

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: P574866

Luminaire Tested: **EPH-VN-08-750-U-5NQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574866  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-750-U-5NQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

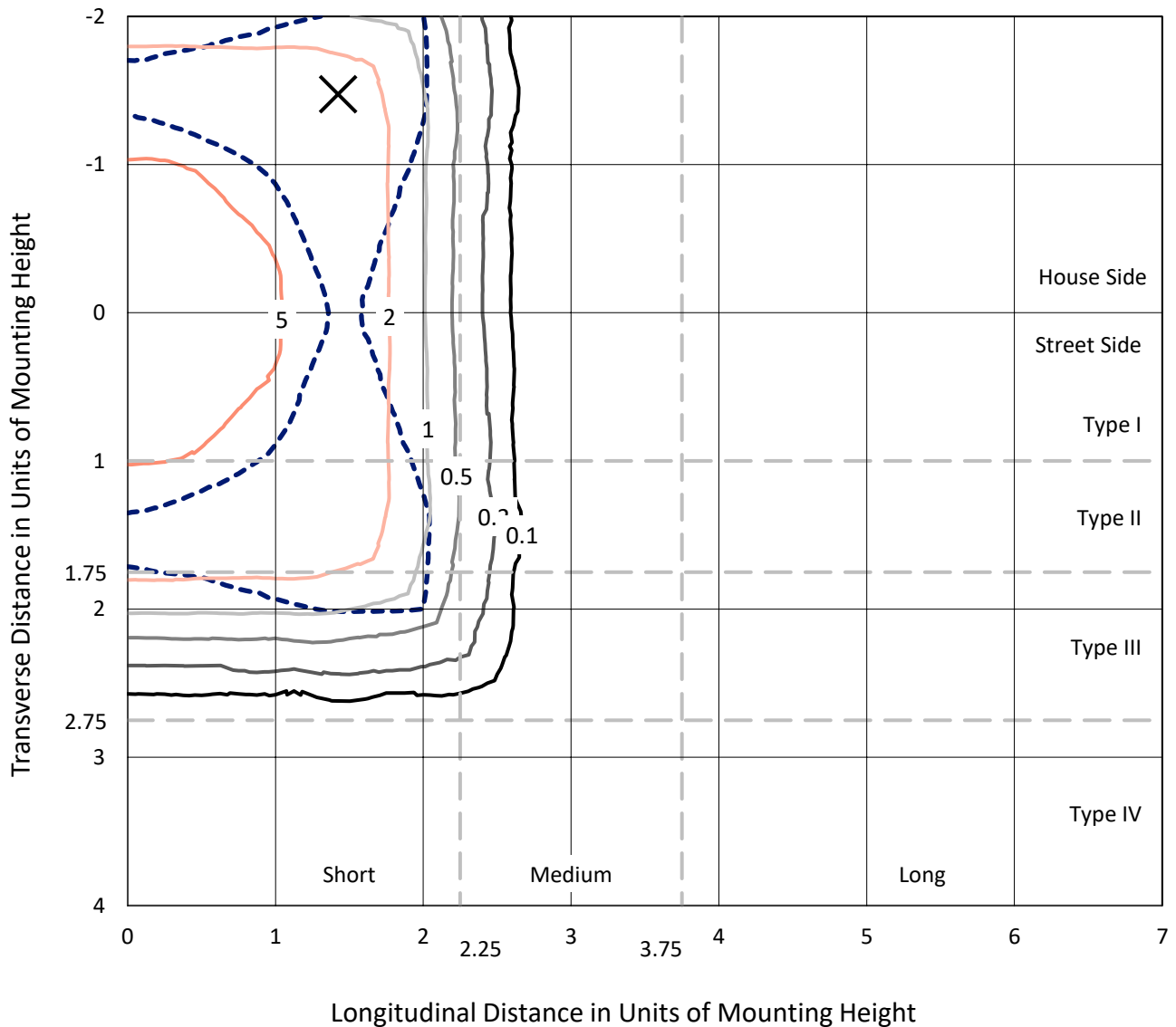
Lumens per Lamp: N/A  
Luminaire Lumens: 56874.5 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3  
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

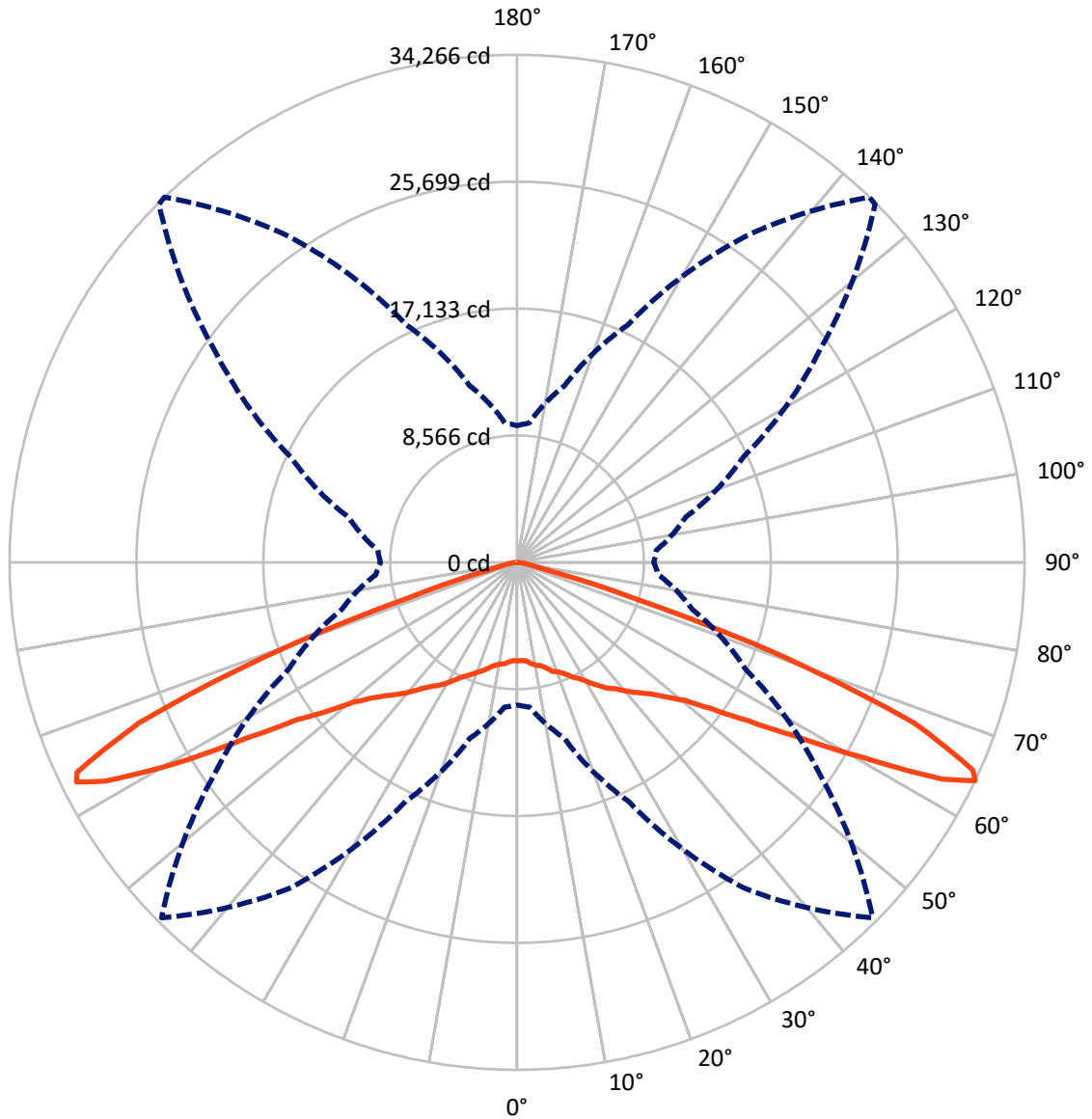
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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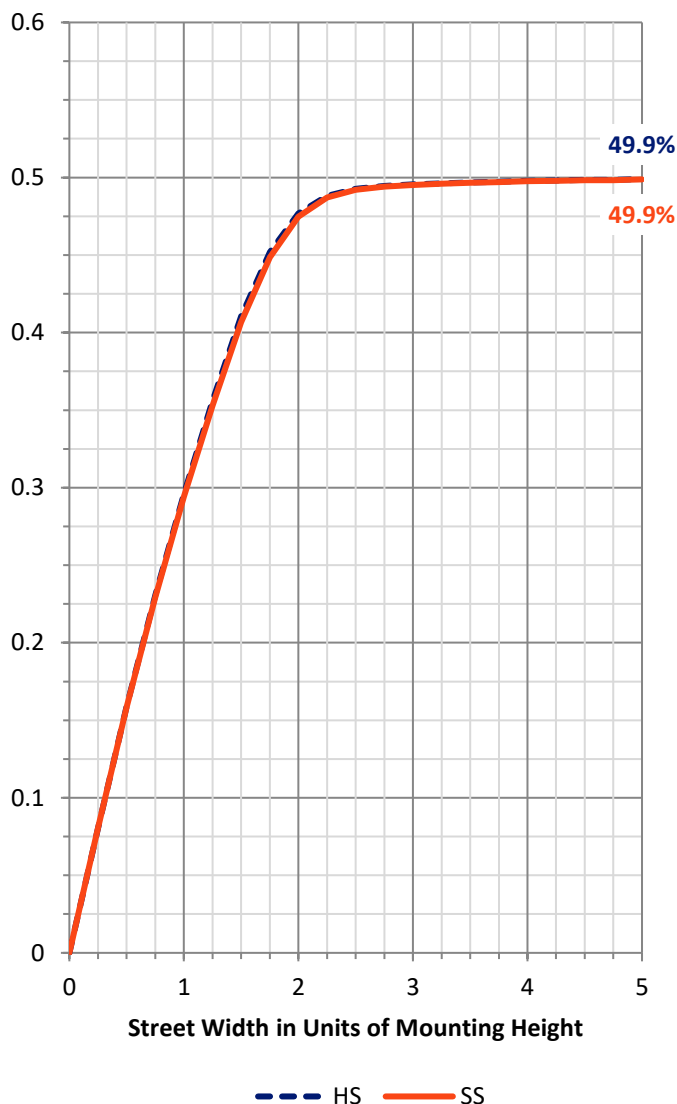
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28464.3	0.0	28464.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28410.1	0.0	28410.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56874.5	0.0	56874.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.3	1.2
10°-20°	2108.8	3.7
20°-30°	3963.2	7.0
30°-40°	6536.0	11.5
40°-50°	10221.9	18.0
50°-60°	16516.0	29.0
60°-70°	14871.6	26.1
70°-80°	1761.6	3.1
80°-90°	241.1	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°	56874.5	100.0
0°-180°	56874.5	100.0

**Coefficient of Utilization**



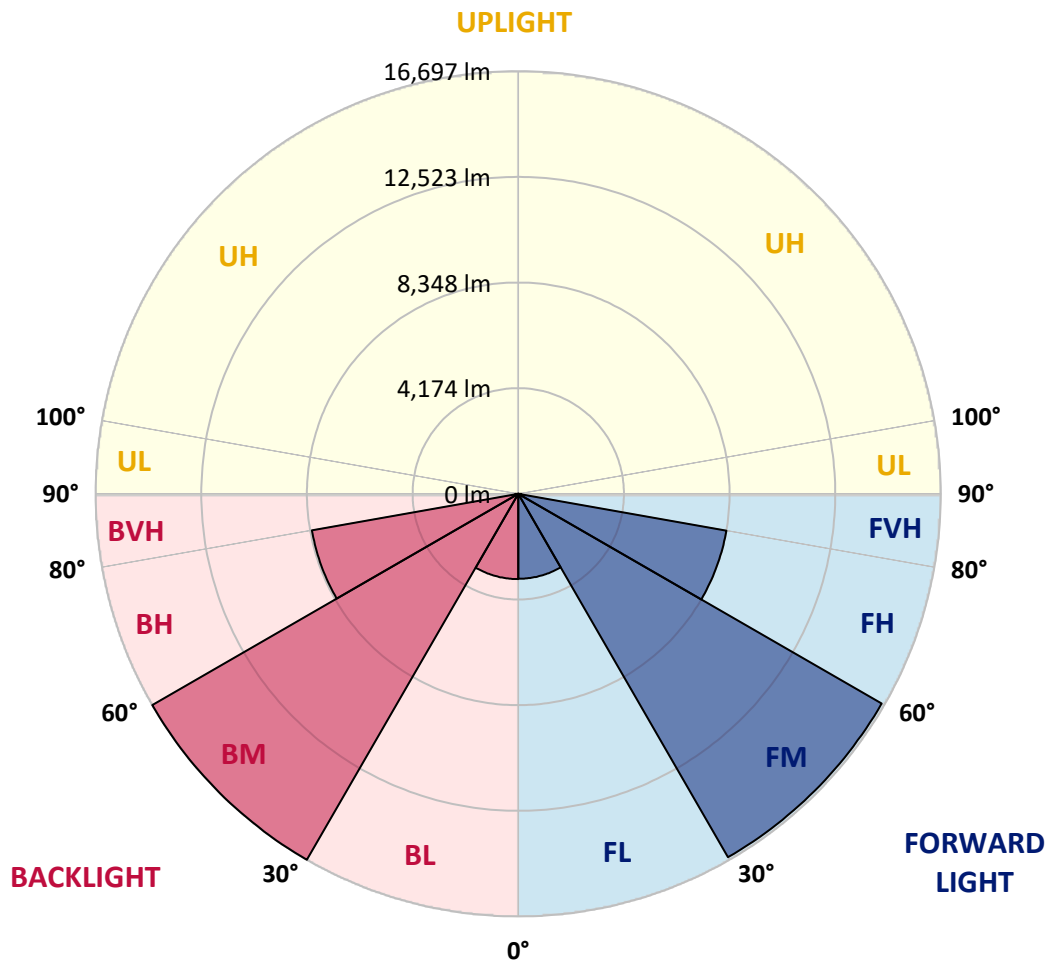
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3356.6	5.9			
FM (30°-60°)	16577.1	29.1			
FH (60°-80°)	8352.7	14.7			G4/12000
FVH (80°-90°)	123.7	0.2			G2/225
BL (0°-30°)	3369.6	5.9	B4/5000		
BM (30°-60°)	16696.8	29.4	B5		
BH (60°-80°)	8280.6	14.6	B5		G4/12000
BVH (80°-90°)	117.4	0.2			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°	45°	55°	65°	75°	85°
0°	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8
2.5°	6580.6	6593.6	6711.0	6665.4	6704.5	6632.7	6684.9	6795.8	6665.4	6763.2
5°	6652.3	6671.9	6671.9	6717.5	6743.6	6730.6	6763.2	6717.5	6841.4	6789.3
7.5°	6913.2	6880.6	6828.4	6867.5	6874.1	6906.7	6939.3	6998.0	6978.4	6932.8
10°	6958.8	6932.8	7011.0	7017.5	6984.9	6958.8	6991.4	6991.4	7050.1	7063.2
12.5°	7037.1	7063.2	7056.7	7108.8	7115.4	7095.8	7148.0	7245.8	7219.7	7239.3
15°	7337.1	7304.5	7298.0	7350.2	7434.9	7311.0	7402.3	7395.8	7369.7	7408.8
17.5°	7598.0	7493.6	7539.3	7624.1	7591.5	7617.5	7734.9	7630.6	7656.7	7611.0
20°	7826.2	7741.5	7748.0	7780.6	7780.6	7858.9	7904.5	7865.4	7839.3	7832.8
22.5°	8080.6	7982.8	7989.3	8126.3	8171.9	8145.8	8113.2	8178.4	8191.5	8139.3
25°	8269.7	8374.1	8406.7	8471.9	8374.1	8445.8	8419.7	8543.7	8621.9	8517.6
27.5°	8765.4	8719.7	8804.5	8798.0	8876.3	8804.5	8850.2	8889.3	8921.9	8928.4
30°	9208.9	9228.5	9143.7	9371.9	9189.3	9306.7	9385.0	9404.5	9443.7	9443.7
32.5°	9678.5	9639.3	9776.3	9724.1	9691.5	9782.8	9698.0	9965.4	9808.9	9900.2
35°	10206.7	10206.7	10258.9	10402.4	10206.7	10148.0	10304.6	10415.4	10415.4	10252.4
37.5°	10800.2	10748.0	10813.3	10995.9	10845.9	10650.2	10937.2	10982.8	10950.2	10904.6
40°	11217.6	11204.6	11335.0	11576.3	11361.1	11322.0	11374.1	11498.1	11537.2	11582.8
42.5°	11922.0	11980.7	12359.0	12300.3	12124.2	11987.2	11974.2	12437.2	12326.3	12208.9
45°	12965.5	12913.3	13109.0	13115.5	12887.2	12587.2	12652.4	13076.4	13265.5	13004.6
47.5°	13793.8	13819.9	13956.8	14237.3	13709.0	13395.9	13637.2	14322.0	14263.3	14165.5
50°	14902.5	15019.9	15450.3	15352.5	14882.9	14498.1	15026.4	15672.1	15743.8	15385.1
52.5°	16435.1	16617.7	16852.5	16930.8	16480.8	16343.8	16376.4	17178.6	17002.5	16656.9
55°	17778.6	17863.4	18293.9	18939.5	18906.9	18248.2	18626.5	18926.5	18209.1	17498.2
57.5°	18352.6	18391.7	19591.7	20883.0	21652.6	21802.6	21372.2	20361.3	18652.6	17283.0
60°	16924.3	17296.0	18743.9	21659.1	25174.4	26909.3	24046.1	20524.3	17615.6	15952.5
62.5°	13526.4	13545.9	15698.2	20120.0	27365.8	31911.5	25070.1	18991.7	14850.3	12965.5
64°	9632.8	9815.4	12287.2	17811.2	26909.3	33946.4	24946.2	16989.5	12241.6	9567.6
65°	6913.2	7167.5	9554.5	15463.4	25839.7	33705.0	24574.4	15267.7	9900.2	7304.5
67.5°	2543.5	2647.9	3750.1	7734.9	18554.7	28722.3	19474.3	8393.7	4350.1	3097.9
70°	1180.5	1187.0	1389.2	2556.6	8113.2	19206.9	9293.7	3150.1	1637.0	1297.9
72.5°	867.4	887.0	971.8	1180.5	2387.0	8132.8	3052.2	1291.3	958.7	847.8
75°	704.4	717.4	743.5	854.4	1102.2	2178.3	1239.2	893.5	763.1	684.8
77.5°	541.3	541.3	600.0	652.2	730.4	1017.4	821.8	710.9	619.6	541.3
80°	391.3	397.8	469.6	508.7	495.7	671.8	593.5	587.0	508.7	423.9
82.5°	228.3	247.8	339.1	365.2	352.2	397.8	430.4	456.5	397.8	293.5
85°	130.4	137.0	195.7	202.2	202.2	189.1	247.8	273.9	267.4	182.6
87.5°	39.1	39.1	52.2	52.2	58.7	65.2	97.8	117.4	130.4	91.3
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°
6658.8	0°	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8	6658.8
6795.8	2.5°	6763.2	6665.4	6671.9	6698.0	6613.2	6645.8	6743.6	6671.9	6652.3	6613.2
6867.5	5°	6730.6	6834.9	6795.8	6808.8	6789.3	6698.0	6684.9	6743.6	6776.2	6717.5
7011.0	7.5°	6958.8	6913.2	6861.0	6880.6	6834.9	6913.2	6965.4	6848.0	6906.7	6874.1
7063.2	10°	7089.3	7004.5	7043.6	7030.6	6998.0	7076.2	7024.1	7011.0	6958.8	6887.1
7193.6	12.5°	7134.9	7232.8	7298.0	7187.1	7206.7	7167.5	7134.9	7134.9	7076.2	7056.7
7304.5	15°	7337.1	7421.9	7395.8	7480.6	7369.7	7408.8	7448.0	7350.2	7402.3	7258.8
7578.4	17.5°	7708.9	7637.1	7728.4	7617.5	7656.7	7734.9	7611.0	7611.0	7650.2	7571.9
7845.8	20°	7943.6	7911.0	7878.4	7884.9	7819.7	7891.5	7852.3	7832.8	7774.1	7800.2
8198.0	22.5°	8165.4	8119.7	8132.8	8152.3	8198.0	8165.4	8145.8	8165.4	8021.9	8152.3
8589.3	25°	8439.3	8563.2	8524.1	8608.9	8478.4	8563.2	8556.7	8432.8	8511.0	8458.9
8895.8	27.5°	8895.8	8830.6	8889.3	8785.0	8876.3	8882.8	8804.5	9013.2	8921.9	8908.9
9345.8	30°	9482.8	9437.2	9398.0	9339.3	9411.1	9352.4	9417.6	9437.2	9352.4	9287.1
9789.3	32.5°	9815.4	9939.3	9985.0	9841.5	9848.0	9880.6	9821.9	9763.2	9815.4	9835.0
10291.5	35°	10285.0	10402.4	10428.5	10317.6	10258.9	10422.0	10304.6	10500.2	10330.6	10337.2
10826.3	37.5°	10832.8	10865.4	11087.2	10963.3	10911.1	10832.8	11048.1	11022.0	11061.1	10748.0
11478.5	40°	11452.4	11569.8	11693.7	11380.7	11374.1	11445.9	11432.8	11582.8	11511.1	11465.5
12150.3	42.5°	12130.7	12378.5	12398.1	12189.4	12058.9	12045.9	12111.1	12443.7	12450.3	12150.3
13102.4	45°	13030.7	13304.6	13232.9	12828.5	12685.0	12665.5	12985.1	13128.5	13252.4	13135.1
14256.8	47.5°	14152.5	14335.1	14282.9	13911.2	13448.1	13578.5	13891.6	14341.6	14211.2	14054.6
15319.9	50°	15352.5	15567.7	15456.8	15085.1	14641.6	14641.6	15026.4	15600.3	15561.2	15254.7
16435.1	52.5°	16683.0	16996.0	17250.4	16722.1	16350.3	16409.0	17015.6	17224.3	17126.4	16911.2
17556.9	55°	17674.3	18274.3	18796.0	18822.1	18841.7	18835.2	18991.7	19200.4	18502.6	18156.9
17198.2	57.5°	17433.0	18567.8	20354.8	21567.8	21926.5	22115.7	22063.5	21098.3	19448.2	18313.4
15828.6	60°	15711.2	17563.4	20446.1	24339.6	26948.4	26687.5	25735.3	21920.0	18926.5	17009.0
12469.8	62.5°	12535.0	14765.5	18913.4	25122.3	32309.4	32231.1	27248.4	20022.2	15769.9	13343.8
9221.9	64°	9443.7	11791.5	16872.1	24920.1	34187.7	34265.9	26863.6	17687.3	12339.4	9443.7
6952.3	65°	7226.2	9404.5	14869.9	24502.7	33783.3	33829.0	25794.0	15274.2	9378.5	6704.5
2784.8	67.5°	2876.1	4004.4	8067.6	18580.8	29009.3	28885.4	18404.7	7389.3	3587.0	2334.8
1206.5	70°	1226.1	1526.1	2830.5	8804.5	19422.1	19063.4	7924.1	2400.0	1330.5	1115.2
828.3	72.5°	841.3	932.6	1213.1	2719.6	8074.1	7884.9	2256.6	1115.2	906.5	834.8
658.7	75°	678.3	743.5	880.5	1141.3	2139.2	2060.9	1063.1	821.8	723.9	671.8
521.7	77.5°	528.3	593.5	691.3	789.1	978.3	971.8	710.9	619.6	560.9	521.7
391.3	80°	417.4	482.6	547.8	560.9	639.1	626.1	482.6	489.1	456.5	378.3
267.4	82.5°	287.0	391.3	437.0	397.8	378.3	378.3	345.7	345.7	319.6	234.8
163.0	85°	176.1	260.9	273.9	234.8	176.1	176.1	189.1	182.6	169.6	123.9
84.8	87.5°	91.3	123.9	110.9	91.3	58.7	58.7	52.2	39.1	39.1	32.6
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°  
6658.8  
6593.6  
6834.9  
6808.8  
6991.4  
7076.2  
7369.7  
7474.1  
7852.3  
7969.7  
8419.7  
8882.8  
9163.2  
9815.4  
10161.1  
10904.6  
11354.6  
12019.8  
13024.2  
13924.2  
15137.3  
16813.4  
17804.7  
18430.8  
16767.7  
13193.8  
**9215.4**  
6456.7  
2289.2  
1108.7  
834.8  
665.2  
508.7  
371.7  
215.2  
117.4  
32.6  
0.0

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