

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: P574980

Luminaire Tested: **EPH-VN-08-740-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574980
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

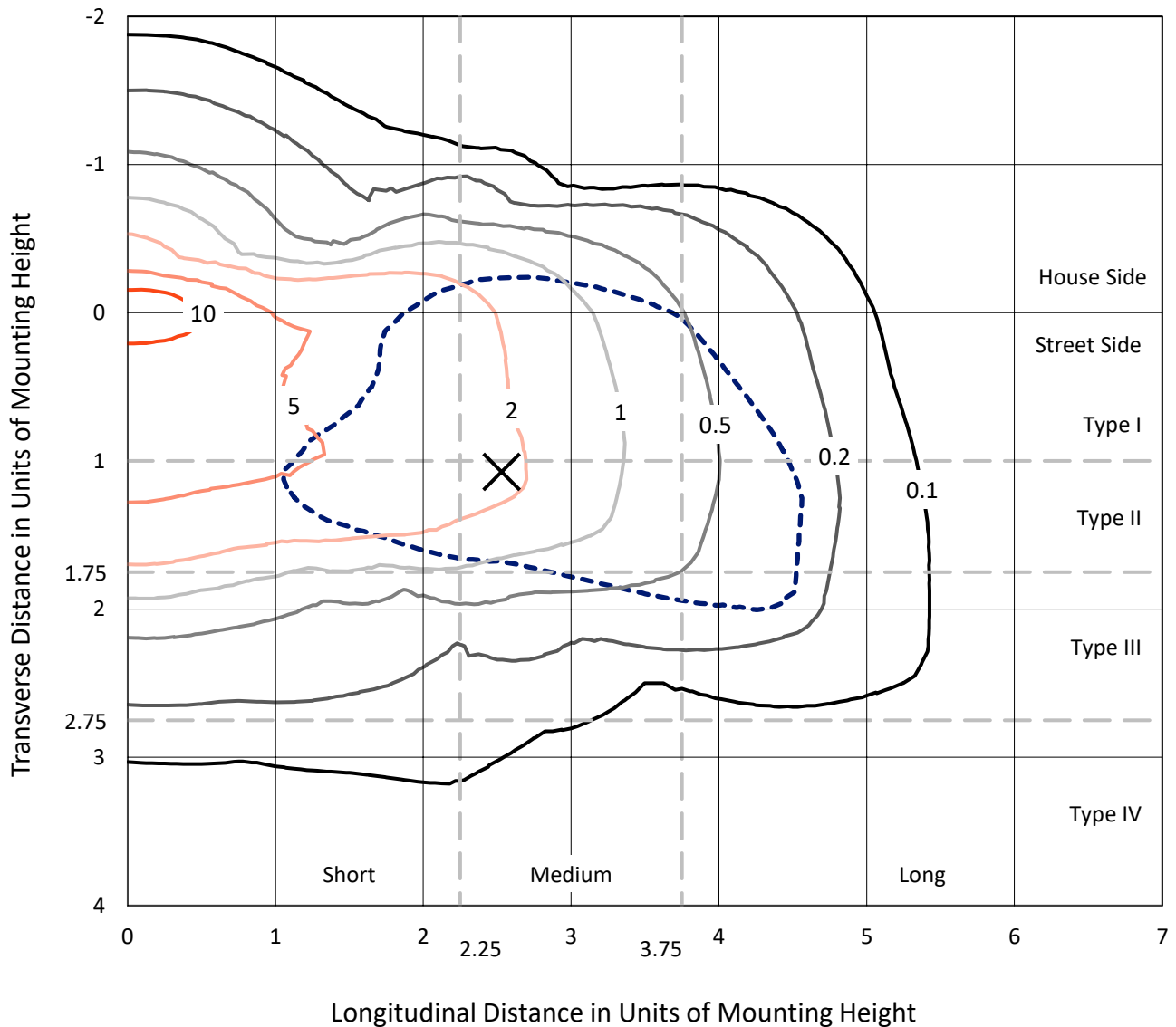
Lumens per Lamp: N/A
Luminaire Lumens: 55583.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

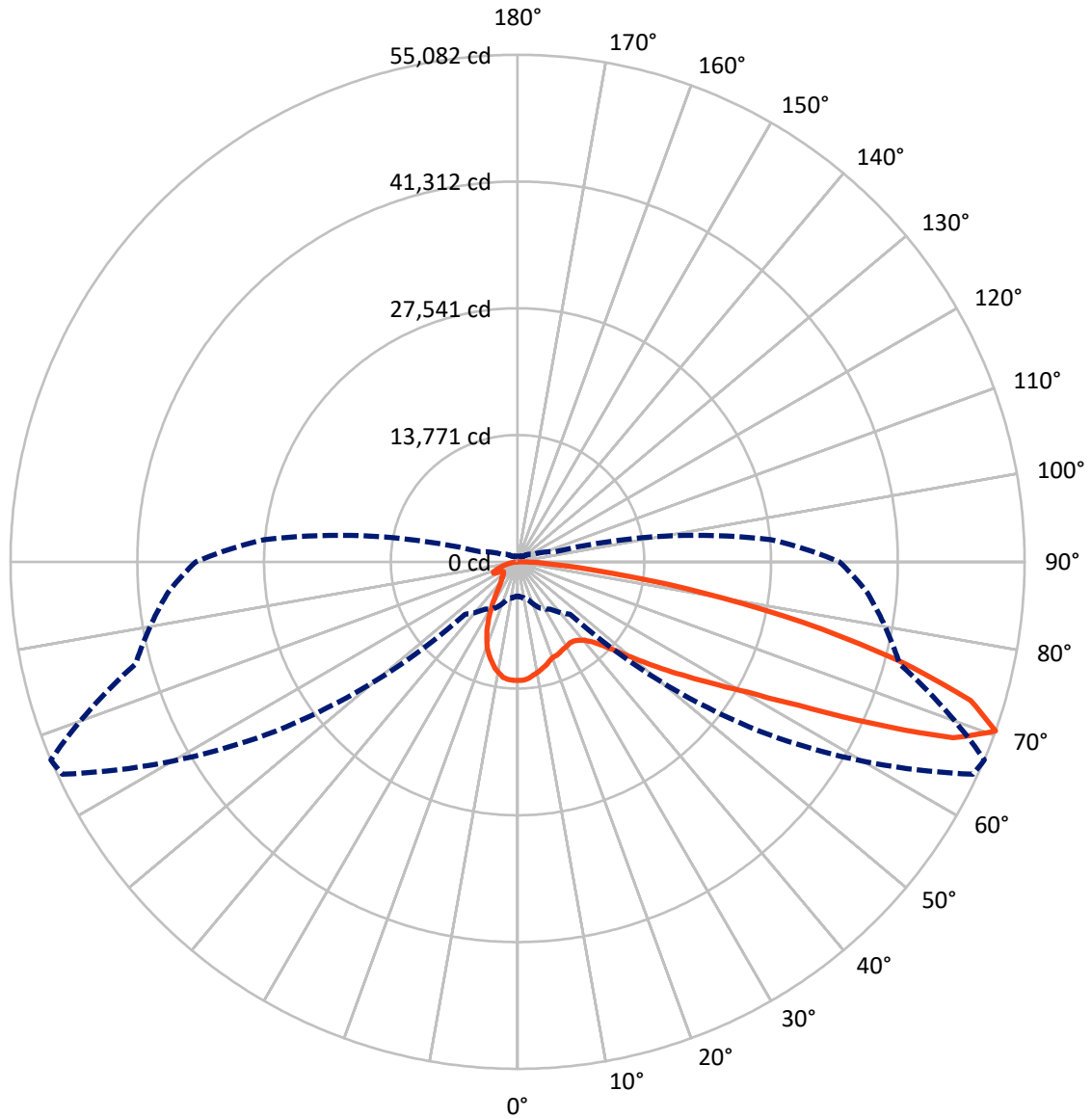
× Max cd
 - - - 1/2 Max cd



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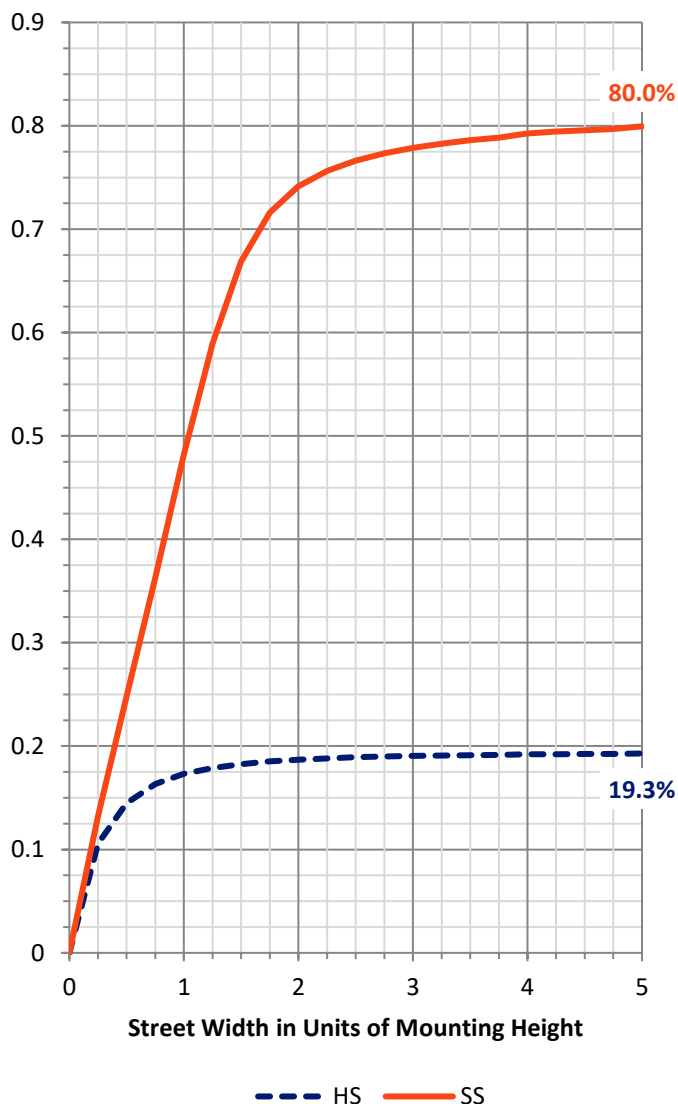
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10825.5	0.0	10825.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	44758.2	0.0	44758.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	55583.6	0.0	55583.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.7	2.0
10°-20°	2688.9	4.8
20°-30°	3631.1	6.5
30°-40°	4858.7	8.7
40°-50°	7144.7	12.9
50°-60°	11136.7	20.0
60°-70°	13718.6	24.7
70°-80°	9693.4	17.4
80°-90°	1588.8	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°	55583.6	100.0
0°-180°	55583.6	100.0

Coefficient of Utilization

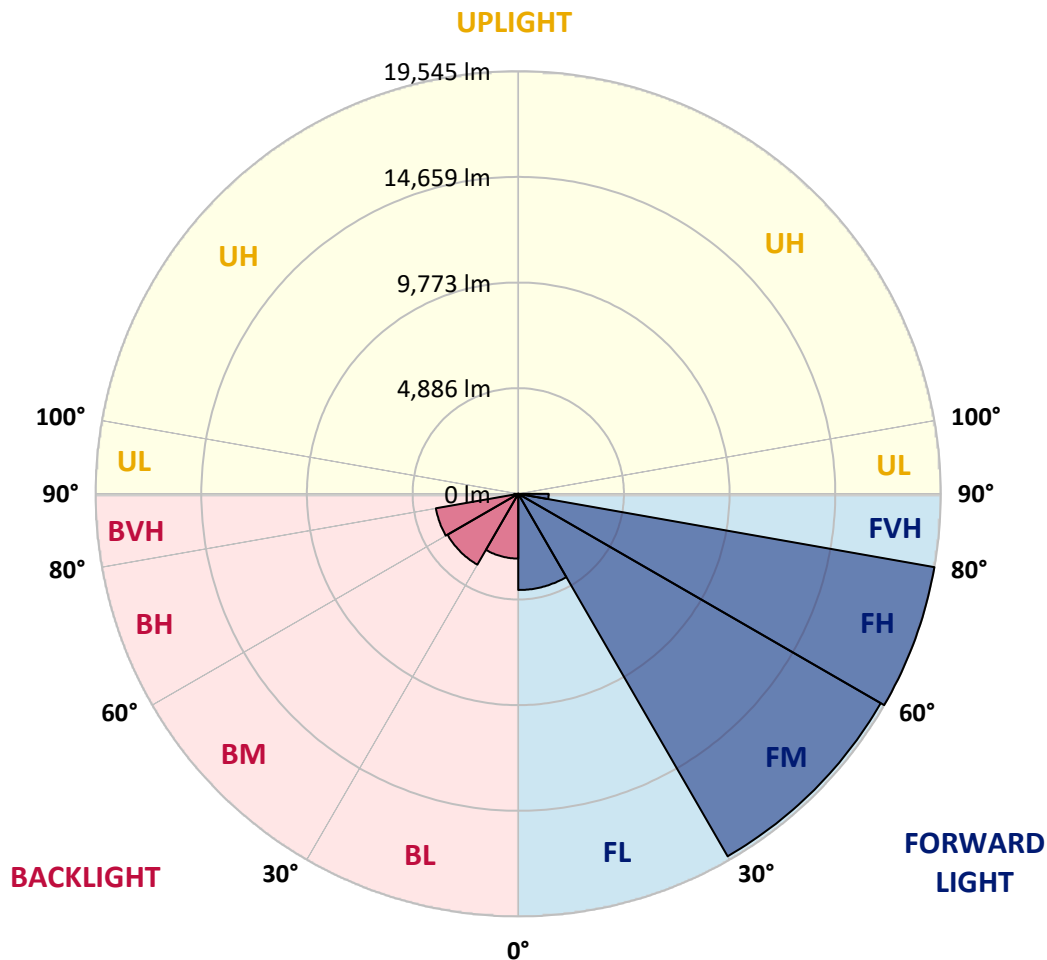


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4449.0	8.0			
FM (30°-60°)	19358.6	34.8			
FH (60°-80°)	19545.1	35.2			G5
FVH (80°-90°)	1405.5	2.5			G5
BL (0°-30°)	2993.6	5.4	B4/5000		
BM (30°-60°)	3781.6	6.8	B3/5000		
BH (60°-80°)	3867.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	183.3	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°	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4
2.5°	11981.3	12116.7	12165.9	12239.8	12430.5	12572.1	12658.2	12756.7	12873.6	12972.0
5°	11144.4	11218.2	11335.2	11415.2	11655.2	12036.7	12295.1	12713.6	12701.3	12855.1
7.5°	10332.1	10405.9	10461.3	10621.3	10965.9	11310.5	11784.4	12461.3	12412.1	12769.0
10°	9827.5	9772.1	9790.6	10061.3	10332.1	10719.8	11316.7	12005.9	12184.4	12738.2
12.5°	9353.7	9292.1	9439.8	9612.1	9944.4	10295.2	11009.0	11630.5	11901.3	12627.4
15°	9058.3	9015.2	9199.8	9273.7	9667.5	10086.0	10590.6	11347.5	11642.8	12492.1
17.5°	8892.1	8929.1	8996.7	9156.7	9409.0	9766.0	10319.8	11156.7	11285.9	12325.9
20°	8922.9	8966.0	8972.1	9039.8	9212.1	9489.0	10055.2	10953.6	11039.8	12295.1
22.5°	9169.0	9107.5	9132.1	9089.0	9138.3	9353.7	9852.1	10682.9	11015.2	12036.7
25°	9538.3	9452.1	9439.8	9292.1	9199.8	9261.4	9815.2	10615.2	10830.6	11956.7
27.5°	10190.6	10061.3	10061.3	9839.8	9464.4	9366.0	9710.6	10504.4	10695.2	11882.8
30°	10818.2	10818.2	10824.4	10510.6	10092.1	9606.0	9753.7	10461.3	10584.4	11661.3
32.5°	11581.3	11562.8	11532.1	11378.2	10732.1	10006.0	9962.9	10405.9	10467.5	11587.5
35°	12325.9	12276.7	12516.7	12381.3	11722.8	10787.5	10178.3	10430.6	10565.9	11476.7
37.5°	12885.9	12916.7	13415.1	13501.3	12935.1	11673.6	10787.5	10676.7	10805.9	11636.7
40°	13612.0	13735.1	14202.8	14492.0	14147.4	12842.8	11753.6	11089.0	11181.3	11993.6
42.5°	14565.9	14670.5	15267.4	15642.8	15544.3	14332.0	12707.4	11950.5	11876.7	12590.5
45°	15827.4	15845.8	16448.9	16965.8	17168.9	15888.9	14221.3	13039.7	12978.2	13618.2
47.5°	17328.9	17310.4	17685.8	18239.6	18787.3	17747.3	15962.8	14695.1	14473.6	15088.9
50°	18781.2	18701.2	18787.3	19495.0	20547.3	20073.4	18079.6	16719.7	16498.1	16836.6
52.5°	19581.1	19679.6	19445.8	20381.1	22418.0	22824.2	20885.7	19138.1	18947.3	19113.5
55°	19021.2	19224.2	19070.4	19956.5	23236.5	26177.9	24516.4	21938.0	21691.9	21630.3
57.5°	16639.7	17008.9	17039.7	18442.7	22953.4	28774.8	29624.0	25242.6	24873.3	24245.7
60°	12775.1	13144.4	13427.4	15088.9	20528.8	30325.5	35543.9	29944.0	28725.6	27101.0
62.5°	8953.7	9206.0	9489.0	10510.6	15827.4	29414.8	40663.8	36565.4	34319.3	30110.2
65°	6522.9	6719.9	7009.1	7612.2	9722.9	24338.0	43039.1	44429.9	42300.7	33937.8
67.5°	4910.7	5033.7	5415.3	6381.4	6738.3	15033.5	40577.6	52737.4	51014.4	38190.0
70°	3716.8	3821.5	4178.4	5501.4	6295.3	8061.4	32011.7	54589.7	55082.0	42959.1
72.5°	2559.9	2676.9	3076.9	4584.5	5993.7	6393.7	20091.9	49592.9	51457.4	44922.2
75°	1569.2	1649.2	1883.0	3476.9	5950.7	6252.2	11058.2	40639.2	42614.5	41506.9
77.5°	1107.7	1101.5	1144.6	2036.9	5156.8	6289.1	6818.3	29777.9	31697.8	30590.2
80°	806.1	812.3	855.4	1218.4	3501.5	6393.7	5372.2	19944.2	20516.5	15950.4
82.5°	486.1	510.8	615.4	824.6	2104.6	5772.2	4966.1	11082.9	10369.0	5119.9
85°	258.5	258.5	363.1	523.1	1120.0	4307.6	4781.4	5273.7	4418.4	1587.7
87.5°	61.5	61.5	104.6	209.2	449.2	2061.5	3261.5	2098.4	1680.0	535.4
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°
12867.4	0°	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4	12867.4
13033.6	2.5°	13009.0	12935.1	13027.4	12842.8	12695.1	12701.3	12473.6	12461.3	12430.5	12270.5
13089.0	5°	13156.7	13095.1	12990.5	12787.4	12461.3	12135.1	11938.2	11685.9	11581.3	11525.9
13132.0	7.5°	13298.2	13187.4	12885.9	12602.8	12098.2	11482.8	11125.9	10787.5	10356.7	10307.5
13255.1	10°	13335.1	13101.3	12713.6	12110.5	11439.8	10756.7	9944.4	9316.7	8984.4	8726.0
13310.5	12.5°	13279.7	13181.3	12436.7	11661.3	10645.9	9575.2	8627.5	7741.4	7126.0	6806.0
13224.4	15°	13273.6	13101.3	12129.0	10978.2	9679.8	8282.9	6935.2	5870.7	5224.5	4959.9
13205.9	17.5°	13279.7	12867.4	11765.9	10289.0	8541.4	6652.2	5169.1	4295.3	3938.4	3901.5
13255.1	20°	13156.7	12695.1	11384.4	9476.7	7113.7	4996.8	3753.8	3396.9	3396.9	3446.1
13150.5	22.5°	13045.9	12436.7	10781.3	8473.7	5661.4	3618.4	3052.2	2947.6	3064.6	3150.7
13144.4	25°	12892.0	12221.3	10166.0	7433.7	4307.6	2916.9	2652.3	2676.9	2787.6	2941.5
13002.8	27.5°	12670.5	11845.9	9433.7	6227.6	3206.1	2516.9	2449.2	2461.5	2578.4	2646.1
12812.1	30°	12418.2	11464.4	8756.7	5027.6	2541.5	2307.6	2301.5	2332.3	2350.7	2387.6
12756.7	32.5°	12098.2	10959.8	8036.8	3907.6	2289.2	2190.7	2166.1	2147.6	2166.1	2160.0
12584.4	35°	11870.5	10689.0	7304.5	2978.4	2147.6	2086.1	2067.7	2036.9	2012.3	1975.3
12584.4	37.5°	11809.0	10418.3	6535.3	2430.7	2036.9	2006.1	1944.6	1889.2	1858.4	1840.0
12855.1	40°	11772.1	10239.8	5784.5	2135.3	1944.6	1913.8	1840.0	1766.1	1735.3	1716.9
13261.3	42.5°	11901.3	10141.3	5021.4	1987.7	1864.6	1809.2	1729.2	1643.0	1636.9	1624.6
14005.9	45°	12356.7	10264.4	4313.8	1883.0	1784.6	1692.3	1587.7	1544.6	1538.4	1526.1
15242.8	47.5°	13390.5	10572.1	3710.7	1815.3	1698.4	1618.4	1507.7	1446.1	1440.0	1433.8
17101.2	50°	14818.2	11519.8	3206.1	1735.3	1643.0	1532.3	1427.7	1360.0	1347.7	1323.1
19575.0	52.5°	17058.1	13113.6	2904.6	1692.3	1544.6	1452.3	1341.5	1267.7	1236.9	1212.3
22387.2	55°	19581.1	15088.9	2849.2	1618.4	1440.0	1353.8	1255.4	1181.5	1150.7	1120.0
25027.2	57.5°	22454.9	17704.3	3243.0	1569.2	1366.1	1255.4	1144.6	1076.9	1052.3	1021.5
27568.7	60°	25131.8	20313.4	4467.6	1495.4	1298.4	1163.1	1052.3	984.6	953.8	923.1
30694.8	62.5°	28227.1	23544.1	6541.4	1495.4	1236.9	1064.6	953.8	904.6	886.1	855.4
33863.9	65°	31888.6	26885.6	8055.2	1587.7	1218.4	978.4	861.5	812.3	793.8	775.4
36411.6	67.5°	34676.2	28805.6	6929.1	1833.8	1298.4	904.6	769.2	738.4	726.1	707.7
38122.3	70°	34971.6	27636.4	4178.4	1981.5	1378.4	830.8	689.2	658.4	658.4	640.0
36288.5	72.5°	32319.4	24522.6	2812.3	1766.1	1249.2	744.6	609.2	584.6	572.3	560.0
31747.1	75°	27045.6	20799.6	2221.5	1409.2	960.0	615.4	529.2	504.6	486.1	480.0
21544.2	77.5°	18165.8	13519.7	1643.0	1101.5	707.7	498.5	443.1	418.5	400.0	393.8
8498.3	80°	6978.3	5150.7	1058.4	800.0	498.5	393.8	350.8	326.1	313.8	295.4
2338.4	82.5°	2055.3	1667.7	590.8	492.3	320.0	270.8	252.3	233.8	215.4	196.9
867.7	85°	849.2	763.1	363.1	258.5	196.9	160.0	147.7	129.2	110.8	98.5
356.9	87.5°	393.8	326.1	166.2	98.5	67.7	36.9	18.5	6.2	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°
12867.4
12325.9
11550.5
10221.3
8627.5
6719.9
4959.9
3932.2
3464.5
3187.6
2929.2
2633.8
2381.5
2141.5
1969.2
1827.7
1723.0
1643.0
1538.4
1433.8
1323.1
1212.3
1107.7
1009.2
923.1
849.2
769.2
695.4
627.7
553.8
467.7
375.4
283.1
190.8
86.2
0.0
0.0

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