

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: P574861

Luminaire Tested: **EPH-VN-03-750-U-5NQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574861  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-750-U-5NQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

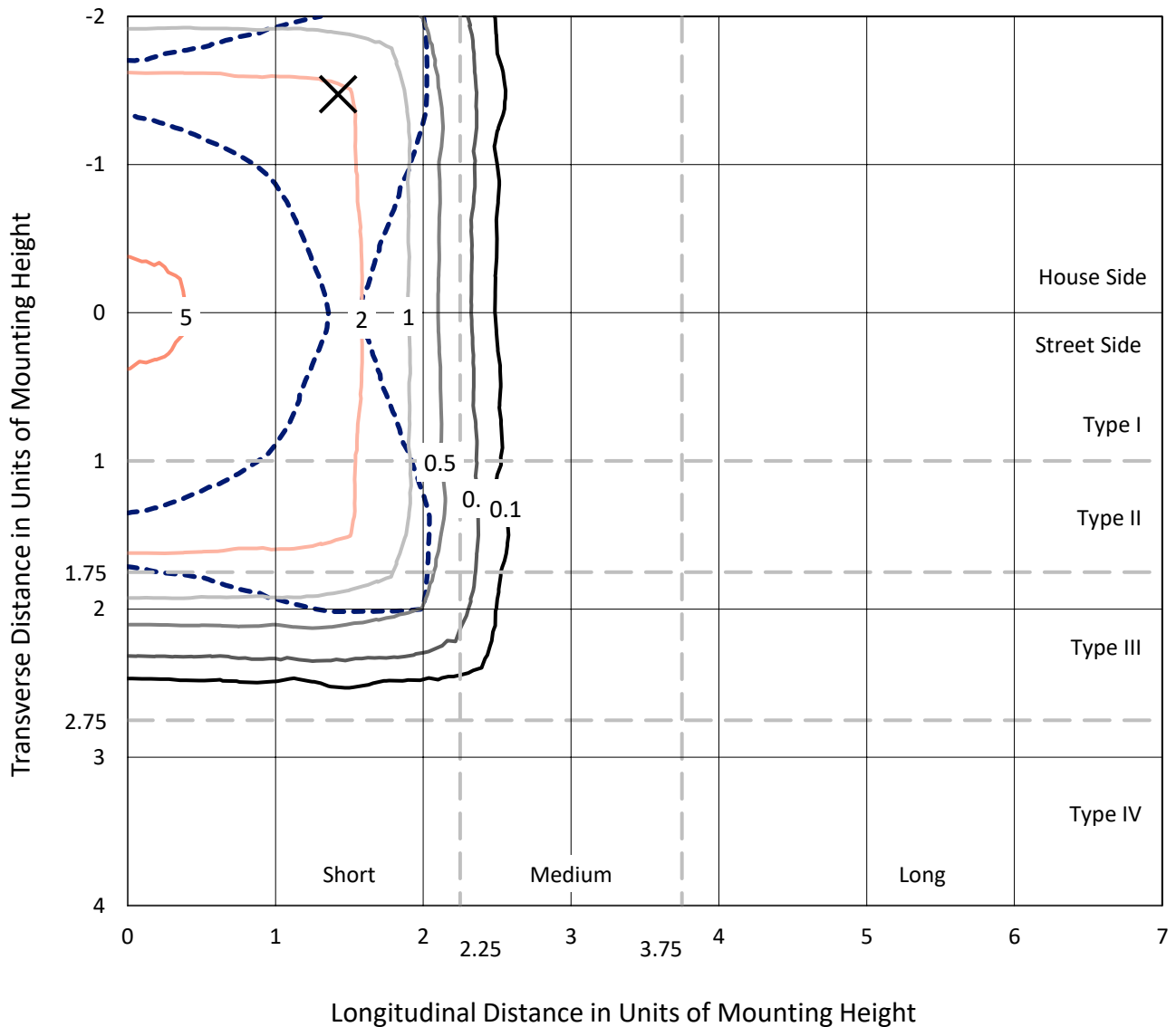
Lumens per Lamp: N/A  
Luminaire Lumens: 27518.6 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1  
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

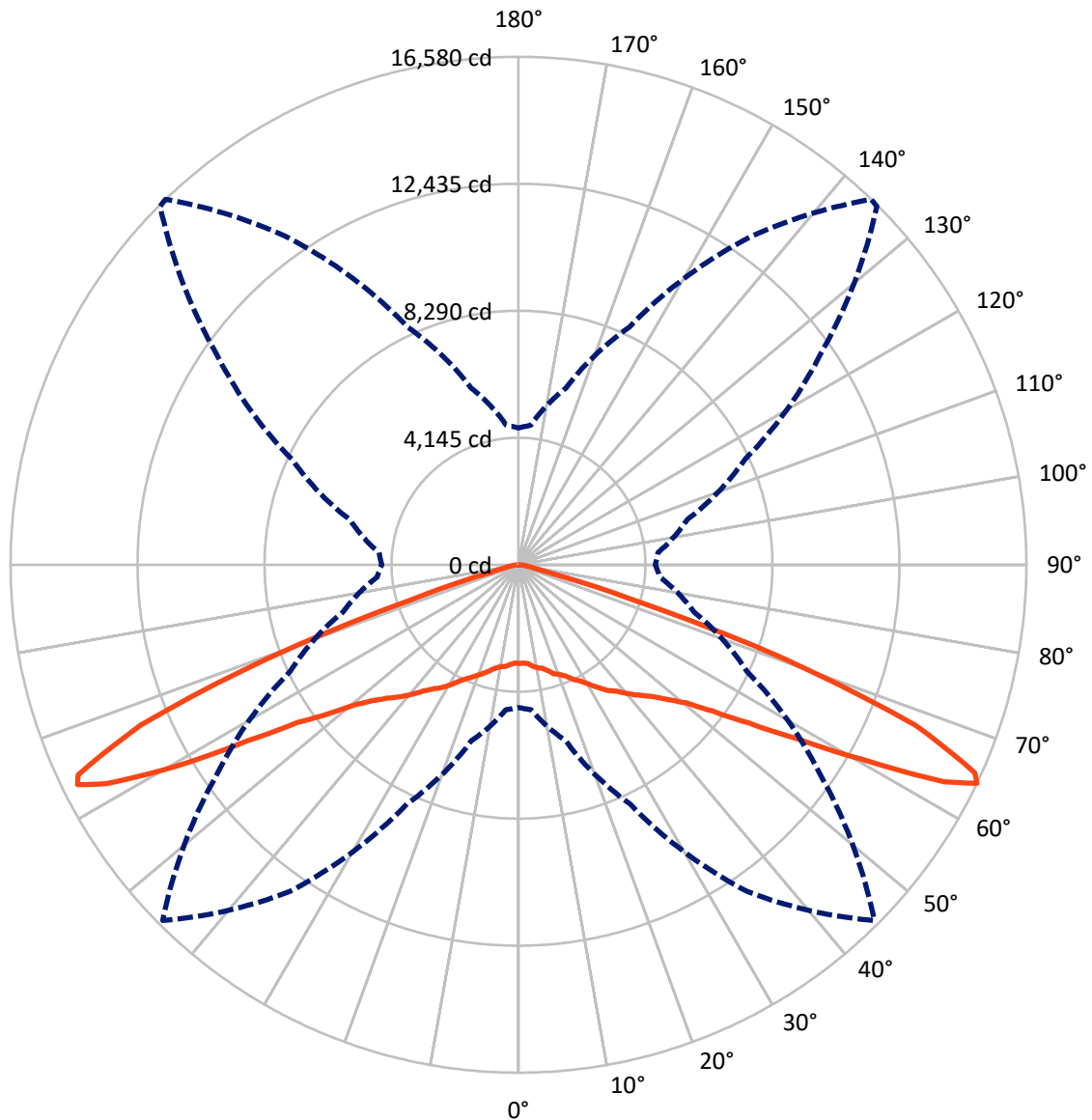
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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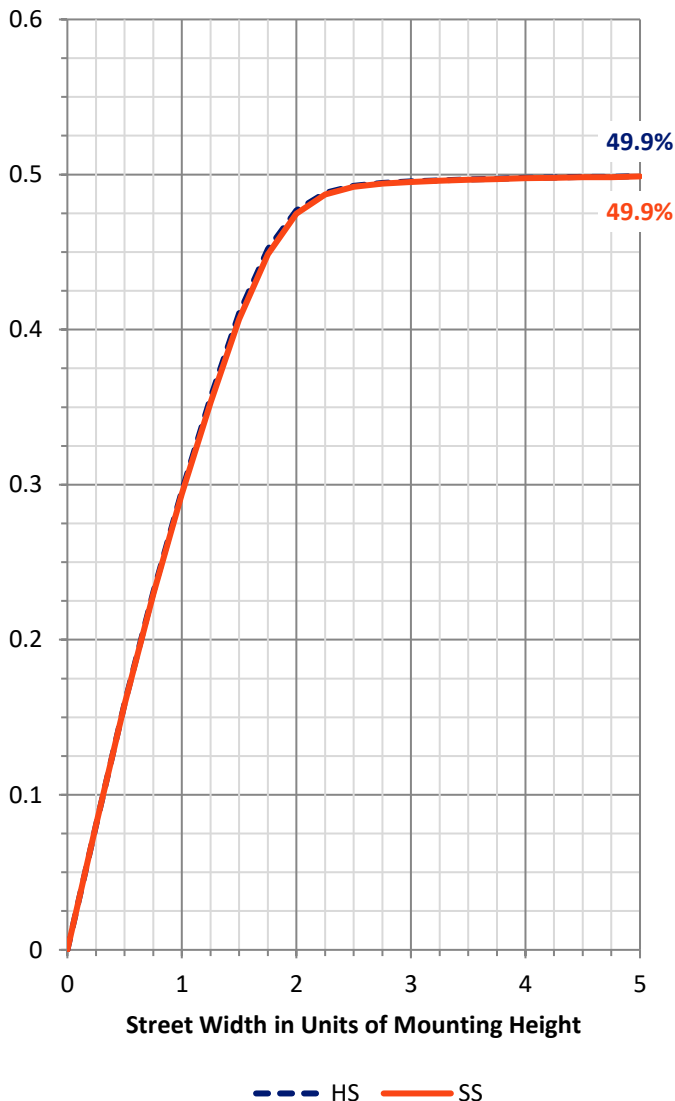
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13772.4	0.0	13772.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13746.2	0.0	13746.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27518.6	0.0	27518.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.6	1.2
10°-20°	1020.3	3.7
20°-30°	1917.6	7.0
30°-40°	3162.4	11.5
40°-50°	4945.8	18.0
50°-60°	7991.2	29.0
60°-70°	7195.6	26.1
70°-80°	852.4	3.1
80°-90°	116.7	0.4
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°	27518.6	100.0
0°-180°	27518.6	100.0



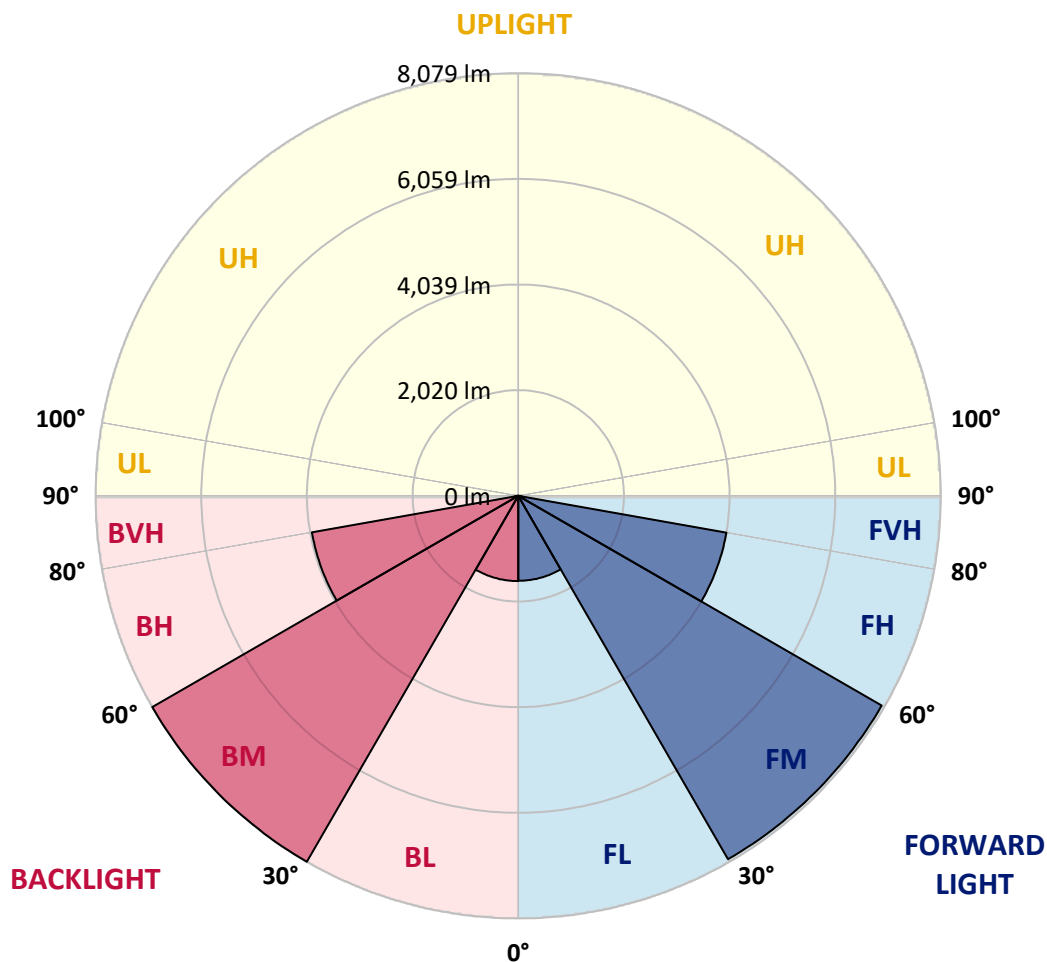
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.1	5.9			
FM (30°-60°)	8020.8	29.1			
FH (60°-80°)	4041.4	14.7			G2/5000
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	1630.4	5.9	B3/2500		
BM (30°-60°)	8078.7	29.4	B4/8500		
BH (60°-80°)	4006.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	56.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9
2.5°	3184.0	3190.3	3247.1	3225.0	3243.9	3209.2	3234.5	3288.1	3225.0	3272.3
5°	3218.7	3228.2	3228.2	3250.3	3262.9	3256.6	3272.3	3250.3	3310.2	3285.0
7.5°	3344.9	3329.1	3303.9	3322.8	3326.0	3341.8	3357.5	3385.9	3376.5	3354.4
10°	3367.0	3354.4	3392.3	3395.4	3379.6	3367.0	3382.8	3382.8	3411.2	3417.5
12.5°	3404.9	3417.5	3414.3	3439.6	3442.7	3433.3	3458.5	3505.9	3493.2	3502.7
15°	3550.0	3534.3	3531.1	3556.4	3597.4	3537.4	3581.6	3578.4	3565.8	3584.8
17.5°	3676.3	3625.8	3647.9	3688.9	3673.1	3685.7	3742.5	3692.0	3704.7	3682.6
20°	3786.7	3745.7	3748.8	3764.6	3764.6	3802.5	3824.6	3805.6	3793.0	3789.9
22.5°	3909.8	3862.4	3865.6	3931.9	3954.0	3941.3	3925.6	3957.1	3963.4	3938.2
25°	4001.3	4051.8	4067.6	4099.1	4051.8	4086.5	4073.9	4133.8	4171.7	4121.2
27.5°	4241.1	4219.0	4260.0	4256.9	4294.8	4260.0	4282.1	4301.1	4316.8	4320.0
30°	4455.7	4465.2	4424.1	4534.6	4446.2	4503.0	4540.9	4550.4	4569.3	4569.3
32.5°	4682.9	4664.0	4730.2	4705.0	4689.2	4733.4	4692.4	4821.7	4746.0	4790.2
35°	4938.5	4938.5	4963.7	5033.2	4938.5	4910.1	4985.8	5039.5	5039.5	4960.6
37.5°	5225.7	5200.4	5232.0	5320.3	5247.7	5153.1	5291.9	5314.0	5298.2	5276.1
40°	5427.6	5421.3	5484.4	5601.2	5497.0	5478.1	5503.4	5563.3	5582.2	5604.3
42.5°	5768.4	5796.8	5979.8	5951.4	5866.2	5800.0	5793.7	6017.7	5964.1	5907.3
45°	6273.3	6248.1	6342.7	6345.9	6235.4	6090.3	6121.8	6327.0	6418.5	6292.2
47.5°	6674.1	6686.7	6753.0	6888.7	6633.1	6481.6	6598.3	6929.7	6901.3	6853.9
50°	7210.5	7267.3	7475.6	7428.3	7201.1	7014.9	7270.5	7582.9	7617.6	7444.0
52.5°	7952.1	8040.4	8154.0	8191.9	7974.2	7907.9	7923.7	8311.8	8226.6	8059.4
55°	8602.1	8643.2	8851.4	9163.8	9148.1	8829.3	9012.4	9157.5	8810.4	8466.5
57.5°	8879.8	8898.8	9479.4	10104.2	10476.6	10549.1	10340.9	9851.8	9025.0	8362.3
60°	8188.8	8368.6	9069.2	10479.7	12180.6	13020.0	11634.7	9930.6	8523.3	7718.6
62.5°	6544.7	6554.2	7595.5	9735.0	13240.9	15440.3	12130.1	9189.1	7185.3	6273.3
64°	4660.8	4749.2	5945.1	8617.9	13020.0	16424.9	12070.1	8220.3	5923.0	4629.3
65°	3344.9	3468.0	4622.9	7481.9	12502.5	16308.1	11890.3	7387.2	4790.2	3534.3
67.5°	1230.7	1281.2	1814.5	3742.5	8977.7	13897.2	9422.6	4061.2	2104.8	1498.9
70°	571.2	574.3	672.1	1237.0	3925.6	9293.2	4496.7	1524.2	792.1	628.0
72.5°	419.7	429.2	470.2	571.2	1154.9	3935.0	1476.8	624.8	463.9	410.2
75°	340.8	347.1	359.7	413.4	533.3	1054.0	599.6	432.3	369.2	331.3
77.5°	261.9	261.9	290.3	315.6	353.4	492.3	397.6	344.0	299.8	261.9
80°	189.3	192.5	227.2	246.1	239.8	325.0	287.2	284.0	246.1	205.1
82.5°	110.4	119.9	164.1	176.7	170.4	192.5	208.3	220.9	192.5	142.0
85°	63.1	66.3	94.7	97.8	97.8	91.5	119.9	132.5	129.4	88.4
87.5°	18.9	18.9	25.2	25.2	28.4	31.6	47.3	56.8	63.1	44.2
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):**

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
3221.9	0°	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9
3288.1	2.5°	3272.3	3225.0	3228.2	3240.8	3199.8	3215.5	3262.9	3228.2	3218.7	3199.8
3322.8	5°	3256.6	3307.1	3288.1	3294.4	3285.0	3240.8	3234.5	3262.9	3278.7	3250.3
3392.3	7.5°	3367.0	3344.9	3319.7	3329.1	3307.1	3344.9	3370.2	3313.4	3341.8	3326.0
3417.5	10°	3430.1	3389.1	3408.0	3401.7	3385.9	3423.8	3398.6	3392.3	3367.0	3332.3
3480.6	12.5°	3452.2	3499.6	3531.1	3477.5	3486.9	3468.0	3452.2	3452.2	3423.8	3414.3
3534.3	15°	3550.0	3591.1	3578.4	3619.5	3565.8	3584.8	3603.7	3556.4	3581.6	3512.2
3666.8	17.5°	3729.9	3695.2	3739.4	3685.7	3704.7	3742.5	3682.6	3682.6	3701.5	3663.6
3796.2	20°	3843.5	3827.7	3812.0	3815.1	3783.6	3818.3	3799.3	3789.9	3761.5	3774.1
3966.6	22.5°	3950.8	3928.7	3935.0	3944.5	3966.6	3950.8	3941.3	3950.8	3881.4	3944.5
4155.9	25°	4083.3	4143.3	4124.4	4165.4	4102.3	4143.3	4140.1	4080.2	4118.0	4092.8
4304.2	27.5°	4304.2	4272.7	4301.1	4250.6	4294.8	4297.9	4260.0	4361.0	4316.8	4310.5
4522.0	30°	4588.2	4566.1	4547.2	4518.8	4553.5	4525.1	4556.7	4566.1	4525.1	4493.6
4736.5	32.5°	4749.2	4809.1	4831.2	4761.8	4764.9	4780.7	4752.3	4723.9	4749.2	4758.6
4979.5	35°	4976.4	5033.2	5045.8	4992.1	4963.7	5042.6	4985.8	5080.5	4998.5	5001.6
5238.3	37.5°	5241.4	5257.2	5364.5	5304.5	5279.3	5241.4	5345.6	5332.9	5351.9	5200.4
5553.8	40°	5541.2	5598.0	5658.0	5506.5	5503.4	5538.1	5531.8	5604.3	5569.6	5547.5
5878.9	42.5°	5869.4	5989.3	5998.8	5897.8	5834.7	5828.4	5859.9	6020.9	6024.0	5878.9
6339.6	45°	6304.9	6437.4	6402.7	6207.0	6137.6	6128.2	6282.8	6352.2	6412.2	6355.4
6898.1	47.5°	6847.6	6936.0	6910.7	6730.9	6506.8	6569.9	6721.4	6939.1	6876.0	6800.3
7412.5	50°	7428.3	7532.4	7478.8	7298.9	7084.3	7084.3	7270.5	7548.2	7529.2	7380.9
7952.1	52.5°	8072.0	8223.5	8346.5	8090.9	7911.1	7939.5	8232.9	8333.9	8286.6	8182.4
8494.9	55°	8551.7	8842.0	9094.4	9107.0	9116.5	9113.3	9189.1	9290.1	8952.4	8785.2
8321.3	57.5°	8434.9	8984.0	9848.6	10435.5	10609.1	10700.6	10675.4	10208.3	9410.0	8860.9
7658.6	60°	7601.8	8498.0	9892.8	11776.7	13038.9	12912.7	12452.0	10605.9	9157.5	8229.8
6033.5	62.5°	6065.0	7144.3	9151.2	12155.3	15632.8	15594.9	13184.1	9687.7	7630.2	6456.3
4462.0	64°	4569.3	5705.3	8163.5	12057.5	16541.6	16579.5	12997.9	8558.0	5970.4	4569.3
3363.9	65°	3496.4	4550.4	7194.7	11855.6	16346.0	16368.0	12480.4	7390.4	4537.7	3243.9
1347.4	67.5°	1391.6	1937.5	3903.5	8990.3	14036.1	13976.1	8905.1	3575.3	1735.6	1129.7
583.8	70°	593.3	738.4	1369.5	4260.0	9397.3	9223.8	3834.0	1161.3	643.7	539.6
400.8	72.5°	407.1	451.2	586.9	1315.9	3906.6	3815.1	1091.8	539.6	438.6	403.9
318.7	75°	328.2	359.7	426.0	552.2	1035.0	997.2	514.4	397.6	350.3	325.0
252.4	77.5°	255.6	287.2	334.5	381.8	473.3	470.2	344.0	299.8	271.4	252.4
189.3	80°	202.0	233.5	265.1	271.4	309.2	302.9	233.5	236.7	220.9	183.0
129.4	82.5°	138.8	189.3	211.4	192.5	183.0	183.0	167.2	167.2	154.6	113.6
78.9	85°	85.2	126.2	132.5	113.6	85.2	85.2	91.5	88.4	82.0	60.0
41.0	87.5°	44.2	60.0	53.6	44.2	28.4	28.4	25.2	18.9	18.9	15.8
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°
3221.9
3190.3
3307.1
3294.4
3382.8
3423.8
3565.8
3616.3
3799.3
3856.1
4073.9
4297.9
4433.6
4749.2
4916.4
5276.1
5493.9
5815.8
6301.7
6737.2
7324.1
8135.1
8614.8
8917.7
8113.0
6383.8
4458.8
3124.0
1107.6
536.5
403.9
321.9
246.1
179.9
104.1
56.8
15.8
0.0

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