

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: P574967

Luminaire Tested: **EPH-VN-07-730-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

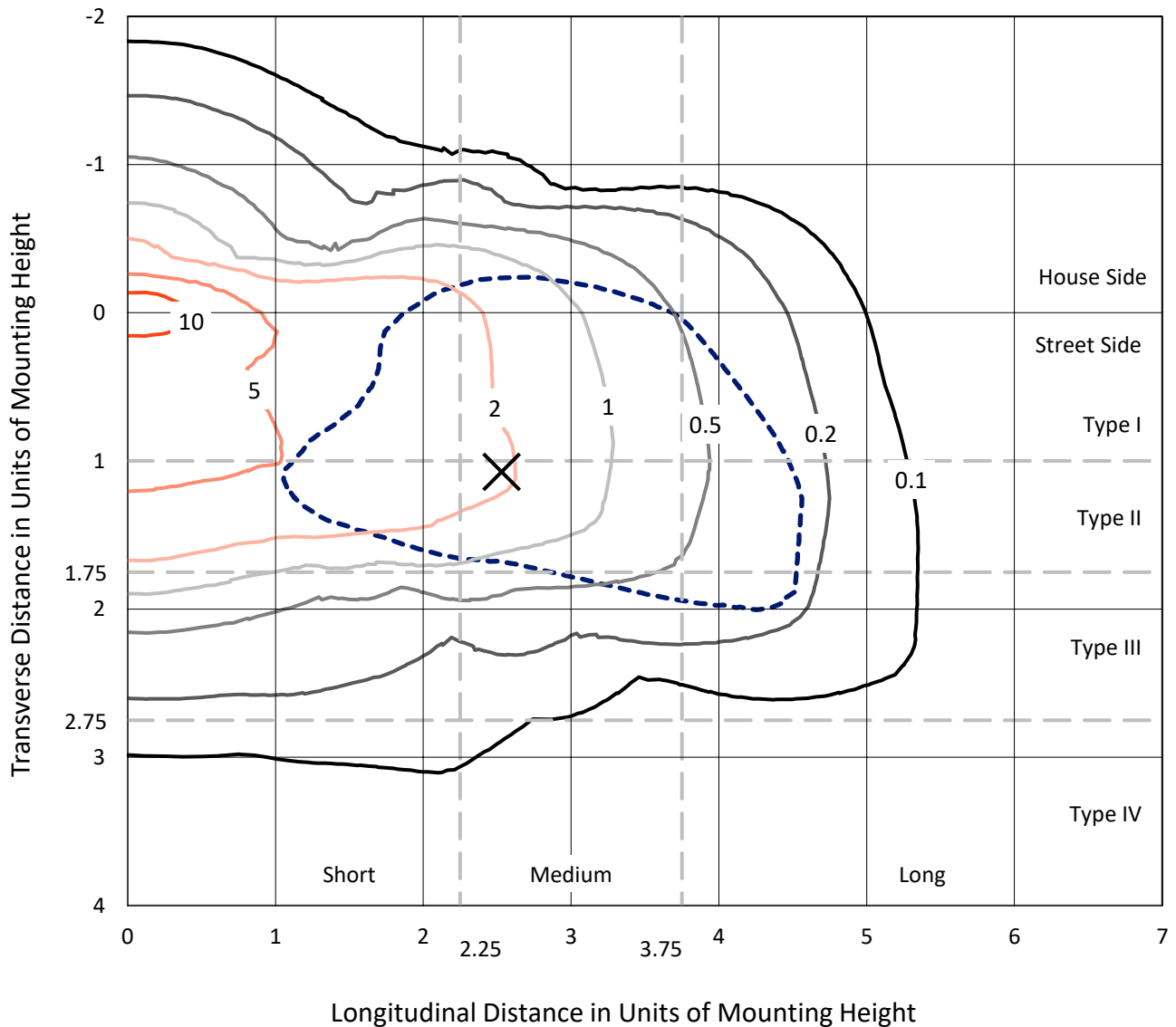
Lumens per Lamp: N/A
Luminaire Lumens: 51253.4 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

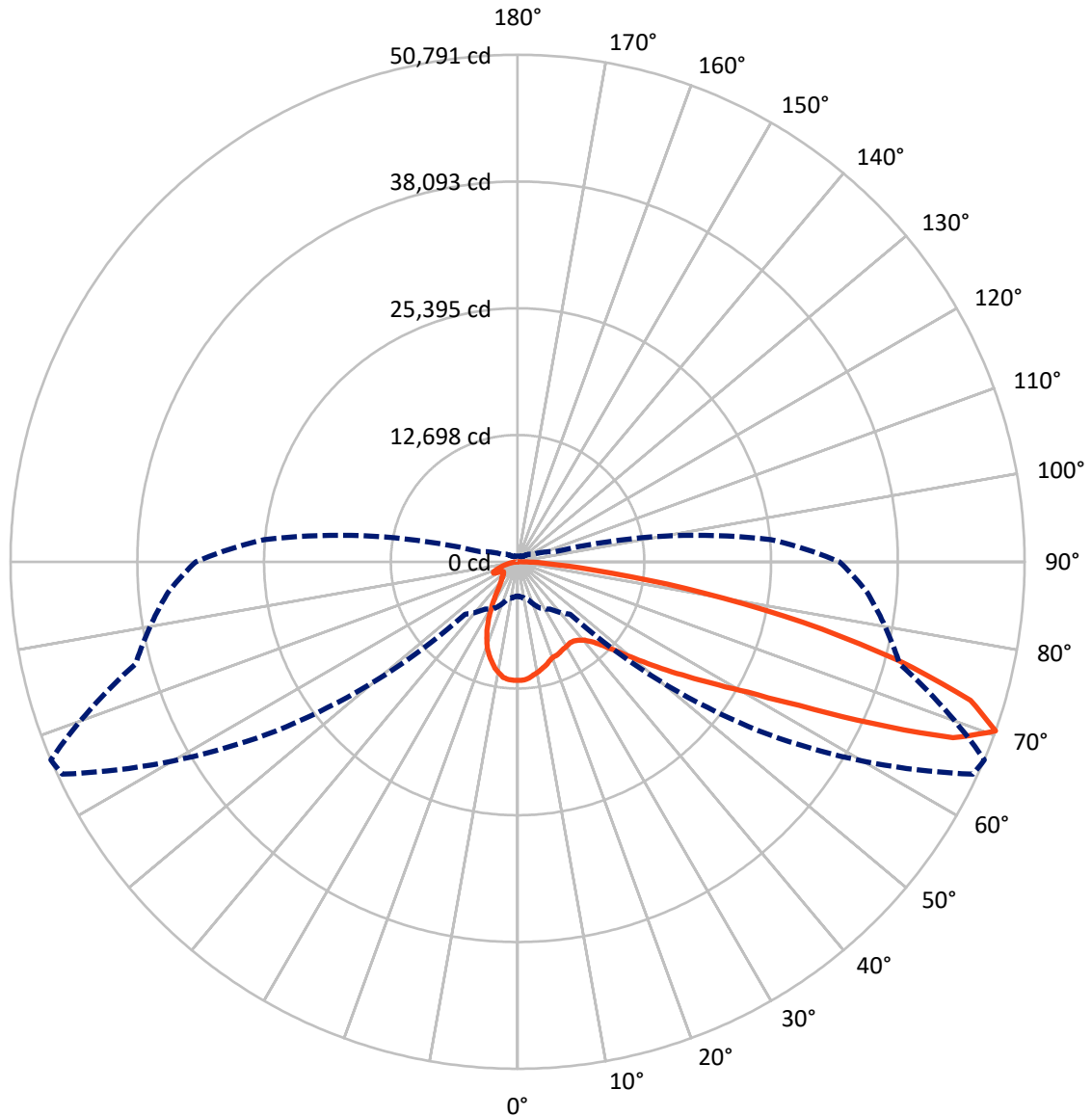
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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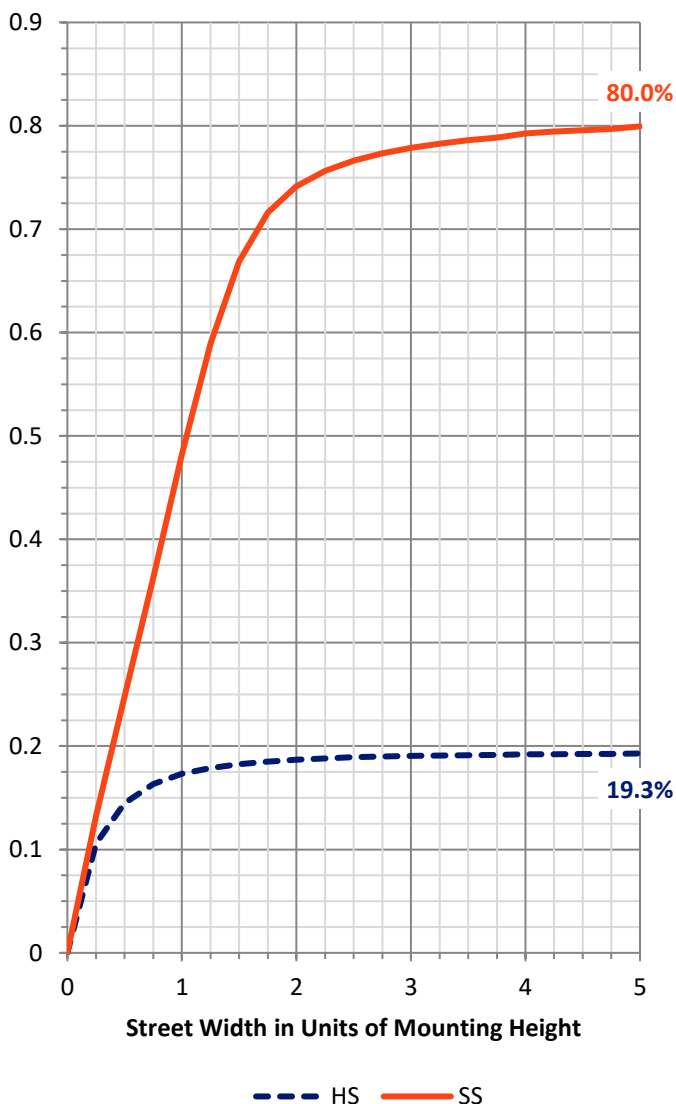
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9982.1	0.0	9982.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	41271.3	0.0	41271.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	51253.4	0.0	51253.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.2	2.0
10°-20°	2479.4	4.8
20°-30°	3348.2	6.5
30°-40°	4480.2	8.7
40°-50°	6588.1	12.9
50°-60°	10269.1	20.0
60°-70°	12649.9	24.7
70°-80°	8938.3	17.4
80°-90°	1465.0	2.9
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°	51253.4	100.0
0°-180°	51253.4	100.0

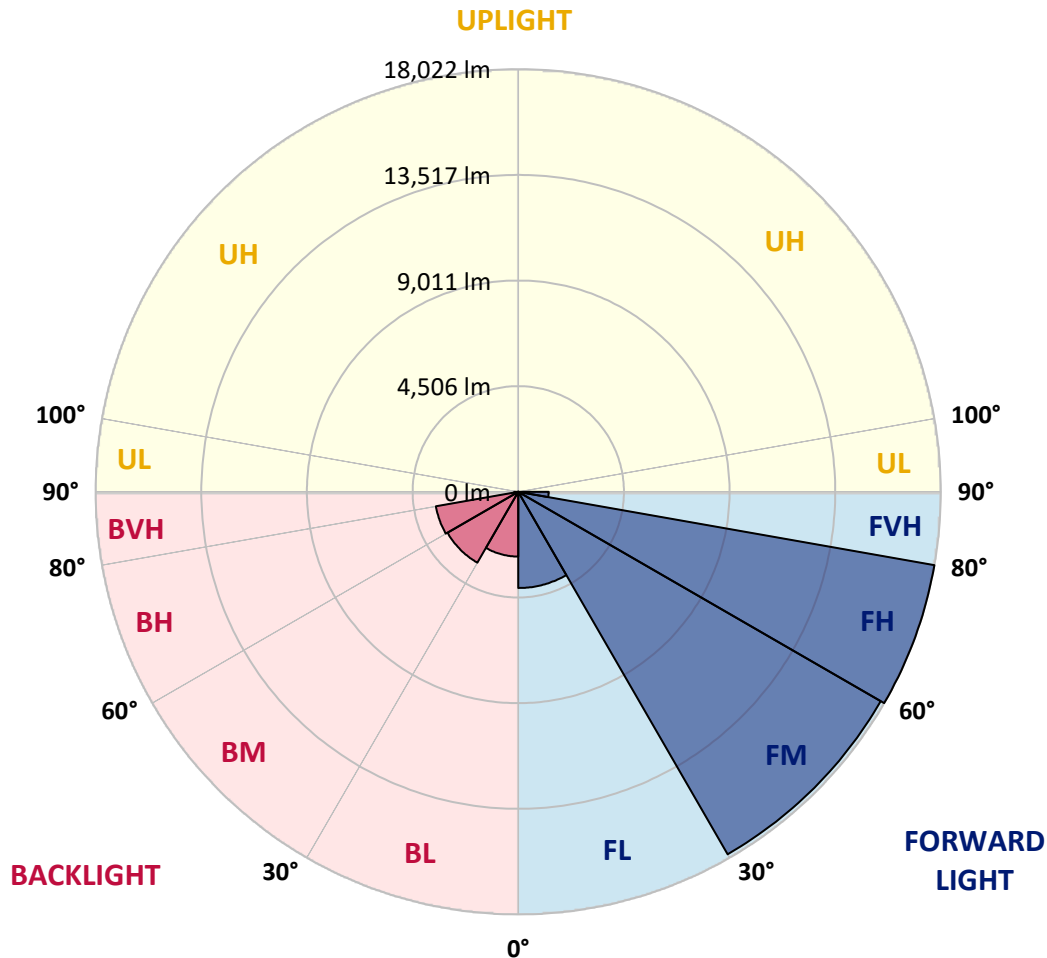


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4102.4	8.0			
FM (30°-60°)	17850.5	34.8			
FH (60°-80°)	18022.4	35.2			G5
FVH (80°-90°)	1296.0	2.5			G5
BL (0°-30°)	2760.4	5.4	B4/5000		
BM (30°-60°)	3487.0	6.8	B3/5000		
BH (60°-80°)	3565.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	169.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0
2.5°	11047.9	11172.7	11218.1	11286.2	11462.1	11592.6	11672.1	11762.9	11870.7	11961.5
5°	10276.2	10344.3	10452.1	10525.9	10747.2	11099.0	11337.3	11723.2	11711.8	11853.7
7.5°	9527.2	9595.3	9646.3	9793.9	10111.6	10429.4	10866.3	11490.5	11445.1	11774.2
10°	9061.9	9010.8	9027.8	9277.5	9527.2	9884.7	10435.1	11070.6	11235.2	11745.8
12.5°	8625.0	8568.2	8704.4	8863.3	9169.7	9493.1	10151.4	10724.5	10974.1	11643.7
15°	8352.6	8312.9	8483.1	8551.2	8914.4	9300.2	9765.5	10463.5	10735.8	11518.9
17.5°	8199.4	8233.4	8295.9	8443.4	8676.0	9005.2	9515.8	10287.5	10406.7	11365.7
20°	8227.8	8267.5	8273.2	8335.6	8494.5	8749.8	9271.8	10100.3	10179.7	11337.3
22.5°	8454.7	8398.0	8420.7	8381.0	8426.4	8625.0	9084.6	9850.6	10157.0	11099.0
25°	8795.2	8715.8	8704.4	8568.2	8483.1	8539.9	9050.5	9788.2	9986.8	11025.2
27.5°	9396.7	9277.5	9277.5	9073.2	8727.1	8636.3	8954.1	9686.1	9862.0	10957.1
30°	9975.5	9975.5	9981.1	9691.7	9305.9	8857.6	8993.8	9646.3	9759.8	10752.8
32.5°	10679.1	10662.1	10633.7	10491.8	9896.0	9226.4	9186.7	9595.3	9652.0	10684.7
35°	11365.7	11320.3	11541.6	11416.7	10809.6	9947.1	9385.3	9618.0	9742.8	10582.6
37.5°	11882.0	11910.4	12370.0	12449.5	11927.4	10764.2	9947.1	9844.9	9964.1	10730.1
40°	12551.6	12665.1	13096.3	13363.0	13045.3	11842.3	10838.0	10225.1	10310.2	11059.3
42.5°	13431.1	13527.6	14078.0	14424.1	14333.3	13215.5	11717.5	11019.5	10951.4	11609.7
45°	14594.4	14611.4	15167.5	15644.1	15831.4	14651.1	13113.4	12023.9	11967.1	12557.3
47.5°	15978.9	15961.9	16308.0	16818.7	17323.7	16364.7	14719.2	13550.3	13346.0	13913.4
50°	17318.0	17244.3	17323.7	17976.3	18946.6	18509.6	16671.2	15417.1	15212.9	15524.9
52.5°	18055.7	18146.5	17930.9	18793.4	20671.6	21046.1	19258.7	17647.1	17471.2	17624.4
55°	17539.3	17726.6	17584.7	18401.8	21426.2	24138.6	22606.5	20229.0	20002.0	19945.2
57.5°	15343.4	15683.8	15712.2	17005.9	21165.2	26533.1	27316.2	23276.1	22935.6	22356.8
60°	11779.9	12120.4	12381.4	13913.4	18929.5	27963.1	32774.9	27611.3	26487.7	24989.7
62.5°	8256.1	8488.8	8749.8	9691.7	14594.4	27123.3	37495.9	33716.8	31645.7	27764.5
65°	6014.8	6196.4	6463.1	7019.1	8965.4	22441.9	39686.2	40968.6	39005.3	31293.9
67.5°	4528.1	4641.6	4993.4	5884.3	6213.4	13862.4	37416.5	48628.9	47040.1	35214.8
70°	3427.3	3523.8	3852.9	5072.8	5804.8	7433.4	29517.8	50336.9	50790.9	39612.4
72.5°	2360.5	2468.3	2837.2	4227.4	5526.8	5895.6	18526.7	45729.4	47448.7	41422.6
75°	1447.0	1520.7	1736.3	3206.0	5487.1	5765.1	10196.8	37473.2	39294.7	38273.3
77.5°	1021.4	1015.7	1055.4	1878.2	4755.1	5799.2	6287.1	27458.0	29228.4	28207.1
80°	743.3	749.0	788.7	1123.5	3228.7	5895.6	4953.7	18390.5	18918.2	14707.8
82.5°	448.3	471.0	567.4	760.4	1940.6	5322.5	4579.2	10219.5	9561.2	4721.0
85°	238.3	238.3	334.8	482.3	1032.7	3972.0	4408.9	4862.9	4074.2	1464.0
87.5°	56.7	56.7	96.5	192.9	414.2	1900.9	3007.4	1934.9	1549.1	493.7
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°
11865.0	0°	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0	11865.0
12018.2	2.5°	11995.5	11927.4	12012.5	11842.3	11706.1	11711.8	11501.9	11490.5	11462.1	11314.6
12069.3	5°	12131.7	12075.0	11978.5	11791.2	11490.5	11189.8	11008.2	10775.5	10679.1	10628.0
12109.0	7.5°	12262.2	12160.1	11882.0	11621.0	11155.7	10588.3	10259.2	9947.1	9549.9	9504.5
12222.5	10°	12296.3	12080.6	11723.2	11167.1	10548.6	9918.7	9169.7	8590.9	8284.5	8046.2
12273.6	12.5°	12245.2	12154.4	11467.8	10752.8	9816.6	8829.2	7955.4	7138.3	6570.9	6275.8
12194.1	15°	12239.5	12080.6	11184.1	10123.0	8925.7	7637.6	6395.0	5413.3	4817.5	4573.5
12177.1	17.5°	12245.2	11865.0	10849.3	9487.5	7876.0	6133.9	4766.4	3960.7	3631.6	3597.5
12222.5	20°	12131.7	11706.1	10497.5	8738.5	6559.5	4607.6	3461.3	3132.2	3132.2	3177.6
12126.0	22.5°	12029.6	11467.8	9941.4	7813.5	5220.4	3336.5	2814.5	2718.0	2825.8	2905.3
12120.4	25°	11887.7	11269.2	9374.0	6854.6	3972.0	2689.6	2445.6	2468.3	2570.5	2712.3
11989.8	27.5°	11683.4	10923.1	8698.7	5742.4	2956.3	2320.8	2258.4	2269.7	2377.5	2440.0
11813.9	30°	11450.8	10571.3	8074.6	4635.9	2343.5	2127.9	2122.2	2150.6	2167.6	2201.6
11762.9	32.5°	11155.7	10106.0	7410.7	3603.2	2110.8	2020.1	1997.4	1980.3	1997.4	1991.7
11604.0	35°	10945.8	9856.3	6735.4	2746.4	1980.3	1923.6	1906.6	1878.2	1855.5	1821.5
11604.0	37.5°	10889.0	9606.6	6026.1	2241.4	1878.2	1849.8	1793.1	1742.0	1713.6	1696.6
11853.7	40°	10855.0	9442.1	5333.9	1969.0	1793.1	1764.7	1696.6	1628.5	1600.2	1583.1
12228.2	42.5°	10974.1	9351.3	4630.2	1832.8	1719.3	1668.3	1594.5	1515.0	1509.4	1498.0
12914.8	45°	11394.0	9464.8	3977.7	1736.3	1645.6	1560.4	1464.0	1424.3	1418.6	1407.2
14055.3	47.5°	12347.3	9748.5	3421.6	1673.9	1566.1	1492.3	1390.2	1333.5	1327.8	1322.1
15768.9	50°	13663.8	10622.3	2956.3	1600.2	1515.0	1412.9	1316.4	1254.0	1242.7	1220.0
18050.0	52.5°	15729.2	12092.0	2678.3	1560.4	1424.3	1339.1	1237.0	1168.9	1140.5	1117.8
20643.2	55°	18055.7	13913.4	2627.2	1492.3	1327.8	1248.4	1157.6	1089.5	1061.1	1032.7
23077.5	57.5°	20705.6	16325.0	2990.4	1447.0	1259.7	1157.6	1055.4	993.0	970.3	941.9
25421.0	60°	23173.9	18730.9	4119.6	1378.9	1197.3	1072.4	970.3	907.9	879.5	851.1
28303.5	62.5°	26028.1	21710.0	6031.8	1378.9	1140.5	981.7	879.5	834.1	817.1	788.7
31225.8	65°	29404.3	24791.1	7427.7	1464.0	1123.5	902.2	794.4	749.0	732.0	715.0
33575.0	67.5°	31974.8	26561.5	6389.3	1690.9	1197.3	834.1	709.3	680.9	669.6	652.5
35152.4	70°	32247.2	25483.4	3852.9	1827.1	1271.0	766.0	635.5	607.2	607.2	590.1
33461.5	72.5°	29801.5	22612.2	2593.2	1628.5	1151.9	686.6	561.8	539.1	527.7	516.4
29273.8	75°	24938.6	19179.2	2048.4	1299.4	885.2	567.4	488.0	465.3	448.3	442.6
19865.8	77.5°	16750.6	12466.5	1515.0	1015.7	652.5	459.6	408.6	385.9	368.8	363.2
7836.2	80°	6434.7	4749.4	976.0	737.7	459.6	363.2	323.4	300.7	289.4	272.4
2156.2	82.5°	1895.2	1537.7	544.7	453.9	295.1	249.7	232.6	215.6	198.6	181.6
800.1	85°	783.1	703.6	334.8	238.3	181.6	147.5	136.2	119.2	102.1	90.8
329.1	87.5°	363.2	300.7	153.2	90.8	62.4	34.0	17.0	5.7	0.0	0.0
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°
11865.0
11365.7
10650.7
9425.0
7955.4
6196.4
4573.5
3625.9
3194.6
2939.3
2701.0
2428.6
2196.0
1974.7
1815.8
1685.3
1588.8
1515.0
1418.6
1322.1
1220.0
1117.8
1021.4
930.6
851.1
783.1
709.3
641.2
578.8
510.7
431.2
346.1
261.0
175.9
79.4
0.0
0.0

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