

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: P574884

Luminaire Tested: **EPH-VN-04-730-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574884
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-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

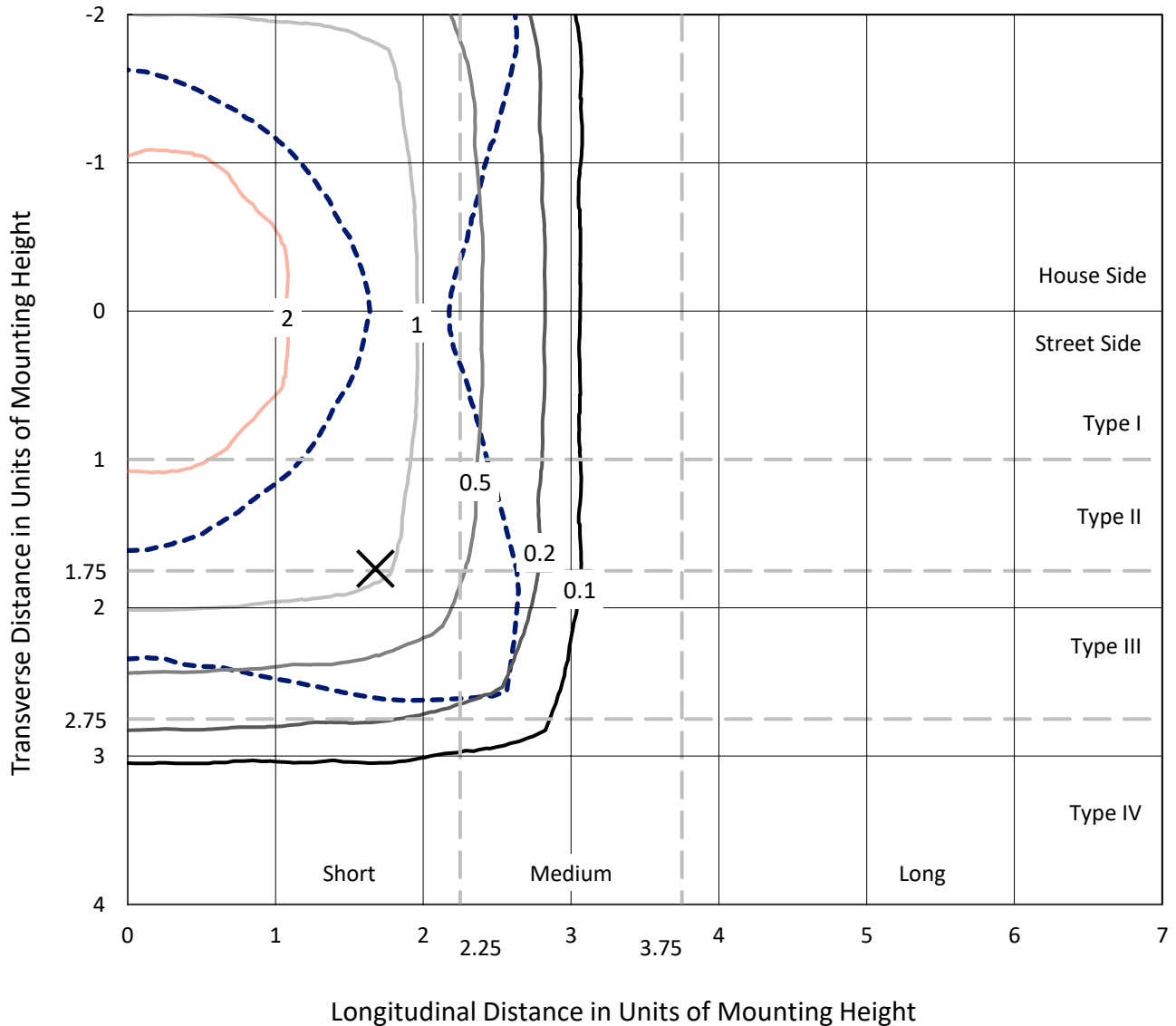
Lumens per Lamp: N/A
Luminaire Lumens: 32147.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

REPORT NUMBER: P574884
 CATALOG NUMBER: EPH-VN-04-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

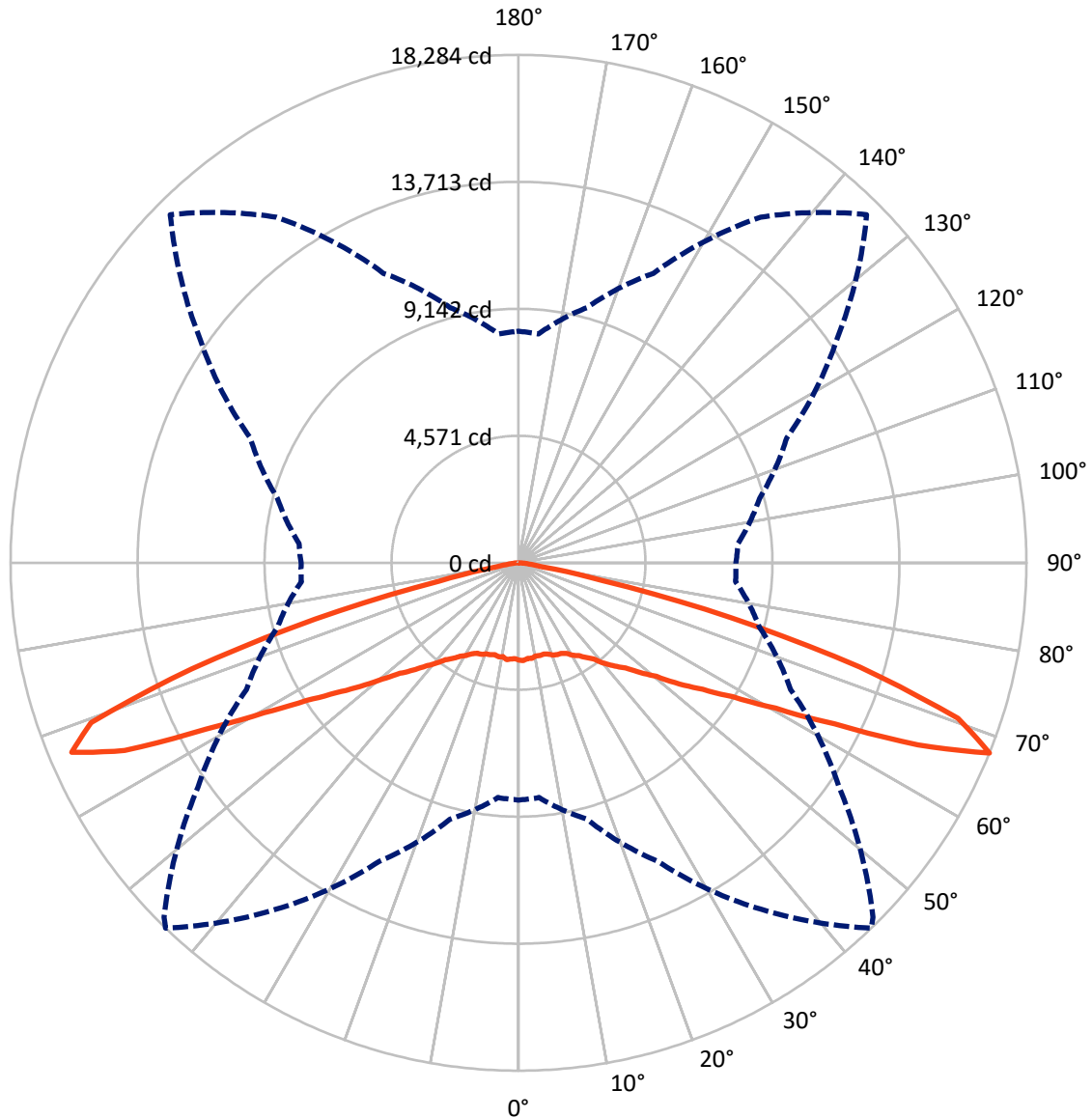
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P574884
CATALOG NUMBER: EPH-VN-04-730-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P574884

CATALOG NUMBER: EPH-VN-04-730-U-5MQ

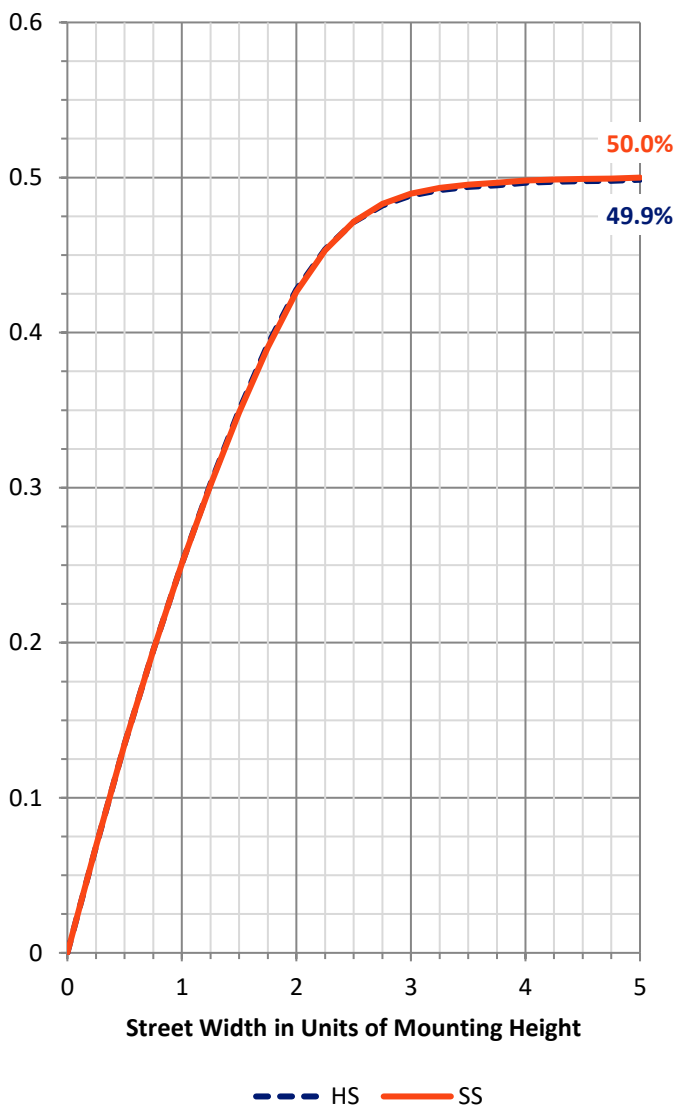
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16032.6	0.0	16032.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16114.9	0.0	16114.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	32147.6	0.0	32147.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.0
10°-20°	970.8	3.0
20°-30°	1650.9	5.1
30°-40°	2617.6	8.1
40°-50°	4268.2	13.3
50°-60°	7289.5	22.7
60°-70°	11087.2	34.5
70°-80°	3737.1	11.6
80°-90°	194.0	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°	32147.6	100.0
0°-180°	32147.6	100.0

Coefficient of Utilization



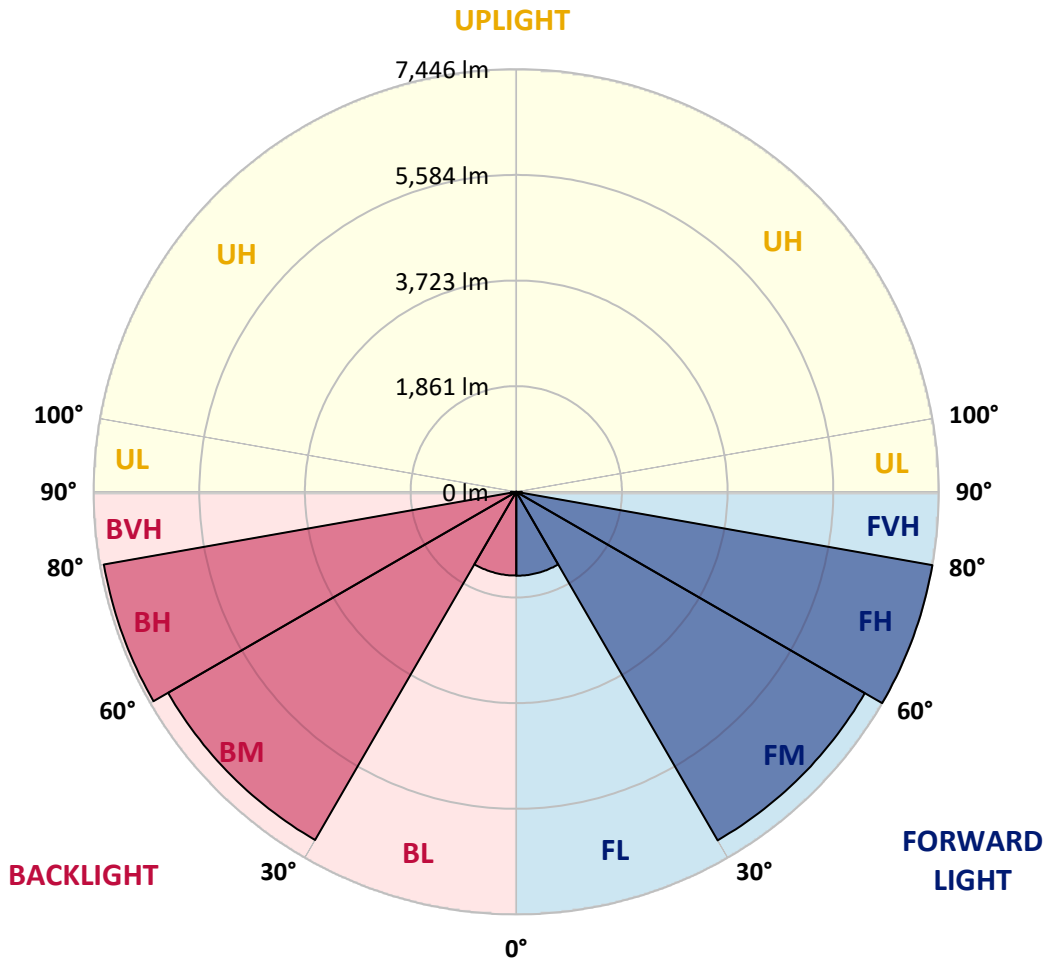
REPORT NUMBER: P574884
 CATALOG NUMBER: EPH-VN-04-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.5	4.6			
FM (30°-60°)	7091.5	22.1			
FH (60°-80°)	7445.7	23.2			G3/7500
FVH (80°-90°)	99.3	0.3			G1/100
BL (0°-30°)	1475.5	4.6	B3/2500		
BM (30°-60°)	7083.8	22.0	B4/8500		
BH (60°-80°)	7378.6	23.0	B5		G3/7500
BVH (80°-90°)	94.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P574884
 CATALOG NUMBER: EPH-VN-04-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6
2.5°	3430.8	3471.2	3500.6	3496.9	3507.9	3518.9	3504.2	3526.2	3511.6	3537.3
5°	3496.9	3485.9	3489.6	3467.5	3518.9	3460.2	3460.2	3489.6	3526.2	3482.2
7.5°	3456.5	3449.2	3430.8	3463.9	3474.9	3474.9	3504.2	3449.2	3511.6	3526.2
10°	3412.5	3372.1	3427.2	3460.2	3467.5	3408.8	3434.5	3449.2	3430.8	3449.2
12.5°	3375.8	3397.8	3397.8	3397.8	3386.8	3427.2	3452.9	3449.2	3412.5	3445.5
15°	3372.1	3361.1	3394.1	3423.5	3405.2	3412.5	3423.5	3456.5	3386.8	3401.5
17.5°	3368.5	3383.1	3394.1	3390.5	3452.9	3452.9	3441.9	3419.8	3474.9	3445.5
20°	3383.1	3372.1	3401.5	3412.5	3456.5	3544.6	3511.6	3493.2	3463.9	3427.2
22.5°	3401.5	3394.1	3434.5	3482.2	3566.6	3588.6	3585.0	3562.9	3511.6	3467.5
25°	3467.5	3401.5	3445.5	3537.3	3566.6	3610.6	3640.0	3610.6	3540.9	3551.9
27.5°	3566.6	3555.6	3614.3	3676.7	3651.0	3691.4	3665.7	3687.7	3691.4	3636.3
30°	3684.0	3651.0	3687.7	3808.8	3819.8	3863.8	3819.8	3761.1	3779.4	3731.7
32.5°	3852.8	3841.8	3911.5	3992.3	4006.9	3984.9	3962.9	3995.9	3918.9	3882.2
35°	3962.9	4010.6	4095.0	4157.4	4205.1	4183.1	4194.1	4161.0	4179.4	4102.3
37.5°	4289.5	4271.1	4289.5	4395.9	4406.9	4395.9	4406.9	4443.6	4417.9	4351.9
40°	4597.7	4568.3	4612.4	4733.5	4726.1	4762.8	4689.4	4729.8	4729.8	4605.0
42.5°	4828.9	4927.9	4979.3	5078.4	5115.1	5082.1	5067.4	5074.7	5155.4	5008.7
45°	5305.9	5302.2	5456.3	5511.4	5408.6	5401.3	5371.9	5460.0	5515.0	5430.6
47.5°	5823.3	5848.9	5937.0	5959.0	6021.4	5907.7	5907.7	5918.7	6113.1	5915.0
50°	6289.3	6322.3	6498.4	6670.9	6553.5	6432.4	6480.1	6538.8	6645.2	6458.1
52.5°	6854.3	7034.1	7151.6	7243.3	7327.7	7243.3	7133.2	7199.3	7408.4	7158.9
55°	7668.9	7812.0	7922.1	8090.9	8160.6	8046.9	8035.9	8028.5	8146.0	7881.8
57.5°	8578.9	8520.2	8696.4	8956.9	9210.1	9100.0	9067.0	9074.3	9103.7	8729.4
60°	9709.1	9775.2	9984.3	10211.8	10479.7	10633.8	10417.3	10292.5	10318.2	9808.2
62.5°	10354.9	10501.7	10975.0	11756.6	12296.0	12776.7	12809.7	11998.8	11455.7	10465.0
65°	10043.0	10021.0	10912.6	12358.4	14402.2	15800.2	15591.1	13624.3	11727.2	10153.1
67.5°	8542.2	8483.5	9562.3	11855.7	15231.5	18284.4	18045.9	14083.0	10809.9	8982.6
70°	5504.0	5489.3	6659.9	9037.6	13598.6	16787.3	16875.3	12791.4	8799.1	6579.1
72.5°	1999.8	2120.9	2799.7	4858.2	9235.8	12842.7	12897.8	9470.6	5060.0	3041.9
75°	737.5	759.6	884.3	1577.8	4208.7	7885.4	8090.9	4594.0	1798.0	990.7
77.5°	425.6	429.3	473.3	587.1	1247.6	3078.6	3203.3	1394.4	697.2	528.4
80°	289.9	286.2	333.9	381.6	499.0	873.3	928.3	583.4	440.3	366.9
82.5°	168.8	179.8	245.8	271.5	304.6	385.3	392.6	363.3	330.2	271.5
85°	102.7	84.4	135.8	150.4	176.1	172.5	172.5	198.1	212.8	190.8
87.5°	25.7	25.7	33.0	36.7	47.7	36.7	40.4	77.1	102.7	95.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574884

CATALOG NUMBER: EPH-VN-04-730-U-5MQ

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3511.6	0°	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6	3511.6
3551.9	2.5°	3518.9	3507.9	3515.2	3555.6	3529.9	3452.9	3471.2	3511.6	3478.5	3460.2
3507.9	5°	3504.2	3526.2	3500.6	3507.9	3533.6	3471.2	3482.2	3533.6	3511.6	3518.9
3529.9	7.5°	3507.9	3518.9	3496.9	3463.9	3463.9	3515.2	3485.9	3493.2	3460.2	3515.2
3460.2	10°	3485.9	3456.5	3430.8	3449.2	3441.9	3427.2	3416.2	3438.2	3405.2	3452.9
3386.8	12.5°	3419.8	3427.2	3419.8	3412.5	3427.2	3463.9	3405.2	3412.5	3361.1	3368.5
3401.5	15°	3394.1	3416.2	3408.8	3449.2	3467.5	3412.5	3456.5	3412.5	3372.1	3350.1
3405.2	17.5°	3405.2	3438.2	3427.2	3456.5	3423.5	3463.9	3471.2	3452.9	3405.2	3386.8
3427.2	20°	3416.2	3405.2	3419.8	3471.2	3518.9	3478.5	3478.5	3467.5	3423.5	3397.8
3460.2	22.5°	3441.9	3423.5	3445.5	3485.9	3500.6	3562.9	3507.9	3482.2	3408.8	3342.8
3485.9	25°	3493.2	3504.2	3518.9	3504.2	3585.0	3577.6	3570.3	3551.9	3438.2	3441.9
3570.3	27.5°	3592.3	3529.9	3548.3	3636.3	3647.3	3676.7	3640.0	3673.0	3551.9	3555.6
3698.7	30°	3713.4	3647.3	3706.0	3783.1	3779.4	3834.5	3816.1	3823.5	3739.1	3691.4
3823.5	32.5°	3845.5	3838.1	3874.8	3922.5	3940.9	3970.2	3966.6	3966.6	3915.2	3790.4
4076.6	35°	3992.3	4043.6	4087.7	4139.0	4146.4	4183.1	4131.7	4139.0	4087.7	3995.9
4285.8	37.5°	4282.1	4278.5	4326.2	4388.5	4395.9	4366.5	4406.9	4388.5	4318.8	4256.4
4579.4	40°	4619.7	4546.3	4590.4	4737.1	4748.1	4696.8	4693.1	4689.4	4638.1	4502.3
4953.6	42.5°	4913.3	5008.7	5001.3	5049.0	5016.0	4990.3	5082.1	5030.7	4990.3	4847.2
5408.6	45°	5291.2	5320.6	5416.0	5570.1	5412.3	5412.3	5474.7	5434.3	5412.3	5305.9
5812.3	47.5°	5760.9	5786.6	5977.4	5988.4	5885.6	5815.9	6010.4	6017.7	5926.0	5845.3
6370.0	50°	6311.3	6322.3	6494.8	6670.9	6557.1	6425.0	6623.2	6700.2	6494.8	6384.7
7048.8	52.5°	6916.7	6883.7	7026.8	7357.0	7247.0	7206.6	7419.4	7437.8	7158.9	6986.4
7731.3	55°	7613.9	7569.9	7958.8	8182.7	8112.9	8039.5	8135.0	8179.0	7955.2	7672.6
8615.6	57.5°	8516.6	8538.6	8733.1	8953.2	9067.0	9085.3	9129.3	9085.3	8857.8	8571.6
9632.0	60°	9419.2	9485.3	9863.2	10277.9	10314.5	10637.4	10578.7	10358.6	10035.7	9628.4
9716.4	62.5°	9753.1	9698.1	10307.2	11319.9	12182.2	12773.0	12512.5	11730.9	10982.4	10241.2
9147.7	65°	9081.6	9217.4	10046.7	11631.8	13503.2	15840.6	14453.6	12292.3	10780.6	9822.9
7845.1	67.5°	7826.7	7929.5	8982.6	10655.8	13976.6	17726.6	15187.4	11499.7	9507.3	8267.0
5452.7	70°	5452.7	5504.0	6535.1	8729.4	12673.9	16728.6	13701.4	8832.1	6564.5	5232.5
2242.0	72.5°	2194.3	2319.0	2997.9	5258.2	9356.8	12710.6	9224.7	4634.4	2722.7	2025.5
807.3	75°	810.9	814.6	957.7	1809.0	4443.6	7988.2	4161.0	1489.8	869.6	711.9
488.0	77.5°	469.7	466.0	499.0	653.1	1287.9	3118.9	1181.5	583.4	473.3	425.6
308.2	80°	293.5	289.9	341.2	433.0	565.1	855.0	499.0	363.3	319.2	275.2
201.8	82.5°	187.1	190.8	267.9	319.2	344.9	377.9	289.9	256.9	238.5	157.8
113.7	85°	121.1	110.1	187.1	212.8	190.8	168.8	161.5	135.8	124.8	77.1
58.7	87.5°	55.0	58.7	95.4	106.4	69.7	40.4	40.4	29.4	29.4	18.3
0.0	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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180°
3511.6
3456.5
3478.5
3441.9
3401.5
3394.1
3390.5
3405.2
3397.8
3405.2
3430.8
3482.2
3592.3
3808.8
4025.3
4208.7
4472.9
4821.5
5206.8
5724.2
6234.2
7026.8
7771.7
8479.9
9646.7
10296.2
9716.4
8333.1
5305.9
1838.3
678.8
407.3
275.2
154.1
84.4
18.3
0.0

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