

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: P575026

Luminaire Tested: **EPH-VN-08-750-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575026
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

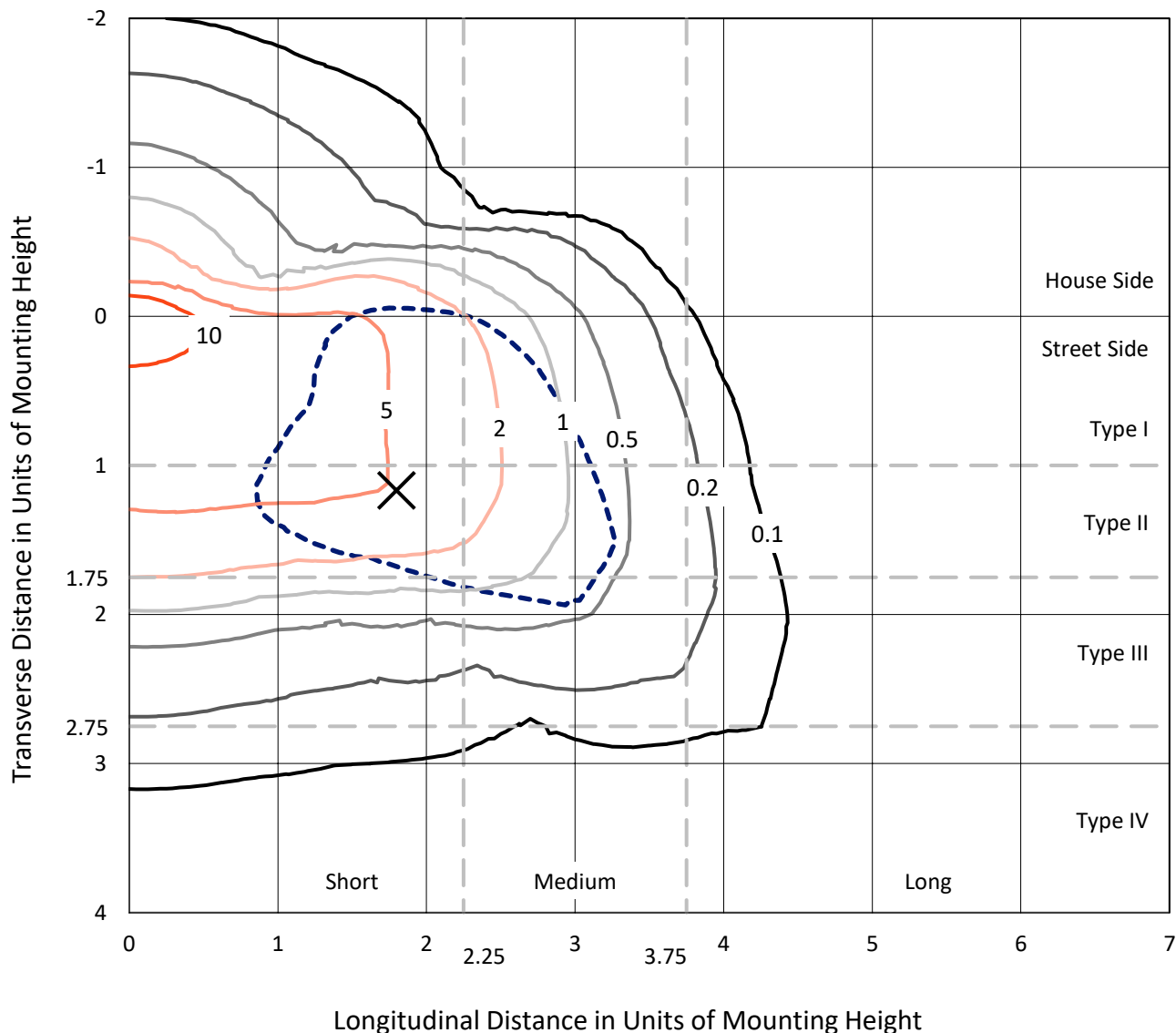
Lumens per Lamp: N/A
Luminaire Lumens: 56267.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P575026
 CATALOG NUMBER: EPH-VN-08-750-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

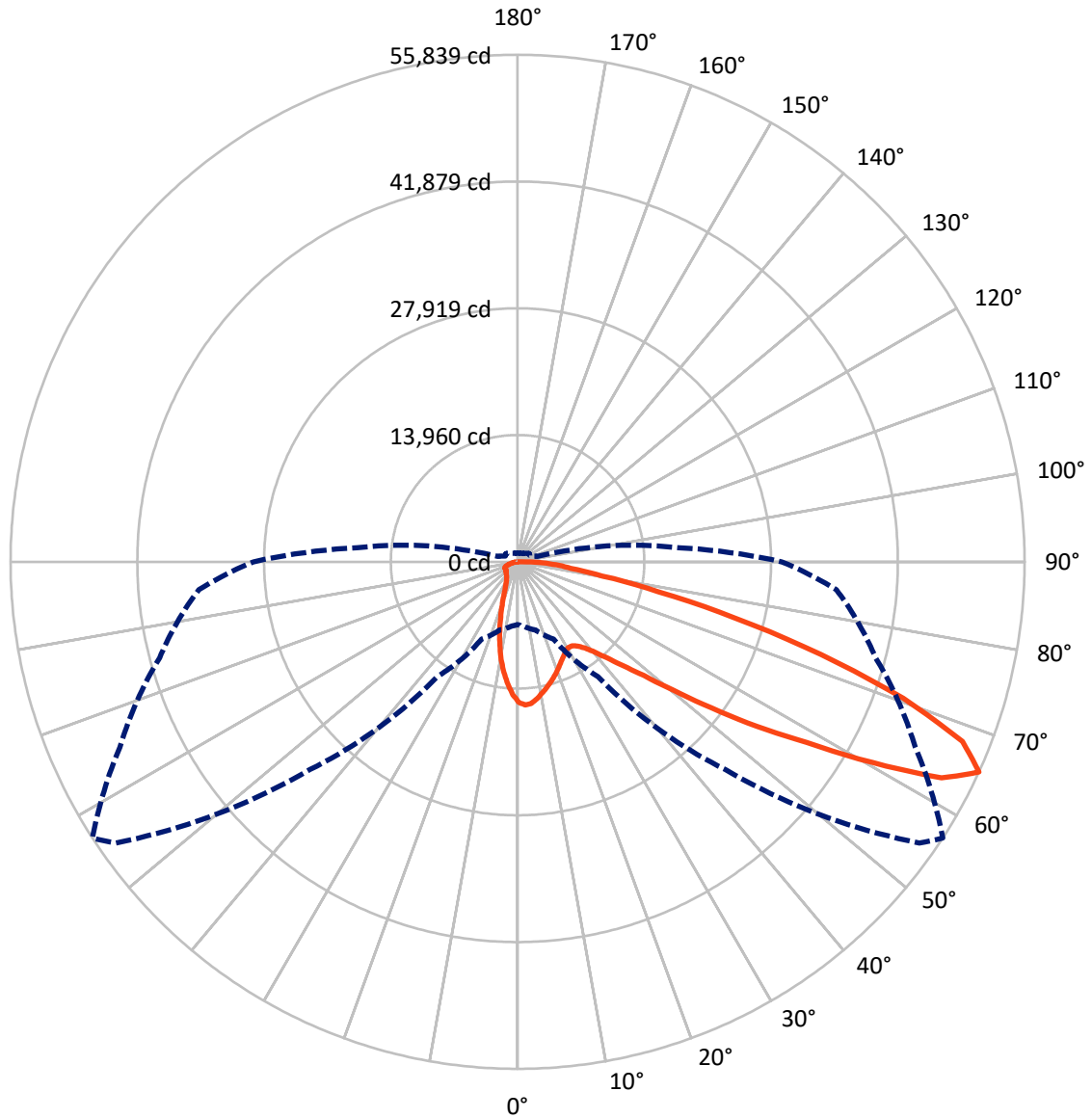
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Short - N/A

REPORT NUMBER: P575026
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Luminous Intensity Polar Plot



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

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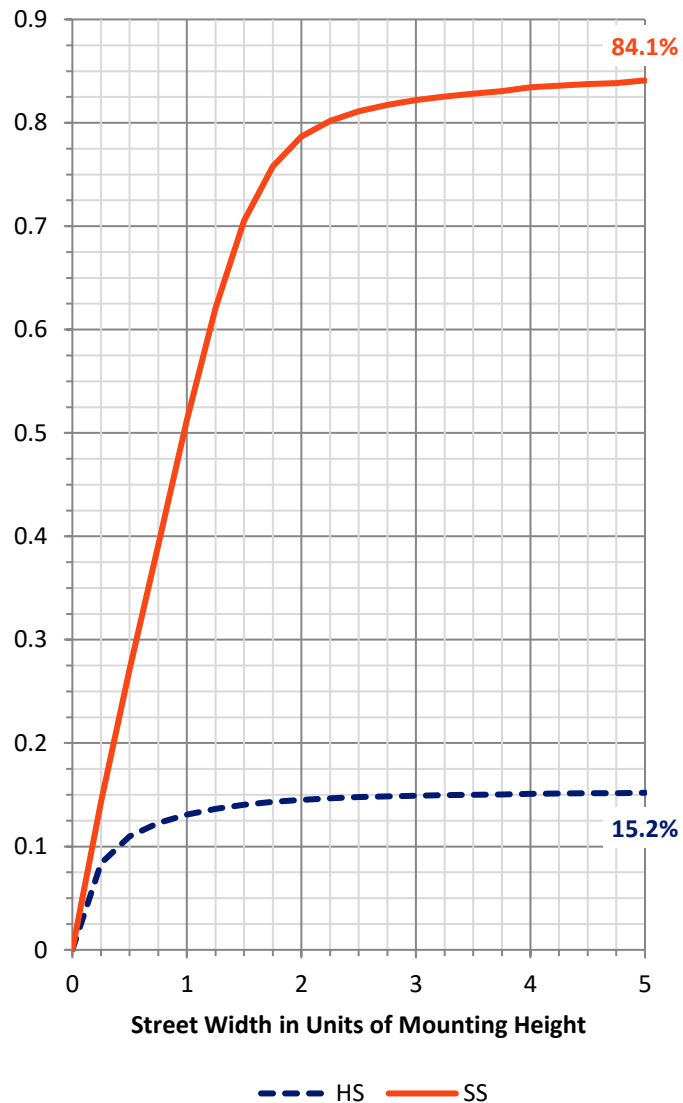
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8629.1	0.0	8629.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	47638.2	0.0	47638.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	56267.3	0.0	56267.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1295.7	2.3
10°-20°	2788.6	5.0
20°-30°	3605.4	6.4
30°-40°	4851.7	8.6
40°-50°	7736.2	13.7
50°-60°	13664.1	24.3
60°-70°	15032.3	26.7
70°-80°	6288.3	11.2
80°-90°	1005.0	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°	56267.3	100.0
0°-180°	56267.3	100.0

Coefficient of Utilization

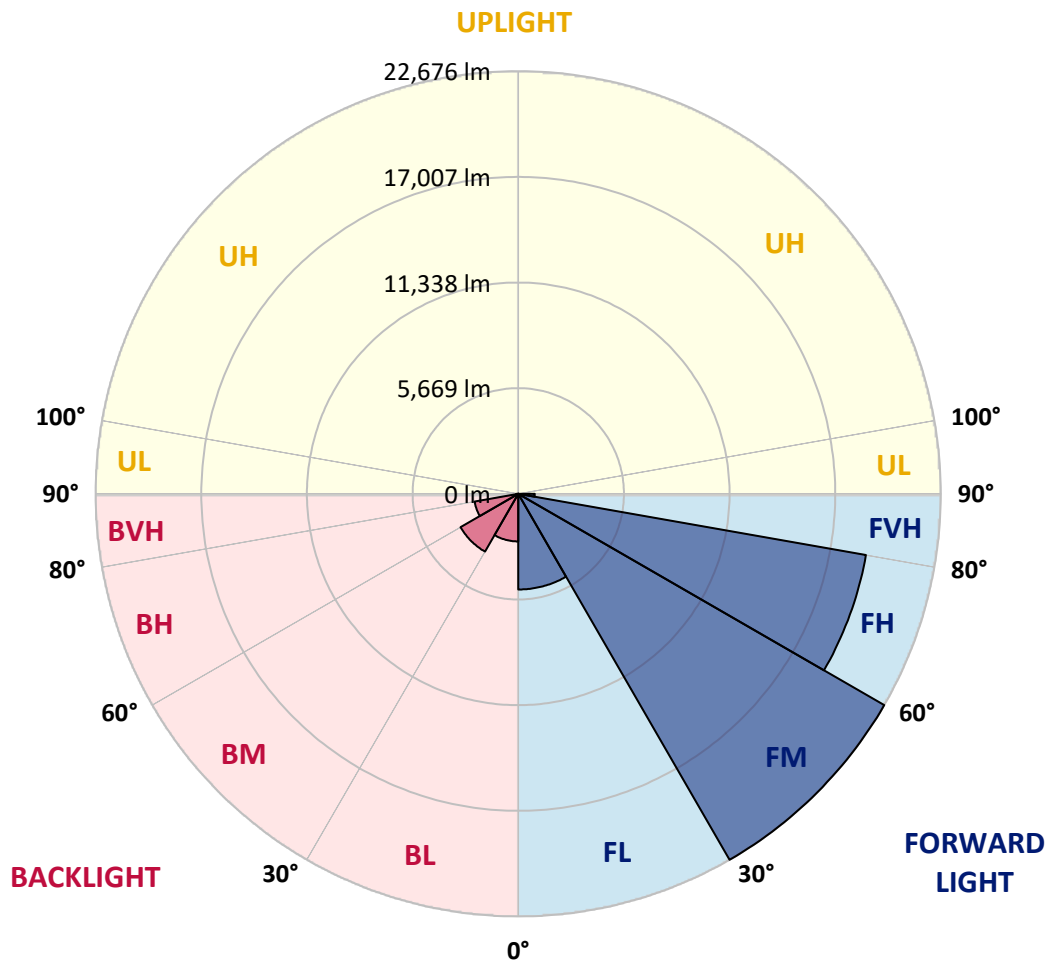


REPORT NUMBER: P575026
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5134.2	9.1			
FM (30°-60°)	22675.6	40.3			
FH (60°-80°)	18941.3	33.7			G5
FVH (80°-90°)	887.1	1.6			G5
BL (0°-30°)	2555.5	4.5	B4/5000		
BM (30°-60°)	3576.4	6.4	B3/5000		
BH (60°-80°)	2379.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	117.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





REPORT NUMBER: P575026
 CATALOG NUMBER: EPH-VN-08-750-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7
2.5°	15890.6	15915.9	15915.9	15966.5	15795.6	15877.9	15865.2	15789.3	15814.6	15681.6
5°	15441.1	15422.1	15523.4	15536.0	15669.0	15707.0	15738.6	15688.0	15700.6	15409.4
7.5°	14288.8	14282.5	14453.4	14599.1	14877.6	15137.2	15308.1	15257.5	15327.1	15143.5
10°	12921.4	13067.0	13244.2	13389.9	13902.7	14231.9	14675.0	14719.3	14985.2	14940.9
12.5°	11895.8	11959.1	12092.0	12509.9	12978.3	13522.8	14155.9	14212.9	14472.4	14599.1
15°	11053.7	11110.7	11281.7	11591.9	12117.3	12763.1	13567.1	13712.7	14231.9	14276.2
17.5°	10439.7	10484.0	10597.9	10908.1	11338.6	12168.0	12927.7	13187.3	13871.0	14086.2
20°	10199.1	10104.1	10167.4	10363.7	10794.2	11433.6	12414.9	12642.8	13516.5	13940.6
22.5°	10091.5	10009.2	10047.1	10034.5	10376.3	10832.2	11864.1	12104.7	13180.9	13769.7
25°	10173.8	10173.8	10135.8	10104.1	10142.1	10439.7	11269.0	11642.5	12731.4	13624.1
27.5°	10616.9	10446.0	10465.0	10332.0	10294.0	10294.0	11003.1	11224.7	12585.8	13541.8
30°	10901.8	10984.1	10990.4	10794.2	10597.9	10243.4	10756.2	10971.4	12465.5	13643.1
32.5°	11629.9	11591.9	11484.3	11446.3	11155.0	10756.2	10876.5	11022.1	12395.9	13871.0
35°	12357.9	12338.9	12345.3	12326.3	12022.4	11433.6	11199.4	11395.6	12522.5	14269.8
37.5°	13111.3	13161.9	13377.2	13377.2	13054.3	12414.9	12104.7	12047.7	12984.7	14921.9
40°	13864.7	13991.3	14263.5	14694.0	14238.2	13643.1	13142.9	13054.3	13541.8	15795.6
42.5°	14586.4	14795.3	15333.4	15972.9	15820.9	15225.8	14561.1	14459.8	14687.7	17093.4
45°	15510.7	15688.0	16536.3	17517.6	17726.5	17201.1	16422.4	16340.0	16327.4	18992.7
47.5°	16916.2	17106.1	17954.4	18942.0	19587.8	19670.1	18796.4	18707.8	18403.9	21556.7
50°	18676.2	18986.4	19701.8	20854.0	21791.0	22670.9	22424.0	22164.5	21569.4	24538.6
52.5°	19961.3	20341.2	21309.8	22784.9	24437.3	25836.4	26722.7	26722.7	25355.2	27811.6
55°	20303.2	20531.1	21753.0	23886.5	26716.4	30255.4	32110.3	31971.0	29862.8	31255.6
57.5°	18942.0	19239.6	20721.0	22955.8	27912.9	34389.4	37459.9	37491.6	34788.3	35256.8
60°	15194.2	15289.1	17036.4	20024.6	26760.7	37719.5	44765.8	44886.1	40391.1	38821.1
62.5°	10503.0	10806.8	12123.7	14744.7	22170.8	37346.0	51812.1	52407.2	44879.7	40701.3
65°	6913.3	7096.9	7799.7	9395.1	15434.7	32369.9	54002.6	55838.5	48311.1	40809.0
67.5°	5014.1	5045.7	5254.6	6077.7	9274.8	23278.7	50261.0	52850.3	49596.3	39910.0
70°	4051.8	4077.1	4153.1	4678.5	5989.0	14567.4	40992.6	45050.7	45740.7	35649.3
72.5°	3292.1	3323.7	3418.7	3912.5	4938.1	8103.6	29976.8	34921.2	37206.7	26374.5
75°	2589.3	2614.7	2842.6	3330.1	4640.5	5564.9	19885.4	24728.5	25038.7	15415.7
77.5°	1772.7	1817.0	2095.5	2823.6	4368.3	4868.5	12395.9	15839.9	14212.9	6033.3
80°	1126.9	1190.2	1354.8	2139.8	3861.8	4646.9	7711.0	9458.4	6223.3	2063.9
82.5°	664.7	728.1	892.7	1386.5	3032.5	4311.3	5431.9	5919.4	2918.5	1057.3
85°	367.2	411.5	538.1	835.7	1779.0	3830.2	4349.3	4248.0	1671.4	563.4
87.5°	120.3	139.3	196.3	335.5	734.4	1804.3	2608.3	2450.1	867.3	259.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575026
 CATALOG NUMBER: EPH-VN-08-750-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
15472.7	0°	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7	15472.7
15548.7	2.5°	15460.1	15441.1	15156.2	14940.9	14573.7	14269.8	14149.6	13985.0	13978.6	13858.3
15282.8	5°	15086.5	14890.3	14453.4	14035.6	13383.5	12946.7	12547.8	12269.3	12155.3	11908.4
14846.0	7.5°	14605.4	14345.8	13674.7	12889.7	12123.7	11439.9	10819.5	10199.1	9850.9	9730.6
14402.8	10°	14105.2	13649.4	12655.5	11775.5	10705.5	9654.6	8679.7	7806.0	7331.2	6995.6
14130.6	12.5°	13706.4	13098.6	11832.4	10515.6	9103.8	7698.4	6565.1	5647.2	5109.0	4855.8
13776.0	15°	13256.9	12452.9	10933.5	9268.4	7508.4	5913.1	4805.2	4083.4	3868.2	3747.9
13408.8	17.5°	12782.1	11851.4	9958.5	8040.2	5951.0	4450.6	3735.2	3444.0	3349.0	3298.4
13060.6	20°	12338.9	11313.3	8958.2	6672.8	4659.5	3570.6	3235.1	3083.1	3076.8	3102.1
12750.4	22.5°	11712.2	10610.6	7970.6	5406.6	3722.6	3108.5	2893.2	2855.2	2893.2	2924.9
12433.9	25°	11357.6	10034.5	6869.0	4292.3	3076.8	2760.3	2690.6	2678.0	2734.9	2772.9
12174.3	27.5°	10990.4	9439.4	5843.4	3437.7	2697.0	2513.4	2500.7	2513.4	2570.3	2627.3
12022.4	30°	10705.5	8964.6	4881.1	2874.2	2405.7	2336.1	2323.4	2336.1	2367.8	2374.1
12066.7	32.5°	10471.3	8401.1	4064.4	2494.4	2228.5	2171.5	2184.2	2177.8	2184.2	2190.5
12218.6	35°	10332.0	8065.6	3393.4	2260.1	2082.9	2038.5	2032.2	2013.2	2019.6	2025.9
12579.5	37.5°	10629.6	7901.0	2861.6	2095.5	1981.6	1943.6	1930.9	1918.3	1899.3	1899.3
13446.8	40°	11079.1	7812.3	2538.7	1987.9	1905.6	1861.3	1823.3	1810.6	1810.6	1817.0
14656.0	42.5°	11971.7	7957.9	2317.1	1905.6	1810.6	1760.0	1722.0	1728.3	1747.3	1766.3
16321.1	45°	13263.2	8401.1	2215.8	1842.3	1753.7	1684.0	1658.7	1652.4	1671.4	1703.0
18758.5	47.5°	14953.6	9091.2	2177.8	1785.3	1715.7	1620.7	1589.1	1608.0	1633.4	1677.7
21847.9	50°	17720.2	10642.2	2209.5	1734.7	1658.7	1589.1	1551.1	1532.1	1551.1	1582.7
25564.2	52.5°	21335.1	13459.5	2329.8	1709.3	1620.7	1563.7	1500.4	1468.8	1487.8	1513.1
29888.2	55°	25659.1	17308.7	2665.3	1677.7	1557.4	1525.7	1456.1	1392.8	1405.5	1405.5
34155.2	57.5°	29470.3	20214.6	3064.2	1633.4	1519.4	1475.1	1386.5	1310.5	1297.8	1304.2
36326.7	60°	31179.7	20986.9	3254.1	1620.7	1519.4	1411.8	1291.5	1215.5	1196.5	1183.9
36668.6	62.5°	30882.1	19651.1	2867.9	1563.7	1557.4	1361.1	1202.9	1120.6	1095.2	1069.9
35237.8	65°	29084.1	17745.5	2260.1	1487.8	1563.7	1329.5	1114.2	1031.9	987.6	956.0
31882.4	67.5°	25798.4	15149.8	1791.6	1430.8	1500.4	1272.5	1038.3	943.3	905.3	873.7
25678.1	70°	20182.9	11876.8	1557.4	1354.8	1348.5	1133.2	949.6	867.3	810.4	772.4
17068.1	72.5°	13086.0	7508.4	1335.8	1202.9	1164.9	949.6	823.0	772.4	728.1	696.4
7989.6	75°	5925.7	3488.3	1076.3	1006.6	949.6	759.7	696.4	671.1	633.1	601.4
2747.6	77.5°	2127.2	1487.8	804.0	791.4	709.1	588.8	563.4	544.5	519.1	487.5
1323.2	80°	1190.2	943.3	601.4	576.1	493.8	436.8	405.2	405.2	392.5	373.5
797.7	82.5°	753.4	614.1	443.2	386.2	322.9	291.2	278.6	272.2	265.9	240.6
500.1	85°	474.8	417.8	291.2	227.9	189.9	145.6	139.3	132.9	120.3	107.6
196.3	87.5°	215.3	240.6	114.0	69.6	50.6	31.7	19.0	6.3	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°
15472.7
13826.7
11851.4
9597.6
6850.0
4741.8
3728.9
3273.1
3095.8
2937.5
2766.6
2621.0
2374.1
2196.8
2019.6
1899.3
1823.3
1753.7
1728.3
1658.7
1595.4
1513.1
1399.1
1310.5
1183.9
1076.3
949.6
861.0
772.4
696.4
601.4
487.5
367.2
234.2
107.6
0.0
0.0

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