

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: P574614

Luminaire Tested: **EPH-VN-08-735-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

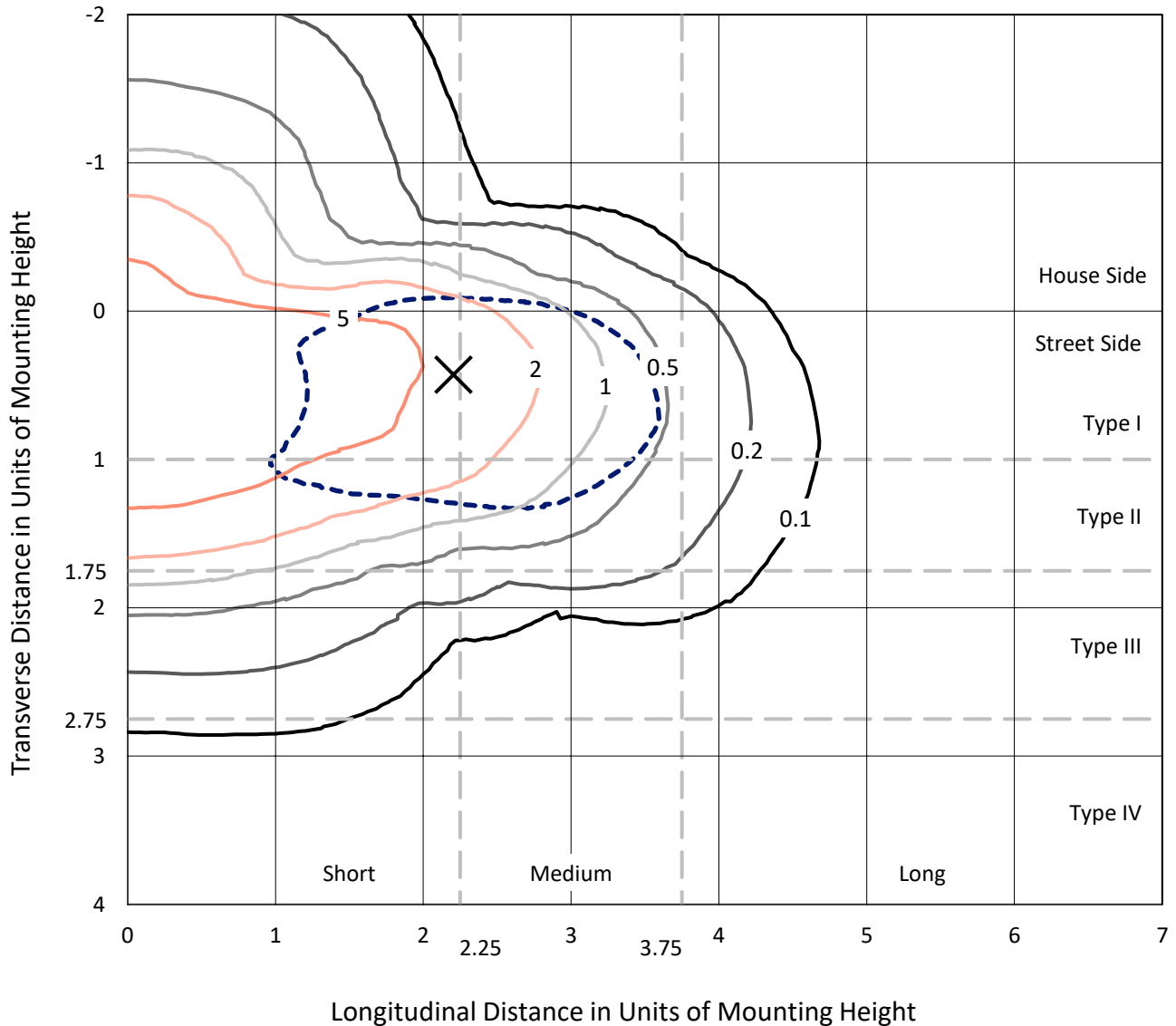
Lumens per Lamp: N/A
Luminaire Lumens: 54917.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

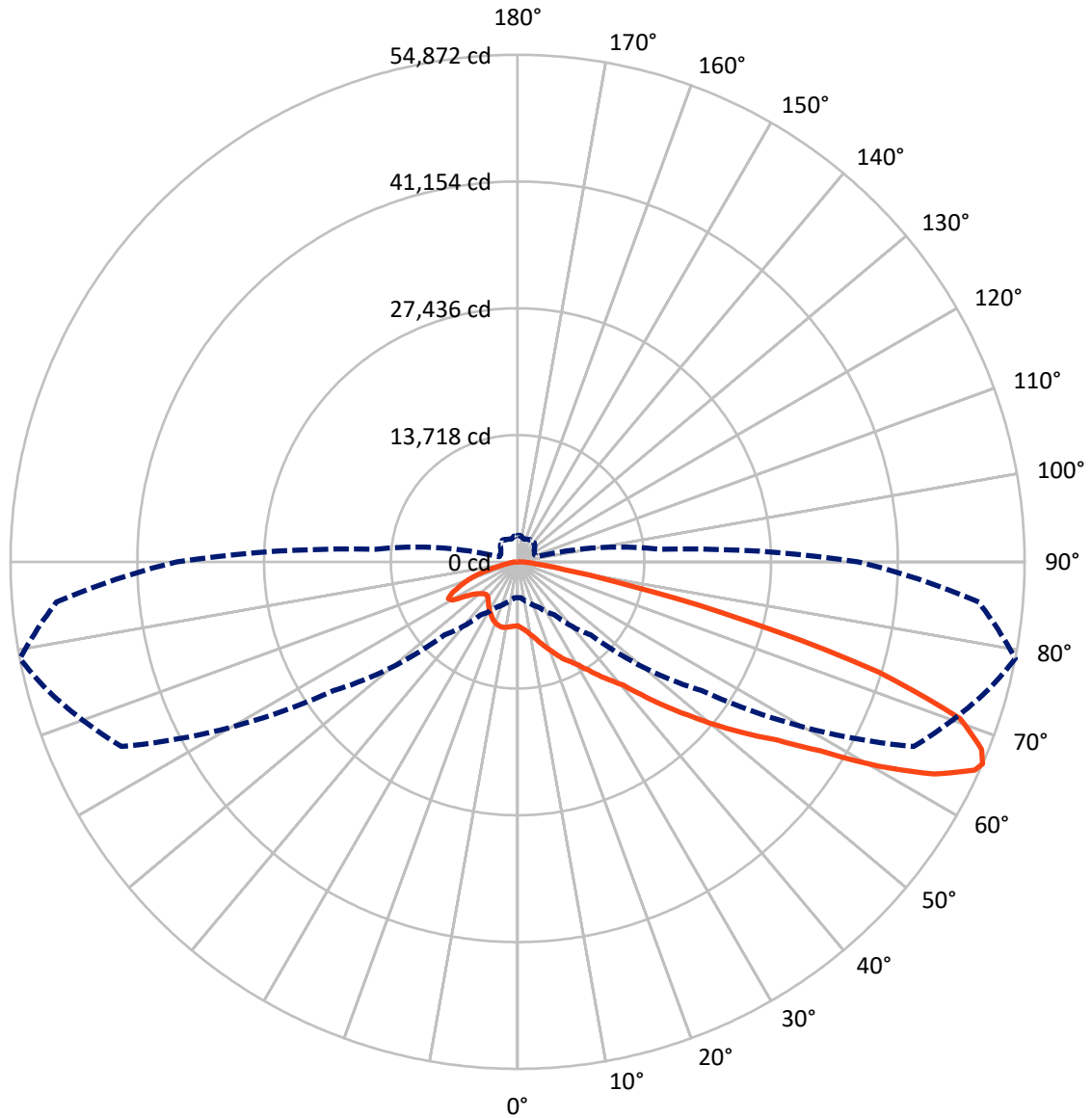
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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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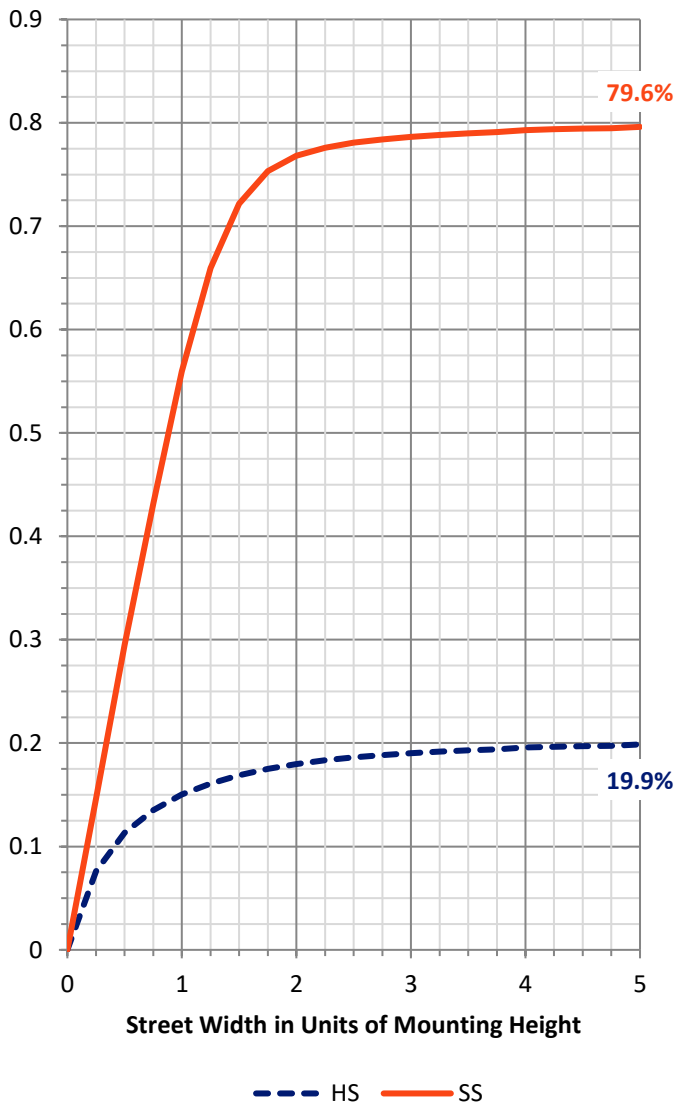
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11089.8	0.0	11089.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	43827.7	0.0	43827.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	54917.6	0.0	54917.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.9	1.2
10°-20°	2105.6	3.8
20°-30°	3614.3	6.6
30°-40°	5583.4	10.2
40°-50°	8943.2	16.3
50°-60°	13352.8	24.3
60°-70°	13720.0	25.0
70°-80°	6081.9	11.1
80°-90°	834.5	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°	54917.6	100.0
0°-180°	54917.6	100.0

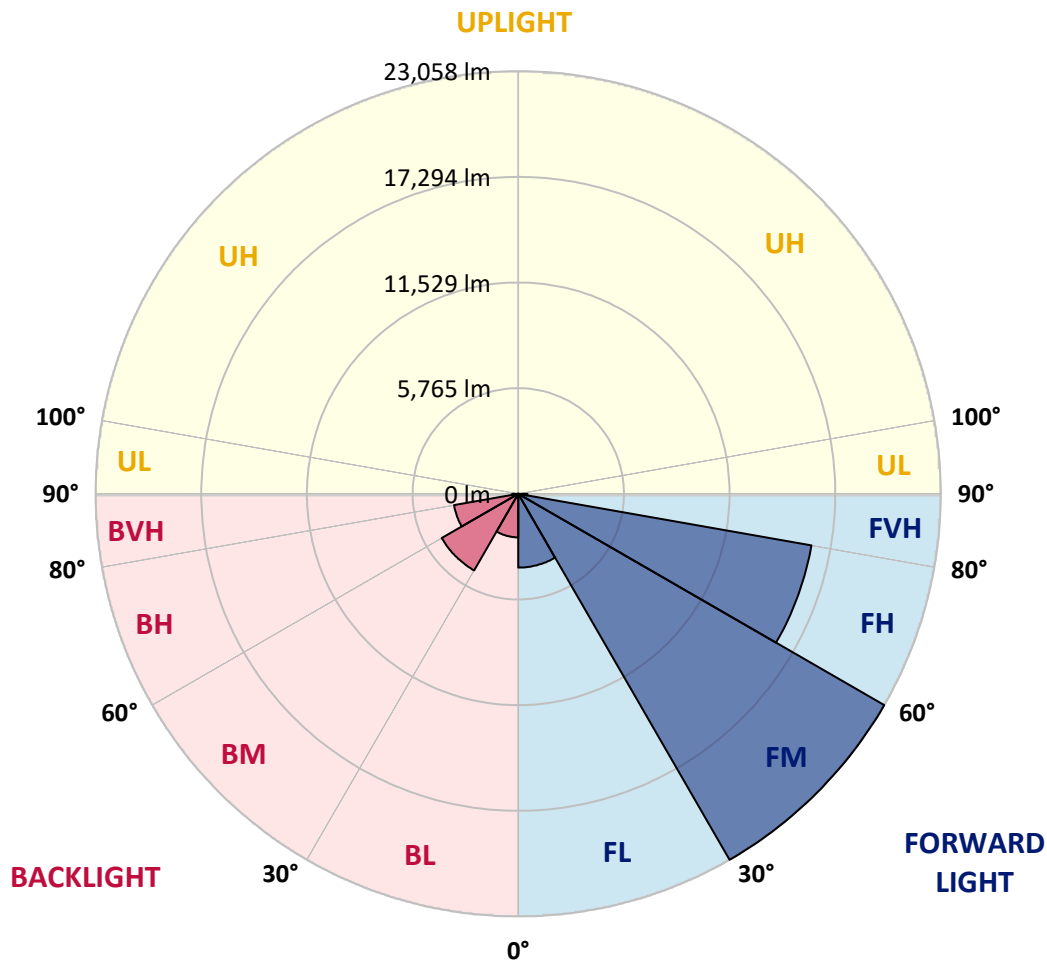


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4025.8	7.3			
FM (30°-60°)	23058.0	42.0			
FH (60°-80°)	16243.4	29.6			G5
FVH (80°-90°)	500.5	0.9			G4/750
BL (0°-30°)	2376.0	4.3	B3/2500		
BM (30°-60°)	4821.4	8.8	B3/5000		
BH (60°-80°)	3558.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	334.0	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°	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6
2.5°	7375.5	7381.6	7381.6	7357.4	7363.4	7381.6	7315.1	7170.1	7170.1	7146.0
5°	7828.6	7798.4	7756.1	7762.1	7738.0	7738.0	7665.5	7526.5	7405.7	7357.4
7.5°	7889.0	7919.2	7913.1	7985.6	8021.9	8021.9	8058.1	7943.3	7762.1	7647.3
10°	8009.8	7931.3	7925.2	8094.4	8148.7	8275.6	8420.5	8360.1	8209.1	8046.0
12.5°	8082.3	8130.6	8130.6	8215.2	8342.0	8529.3	8783.0	8897.7	8662.2	8493.0
15°	8191.0	8124.6	8317.9	8390.3	8632.0	8764.9	9127.3	9423.3	9266.2	9060.8
17.5°	8239.3	8197.0	8305.8	8438.7	8849.4	9048.8	9489.7	9900.5	9767.6	9634.7
20°	8487.0	8480.9	8529.3	8638.0	8934.0	9326.6	9876.3	10444.1	10492.5	10250.8
22.5°	9091.0	9012.5	9012.5	8970.2	9097.1	9501.8	10244.8	11030.1	11247.5	10963.6
25°	9646.8	9755.5	9689.1	9495.8	9447.4	9658.9	10510.6	11652.2	11942.2	11676.4
27.5°	10359.6	10395.8	10510.6	10250.8	9918.6	9985.0	10800.5	12002.6	12600.6	12244.2
30°	11386.5	11320.0	11295.8	11005.9	10571.0	10480.4	11132.8	12516.0	13464.4	12963.0
32.5°	12081.1	12244.2	12238.2	11839.5	11314.0	11114.6	11543.5	12999.3	14388.6	13923.5
35°	13458.4	13627.5	13494.6	12908.7	12292.5	11893.9	12135.5	13627.5	15445.7	15083.3
37.5°	15216.2	15614.8	15330.9	14249.7	13379.8	12944.9	12957.0	14310.1	16527.0	16231.0
40°	16430.3	16967.9	16575.3	15560.5	14636.3	14225.5	14062.4	15119.5	17819.7	17505.5
42.5°	17934.4	18381.4	18176.0	17173.3	16092.1	15741.7	15415.5	16472.6	19794.9	19649.9
45°	19577.5	19788.9	19722.4	19088.2	17886.1	17765.3	17046.5	18254.6	22120.5	22180.9
47.5°	21105.7	21220.5	21347.3	20888.3	20139.2	20241.9	18925.1	20163.4	24379.7	24778.4
50°	21498.4	21891.0	22187.0	22495.0	22658.1	23352.8	20997.0	22507.1	26977.1	27750.3
52.5°	21099.7	21069.5	21969.5	22936.0	24567.0	26022.7	23817.9	25418.7	29272.6	30800.8
55°	19287.5	19227.1	20676.8	21957.4	25140.8	27508.7	27847.0	29296.7	32045.2	34032.5
57.5°	16116.2	15741.7	17324.3	19426.4	23896.5	27671.8	31894.2	35053.4	36309.8	38575.0
60°	10830.7	10673.7	12189.9	14696.7	19402.3	25358.3	34316.4	42259.8	42320.2	44869.3
62.5°	6668.8	6699.0	7671.5	9550.1	13585.2	20103.0	33271.4	48016.4	48028.5	50583.7
65°	4361.3	4379.4	5164.7	6203.7	8487.0	13633.5	27514.8	48469.5	51997.1	54371.1
66°	3884.1	3890.1	4566.7	5412.3	7031.2	11156.9	24301.2	47291.5	52891.1	54872.4
67.5°	3274.0	3352.5	3896.2	4548.5	5484.8	8015.8	19281.5	43884.7	52432.1	54171.7
70°	2561.2	2603.5	3032.4	3696.8	4113.6	4639.2	11458.9	35772.2	47992.3	50813.2
72.5°	2053.8	2090.0	2416.2	3002.2	3340.4	3056.5	6239.9	25956.3	37910.6	40918.8
75°	1733.6	1739.7	1896.7	2361.9	2748.5	2295.4	3322.3	16659.9	24325.3	25726.7
77.5°	1401.4	1425.6	1534.3	1800.1	2210.8	1806.1	1981.3	9332.7	12214.0	12316.7
80°	1141.7	1153.7	1220.2	1310.8	1685.3	1335.0	1341.0	4554.6	5237.2	5116.4
82.5°	900.0	912.1	990.7	972.5	1238.3	954.4	833.6	2192.7	2410.2	2361.9
85°	507.4	507.4	779.2	779.2	785.3	604.1	507.4	1032.9	1274.6	1190.0
87.5°	163.1	169.1	235.6	247.7	392.6	271.8	247.7	386.6	604.1	531.6
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°
6934.6	0°	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6	6934.6
7103.7	2.5°	7079.5	6982.9	6940.6	6801.7	6765.4	6674.8	6632.5	6578.2	6560.0	6481.5
7230.6	5°	7133.9	7103.7	6934.6	6759.4	6626.5	6566.1	6475.5	6354.7	6342.6	6233.9
7520.5	7.5°	7363.4	7260.8	6964.8	6777.5	6511.7	6360.7	6161.4	6101.0	6022.4	5986.2
7876.9	10°	7719.8	7460.1	7019.1	6548.0	6221.8	6040.6	5895.6	5853.3	5859.3	5835.2
8233.3	12.5°	7973.5	7725.9	6928.5	6354.7	5931.8	5756.7	5744.6	5786.9	5853.3	5823.1
8650.1	15°	8336.0	7870.8	6862.1	6034.5	5696.2	5647.9	5641.9	5768.7	5762.7	5762.7
9211.9	17.5°	8674.2	8015.8	6620.5	5756.7	5448.6	5484.8	5527.1	5521.1	5581.5	5605.6
9677.0	20°	9103.1	8185.0	6282.2	5478.8	5261.3	5249.2	5243.2	5249.2	5309.7	5345.9
10202.5	22.5°	9477.6	8221.2	5998.3	5213.0	5037.8	4989.5	4911.0	4989.5	4959.3	4971.4
10915.3	25°	9803.8	8227.2	5593.6	5013.7	4814.3	4705.6	4645.2	4639.2	4584.8	4578.7
11320.0	27.5°	10075.7	8021.9	5237.2	4735.8	4548.5	4445.9	4439.8	4373.4	4234.4	4143.8
11797.2	30°	10287.1	7864.8	4989.5	4494.2	4313.0	4294.8	4240.5	4089.5	3908.2	3793.5
12679.1	32.5°	10661.6	7550.7	4651.2	4246.5	4155.9	4131.7	4004.9	3872.0	3702.9	3594.1
13428.2	35°	10939.5	7260.8	4427.7	4035.1	3992.8	3944.5	3835.8	3690.8	3642.5	3618.3
14231.6	37.5°	11253.6	6934.6	4155.9	3853.9	3896.2	3805.6	3678.7	3612.3	3781.4	3739.1
15488.0	40°	11754.9	6705.0	3890.1	3745.1	3787.4	3684.7	3521.6	3497.5	3708.9	3557.9
17100.8	42.5°	12673.1	6699.0	3727.0	3582.1	3612.3	3533.7	3388.8	3376.7	3461.2	3280.0
19118.4	45°	13814.8	6910.4	3606.2	3461.2	3437.1	3425.0	3376.7	3322.3	3249.8	3014.2
21365.5	47.5°	15179.9	7254.7	3582.1	3280.0	3310.2	3412.9	3352.5	3213.6	3026.3	2875.3
23866.3	50°	16835.0	7967.5	3521.6	3147.1	3201.5	3364.6	3316.3	3123.0	2953.8	2857.2
26155.6	52.5°	18665.3	8867.5	3443.1	2941.8	3062.6	3322.3	3346.5	3165.3	2917.6	2833.0
29254.4	55°	20821.8	10196.5	3352.5	2718.3	2899.5	3280.0	3346.5	3044.4	2869.3	2869.3
33984.2	57.5°	25080.4	12588.5	3165.3	2512.9	2754.5	3201.5	3249.8	3050.5	2875.3	2875.3
41323.5	60°	31326.3	16321.6	2808.9	2355.8	2615.6	3092.8	3177.3	2959.9	2808.9	2845.1
47364.0	62.5°	36213.2	17457.2	2506.8	2204.8	2476.6	2893.4	3080.7	2863.2	2730.3	2863.2
50130.6	65°	37258.2	16309.5	2198.8	2041.7	2283.3	2700.1	2941.8	2724.3	2615.6	2875.3
50094.4	66°	36883.7	15415.5	2090.0	1993.4	2198.8	2603.5	2857.2	2676.0	2555.2	2863.2
48958.7	67.5°	35216.5	14074.5	1969.2	1890.7	2084.0	2464.5	2760.5	2609.5	2458.5	2827.0
44827.0	70°	31592.1	11936.1	1763.8	1709.5	1920.9	2235.0	2537.0	2440.4	2307.5	2603.5
35258.7	72.5°	24331.4	9538.0	1546.4	1552.4	1733.6	1999.4	2313.5	2247.1	2132.3	2283.3
21601.0	75°	14817.5	6094.9	1347.0	1359.1	1510.1	1775.9	2102.1	2053.8	1914.9	1999.4
9985.0	77.5°	6566.1	3020.3	1135.6	1159.8	1280.6	1564.5	1830.3	1751.8	1606.8	1624.9
4059.3	80°	2549.1	1431.6	924.2	954.4	1032.9	1250.4	1516.2	1443.7	1316.8	1292.7
1866.5	82.5°	1226.2	797.4	712.8	724.9	755.1	996.7	1304.8	1214.2	1045.0	936.3
875.9	85°	616.1	495.3	501.4	459.1	501.4	676.5	881.9	736.9	610.1	543.7
314.1	87.5°	247.7	247.7	247.7	211.4	223.5	320.1	410.8	277.9	253.7	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>
6934.6
6554.0
6221.8
6064.7
5798.9
5865.4
5756.7
5647.9
5315.7
5007.6
4578.7
4155.9
3793.5
3576.0
3636.4
3757.2
3521.6
3225.7
2953.8
2845.1
2839.1
2820.9
2857.2
2851.1
2839.1
2875.3
2887.4
2869.3
2772.6
2506.8
2222.9
1969.2
1612.8
1280.6
936.3
555.7
151.0
0.0

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