

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: P574780

Luminaire Tested: **EPH-VN-08-740-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574780
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

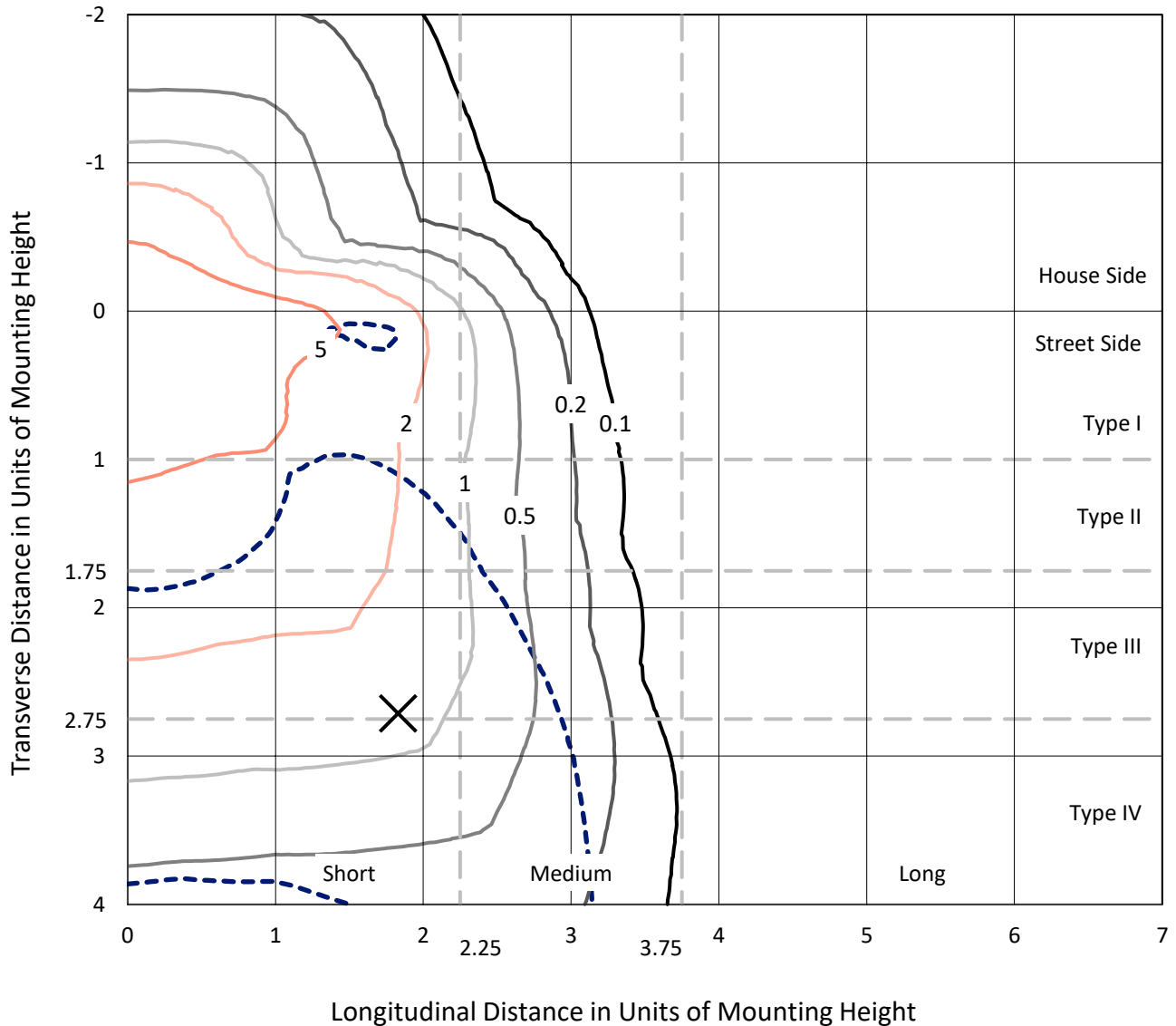
Lumens per Lamp: N/A
Luminaire Lumens: 57113 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

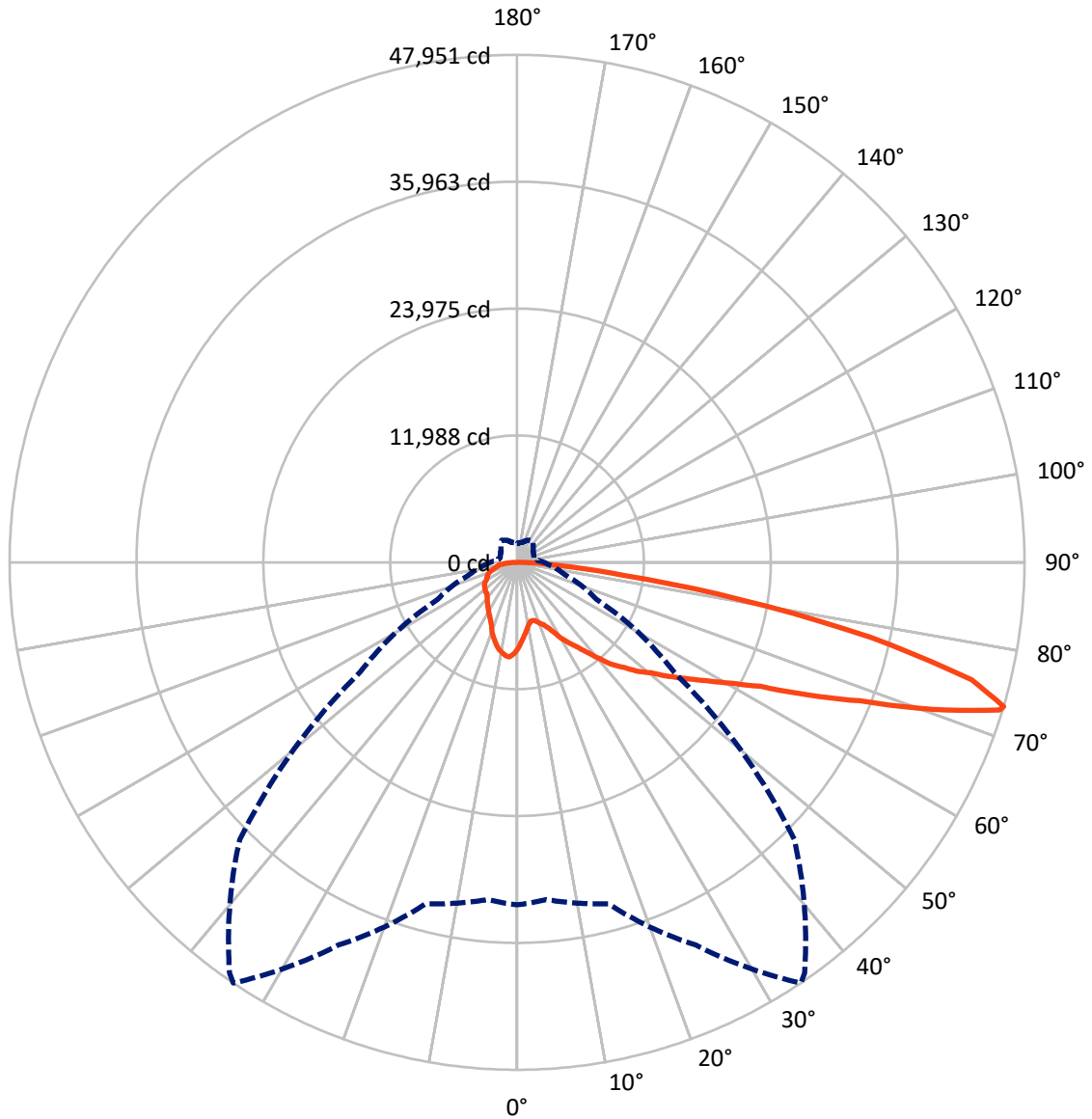
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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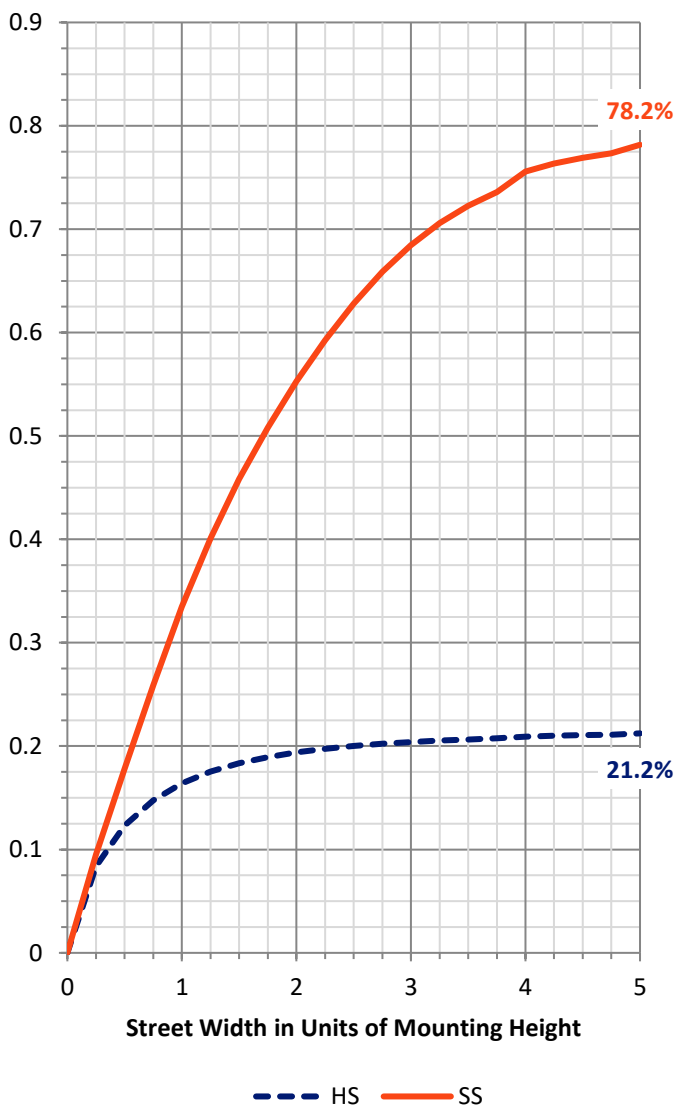
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12337.1	0.0	12337.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	44775.9	0.0	44775.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	57113.0	0.0	57113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.7	1.3
10°-20°	2114.9	3.7
20°-30°	3480.9	6.1
30°-40°	5205.6	9.1
40°-50°	7717.1	13.5
50°-60°	11121.2	19.5
60°-70°	14192.1	24.8
70°-80°	11043.8	19.3
80°-90°	1481.6	2.6
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°	57113.0	100.0
0°-180°	57113.0	100.0

Coefficient of Utilization

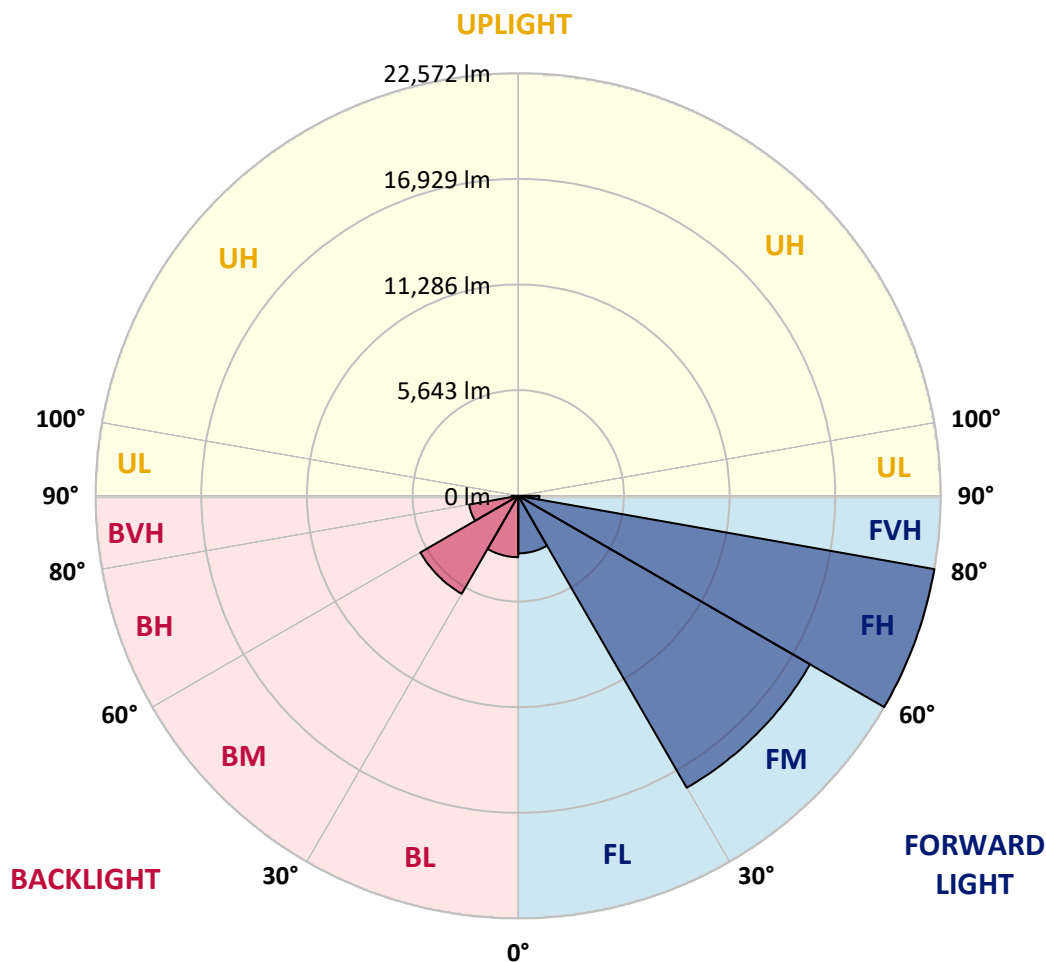


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3073.6	5.4			
FM (30°-60°)	18002.4	31.5			
FH (60°-80°)	22572.1	39.5			G5
FVH (80°-90°)	1127.8	2.0			G5
BL (0°-30°)	3277.9	5.7	B4/5000		
BM (30°-60°)	6041.5	10.6	B4/8500		
BH (60°-80°)	2663.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	353.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
2.5°	7336.6	7360.8	7439.3	7457.4	7541.9	7493.6	7596.3	7777.4	7880.1	8031.0
5°	6756.9	6654.3	6702.6	6889.8	6986.4	7010.6	7119.3	7427.2	7620.4	7843.9
7.5°	6074.6	6056.5	6153.1	6273.9	6467.1	6485.2	6726.8	6998.5	7397.0	7892.2
10°	5609.7	5688.2	5742.5	5869.3	6002.1	6002.1	6310.1	6781.1	7234.0	7711.0
12.5°	5585.5	5537.2	5549.3	5615.7	5712.3	5833.1	6122.9	6545.6	7119.3	7674.8
15°	5664.0	5682.1	5573.4	5658.0	5694.2	5736.5	6056.5	6533.5	7046.8	7801.6
17.5°	6080.6	5978.0	5808.9	5730.4	5857.2	5857.2	6074.6	6449.0	7058.9	7868.0
20°	6406.7	6406.7	6129.0	6044.4	6135.0	6116.9	6267.8	6545.6	7119.3	8000.9
22.5°	6956.2	7034.7	6575.8	6400.7	6394.6	6443.0	6575.8	6811.3	7288.3	8188.0
25°	7747.2	7765.4	7234.0	7052.8	6859.6	6938.1	6962.3	7197.7	7439.3	8405.4
27.5°	8628.8	8616.8	8127.7	7674.8	7548.0	7566.1	7433.2	7590.2	7662.7	8471.8
30°	9607.1	9498.4	9130.0	8490.0	8387.3	8272.6	7982.7	7976.7	8127.7	8846.2
32.5°	10247.1	10108.2	9854.6	9395.7	9111.9	9124.0	8665.1	8659.0	8526.2	9256.8
35°	10875.1	10663.8	10597.4	10126.4	9842.6	9872.8	9504.4	9456.1	9214.6	9878.8
37.5°	11629.9	11442.7	11545.4	11189.1	10838.9	10694.0	10524.9	10464.5	10150.5	10754.4
40°	12463.2	12402.8	12336.4	12161.3	11950.0	11962.0	11780.9	11720.5	11255.5	11811.1
42.5°	13586.4	13356.9	13012.7	13127.4	13236.1	13350.9	13290.5	13133.5	12650.4	12885.9
45°	14631.0	14329.1	13695.0	13731.3	14178.1	14268.7	14999.3	14981.2	14009.0	14250.6
47.5°	15337.5	15198.6	14818.2	14775.9	15416.0	15409.9	16726.3	16726.3	15440.1	15609.2
50°	16388.2	16025.9	15862.8	16074.2	16400.2	16623.7	18489.5	18604.2	16847.1	17028.2
52.5°	17620.0	17167.1	16756.5	17300.0	17879.6	18024.6	20234.6	20186.3	17928.0	18676.7
55°	18640.5	18411.0	18127.2	18441.2	19389.2	19570.4	21985.7	21538.9	19008.8	20041.4
57.5°	19830.0	19968.9	20029.3	19950.8	21080.0	21363.8	23984.4	22704.3	19938.7	20959.2
60°	21623.4	21708.0	21786.5	21973.7	23169.3	23567.8	25566.5	24165.6	20524.5	21490.6
62.5°	24352.8	24026.7	24201.8	24847.9	25808.0	26260.9	27897.3	25192.1	20971.3	21810.6
65°	27474.6	27033.8	26852.7	27686.0	30173.8	29811.5	30807.8	25959.0	20325.2	20615.0
67.5°	30638.7	30687.0	30222.1	31894.7	34944.1	34944.1	33513.0	26327.3	18574.1	16708.2
70°	33150.7	33301.7	33555.3	36797.9	41628.6	42359.2	36864.3	24817.7	15005.4	11122.7
72.5°	33114.5	32661.6	33959.9	39931.8	47703.2	47093.3	37564.8	19624.7	9365.5	5446.6
73°	32371.8	31991.3	33410.4	39901.6	47950.8	47377.1	37051.5	18091.0	8260.5	4722.0
75°	26436.0	25747.7	28163.0	36139.7	44364.0	44804.8	31478.1	11799.0	4528.8	2910.5
77.5°	12052.6	12354.5	15500.5	24244.1	34189.3	34708.6	20693.5	5102.4	2481.8	2041.0
80°	3870.6	4063.8	6032.3	12052.6	21430.2	22366.2	9564.8	2318.7	1769.2	1563.9
82.5°	1479.4	1473.4	2530.1	5011.9	10156.6	10754.4	3496.2	1413.0	1316.4	1153.3
85°	519.3	543.5	954.1	1980.6	3997.4	4184.6	1213.7	785.0	911.8	772.9
87.5°	181.2	187.2	338.1	718.6	1376.8	1455.2	338.1	314.0	452.9	446.8
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°
8188.0	0°	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0	8188.0
8212.2	2.5°	8272.6	8326.9	8345.0	8562.4	8562.4	8562.4	8647.0	8647.0	8622.8	8562.4
8182.0	5°	8308.8	8405.4	8592.6	8779.8	8828.1	8870.4	8985.1	8888.5	8924.7	8864.3
8290.7	7.5°	8411.5	8544.3	8894.5	9009.3	8930.8	9021.3	8900.6	8834.2	8767.7	8791.9
8314.8	10°	8586.6	8755.7	8918.7	9130.0	8979.1	8888.5	8640.9	8580.5	8369.2	8296.7
8417.5	12.5°	8804.0	9009.3	9287.0	9208.5	8918.7	8659.0	8393.3	8139.7	8012.9	7831.8
8592.6	15°	9021.3	9256.8	9299.1	9166.3	8804.0	8477.9	7994.8	7638.6	7511.7	7348.7
8846.2	17.5°	9256.8	9480.3	9407.8	9063.6	8574.5	8079.4	7529.9	7179.6	6913.9	6811.3
9130.0	20°	9607.1	9715.8	9601.0	8894.5	8296.7	7644.6	7113.2	6714.7	6449.0	6406.7
9401.8	22.5°	9878.8	10053.9	9540.6	8647.0	7892.2	7077.0	6467.1	6316.1	6237.6	6171.2
9709.7	25°	10229.0	10223.0	9431.9	8417.5	7197.7	6400.7	6032.3	6020.3	5984.0	5959.9
10150.5	27.5°	10561.1	10422.2	9305.1	7849.9	6479.2	5887.4	5688.2	5821.0	5875.3	5839.1
10760.4	30°	11086.5	10857.0	9124.0	7246.1	5845.2	5368.1	5404.4	5585.5	5676.1	5730.4
11291.8	32.5°	11642.0	11291.8	8749.6	6618.1	5283.6	5042.0	5126.6	5313.8	5422.5	5482.8
12167.3	35°	12445.1	11629.9	8369.2	5796.8	4879.0	4842.8	4891.1	4993.7	5150.7	5193.0
13362.9	37.5°	13435.4	12143.2	7855.9	5138.7	4565.0	4607.3	4655.6	4691.8	4697.9	4776.4
14510.2	40°	14425.7	12577.9	7107.2	4510.7	4238.9	4468.4	4444.2	4377.8	4323.5	4251.0
15790.4	42.5°	15295.2	12958.4	6273.9	3979.3	3949.1	4323.5	4245.0	4075.9	3949.1	3894.8
17245.6	45°	16273.4	13495.8	5434.5	3647.2	3725.7	4148.4	4124.2	3864.6	3701.5	3508.3
18809.6	47.5°	17541.5	14057.3	4631.4	3303.0	3514.3	4081.9	4094.0	3761.9	3526.4	3266.8
20856.6	50°	19165.8	14866.5	4021.6	3158.1	3387.5	3985.3	4003.4	3623.0	3315.1	3049.4
23253.8	52.5°	20723.7	15693.8	3514.3	2934.7	3303.0	3870.6	3912.9	3496.2	3140.0	2807.8
24407.1	55°	21508.7	15391.8	3079.6	2771.6	3109.8	3683.4	3840.4	3405.6	2874.3	2644.8
25083.4	57.5°	21683.8	14649.1	2735.4	2602.5	2946.7	3484.1	3719.6	3133.9	2753.5	2560.3
25137.8	60°	21110.2	13350.9	2463.7	2421.4	2741.4	3278.8	3441.9	2989.0	2632.7	2475.7
23362.5	62.5°	19697.2	12004.3	2276.5	2336.9	2566.3	3055.4	3266.8	2886.3	2518.0	2409.3
19811.9	65°	16152.7	9872.8	2125.5	2173.8	2385.2	2838.0	3158.1	2771.6	2415.4	2312.7
13894.3	67.5°	11189.1	6805.3	2004.7	2095.3	2240.2	2681.0	3049.4	2644.8	2282.5	2246.3
7596.3	70°	5730.4	3629.1	1847.7	1920.2	2083.2	2481.8	2856.2	2512.0	2143.6	2137.6
3484.1	72.5°	2904.5	2125.5	1666.6	1775.3	1890.0	2222.1	2614.6	2336.9	1968.5	1902.1
3097.7	73°	2512.0	1968.5	1636.4	1733.0	1841.7	2149.7	2542.2	2294.6	1944.4	1847.7
2179.9	75°	1829.6	1551.9	1467.3	1563.9	1648.5	1938.3	2300.6	2101.4	1787.4	1684.7
1606.2	77.5°	1370.7	1195.6	1219.8	1328.4	1400.9	1672.6	2047.0	1902.1	1618.3	1479.4
1201.6	80°	1008.4	911.8	1008.4	1111.1	1165.4	1473.4	1865.9	1648.5	1364.7	1207.7
851.4	82.5°	718.6	664.2	779.0	845.4	869.5	1219.8	1678.7	1316.4	1032.6	827.3
489.1	85°	410.6	404.6	525.3	519.3	537.4	712.5	1105.0	875.6	664.2	507.2
247.6	87.5°	181.2	199.3	265.7	211.3	223.4	338.1	471.0	326.1	271.7	151.0
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>
8188.0
8707.3
8918.7
8707.3
8363.2
7880.1
7433.2
6811.3
6340.3
6086.7
6074.6
5887.4
5658.0
5549.3
5211.1
4746.2
4232.9
3804.2
3484.1
3230.5
3025.2
2826.0
2638.8
2536.1
2439.5
2330.8
2306.7
2198.0
2077.2
1805.5
1757.2
1600.2
1443.2
1177.5
760.8
495.1
114.7
0.0

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