508.2	4322.1	4218.7	4073.9	3991.2	3929.2
5166.5	10°	5066.6	4935.6	4697.8	4460.0	4129.1	3884.4	3646.6	3481.1	3367.4	3257.1
5094.2	12.5°	5035.6	4904.6	4573.7	4222.2	3794.8	3422.5	3088.2	2884.9	2722.9	2626.4
5187.2	15°	5008.0	4846.0	4456.5	3960.2	3481.1	2991.7	2616.0	2347.2	2192.1	2099.0
5204.5	17.5°	5045.9	4815.0	4284.2	3705.2	3136.5	2612.6	2195.5	1916.3	1757.8	1699.2
5183.8	20°	5008.0	4780.5	4115.3	3450.1	2791.8	2250.7	1850.9	1619.9	1509.6	1461.4
5280.3	22.5°	5021.8	4697.8	3939.5	3167.5	2471.3	1947.4	1619.9	1444.1	1358.0	1333.9
5325.1	25°	5087.3	4649.5	3763.7	2857.3	2154.2	1723.3	1471.7	1337.3	1275.3	1251.1
5404.4	27.5°	5135.5	4690.9	3605.2	2564.3	1885.3	1523.4	1347.6	1258.0	1216.7	1199.4
5638.7	30°	5256.2	4715.0	3450.1	2302.4	1664.7	1392.4	1261.5	1189.1	1161.5	1151.2
5959.3	32.5°	5435.4	4759.8	3270.9	2061.1	1502.7	1268.4	1192.5	1130.5	1123.6	1113.3
6317.7	35°	5728.3	4914.9	3071.0	1854.3	1347.6	1185.7	1120.2	1078.8	1078.8	1078.8
6889.9	37.5°	6148.8	5132.1	2891.7	1657.8	1247.7	1113.3	1058.1	1044.3	1037.4	1047.8
7589.5	40°	6690.0	5394.0	2747.0	1502.7	1161.5	1065.0	1016.8	1009.9	1006.4	1003.0
8337.5	42.5°	7282.8	5728.3	2622.9	1382.1	1099.5	1013.3	978.9	972.0	958.2	965.1
9150.9	45°	7872.2	6141.9	2512.6	1285.6	1058.1	985.7	937.5	934.0	927.2	923.7
10040.1	47.5°	8527.0	6548.6	2478.1	1227.0	1027.1	944.4	909.9	906.5	885.8	882.3
10650.2	50°	9037.1	6848.5	2516.1	1199.4	982.3	913.4	889.2	872.0	854.8	837.5
11101.7	52.5°	9388.7	7055.3	2543.6	1178.8	958.2	872.0	841.0	834.1	816.9	799.6
11553.2	55°	9705.8	7179.4	2550.5	1182.2	934.0	823.8	803.1	799.6	789.3	761.7
11935.8	57.5°	9812.6	7127.7	2412.7	1151.2	920.3	792.7	765.2	772.1	758.3	734.1
11942.7	60°	9802.3	6769.2	2099.0	1109.8	889.2	758.3	723.8	744.5	744.5	716.9
11591.1	62.5°	9206.0	5942.0	1716.4	1030.6	854.8	723.8	685.9	716.9	727.2	710.0
10760.5	65°	7968.7	4839.1	1433.8	951.3	803.1	685.9	648.0	682.4	699.7	692.8
9137.1	67.5°	6593.5	3701.7	1192.5	847.9	737.6	634.2	603.2	627.3	637.6	641.1
6893.3	70°	4659.9	2464.4	996.1	734.1	648.0	579.0	544.6	548.0	544.6	554.9
4022.2	72.5°	2533.3	1420.0	810.0	623.8	558.4	503.2	479.1	461.9	461.9	458.4
3401.9	73°	2167.9	1275.3	772.1	606.6	534.2	489.4	461.9	448.1	448.1	444.6
1647.5	75°	1216.7	934.0	661.8	520.4	461.9	427.4	406.7	386.0	382.6	382.6
889.2	77.5°	799.6	727.2	527.3	417.0	372.2	341.2	334.3	313.6	313.6	313.6
606.6	80°	599.7	572.1	406.7	317.1	286.1	261.9	255.1	241.3	237.8	224.0
344.7	82.5°	399.8	451.5	296.4	224.0	193.0	179.2	179.2	175.8	165.4	148.2
279.2	85°	317.1	368.8	213.7	137.9	113.7	96.5	100.0	96.5	93.1	75.8
75.8	87.5°	58.6	148.2	62.0	37.9	27.6	17.2	17.2	10.3	6.9	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°
5483.6
5021.8
4539.2
3963.7
3305.3
2664.3
2109.4
1685.4
1451.0
1340.7
1258.0
1196.0
1147.7
1116.7
1089.1
1054.7
1009.9
975.4
940.9
896.1
837.5
792.7
754.8
730.7
713.5
706.6
689.3
644.5
554.9
458.4
441.2
382.6
310.2
227.5
148.2
72.4
0.0
0.0

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