

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: P574889

Luminaire Tested: **EPH-VN-03-735-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-735-U-5MQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

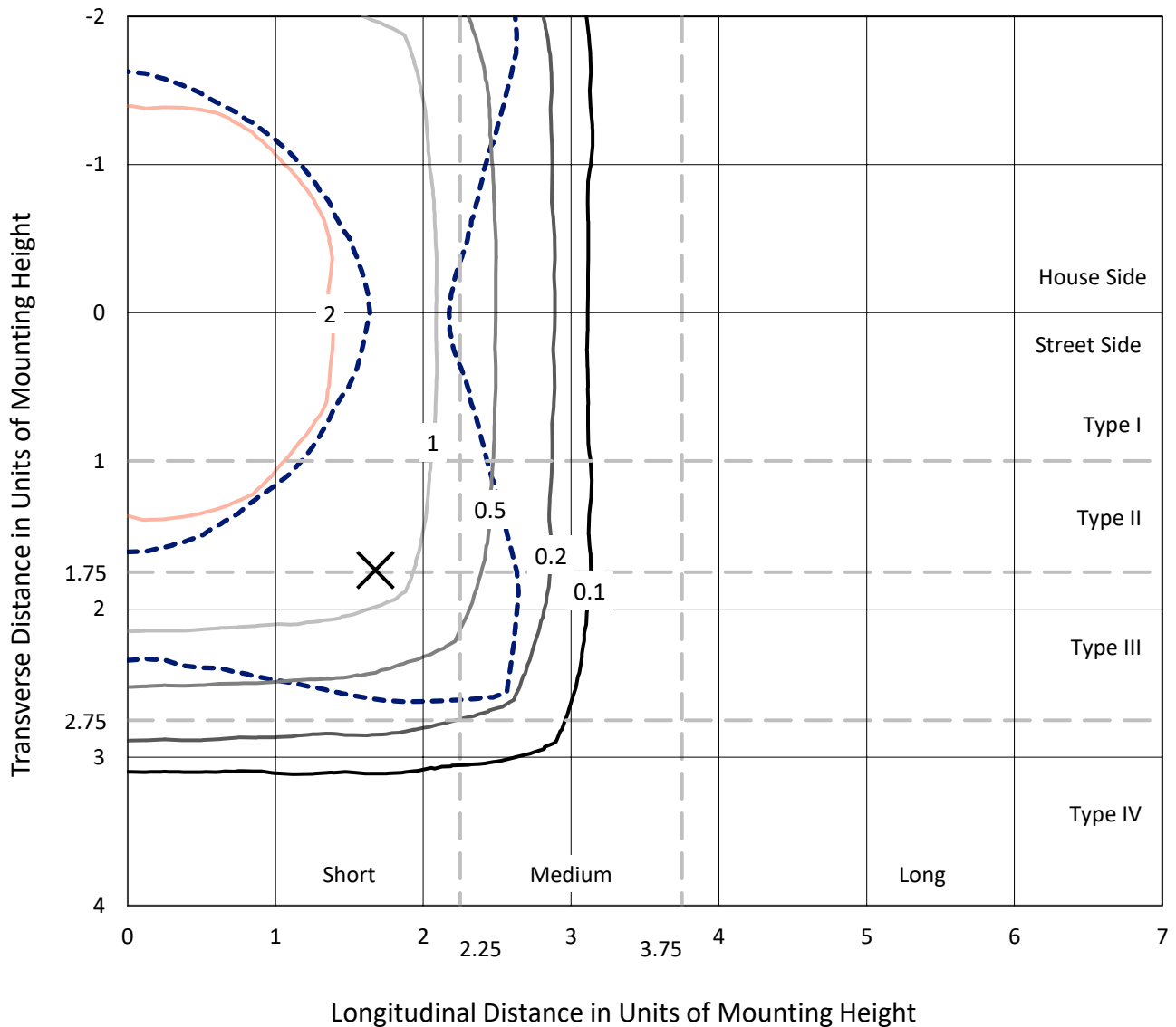
Lumens per Lamp: N/A
Luminaire Lumens: 26854.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

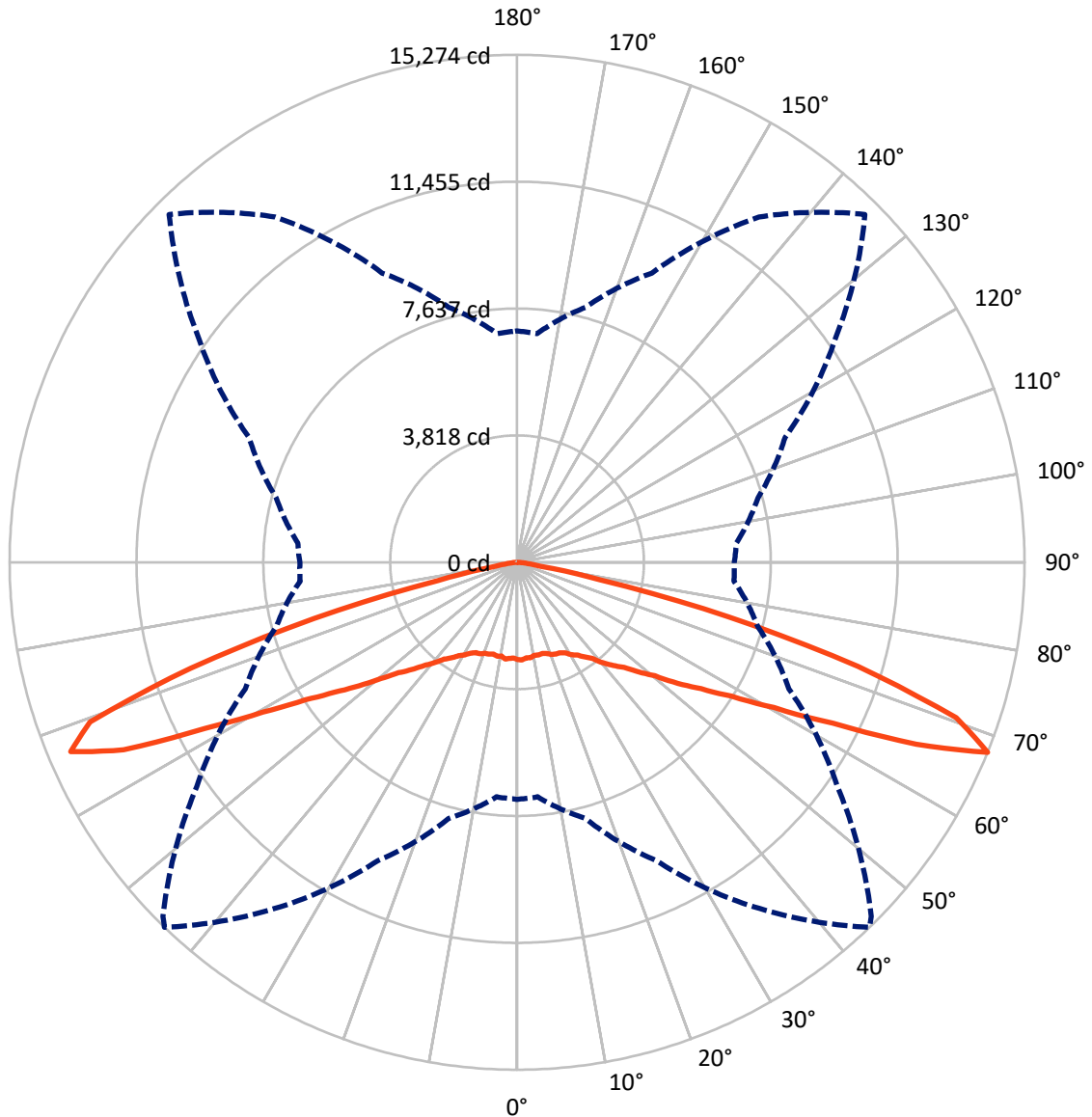
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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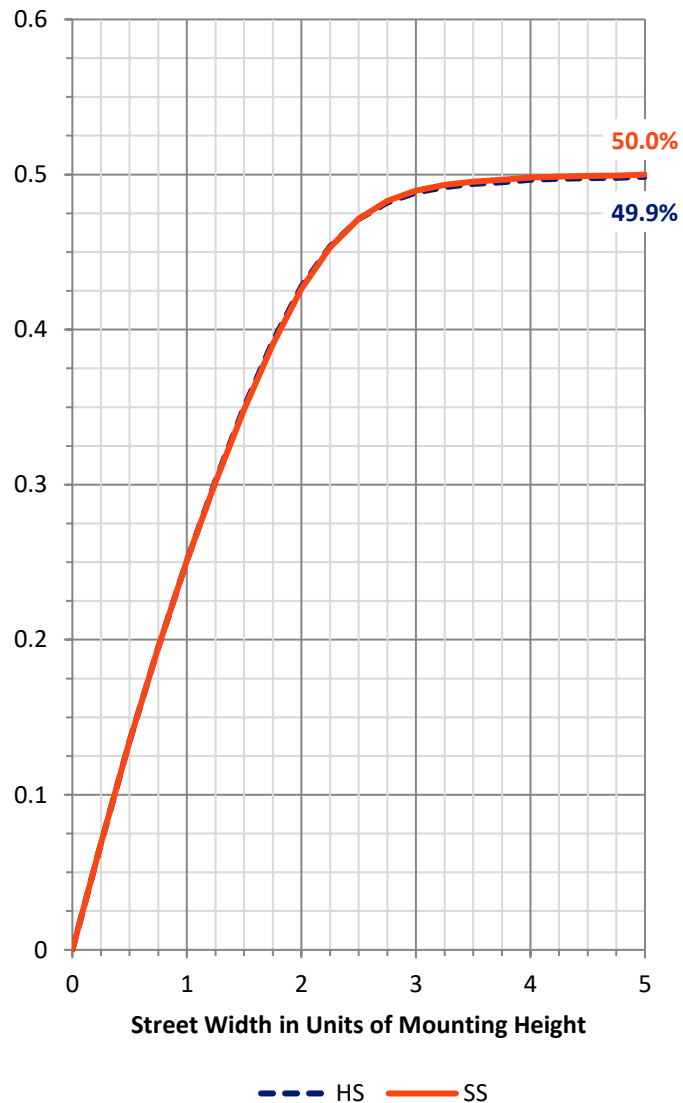
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13392.7	0.0	13392.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13461.4	0.0	13461.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	26854.1	0.0	26854.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.0
10°-20°	811.0	3.0
20°-30°	1379.1	5.1
30°-40°	2186.6	8.1
40°-50°	3565.4	13.3
50°-60°	6089.2	22.7
60°-70°	9261.6	34.5
70°-80°	3121.7	11.6
80°-90°	162.1	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°	26854.1	100.0
0°-180°	26854.1	100.0

Coefficient of Utilization



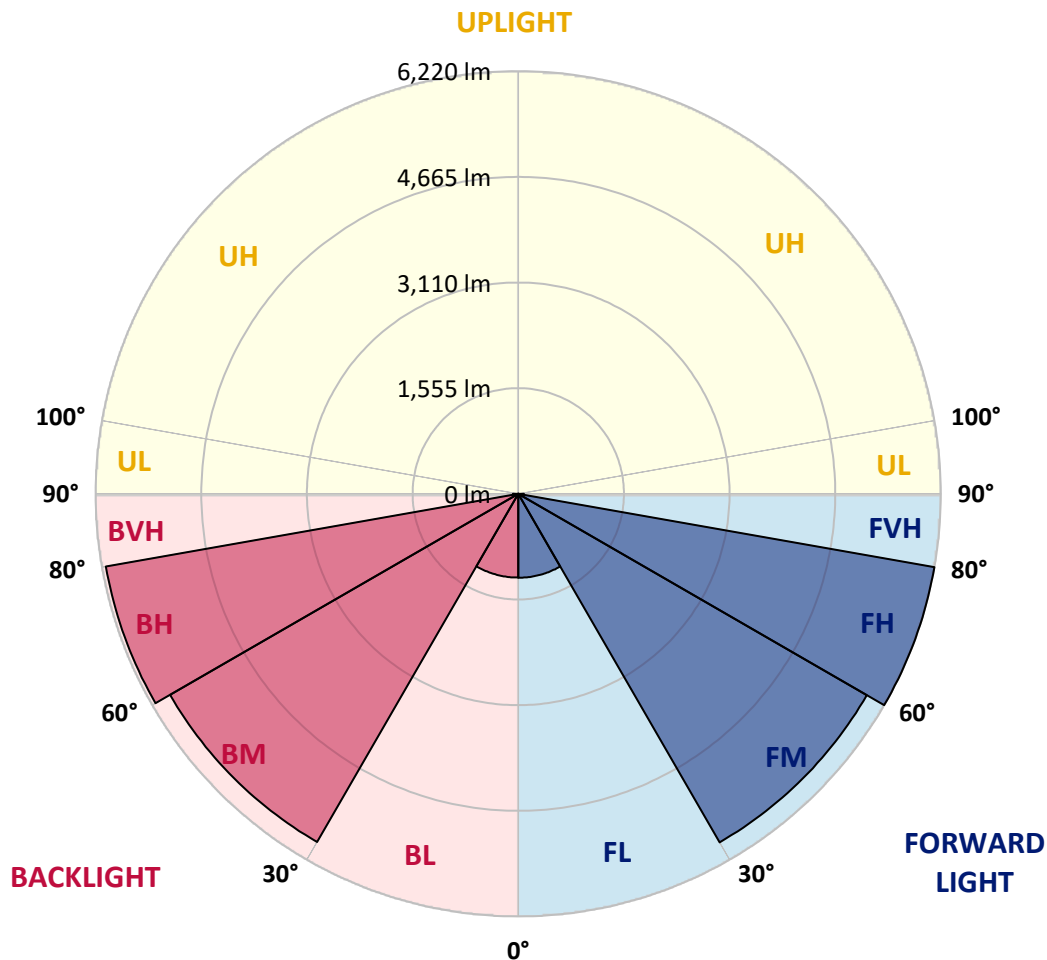
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.1	4.6			
FM (30°-60°)	5923.8	22.1			
FH (60°-80°)	6219.7	23.2			G3/7500
FVH (80°-90°)	82.9	0.3			G1/100
BL (0°-30°)	1232.5	4.6	B3/2500		
BM (30°-60°)	5917.4	22.0	B4/8500		
BH (60°-80°)	6163.6	23.0	B5		G3/7500
BVH (80°-90°)	79.2	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°	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3
2.5°	2865.9	2899.6	2924.2	2921.1	2930.3	2939.5	2927.2	2945.6	2933.3	2954.8
5°	2921.1	2911.9	2915.0	2896.6	2939.5	2890.4	2890.4	2915.0	2945.6	2908.8
7.5°	2887.4	2881.2	2865.9	2893.5	2902.7	2902.7	2927.2	2881.2	2933.3	2945.6
10°	2850.6	2816.9	2862.9	2890.4	2896.6	2847.5	2869.0	2881.2	2865.9	2881.2
12.5°	2819.9	2838.3	2838.3	2838.3	2829.1	2862.9	2884.3	2881.2	2850.6	2878.2
15°	2816.9	2807.7	2835.3	2859.8	2844.5	2850.6	2859.8	2887.4	2829.1	2841.4
17.5°	2813.8	2826.1	2835.3	2832.2	2884.3	2884.3	2875.1	2856.7	2902.7	2878.2
20°	2826.1	2816.9	2841.4	2850.6	2887.4	2960.9	2933.3	2918.0	2893.5	2862.9
22.5°	2841.4	2835.3	2869.0	2908.8	2979.3	2997.7	2994.7	2976.3	2933.3	2896.6
25°	2896.6	2841.4	2878.2	2954.8	2979.3	3016.1	3040.6	3016.1	2957.9	2967.1
27.5°	2979.3	2970.1	3019.2	3071.3	3049.8	3083.5	3062.1	3080.5	3083.5	3037.6
30°	3077.4	3049.8	3080.5	3181.6	3190.8	3227.6	3190.8	3141.8	3157.1	3117.3
32.5°	3218.4	3209.2	3267.5	3334.9	3347.1	3328.8	3310.4	3337.9	3273.6	3242.9
35°	3310.4	3350.2	3420.7	3472.8	3512.7	3494.3	3503.5	3475.9	3491.2	3426.8
37.5°	3583.2	3567.8	3583.2	3672.1	3681.2	3672.1	3681.2	3711.9	3690.4	3635.3
40°	3840.6	3816.1	3852.9	3954.0	3947.9	3978.6	3917.3	3951.0	3951.0	3846.8
42.5°	4033.7	4116.5	4159.4	4242.2	4272.8	4245.2	4233.0	4239.1	4306.5	4183.9
45°	4432.2	4429.1	4557.9	4603.9	4518.0	4511.9	4487.4	4560.9	4606.9	4536.4
47.5°	4864.4	4885.9	4959.4	4977.8	5029.9	4934.9	4934.9	4944.1	5106.5	4941.0
50°	5253.7	5281.3	5428.4	5572.4	5474.4	5373.2	5413.1	5462.1	5551.0	5394.7
52.5°	5725.7	5875.9	5974.0	6050.6	6121.1	6050.6	5958.7	6013.8	6188.5	5980.1
55°	6406.2	6525.7	6617.7	6758.7	6816.9	6721.9	6712.7	6706.6	6804.6	6583.9
57.5°	7166.3	7117.3	7264.4	7482.0	7693.5	7601.6	7574.0	7580.1	7604.6	7292.0
60°	8110.4	8165.6	8340.3	8530.3	8754.1	8882.8	8702.0	8597.7	8619.2	8193.1
62.5°	8649.9	8772.5	9167.9	9820.7	10271.3	10672.9	10700.4	10023.0	9569.4	8741.8
65°	8389.3	8370.9	9115.8	10323.4	12030.7	13198.5	13023.8	11380.9	9796.2	8481.3
67.5°	7135.7	7086.6	7987.8	9903.5	12723.4	15273.6	15074.4	11764.0	9029.9	7503.5
70°	4597.7	4585.5	5563.2	7549.5	11359.4	14023.1	14096.6	10685.1	7350.2	5495.8
72.5°	1670.5	1771.7	2338.7	4058.3	7715.0	10728.0	10774.0	7911.2	4226.8	2541.0
75°	616.1	634.5	738.7	1318.0	3515.7	6587.0	6758.7	3837.6	1501.9	827.6
77.5°	355.6	358.6	395.4	490.4	1042.2	2571.7	2675.9	1164.8	582.4	441.4
80°	242.1	239.1	278.9	318.8	416.9	729.5	775.5	487.4	367.8	306.5
82.5°	141.0	150.2	205.4	226.8	254.4	321.8	328.0	303.4	275.9	226.8
85°	85.8	70.5	113.4	125.7	147.1	144.1	144.1	165.5	177.8	159.4
87.5°	21.5	21.5	27.6	30.7	39.8	30.7	33.7	64.4	85.8	79.7
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°
2933.3	0°	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3
2967.1	2.5°	2939.5	2930.3	2936.4	2970.1	2948.7	2884.3	2899.6	2933.3	2905.8	2890.4
2930.3	5°	2927.2	2945.6	2924.2	2930.3	2951.7	2899.6	2908.8	2951.7	2933.3	2939.5
2948.7	7.5°	2930.3	2939.5	2921.1	2893.5	2893.5	2936.4	2911.9	2918.0	2890.4	2936.4
2890.4	10°	2911.9	2887.4	2865.9	2881.2	2875.1	2862.9	2853.7	2872.0	2844.5	2884.3
2829.1	12.5°	2856.7	2862.9	2856.7	2850.6	2862.9	2893.5	2844.5	2850.6	2807.7	2813.8
2841.4	15°	2835.3	2853.7	2847.5	2881.2	2896.6	2850.6	2887.4	2850.6	2816.9	2798.5
2844.5	17.5°	2844.5	2872.0	2862.9	2887.4	2859.8	2893.5	2899.6	2884.3	2844.5	2829.1
2862.9	20°	2853.7	2844.5	2856.7	2899.6	2939.5	2905.8	2905.8	2896.6	2859.8	2838.3
2890.4	22.5°	2875.1	2859.8	2878.2	2911.9	2924.2	2976.3	2930.3	2908.8	2847.5	2792.4
2911.9	25°	2918.0	2927.2	2939.5	2927.2	2994.7	2988.5	2982.4	2967.1	2872.0	2875.1
2982.4	27.5°	3000.8	2948.7	2964.0	3037.6	3046.8	3071.3	3040.6	3068.2	2967.1	2970.1
3089.7	30°	3101.9	3046.8	3095.8	3160.2	3157.1	3203.1	3187.8	3193.9	3123.4	3083.5
3193.9	32.5°	3212.3	3206.1	3236.8	3276.6	3292.0	3316.5	3313.4	3313.4	3270.5	3166.3
3405.4	35°	3334.9	3377.8	3414.6	3457.5	3463.6	3494.3	3451.4	3457.5	3414.6	3337.9
3580.1	37.5°	3577.0	3574.0	3613.8	3665.9	3672.1	3647.5	3681.2	3665.9	3607.7	3555.6
3825.3	40°	3859.0	3797.7	3834.5	3957.1	3966.3	3923.4	3920.3	3917.3	3874.4	3760.9
4138.0	42.5°	4104.2	4183.9	4177.8	4217.6	4190.1	4168.6	4245.2	4202.3	4168.6	4049.1
4518.0	45°	4419.9	4444.5	4524.2	4652.9	4521.1	4521.1	4573.2	4539.5	4521.1	4432.2
4855.2	47.5°	4812.3	4833.7	4993.1	5002.3	4916.5	4858.3	5020.7	5026.8	4950.2	4882.8
5321.1	50°	5272.1	5281.3	5425.3	5572.4	5477.4	5367.1	5532.6	5597.0	5425.3	5333.4
5888.2	52.5°	5777.8	5750.2	5869.8	6145.6	6053.7	6020.0	6197.7	6213.1	5980.1	5836.0
6458.3	55°	6360.2	6323.4	6648.3	6835.3	6777.0	6715.7	6795.4	6832.2	6645.2	6409.2
7197.0	57.5°	7114.2	7132.6	7295.1	7479.0	7574.0	7589.3	7626.1	7589.3	7399.3	7160.2
8046.0	60°	7868.2	7923.4	8239.1	8585.5	8616.1	8885.9	8836.8	8652.9	8383.2	8043.0
8116.5	62.5°	8147.2	8101.2	8610.0	9456.0	10176.3	10669.8	10452.2	9799.3	9174.0	8554.8
7641.4	65°	7586.2	7699.7	8392.4	9716.5	11279.8	13232.3	12073.6	10268.3	9005.4	8205.4
6553.3	67.5°	6538.0	6623.8	7503.5	8901.2	11675.2	14807.7	12686.7	9606.2	7941.8	6905.8
4554.8	70°	4554.8	4597.7	5459.0	7292.0	10587.0	13974.0	11445.3	7377.8	5483.6	4370.9
1872.8	72.5°	1833.0	1937.2	2504.2	4392.4	7816.1	10617.7	7705.8	3871.3	2274.3	1692.0
674.3	75°	677.4	680.5	800.0	1511.1	3711.9	6672.8	3475.9	1244.5	726.4	594.6
407.7	77.5°	392.3	389.3	416.9	545.6	1075.9	2605.4	987.0	487.4	395.4	355.6
257.5	80°	245.2	242.1	285.1	361.7	472.0	714.2	416.9	303.4	266.7	229.9
168.6	82.5°	156.3	159.4	223.8	266.7	288.1	315.7	242.1	214.6	199.2	131.8
95.0	85°	101.1	92.0	156.3	177.8	159.4	141.0	134.9	113.4	104.2	64.4
49.0	87.5°	46.0	49.0	79.7	88.9	58.2	33.7	33.7	24.5	24.5	15.3
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°
2933.3
2887.4
2905.8
2875.1
2841.4
2835.3
2832.2
2844.5
2838.3
2844.5
2865.9
2908.8
3000.8
3181.6
3362.5
3515.7
3736.4
4027.6
4349.4
4781.6
5207.7
5869.8
6492.0
7083.6
8058.3
8600.8
8116.5
6961.0
4432.2
1535.6
567.1
340.2
229.9
128.7
70.5
15.3
0.0

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