

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: P574979

Luminaire Tested: **EPH-VN-07-740-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574979
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

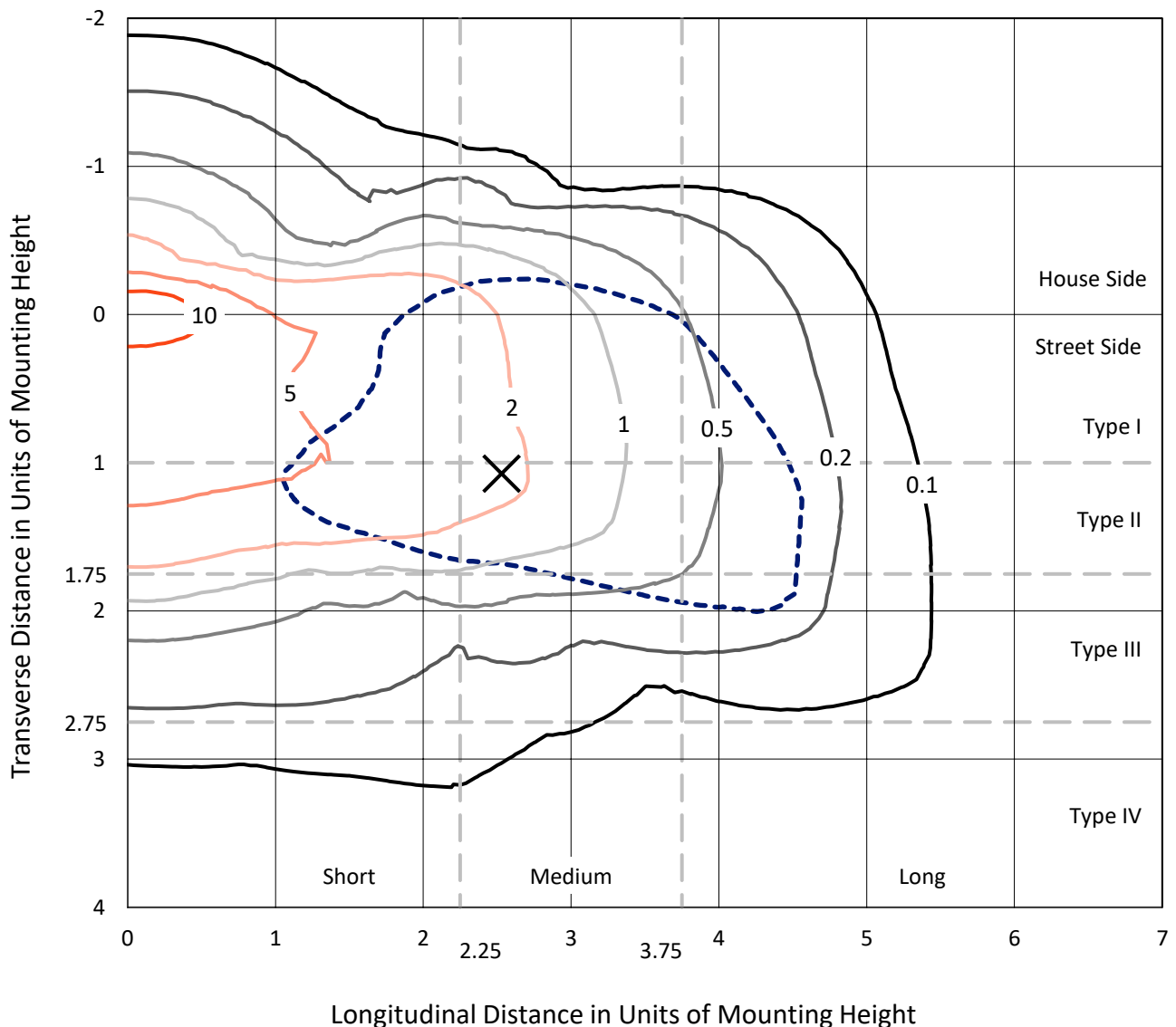
Lumens per Lamp: N/A
Luminaire Lumens: 56285.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

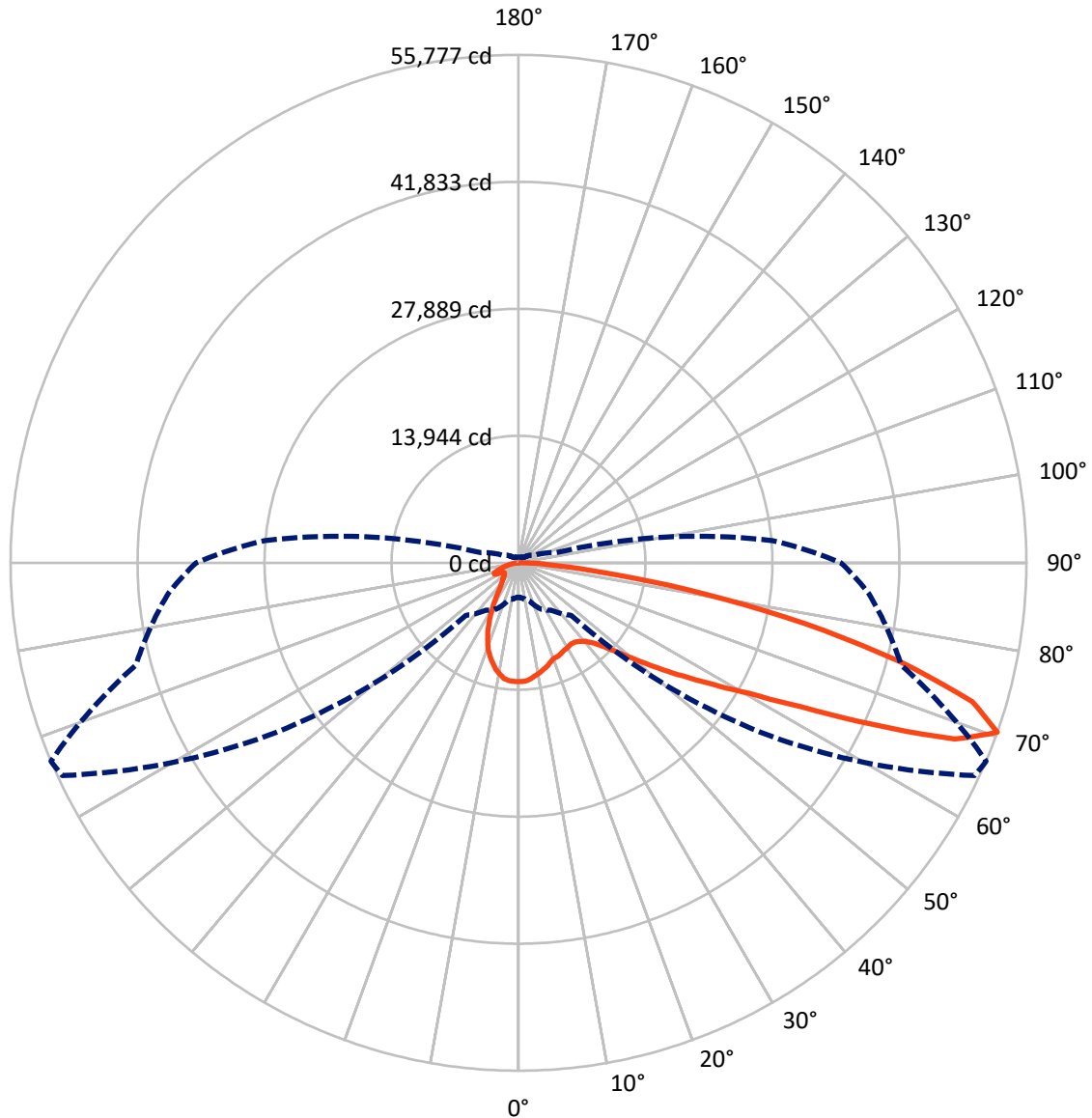
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.6 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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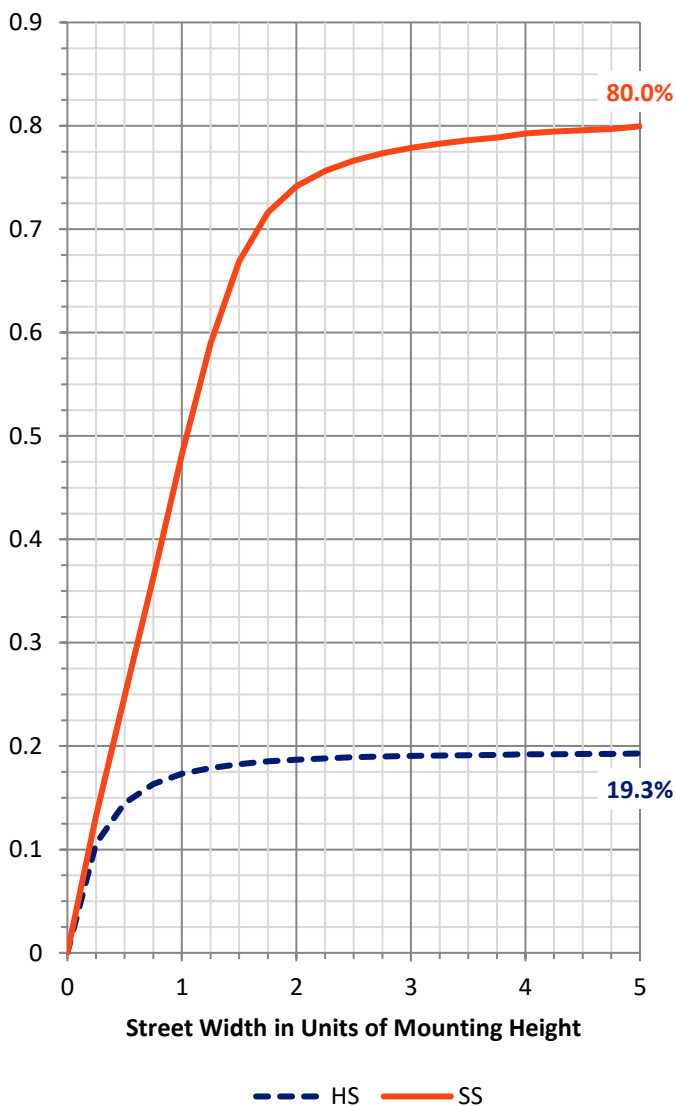
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10962.1	0.0	10962.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	45323.2	0.0	45323.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	56285.3	0.0	56285.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.9	2.0
10°-20°	2722.8	4.8
20°-30°	3676.9	6.5
30°-40°	4920.1	8.7
40°-50°	7234.9	12.9
50°-60°	11277.3	20.0
60°-70°	13891.8	24.7
70°-80°	9815.8	17.4
80°-90°	1608.9	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°	56285.3	100.0
0°-180°	56285.3	100.0

Coefficient of Utilization



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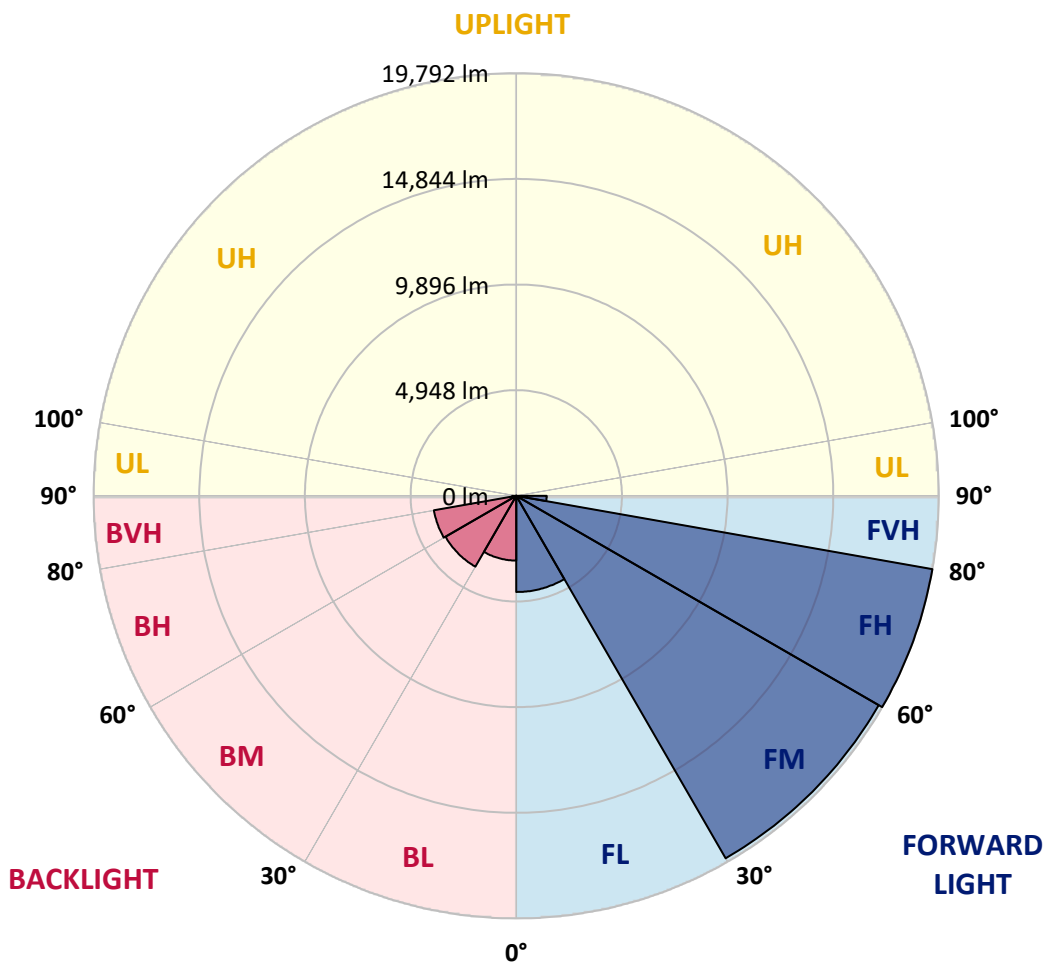
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4505.2	8.0			
FM (30°-60°)	19603.0	34.8			
FH (60°-80°)	19791.8	35.2			G5
FVH (80°-90°)	1423.3	2.5			G5
BL (0°-30°)	3031.4	5.4	B4/5000		
BM (30°-60°)	3829.3	6.8	B3/5000		
BH (60°-80°)	3915.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	185.6	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°	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9
2.5°	12132.6	12269.6	12319.5	12394.3	12587.4	12730.8	12818.0	12917.7	13036.1	13135.8
5°	11285.1	11359.9	11478.3	11559.3	11802.3	12188.6	12450.4	12874.1	12861.6	13017.4
7.5°	10462.5	10537.3	10593.4	10755.4	11104.4	11453.3	11933.2	12618.6	12568.8	12930.2
10°	9951.6	9895.5	9914.2	10188.4	10462.5	10855.1	11459.6	12157.5	12338.2	12899.0
12.5°	9471.7	9409.4	9559.0	9733.5	10070.0	10425.2	11148.0	11777.4	12051.5	12786.9
15°	9172.6	9129.0	9316.0	9390.7	9789.5	10213.3	10724.3	11490.7	11789.8	12649.8
17.5°	9004.4	9041.8	9110.3	9272.3	9527.8	9889.2	10450.1	11297.5	11428.4	12481.5
20°	9035.5	9079.2	9085.4	9153.9	9328.4	9608.8	10182.1	11091.9	11179.2	12450.4
22.5°	9284.8	9222.5	9247.4	9203.8	9253.6	9471.7	9976.5	10817.7	11154.2	12188.6
25°	9658.7	9571.4	9559.0	9409.4	9316.0	9378.3	9939.1	10749.2	10967.3	12107.6
27.5°	10319.2	10188.4	10188.4	9964.0	9583.9	9484.2	9833.2	10637.0	10830.2	12032.9
30°	10954.8	10954.8	10961.1	10643.2	10219.5	9727.2	9876.8	10593.4	10718.0	11808.5
32.5°	11727.5	11708.8	11677.7	11521.9	10867.6	10132.3	10088.7	10537.3	10599.6	11733.7
35°	12481.5	12431.7	12674.7	12537.6	11870.8	10923.7	10306.8	10562.2	10699.3	11621.6
37.5°	13048.6	13079.7	13584.5	13671.7	13098.4	11821.0	10923.7	10811.5	10942.4	11783.6
40°	13783.9	13908.5	14382.1	14675.0	14326.0	13005.0	11902.0	11229.0	11322.5	12145.0
42.5°	14749.7	14855.7	15460.1	15840.2	15740.5	14513.0	12867.9	12101.4	12026.6	12749.5
45°	16027.2	16045.9	16656.6	17180.0	17385.6	16089.5	14400.8	13204.4	13142.0	13790.1
47.5°	17547.7	17529.0	17909.1	18469.9	19024.5	17971.4	16164.3	14880.6	14656.3	15279.4
50°	19018.3	18937.3	19024.5	19741.1	20806.7	20326.9	18307.9	16930.7	16706.4	17049.1
52.5°	19828.3	19928.1	19691.3	20638.4	22701.0	23112.3	21149.4	19379.7	19186.5	19354.8
55°	19261.3	19466.9	19311.1	20208.5	23529.8	26508.4	24825.9	22215.0	21965.7	21903.4
57.5°	16849.7	17223.6	17254.8	18675.5	23243.2	29138.1	29998.0	25561.2	25187.4	24551.8
60°	12936.4	13310.3	13596.9	15279.4	20788.0	30708.4	35992.6	30322.0	29088.2	27443.1
62.5°	9066.7	9322.2	9608.8	10643.2	16027.2	29786.1	41177.2	37027.0	34752.6	30490.3
65°	6605.3	6804.7	7097.6	7708.3	9845.6	24645.2	43582.5	44990.8	42834.7	34366.2
67.5°	4972.7	5097.3	5483.6	6462.0	6823.4	15223.3	41089.9	53403.2	51658.4	38672.1
70°	3763.8	3869.7	4231.1	5570.9	6374.7	8163.1	32415.8	55278.8	55777.4	43501.5
72.5°	2592.3	2710.7	3115.7	4642.4	6069.4	6474.4	20345.6	50218.9	52107.1	45489.3
75°	1589.0	1670.0	1906.8	3520.7	6025.8	6331.1	11197.8	41152.2	43152.5	42030.9
77.5°	1121.7	1115.4	1159.0	2062.6	5221.9	6368.5	6904.4	30153.8	32098.0	30976.3
80°	816.3	822.5	866.2	1233.8	3545.7	6474.4	5440.0	20196.0	20775.5	16151.8
82.5°	492.3	517.2	623.1	835.0	2131.1	5845.1	5028.7	11222.8	10499.9	5184.5
85°	261.7	261.7	367.7	529.7	1134.1	4362.0	4841.8	5340.3	4474.2	1607.7
87.5°	62.3	62.3	105.9	211.9	454.9	2087.5	3302.6	2124.9	1701.2	542.1
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°
13029.9	0°	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9	13029.9
13198.1	2.5°	13173.2	13098.4	13191.9	13005.0	12855.4	12861.6	12631.1	12618.6	12587.4	12425.4
13254.2	5°	13322.8	13260.4	13154.5	12948.9	12618.6	12288.3	12088.9	11833.4	11727.5	11671.4
13297.8	7.5°	13466.1	13353.9	13048.6	12761.9	12251.0	11627.8	11266.4	10923.7	10487.5	10437.6
13422.5	10°	13503.5	13266.7	12874.1	12263.4	11584.2	10892.5	10070.0	9434.4	9097.9	8836.1
13478.5	12.5°	13447.4	13347.7	12593.7	11808.5	10780.3	9696.1	8736.4	7839.1	7216.0	6891.9
13391.3	15°	13441.2	13266.7	12282.1	11116.8	9802.0	8387.5	7022.8	5944.8	5290.5	5022.5
13372.6	17.5°	13447.4	13029.9	11914.5	10418.9	8649.2	6736.2	5234.4	4349.5	3988.1	3950.7
13422.5	20°	13322.8	12855.4	11528.1	9596.4	7203.5	5059.9	3801.2	3439.7	3439.7	3489.6
13316.5	22.5°	13210.6	12593.7	10917.4	8580.7	5732.9	3664.1	3090.8	2984.8	3103.2	3190.5
13310.3	25°	13054.8	12375.6	10294.3	7527.5	4362.0	2953.7	2685.7	2710.7	2822.8	2978.6
13167.0	27.5°	12830.5	11995.5	9552.8	6306.2	3246.6	2548.6	2480.1	2492.6	2611.0	2679.5
12973.8	30°	12575.0	11609.1	8867.3	5091.1	2573.6	2336.8	2330.5	2361.7	2380.4	2417.8
12917.7	32.5°	12251.0	11098.1	8138.2	3956.9	2318.1	2218.4	2193.5	2174.8	2193.5	2187.2
12743.2	35°	12020.4	10824.0	7396.7	3016.0	2174.8	2112.4	2093.8	2062.6	2037.7	2000.3
12743.2	37.5°	11958.1	10549.8	6617.8	2461.4	2062.6	2031.4	1969.1	1913.0	1881.9	1863.2
13017.4	40°	11920.7	10369.1	5857.5	2162.3	1969.1	1938.0	1863.2	1788.4	1757.3	1738.6
13428.7	42.5°	12051.5	10269.4	5084.8	2012.7	1888.1	1832.0	1751.0	1663.8	1657.6	1645.1
14182.7	45°	12512.7	10394.0	4368.2	1906.8	1807.1	1713.6	1607.7	1564.1	1557.9	1545.4
15435.2	47.5°	13559.5	10705.6	3757.5	1838.3	1719.9	1638.9	1526.7	1464.4	1458.2	1451.9
17317.1	50°	15005.2	11665.2	3246.6	1757.3	1663.8	1551.6	1445.7	1377.1	1364.7	1339.8
19822.1	52.5°	17273.5	13279.1	2941.2	1713.6	1564.1	1470.6	1358.4	1283.7	1252.5	1227.6
22669.9	55°	19828.3	15279.4	2885.1	1638.9	1458.2	1370.9	1271.2	1196.4	1165.3	1134.1
25343.1	57.5°	22738.4	17927.8	3284.0	1589.0	1383.4	1271.2	1159.0	1090.5	1065.6	1034.4
27916.7	60°	25449.1	20569.9	4524.0	1514.2	1314.8	1177.7	1065.6	997.0	965.9	934.7
31082.3	62.5°	28583.5	23841.4	6624.0	1514.2	1252.5	1078.0	965.9	916.0	897.3	866.2
34291.5	65°	32291.2	27225.0	8156.9	1607.7	1233.8	990.8	872.4	822.5	803.9	785.2
36871.3	67.5°	35114.0	29169.2	7016.6	1857.0	1314.8	916.0	778.9	747.8	735.3	716.6
38603.6	70°	35413.1	27985.3	4231.1	2006.5	1395.8	841.2	697.9	666.8	666.8	648.1
36746.6	72.5°	32727.4	24832.2	2847.8	1788.4	1265.0	754.0	616.9	592.0	579.5	567.1
32147.8	75°	27387.1	21062.2	2249.5	1427.0	972.1	623.1	535.9	511.0	492.3	486.1
21816.2	77.5°	18395.1	13690.4	1663.8	1115.4	716.6	504.7	448.7	423.7	405.0	398.8
8605.6	80°	7066.4	5215.7	1071.8	810.1	504.7	398.8	355.2	330.3	317.8	299.1
2367.9	82.5°	2081.3	1688.7	598.2	498.5	324.0	274.2	255.5	236.8	218.1	199.4
878.6	85°	859.9	772.7	367.7	261.7	199.4	162.0	149.6	130.9	112.2	99.7
361.4	87.5°	398.8	330.3	168.2	99.7	68.5	37.4	18.7	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°
13029.9
12481.5
11696.4
10350.4
8736.4
6804.7
5022.5
3981.9
3508.3
3227.9
2966.2
2667.0
2411.6
2168.5
1994.1
1850.7
1744.8
1663.8
1557.9
1451.9
1339.8
1227.6
1121.7
1022.0
934.7
859.9
778.9
704.1
635.6
560.8
473.6
380.1
286.6
193.2
87.2
0.0
0.0

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