

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: P574973

Luminaire Tested: **EPH-VN-07-735-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574973
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

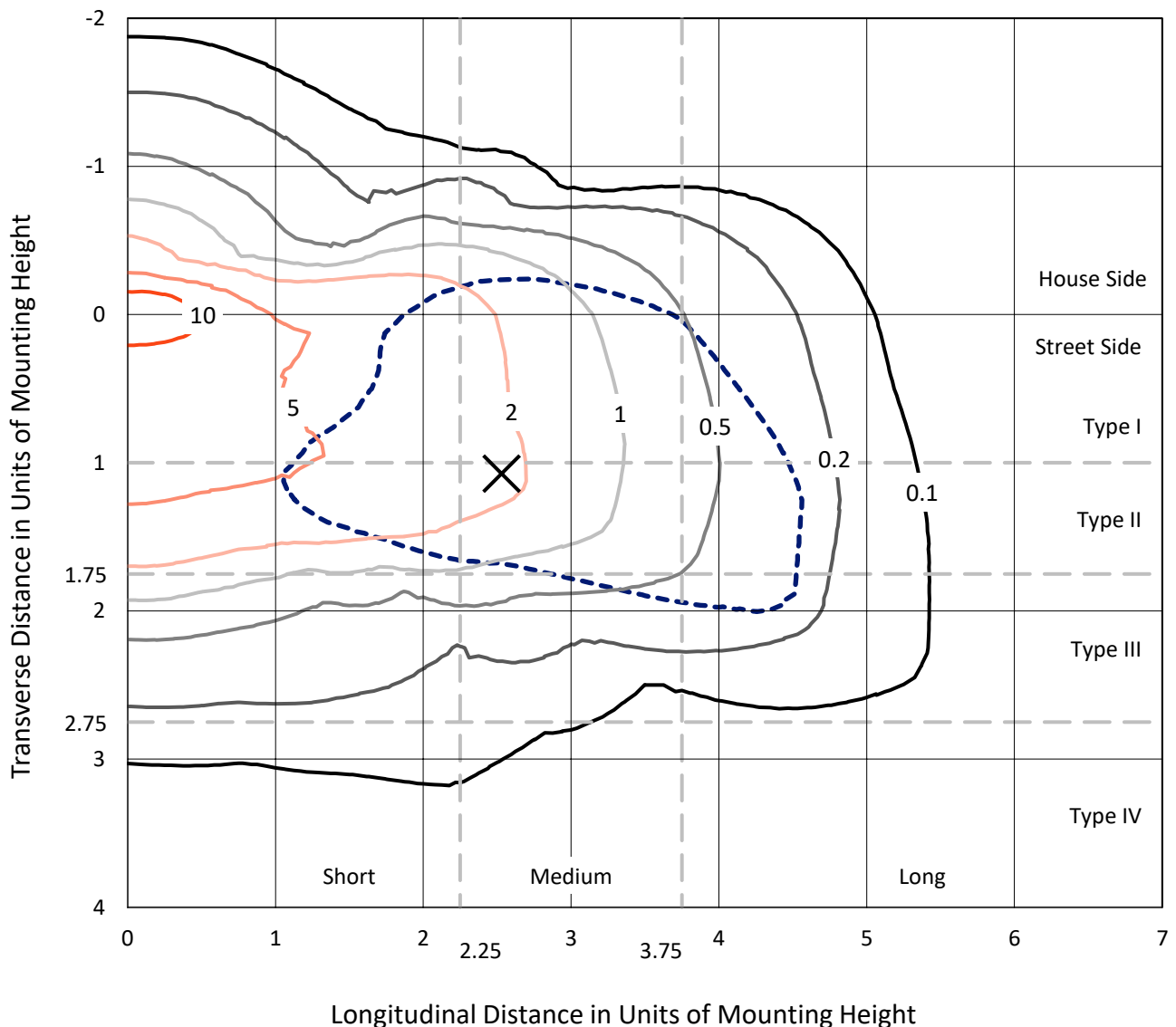
Lumens per Lamp: N/A
Luminaire Lumens: 55514.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

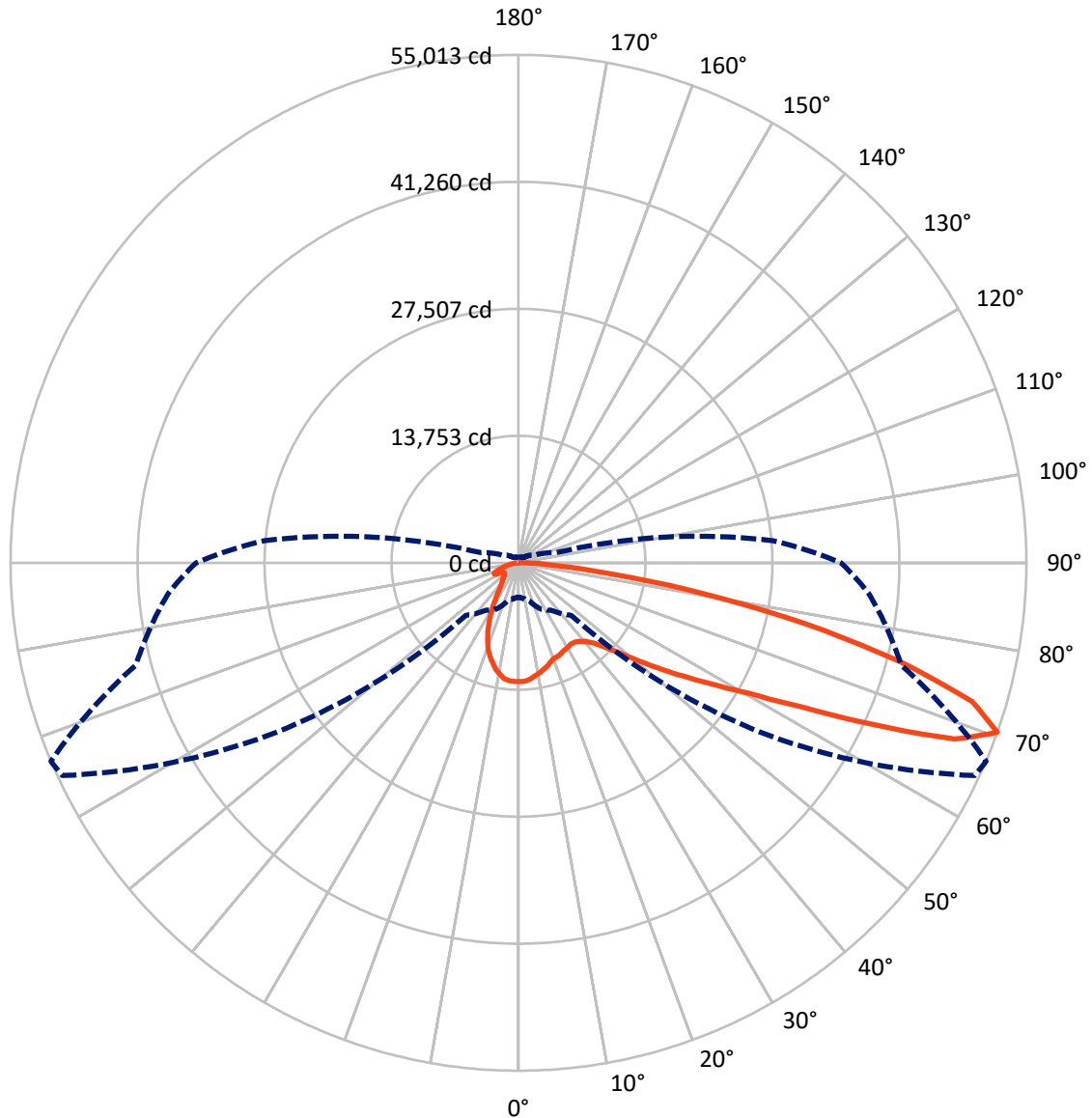
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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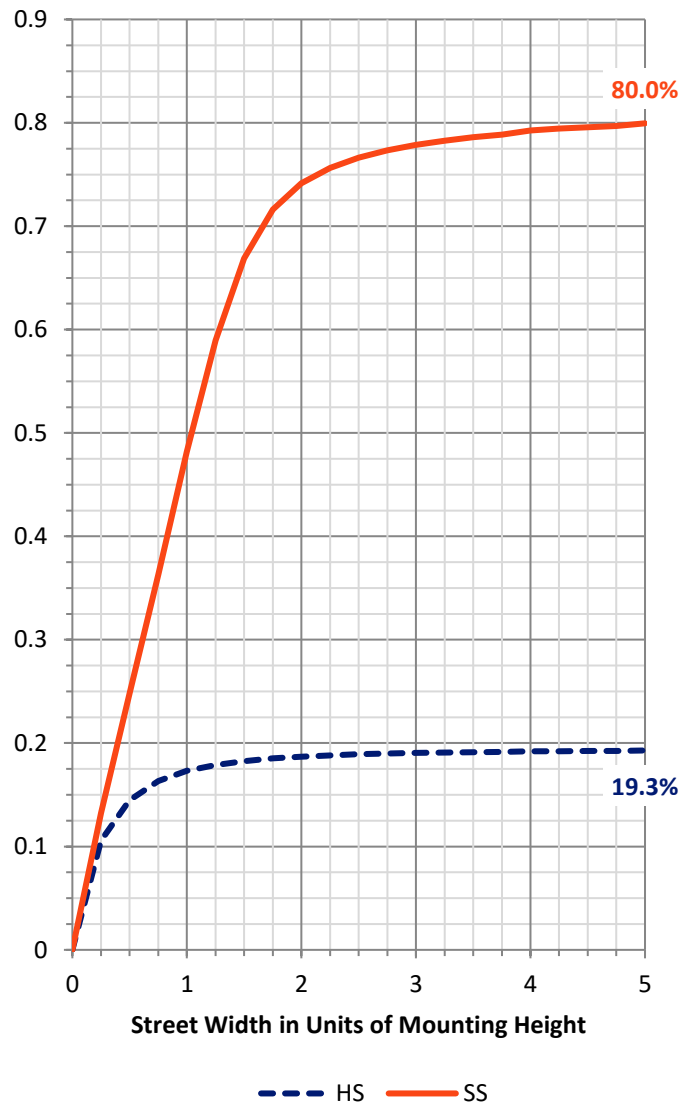
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10811.9	0.0	10811.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	44702.3	0.0	44702.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	55514.2	0.0	55514.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1121.3	2.0
10°-20°	2685.5	4.8
20°-30°	3626.6	6.5
30°-40°	4852.7	8.7
40°-50°	7135.7	12.9
50°-60°	11122.8	20.0
60°-70°	13701.5	24.7
70°-80°	9681.3	17.4
80°-90°	1586.8	2.9
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°	55514.2	100.0
0°-180°	55514.2	100.0

Coefficient of Utilization

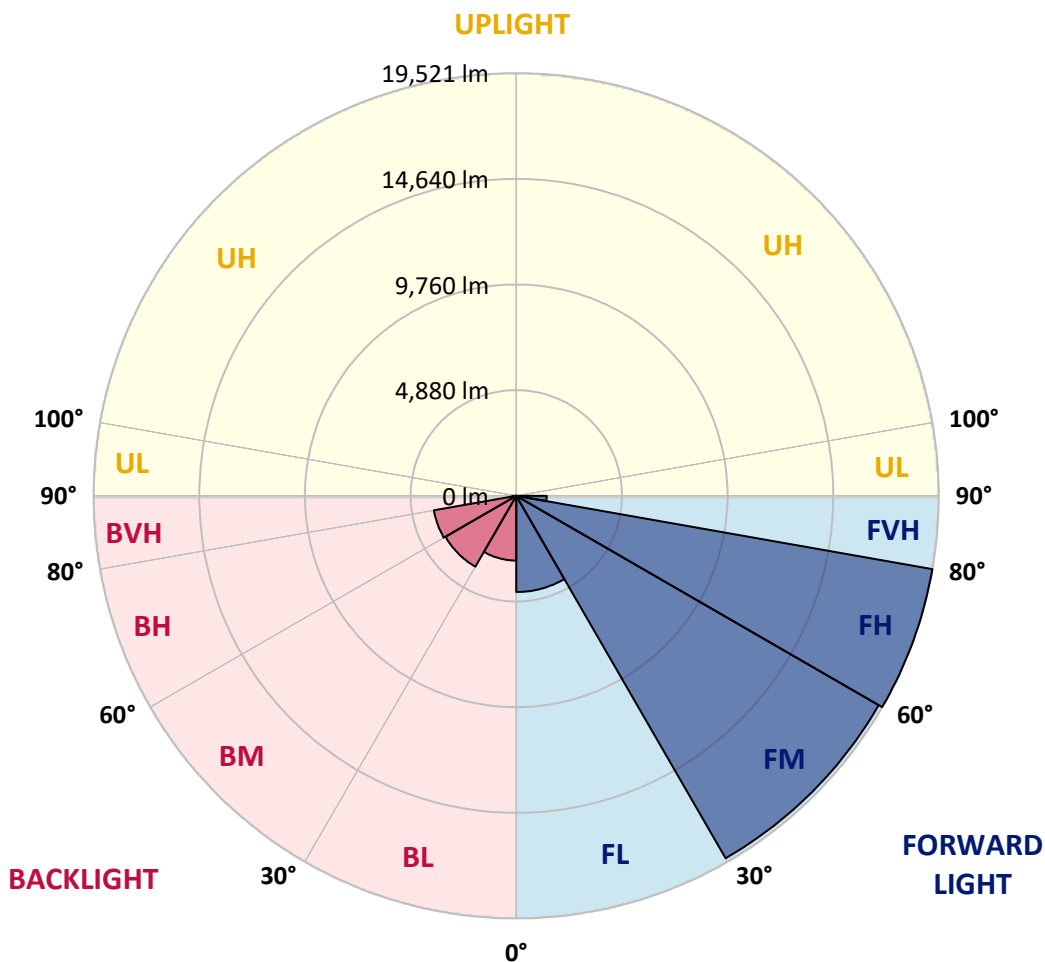


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4443.5	8.0			
FM (30°-60°)	19334.4	34.8			
FH (60°-80°)	19520.6	35.2			G5
FVH (80°-90°)	1403.8	2.5			G5
BL (0°-30°)	2989.9	5.4	B4/5000		
BM (30°-60°)	3776.8	6.8	B3/5000		
BH (60°-80°)	3862.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	183.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4
2.5°	11966.3	12101.6	12150.7	12224.5	12415.0	12556.4	12642.4	12740.7	12857.5	12955.9
5°	11130.5	11204.2	11321.0	11400.9	11640.6	12021.7	12279.8	12697.7	12685.4	12839.1
7.5°	10319.2	10393.0	10448.3	10608.1	10952.2	11296.4	11769.7	12445.7	12396.6	12753.0
10°	9815.2	9759.9	9778.4	10048.8	10319.2	10706.4	11302.6	11990.9	12169.2	12722.3
12.5°	9342.0	9280.5	9428.0	9600.1	9932.0	10282.3	10995.3	11616.0	11886.4	12611.7
15°	9047.0	9003.9	9188.3	9262.1	9655.4	10073.4	10577.3	11333.3	11628.3	12476.5
17.5°	8881.0	8917.9	8985.5	9145.3	9397.3	9753.8	10306.9	11142.8	11271.8	12310.5
20°	8911.8	8954.8	8960.9	9028.5	9200.6	9477.2	10042.6	10940.0	11026.0	12279.8
22.5°	9157.6	9096.1	9120.7	9077.7	9126.9	9342.0	9839.8	10669.5	11001.4	12021.7
25°	9526.4	9440.3	9428.0	9280.5	9188.3	9249.8	9802.9	10601.9	10817.0	11941.8
27.5°	10177.8	10048.8	10048.8	9827.5	9452.6	9354.3	9698.5	10491.3	10681.8	11868.0
30°	10804.7	10804.7	10810.9	10497.4	10079.5	9594.0	9741.5	10448.3	10571.2	11646.7
32.5°	11566.8	11548.4	11517.7	11364.0	10718.7	9993.5	9950.4	10393.0	10454.4	11573.0
35°	12310.5	12261.4	12501.0	12365.8	11708.2	10774.0	10165.6	10417.5	10552.8	11462.4
37.5°	12869.8	12900.5	13398.4	13484.4	12919.0	11659.0	10774.0	10663.4	10792.4	11622.2
40°	13595.0	13718.0	14185.1	14473.9	14129.7	12826.8	11738.9	11075.2	11167.4	11978.6
42.5°	14547.7	14652.2	15248.3	15623.2	15524.9	14314.1	12691.6	11935.6	11861.9	12574.8
45°	15807.6	15826.1	16428.4	16944.6	17147.5	15869.1	14203.5	13023.5	12962.0	13601.2
47.5°	17307.2	17288.8	17663.7	18216.9	18763.9	17725.2	15942.8	14676.7	14455.5	15070.1
50°	18757.7	18677.8	18763.9	19470.7	20521.6	20048.4	18057.1	16698.8	16477.5	16815.6
52.5°	19556.7	19655.0	19421.5	20355.7	22390.0	22795.7	20859.7	19114.2	18923.7	19089.6
55°	18997.4	19200.2	19046.6	19931.6	23207.4	26145.3	24485.8	21910.6	21664.8	21603.3
57.5°	16618.9	16987.7	17018.4	18419.7	22924.7	28738.9	29587.0	25211.1	24842.3	24215.4
60°	12759.2	13127.9	13410.7	15070.1	20503.2	30287.7	35499.5	29906.6	28689.7	27067.2
62.5°	8942.5	9194.5	9477.2	10497.4	15807.6	29378.1	40613.0	36519.8	34276.5	30072.6
65°	6514.8	6711.5	7000.3	7602.7	9710.7	24307.6	42985.4	44374.4	42247.9	33895.4
67.5°	4904.5	5027.5	5408.5	6373.4	6729.9	15014.8	40527.0	52671.6	50950.7	38142.3
70°	3712.2	3816.7	4173.2	5494.6	6287.4	8051.3	31971.7	54521.5	55013.2	42905.5
72.5°	2556.8	2673.5	3073.0	4578.8	5986.2	6385.7	20066.8	49530.9	51393.2	44866.1
75°	1567.2	1647.1	1880.7	3472.5	5943.2	6244.4	11044.4	40588.5	42561.3	41455.0
77.5°	1106.3	1100.1	1143.2	2034.3	5150.4	6281.3	6809.8	29740.7	31658.3	30552.0
80°	805.1	811.3	854.3	1216.9	3497.1	6385.7	5365.5	19919.3	20490.9	15930.5
82.5°	485.5	510.1	614.6	823.6	2101.9	5765.0	4959.9	11069.0	10356.1	5113.5
85°	258.1	258.1	362.6	522.4	1118.6	4302.2	4775.5	5267.2	4412.9	1585.7
87.5°	61.5	61.5	104.5	209.0	448.7	2058.9	3257.4	2095.8	1677.9	534.7
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°
12851.4	0°	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4	12851.4
13017.3	2.5°	12992.7	12919.0	13011.2	12826.8	12679.3	12685.4	12458.0	12445.7	12415.0	12255.2
13072.6	5°	13140.2	13078.8	12974.3	12771.5	12445.7	12120.0	11923.3	11671.3	11566.8	11511.5
13115.7	7.5°	13281.6	13171.0	12869.8	12587.1	12083.1	11468.5	11112.0	10774.0	10343.8	10294.6
13238.6	10°	13318.5	13084.9	12697.7	12095.4	11425.5	10743.3	9932.0	9305.1	8973.2	8715.1
13293.9	12.5°	13263.2	13164.8	12421.1	11646.7	10632.7	9563.2	8616.7	7731.7	7117.1	6797.5
13207.8	15°	13257.0	13084.9	12113.8	10964.5	9667.7	8272.6	6926.6	5863.3	5218.0	4953.7
13189.4	17.5°	13263.2	12851.4	11751.2	10276.2	8530.7	6643.9	5162.7	4289.9	3933.5	3896.6
13238.6	20°	13140.2	12679.3	11370.2	9464.9	7104.8	4990.6	3749.1	3392.6	3392.6	3441.8
13134.1	22.5°	13029.6	12421.1	10767.9	8463.1	5654.4	3613.9	3048.4	2944.0	3060.7	3146.8
13127.9	25°	12876.0	12206.0	10153.3	7424.4	4302.2	2913.2	2648.9	2673.5	2784.2	2937.8
12986.6	27.5°	12654.7	11831.1	9421.9	6219.8	3202.1	2513.7	2446.1	2458.4	2575.2	2642.8
12796.1	30°	12402.7	11450.1	8745.8	5021.3	2538.3	2304.8	2298.6	2329.3	2347.8	2384.7
12740.7	32.5°	12083.1	10946.1	8026.7	3902.7	2286.3	2188.0	2163.4	2145.0	2163.4	2157.3
12568.7	35°	11855.7	10675.7	7295.4	2974.7	2145.0	2083.5	2065.1	2034.3	2009.8	1972.9
12568.7	37.5°	11794.3	10405.2	6527.1	2427.7	2034.3	2003.6	1942.1	1886.8	1856.1	1837.7
12839.1	40°	11757.4	10227.0	5777.3	2132.7	1942.1	1911.4	1837.7	1763.9	1733.2	1714.7
13244.7	42.5°	11886.4	10128.7	5015.2	1985.2	1862.3	1806.9	1727.0	1641.0	1634.8	1622.6
13988.4	45°	12341.2	10251.6	4308.4	1880.7	1782.4	1690.2	1585.7	1542.7	1536.5	1524.2
15223.7	47.5°	13373.8	10558.9	3706.1	1813.1	1696.3	1616.4	1505.8	1444.3	1438.2	1432.0
17079.8	50°	14799.7	11505.4	3202.1	1733.2	1641.0	1530.4	1425.9	1358.3	1346.0	1321.4
19550.6	52.5°	17036.8	13097.2	2900.9	1690.2	1542.7	1450.5	1339.8	1266.1	1235.4	1210.8
22359.3	55°	19556.7	15070.1	2845.6	1616.4	1438.2	1352.1	1253.8	1180.0	1149.3	1118.6
24995.9	57.5°	22426.9	17682.2	3239.0	1567.2	1364.4	1253.8	1143.2	1075.6	1051.0	1020.2
27534.3	60°	25100.4	20288.1	4462.0	1493.5	1296.8	1161.6	1051.0	983.4	952.6	921.9
30656.4	62.5°	28191.9	23514.8	6533.2	1493.5	1235.4	1063.3	952.6	903.5	885.0	854.3
33821.7	65°	31848.8	26852.1	8045.2	1585.7	1216.9	977.2	860.4	811.3	792.8	774.4
36366.1	67.5°	34632.9	28769.6	6920.4	1831.5	1296.8	903.5	768.3	737.5	725.2	706.8
38074.7	70°	34927.9	27601.9	4173.2	1979.0	1376.7	829.7	688.4	657.6	657.6	639.2
36243.2	72.5°	32279.0	24492.0	2808.7	1763.9	1247.6	743.7	608.5	583.9	571.6	559.3
31707.4	75°	27011.8	20773.6	2218.7	1407.4	958.8	614.6	528.6	504.0	485.5	479.4
21517.3	77.5°	18143.1	13502.9	1641.0	1100.1	706.8	497.8	442.5	417.9	399.5	393.3
8487.7	80°	6969.6	5144.2	1057.1	799.0	497.8	393.3	350.3	325.7	313.4	295.0
2335.5	82.5°	2052.8	1665.6	590.0	491.7	319.6	270.4	252.0	233.5	215.1	196.7
866.6	85°	848.2	762.1	362.6	258.1	196.7	159.8	147.5	129.1	110.6	98.3
356.5	87.5°	393.3	325.7	165.9	98.3	67.6	36.9	18.4	6.1	0.0	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°
12851.4
12310.5
11536.1
10208.6
8616.7
6711.5
4953.7
3927.3
3460.2
3183.6
2925.5
2630.5
2378.5
2138.8
1966.7
1825.4
1720.9
1641.0
1536.5
1432.0
1321.4
1210.8
1106.3
1008.0
921.9
848.2
768.3
694.5
626.9
553.1
467.1
374.9
282.7
190.5
86.0
0.0
0.0

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