

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: P574610

Luminaire Tested: **EPH-VN-04-735-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574610
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

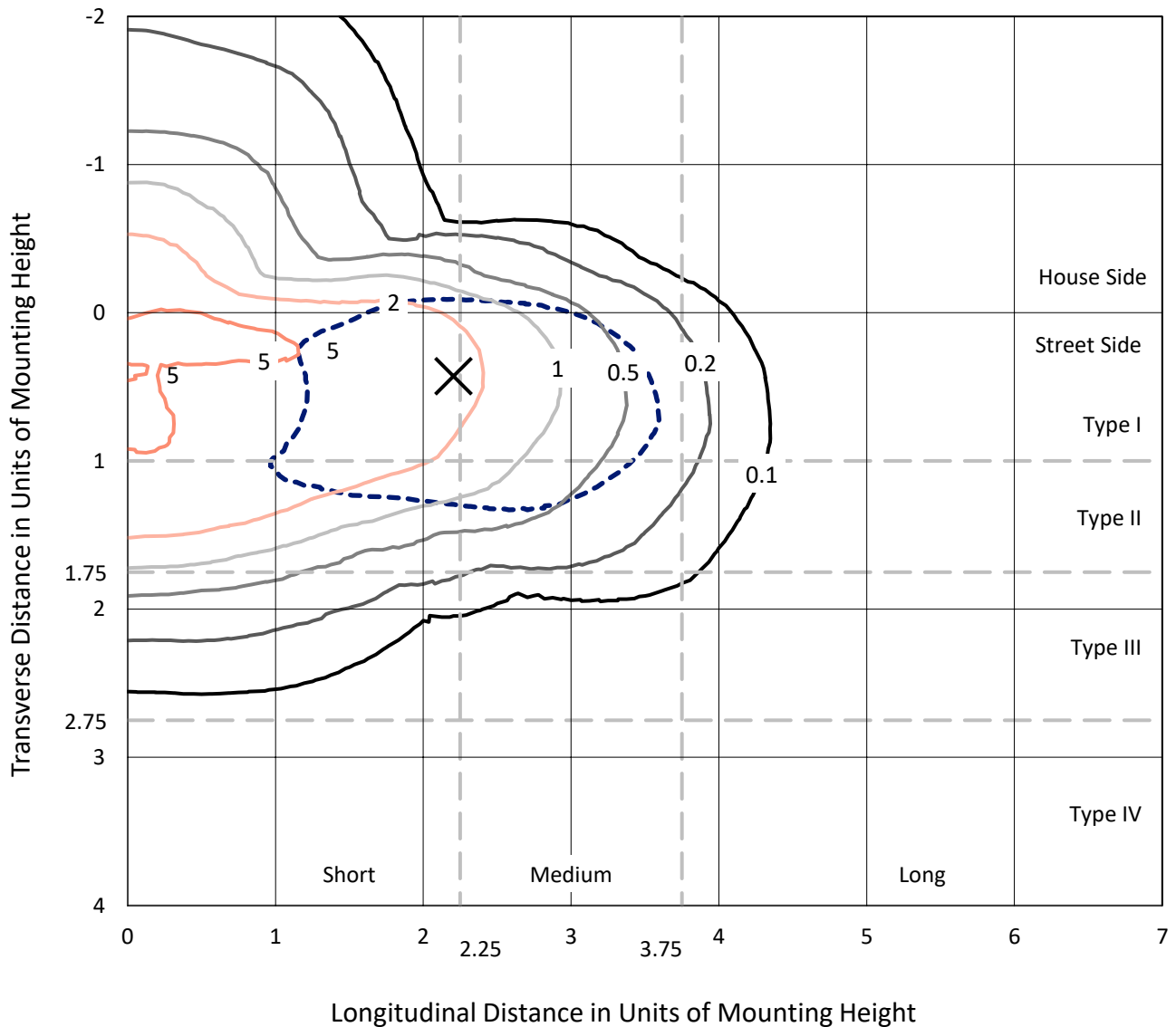
Lumens per Lamp: N/A
Luminaire Lumens: 34453.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8
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

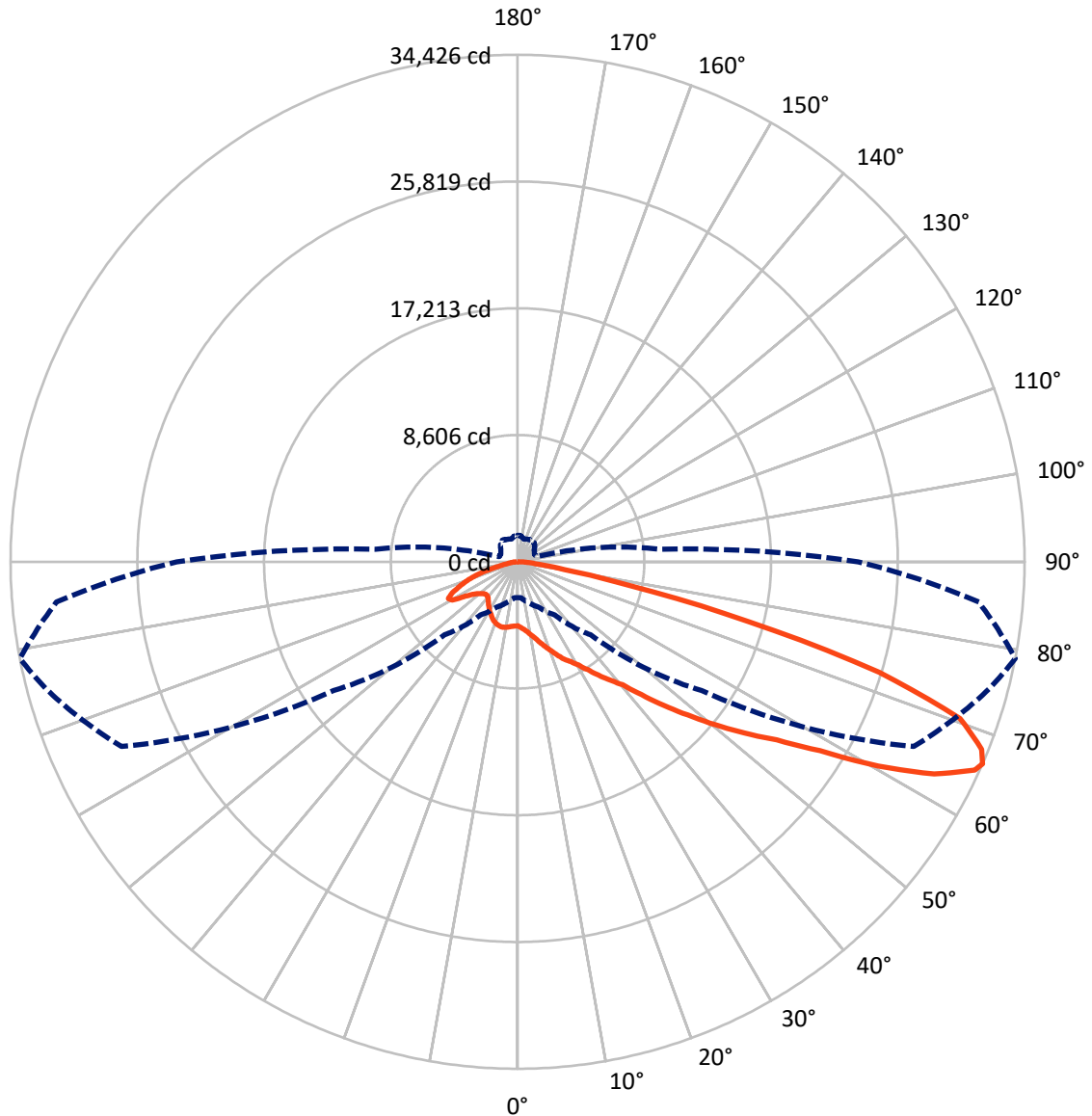
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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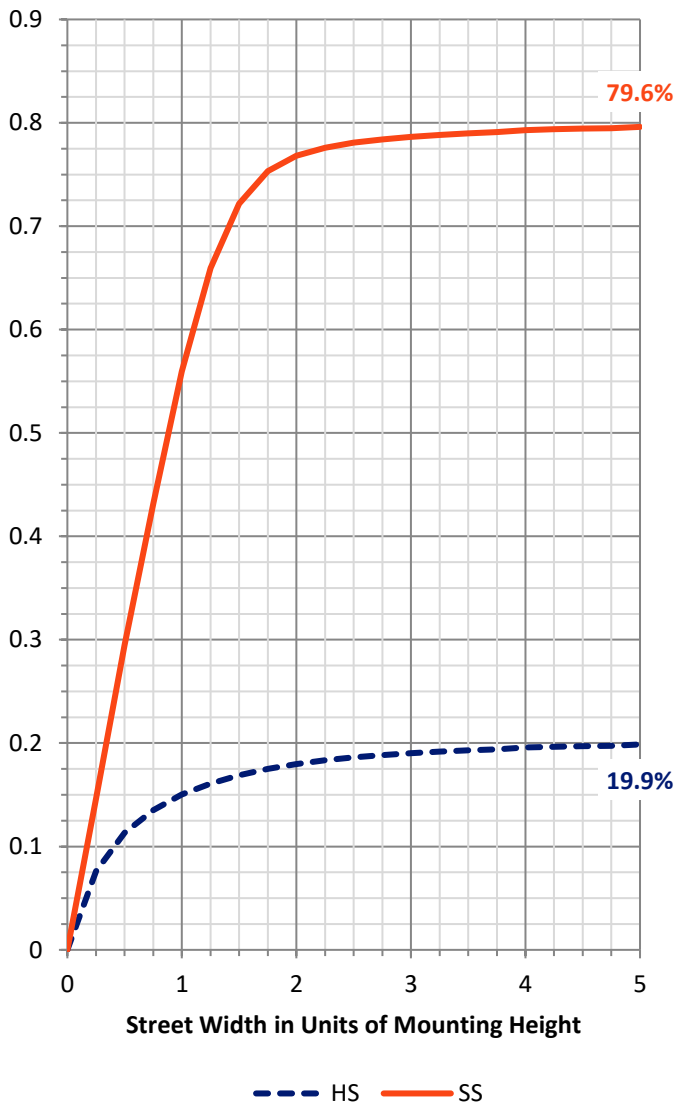
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6957.5	0.0	6957.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27496.4	0.0	27496.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	34453.9	0.0	34453.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	1.2
10°-20°	1321.0	3.8
20°-30°	2267.5	6.6
30°-40°	3502.9	10.2
40°-50°	5610.7	16.3
50°-60°	8377.2	24.3
60°-70°	8607.6	25.0
70°-80°	3815.6	11.1
80°-90°	523.5	1.5
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°	34453.9	100.0
0°-180°	34453.9	100.0

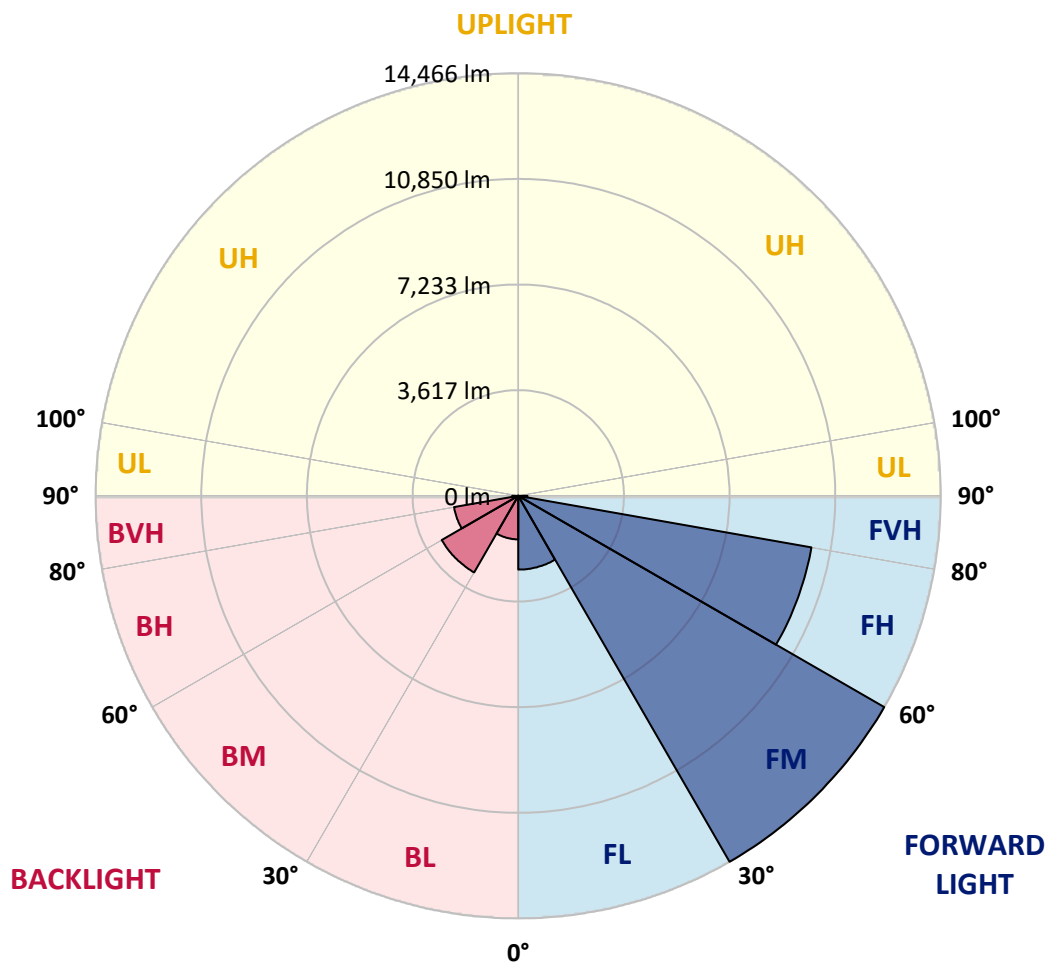


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.7	7.3			
FM (30°-60°)	14466.0	42.0			
FH (60°-80°)	10190.7	29.6			G4/12000
FVH (80°-90°)	314.0	0.9			G3/500
BL (0°-30°)	1490.6	4.3	B3/2500		
BM (30°-60°)	3024.8	8.8	B3/5000		
BH (60°-80°)	2232.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	209.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6
2.5°	4627.2	4631.0	4631.0	4615.8	4619.6	4631.0	4589.3	4498.4	4498.4	4483.2
5°	4911.4	4892.5	4866.0	4869.8	4854.6	4854.6	4809.1	4722.0	4646.2	4615.8
7.5°	4949.3	4968.3	4964.5	5010.0	5032.7	5032.7	5055.5	4983.4	4869.8	4797.8
10°	5025.1	4975.9	4972.1	5078.2	5112.3	5191.9	5282.8	5244.9	5150.2	5047.9
12.5°	5070.6	5100.9	5100.9	5154.0	5233.6	5351.0	5510.2	5582.2	5434.4	5328.3
15°	5138.8	5097.1	5218.4	5263.9	5415.5	5498.8	5726.2	5911.9	5813.4	5684.5
17.5°	5169.1	5142.6	5210.8	5294.2	5551.9	5677.0	5953.6	6211.3	6127.9	6044.6
20°	5324.5	5320.7	5351.0	5419.3	5605.0	5851.3	6196.2	6552.4	6582.7	6431.1
22.5°	5703.5	5654.2	5654.2	5627.7	5707.3	5961.2	6427.3	6920.0	7056.4	6878.3
25°	6052.1	6120.4	6078.7	5957.4	5927.1	6059.7	6594.1	7310.3	7492.2	7325.5
27.5°	6499.3	6522.1	6594.1	6431.1	6222.7	6264.4	6776.0	7530.1	7905.3	7681.7
30°	7143.6	7101.9	7086.7	6904.8	6632.0	6575.1	6984.4	7852.2	8447.2	8132.7
32.5°	7579.4	7681.7	7677.9	7427.8	7098.1	6973.0	7242.1	8155.4	9027.1	8735.2
35°	8443.4	8549.6	8466.2	8098.6	7712.0	7461.9	7613.5	8549.6	9690.3	9462.9
37.5°	9546.2	9796.4	9618.2	8939.9	8394.2	8121.3	8128.9	8977.8	10368.6	10182.9
40°	10308.0	10645.3	10398.9	9762.3	9182.4	8924.7	8822.4	9485.6	11179.6	10982.5
42.5°	11251.6	11532.0	11403.2	10774.1	10095.7	9875.9	9671.3	10334.5	12418.8	12327.9
45°	12282.4	12415.0	12373.4	11975.4	11221.3	11145.5	10694.5	11452.5	13877.9	13915.8
47.5°	13241.2	13313.2	13392.8	13104.8	12634.8	12699.3	11873.1	12650.0	15295.2	15545.3
50°	13487.5	13733.9	13919.5	14112.8	14215.1	14651.0	13173.0	14120.4	16924.8	17409.9
52.5°	13237.4	13218.5	13783.1	14389.5	15412.7	16326.0	14942.8	15947.0	18364.9	19323.7
55°	12100.5	12062.6	12972.1	13775.5	15772.7	17258.3	17470.5	18380.0	20104.3	21351.1
57.5°	10110.9	9875.9	10868.8	12187.7	14992.0	17360.6	20009.6	21991.6	22779.9	24201.0
60°	6794.9	6696.4	7647.6	9220.3	12172.5	15909.1	21529.3	26512.7	26550.6	28149.9
62.5°	4183.8	4202.8	4812.9	5991.5	8523.0	12612.1	20873.6	30124.3	30131.9	31734.9
65°	2736.2	2747.5	3240.2	3892.0	5324.5	8553.3	17262.1	30408.5	32621.7	34111.0
66°	2436.8	2440.6	2865.0	3395.6	4411.2	6999.6	15245.9	29669.5	33182.6	34425.6
67.5°	2054.0	2103.3	2444.4	2853.6	3441.0	5028.9	12096.7	27532.1	32894.6	33986.0
70°	1606.8	1633.4	1902.4	2319.3	2580.8	2910.5	7189.1	22442.6	30109.1	31878.9
72.5°	1288.5	1311.2	1515.9	1883.5	2095.7	1917.6	3914.8	16284.3	23784.1	25671.4
75°	1087.6	1091.4	1190.0	1481.8	1724.3	1440.1	2084.3	10452.0	15261.1	16140.3
77.5°	879.2	894.4	962.6	1129.3	1387.0	1133.1	1243.0	5855.1	7662.8	7727.2
80°	716.3	723.8	765.5	822.4	1057.3	837.5	841.3	2857.4	3285.7	3209.9
82.5°	564.7	572.2	621.5	610.1	776.9	598.8	523.0	1375.7	1512.1	1481.8
85°	318.3	318.3	488.9	488.9	492.7	379.0	318.3	648.0	799.6	746.6
87.5°	102.3	106.1	147.8	155.4	246.3	170.5	155.4	242.5	379.0	333.5
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°
4350.6	0°	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6
4456.7	2.5°	4441.5	4380.9	4354.4	4267.2	4244.5	4187.6	4161.1	4127.0	4115.6	4066.3
4536.3	5°	4475.6	4456.7	4350.6	4240.7	4157.3	4119.4	4062.6	3986.8	3979.2	3911.0
4718.2	7.5°	4619.6	4555.2	4369.5	4252.0	4085.3	3990.5	3865.5	3827.6	3778.3	3755.6
4941.8	10°	4843.2	4680.3	4403.6	4108.0	3903.4	3789.7	3698.7	3672.2	3676.0	3660.8
5165.4	12.5°	5002.4	4847.0	4346.8	3986.8	3721.5	3611.6	3604.0	3630.5	3672.2	3653.3
5426.8	15°	5229.8	4938.0	4305.1	3785.9	3573.7	3543.4	3539.6	3619.2	3615.4	3615.4
5779.3	17.5°	5442.0	5028.9	4153.5	3611.6	3418.3	3441.0	3467.6	3463.8	3501.7	3516.8
6071.1	20°	5711.1	5135.0	3941.3	3437.3	3300.8	3293.2	3289.5	3293.2	3331.1	3353.9
6400.8	22.5°	5946.0	5157.8	3763.2	3270.5	3160.6	3130.3	3081.0	3130.3	3111.3	3118.9
6848.0	25°	6150.7	5161.6	3509.3	3145.4	3020.4	2952.2	2914.3	2910.5	2876.4	2872.6
7101.9	27.5°	6321.2	5032.7	3285.7	2971.1	2853.6	2789.2	2785.4	2743.7	2656.6	2599.7
7401.3	30°	6453.9	4934.2	3130.3	2819.5	2705.8	2694.5	2660.4	2565.6	2451.9	2379.9
7954.6	32.5°	6688.8	4737.1	2918.1	2664.2	2607.3	2592.2	2512.6	2429.2	2323.1	2254.9
8424.5	35°	6863.1	4555.2	2777.8	2531.5	2505.0	2474.7	2406.5	2315.5	2285.2	2270.0
8928.5	37.5°	7060.2	4350.6	2607.3	2417.8	2444.4	2387.5	2307.9	2266.2	2372.3	2345.8
9716.8	40°	7374.7	4206.6	2440.6	2349.6	2376.1	2311.7	2209.4	2194.2	2326.9	2232.1
10728.6	42.5°	7950.8	4202.8	2338.2	2247.3	2266.2	2217.0	2126.0	2118.4	2171.5	2057.8
11994.4	45°	8667.0	4335.4	2262.4	2171.5	2156.3	2148.8	2118.4	2084.3	2038.9	1891.1
13404.2	47.5°	9523.5	4551.4	2247.3	2057.8	2076.8	2141.2	2103.3	2016.1	1898.6	1803.9
14973.1	50°	10561.9	4998.6	2209.4	1974.4	2008.5	2110.9	2080.5	1959.3	1853.2	1792.5
16409.4	52.5°	11710.2	5563.3	2160.1	1845.6	1921.4	2084.3	2099.5	1985.8	1830.4	1777.4
18353.5	55°	13063.1	6397.0	2103.3	1705.4	1819.1	2057.8	2099.5	1910.0	1800.1	1800.1
21320.8	57.5°	15734.8	7897.7	1985.8	1576.5	1728.1	2008.5	2038.9	1913.8	1803.9	1803.9
25925.3	60°	19653.4	10239.8	1762.2	1478.0	1640.9	1940.3	1993.4	1857.0	1762.2	1784.9
29715.0	62.5°	22719.2	10952.2	1572.7	1383.2	1553.8	1815.3	1932.7	1796.3	1712.9	1796.3
31450.7	65°	23374.8	10232.2	1379.4	1280.9	1432.5	1694.0	1845.6	1709.2	1640.9	1803.9
31427.9	66°	23139.9	9671.3	1311.2	1250.6	1379.4	1633.4	1792.5	1678.8	1603.0	1796.3
30715.5	67.5°	22093.9	8830.0	1235.4	1186.2	1307.4	1546.2	1731.9	1637.1	1542.4	1773.6
28123.3	70°	19820.1	7488.4	1106.6	1072.5	1205.1	1402.2	1591.7	1531.0	1447.7	1633.4
22120.4	72.5°	15264.9	5983.9	970.2	974.0	1087.6	1254.4	1451.5	1409.8	1337.8	1432.5
13551.9	75°	9296.1	3823.8	845.1	852.7	947.4	1114.2	1318.8	1288.5	1201.3	1254.4
6264.4	77.5°	4119.4	1894.8	712.5	727.6	803.4	981.5	1148.3	1099.0	1008.1	1019.4
2546.7	80°	1599.3	898.2	579.8	598.8	648.0	784.5	951.2	905.7	826.2	811.0
1171.0	82.5°	769.3	500.2	447.2	454.8	473.7	625.3	818.6	761.7	655.6	587.4
549.5	85°	386.5	310.8	314.5	288.0	314.5	424.4	553.3	462.3	382.8	341.1
197.1	87.5°	155.4	155.4	155.4	132.6	140.2	200.9	257.7	174.3	159.2	94.7
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°
4350.6
4111.8
3903.4
3804.9
3638.1
3679.8
3611.6
3543.4
3334.9
3141.7
2872.6
2607.3
2379.9
2243.5
2281.4
2357.2
2209.4
2023.7
1853.2
1784.9
1781.2
1769.8
1792.5
1788.7
1781.2
1803.9
1811.5
1800.1
1739.5
1572.7
1394.6
1235.4
1011.8
803.4
587.4
348.7
94.7
0.0

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