

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: P574895

Luminaire Tested: **EPH-VN-03-740-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574895  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

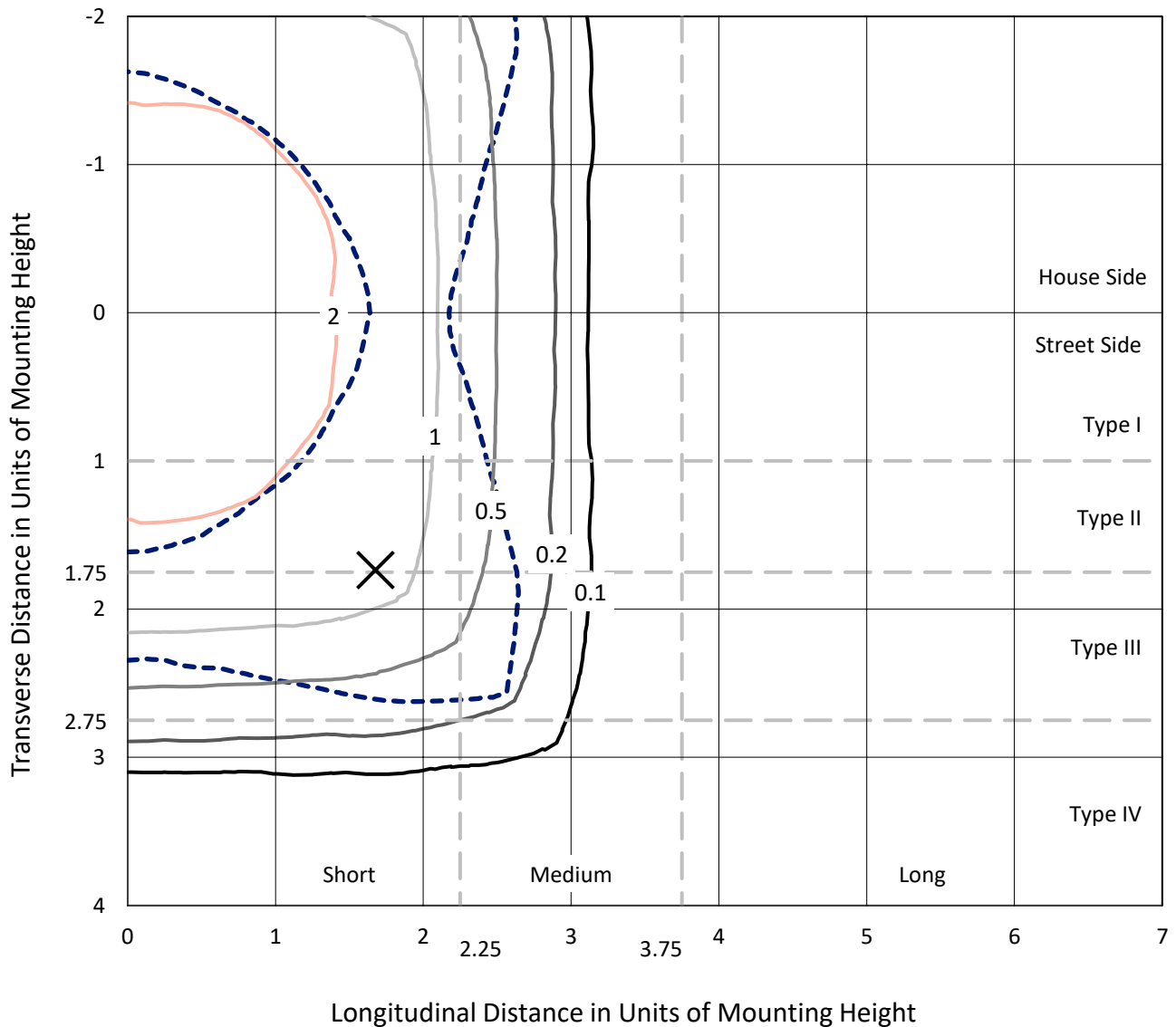
Lumens per Lamp: N/A  
Luminaire Lumens: 27227.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

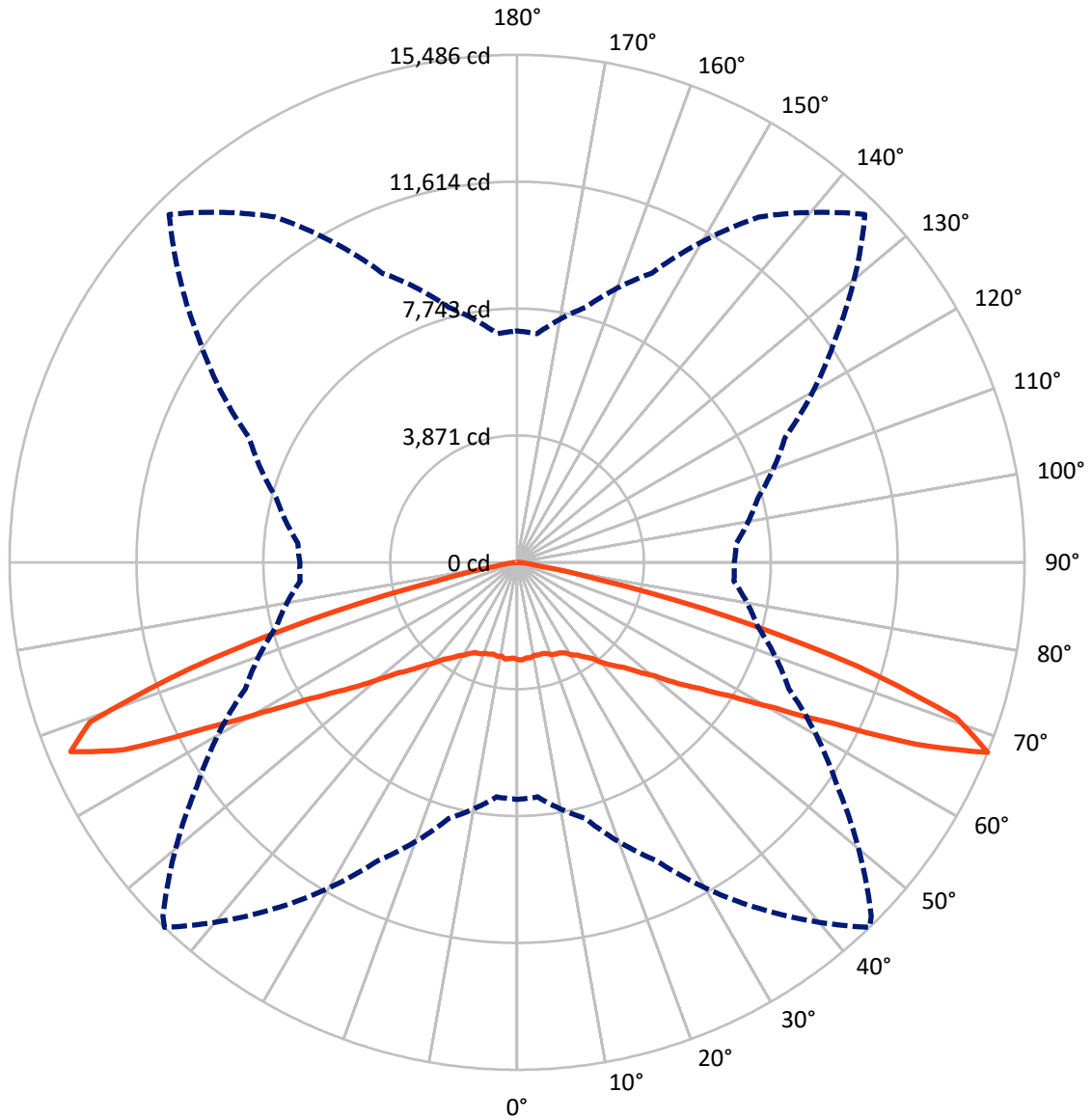
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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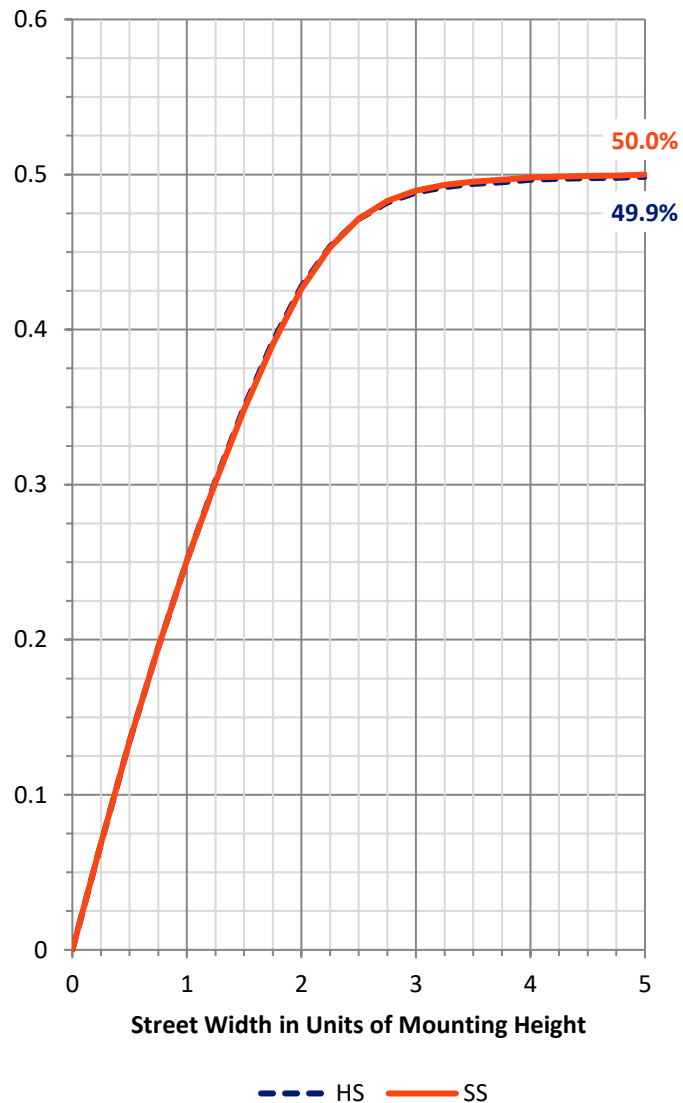
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13578.7	0.0	13578.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	13648.4	0.0	13648.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	27227.1	0.0	27227.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	1.0
10°-20°	822.2	3.0
20°-30°	1398.2	5.1
30°-40°	2216.9	8.1
40°-50°	3614.9	13.3
50°-60°	6173.8	22.7
60°-70°	9390.2	34.5
70°-80°	3165.1	11.6
80°-90°	164.3	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°	27227.1	100.0
0°-180°	27227.1	100.0

**Coefficient of Utilization**



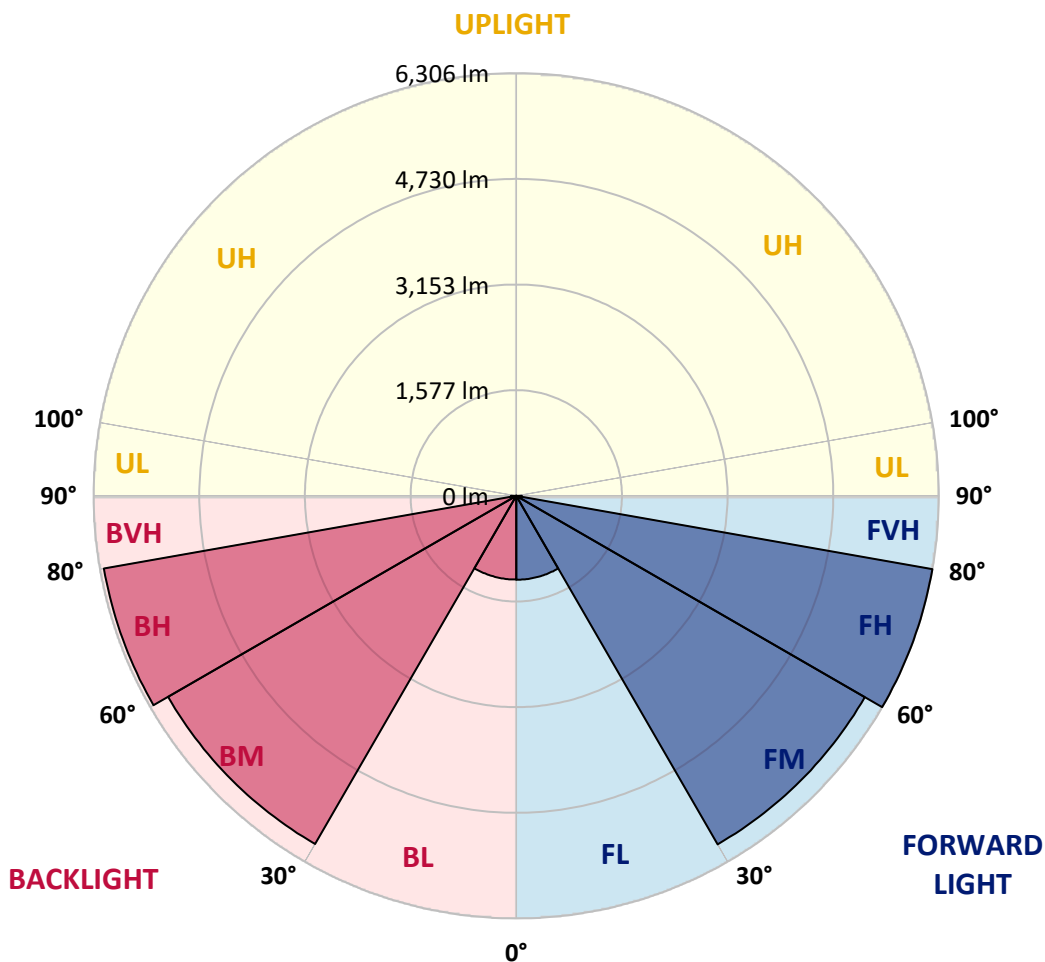
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.2	4.6			
FM (30°-60°)	6006.1	22.1			
FH (60°-80°)	6306.1	23.2			G3/7500
FVH (80°-90°)	84.1	0.3			G1/100
BL (0°-30°)	1249.7	4.6	B3/2500		
BM (30°-60°)	5999.6	22.0	B4/8500		
BH (60°-80°)	6249.2	23.0	B5		G3/7500
BVH (80°-90°)	80.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1
2.5°	2905.7	2939.9	2964.8	2961.7	2971.0	2980.3	2967.9	2986.5	2974.1	2995.8
5°	2961.7	2952.3	2955.4	2936.8	2980.3	2930.6	2930.6	2955.4	2986.5	2949.2
7.5°	2927.5	2921.3	2905.7	2933.7	2943.0	2943.0	2967.9	2921.3	2974.1	2986.5
10°	2890.2	2856.0	2902.6	2930.6	2936.8	2887.1	2908.8	2921.3	2905.7	2921.3
12.5°	2859.1	2877.8	2877.8	2877.8	2868.4	2902.6	2924.4	2921.3	2890.2	2918.2
15°	2856.0	2846.7	2874.6	2899.5	2884.0	2890.2	2899.5	2927.5	2868.4	2880.9
17.5°	2852.9	2865.3	2874.6	2871.5	2924.4	2924.4	2915.0	2896.4	2943.0	2918.2
20°	2865.3	2856.0	2880.9	2890.2	2927.5	3002.1	2974.1	2958.6	2933.7	2902.6
22.5°	2880.9	2874.6	2908.8	2949.2	3020.7	3039.4	3036.2	3017.6	2974.1	2936.8
25°	2936.8	2880.9	2918.2	2995.8	3020.7	3058.0	3082.9	3058.0	2999.0	3008.3
27.5°	3020.7	3011.4	3061.1	3113.9	3092.2	3126.4	3104.6	3123.3	3126.4	3079.8
30°	3120.2	3092.2	3123.3	3225.8	3235.1	3272.4	3235.1	3185.4	3201.0	3160.6
32.5°	3263.1	3253.8	3312.8	3381.2	3393.6	3375.0	3356.3	3384.3	3319.1	3288.0
35°	3356.3	3396.7	3468.2	3521.1	3561.5	3542.8	3552.1	3524.2	3539.7	3474.4
37.5°	3632.9	3617.4	3632.9	3723.1	3732.4	3723.1	3732.4	3763.5	3741.7	3685.8
40°	3894.0	3869.1	3906.4	4009.0	4002.8	4033.8	3971.7	4005.9	4005.9	3900.2
42.5°	4089.8	4173.7	4217.2	4301.1	4332.2	4304.2	4291.8	4298.0	4366.4	4242.0
45°	4493.8	4490.7	4621.2	4667.8	4580.8	4574.6	4549.7	4624.3	4670.9	4599.4
47.5°	4932.0	4953.7	5028.3	5046.9	5099.8	5003.4	5003.4	5012.8	5177.5	5009.7
50°	5326.6	5354.6	5503.8	5649.8	5550.4	5447.8	5488.2	5538.0	5628.1	5469.6
52.5°	5805.2	5957.5	6057.0	6134.7	6206.1	6134.7	6041.4	6097.4	6274.5	6063.2
55°	6495.1	6616.4	6709.6	6852.5	6911.6	6815.2	6805.9	6799.7	6899.2	6675.4
57.5°	7265.9	7216.1	7365.3	7586.0	7800.4	7707.2	7679.2	7685.4	7710.3	7393.3
60°	8223.0	8279.0	8456.1	8648.8	8875.7	9006.2	8822.8	8717.2	8738.9	8307.0
62.5°	8770.0	8894.3	9295.2	9957.2	10414.0	10821.1	10849.1	10162.3	9702.3	8863.2
65°	8505.8	8487.2	9242.4	10466.8	12197.8	13381.9	13204.7	11539.0	9932.3	8599.1
67.5°	7234.8	7185.1	8098.7	10041.1	12900.2	15485.8	15283.8	11927.5	9155.4	7607.7
70°	4661.6	4649.2	5640.5	7654.3	11517.2	14217.9	14292.4	10833.5	7452.3	5572.2
72.5°	1693.7	1796.3	2371.2	4114.6	7822.1	10877.0	10923.7	8021.0	4285.6	2576.3
75°	624.7	643.3	749.0	1336.3	3564.6	6678.5	6852.5	3890.9	1522.8	839.1
77.5°	360.5	363.6	400.9	497.2	1056.6	2607.4	2713.0	1180.9	590.5	447.5
80°	245.5	242.4	282.8	323.2	422.7	739.6	786.3	494.1	372.9	310.8
82.5°	143.0	152.3	208.2	230.0	257.9	326.3	332.5	307.7	279.7	230.0
85°	87.0	71.5	115.0	127.4	149.2	146.1	146.1	167.8	180.2	161.6
87.5°	21.8	21.8	28.0	31.1	40.4	31.1	34.2	65.3	87.0	80.8
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°
2974.1	0°	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1	2974.1
3008.3	2.5°	2980.3	2971.0	2977.2	3011.4	2989.6	2924.4	2939.9	2974.1	2946.1	2930.6
2971.0	5°	2967.9	2986.5	2964.8	2971.0	2992.7	2939.9	2949.2	2992.7	2974.1	2980.3
2989.6	7.5°	2971.0	2980.3	2961.7	2933.7	2933.7	2977.2	2952.3	2958.6	2930.6	2977.2
2930.6	10°	2952.3	2927.5	2905.7	2921.3	2915.0	2902.6	2893.3	2911.9	2884.0	2924.4
2868.4	12.5°	2896.4	2902.6	2896.4	2890.2	2902.6	2933.7	2884.0	2890.2	2846.7	2852.9
2880.9	15°	2874.6	2893.3	2887.1	2921.3	2936.8	2890.2	2927.5	2890.2	2856.0	2837.4
2884.0	17.5°	2884.0	2911.9	2902.6	2927.5	2899.5	2933.7	2939.9	2924.4	2884.0	2868.4
2902.6	20°	2893.3	2884.0	2896.4	2939.9	2980.3	2946.1	2946.1	2936.8	2899.5	2877.8
2930.6	22.5°	2915.0	2899.5	2918.2	2952.3	2964.8	3017.6	2971.0	2949.2	2887.1	2831.1
2952.3	25°	2958.6	2967.9	2980.3	2967.9	3036.2	3030.0	3023.8	3008.3	2911.9	2915.0
3023.8	27.5°	3042.5	2989.6	3005.2	3079.8	3089.1	3113.9	3082.9	3110.8	3008.3	3011.4
3132.6	30°	3145.0	3089.1	3138.8	3204.1	3201.0	3247.6	3232.0	3238.3	3166.8	3126.4
3238.3	32.5°	3256.9	3250.7	3281.8	3322.2	3337.7	3362.6	3359.5	3359.5	3315.9	3210.3
3452.7	35°	3381.2	3424.7	3462.0	3505.5	3511.7	3542.8	3499.3	3505.5	3462.0	3384.3
3629.8	37.5°	3626.7	3623.6	3664.0	3716.8	3723.1	3698.2	3732.4	3716.8	3657.8	3605.0
3878.4	40°	3912.6	3850.5	3887.8	4012.1	4021.4	3977.9	3974.8	3971.7	3928.2	3813.2
4195.4	42.5°	4161.2	4242.0	4235.8	4276.2	4248.3	4226.5	4304.2	4260.7	4226.5	4105.3
4580.8	45°	4481.3	4506.2	4587.0	4717.5	4583.9	4583.9	4636.7	4602.5	4583.9	4493.8
4922.6	47.5°	4879.1	4900.9	5062.5	5071.8	4984.8	4925.7	5090.5	5096.7	5019.0	4950.6
5395.0	50°	5345.3	5354.6	5500.7	5649.8	5553.5	5441.6	5609.4	5674.7	5500.7	5407.4
5969.9	52.5°	5858.1	5830.1	5951.3	6231.0	6137.8	6103.6	6283.8	6299.4	6063.2	5917.1
6548.0	55°	6448.5	6411.2	6740.7	6930.2	6871.2	6809.0	6889.8	6927.1	6737.6	6498.3
7296.9	57.5°	7213.0	7231.7	7396.4	7582.9	7679.2	7694.7	7732.0	7694.7	7502.1	7259.6
8157.8	60°	7977.5	8033.5	8353.6	8704.7	8735.8	9009.3	8959.6	8773.1	8499.6	8154.7
8229.3	62.5°	8260.3	8213.7	8729.6	9587.3	10317.7	10818.0	10597.3	9935.4	9301.4	8673.7
7747.6	65°	7691.6	7806.6	8509.0	9851.5	11436.4	13416.1	12241.3	10410.9	9130.5	8319.4
6644.3	67.5°	6628.8	6715.8	7607.7	9024.8	11837.3	15013.4	12862.9	9739.6	8052.1	7001.7
4618.1	70°	4618.1	4661.6	5534.9	7393.3	10734.1	14168.1	11604.3	7480.3	5559.7	4431.6
1898.8	72.5°	1858.4	1964.1	2539.0	4453.4	7924.7	10765.2	7812.8	3925.1	2305.9	1715.5
683.7	75°	686.8	689.9	811.1	1532.1	3763.5	6765.5	3524.2	1261.7	736.5	602.9
413.3	77.5°	397.8	394.7	422.7	553.2	1090.8	2641.6	1000.7	494.1	400.9	360.5
261.0	80°	248.6	245.5	289.0	366.7	478.6	724.1	422.7	307.7	270.4	233.1
170.9	82.5°	158.5	161.6	226.9	270.4	292.1	320.1	245.5	217.5	202.0	133.6
96.3	85°	102.6	93.2	158.5	180.2	161.6	143.0	136.7	115.0	105.7	65.3
49.7	87.5°	46.6	49.7	80.8	90.1	59.0	34.2	34.2	24.9	24.9	15.5
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°
2974.1
2927.5
2946.1
2915.0
2880.9
2874.6
2871.5
2884.0
2877.8
2884.0
2905.7
2949.2
3042.5
3225.8
3409.2
3564.6
3788.3
4083.6
4409.9
4848.1
5280.0
5951.3
6582.2
7182.0
8170.2
8720.3
8229.3
7057.6
4493.8
1557.0
574.9
345.0
233.1
130.5
71.5
15.5
0.0

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