

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: P575024

Luminaire Tested: **EPH-VN-06-750-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

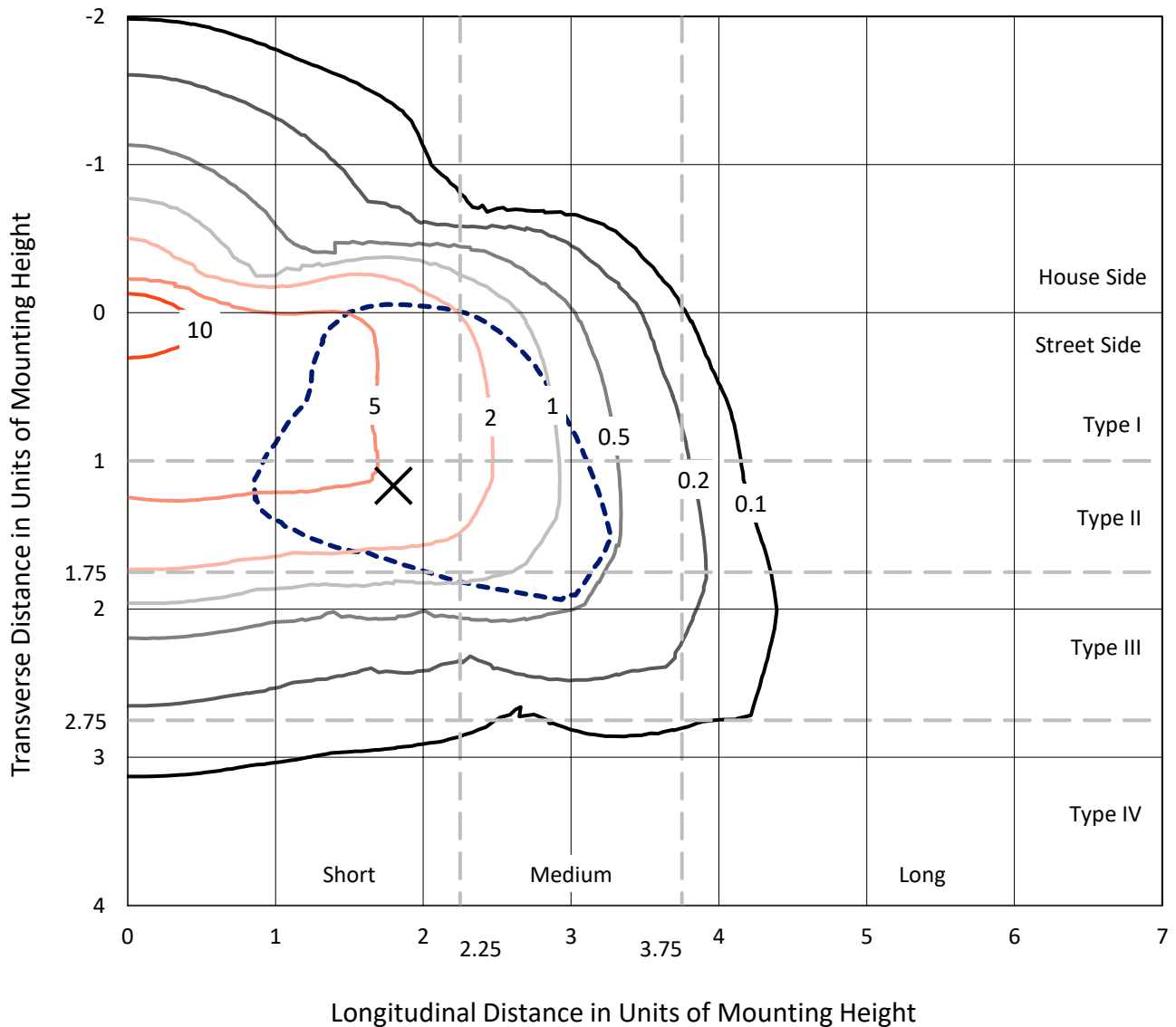
Lumens per Lamp: N/A
Luminaire Lumens: 53406.2 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

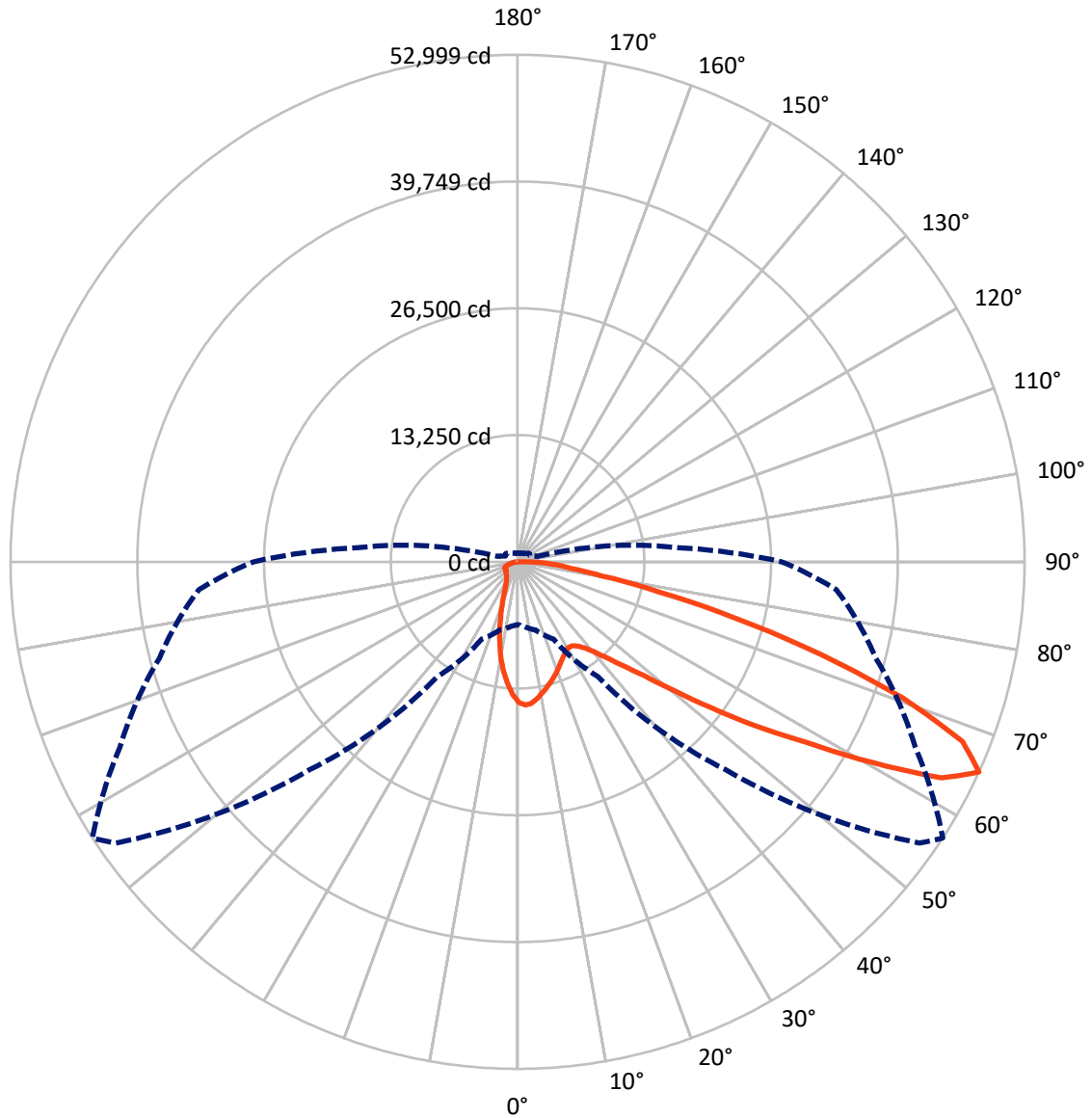
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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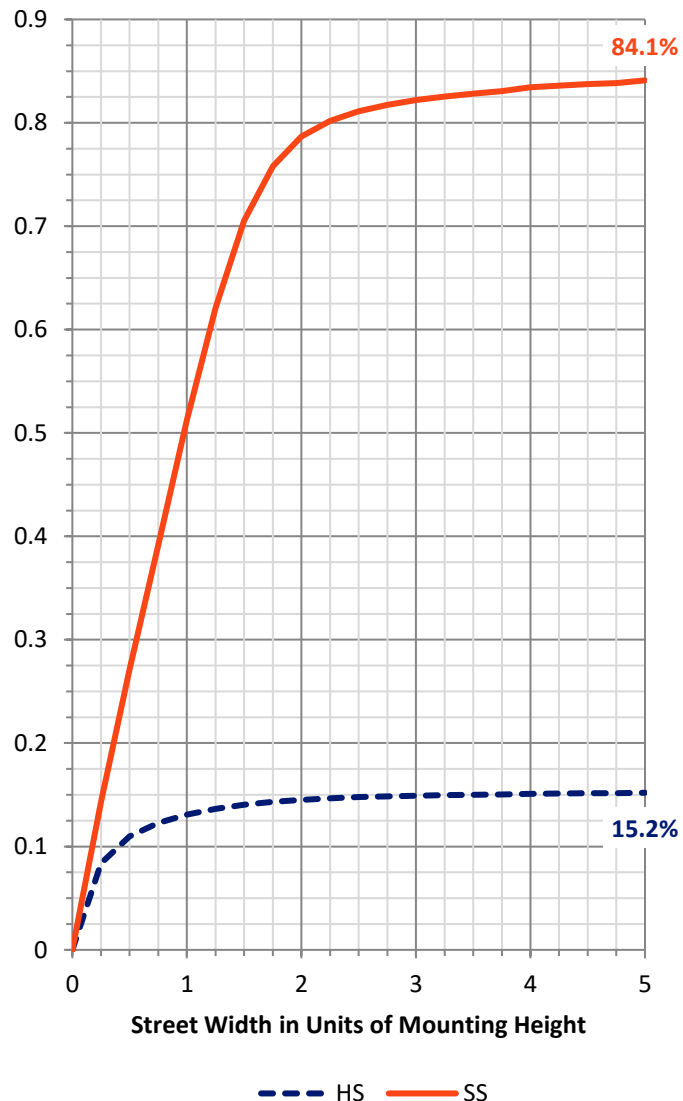
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8190.4	0.0	8190.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	45215.9	0.0	45215.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	53406.2	0.0	53406.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.8	2.3
10°-20°	2646.8	5.0
20°-30°	3422.1	6.4
30°-40°	4605.0	8.6
40°-50°	7342.9	13.7
50°-60°	12969.3	24.3
60°-70°	14267.9	26.7
70°-80°	5968.5	11.2
80°-90°	953.9	1.8
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°	53406.2	100.0
0°-180°	53406.2	100.0

Coefficient of Utilization



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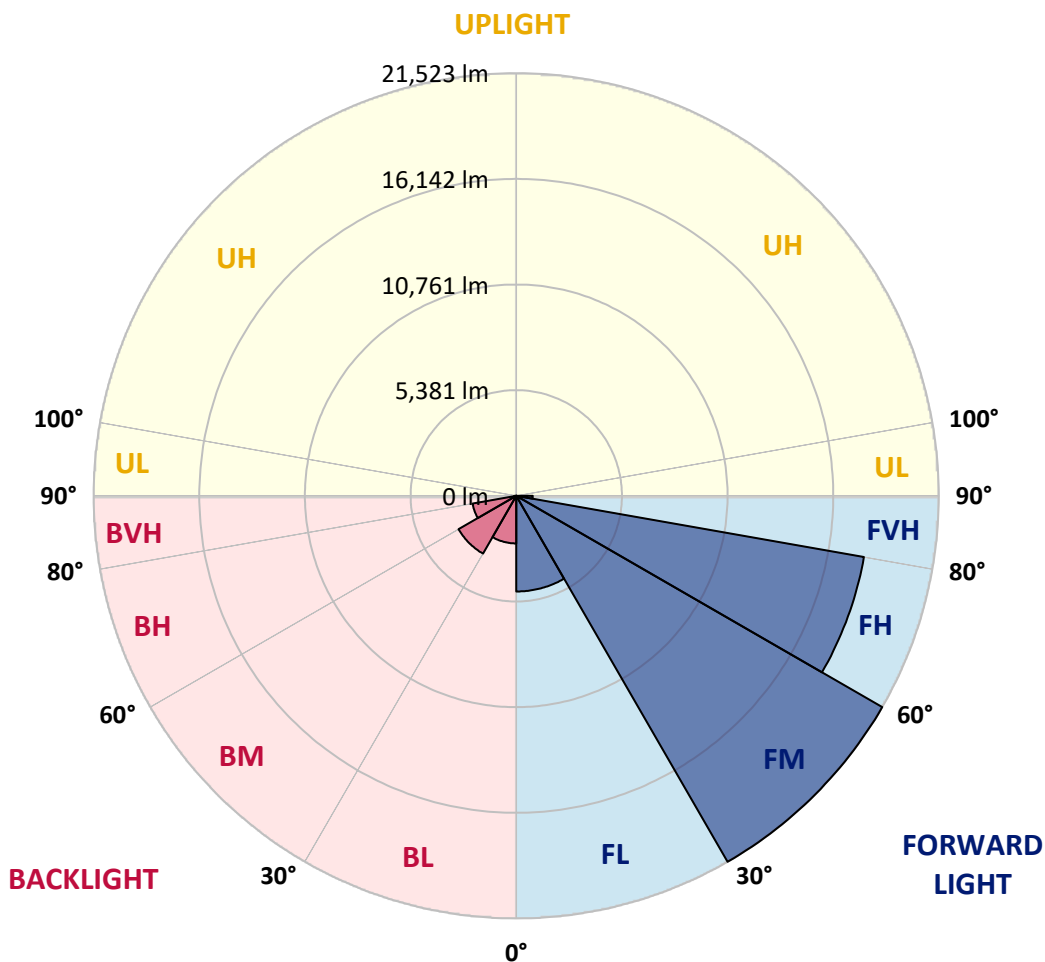
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4873.1	9.1			
FM (30°-60°)	21522.6	40.3			
FH (60°-80°)	17978.1	33.7			G5
FVH (80°-90°)	842.0	1.6			G5
BL (0°-30°)	2425.6	4.5	B3/2500		
BM (30°-60°)	3394.5	6.4	B3/5000		
BH (60°-80°)	2258.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	111.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0
2.5°	15082.5	15106.6	15106.6	15154.7	14992.4	15070.5	15058.5	14986.4	15010.4	14884.3
5°	14655.9	14637.9	14734.0	14746.0	14872.2	14908.3	14938.3	14890.3	14902.3	14625.9
7.5°	13562.3	13556.3	13718.5	13856.7	14121.1	14367.5	14529.7	14481.6	14547.7	14373.5
10°	12264.3	12402.5	12570.8	12709.0	13195.7	13508.2	13928.8	13970.9	14223.3	14181.2
12.5°	11290.9	11351.0	11477.2	11873.8	12318.4	12835.2	13436.1	13490.2	13736.5	13856.7
15°	10491.7	10545.8	10708.0	11002.4	11501.2	12114.1	12877.3	13015.5	13508.2	13550.3
17.5°	9908.8	9950.9	10059.0	10353.5	10762.1	11549.3	12270.3	12516.7	13165.7	13370.0
20°	9680.5	9590.3	9650.4	9836.7	10245.3	10852.2	11783.6	11999.9	12829.2	13231.8
22.5°	9578.3	9500.2	9536.3	9524.2	9848.7	10281.4	11260.8	11489.2	12510.7	13069.5
25°	9656.4	9656.4	9620.4	9590.3	9626.4	9908.8	10696.0	11050.5	12084.1	12931.3
27.5°	10077.1	9914.8	9932.8	9806.7	9770.6	9770.6	10443.6	10653.9	11945.9	12853.2
30°	10347.5	10425.6	10431.6	10245.3	10059.0	9722.5	10209.3	10413.6	11831.7	12949.4
32.5°	11038.5	11002.4	10900.3	10864.2	10587.8	10209.3	10323.4	10461.6	11765.6	13165.7
35°	11729.5	11711.5	11717.5	11699.5	11411.1	10852.2	10629.9	10816.2	11885.8	13544.2
37.5°	12444.6	12492.7	12697.0	12697.0	12390.5	11783.6	11489.2	11435.1	12324.4	14163.2
40°	13159.7	13279.9	13538.2	13946.8	13514.2	12949.4	12474.6	12390.5	12853.2	14992.4
42.5°	13844.7	14043.0	14553.8	15160.7	15016.4	14451.6	13820.7	13724.5	13940.8	16224.3
45°	14722.0	14890.3	15695.5	16626.9	16825.2	16326.4	15587.3	15509.2	15497.2	18026.9
47.5°	16056.0	16236.3	17041.5	17978.9	18591.8	18669.9	17840.7	17756.5	17468.1	20460.6
50°	17726.5	18020.9	18700.0	19793.6	20682.9	21518.2	21283.8	21037.4	20472.6	23290.8
52.5°	18946.3	19306.9	20226.2	21626.3	23194.7	24522.7	25363.9	25363.9	24066.0	26397.5
55°	19270.8	19487.1	20646.9	22671.9	25357.9	28716.9	30477.6	30345.4	28344.4	29666.3
57.5°	17978.9	18261.3	19667.4	21788.6	26493.6	32640.8	35555.2	35585.2	33019.4	33464.0
60°	14421.6	14511.7	16170.2	19006.4	25400.0	35801.5	42489.5	42603.7	38337.3	36847.1
62.5°	9968.9	10257.3	11507.2	13994.9	21043.5	35447.0	49177.5	49742.4	42597.7	38631.8
65°	6561.8	6736.1	7403.1	8917.3	14649.9	30723.9	51256.6	52999.2	45854.5	38733.9
67.5°	4759.1	4789.2	4987.5	5768.6	8803.2	22095.0	47705.3	50163.0	47074.4	37880.6
70°	3845.7	3869.8	3941.9	4440.6	5684.5	13826.7	38908.2	42759.9	43414.9	33836.6
72.5°	3124.7	3154.7	3244.9	3713.6	4687.0	7691.5	28452.5	33145.6	35314.8	25033.4
75°	2457.7	2481.7	2698.0	3160.7	4404.6	5281.9	18874.2	23471.1	23765.5	14631.9
77.5°	1682.5	1724.6	1989.0	2680.0	4146.2	4620.9	11765.6	15034.5	13490.2	5726.6
80°	1069.6	1129.7	1285.9	2031.0	3665.5	4410.6	7318.9	8977.4	5906.8	1958.9
82.5°	630.9	691.0	847.3	1316.0	2878.3	4092.1	5155.7	5618.4	2770.1	1003.5
85°	348.5	390.6	510.8	793.2	1688.5	3635.4	4128.2	4032.0	1586.4	534.8
87.5°	114.2	132.2	186.3	318.5	697.0	1712.6	2475.7	2325.5	823.2	246.4
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°
14686.0	0°	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0	14686.0
14758.1	2.5°	14673.9	14655.9	14385.5	14181.2	13832.7	13544.2	13430.1	13273.8	13267.8	13153.7
14505.7	5°	14319.4	14133.1	13718.5	13321.9	12703.0	12288.4	11909.8	11645.4	11537.2	11302.9
14091.1	7.5°	13862.7	13616.4	12979.4	12234.3	11507.2	10858.2	10269.4	9680.5	9350.0	9235.8
13670.4	10°	13388.0	12955.4	12012.0	11176.7	10161.2	9163.7	8238.3	7409.1	6958.4	6639.9
13412.1	12.5°	13009.4	12432.6	11230.8	9980.9	8640.9	7306.9	6231.3	5360.0	4849.2	4608.9
13075.5	15°	12582.8	11819.7	10377.5	8797.2	7126.7	5612.4	4560.8	3875.8	3671.5	3557.3
12727.0	17.5°	12132.1	11248.8	9452.1	7631.4	5648.4	4224.3	3545.3	3268.9	3178.8	3130.7
12396.5	20°	11711.5	10738.1	8502.7	6333.5	4422.6	3389.1	3070.6	2926.4	2920.4	2944.4
12102.1	22.5°	11116.6	10071.1	7565.3	5131.7	3533.3	2950.4	2746.1	2710.1	2746.1	2776.2
11801.6	25°	10780.1	9524.2	6519.7	4074.1	2920.4	2619.9	2553.8	2541.8	2595.9	2631.9
11555.3	27.5°	10431.6	8959.4	5546.3	3262.9	2559.8	2385.6	2373.5	2385.6	2439.6	2493.7
11411.1	30°	10161.2	8508.7	4632.9	2728.1	2283.4	2217.3	2205.3	2217.3	2247.4	2253.4
11453.1	32.5°	9938.9	7973.9	3857.8	2367.5	2115.2	2061.1	2073.1	2067.1	2073.1	2079.1
11597.3	35°	9806.7	7655.4	3220.8	2145.2	1977.0	1934.9	1928.9	1910.9	1916.9	1922.9
11939.8	37.5°	10089.1	7499.2	2716.1	1989.0	1880.8	1844.8	1832.7	1820.7	1802.7	1802.7
12763.1	40°	10515.7	7415.1	2409.6	1886.8	1808.7	1766.6	1730.6	1718.6	1718.6	1724.6
13910.8	42.5°	11363.0	7553.3	2199.3	1808.7	1718.6	1670.5	1634.4	1640.5	1658.5	1676.5
15491.2	45°	12588.8	7973.9	2103.1	1748.6	1664.5	1598.4	1574.4	1568.3	1586.4	1616.4
17804.6	47.5°	14193.2	8628.9	2067.1	1694.5	1628.4	1538.3	1508.3	1526.3	1550.3	1592.4
20737.0	50°	16819.1	10101.1	2097.1	1646.5	1574.4	1508.3	1472.2	1454.2	1472.2	1502.2
24264.3	52.5°	20250.3	12775.1	2211.3	1622.4	1538.3	1484.2	1424.1	1394.1	1412.1	1436.1
28368.4	55°	24354.4	16428.6	2529.8	1592.4	1478.2	1448.2	1382.1	1322.0	1334.0	1334.0
32418.5	57.5°	27971.8	19186.7	2908.3	1550.3	1442.2	1400.1	1316.0	1243.9	1231.8	1237.9
34479.5	60°	29594.2	19919.8	3088.6	1538.3	1442.2	1340.0	1225.8	1153.7	1135.7	1123.7
34804.0	62.5°	29311.8	18651.9	2722.1	1484.2	1478.2	1291.9	1141.7	1063.6	1039.6	1015.5
33446.0	65°	27605.3	16843.2	2145.2	1412.1	1484.2	1261.9	1057.6	979.5	937.4	907.4
30261.2	67.5°	24486.6	14379.5	1700.5	1358.0	1424.1	1207.8	985.5	895.3	859.3	829.2
24372.4	70°	19156.6	11272.9	1478.2	1285.9	1279.9	1075.6	901.3	823.2	769.1	733.1
16200.2	72.5°	12420.6	7126.7	1267.9	1141.7	1105.7	901.3	781.2	733.1	691.0	661.0
7583.3	75°	5624.4	3310.9	1021.5	955.4	901.3	721.1	661.0	637.0	600.9	570.9
2607.9	77.5°	2019.0	1412.1	763.1	751.1	673.0	558.8	534.8	516.8	492.7	462.7
1255.9	80°	1129.7	895.3	570.9	546.8	468.7	414.6	384.6	384.6	372.6	354.5
757.1	82.5°	715.1	582.9	420.6	366.5	306.5	276.4	264.4	258.4	252.4	228.3
474.7	85°	450.7	396.6	276.4	216.3	180.3	138.2	132.2	126.2	114.2	102.2
186.3	87.5°	204.3	228.3	108.2	66.1	48.1	30.0	18.0	6.0	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°
14686.0
13123.6
11248.8
9109.6
6501.7
4500.7
3539.3
3106.6
2938.4
2788.2
2625.9
2487.7
2253.4
2085.1
1916.9
1802.7
1730.6
1664.5
1640.5
1574.4
1514.3
1436.1
1328.0
1243.9
1123.7
1021.5
901.3
817.2
733.1
661.0
570.9
462.7
348.5
222.3
102.2
0.0
0.0

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