

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: P574992

Luminaire Tested: **EPH-VN-08-760-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-760-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

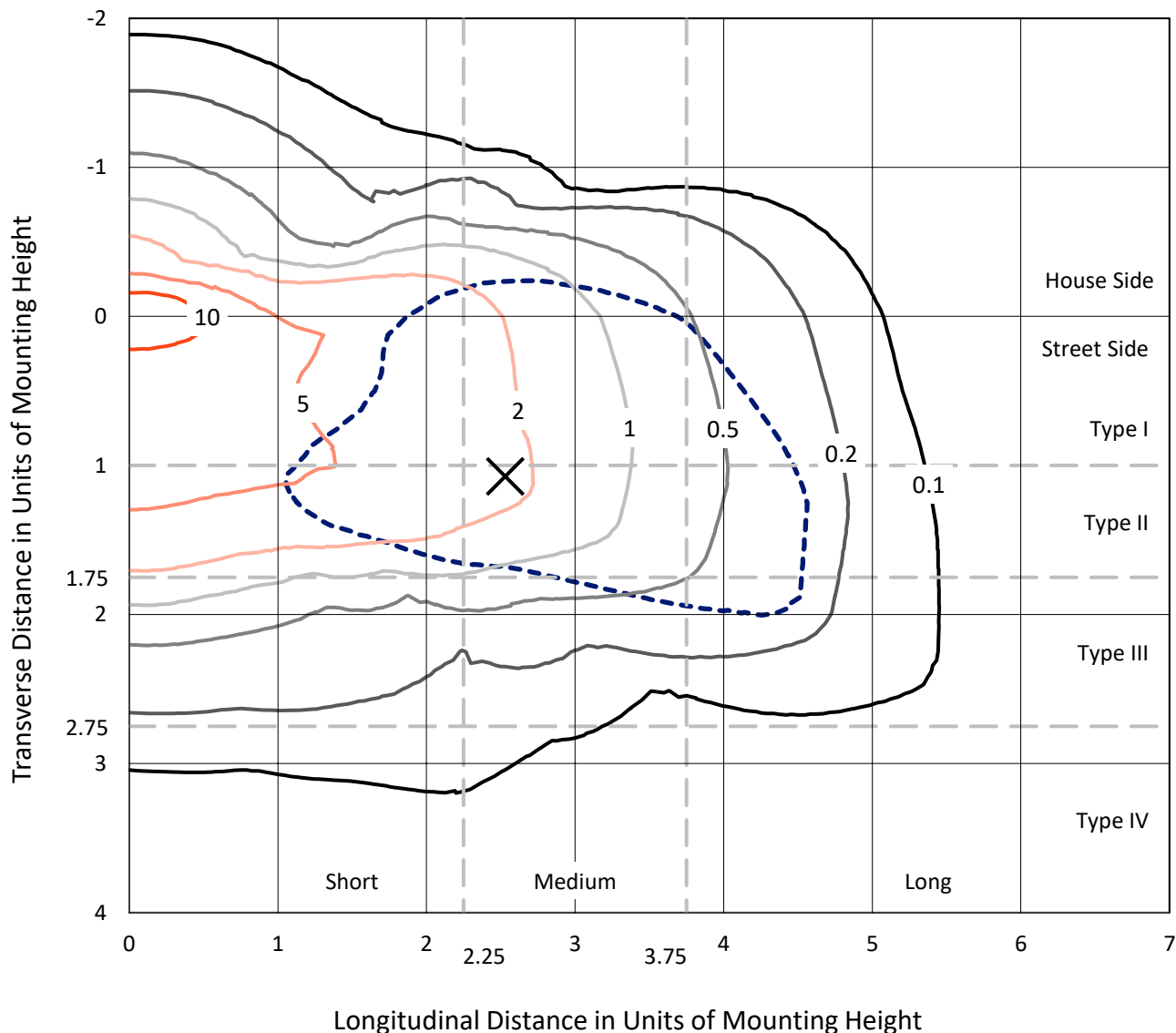
Lumens per Lamp: N/A
Luminaire Lumens: 56856.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

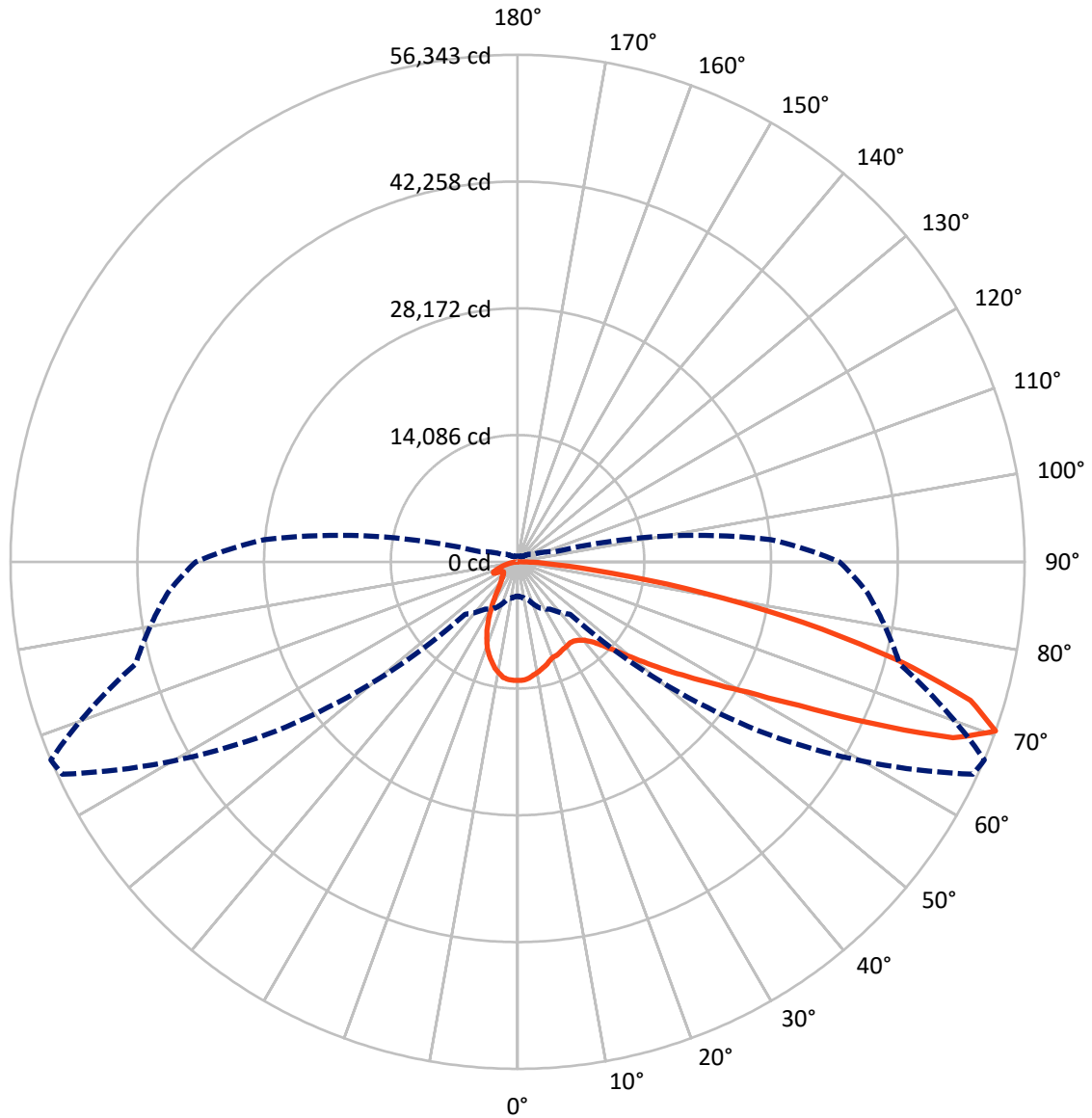
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 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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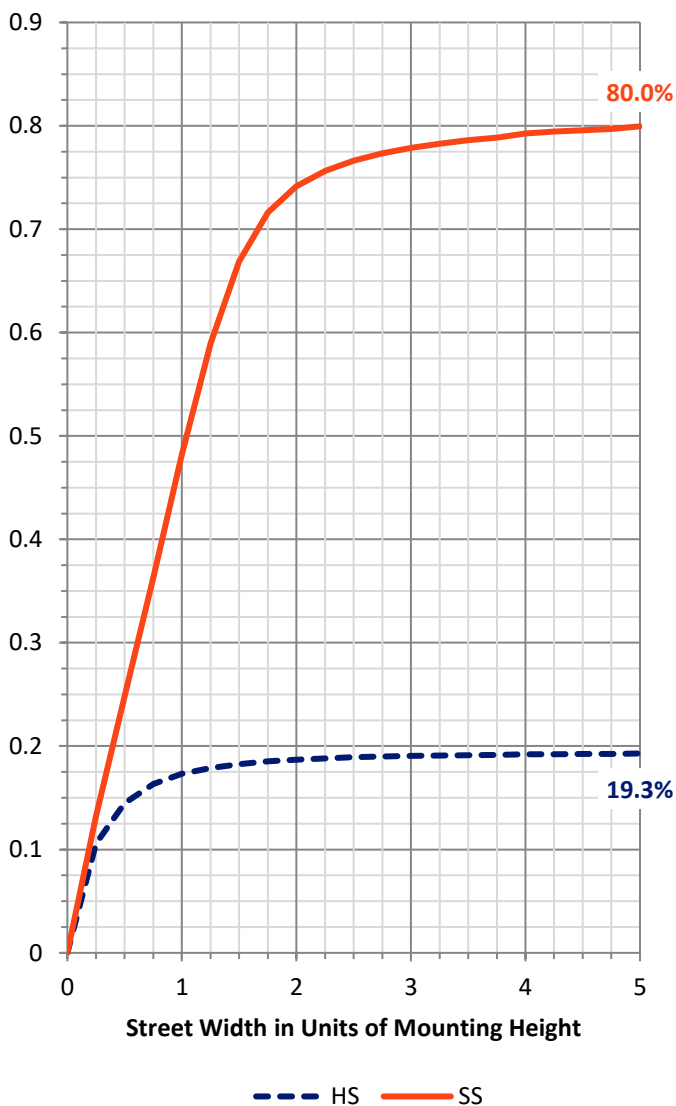
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11073.4	0.0	11073.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	45783.1	0.0	45783.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	56856.5	0.0	56856.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.4	2.0
10°-20°	2750.4	4.8
20°-30°	3714.3	6.5
30°-40°	4970.0	8.7
40°-50°	7308.3	12.9
50°-60°	11391.8	20.0
60°-70°	14032.8	24.7
70°-80°	9915.4	17.4
80°-90°	1625.2	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°	56856.5	100.0
0°-180°	56856.5	100.0

Coefficient of Utilization

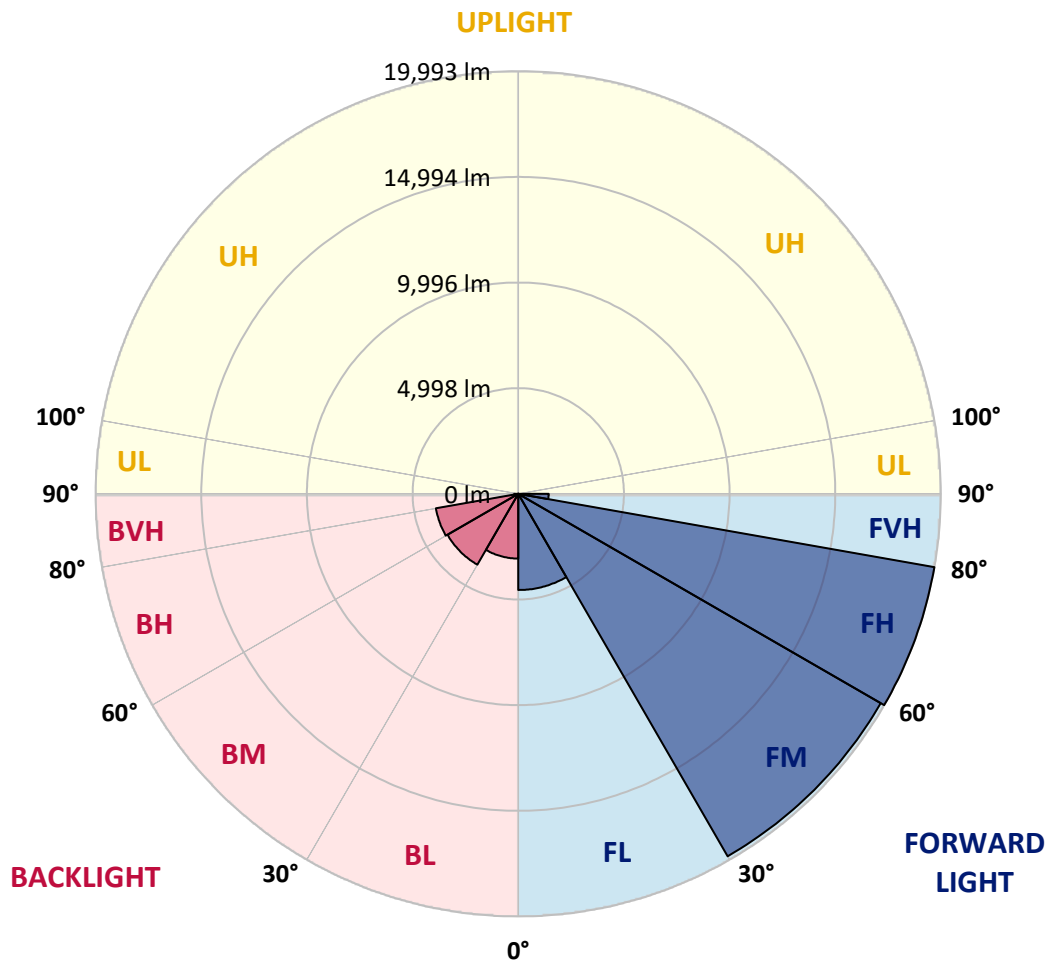


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4550.9	8.0			
FM (30°-60°)	19801.9	34.8			
FH (60°-80°)	19992.6	35.2			G5
FVH (80°-90°)	1437.7	2.5			G5
BL (0°-30°)	3062.2	5.4	B4/5000		
BM (30°-60°)	3868.2	6.8	B3/5000		
BH (60°-80°)	3955.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	187.5	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°	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1
2.5°	12255.7	12394.2	12444.5	12520.0	12715.2	12860.0	12948.1	13048.8	13168.4	13269.1
5°	11399.6	11475.1	11594.7	11676.6	11922.1	12312.3	12576.7	13004.7	12992.1	13149.5
7.5°	10568.7	10644.2	10700.9	10864.6	11217.1	11569.6	12054.2	12746.7	12696.3	13061.4
10°	10052.5	9995.9	10014.8	10291.7	10568.7	10965.3	11575.8	12280.8	12463.4	13029.9
12.5°	9567.9	9504.9	9656.0	9832.2	10172.1	10530.9	11261.1	11896.9	12173.8	12916.6
15°	9265.7	9221.7	9410.5	9486.0	9888.9	10316.9	10833.1	11607.3	11909.5	12778.1
17.5°	9095.8	9133.5	9202.8	9366.4	9624.5	9989.6	10556.1	11412.2	11544.4	12608.2
20°	9127.2	9171.3	9177.6	9246.8	9423.1	9706.3	10285.4	11204.5	11292.6	12576.7
22.5°	9379.0	9316.1	9341.3	9297.2	9347.5	9567.9	10077.7	10927.5	11267.4	12312.3
25°	9756.7	9668.6	9656.0	9504.9	9410.5	9473.4	10040.0	10858.3	11078.6	12230.5
27.5°	10423.9	10291.7	10291.7	10065.1	9681.2	9580.4	9932.9	10745.0	10940.1	12155.0
30°	11066.0	11066.0	11072.3	10751.3	10323.2	9825.9	9977.0	10700.9	10826.8	11928.3
32.5°	11846.5	11827.6	11796.2	11638.8	10977.9	10235.1	10191.0	10644.2	10707.2	11852.8
35°	12608.2	12557.8	12803.3	12664.8	11991.3	11034.5	10411.3	10669.4	10807.9	11739.5
37.5°	13181.0	13212.5	13722.3	13810.4	13231.3	11940.9	11034.5	10921.2	11053.4	11903.2
40°	13923.8	14049.6	14528.0	14823.9	14471.4	13136.9	12022.8	11342.9	11437.4	12268.3
42.5°	14899.4	15006.4	15617.0	16001.0	15900.3	14660.2	12998.4	12224.2	12148.7	12878.8
45°	16189.8	16208.7	16825.6	17354.3	17562.1	16252.8	14546.9	13338.3	13275.4	13930.0
47.5°	17725.7	17706.8	18090.8	18657.3	19217.5	18153.8	16328.3	15031.6	14805.0	15434.5
50°	19211.3	19129.4	19217.5	19941.4	21017.8	20533.1	18493.7	17102.5	16875.9	17222.1
52.5°	20029.6	20130.3	19891.1	20847.9	22931.4	23346.8	21364.0	19576.3	19381.2	19551.2
55°	19456.7	19664.5	19507.1	20413.5	23768.6	26777.4	25077.9	22440.4	22188.6	22125.7
57.5°	17020.7	17398.4	17429.9	18865.0	23479.0	29433.8	30302.4	25820.6	25442.9	24800.9
60°	13067.7	13445.4	13734.9	15434.5	20998.9	31020.0	36357.9	30629.7	29383.4	27721.6
62.5°	9158.7	9416.8	9706.3	10751.3	16189.8	30088.4	41595.0	37402.8	35105.2	30799.7
65°	6672.3	6873.8	7169.6	7786.5	9945.5	24895.3	44024.7	45447.3	43269.4	34715.0
67.5°	5023.1	5149.0	5539.3	6527.5	6892.6	15377.8	41506.9	53945.1	52182.6	39064.6
70°	3802.0	3909.0	4274.1	5627.4	6439.4	8246.0	32744.7	55839.8	56343.4	43942.9
72.5°	2618.6	2738.2	3147.3	4689.5	6131.0	6540.1	20552.0	50728.5	52635.8	45950.9
75°	1605.1	1687.0	1926.2	3556.5	6086.9	6395.4	11311.5	41569.8	43590.4	42457.4
77.5°	1133.0	1126.7	1170.8	2083.5	5274.9	6433.1	6974.5	30459.8	32423.7	31290.7
80°	824.6	830.9	875.0	1246.3	3581.7	6540.1	5495.2	20400.9	20986.3	16315.7
82.5°	497.3	522.5	629.5	843.5	2152.8	5904.4	5079.8	11336.7	10606.5	5237.1
85°	264.4	264.4	371.4	535.0	1145.6	4406.3	4890.9	5394.5	4519.6	1624.0
87.5°	62.9	62.9	107.0	214.0	459.5	2108.7	3336.2	2146.5	1718.4	547.6
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°
13162.1	0°	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1	13162.1
13332.1	2.5°	13306.9	13231.3	13325.8	13136.9	12985.8	12992.1	12759.2	12746.7	12715.2	12551.5
13388.7	5°	13457.9	13395.0	13288.0	13080.3	12746.7	12413.0	12211.6	11953.5	11846.5	11789.9
13432.8	7.5°	13602.7	13489.4	13181.0	12891.4	12375.3	11745.8	11380.7	11034.5	10593.9	10543.5
13558.7	10°	13640.5	13401.3	13004.7	12387.9	11701.7	11003.0	10172.1	9530.1	9190.2	8925.8
13615.3	12.5°	13583.8	13483.1	12721.5	11928.3	10889.7	9794.5	8825.1	7918.7	7289.2	6961.9
13527.2	15°	13577.5	13401.3	12406.7	11229.6	9901.5	8472.6	7094.1	6005.1	5344.2	5073.5
13508.3	17.5°	13583.8	13162.1	12035.4	10524.6	8737.0	6804.5	5287.5	4393.7	4028.6	3990.8
13558.7	20°	13457.9	12985.8	11645.1	9693.8	7276.6	5111.3	3839.7	3474.6	3474.6	3525.0
13451.7	22.5°	13344.6	12721.5	11028.2	8667.7	5791.1	3701.3	3122.1	3015.1	3134.7	3222.9
13445.4	25°	13187.3	12501.2	10398.8	7603.9	4406.3	2983.7	2713.0	2738.2	2851.5	3008.8
13300.6	27.5°	12960.7	12117.2	9649.7	6370.2	3279.5	2574.5	2505.3	2517.9	2637.5	2706.7
13105.4	30°	12702.6	11726.9	8957.3	5142.7	2599.7	2360.5	2354.2	2385.7	2404.6	2442.3
13048.8	32.5°	12375.3	11210.8	8220.8	3997.1	2341.6	2240.9	2215.7	2196.8	2215.7	2209.4
12872.5	35°	12142.4	10933.8	7471.7	3046.6	2196.8	2133.9	2115.0	2083.5	2058.3	2020.6
12872.5	37.5°	12079.4	10656.8	6684.9	2486.4	2083.5	2052.1	1989.1	1932.5	1901.0	1882.1
13149.5	40°	12041.7	10474.3	5917.0	2184.2	1989.1	1957.6	1882.1	1806.6	1775.1	1756.2
13565.0	42.5°	12173.8	10373.6	5136.4	2033.2	1907.3	1850.6	1768.8	1680.7	1674.4	1661.8
14326.6	45°	12639.6	10499.5	4412.5	1926.2	1825.4	1731.0	1624.0	1580.0	1573.7	1561.1
15591.8	47.5°	13697.1	10814.2	3795.7	1856.9	1737.3	1655.5	1542.2	1479.2	1472.9	1466.7
17492.8	50°	15157.5	11783.6	3279.5	1775.1	1680.7	1567.4	1460.4	1391.1	1378.5	1353.3
20023.3	52.5°	17448.8	13413.9	2971.1	1731.0	1580.0	1485.5	1372.2	1296.7	1265.2	1240.0
22899.9	55°	20029.6	15434.5	2914.4	1655.5	1472.9	1384.8	1284.1	1208.6	1177.1	1145.6
25600.3	57.5°	22969.2	18109.7	3317.3	1605.1	1397.4	1284.1	1170.8	1101.6	1076.4	1044.9
28200.0	60°	25707.3	20778.6	4569.9	1529.6	1328.2	1189.7	1076.4	1007.1	975.7	944.2
31397.7	62.5°	28873.5	24083.3	6691.2	1529.6	1265.2	1089.0	975.7	925.3	906.4	875.0
34639.4	65°	32618.8	27501.3	8239.7	1624.0	1246.3	1000.8	881.3	830.9	812.0	793.1
37245.4	67.5°	35470.3	29465.2	7087.8	1875.8	1328.2	925.3	786.8	755.4	742.8	723.9
38995.3	70°	35772.5	28269.2	4274.1	2026.9	1410.0	849.8	705.0	673.5	673.5	654.6
37119.5	72.5°	33059.5	25084.2	2876.7	1806.6	1277.8	761.7	623.2	598.0	585.4	572.8
32474.1	75°	27665.0	21275.9	2272.4	1441.5	982.0	629.5	541.3	516.2	497.3	491.0
22037.5	77.5°	18581.8	13829.3	1680.7	1126.7	723.9	509.9	453.2	428.0	409.2	402.9
8692.9	80°	7138.1	5268.6	1082.7	818.3	509.9	402.9	358.8	333.6	321.0	302.1
2392.0	82.5°	2102.4	1705.8	604.3	503.6	327.3	277.0	258.1	239.2	220.3	201.4
887.5	85°	868.7	780.5	371.4	264.4	201.4	163.7	151.1	132.2	113.3	100.7
365.1	87.5°	402.9	333.6	170.0	100.7	69.2	37.8	18.9	6.3	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°
13162.1
12608.2
11815.0
10455.4
8825.1
6873.8
5073.5
4022.3
3543.9
3260.6
2996.3
2694.1
2436.0
2190.5
2014.3
1869.5
1762.5
1680.7
1573.7
1466.7
1353.3
1240.0
1133.0
1032.3
944.2
868.7
786.8
711.3
642.1
566.5
478.4
384.0
289.6
195.1
88.1
0.0
0.0

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