

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: P574985

Luminaire Tested: **EPH-VN-07-750-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574985
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-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

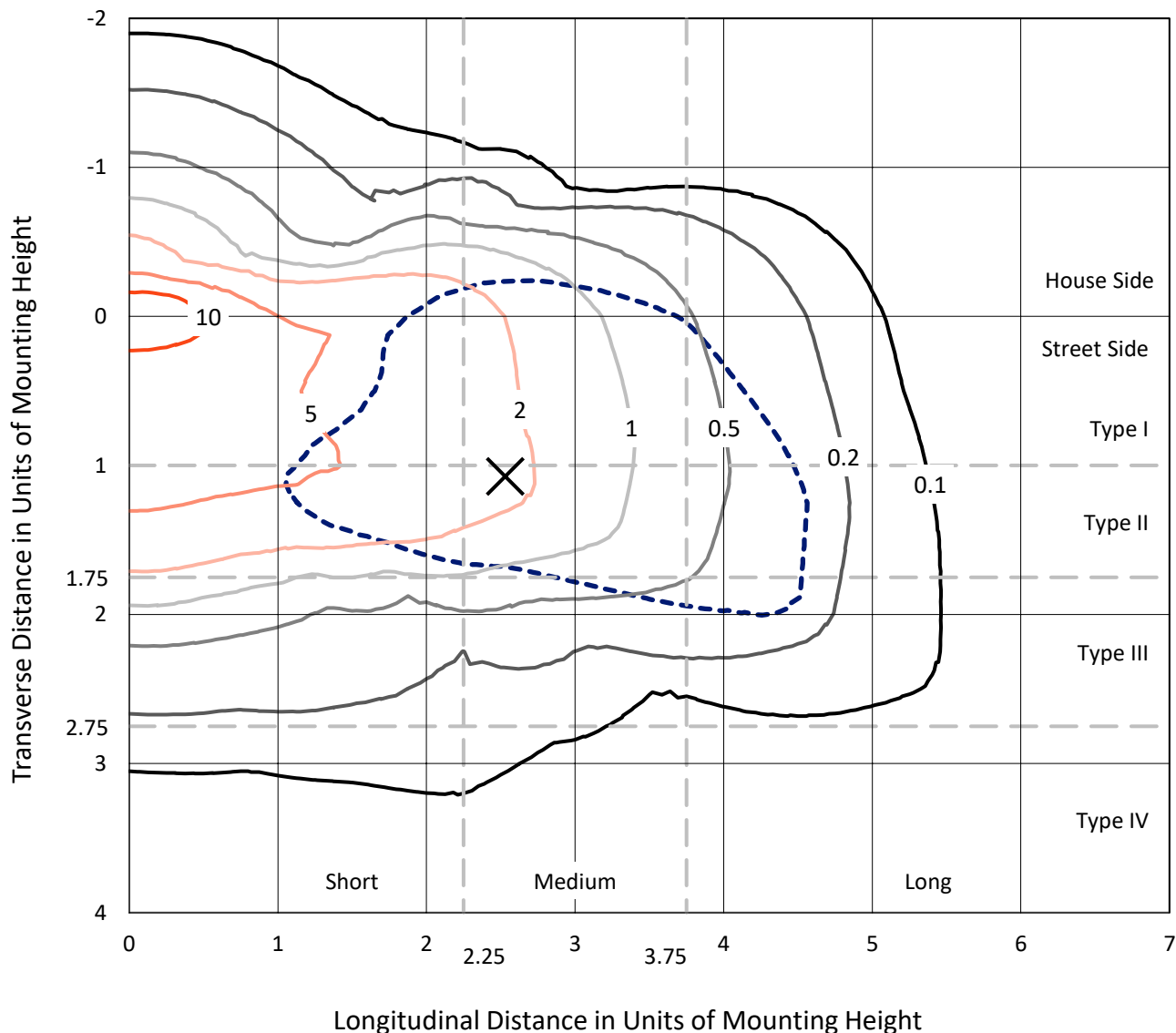
Lumens per Lamp: N/A
Luminaire Lumens: 57574.3 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

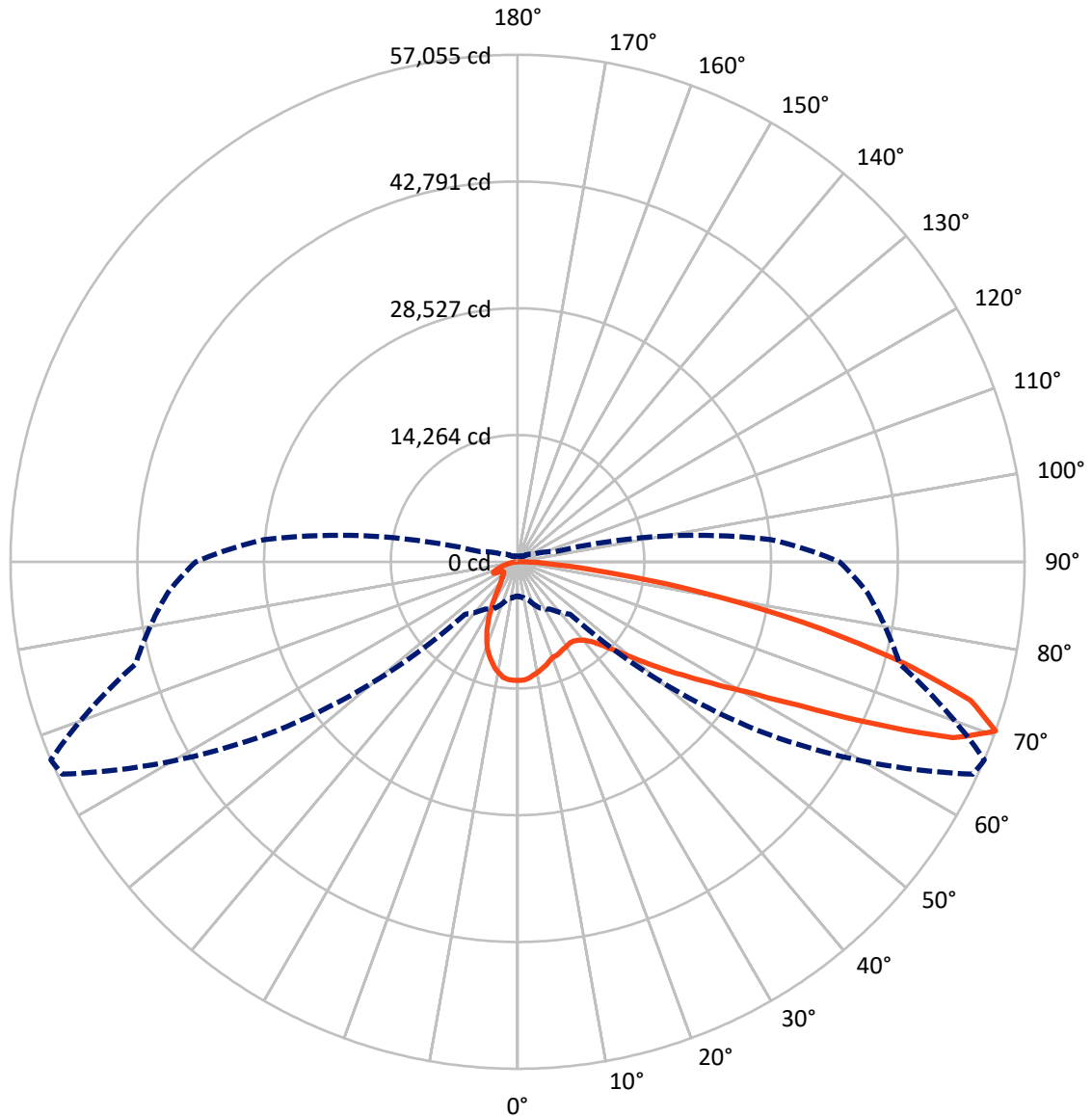
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 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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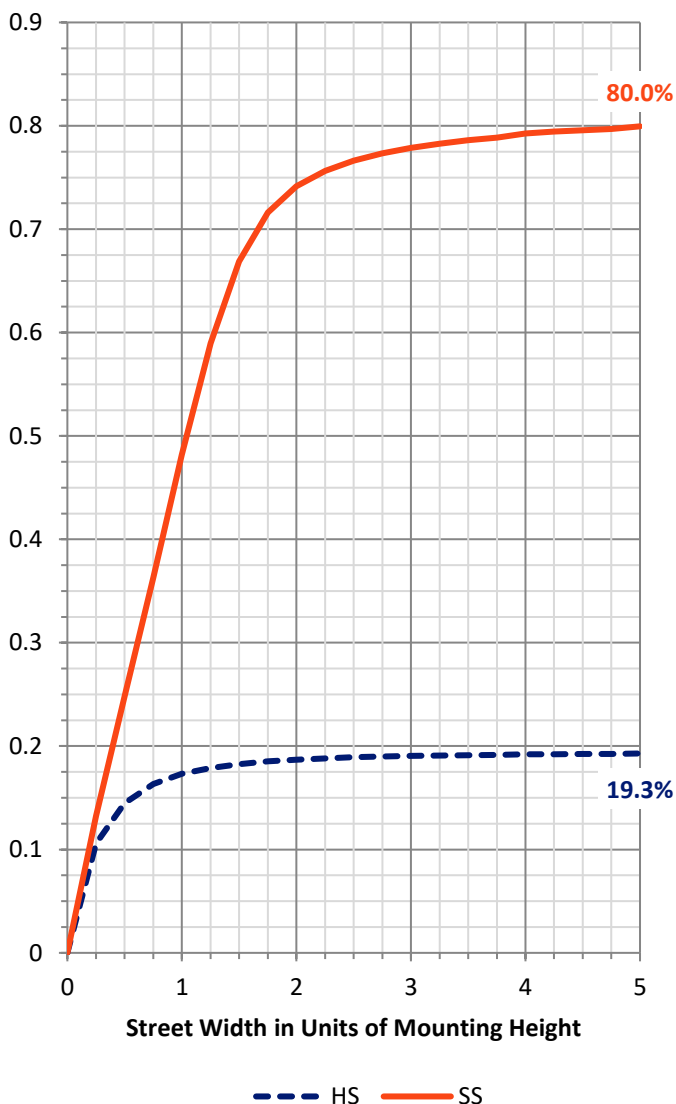
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11213.1	0.0	11213.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	46361.1	0.0	46361.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	57574.3	0.0	57574.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.9	2.0
10°-20°	2785.2	4.8
20°-30°	3761.1	6.5
30°-40°	5032.7	8.7
40°-50°	7400.5	12.9
50°-60°	11535.6	20.0
60°-70°	14209.9	24.7
70°-80°	10040.6	17.4
80°-90°	1645.7	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°	57574.3	100.0
0°-180°	57574.3	100.0

Coefficient of Utilization

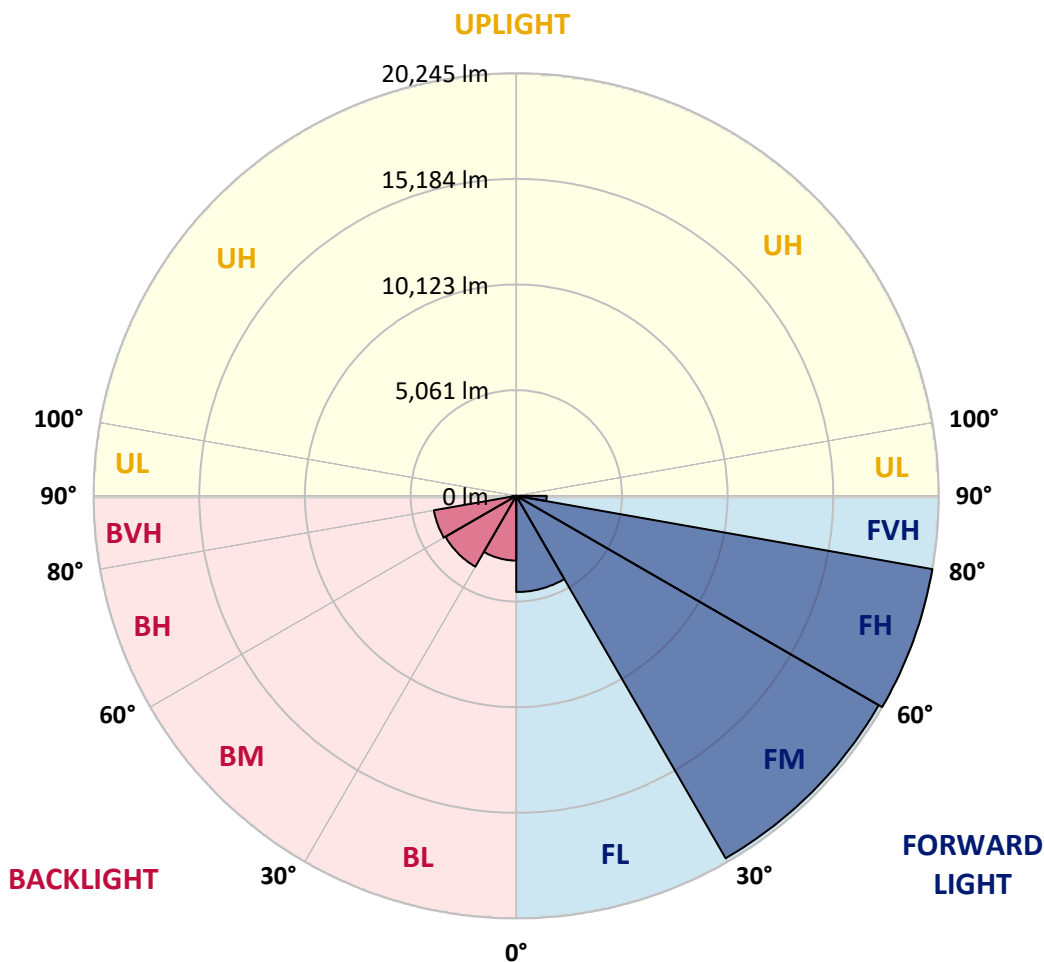


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4608.4	8.0			
FM (30°-60°)	20051.9	34.8			
FH (60°-80°)	20245.0	35.2			G5
FVH (80°-90°)	1455.9	2.5			G5
BL (0°-30°)	3100.8	5.4	B4/5000		
BM (30°-60°)	3917.0	6.8	B3/5000		
BH (60°-80°)	4005.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	189.8	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°	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3
2.5°	12410.4	12550.6	12601.6	12678.1	12875.7	13022.3	13111.5	13213.5	13334.6	13436.6
5°	11543.5	11620.0	11741.1	11824.0	12072.6	12467.8	12735.5	13168.9	13156.2	13315.5
7.5°	10702.1	10778.6	10836.0	11001.7	11358.7	11715.6	12206.4	12907.6	12856.6	13226.3
10°	10179.5	10122.1	10141.2	10421.7	10702.1	11103.7	11722.0	12435.9	12620.7	13194.4
12.5°	9688.6	9624.9	9777.9	9956.4	10300.6	10663.9	11403.3	12047.1	12327.5	13079.7
15°	9382.7	9338.1	9529.3	9605.8	10013.7	10447.2	10969.8	11753.9	12059.8	12939.4
17.5°	9210.6	9248.8	9318.9	9484.7	9746.0	10115.7	10689.4	11556.3	11690.1	12767.3
20°	9242.5	9287.1	9293.5	9363.6	9542.0	9828.9	10415.3	11345.9	11435.2	12735.5
22.5°	9497.4	9433.7	9459.2	9414.6	9465.6	9688.6	10205.0	11065.5	11409.7	12467.8
25°	9879.9	9790.6	9777.9	9624.9	9529.3	9593.0	10166.7	10995.3	11218.4	12384.9
27.5°	10555.5	10421.7	10421.7	10192.2	9803.4	9701.4	10058.3	10880.6	11078.2	12308.4
30°	11205.7	11205.7	11212.1	10887.0	10453.5	9950.0	10103.0	10836.0	10963.5	12078.9
32.5°	11996.1	11977.0	11945.1	11785.7	11116.4	10364.3	10319.7	10778.6	10842.4	12002.4
35°	12767.3	12716.3	12964.9	12824.7	12142.7	11173.8	10542.8	10804.1	10944.3	11887.7
37.5°	13347.4	13379.3	13895.6	13984.8	13398.4	12091.7	11173.8	11059.1	11192.9	12053.4
40°	14099.5	14227.0	14711.4	15011.0	14654.1	13302.8	12174.6	11486.1	11581.8	12423.1
42.5°	15087.5	15195.9	15814.2	16203.0	16101.0	14845.3	13162.5	12378.5	12302.0	13041.4
45°	16394.2	16413.3	17038.0	17573.4	17783.8	16458.0	14730.6	13506.7	13443.0	14105.9
47.5°	17949.5	17930.4	18319.2	18892.9	19460.2	18382.9	16534.4	15221.4	14991.9	15629.3
50°	19453.8	19370.9	19460.2	20193.2	21283.2	20792.3	18727.1	17318.5	17089.0	17439.6
52.5°	20282.4	20384.4	20142.2	21111.1	23220.9	23641.6	21633.7	19823.5	19625.9	19798.0
55°	19702.4	19912.7	19753.4	20671.2	24068.6	27115.5	25394.5	22723.7	22468.7	22405.0
57.5°	17235.6	17618.0	17649.9	19103.2	23775.4	29805.3	30685.0	26146.6	25764.2	25114.0
60°	13232.7	13615.1	13908.3	15629.3	21264.0	31411.6	36816.9	31016.4	29754.3	28071.6
62.5°	9274.3	9535.7	9828.9	10887.0	16394.2	30468.2	42120.1	37875.0	35548.4	31188.5
65°	6756.6	6960.5	7260.1	7884.8	10071.1	25209.6	44580.5	46021.1	43815.6	35153.2
67.5°	5086.5	5214.0	5609.2	6610.0	6979.7	15572.0	42030.9	54626.1	52841.4	39557.7
70°	3850.0	3958.3	4328.0	5698.5	6520.7	8350.1	33158.1	56544.7	57054.7	44497.7
72.5°	2651.6	2772.7	3187.1	4748.7	6208.4	6622.7	20811.5	51369.0	53300.3	46531.0
75°	1625.4	1708.3	1950.5	3601.4	6163.8	6476.1	11454.3	42094.6	44140.7	42993.4
77.5°	1147.3	1141.0	1185.6	2109.8	5341.5	6514.3	7062.5	30844.3	32833.0	31685.7
80°	835.0	841.4	886.0	1262.1	3626.9	6622.7	5564.6	20658.5	21251.3	16521.7
82.5°	503.6	529.1	637.4	854.1	2179.9	5978.9	5143.9	11479.8	10740.4	5303.3
85°	267.7	267.7	376.1	541.8	1160.1	4461.9	4952.7	5462.6	4576.6	1644.5
87.5°	63.7	63.7	108.4	216.7	465.3	2135.3	3378.3	2173.6	1740.1	554.5
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°
13328.3	0°	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3	13328.3
13500.4	2.5°	13474.9	13398.4	13494.0	13302.8	13149.8	13156.2	12920.3	12907.6	12875.7	12710.0
13557.7	5°	13627.8	13564.1	13455.7	13245.4	12907.6	12569.7	12365.8	12104.4	11996.1	11938.7
13602.4	7.5°	13774.5	13659.7	13347.4	13054.2	12531.5	11894.1	11524.4	11173.8	10727.6	10676.6
13729.8	10°	13812.7	13570.5	13168.9	12544.2	11849.5	11141.9	10300.6	9650.4	9306.2	9038.5
13787.2	12.5°	13755.3	13653.3	12882.1	12078.9	11027.2	9918.1	8936.5	8018.6	7381.2	7049.8
13698.0	15°	13749.0	13570.5	12563.4	11371.4	10026.5	8579.6	7183.6	6080.9	5411.6	5137.5
13678.8	17.5°	13755.3	13328.3	12187.3	10657.5	8847.3	6890.4	5354.3	4449.1	4079.4	4041.2
13729.8	20°	13627.8	13149.8	11792.1	9816.1	7368.5	5175.8	3888.2	3518.5	3518.5	3569.5
13621.5	22.5°	13513.1	12882.1	11167.4	8777.1	5864.2	3748.0	3161.6	3053.2	3174.3	3263.5
13615.1	25°	13353.8	12659.0	10530.0	7699.9	4461.9	3021.3	2747.2	2772.7	2887.5	3046.8
13468.5	27.5°	13124.3	12270.2	9771.5	6450.6	3320.9	2607.0	2536.9	2549.6	2670.8	2740.9
13270.9	30°	12863.0	11875.0	9070.4	5207.6	2632.5	2390.3	2383.9	2415.8	2434.9	2473.2
13213.5	32.5°	12531.5	11352.3	8324.6	4047.6	2371.2	2269.2	2243.7	2224.6	2243.7	2237.3
13035.1	35°	12295.7	11071.8	7566.1	3085.1	2224.6	2160.8	2141.7	2109.8	2084.3	2046.1
13035.1	37.5°	12231.9	10791.4	6769.3	2517.8	2109.8	2078.0	2014.2	1956.9	1925.0	1905.9
13315.5	40°	12193.7	10606.5	5991.7	2211.8	2014.2	1982.3	1905.9	1829.4	1797.5	1778.4
13736.2	42.5°	12327.5	10504.5	5201.3	2058.8	1931.4	1874.0	1791.1	1701.9	1695.5	1682.8
14507.5	45°	12799.2	10632.0	4468.3	1950.5	1848.5	1752.9	1644.5	1599.9	1593.5	1580.8
15788.7	47.5°	13870.1	10950.7	3843.6	1880.4	1759.3	1676.4	1561.7	1497.9	1491.5	1485.2
17713.7	50°	15348.9	11932.3	3320.9	1797.5	1701.9	1587.2	1478.8	1408.7	1395.9	1370.4
20276.0	52.5°	17669.0	13583.2	3008.6	1752.9	1599.9	1504.3	1389.6	1313.1	1281.2	1255.7
23189.0	55°	20282.4	15629.3	2951.2	1676.4	1491.5	1402.3	1300.3	1223.8	1192.0	1160.1
25923.5	57.5°	23259.1	18338.3	3359.2	1625.4	1415.1	1300.3	1185.6	1115.5	1090.0	1058.1
28556.0	60°	26031.9	21040.9	4627.6	1548.9	1344.9	1204.7	1090.0	1019.9	988.0	956.1
31794.1	62.5°	29238.0	24387.3	6775.7	1548.9	1281.2	1102.7	988.0	937.0	917.9	886.0
35076.7	65°	33030.6	27848.5	8343.7	1644.5	1262.1	1013.5	892.4	841.4	822.3	803.1
37715.6	67.5°	35918.1	29837.2	7177.2	1899.5	1344.9	937.0	796.8	764.9	752.1	733.0
39487.6	70°	36224.1	28626.1	4328.0	2052.5	1427.8	860.5	713.9	682.0	682.0	662.9
37588.1	72.5°	33476.8	25400.8	2913.0	1829.4	1293.9	771.3	631.0	605.5	592.8	580.0
32884.0	75°	28014.2	21544.5	2301.1	1459.7	994.4	637.4	548.2	522.7	503.6	497.2
22315.8	77.5°	18816.4	14003.9	1701.9	1141.0	733.0	516.3	458.9	433.4	414.3	407.9
8802.6	80°	7228.2	5335.1	1096.3	828.6	516.3	407.9	363.3	337.8	325.1	306.0
2422.2	82.5°	2129.0	1727.4	611.9	509.9	331.5	280.5	261.3	242.2	223.1	204.0
898.7	85°	879.6	790.4	376.1	267.7	204.0	165.7	153.0	133.9	114.7	102.0
369.7	87.5°	407.9	337.8	172.1	102.0	70.1	38.2	19.1	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°
13328.3
12767.3
11964.2
10587.4
8936.5
6960.5
5137.5
4073.1
3588.6
3301.8
3034.1
2728.1
2466.8
2218.2
2039.7
1893.1
1784.8
1701.9
1593.5
1485.2
1370.4
1255.7
1147.3
1045.4
956.1
879.6
796.8
720.3
650.2
573.7
484.4
388.8
293.2
197.6
89.2
0.0
0.0

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