

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: P574608

Luminaire Tested: **EPH-VN-08-730-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

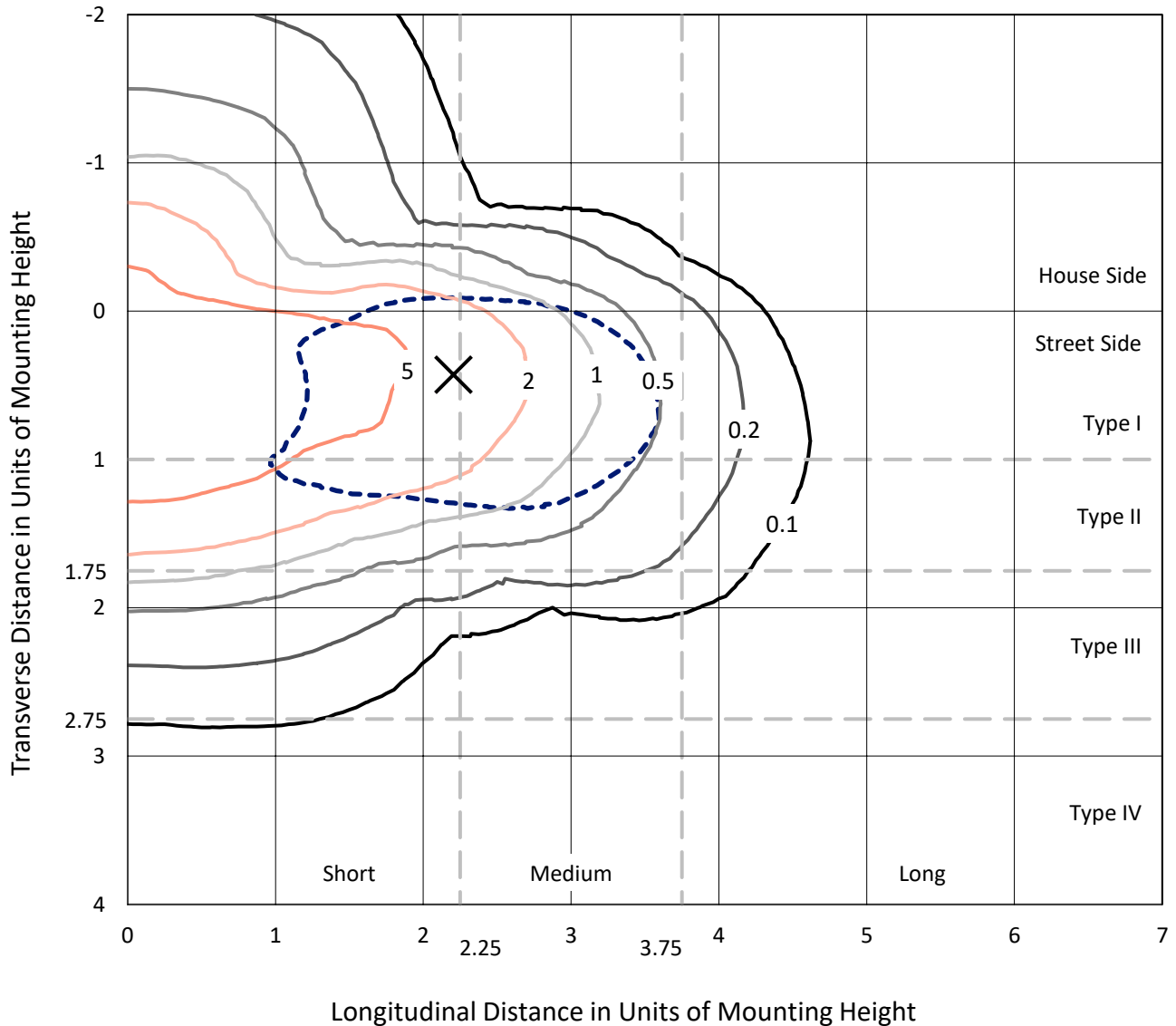
Lumens per Lamp: N/A
Luminaire Lumens: 50702.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

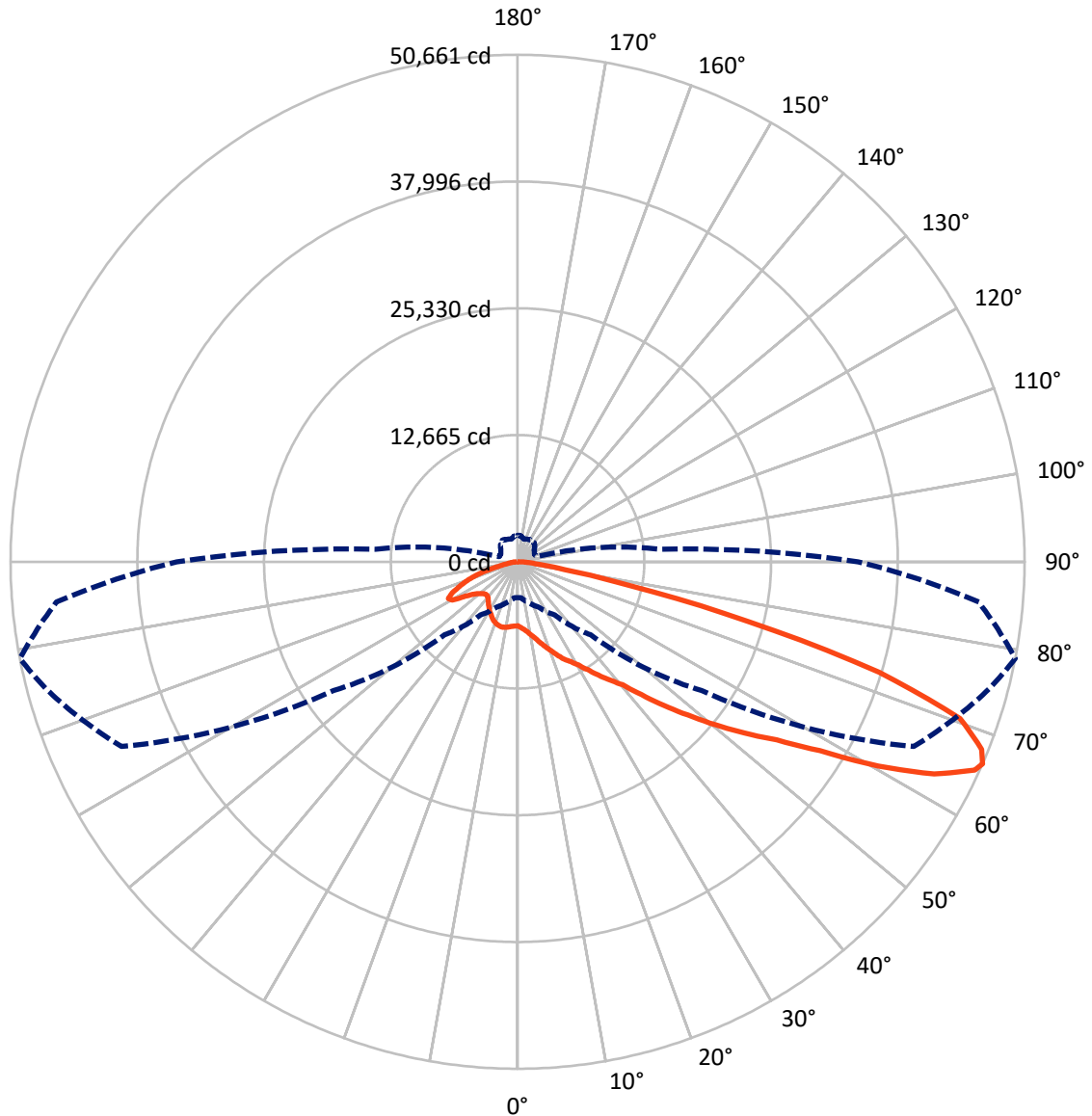
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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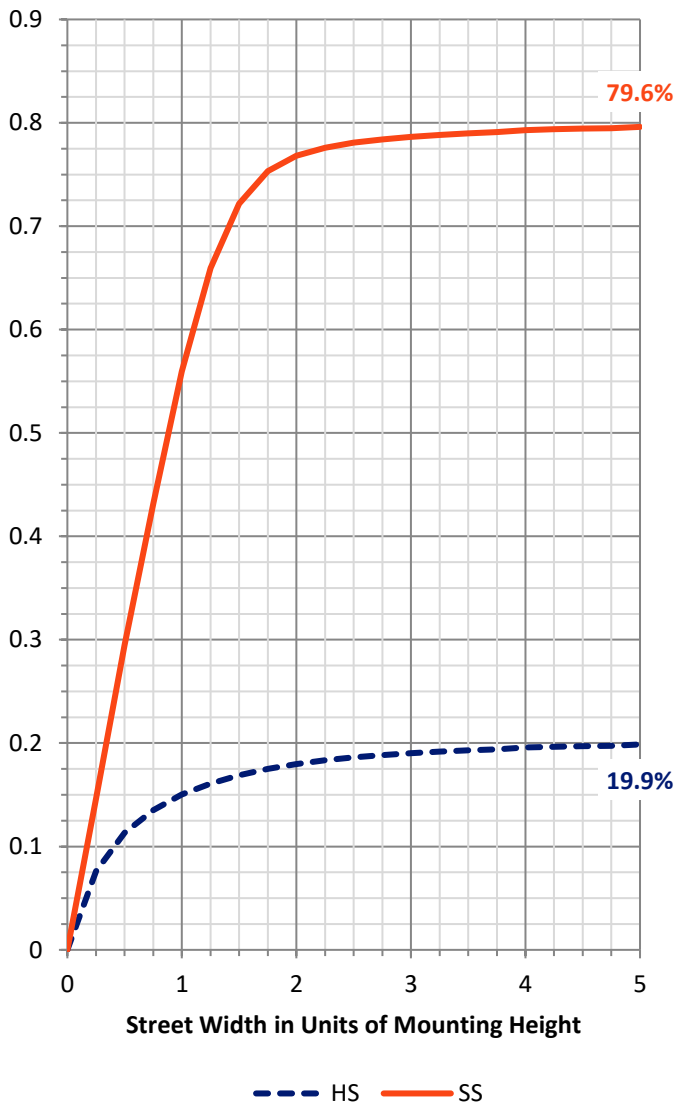
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10238.7	0.0	10238.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	40463.9	0.0	40463.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	50702.6	0.0	50702.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.5	1.2
10°-20°	1944.0	3.8
20°-30°	3336.9	6.6
30°-40°	5154.9	10.2
40°-50°	8256.8	16.3
50°-60°	12328.0	24.3
60°-70°	12667.0	25.0
70°-80°	5615.1	11.1
80°-90°	770.4	1.5
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°	50702.6	100.0
0°-180°	50702.6	100.0

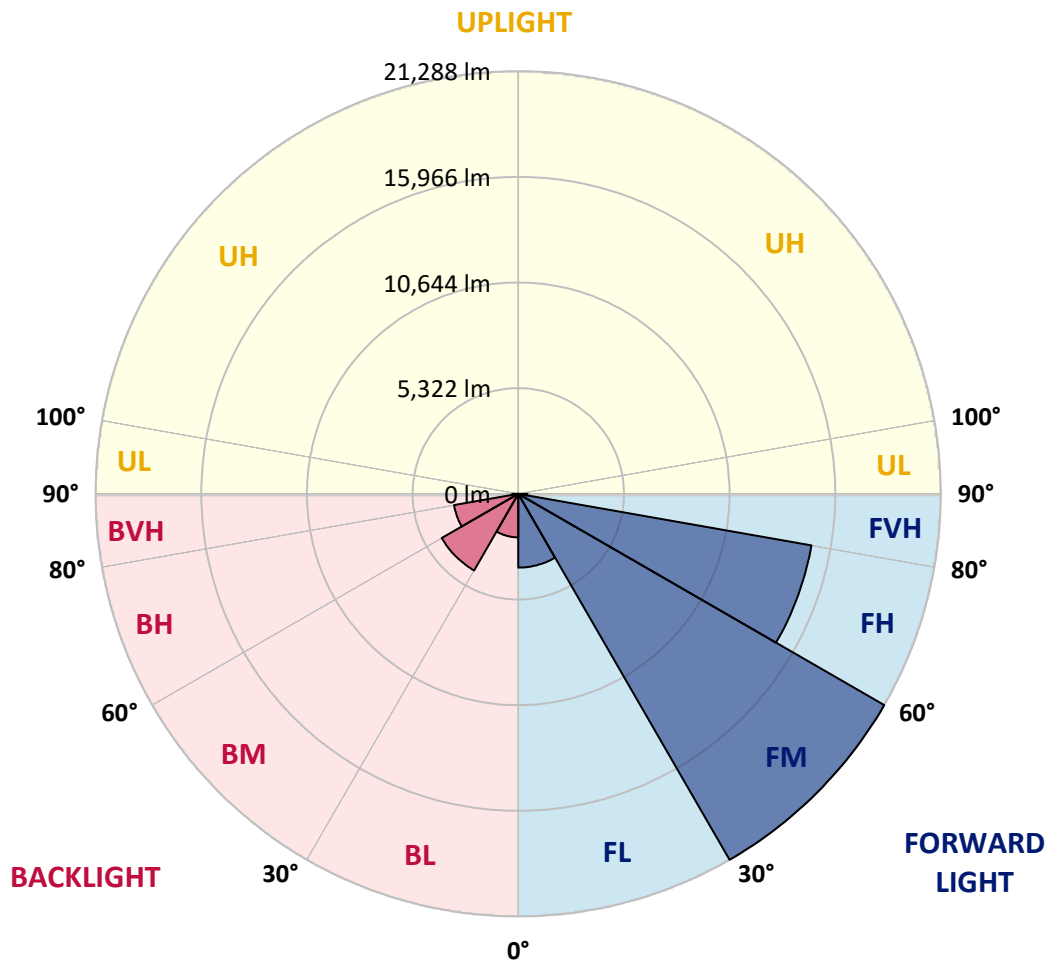


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3716.8	7.3			
FM (30°-60°)	21288.3	42.0			
FH (60°-80°)	14996.7	29.6			G5
FVH (80°-90°)	462.1	0.9			G3/500
BL (0°-30°)	2193.6	4.3	B3/2500		
BM (30°-60°)	4451.3	8.8	B3/5000		
BH (60°-80°)	3285.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	308.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3
2.5°	6809.4	6815.0	6815.0	6792.7	6798.3	6815.0	6753.7	6619.8	6619.8	6597.5
5°	7227.7	7199.8	7160.8	7166.4	7144.1	7144.1	7077.1	6948.9	6837.3	6792.7
7.5°	7283.5	7311.4	7305.8	7372.7	7406.2	7406.2	7439.6	7333.7	7166.4	7060.4
10°	7395.0	7322.5	7316.9	7473.1	7523.3	7640.4	7774.3	7718.5	7579.1	7428.5
12.5°	7461.9	7506.6	7506.6	7584.6	7701.8	7874.6	8108.9	8214.8	7997.3	7841.2
15°	7562.3	7501.0	7679.4	7746.4	7969.4	8092.1	8426.8	8700.0	8555.0	8365.4
17.5°	7606.9	7567.9	7668.3	7791.0	8170.2	8354.3	8761.4	9140.6	9017.9	8895.2
20°	7835.6	7830.0	7874.6	7975.0	8248.3	8610.8	9118.3	9642.5	9687.1	9464.1
22.5°	8393.3	8320.8	8320.8	8281.8	8398.9	8772.5	9458.5	10183.5	10384.3	10122.1
25°	8906.4	9006.8	8945.4	8766.9	8722.3	8917.5	9703.9	10757.9	11025.6	10780.2
27.5°	9564.4	9597.9	9703.9	9464.1	9157.3	9218.7	9971.6	11081.4	11633.5	11304.5
30°	10512.5	10451.2	10428.9	10161.2	9759.6	9676.0	10278.3	11555.4	12431.0	11968.1
32.5°	11153.9	11304.5	11298.9	10930.8	10445.6	10261.6	10657.5	12001.6	13284.3	12854.8
35°	12425.4	12581.6	12458.9	11917.9	11349.1	10981.0	11204.1	12581.6	14260.2	13925.6
37.5°	14048.3	14416.4	14154.3	13156.0	12352.9	11951.4	11962.5	13211.8	15258.5	14985.2
40°	15169.3	15665.6	15303.1	14366.2	13512.9	13133.7	12983.1	13959.1	16452.0	16162.0
42.5°	16557.9	16970.6	16781.0	15855.2	14857.0	14533.5	14232.3	15208.3	18275.6	18141.8
45°	18074.9	18270.0	18208.7	17623.1	16513.3	16401.8	15738.1	16853.5	20422.7	20478.5
47.5°	19485.8	19591.8	19708.9	19285.1	18593.5	18688.3	17472.5	18615.8	22508.5	22876.6
50°	19848.3	20210.8	20484.1	20768.5	20919.1	21560.4	19385.4	20779.7	24906.6	25620.5
52.5°	19480.2	19452.4	20283.3	21175.6	22681.4	24025.4	21989.9	23467.8	27025.8	28436.8
55°	17807.2	17751.4	19089.9	20272.2	23211.2	25397.4	25709.7	27048.1	29585.7	31420.5
57.5°	14879.3	14533.5	15994.7	17935.4	22062.4	25548.0	29446.2	32363.0	33523.0	35614.3
60°	9999.4	9854.4	11254.3	13568.7	17913.1	23412.0	31682.6	39016.3	39072.0	41425.5
62.5°	6156.9	6184.8	7082.7	8817.1	12542.5	18560.0	30717.8	44331.1	44342.2	46701.3
65°	4026.5	4043.3	4768.3	5727.5	7835.6	12587.1	25403.0	44749.4	48006.3	50198.0
66°	3586.0	3591.5	4216.2	4996.9	6491.6	10300.6	22436.0	43661.8	48831.7	50660.9
67.5°	3022.7	3095.2	3597.1	4199.4	5063.9	7400.6	17801.6	40516.5	48407.8	50014.0
70°	2364.6	2403.7	2799.6	3413.1	3797.9	4283.1	10579.5	33026.6	44308.8	46913.2
72.5°	1896.2	1929.6	2230.8	2771.7	3084.0	2821.9	5761.0	23964.1	35000.9	37778.2
75°	1600.6	1606.2	1751.2	2180.6	2537.5	2119.2	3067.3	15381.2	22458.3	23752.2
77.5°	1293.8	1316.2	1416.5	1661.9	2041.2	1667.5	1829.2	8616.4	11276.6	11371.4
80°	1054.0	1065.2	1126.5	1210.2	1556.0	1232.5	1238.1	4205.0	4835.2	4723.7
82.5°	831.0	842.1	914.6	897.9	1143.3	881.2	769.6	2024.4	2225.2	2180.6
85°	468.5	468.5	719.4	719.4	725.0	557.7	468.5	953.7	1176.7	1098.7
87.5°	150.6	156.2	217.5	228.7	362.5	251.0	228.7	356.9	557.7	490.8
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°
6402.3	0°	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3	6402.3
6558.5	2.5°	6536.2	6446.9	6407.9	6279.6	6246.2	6162.5	6123.5	6073.3	6056.6	5984.1
6675.6	5°	6586.4	6558.5	6402.3	6240.6	6117.9	6062.1	5978.5	5866.9	5855.8	5755.4
6943.3	7.5°	6798.3	6703.5	6430.2	6257.3	6011.9	5872.5	5688.5	5632.7	5560.2	5526.7
7272.3	10°	7127.3	6887.5	6480.4	6045.4	5744.2	5576.9	5443.1	5404.1	5409.6	5387.3
7601.4	12.5°	7361.6	7132.9	6396.7	5866.9	5476.6	5314.8	5303.7	5342.7	5404.1	5376.2
7986.2	15°	7696.2	7266.8	6335.4	5571.4	5259.1	5214.4	5208.9	5326.0	5320.4	5320.4
8504.8	17.5°	8008.5	7400.6	6112.3	5314.8	5030.4	5063.9	5102.9	5097.3	5153.1	5175.4
8934.3	20°	8404.4	7556.8	5800.0	5058.3	4857.5	4846.4	4840.8	4846.4	4902.1	4935.6
9419.4	22.5°	8750.2	7590.2	5537.9	4812.9	4651.2	4606.6	4534.1	4606.6	4578.7	4589.8
10077.5	25°	9051.4	7595.8	5164.2	4628.9	4444.8	4344.4	4288.7	4283.1	4232.9	4227.3
10451.2	27.5°	9302.3	7406.2	4835.2	4372.3	4199.4	4104.6	4099.0	4037.7	3909.4	3825.8
10891.8	30°	9497.5	7261.2	4606.6	4149.2	3981.9	3965.2	3915.0	3775.6	3608.3	3502.3
11706.0	32.5°	9843.3	6971.2	4294.2	3920.6	3836.9	3814.6	3697.5	3574.8	3418.7	3318.3
12397.5	35°	10099.8	6703.5	4087.9	3725.4	3686.4	3641.7	3541.4	3407.5	3362.9	3340.6
13139.3	37.5°	10389.8	6402.3	3836.9	3558.1	3597.1	3513.5	3396.4	3335.0	3491.2	3452.1
14299.3	40°	10852.7	6190.4	3591.5	3457.7	3496.7	3401.9	3251.4	3229.0	3424.2	3284.8
15788.3	42.5°	11700.4	6184.8	3441.0	3307.1	3335.0	3262.5	3128.7	3117.5	3195.6	3028.3
17651.0	45°	12754.5	6380.0	3329.4	3195.6	3173.3	3162.1	3117.5	3067.3	3000.4	2782.9
19725.6	47.5°	14014.8	6697.9	3307.1	3028.3	3056.2	3151.0	3095.2	2966.9	2794.0	2654.6
22034.5	50°	15542.9	7356.0	3251.4	2905.6	2955.8	3106.4	3061.7	2883.3	2727.1	2637.9
24148.1	52.5°	17232.7	8186.9	3178.9	2716.0	2827.5	3067.3	3089.6	2922.3	2693.7	2615.6
27009.1	55°	19223.7	9413.9	3095.2	2509.6	2676.9	3028.3	3089.6	2810.8	2649.0	2649.0
31375.9	57.5°	23155.4	11622.3	2922.3	2320.0	2543.1	2955.8	3000.4	2816.4	2654.6	2654.6
38151.8	60°	28922.0	15068.9	2593.3	2175.0	2414.8	2855.4	2933.5	2732.7	2593.3	2626.7
43728.8	62.5°	33433.7	16117.4	2314.4	2035.6	2286.5	2671.4	2844.2	2643.5	2520.8	2643.5
46283.0	65°	34398.6	15057.7	2030.0	1885.0	2108.1	2492.9	2716.0	2515.2	2414.8	2654.6
46249.5	66°	34052.8	14232.3	1929.6	1840.4	2030.0	2403.7	2637.9	2470.6	2359.0	2643.5
45201.1	67.5°	32513.5	12994.3	1818.1	1745.6	1924.0	2275.4	2548.7	2409.2	2269.8	2610.0
41386.5	70°	29167.4	11020.0	1628.5	1578.3	1773.5	2063.5	2342.3	2253.1	2130.4	2403.7
32552.6	72.5°	22463.9	8806.0	1427.7	1433.3	1600.6	1846.0	2136.0	2074.6	1968.7	2108.1
19943.1	75°	13680.2	5627.1	1243.7	1254.8	1394.2	1639.6	1940.8	1896.2	1767.9	1846.0
9218.7	77.5°	6062.1	2788.5	1048.5	1070.8	1182.3	1444.4	1689.8	1617.3	1483.5	1500.2
3747.7	80°	2353.5	1321.7	853.3	881.2	953.7	1154.4	1399.8	1332.9	1215.8	1193.5
1723.3	82.5°	1132.1	736.2	658.1	669.2	697.1	920.2	1204.6	1121.0	964.8	864.4
808.7	85°	568.8	457.3	462.9	423.8	462.9	624.6	814.2	680.4	563.3	501.9
290.0	87.5°	228.7	228.7	228.7	195.2	206.3	295.6	379.2	256.5	234.2	139.4
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>
6402.3
6051.0
5744.2
5599.2
5353.9
5415.2
5314.8
5214.4
4907.7
4623.3
4227.3
3836.9
3502.3
3301.5
3357.3
3468.9
3251.4
2978.1
2727.1
2626.7
2621.2
2604.4
2637.9
2632.3
2621.2
2654.6
2665.8
2649.0
2559.8
2314.4
2052.3
1818.1
1489.0
1182.3
864.4
513.1
139.4
0.0

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