

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: P574969

Luminaire Tested: **EPH-VN-03-735-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574969
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

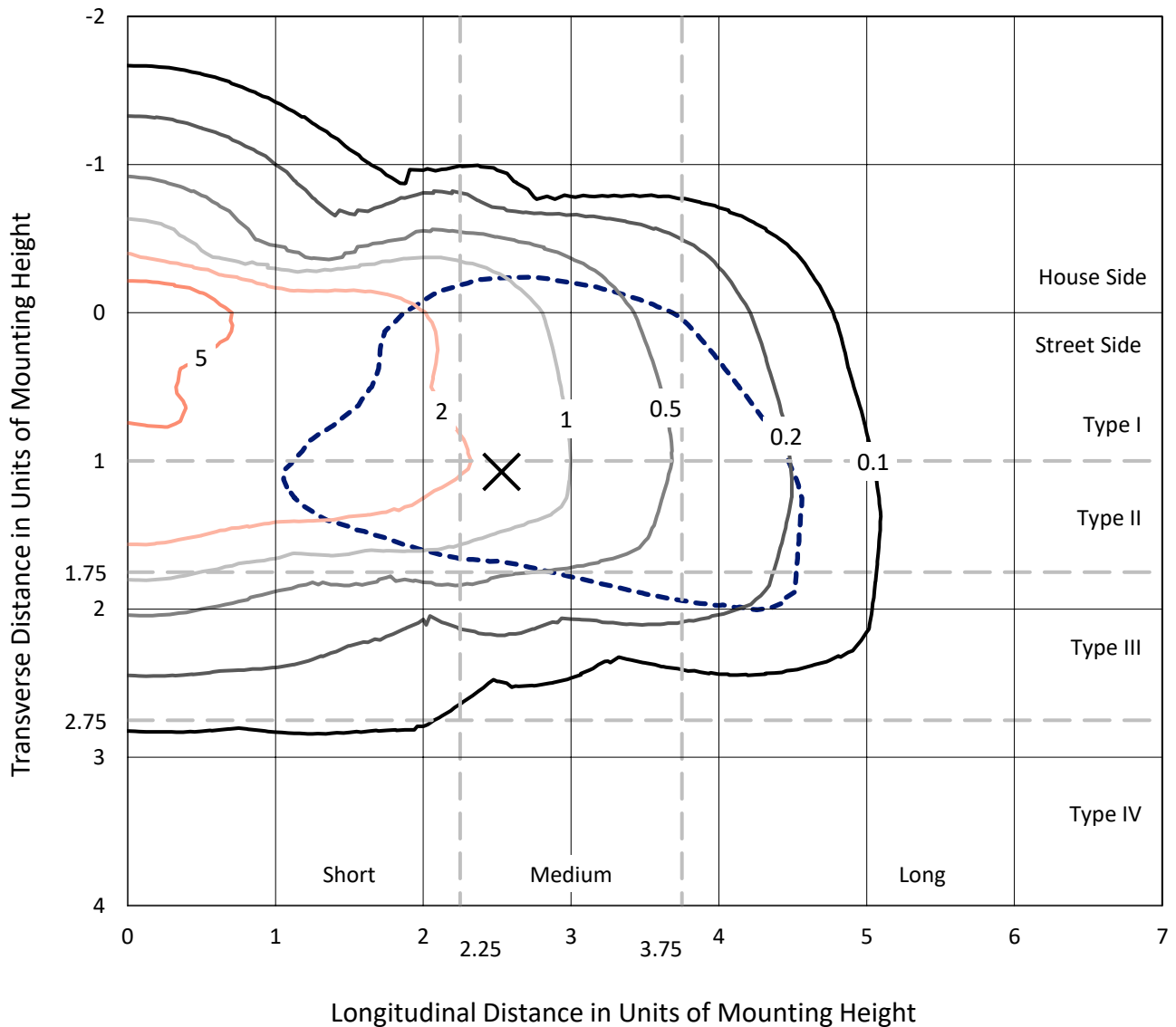
Lumens per Lamp: N/A
Luminaire Lumens: 26525.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

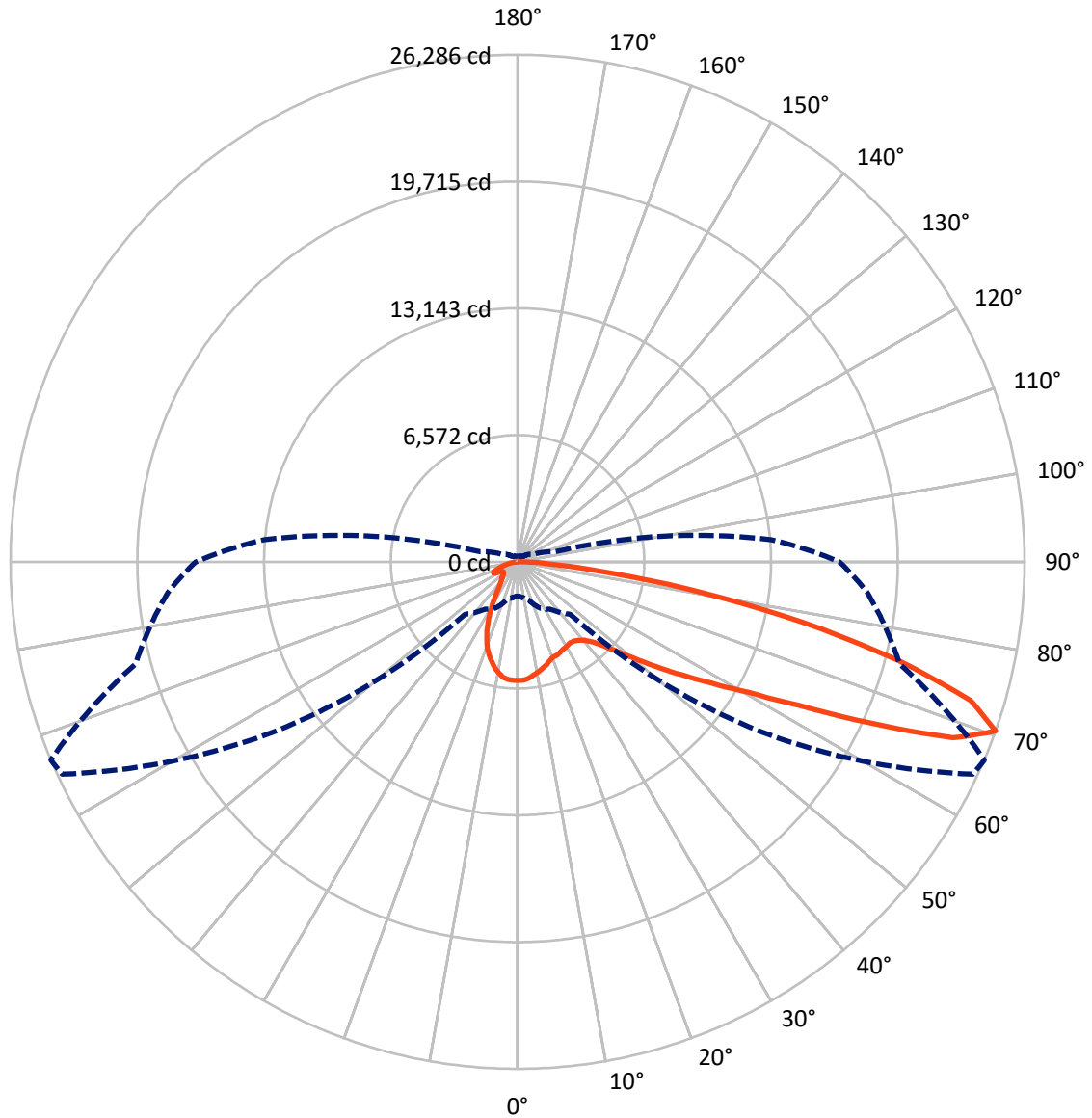
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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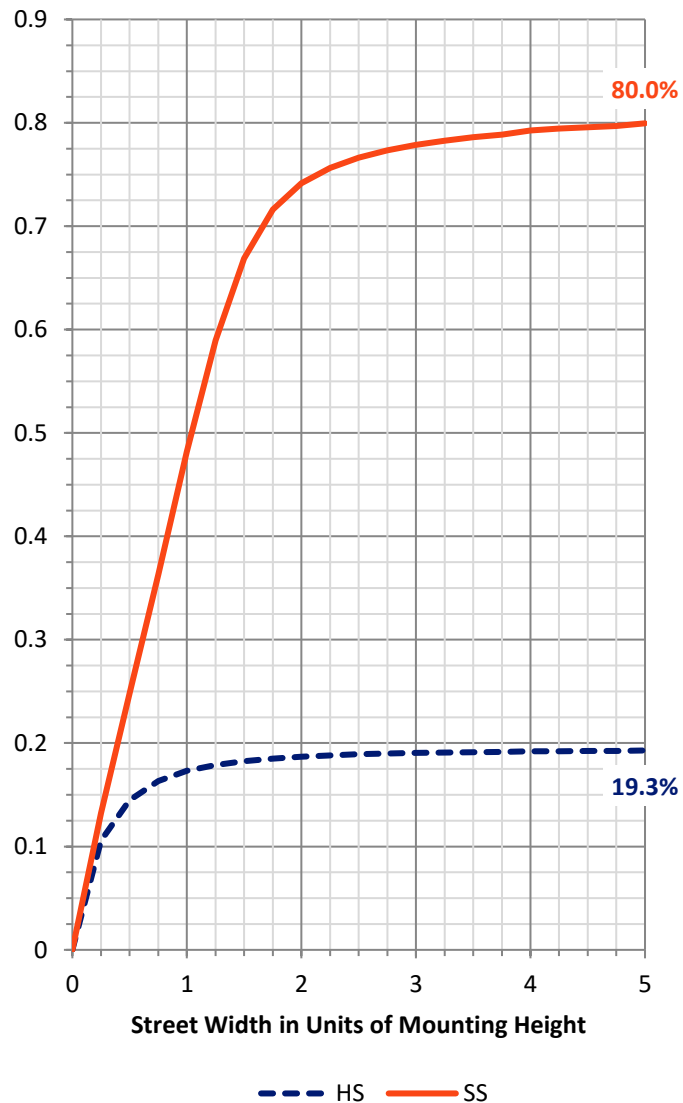
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5166.1	0.0	5166.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21359.4	0.0	21359.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	26525.5	0.0	26525.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	2.0
10°-20°	1283.2	4.8
20°-30°	1732.8	6.5
30°-40°	2318.7	8.7
40°-50°	3409.6	12.9
50°-60°	5314.7	20.0
60°-70°	6546.8	24.7
70°-80°	4625.9	17.4
80°-90°	758.2	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°	26525.5	100.0
0°-180°	26525.5	100.0

Coefficient of Utilization

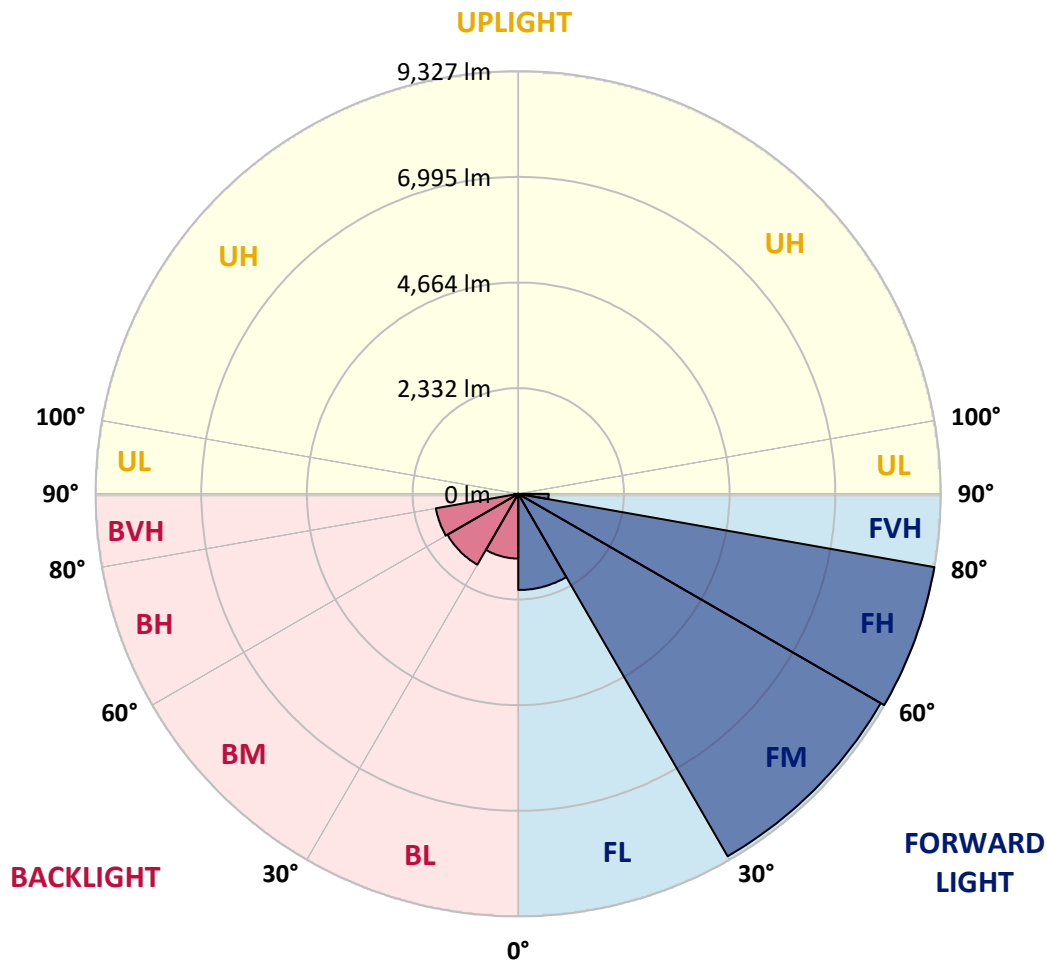


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.2	8.0			
FM (30°-60°)	9238.3	34.8			
FH (60°-80°)	9327.3	35.2			G4/12000
FVH (80°-90°)	670.7	2.5			G4/750
BL (0°-30°)	1428.6	5.4	B3/2500		
BM (30°-60°)	1804.6	6.8	B2/2500		
BH (60°-80°)	1845.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	87.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6
2.5°	5717.7	5782.3	5805.8	5841.0	5932.1	5999.6	6040.7	6087.7	6143.5	6190.5
5°	5318.3	5353.6	5409.3	5447.5	5562.1	5744.1	5867.5	6067.2	6061.3	6134.7
7.5°	4930.7	4965.9	4992.3	5068.7	5233.1	5397.6	5623.7	5946.8	5923.3	6093.6
10°	4689.9	4663.4	4672.2	4801.5	4930.7	5115.7	5400.5	5729.4	5814.6	6078.9
12.5°	4463.7	4434.4	4504.9	4587.1	4745.7	4913.0	5253.7	5550.3	5679.5	6026.0
15°	4322.8	4302.2	4390.3	4425.6	4613.5	4813.2	5054.0	5415.2	5556.2	5961.4
17.5°	4243.5	4261.1	4293.4	4369.8	4490.2	4660.5	4924.8	5324.2	5385.9	5882.2
20°	4258.2	4278.7	4281.7	4314.0	4396.2	4528.3	4798.5	5227.3	5268.4	5867.5
22.5°	4375.6	4346.3	4358.0	4337.5	4361.0	4463.7	4701.6	5098.1	5256.6	5744.1
25°	4551.8	4510.7	4504.9	4434.4	4390.3	4419.7	4684.0	5065.8	5168.5	5706.0
27.5°	4863.1	4801.5	4801.5	4695.7	4516.6	4469.6	4634.1	5012.9	5103.9	5670.7
30°	5162.7	5162.7	5165.6	5015.8	4816.1	4584.1	4654.6	4992.3	5051.1	5565.0
32.5°	5526.8	5518.0	5503.3	5429.9	5121.6	4775.0	4754.5	4965.9	4995.3	5529.8
35°	5882.2	5858.7	5973.2	5908.6	5594.4	5148.0	4857.3	4977.7	5042.3	5476.9
37.5°	6149.4	6164.1	6401.9	6443.1	6172.9	5570.9	5148.0	5095.1	5156.8	5553.2
40°	6495.9	6554.6	6777.8	6915.9	6751.4	6128.8	5609.0	5291.9	5335.9	5723.6
42.5°	6951.1	7001.0	7285.9	7465.0	7418.0	6839.5	6064.2	5703.0	5667.8	6008.4
45°	7553.1	7561.9	7849.7	8096.4	8193.3	7582.5	6786.6	6222.8	6193.4	6498.9
47.5°	8269.7	8260.9	8440.0	8704.3	8965.7	8469.4	7617.7	7012.8	6907.0	7200.7
50°	8962.7	8924.5	8965.7	9303.4	9805.5	9579.4	8627.9	7978.9	7873.2	8034.7
52.5°	9344.5	9391.5	9279.9	9726.3	10698.3	10892.1	9967.1	9133.0	9042.0	9121.3
55°	9077.2	9174.2	9100.7	9523.6	11088.9	12492.6	11699.7	10469.2	10351.8	10322.4
57.5°	7940.8	8117.0	8131.6	8801.2	10953.8	13731.9	14137.1	12046.2	11870.0	11570.5
60°	6096.5	6272.7	6407.8	7200.7	9796.7	14471.9	16962.2	14289.8	13708.4	12933.1
62.5°	4272.9	4393.3	4528.3	5015.8	7553.1	14037.3	19405.5	17449.7	16377.8	14369.1
65°	3112.9	3206.8	3344.9	3632.7	4639.9	11614.5	20539.1	21202.8	20186.7	16195.7
67.5°	2343.5	2402.2	2584.3	3045.3	3215.7	7174.3	19364.4	25167.3	24345.0	18225.0
70°	1773.7	1823.7	1994.0	2625.4	3004.2	3847.0	15276.6	26051.2	26286.1	20500.9
72.5°	1221.7	1277.5	1468.3	2187.8	2860.3	3051.2	9588.2	23666.6	24556.4	21437.7
75°	748.9	787.0	898.6	1659.2	2839.8	2983.7	5277.2	19393.8	20336.4	19807.8
77.5°	528.6	525.7	546.2	972.0	2460.9	3001.3	3253.8	14210.5	15126.8	14598.2
80°	384.7	387.6	408.2	581.5	1671.0	3051.2	2563.7	9517.7	9790.9	7611.9
82.5°	232.0	243.7	293.7	393.5	1004.3	2754.6	2369.9	5288.9	4948.3	2443.3
85°	123.3	123.3	173.3	249.6	534.5	2055.7	2281.8	2516.7	2108.5	757.7
87.5°	29.4	29.4	49.9	99.8	214.4	983.8	1556.4	1001.4	801.7	255.5
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°
6140.6	0°	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6	6140.6
6219.9	2.5°	6208.1	6172.9	6216.9	6128.8	6058.4	6061.3	5952.6	5946.8	5932.1	5855.7
6246.3	5°	6278.6	6249.2	6199.3	6102.4	5946.8	5791.1	5697.1	5576.7	5526.8	5500.4
6266.9	7.5°	6346.1	6293.3	6149.4	6014.3	5773.5	5479.8	5309.5	5148.0	4942.4	4918.9
6325.6	10°	6363.8	6252.2	6067.2	5779.4	5459.3	5133.3	4745.7	4446.1	4287.5	4164.2
6352.0	12.5°	6337.3	6290.3	5935.0	5565.0	5080.4	4569.5	4117.2	3694.3	3400.7	3248.0
6310.9	15°	6334.4	6252.2	5788.2	5239.0	4619.4	3952.8	3309.6	2801.6	2493.2	2367.0
6302.1	17.5°	6337.3	6140.6	5614.9	4910.1	4076.1	3174.5	2466.8	2049.8	1879.5	1861.8
6325.6	20°	6278.6	6058.4	5432.8	4522.5	3394.8	2384.6	1791.4	1621.0	1621.0	1644.5
6275.7	22.5°	6225.7	5935.0	5145.0	4043.8	2701.7	1726.8	1456.6	1406.7	1462.5	1503.6
6272.7	25°	6152.3	5832.2	4851.4	3547.5	2055.7	1392.0	1265.7	1277.5	1330.3	1403.7
6205.2	27.5°	6046.6	5653.1	4501.9	2971.9	1530.0	1201.1	1168.8	1174.7	1230.5	1262.8
6114.1	30°	5926.2	5471.0	4178.9	2399.3	1212.8	1101.3	1098.3	1113.0	1121.8	1139.4
6087.7	32.5°	5773.5	5230.2	3835.3	1864.8	1092.4	1045.5	1033.7	1024.9	1033.7	1030.8
6005.5	35°	5664.8	5101.0	3485.8	1421.3	1024.9	995.5	986.7	972.0	960.3	942.7
6005.5	37.5°	5635.5	4971.8	3118.7	1160.0	972.0	957.4	928.0	901.6	886.9	878.1
6134.7	40°	5617.9	4886.6	2760.5	1019.0	928.0	913.3	878.1	842.8	828.1	819.3
6328.5	42.5°	5679.5	4839.6	2396.3	948.5	889.8	863.4	825.2	784.1	781.2	775.3
6683.9	45°	5896.8	4898.4	2058.6	898.6	851.6	807.6	757.7	737.1	734.2	728.3
7274.1	47.5°	6390.2	5045.2	1770.8	866.3	810.5	772.3	719.5	690.1	687.2	684.2
8161.0	50°	7071.5	5497.4	1530.0	828.1	784.1	731.2	681.3	649.0	643.1	631.4
9341.5	52.5°	8140.5	6258.0	1386.1	807.6	737.1	693.1	640.2	605.0	590.3	578.5
10683.6	55°	9344.5	7200.7	1359.7	772.3	687.2	646.1	599.1	563.8	549.2	534.5
11943.4	57.5°	10715.9	8448.8	1547.6	748.9	651.9	599.1	546.2	513.9	502.2	487.5
13156.3	60°	11993.4	9693.9	2132.0	713.6	619.6	555.0	502.2	469.9	455.2	440.5
14648.1	62.5°	13470.5	11235.7	3121.7	713.6	590.3	508.0	455.2	431.7	422.9	408.2
16160.5	65°	15217.8	12830.3	3844.1	757.7	581.5	466.9	411.1	387.6	378.8	370.0
17376.3	67.5°	16548.1	13746.6	3306.7	875.1	619.6	431.7	367.1	352.4	346.5	337.7
18192.7	70°	16689.1	13188.6	1994.0	945.6	657.8	396.5	328.9	314.2	314.2	305.4
17317.5	72.5°	15423.4	11702.6	1342.1	842.8	596.1	355.3	290.7	279.0	273.1	267.2
15150.3	75°	12906.7	9925.9	1060.1	672.5	458.1	293.7	252.6	240.8	232.0	229.1
10281.3	77.5°	8669.1	6451.9	784.1	525.7	337.7	237.9	211.4	199.7	190.9	187.9
4055.5	80°	3330.2	2458.0	505.1	381.8	237.9	187.9	167.4	155.6	149.8	141.0
1115.9	82.5°	980.8	795.8	281.9	234.9	152.7	129.2	120.4	111.6	102.8	94.0
414.1	85°	405.3	364.1	173.3	123.3	94.0	76.4	70.5	61.7	52.9	47.0
170.3	87.5°	187.9	155.6	79.3	47.0	32.3	17.6	8.8	2.9	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



<u>180°</u>
6140.6
5882.2
5512.1
4877.8
4117.2
3206.8
2367.0
1876.5
1653.3
1521.2
1397.9
1256.9
1136.5
1022.0
939.7
872.2
822.3
784.1
734.2
684.2
631.4
578.5
528.6
481.6
440.5
405.3
367.1
331.8
299.5
264.3
223.2
179.1
135.1
91.0
41.1
0.0
0.0

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