

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: P574724

Luminaire Tested: **EPH-VN-04-730-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

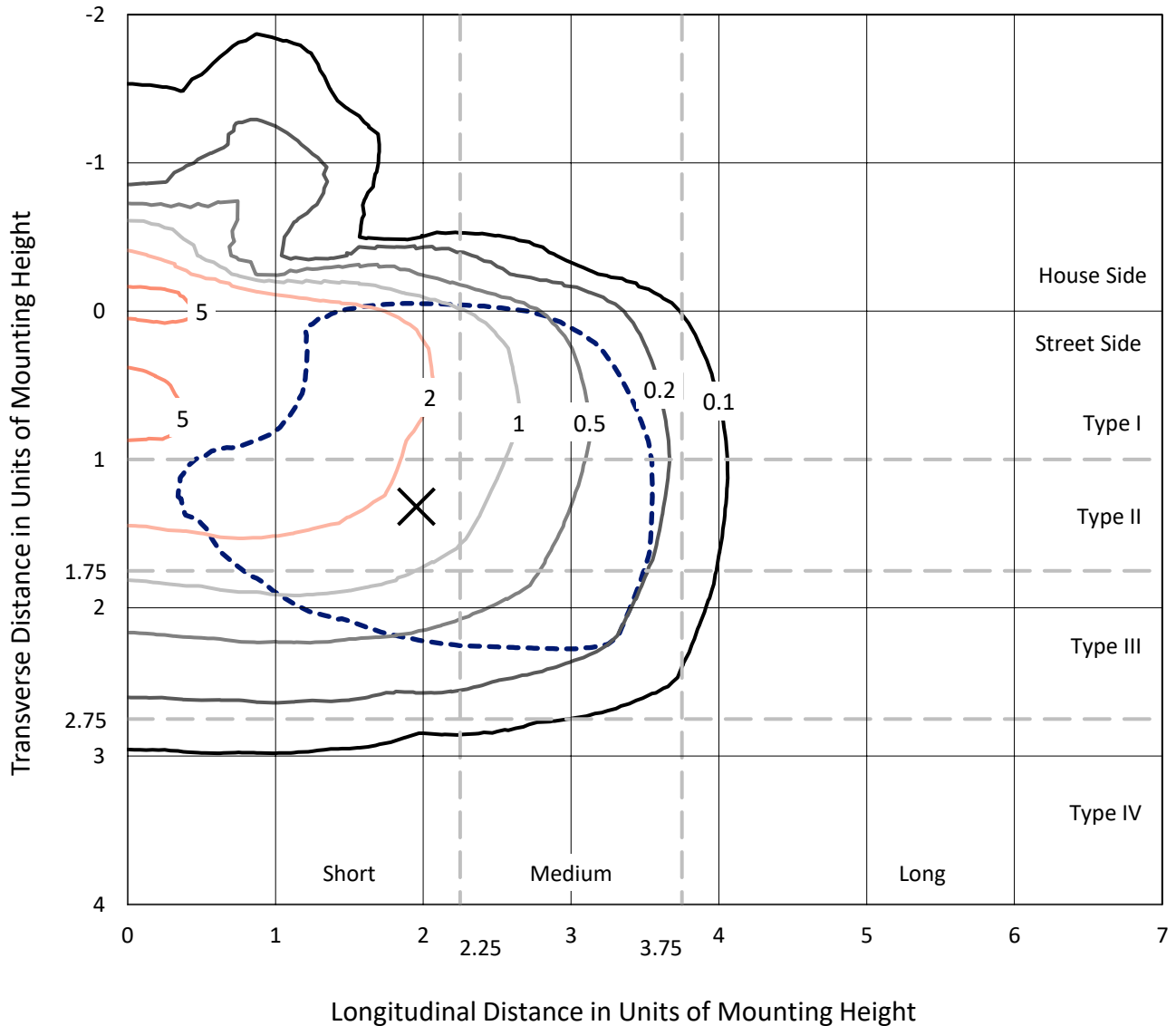
Lumens per Lamp: N/A
Luminaire Lumens: 31284.1 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8
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

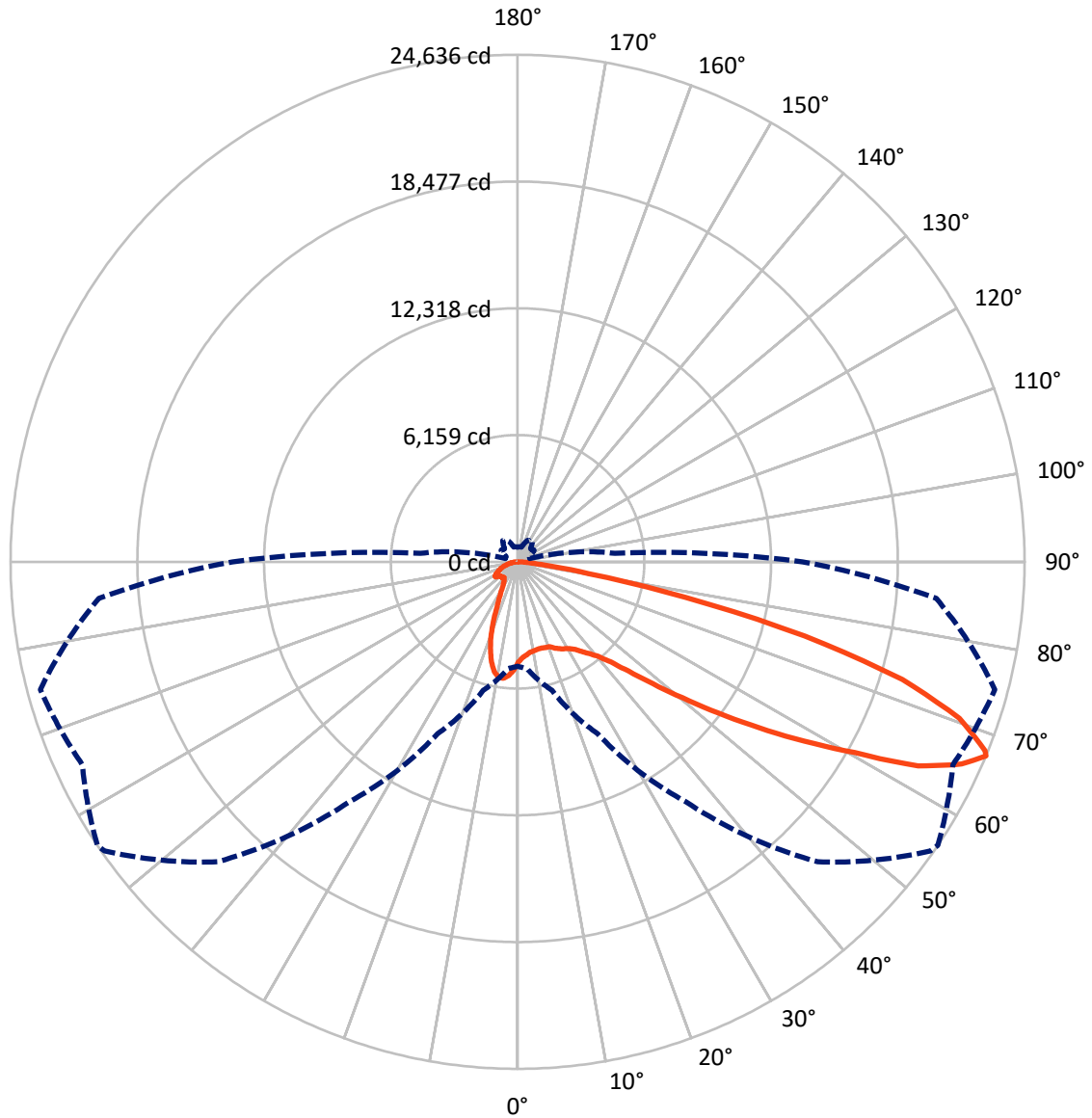
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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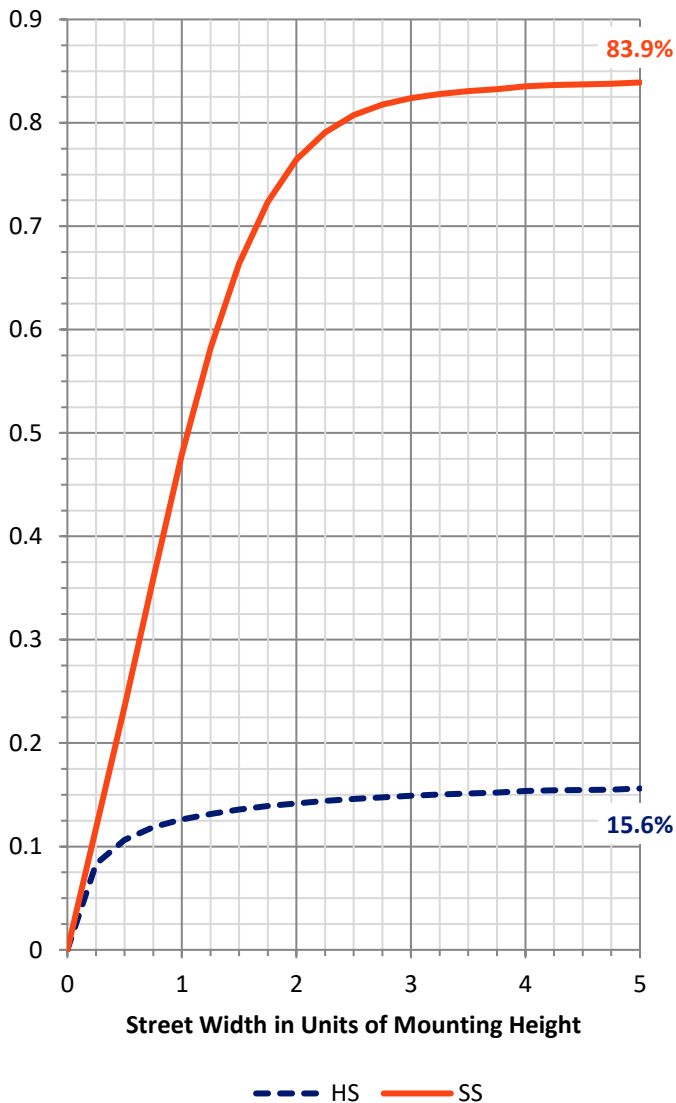
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4952.6	0.0	4952.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	26331.5	0.0	26331.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	31284.1	0.0	31284.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	1.5
10°-20°	1279.3	4.1
20°-30°	2006.4	6.4
30°-40°	2864.1	9.2
40°-50°	4322.8	13.8
50°-60°	6881.2	22.0
60°-70°	8797.0	28.1
70°-80°	4289.1	13.7
80°-90°	375.2	1.2
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°	31284.1	100.0
0°-180°	31284.1	100.0



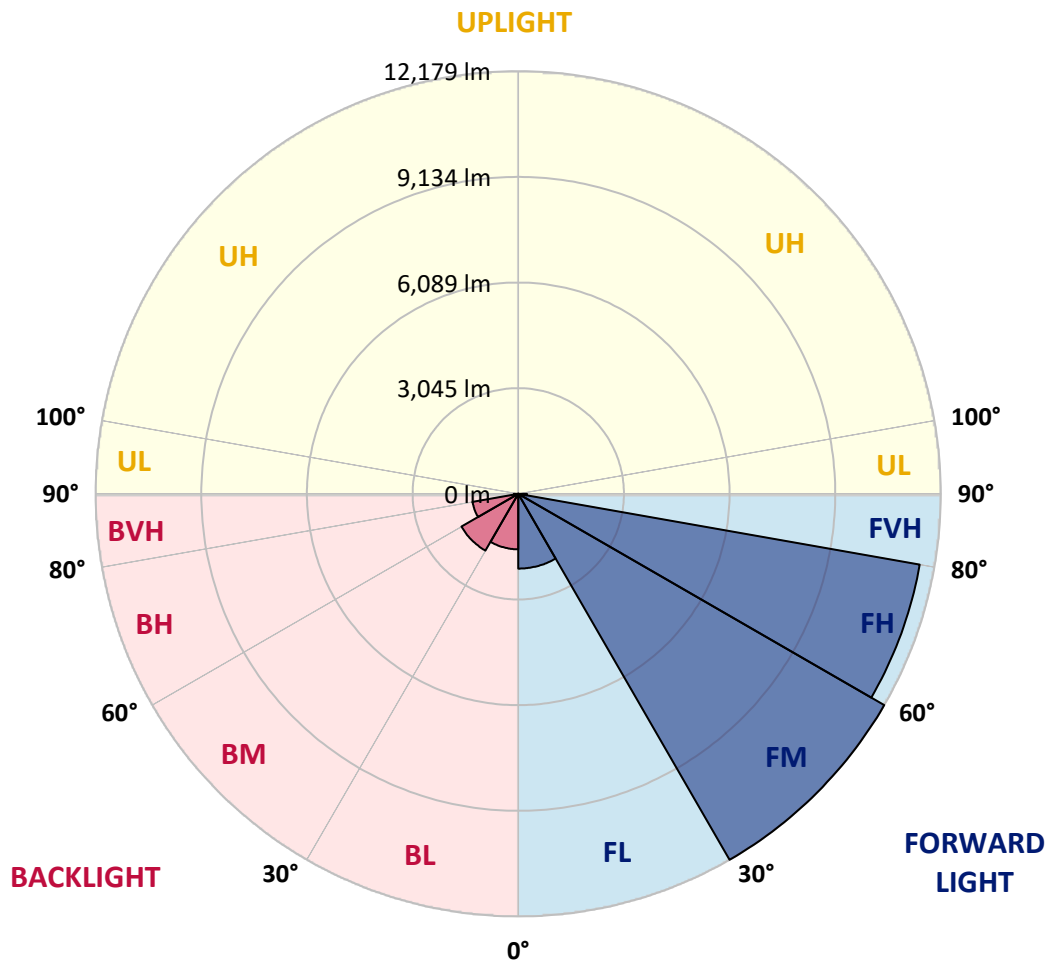
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.8	6.9			
FM (30°-60°)	12178.6	38.9			
FH (60°-80°)	11747.9	37.6			G4/12000
FVH (80°-90°)	249.2	0.8			G3/500
BL (0°-30°)	1598.8	5.1	B3/2500		
BM (30°-60°)	1889.5	6.0	B2/2500		
BH (60°-80°)	1338.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	126.0	0.4			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
2.5°	4471.6	4453.2	4475.2	4453.2	4552.3	4611.0	4629.3	4655.0	4746.7	4834.7
5°	4284.5	4203.8	4291.8	4321.2	4328.5	4427.5	4530.3	4548.6	4596.3	4739.3
7.5°	3972.7	4064.4	4031.4	4119.4	4211.1	4310.2	4478.9	4431.2	4607.3	4743.0
10°	3906.7	3914.0	3950.7	3983.7	4064.4	4192.8	4427.5	4398.2	4577.9	4867.7
12.5°	3972.7	3972.7	3961.7	3936.0	4027.7	4152.4	4339.5	4354.2	4636.6	4904.4
15°	4203.8	4247.8	4130.4	4148.8	4112.1	4152.4	4317.5	4350.5	4658.6	4933.8
17.5°	4768.7	4754.0	4614.6	4420.2	4258.8	4233.1	4346.8	4383.5	4636.6	5018.1
20°	5318.9	5289.6	5047.5	4845.7	4526.6	4376.2	4394.5	4398.2	4673.3	5073.1
22.5°	5931.5	6008.5	5744.4	5333.6	4937.4	4563.3	4489.9	4548.6	4757.7	5102.5
25°	6892.6	6727.5	6500.1	5960.9	5322.6	4853.1	4647.6	4677.0	4838.4	5175.9
27.5°	7585.9	7519.8	7164.0	6727.5	5861.8	5080.5	4732.0	4787.0	4985.1	5172.2
30°	8253.5	8253.5	8037.1	7384.1	6430.4	5462.0	4911.7	4886.1	4915.4	5164.9
32.5°	9034.8	8928.4	8616.6	8183.8	7145.7	5810.5	5054.8	5062.1	5062.1	5300.6
35°	9445.7	9618.1	9409.0	8704.7	7692.3	6390.0	5399.6	5344.6	5304.2	5451.0
37.5°	10047.3	10150.0	9929.9	9515.4	8370.9	6859.6	5704.1	5660.1	5425.3	5568.4
40°	10410.4	10392.1	10384.7	10194.0	9269.6	7413.5	6151.6	6037.9	5722.4	5982.9
42.5°	10615.8	10579.1	11030.3	10913.0	10116.9	8227.8	6712.8	6650.5	6302.0	6720.2
45°	10846.9	11118.4	11488.9	11819.0	11103.7	9372.3	7662.9	7574.9	7263.1	7795.0
47.5°	11048.7	11382.5	11855.7	12207.8	11995.1	10615.8	8836.7	8858.7	8653.3	9199.9
50°	11386.2	11419.2	12061.1	12772.7	12937.8	11764.0	10414.1	10377.4	10285.7	11052.3
52.5°	11283.4	11382.5	12193.2	13102.9	13374.3	12978.2	12108.8	12218.8	12097.8	13062.5
55°	9610.7	9907.9	12112.5	13451.4	14408.8	14350.1	14287.7	14214.3	14207.0	15322.2
57.5°	8851.4	9093.5	10670.8	13836.5	15516.6	15949.4	16352.9	16433.6	16430.0	17776.2
60°	8352.5	8602.0	10087.6	13627.4	16459.3	18044.0	18818.0	18829.0	18807.0	20399.0
62.5°	7376.8	7618.9	9078.8	12483.0	16719.7	19977.1	21701.2	21844.2	20835.5	22658.6
65°	6203.0	6401.0	7688.6	10733.2	16026.4	21206.0	23869.1	23700.4	22544.9	23949.8
67°	5073.1	5205.2	6459.7	9214.6	14214.3	20615.4	24496.4	24635.8	23333.5	24004.8
67.5°	4750.3	4871.4	6056.2	8697.3	13524.7	20167.9	24518.4	24496.4	23348.2	24015.8
70°	3297.7	3349.1	4126.7	5982.9	9962.9	17038.9	22728.3	22779.6	22368.8	22713.6
72.5°	2186.3	2263.3	2758.5	3770.9	5872.8	12398.6	18997.7	19547.9	19287.5	18623.5
75°	1408.6	1452.6	1804.8	2245.0	2890.6	7061.3	14034.6	14401.4	13803.5	11518.2
77.5°	788.7	836.4	1089.5	1364.6	1408.6	2938.2	7883.0	8337.9	7065.0	4893.4
80°	491.5	553.9	821.7	810.7	671.3	1078.5	3250.0	3481.1	2824.5	1683.7
82.5°	370.5	418.2	634.6	568.6	377.8	480.5	1217.8	1305.9	1034.4	649.3
85°	253.1	319.1	458.5	352.1	198.1	231.1	484.2	520.9	473.2	315.5
87.5°	91.7	135.7	238.4	176.1	88.0	69.7	157.7	176.1	168.7	143.1
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°
4867.7	0°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
4911.7	2.5°	4981.4	5032.8	5058.5	5208.9	5271.2	5260.2	5274.9	5296.9	5318.9	5348.3
4974.1	5°	5021.8	5179.5	5263.9	5440.0	5557.4	5506.0	5572.0	5553.7	5528.0	5524.3
5087.8	7.5°	5153.8	5355.6	5608.7	5656.4	5707.7	5579.4	5469.3	5318.9	5282.2	5153.8
5183.2	10°	5388.6	5553.7	5861.8	5880.2	5652.7	5322.6	5076.8	4765.0	4761.3	4574.3
5329.9	12.5°	5612.4	5799.5	6048.9	5942.5	5399.6	4948.4	4548.6	4207.4	4064.4	3969.0
5418.0	15°	5751.8	6059.9	6192.0	5733.4	4955.8	4346.8	3829.6	3462.8	3316.1	3246.4
5528.0	17.5°	5880.2	6309.3	6250.6	5366.6	4409.2	3726.9	3110.6	2791.5	2751.2	2699.8
5704.1	20°	6056.2	6401.0	6041.6	4889.7	3789.3	2927.2	2534.7	2380.7	2417.4	2439.4
5722.4	22.5°	6221.3	6448.7	5777.4	4368.8	2993.3	2318.3	2123.9	2156.9	2211.9	2285.3
5766.4	25°	6294.7	6525.8	5421.6	3649.9	2278.0	1951.5	1907.5	1962.5	2054.2	2057.9
5828.8	27.5°	6342.4	6470.7	4992.4	2949.2	1801.1	1705.7	1771.7	1812.1	1823.1	1867.1
5960.9	30°	6426.7	6357.0	4449.5	2109.2	1511.3	1515.0	1599.3	1599.3	1599.3	1632.4
6092.9	32.5°	6573.4	6280.0	3814.9	1540.7	1302.2	1419.6	1397.6	1390.3	1375.6	1335.2
6261.7	35°	6665.2	6070.9	3011.6	1140.8	1170.2	1302.2	1294.9	1181.2	990.4	895.0
6690.8	37.5°	6855.9	5964.5	2215.6	880.4	1093.1	1243.5	1203.2	928.1	719.0	627.3
7222.7	40°	7266.7	5894.8	1533.3	770.3	1041.8	1214.2	1074.8	792.3	550.2	388.8
8044.4	42.5°	7769.3	5898.5	1041.8	726.3	1045.4	1276.5	1034.4	678.6	388.8	311.8
9141.2	45°	8444.2	5843.5	715.3	726.3	1111.5	1379.3	1060.1	616.3	377.8	396.2
10516.8	47.5°	9170.5	5891.2	531.9	660.3	1122.5	1382.9	968.4	605.3	363.2	458.5
12013.4	50°	10017.9	5938.8	440.2	608.9	1126.1	1338.9	891.4	590.6	377.8	484.2
13730.1	52.5°	10890.9	6089.2	374.2	575.9	1170.2	1320.6	891.4	612.6	377.8	421.8
15916.4	55°	12193.2	6474.4	539.2	719.0	1331.6	1441.6	1096.8	858.4	528.2	542.9
18011.0	57.5°	13631.1	6870.6	601.6	755.7	1368.2	1298.5	1181.2	946.4	557.6	561.2
19639.6	60°	14577.5	6885.2	597.9	737.3	1280.2	1122.5	1155.5	997.8	568.6	480.5
20648.4	62.5°	14955.3	6437.7	623.6	737.3	1192.2	1049.1	1184.8	1074.8	586.9	601.6
20934.5	65°	14526.1	5513.3	601.6	660.3	1049.1	939.1	1192.2	1089.5	641.9	605.3
20421.0	67°	13854.9	4750.3	612.6	627.3	975.7	891.4	1254.5	1144.5	744.6	726.3
20153.2	67.5°	13664.1	4548.6	608.9	608.9	950.1	876.7	1269.2	1144.5	759.3	752.0
17787.2	70°	12042.8	3686.6	623.6	601.6	840.0	832.7	1349.9	1206.8	873.0	880.4
13066.2	72.5°	9166.9	2795.2	619.9	601.6	730.0	796.0	1360.9	1247.2	950.1	880.4
7318.1	75°	5208.9	1672.7	546.6	524.6	575.9	693.3	1272.9	1188.5	924.4	788.7
2923.6	77.5°	2153.2	862.0	502.5	473.2	476.9	564.9	1060.1	1107.8	880.4	671.3
975.7	80°	803.3	517.2	403.5	377.8	366.8	414.5	755.7	884.0	752.0	550.2
429.2	82.5°	418.2	322.8	275.1	275.1	249.4	264.1	407.2	586.9	568.6	377.8
172.4	85°	212.8	183.4	157.7	154.1	139.4	124.7	205.4	348.5	326.5	209.1
77.0	87.5°	113.7	102.7	66.0	62.4	51.4	33.0	36.7	69.7	113.7	91.7
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>
4867.7
5377.6
5557.4
5197.9
4566.9
3947.0
3231.7
2725.5
2413.7
2245.0
2094.6
1907.5
1669.0
1313.2
939.1
623.6
377.8
304.5
403.5
509.9
561.2
432.8
572.2
542.9
495.2
608.9
594.3
715.3
737.3
814.3
781.3
704.3
634.6
502.5
297.1
172.4
66.0
0.0

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