

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: P574694

Luminaire Tested: **EPH-VN-08-735-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574694
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

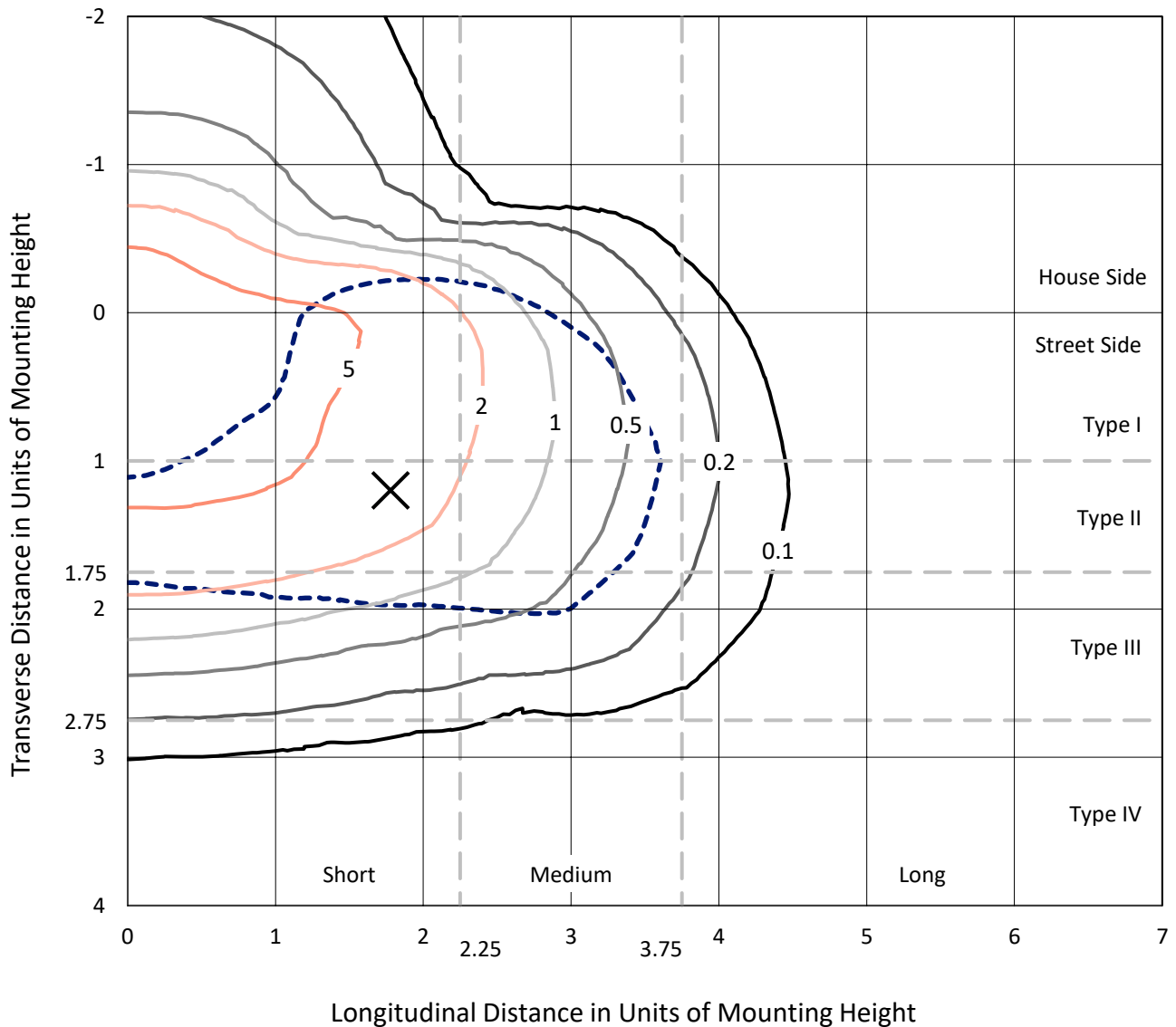
Lumens per Lamp: N/A
Luminaire Lumens: 56002.2 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

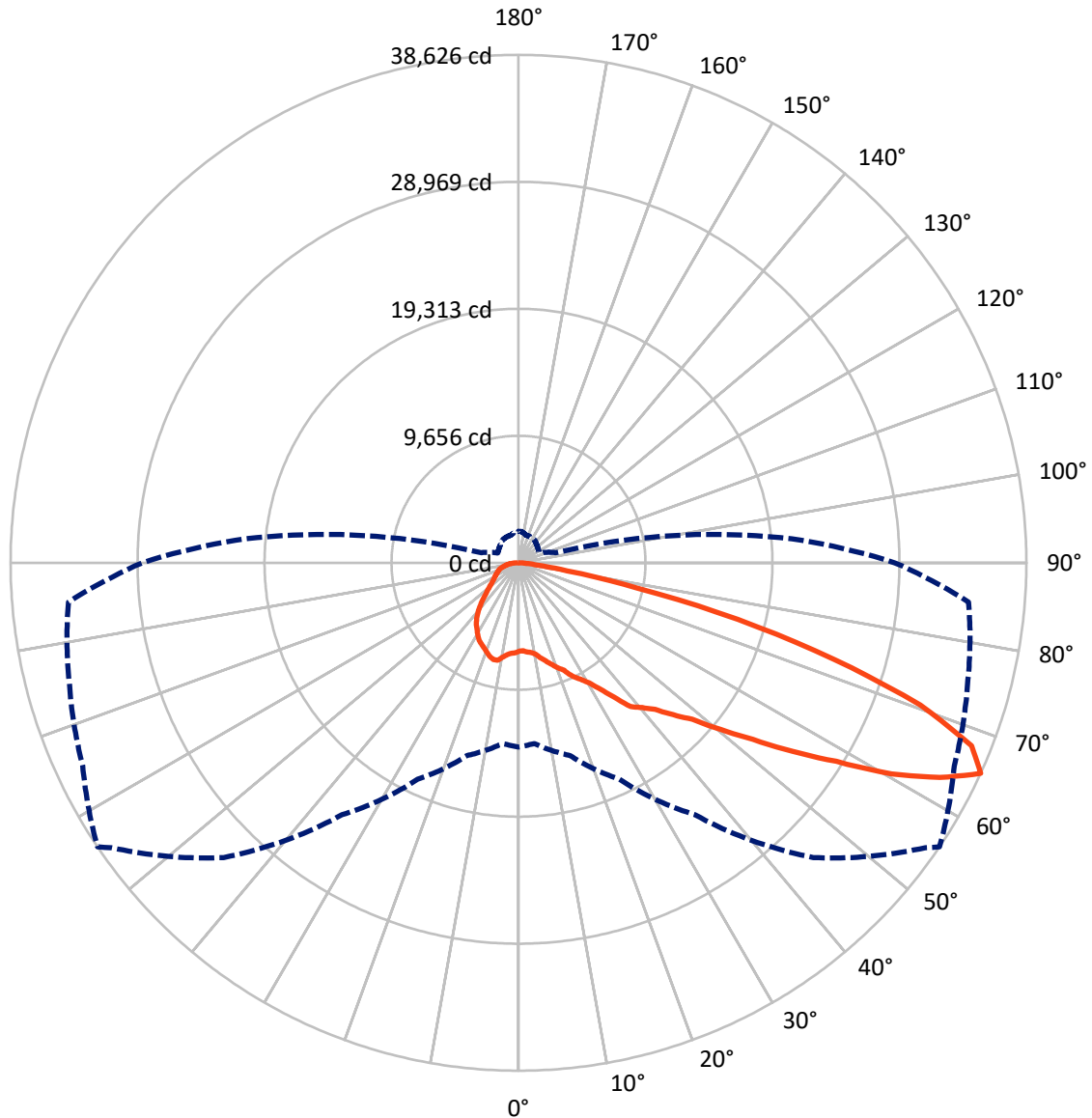
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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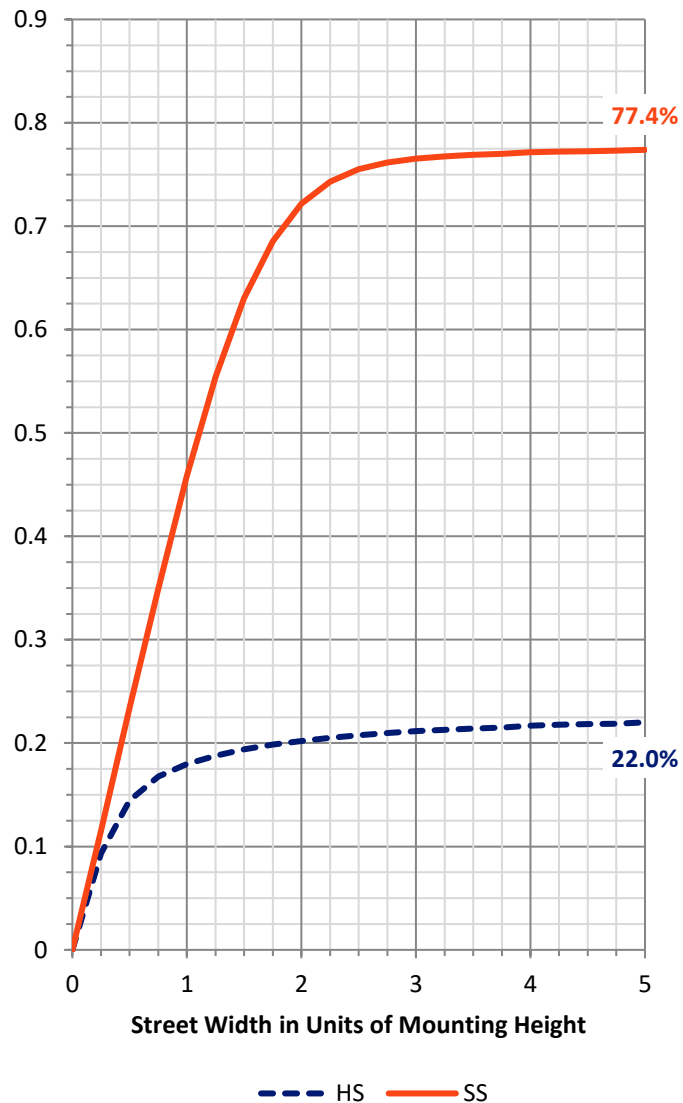
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12559.5	0.0	12559.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	43442.7	0.0	43442.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	56002.2	0.0	56002.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.1	1.2
10°-20°	2163.0	3.9
20°-30°	3851.3	6.9
30°-40°	5767.2	10.3
40°-50°	8544.8	15.3
50°-60°	13166.3	23.5
60°-70°	14905.9	26.6
70°-80°	6186.1	11.0
80°-90°	751.5	1.3
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°	56002.2	100.0
0°-180°	56002.2	100.0

Coefficient of Utilization

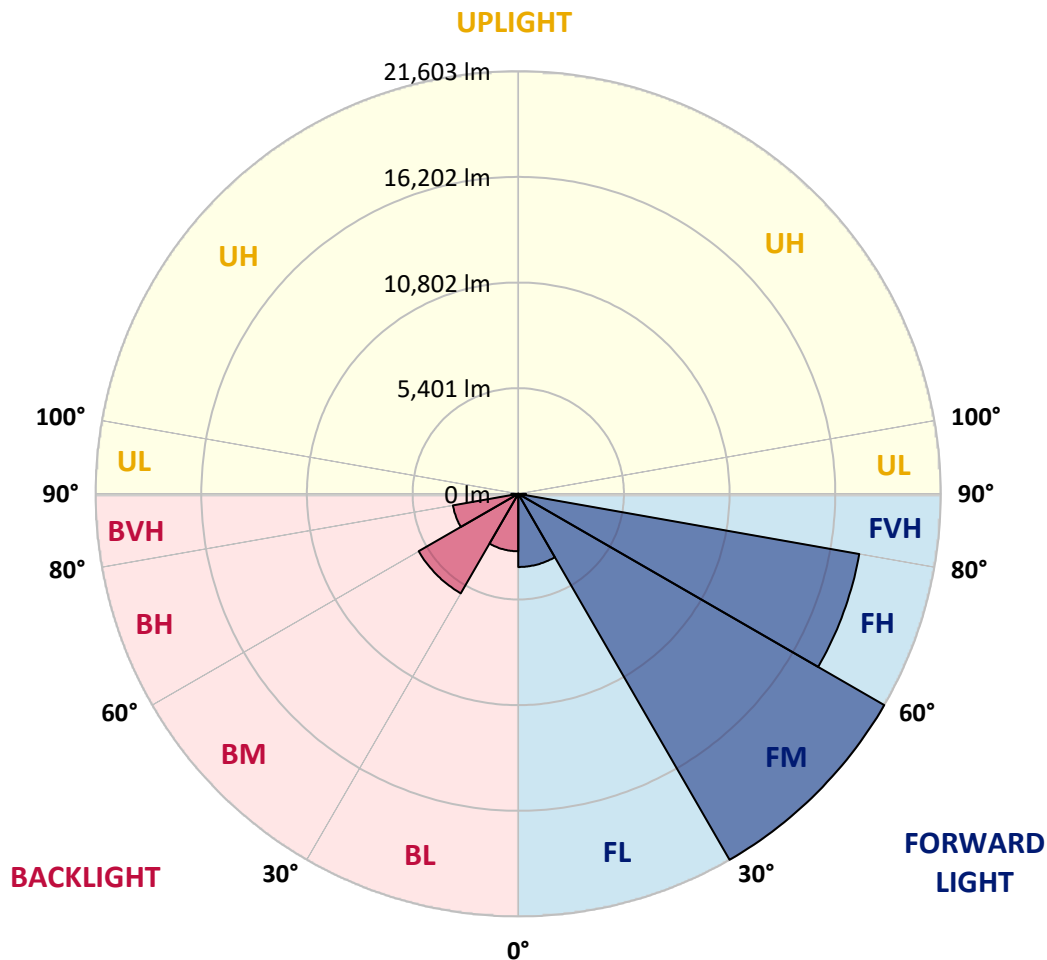


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3742.6	6.7			
FM	(30°-60°)	21603.2	38.6			
FH	(60°-80°)	17700.5	31.6			G5
FVH	(80°-90°)	396.4	0.7			G3/500
BL	(0°-30°)	2937.8	5.2	B4/5000		
BM	(30°-60°)	5875.1	10.5	B4/8500		
BH	(60°-80°)	3391.5	6.1	B4/5000		G4/5000
BVH	(80°-90°)	355.1	0.6			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9
2.5°	6546.1	6581.2	6557.8	6628.1	6686.7	6686.7	6733.6	6698.4	6745.3	6809.8
5°	6762.9	6622.2	6698.4	6733.6	6716.0	6745.3	6698.4	6815.6	6739.4	6862.5
7.5°	6815.6	6868.4	6932.8	6874.2	6927.0	6897.7	6903.5	6886.0	6844.9	6944.6
10°	7202.4	7126.2	7272.7	7184.8	7173.1	7161.4	7138.0	7050.0	7149.7	7155.5
12.5°	7647.8	7577.5	7571.6	7501.3	7595.1	7425.1	7460.3	7413.4	7431.0	7454.4
15°	7970.1	7940.8	8075.6	7993.6	7870.5	7794.3	7876.4	7747.4	7811.9	7800.2
17.5°	8608.9	8603.1	8503.4	8368.6	8298.3	8187.0	8169.4	8116.6	8163.5	8140.1
20°	9054.3	9118.8	9136.3	8978.1	8708.5	8585.5	8556.2	8515.1	8567.9	8550.3
22.5°	9734.1	9634.5	9710.7	9435.2	9335.6	9042.6	8937.1	8878.5	9130.5	9066.0
25°	10167.8	10273.3	10197.1	10103.3	9880.6	9517.3	9441.1	9570.0	9669.6	9599.3
27.5°	11146.5	11041.0	10970.6	10689.3	10542.8	10161.9	10074.0	10027.1	10050.6	10091.6
30°	11890.7	11949.3	11791.1	11591.8	11222.6	10835.9	10630.7	10589.7	10507.7	10437.4
32.5°	12951.5	12863.6	12769.8	12640.9	12324.4	11814.5	11615.3	11462.9	11216.8	10888.6
35°	13461.3	13713.3	13643.0	13297.2	13056.9	12863.6	12804.9	12570.5	12365.4	11849.7
37.5°	14311.1	14416.6	14316.9	14205.6	14094.2	13889.1	13818.8	13883.3	13478.9	12629.1
40°	14861.9	15084.6	15289.8	14979.2	14955.7	14996.7	14563.1	14486.9	13654.7	13209.3
42.5°	15987.1	16080.9	16121.9	16110.2	16245.0	16245.0	15418.7	15254.6	14662.7	14299.3
45°	17475.7	17551.9	17698.4	17803.9	17651.5	17727.7	16549.7	16485.3	15957.8	15887.5
47.5°	18765.0	18946.6	19274.8	19585.4	19784.7	19526.8	18237.5	17780.4	17645.6	18067.6
50°	19890.2	19673.3	20441.0	20757.5	21630.7	22058.5	20101.1	19919.5	19702.6	20511.4
52.5°	20001.5	20294.5	21378.7	22011.6	23810.8	24601.9	22386.7	22310.5	22046.8	22978.6
55°	20798.5	20763.4	21853.4	23224.7	25363.8	26694.1	25363.8	25316.9	24742.6	25627.5
57.5°	20663.7	21021.2	21882.7	23799.0	26764.4	28938.6	28815.5	28493.2	27690.3	28411.2
60°	20206.6	20300.4	21349.4	23781.5	27579.0	31241.7	32542.7	32607.2	30966.3	31540.6
62.5°	17616.3	17833.2	19163.5	21912.0	26998.8	32829.9	36182.0	35953.5	34640.8	33984.4
65°	14012.2	13795.4	15178.4	18149.6	23388.8	31704.7	37776.1	38625.8	36563.0	35361.6
67.5°	8591.3	8538.6	9868.9	12488.5	17499.1	26981.2	36504.4	37166.6	36029.7	35068.6
70°	4424.6	4289.8	5122.0	6968.0	10999.9	19796.4	31769.2	32419.7	33503.8	31452.7
72.5°	2062.9	2033.6	2478.9	3428.3	5602.5	11638.7	24601.9	25070.7	27356.3	26518.3
75°	1213.1	1230.7	1482.7	1793.3	2730.9	5485.3	16327.0	17235.4	19714.3	19110.7
77.5°	908.4	908.4	1054.9	1248.3	1594.0	2121.5	8058.0	9259.4	11527.4	10367.0
80°	668.1	679.8	808.7	937.7	1107.6	1095.9	3199.8	3750.6	5286.1	4518.4
82.5°	521.6	539.2	627.1	697.4	779.4	662.2	1312.7	1412.4	2174.2	1728.8
85°	363.3	375.1	492.3	474.7	474.7	369.2	545.0	574.3	861.5	820.5
87.5°	87.9	99.6	240.3	263.7	199.3	111.3	170.0	193.4	310.6	357.5
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°
6721.9	0°	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9	6721.9
6839.1	2.5°	6751.2	6774.6	6874.2	6821.5	6850.8	6727.7	6827.4	6745.3	6815.6	6780.5
6891.8	5°	6938.7	6886.0	6944.6	6903.5	6903.5	6950.4	7020.7	6968.0	7073.5	7026.6
6932.8	7.5°	7014.9	7020.7	7055.9	7061.8	7032.5	7179.0	7184.8	7167.3	7266.9	7243.4
7214.1	10°	7202.4	7208.3	7272.7	7307.9	7278.6	7331.3	7272.7	7225.9	7220.0	7196.6
7436.8	12.5°	7501.3	7559.9	7548.2	7577.5	7583.3	7360.6	7225.9	6997.3	6968.0	6997.3
7765.0	15°	7776.7	7753.3	7765.0	7823.6	7577.5	7220.0	6979.7	6786.3	6798.1	6803.9
8192.8	17.5°	8104.9	8122.5	8140.1	7870.5	7419.3	6997.3	6786.3	6786.3	6727.7	6751.2
8491.7	20°	8480.0	8409.7	8257.3	7876.4	7143.8	6739.4	6675.0	6675.0	6604.7	6557.8
8814.0	22.5°	8773.0	8632.4	8403.8	7694.7	6897.7	6639.8	6481.6	6370.2	6288.2	6194.4
9171.5	25°	8960.5	8884.3	8439.0	7507.2	6716.0	6376.1	6141.7	5971.7	5866.2	5743.2
9452.8	27.5°	9247.7	9101.2	8538.6	7290.3	6516.8	6112.4	5749.0	5485.3	5286.1	5157.1
9880.6	30°	9634.5	9423.5	8468.3	6979.7	6212.0	5655.3	5227.5	4887.6	4659.0	4553.5
10285.0	32.5°	9950.9	9675.5	8409.7	6698.4	5872.1	5192.3	4623.8	4278.1	4149.2	4014.4
10964.8	35°	10554.6	10009.5	8368.6	6540.2	5567.4	4729.3	4131.6	3832.7	3668.6	3469.4
11369.2	37.5°	11017.5	10589.7	8269.0	6212.0	5174.7	4278.1	3756.5	3486.9	3240.8	3029.8
12306.8	40°	11744.2	11398.5	8274.9	5749.0	4711.8	3891.3	3463.5	3182.2	2871.6	2689.9
13695.7	42.5°	13109.7	12195.5	8310.0	5379.8	4190.2	3574.8	3199.8	2865.7	2555.1	2402.8
15278.0	45°	14785.8	13291.4	8093.2	5045.8	3656.9	3276.0	2883.3	2549.3	2350.0	2238.7
17428.8	47.5°	16713.8	14363.8	7800.2	4418.7	3211.5	2959.5	2590.3	2396.9	2250.4	2185.9
20200.8	50°	18870.5	15899.2	7718.1	3844.4	2865.7	2689.9	2449.6	2303.1	2203.5	2127.3
23324.3	52.5°	21648.3	17686.7	7554.0	3252.5	2566.9	2473.1	2396.9	2297.3	2209.4	2144.9
26237.0	55°	24303.0	19667.5	7378.2	2766.1	2355.9	2367.6	2408.6	2320.7	2244.5	2144.9
29501.2	57.5°	27291.8	21689.3	6727.7	2408.6	2197.6	2314.9	2396.9	2297.3	2221.1	2144.9
32841.6	60°	29137.9	22826.2	5456.0	2098.0	2057.0	2215.2	2326.6	2221.1	2139.0	2168.3
34377.0	62.5°	29888.0	22228.5	4114.0	1904.6	1957.4	2080.4	2215.2	2174.2	2115.6	2226.9
34359.5	65°	28610.4	20851.3	2941.9	1740.5	1822.6	1945.6	2115.6	2162.5	2180.1	2396.9
31558.2	67.5°	25457.5	18155.5	2162.5	1605.7	1681.9	1863.6	2185.9	2262.1	2250.4	2520.0
26483.1	70°	20370.7	14199.7	1687.8	1494.4	1629.2	1928.1	2285.6	2285.6	2203.5	2520.0
20200.8	72.5°	14820.9	10009.5	1453.4	1365.5	1494.4	1769.8	2273.8	2268.0	2162.5	2303.1
12863.6	75°	8972.3	5825.2	1283.4	1236.5	1283.4	1517.8	2174.2	2139.0	1992.5	1980.8
6188.6	77.5°	4471.5	2930.2	1049.0	1095.9	1119.3	1271.7	1910.5	1963.2	1764.0	1717.1
2443.8	80°	1887.0	1277.6	873.2	943.5	943.5	1072.5	1588.2	1623.3	1465.1	1377.2
967.0	82.5°	861.5	732.5	744.3	820.5	767.7	832.2	1260.0	1301.0	1189.7	1043.1
410.2	85°	363.3	416.1	568.5	644.6	568.5	539.2	867.3	914.2	773.6	644.6
175.8	87.5°	164.1	228.6	357.5	468.8	287.2	252.0	463.0	480.6	386.8	287.2
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°
6721.9
6716.0
6962.1
7208.3
7196.6
7009.0
6886.0
6757.0
6487.5
6141.7
5766.6
5215.7
4612.1
4008.5
3451.8
3035.7
2707.5
2414.5
2262.1
2174.2
2139.0
2139.0
2139.0
2139.0
2144.9
2197.6
2396.9
2537.5
2467.2
2221.1
1957.4
1687.8
1347.9
1019.7
650.5
269.6
0.0

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