

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: P575025

Luminaire Tested: **EPH-VN-07-750-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

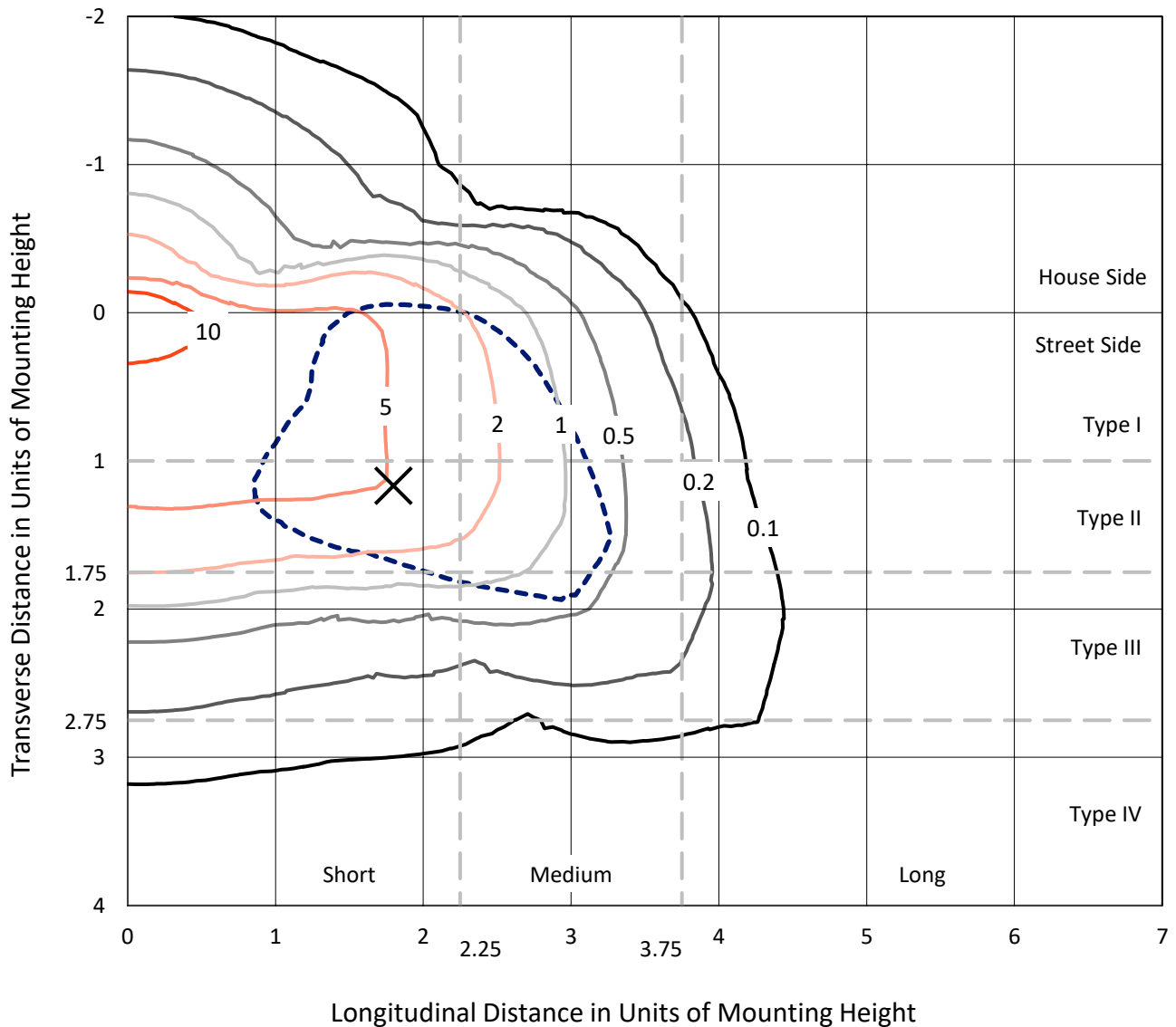
Lumens per Lamp: N/A
Luminaire Lumens: 56977.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

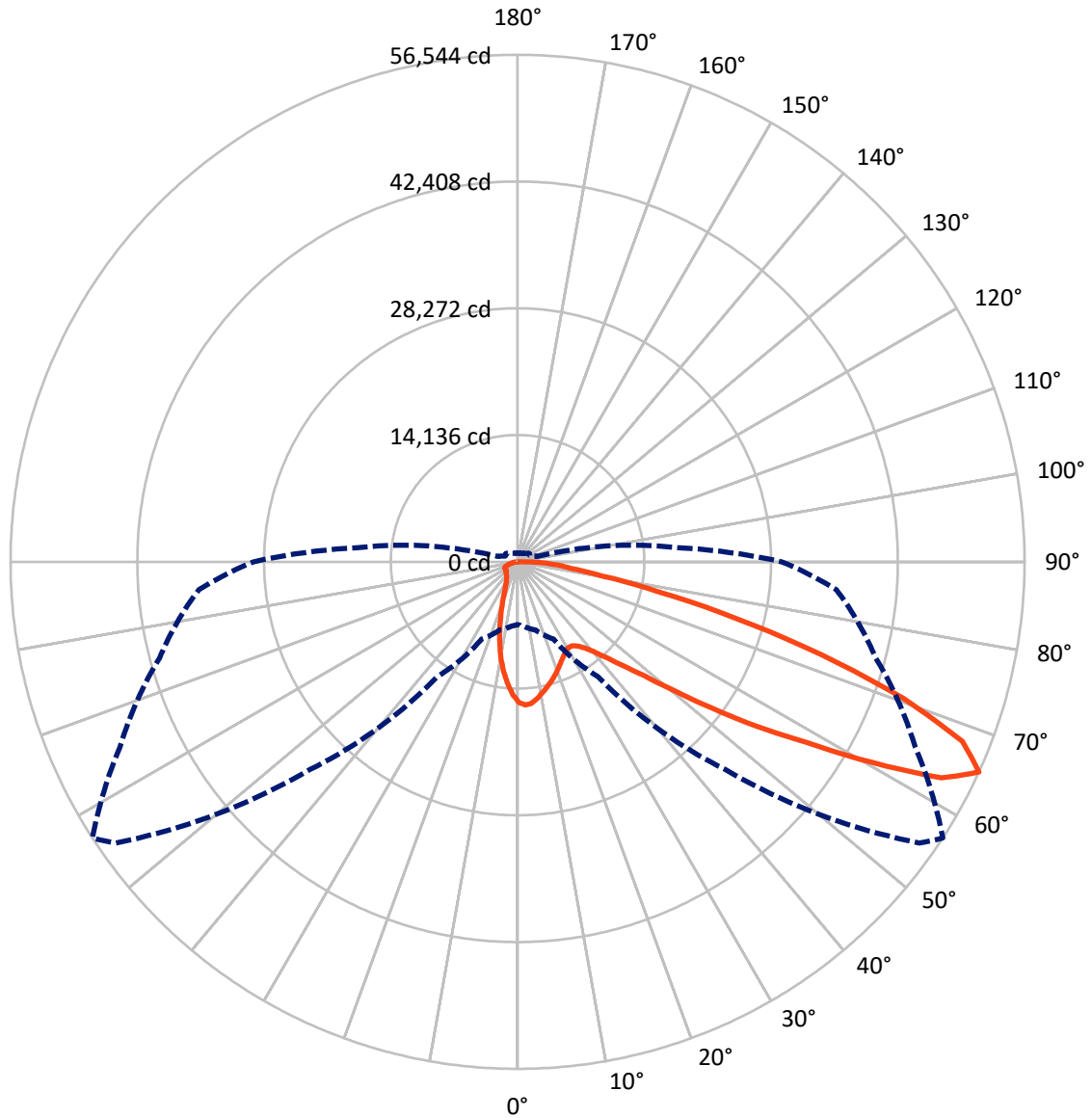
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.4 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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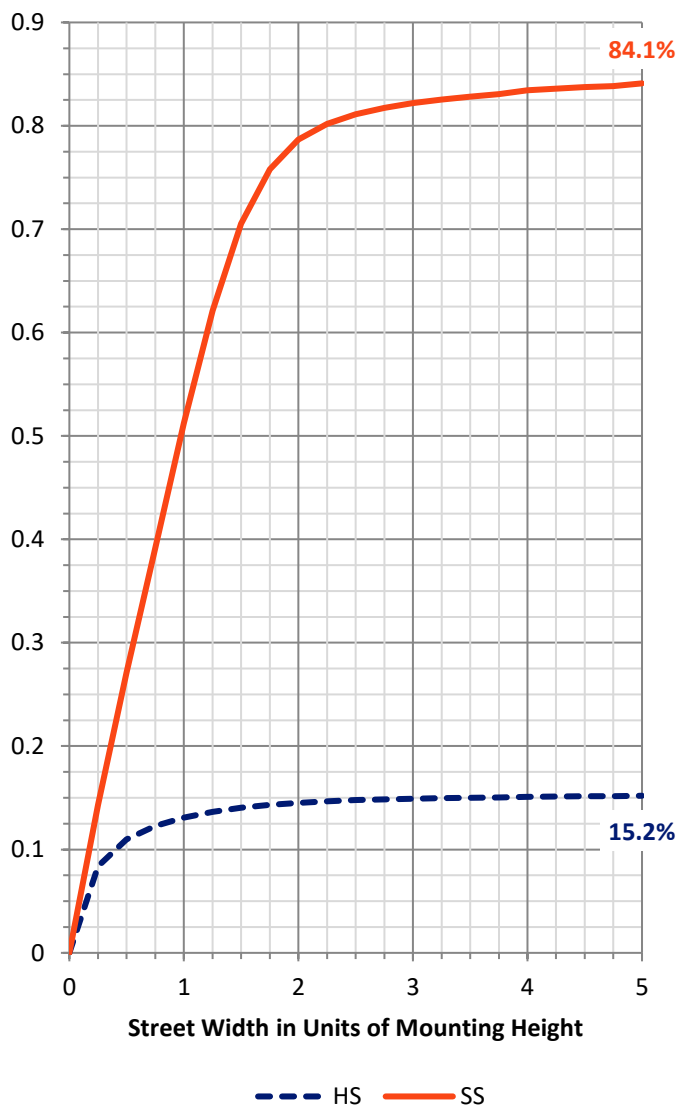
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8738.1	0.0	8738.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	48239.6	0.0	48239.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	56977.7	0.0	56977.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1312.1	2.3
10°-20°	2823.8	5.0
20°-30°	3650.9	6.4
30°-40°	4912.9	8.6
40°-50°	7833.9	13.7
50°-60°	13836.6	24.3
60°-70°	15222.1	26.7
70°-80°	6367.6	11.2
80°-90°	1017.7	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°	56977.7	100.0
0°-180°	56977.7	100.0

Coefficient of Utilization



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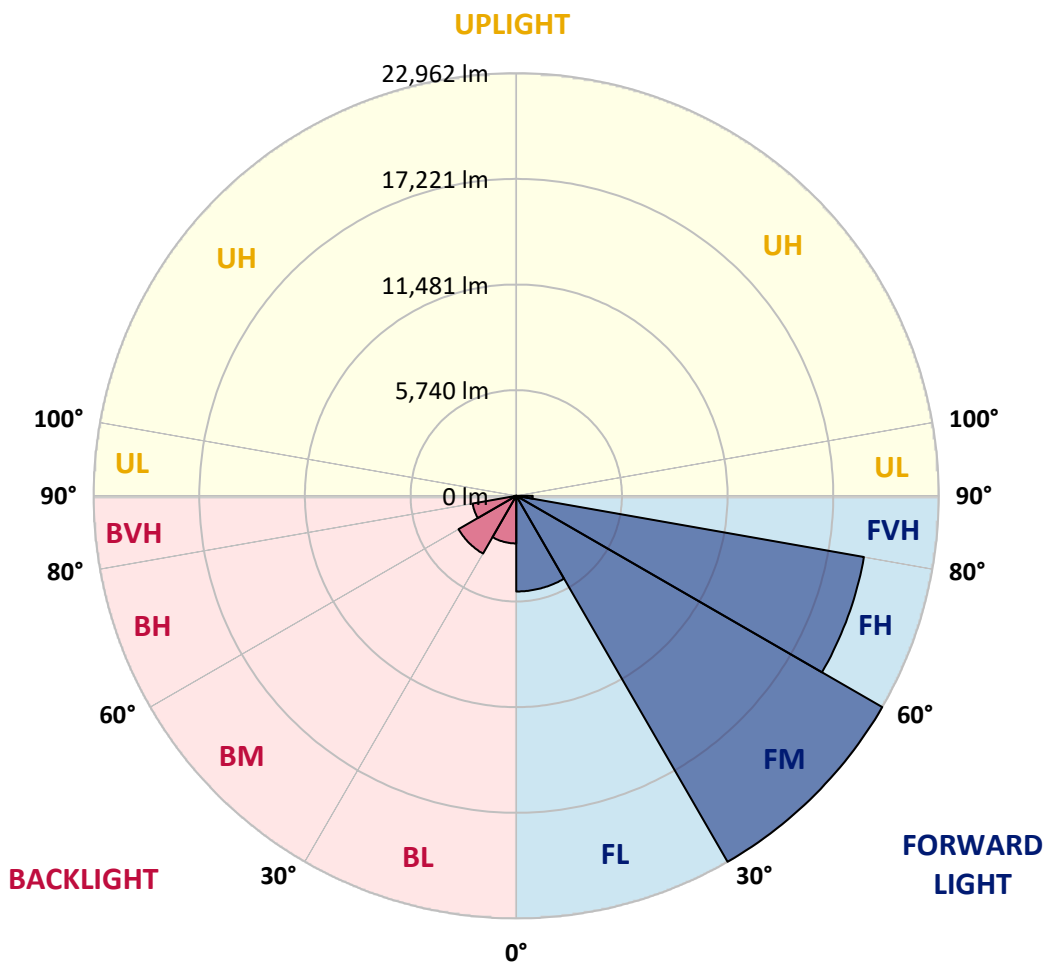
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5199.0	9.1			
FM (30°-60°)	22961.9	40.3			
FH (60°-80°)	19180.4	33.7			G5
FVH (80°-90°)	898.3	1.6			G5
BL (0°-30°)	2587.8	4.5	B4/5000		
BM (30°-60°)	3621.5	6.4	B3/5000		
BH (60°-80°)	2409.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	119.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1
2.5°	16091.2	16116.8	16116.8	16168.1	15995.0	16078.3	16065.5	15988.6	16014.2	15879.6
5°	15636.0	15616.8	15719.3	15732.2	15866.8	15905.3	15937.3	15886.0	15898.8	15603.9
7.5°	14469.2	14462.8	14635.9	14783.4	15065.4	15328.3	15501.4	15450.1	15520.6	15334.7
10°	13084.5	13231.9	13411.4	13558.9	14078.2	14411.5	14860.3	14905.2	15174.4	15129.5
12.5°	12045.9	12110.0	12244.7	12667.8	13142.2	13693.5	14334.6	14392.3	14655.1	14783.4
15°	11193.3	11251.0	11424.1	11738.2	12270.3	12924.2	13738.4	13885.8	14411.5	14456.4
17.5°	10571.4	10616.3	10731.7	11045.8	11481.8	12321.6	13090.9	13353.7	14046.1	14264.1
20°	10327.8	10231.7	10295.8	10494.5	10930.5	11577.9	12571.6	12802.4	13687.1	14116.6
22.5°	10218.9	10135.5	10174.0	10161.2	10507.3	10968.9	12013.9	12257.5	13347.3	13943.5
25°	10302.2	10302.2	10263.7	10231.7	10270.1	10571.4	11411.3	11789.5	12892.2	13796.1
27.5°	10751.0	10577.9	10597.1	10462.5	10424.0	10424.0	11142.0	11366.4	12744.7	13712.8
30°	11039.4	11122.8	11129.2	10930.5	10731.7	10372.7	10892.0	11110.0	12622.9	13815.3
32.5°	11776.7	11738.2	11629.2	11590.8	11295.9	10892.0	11013.8	11161.2	12552.4	14046.1
35°	12513.9	12494.7	12501.1	12481.9	12174.2	11577.9	11340.7	11539.5	12680.6	14450.0
37.5°	13276.8	13328.1	13546.1	13546.1	13219.1	12571.6	12257.5	12199.8	13148.6	15110.3
40°	14039.7	14167.9	14443.6	14879.5	14417.9	13815.3	13308.9	13219.1	13712.8	15995.0
42.5°	14770.5	14982.1	15527.0	16174.5	16020.6	15418.0	14744.9	14642.3	14873.1	17309.2
45°	15706.5	15886.0	16745.1	17738.7	17950.3	17418.2	16629.7	16546.3	16533.5	19232.5
47.5°	17129.7	17322.0	18181.1	19181.2	19835.1	19918.4	19033.7	18944.0	18636.3	21828.9
50°	18911.9	19226.1	19950.5	21117.3	22066.1	22957.2	22707.1	22444.3	21841.7	24848.4
52.5°	20213.3	20598.0	21578.8	23072.6	24745.8	26162.6	27060.1	27060.1	25675.3	28162.7
55°	20559.5	20790.3	22027.6	24188.0	27053.7	30637.3	32515.7	32374.7	30239.9	31650.2
57.5°	19181.2	19482.5	20982.6	23245.6	28265.3	34823.6	37932.8	37964.9	35227.5	35701.9
60°	15386.0	15482.1	17251.5	20277.4	27098.6	38195.7	45330.9	45452.7	40901.1	39311.2
62.5°	10635.6	10943.3	12276.7	14930.8	22450.7	37817.4	52466.2	53068.8	45446.3	41215.2
65°	7000.6	7186.5	7898.1	9513.7	15629.6	32778.5	54684.3	56543.5	48921.0	41324.2
67.5°	5077.4	5109.4	5321.0	6154.4	9391.9	23572.6	50895.5	53517.6	50222.4	40413.8
70°	4102.9	4128.6	4205.5	4737.6	6064.6	14751.3	41510.1	45619.4	46318.2	36099.3
72.5°	3333.6	3365.7	3461.8	3961.9	5000.4	8205.9	30355.2	35362.1	37676.4	26707.5
75°	2622.0	2647.7	2878.5	3372.1	4699.1	5635.1	20136.4	25040.7	25354.8	15610.4
77.5°	1795.0	1839.9	2122.0	2859.2	4423.5	4929.9	12552.4	16039.9	14392.3	6109.5
80°	1141.1	1205.2	1371.9	2166.9	3910.6	4705.5	7808.4	9577.8	6301.8	2089.9
82.5°	673.1	737.2	903.9	1404.0	3070.8	4365.8	5500.5	5994.1	2955.4	1070.6
85°	371.8	416.7	544.9	846.2	1801.4	3878.5	4404.2	4301.7	1692.5	570.6
87.5°	121.8	141.0	198.7	339.8	743.7	1827.1	2641.3	2481.0	878.3	262.8
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°
15668.1	0°	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1	15668.1
15745.0	2.5°	15655.2	15636.0	15347.5	15129.5	14757.7	14450.0	14328.2	14161.5	14155.1	14033.3
15475.7	5°	15277.0	15078.3	14635.9	14212.8	13552.5	13110.1	12706.3	12424.2	12308.8	12058.8
15033.4	7.5°	14789.8	14526.9	13847.4	13052.4	12276.7	11584.4	10956.1	10327.8	9975.2	9853.4
14584.6	10°	14283.3	13821.7	12815.2	11924.1	10840.7	9776.5	8789.2	7904.5	7423.7	7084.0
14309.0	12.5°	13879.4	13264.0	11981.8	10648.4	9218.8	7795.6	6648.0	5718.5	5173.5	4917.1
13950.0	15°	13424.3	12610.1	11071.5	9385.4	7603.2	5987.7	4865.8	4135.0	3917.0	3795.2
13578.1	17.5°	12943.5	12001.1	10084.2	8141.7	6026.2	4506.8	3782.4	3487.5	3391.3	3340.0
13225.5	20°	12494.7	11456.1	9071.3	6757.0	4718.4	3615.7	3275.9	3122.1	3115.7	3141.3
12911.4	22.5°	11860.0	10744.5	8071.2	5474.8	3769.6	3147.7	2929.7	2891.3	2929.7	2961.8
12590.9	25°	11501.0	10161.2	6955.7	4346.5	3115.7	2795.1	2724.6	2711.8	2769.5	2807.9
12328.0	27.5°	11129.2	9558.5	5917.2	3481.1	2731.0	2545.1	2532.3	2545.1	2602.8	2660.5
12174.2	30°	10840.7	9077.7	4942.7	2910.5	2436.1	2365.6	2352.8	2365.6	2397.6	2404.1
12219.0	32.5°	10603.5	8507.2	4115.7	2525.9	2256.6	2198.9	2211.7	2205.3	2211.7	2218.1
12372.9	35°	10462.5	8167.4	3436.2	2288.7	2109.2	2064.3	2057.9	2038.6	2045.1	2051.5
12738.3	37.5°	10763.8	8000.7	2897.7	2122.0	2006.6	1968.1	1955.3	1942.5	1923.2	1923.2
13616.6	40°	11218.9	7911.0	2570.7	2013.0	1929.7	1884.8	1846.3	1833.5	1833.5	1839.9
14841.1	42.5°	12122.9	8058.4	2346.4	1929.7	1833.5	1782.2	1743.7	1750.2	1769.4	1788.6
16527.1	45°	13430.7	8507.2	2243.8	1865.5	1775.8	1705.3	1679.6	1673.2	1692.5	1724.5
18995.3	47.5°	15142.4	9205.9	2205.3	1807.9	1737.3	1641.2	1609.1	1628.3	1654.0	1698.9
22123.8	50°	17943.9	10776.6	2237.4	1756.6	1679.6	1609.1	1570.7	1551.4	1570.7	1602.7
25886.9	52.5°	21604.5	13629.4	2359.2	1730.9	1641.2	1583.5	1519.4	1487.3	1506.5	1532.2
30265.5	55°	25983.1	17527.2	2699.0	1698.9	1577.1	1545.0	1474.5	1410.4	1423.2	1423.2
34586.4	57.5°	29842.4	20469.8	3102.8	1654.0	1538.6	1493.7	1404.0	1327.0	1314.2	1320.6
36785.3	60°	31573.3	21251.9	3295.2	1641.2	1538.6	1429.6	1307.8	1230.9	1211.6	1198.8
37131.5	62.5°	31272.0	19899.2	2904.1	1583.5	1577.1	1378.3	1218.1	1134.7	1109.1	1083.4
35682.6	65°	29451.3	17969.5	2288.7	1506.5	1583.5	1346.3	1128.3	1045.0	1000.1	968.0
32284.9	67.5°	26124.1	15341.1	1814.3	1448.8	1519.4	1288.6	1051.4	955.2	916.7	884.7
26002.3	70°	20437.7	12026.7	1577.1	1371.9	1365.5	1147.5	961.6	878.3	820.6	782.1
17283.6	72.5°	13251.2	7603.2	1352.7	1218.1	1179.6	961.6	833.4	782.1	737.2	705.2
8090.5	75°	6000.5	3532.4	1089.8	1019.3	961.6	769.3	705.2	679.5	641.1	609.0
2782.3	77.5°	2154.0	1506.5	814.2	801.4	718.0	596.2	570.6	551.3	525.7	493.6
1339.9	80°	1205.2	955.2	609.0	583.4	500.0	442.3	410.3	410.3	397.5	378.2
807.8	82.5°	762.9	621.8	448.8	391.1	327.0	294.9	282.1	275.7	269.3	243.6
506.5	85°	480.8	423.1	294.9	230.8	192.3	147.4	141.0	134.6	121.8	109.0
198.7	87.5°	218.0	243.6	115.4	70.5	51.3	32.1	19.2	6.4	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°
15668.1
14001.2
12001.1
9718.8
6936.5
4801.7
3776.0
3314.4
3134.9
2974.6
2801.5
2654.1
2404.1
2224.6
2045.1
1923.2
1846.3
1775.8
1750.2
1679.6
1615.5
1532.2
1416.8
1327.0
1198.8
1089.8
961.6
871.9
782.1
705.2
609.0
493.6
371.8
237.2
109.0
0.0
0.0

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