

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: P574655

Luminaire Tested: **EPH-VN-03-740-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574655
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-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

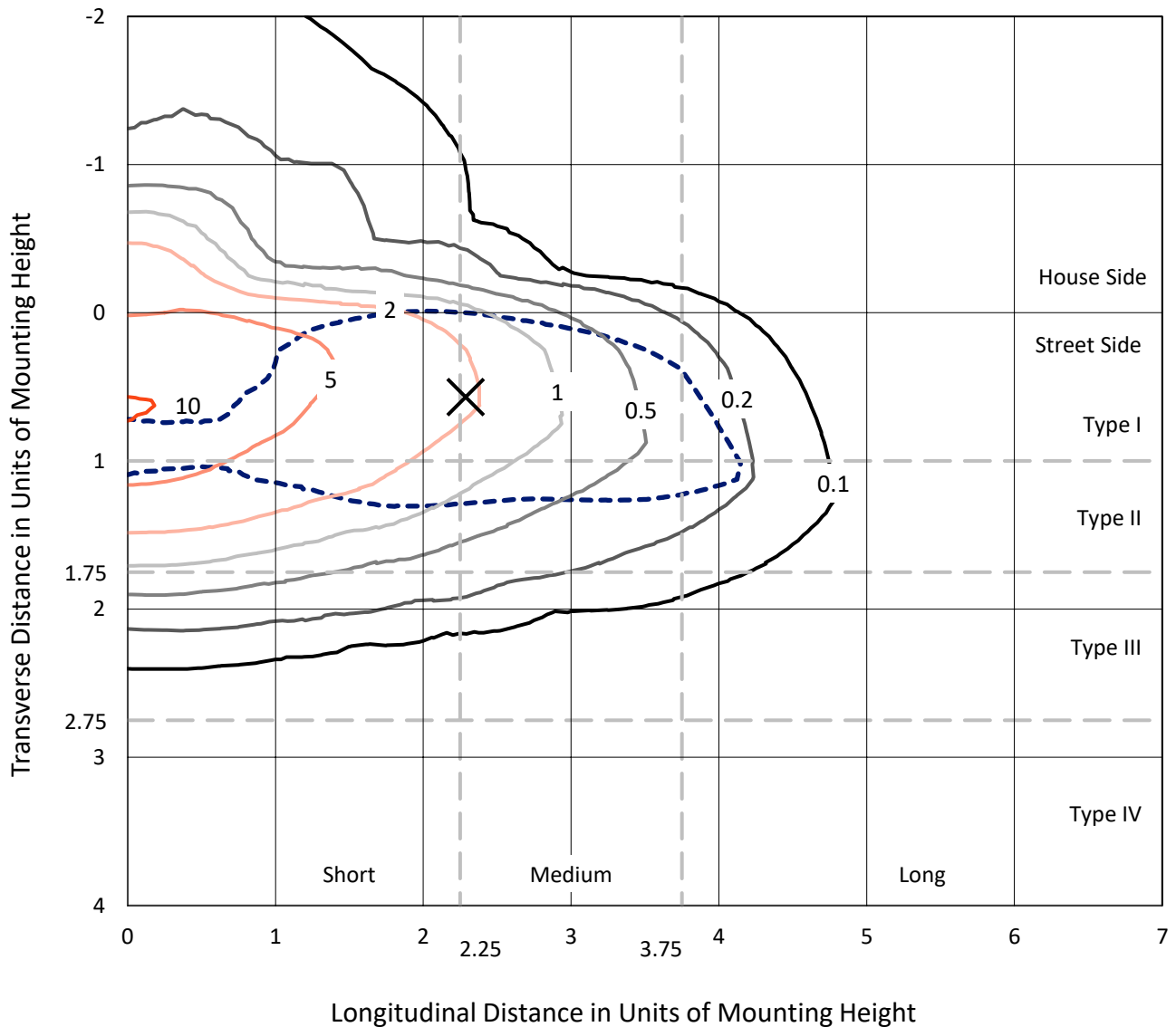
Lumens per Lamp: N/A
Luminaire Lumens: 27124.9 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

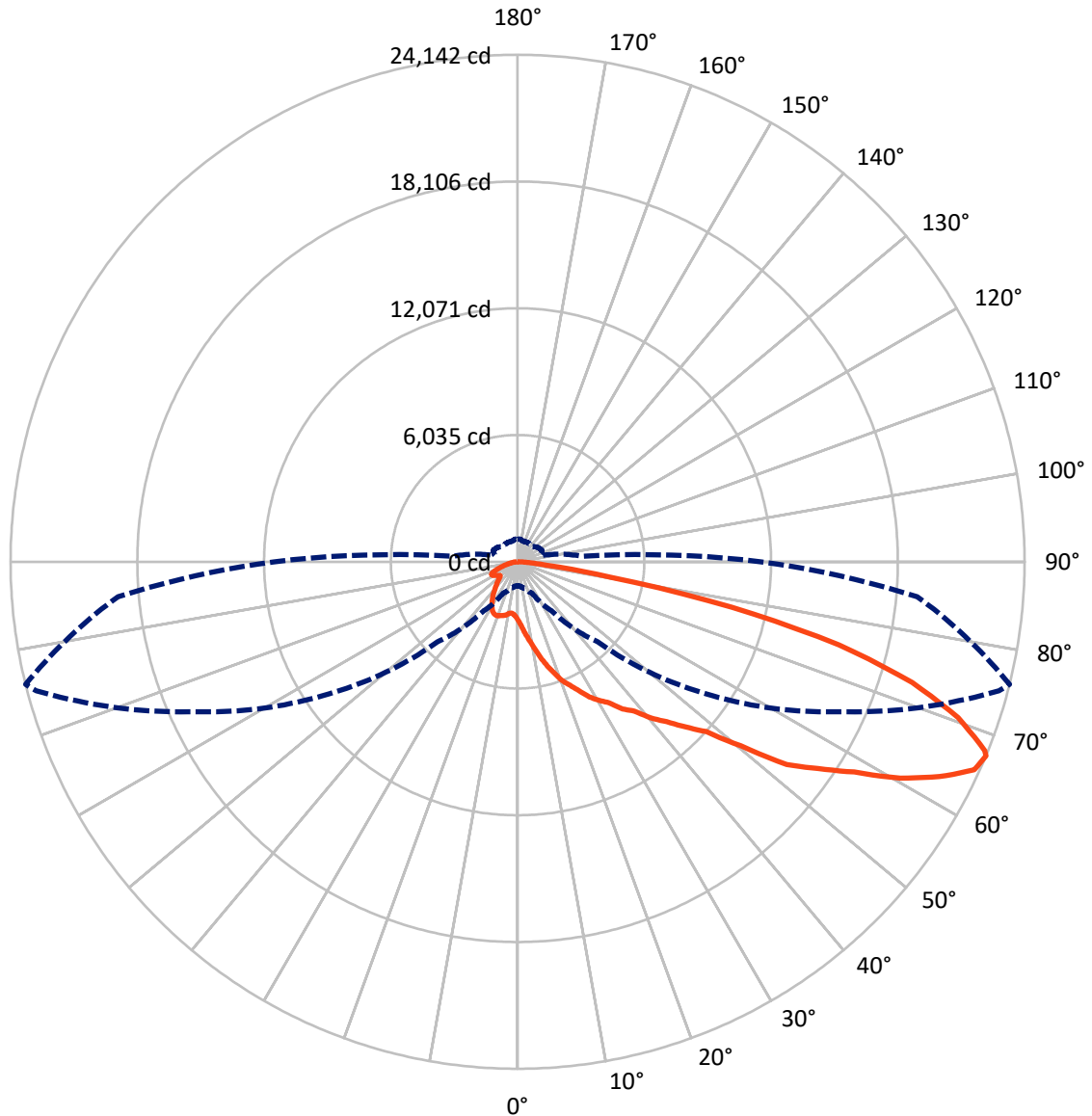
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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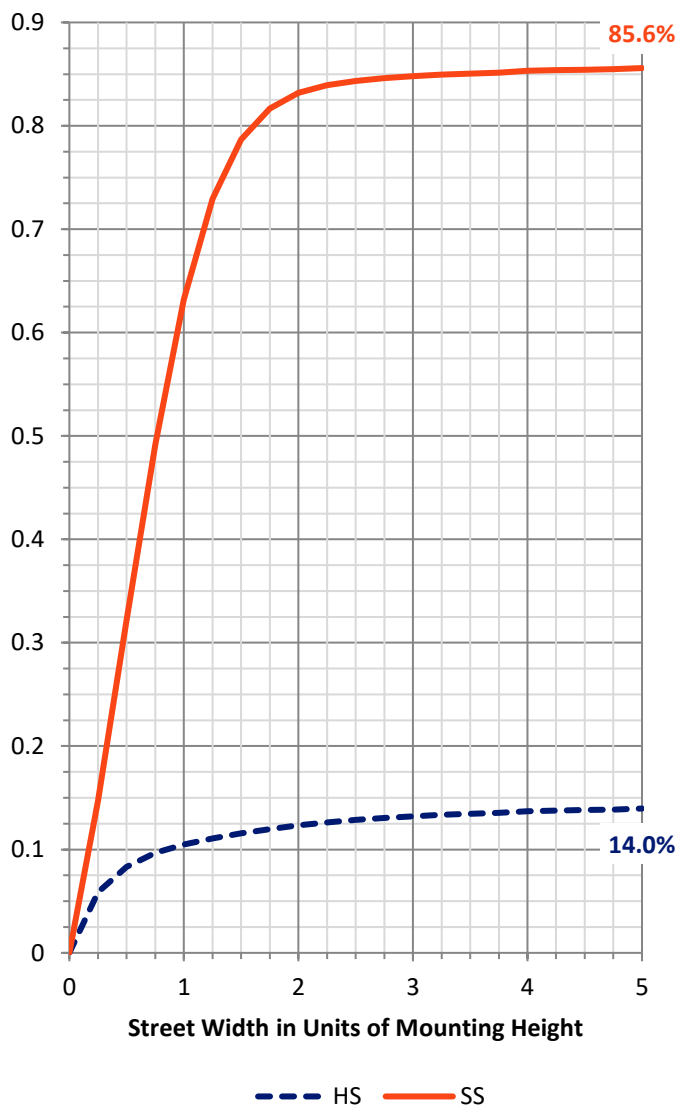
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.9	0.0	3858.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23266.1	0.0	23266.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	27124.9	0.0	27124.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	1.2
10°-20°	1205.9	4.4
20°-30°	2242.0	8.3
30°-40°	3554.1	13.1
40°-50°	4915.6	18.1
50°-60°	6046.5	22.3
60°-70°	5626.6	20.7
70°-80°	2823.4	10.4
80°-90°	389.3	1.4
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°	27124.9	100.0
0°-180°	27124.9	100.0

Coefficient of Utilization

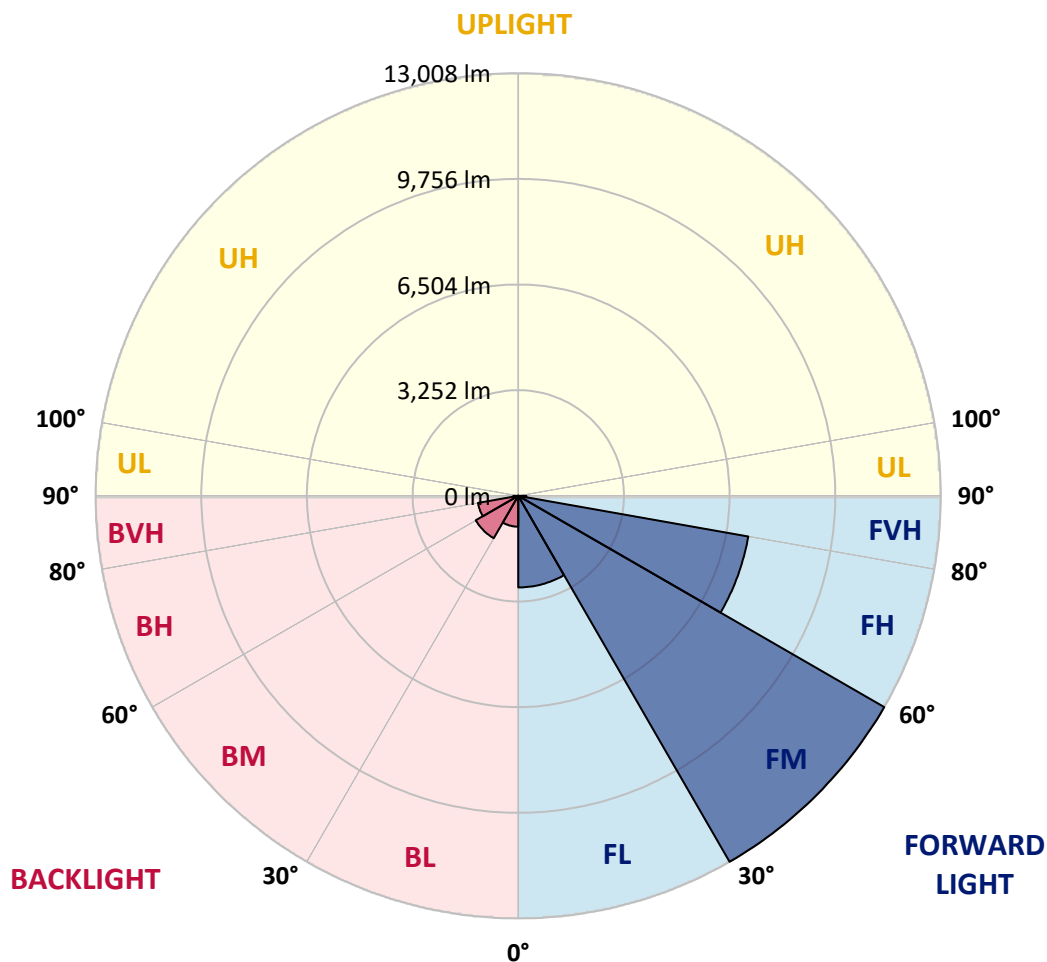


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2819.2	10.4			
FM (30°-60°)	13008.3	48.0			
FH (60°-80°)	7190.6	26.5			G3/7500
FVH (80°-90°)	248.0	0.9			G3/500
BL (0°-30°)	950.3	3.5	B2/1000		
BM (30°-60°)	1508.0	5.6	B2/2500		
BH (60°-80°)	1259.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	141.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8
2.5°	3851.5	3805.2	3758.8	3659.9	3625.9	3533.1	3363.1	3174.6	3020.0	2998.4
5°	4778.9	4710.9	4695.4	4639.8	4463.6	4284.3	4006.1	3703.2	3326.0	3353.9
7.5°	5474.4	5434.2	5350.7	5298.2	5193.1	4955.1	4667.6	4265.7	3786.6	3693.9
10°	5999.9	5944.2	5941.1	5894.8	5839.1	5594.9	5375.5	4834.5	4219.4	4092.6
12.5°	6265.7	6256.4	6420.3	6420.3	6398.6	6296.6	5919.5	5424.9	4630.5	4587.2
15°	6553.2	6475.9	6618.1	6726.3	6781.9	6834.5	6522.3	5999.9	5156.0	5072.5
17.5°	6553.2	6547.0	6689.2	6868.5	7159.0	7227.0	7057.0	6528.4	5591.8	5530.0
20°	6441.9	6531.5	6630.4	6871.6	7186.8	7462.0	7511.4	7069.4	6074.0	6024.6
22.5°	6961.2	6874.6	6976.7	7069.4	7313.6	7730.9	7866.9	7545.4	6581.0	6392.4
25°	7832.9	7774.2	7700.0	7564.0	7666.0	7848.3	8055.5	7897.8	7013.7	6803.5
27.5°	8682.9	8686.0	8525.3	8228.6	8009.1	8046.2	8290.4	8206.9	7378.5	7285.8
30°	9891.6	9817.4	9638.1	9236.3	8806.6	8454.2	8414.0	8494.4	7842.2	7662.9
32.5°	10797.3	10812.7	10559.3	9981.2	9393.9	9106.4	8754.0	8788.0	8135.8	8002.9
35°	11529.9	11511.3	11332.0	10852.9	10157.4	9811.2	9335.2	9140.4	8819.0	8608.8
37.5°	12321.2	12169.7	11879.2	11338.2	10893.1	10414.0	9950.3	9511.4	9273.4	9019.9
40°	12639.6	12639.6	12250.1	12002.8	11474.2	11112.6	10812.7	9999.8	9826.7	9777.2
42.5°	12413.9	12553.0	12392.3	12111.0	11894.6	11437.1	11356.8	10506.7	10509.8	10410.9
45°	12392.3	12200.6	12067.7	12138.8	12036.8	12012.1	12216.1	11208.4	11226.9	11214.6
47.5°	11771.0	11684.4	11882.3	11999.7	12083.2	12466.5	13053.8	12046.1	12179.0	12086.3
50°	11152.8	11137.3	11260.9	11687.5	12049.2	12679.8	13851.3	13338.2	13774.0	13767.8
52.5°	9458.8	9622.6	10108.0	11010.6	11903.9	12970.3	14454.1	14988.8	15820.3	16046.0
55°	7839.1	7752.5	8469.7	9780.3	11270.2	13084.7	15127.9	15981.1	17205.2	17369.0
57.5°	6098.8	6259.5	6825.2	8083.3	9959.6	12519.0	15622.5	16961.0	18769.3	18896.0
60°	4550.1	4571.8	5193.1	6207.0	8216.2	11242.4	15783.2	17965.6	20562.1	20923.8
62.5°	2862.4	2992.2	3465.1	4463.6	6185.3	9455.7	15063.0	18574.5	22441.5	22537.3
65°	1542.5	1625.9	1981.4	2608.9	4321.4	7152.8	13152.7	18209.8	23325.6	23894.3
67°	1140.6	1156.1	1319.9	1666.1	2890.2	5384.7	10967.3	16889.9	23727.4	24141.6
67.5°	1069.5	1091.2	1221.0	1496.1	2562.5	4958.2	10395.4	16420.0	23548.1	23993.3
70°	915.0	921.2	952.1	1029.3	1437.4	2982.9	7078.7	13455.6	21826.4	22253.0
72.5°	813.0	819.1	831.5	847.0	973.7	1724.8	4305.9	10355.2	18970.2	19650.2
75°	714.0	735.7	741.9	729.5	828.4	1122.1	2290.5	7610.3	15474.1	15804.9
77.5°	605.9	615.1	627.5	639.9	738.8	837.7	1100.4	5137.4	10621.1	10420.2
80°	510.0	513.1	522.4	531.7	639.9	639.9	624.4	2775.8	4639.8	4435.8
82.5°	364.8	386.4	408.0	432.8	531.7	429.7	408.0	1236.4	1468.3	1397.2
85°	142.2	173.1	268.9	296.7	336.9	231.8	272.0	534.8	612.0	605.9
87.5°	24.7	27.8	74.2	114.4	123.6	80.4	129.8	191.6	228.7	247.3
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2775.8	0°	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8	2775.8
2890.2	2.5°	2800.6	2704.7	2590.4	2476.0	2401.8	2284.3	2275.1	2204.0	2194.7	2170.0
2982.9	5°	2822.2	2707.8	2476.0	2293.6	2210.1	2142.1	2157.6	2126.7	2117.4	2102.0
3190.0	7.5°	2992.2	2766.5	2420.3	2262.7	2200.9	2170.0	2170.0	2132.9	2105.1	2123.6
3443.5	10°	3103.5	2794.4	2463.6	2306.0	2256.5	2188.5	2213.2	2166.9	2182.3	2145.2
3737.2	12.5°	3282.8	2952.0	2553.3	2370.9	2290.5	2228.7	2253.4	2200.9	2188.5	2191.6
4052.5	15°	3523.9	3057.1	2593.4	2408.0	2352.3	2275.1	2256.5	2210.1	2163.8	2148.3
4398.7	17.5°	3749.5	3186.9	2621.3	2429.6	2340.0	2253.4	2231.8	2173.1	2157.6	2111.2
4791.2	20°	4018.5	3341.5	2658.4	2448.2	2293.6	2207.1	2151.4	2092.7	2040.1	2012.3
5146.7	22.5°	4197.7	3421.9	2676.9	2411.1	2225.6	2145.2	2027.8	1987.6	1913.4	1882.5
5489.8	25°	4491.4	3520.8	2630.5	2309.1	2105.1	1975.2	1870.1	1814.5	1761.9	1721.8
5724.7	27.5°	4565.6	3595.0	2522.4	2136.0	1913.4	1777.4	1687.7	1619.7	1585.7	1523.9
6061.7	30°	4782.0	3520.8	2361.6	1925.8	1731.0	1591.9	1502.3	1452.8	1372.5	1357.0
6330.6	32.5°	4921.1	3542.4	2157.6	1721.8	1520.8	1397.2	1338.5	1289.0	1267.4	1193.2
6741.7	35°	5152.9	3468.2	1950.5	1533.2	1347.7	1251.9	1202.4	1187.0	1115.9	1081.9
7094.1	37.5°	5301.3	3425.0	1743.4	1319.9	1159.2	1119.0	1134.4	1069.5	983.0	918.1
7545.4	40°	5560.9	3409.5	1508.5	1143.7	1029.3	1020.1	1069.5	945.9	788.2	732.6
8086.4	42.5°	5934.9	3304.4	1326.1	986.1	927.3	967.5	976.8	788.2	698.6	652.2
8812.8	45°	6293.5	3326.0	1146.8	816.1	806.8	865.5	843.9	667.7	615.1	581.1
9650.5	47.5°	6982.8	3434.2	970.6	680.0	726.4	782.1	655.3	596.6	547.1	522.4
11168.2	50°	8049.3	3539.3	816.1	621.3	686.2	707.9	562.6	540.9	537.9	488.4
12426.3	52.5°	8689.1	3499.1	788.2	695.5	735.7	707.9	612.0	596.6	571.9	550.2
13718.4	55°	9706.1	3616.6	847.0	813.0	834.6	680.0	686.2	680.0	661.5	605.9
15217.6	57.5°	10516.0	3693.9	924.2	908.8	896.4	707.9	717.1	720.2	707.9	683.1
16787.9	60°	11628.8	3848.4	1004.6	1007.7	1010.8	769.7	785.1	803.7	800.6	791.3
18370.5	62.5°	12311.9	3777.3	1094.3	1143.7	1128.3	896.4	893.3	905.7	905.7	921.2
19075.3	65°	12209.9	3514.6	1140.6	1264.3	1183.9	989.2	989.2	995.3	998.4	1029.3
19103.1	67°	11597.9	3044.8	1115.9	1282.8	1183.9	1026.3	1026.3	1032.4	1010.8	1091.2
18886.7	67.5°	11313.5	2905.7	1094.3	1267.4	1174.6	1023.2	1023.2	1026.3	1007.7	1085.0
17369.0	70°	9839.0	2157.6	942.8	1122.1	1088.1	995.3	995.3	976.8	961.3	1063.3
14985.7	72.5°	8398.6	1567.2	757.3	955.2	983.0	958.2	964.4	918.1	874.8	945.9
11653.5	75°	6432.6	1153.0	590.4	735.7	831.5	896.4	936.6	819.1	763.5	782.1
6302.8	77.5°	3588.8	751.1	466.8	544.0	633.7	834.6	899.5	738.8	624.4	602.8
2129.8	80°	1217.9	438.9	343.1	404.9	435.8	738.8	840.8	599.7	491.5	469.8
720.2	82.5°	460.6	268.9	234.9	278.2	278.2	584.2	686.2	460.6	370.9	479.1
268.9	85°	210.2	160.7	154.6	160.7	160.7	358.6	485.3	299.8	333.8	287.5
98.9	87.5°	83.5	77.3	71.1	68.0	55.6	61.8	166.9	80.4	151.5	40.2
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°
2775.8
2182.3
2077.2
2142.1
2145.2
2182.3
2166.9
2074.1
2024.7
1857.8
1709.4
1511.6
1323.0
1174.6
1051.0
896.4
701.7
630.6
599.7
525.5
485.3
525.5
621.3
704.8
797.5
930.4
1032.4
1066.4
1060.3
1041.7
927.3
748.1
602.8
454.4
488.4
253.5
37.1
0.0

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