

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: P574902

Luminaire Tested: **EPH-VN-04-750-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

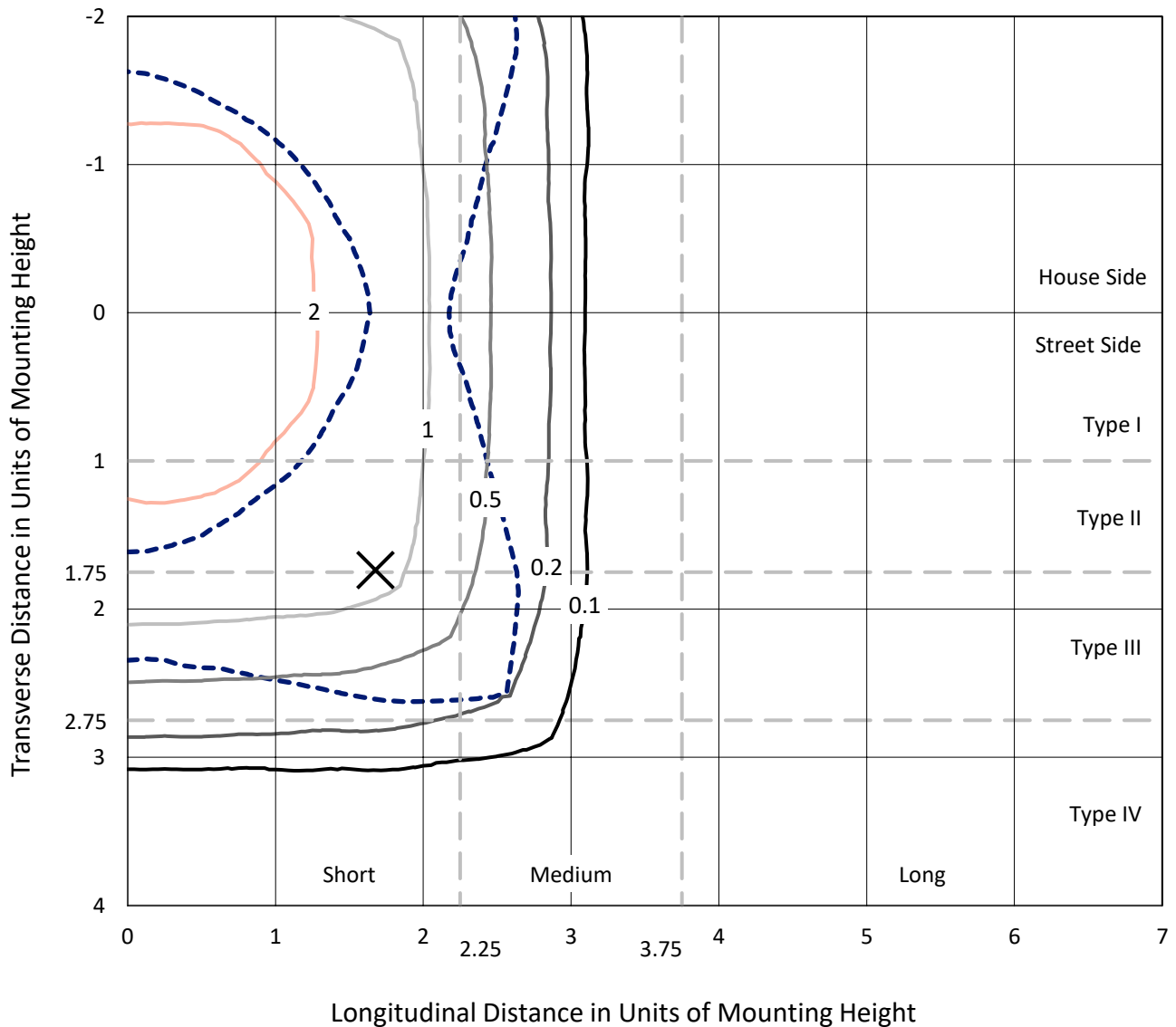
Lumens per Lamp: N/A
Luminaire Lumens: 36112.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

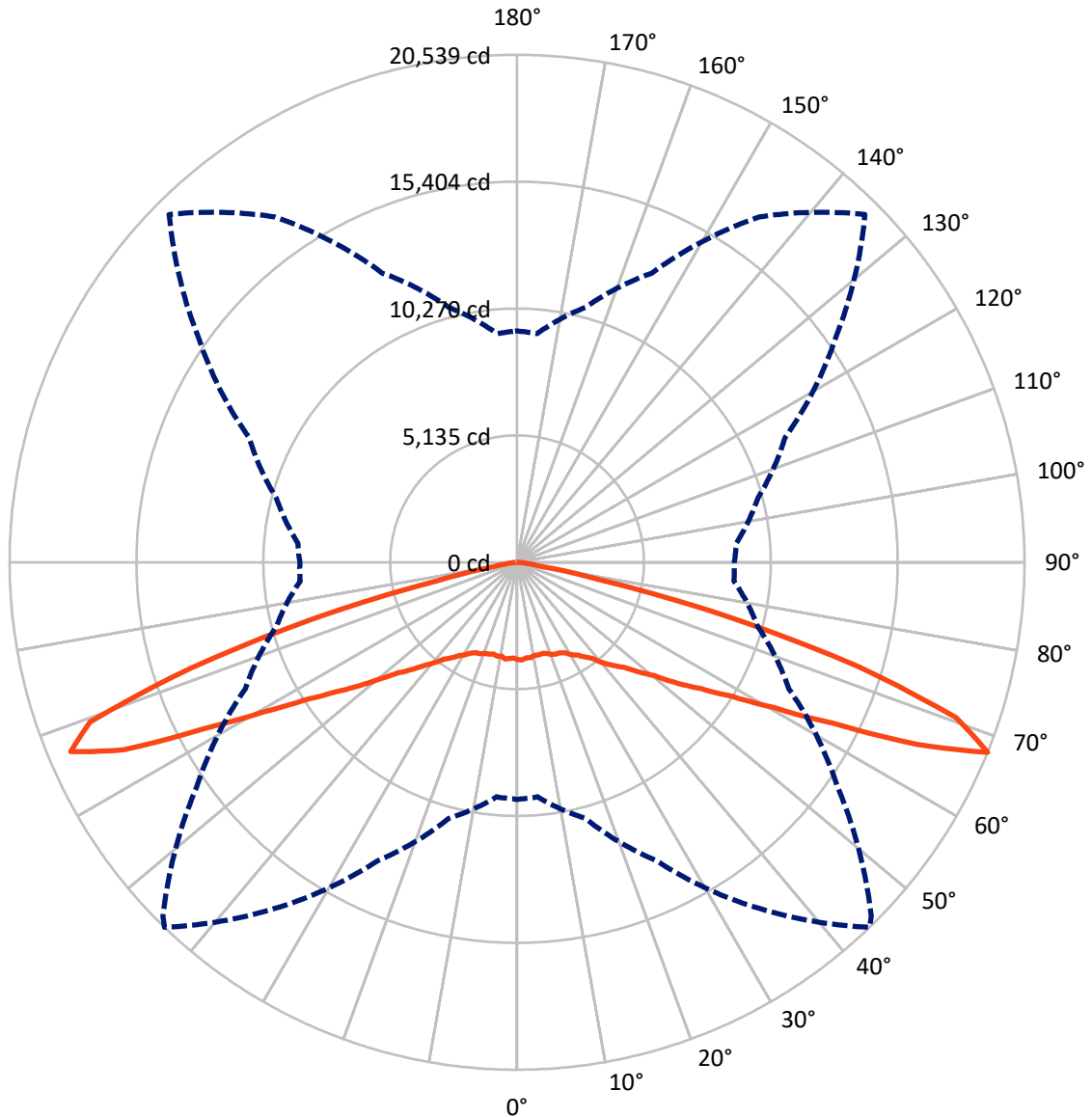
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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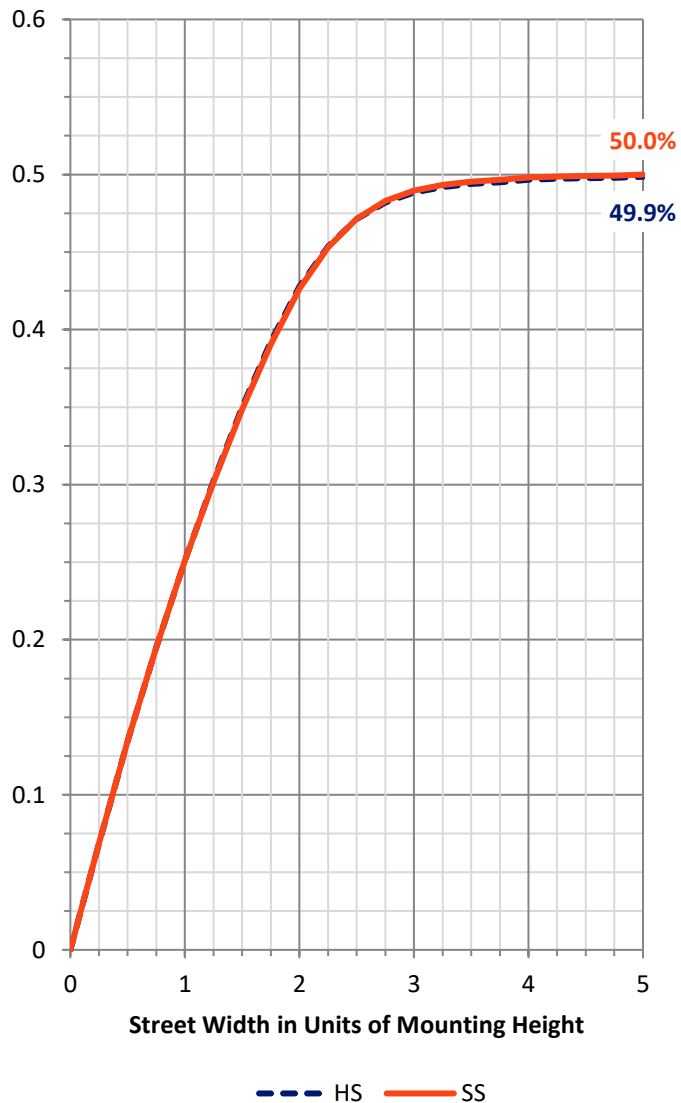
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18009.9	0.0	18009.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18102.3	0.0	18102.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	36112.2	0.0	36112.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	1.0
10°-20°	1090.5	3.0
20°-30°	1854.5	5.1
30°-40°	2940.4	8.1
40°-50°	4794.6	13.3
50°-60°	8188.5	22.7
60°-70°	12454.6	34.5
70°-80°	4198.0	11.6
80°-90°	218.0	0.6
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°	36112.2	100.0
0°-180°	36112.2	100.0

Coefficient of Utilization



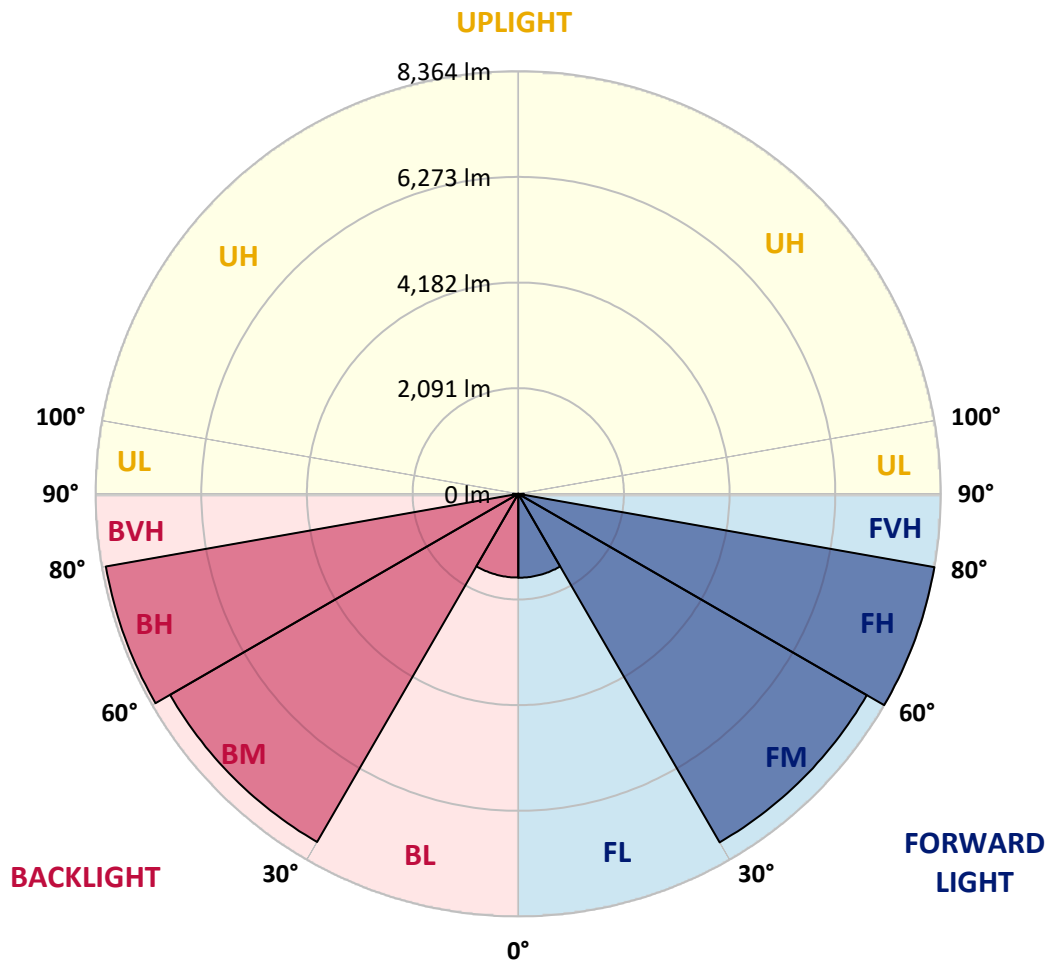
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.9	4.6			
FM (30°-60°)	7966.0	22.1			
FH (60°-80°)	8364.0	23.2			G4/12000
FVH (80°-90°)	111.5	0.3			G2/225
BL (0°-30°)	1657.5	4.6	B3/2500		
BM (30°-60°)	7957.4	22.0	B4/8500		
BH (60°-80°)	8288.5	23.0	B5		G4/12000
BVH (80°-90°)	106.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6
2.5°	3854.0	3899.3	3932.3	3928.1	3940.5	3952.9	3936.4	3961.1	3944.6	3973.5
5°	3928.1	3915.8	3919.9	3895.2	3952.9	3886.9	3886.9	3919.9	3961.1	3911.7
7.5°	3882.8	3874.6	3854.0	3891.0	3903.4	3903.4	3936.4	3874.6	3944.6	3961.1
10°	3833.3	3788.0	3849.8	3886.9	3895.2	3829.2	3858.1	3874.6	3854.0	3874.6
12.5°	3792.1	3816.9	3816.9	3816.9	3804.5	3849.8	3878.7	3874.6	3833.3	3870.4
15°	3788.0	3775.6	3812.7	3845.7	3825.1	3833.3	3845.7	3882.8	3804.5	3821.0
17.5°	3783.9	3800.4	3812.7	3808.6	3878.7	3878.7	3866.3	3841.6	3903.4	3870.4
20°	3800.4	3788.0	3821.0	3833.3	3882.8	3981.7	3944.6	3924.0	3891.0	3849.8
22.5°	3821.0	3812.7	3858.1	3911.7	4006.5	4031.2	4027.1	4002.3	3944.6	3895.2
25°	3895.2	3821.0	3870.4	3973.5	4006.5	4055.9	4088.9	4055.9	3977.6	3990.0
27.5°	4006.5	3994.1	4060.0	4130.1	4101.3	4146.6	4117.8	4142.5	4146.6	4084.8
30°	4138.4	4101.3	4142.5	4278.5	4290.9	4340.3	4290.9	4224.9	4245.5	4191.9
32.5°	4328.0	4315.6	4393.9	4484.6	4501.1	4476.4	4451.6	4488.7	4402.2	4360.9
35°	4451.6	4505.2	4600.0	4670.1	4723.7	4698.9	4711.3	4674.2	4694.8	4608.3
37.5°	4818.5	4797.9	4818.5	4938.0	4950.4	4938.0	4950.4	4991.6	4962.7	4888.5
40°	5164.7	5131.7	5181.2	5317.2	5309.0	5350.2	5267.8	5313.1	5313.1	5173.0
42.5°	5424.4	5535.7	5593.4	5704.7	5745.9	5708.8	5692.3	5700.6	5791.2	5626.4
45°	5960.2	5956.1	6129.2	6191.1	6075.6	6067.4	6034.4	6133.3	6195.2	6100.4
47.5°	6541.4	6570.3	6669.2	6693.9	6764.0	6636.2	6636.2	6648.6	6867.0	6644.5
50°	7064.9	7102.0	7299.8	7493.6	7361.7	7225.6	7279.2	7345.2	7464.7	7254.5
52.5°	7699.7	7901.6	8033.5	8136.6	8231.4	8136.6	8012.9	8087.1	8322.1	8041.8
55°	8614.7	8775.5	8899.1	9088.7	9167.0	9039.3	9026.9	9018.7	9150.6	8853.8
57.5°	9636.9	9571.0	9768.8	10061.5	10345.9	10222.2	10185.2	10193.4	10226.4	9805.9
60°	10906.5	10980.7	11215.6	11471.2	11772.1	11945.2	11702.0	11561.9	11590.7	11017.8
62.5°	11631.9	11796.8	12328.5	13206.5	13812.4	14352.4	14389.5	13478.5	12868.5	11755.6
65°	11281.6	11256.8	12258.5	13882.5	16178.4	17748.8	17513.8	15304.5	13173.5	11405.2
67.5°	9595.7	9529.8	10741.6	13317.8	17109.9	20539.3	20271.4	15819.8	12143.0	10090.3
70°	6182.8	6166.3	7481.2	10152.2	15275.7	18857.6	18956.5	14368.9	9884.3	7390.5
72.5°	2246.4	2382.4	3145.0	5457.4	10374.8	14426.6	14488.4	10638.6	5684.1	3417.0
75°	828.5	853.2	993.4	1772.4	4727.8	8857.9	9088.7	5160.6	2019.7	1112.9
77.5°	478.1	482.3	531.7	659.5	1401.4	3458.3	3598.4	1566.3	783.2	593.5
80°	325.6	321.5	375.1	428.7	560.6	981.0	1042.8	655.4	494.6	412.2
82.5°	189.6	202.0	276.2	305.0	342.1	432.8	441.0	408.1	371.0	305.0
85°	115.4	94.8	152.5	169.0	197.8	193.7	193.7	222.6	239.1	214.3
87.5°	28.9	28.9	37.1	41.2	53.6	41.2	45.3	86.6	115.4	107.2
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°
3944.6	0°	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6
3990.0	2.5°	3952.9	3940.5	3948.8	3994.1	3965.2	3878.7	3899.3	3944.6	3907.5	3886.9
3940.5	5°	3936.4	3961.1	3932.3	3940.5	3969.4	3899.3	3911.7	3969.4	3944.6	3952.9
3965.2	7.5°	3940.5	3952.9	3928.1	3891.0	3891.0	3948.8	3915.8	3924.0	3886.9	3948.8
3886.9	10°	3915.8	3882.8	3854.0	3874.6	3866.3	3849.8	3837.5	3862.2	3825.1	3878.7
3804.5	12.5°	3841.6	3849.8	3841.6	3833.3	3849.8	3891.0	3825.1	3833.3	3775.6	3783.9
3821.0	15°	3812.7	3837.5	3829.2	3874.6	3895.2	3833.3	3882.8	3833.3	3788.0	3763.3
3825.1	17.5°	3825.1	3862.2	3849.8	3882.8	3845.7	3891.0	3899.3	3878.7	3825.1	3804.5
3849.8	20°	3837.5	3825.1	3841.6	3899.3	3952.9	3907.5	3907.5	3895.2	3845.7	3816.9
3886.9	22.5°	3866.3	3845.7	3870.4	3915.8	3932.3	4002.3	3940.5	3911.7	3829.2	3755.0
3915.8	25°	3924.0	3936.4	3952.9	3936.4	4027.1	4018.8	4010.6	3990.0	3862.2	3866.3
4010.6	27.5°	4035.3	3965.2	3985.9	4084.8	4097.1	4130.1	4088.9	4126.0	3990.0	3994.1
4154.8	30°	4171.3	4097.1	4163.1	4249.7	4245.5	4307.4	4286.7	4295.0	4200.2	4146.6
4295.0	32.5°	4319.7	4311.5	4352.7	4406.3	4426.9	4459.9	4455.7	4455.7	4398.0	4257.9
4579.4	35°	4484.6	4542.3	4591.8	4649.5	4657.7	4698.9	4641.2	4649.5	4591.8	4488.7
4814.3	37.5°	4810.2	4806.1	4859.7	4929.8	4938.0	4905.0	4950.4	4929.8	4851.4	4781.4
5144.1	40°	5189.4	5107.0	5156.5	5321.3	5333.7	5276.0	5271.9	5267.8	5210.0	5057.5
5564.5	42.5°	5519.2	5626.4	5618.1	5671.7	5634.6	5605.7	5708.8	5651.1	5605.7	5445.0
6075.6	45°	5943.7	5976.7	6083.9	6257.0	6079.8	6079.8	6149.8	6104.5	6079.8	5960.2
6529.0	47.5°	6471.3	6500.2	6714.5	6726.9	6611.5	6533.2	6751.6	6759.9	6656.8	6566.1
7155.6	50°	7089.6	7102.0	7295.7	7493.6	7365.8	7217.4	7440.0	7526.5	7295.7	7172.1
7918.1	52.5°	7769.7	7732.6	7893.4	8264.4	8140.7	8095.4	8334.4	8355.0	8041.8	7848.0
8684.8	55°	8552.9	8503.4	8940.3	9191.8	9113.5	9031.0	9138.2	9187.7	8936.2	8618.8
9678.2	57.5°	9566.9	9591.6	9810.1	10057.4	10185.2	10205.8	10255.2	10205.8	9950.2	9628.7
10819.9	60°	10580.9	10655.0	11079.6	11545.4	11586.6	11949.3	11883.4	11636.1	11273.3	10815.8
10914.7	62.5°	10955.9	10894.1	11578.3	12716.0	13684.6	14348.2	14055.6	13177.6	12336.8	11504.2
10275.8	65°	10201.6	10354.1	11285.7	13066.3	15168.5	17794.1	16236.1	13808.3	12110.1	11034.3
8812.6	67.5°	8792.0	8907.4	10090.3	11969.9	15700.2	19912.8	17060.4	12918.0	10679.8	9286.6
6125.1	70°	6125.1	6182.8	7341.1	9805.9	14237.0	18791.6	15391.1	9921.4	7374.0	5877.8
2518.5	72.5°	2464.9	2605.0	3367.6	5906.6	10510.8	14278.2	10362.4	5205.9	3058.4	2275.3
906.8	75°	910.9	915.1	1075.8	2032.1	4991.6	8973.3	4674.2	1673.5	976.9	799.6
548.2	77.5°	527.6	523.5	560.6	733.7	1446.8	3503.6	1327.2	655.4	531.7	478.1
346.2	80°	329.7	325.6	383.3	486.4	634.8	960.4	560.6	408.1	358.6	309.1
226.7	82.5°	210.2	214.3	300.9	358.6	387.5	424.6	325.6	288.5	267.9	177.2
127.8	85°	136.0	123.7	210.2	239.1	214.3	189.6	181.4	152.5	140.1	86.6
65.9	87.5°	61.8	65.9	107.2	119.5	78.3	45.3	45.3	33.0	33.0	20.6
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>
3944.6
3882.8
3907.5
3866.3
3821.0
3812.7
3808.6
3825.1
3816.9
3825.1
3854.0
3911.7
4035.3
4278.5
4521.7
4727.8
5024.6
5416.1
5848.9
6430.1
7003.1
7893.4
8730.1
9525.7
10836.4
11566.0
10914.7
9360.8
5960.2
2065.1
762.5
457.5
309.1
173.1
94.8
20.6
0.0

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