

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: P575386

Luminaire Tested: **EPH-VN-08-750-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575386
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

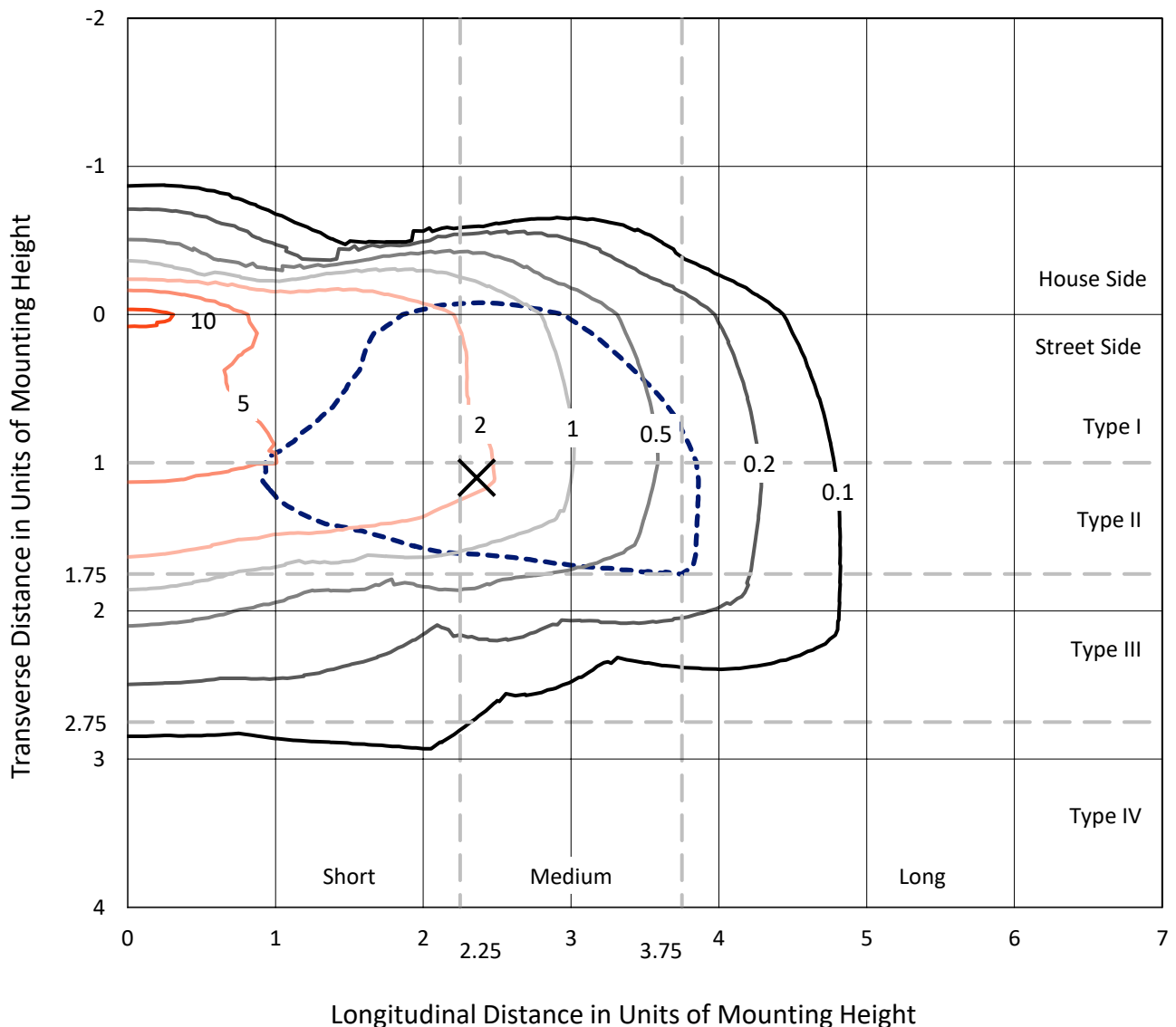
Lumens per Lamp: N/A
Luminaire Lumens: 40555.6 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

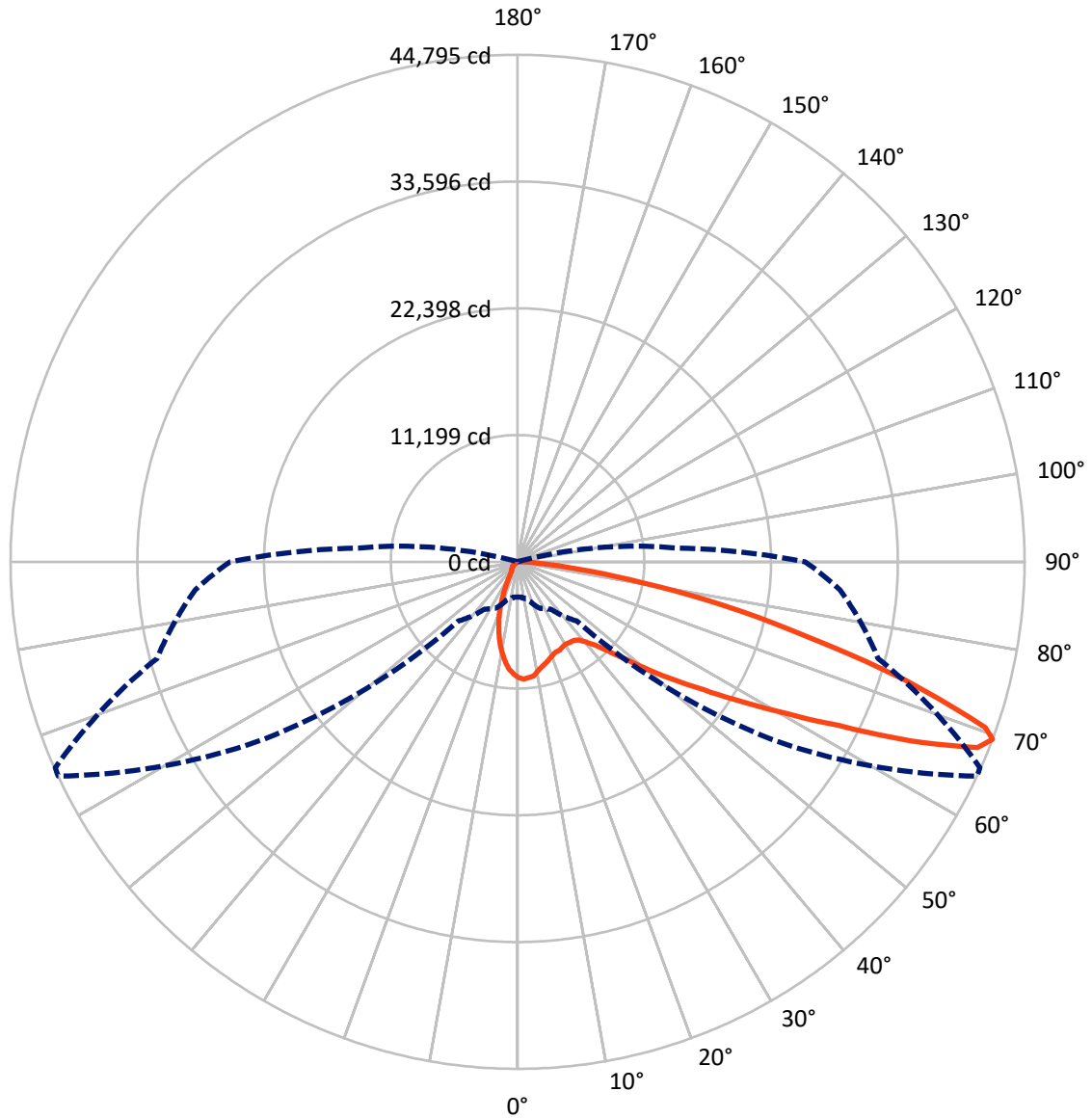
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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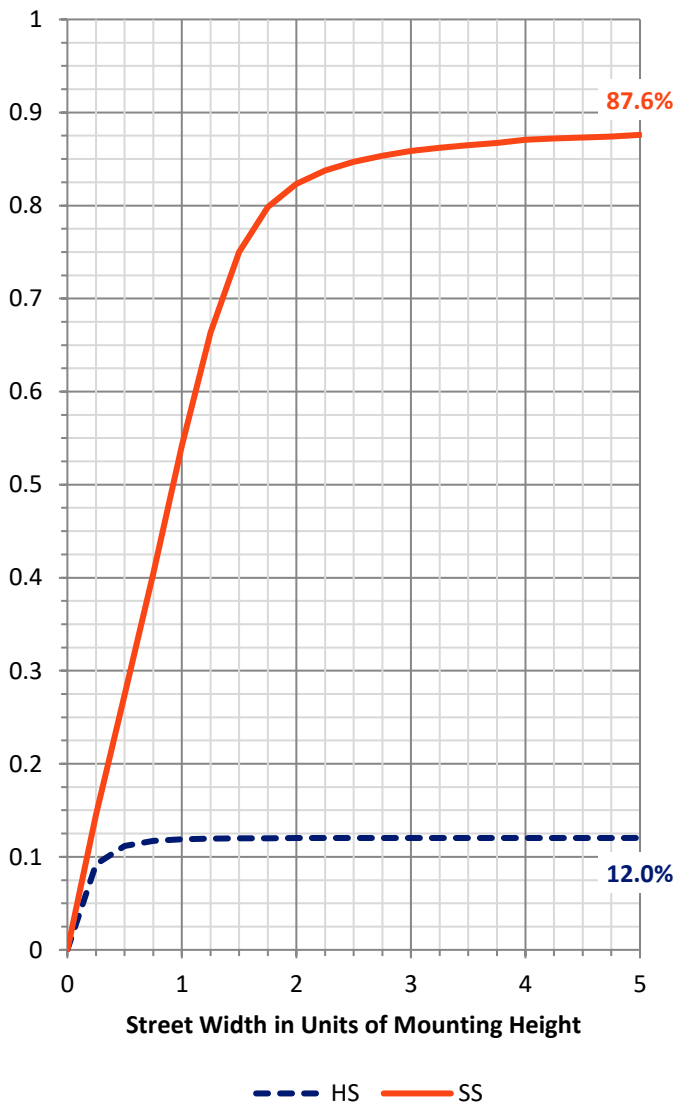
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4919.7	0.0	4919.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	35636.0	0.0	35636.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	40555.6	0.0	40555.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.7	2.1
10°-20°	1830.8	4.5
20°-30°	2548.8	6.3
30°-40°	3612.0	8.9
40°-50°	5692.3	14.0
50°-60°	9236.7	22.8
60°-70°	10315.5	25.4
70°-80°	5808.8	14.3
80°-90°	674.0	1.7
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°	40555.6	100.0
0°-180°	40555.6	100.0



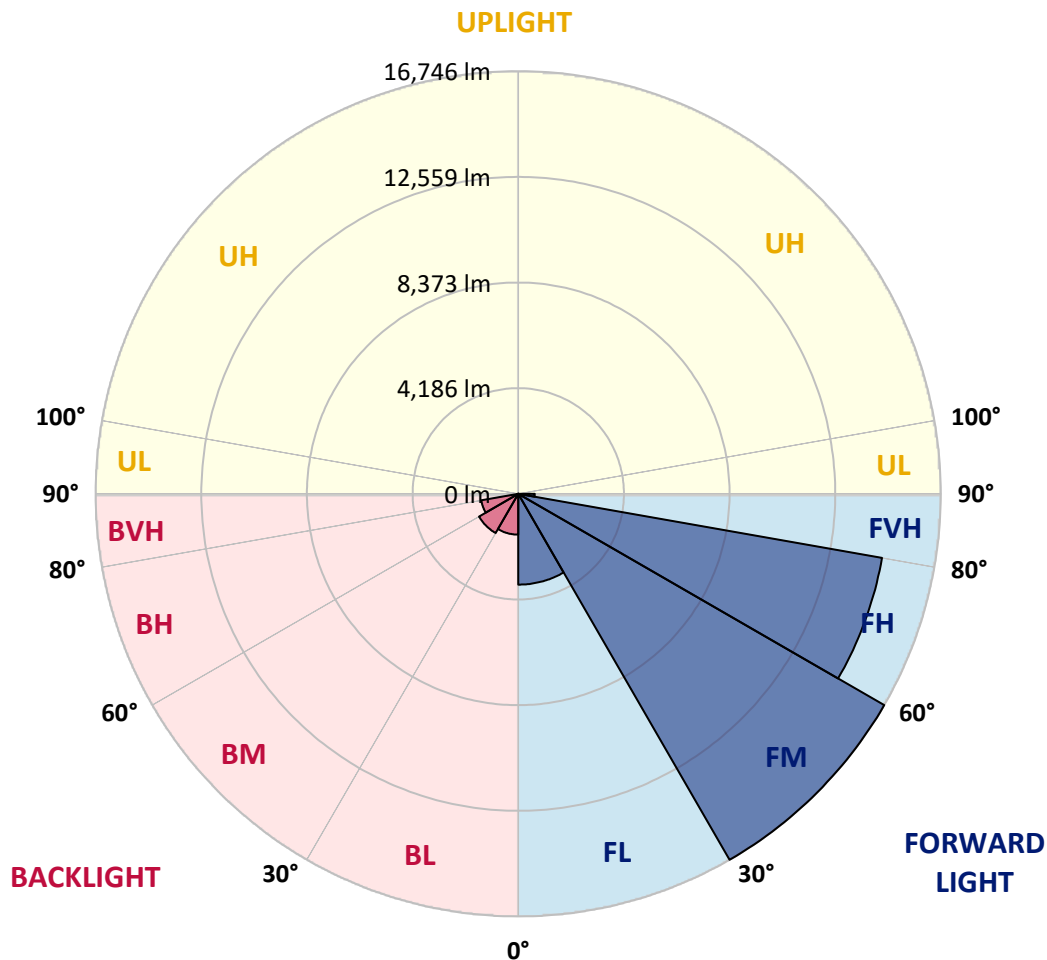
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.9	8.9			
FM (30°-60°)	16745.8	41.3			
FH (60°-80°)	14635.8	36.1			G5
FVH (80°-90°)	655.4	1.6			G4/750
BL (0°-30°)	1617.4	4.0	B3/2500		
BM (30°-60°)	1795.2	4.4	B2/2500		
BH (60°-80°)	1488.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0
2.5°	9847.5	9924.1	9946.0	10022.6	10060.9	10225.0	10318.0	10372.7	10345.4	10405.6
5°	9147.3	9103.5	9218.4	9300.4	9475.5	9760.0	10050.0	10274.3	10378.2	10476.7
7.5°	8397.8	8375.9	8490.8	8676.8	8835.4	9180.1	9645.1	10197.7	10175.8	10416.5
10°	7883.5	7905.4	7943.7	8129.7	8364.9	8715.1	9295.0	9809.2	9924.1	10432.9
12.5°	7413.0	7451.3	7522.4	7713.9	7987.4	8348.5	8912.0	9513.8	9688.9	10339.9
15°	7259.8	7172.3	7314.5	7456.8	7741.3	8064.0	8540.0	9289.5	9366.1	10230.5
17.5°	7134.0	7079.3	7144.9	7259.8	7560.7	7823.3	8271.9	9048.8	9191.0	10186.7
20°	7172.3	7123.0	7150.4	7237.9	7374.7	7620.9	8036.7	8819.0	8972.2	9984.3
22.5°	7281.7	7320.0	7270.8	7292.6	7336.4	7462.2	7910.8	8654.9	8786.2	9946.0
25°	7774.1	7708.4	7642.8	7615.4	7358.3	7413.0	7872.6	8643.9	8736.9	9809.2
27.5°	8288.3	8233.6	8206.3	8047.6	7697.5	7533.4	7878.0	8490.8	8616.6	9754.5
30°	8912.0	8983.1	8873.7	8682.2	8195.3	7790.5	7938.2	8414.2	8589.2	9546.6
32.5°	9568.5	9606.8	9661.5	9519.3	8890.1	8178.9	8118.7	8485.3	8496.2	9546.6
35°	10312.6	10257.8	10400.1	10411.0	9858.5	8868.2	8463.4	8534.5	8649.4	9502.9
37.5°	10952.6	11045.6	11209.8	11472.4	10903.4	9842.1	8999.5	8764.3	8813.5	9705.3
40°	11652.9	11745.9	12117.9	12380.5	12057.8	10936.2	9814.7	9300.4	9338.7	10006.2
42.5°	12424.3	12604.8	13048.0	13507.5	13420.0	12325.8	10865.1	10088.2	10071.8	10755.7
45°	13469.2	13709.9	14191.4	14722.1	14798.6	13917.8	12265.6	11264.5	11319.2	11735.0
47.5°	14924.5	14913.5	15384.0	15974.9	16418.0	15570.0	13939.7	12845.6	12840.1	13283.2
50°	16330.5	16336.0	16461.8	17145.6	18294.5	17862.3	16013.2	14946.4	14886.2	15105.0
52.5°	16981.5	16904.9	16811.9	17638.0	19738.8	20750.9	18639.2	17326.2	17276.9	17145.6
55°	16297.7	16325.0	16319.5	17178.5	20499.3	23798.2	22009.2	19946.7	19864.7	19454.3
57.5°	14103.9	14016.3	14207.8	15548.2	19629.4	25877.1	26829.0	23251.1	23037.7	21675.5
60°	10498.6	10525.9	10684.6	12265.6	17468.4	26314.8	31441.0	27129.9	26210.8	23240.2
62.5°	7330.9	7276.2	7336.4	8222.7	12489.9	24564.1	34559.4	31845.8	30959.5	25018.2
65°	5246.5	5175.4	5416.1	5957.8	7500.5	18781.4	35002.5	38126.4	37333.1	27857.6
67.5°	3774.9	3763.9	4043.0	5027.7	5328.6	10815.9	31720.0	43816.0	43334.6	31227.6
69°	3123.9	3129.3	3397.4	4502.5	5087.9	7385.6	27294.1	44795.3	44707.8	32967.3
70°	2724.5	2746.4	3058.2	4190.7	4989.4	6072.6	23530.1	43832.4	43744.9	33306.5
72.5°	1679.6	1696.0	2106.3	3359.1	4743.2	4956.6	14071.0	35861.4	36162.3	31752.8
75°	804.2	809.7	1105.1	2429.1	4573.6	4699.5	7538.8	26462.5	27097.1	25636.4
77.5°	426.7	426.7	530.7	1291.1	3703.8	4420.4	4475.2	18666.5	19191.7	16210.1
80°	213.4	218.8	322.8	672.9	2297.8	4332.9	3495.9	11133.2	11417.7	6614.3
82.5°	82.1	87.5	153.2	404.8	1192.6	3660.0	3069.1	5476.3	5405.2	1548.3
85°	10.9	10.9	54.7	240.7	508.8	1613.9	2533.0	2286.8	2210.2	339.2
87.5°	0.0	0.0	10.9	71.1	153.2	470.5	979.3	629.1	700.3	93.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10225.0	0°	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0	10225.0
10411.0	2.5°	10383.7	10268.8	10093.7	9924.1	9743.6	9524.7	9284.0	9196.5	9043.3	9032.4
10460.3	5°	10372.7	10186.7	9880.4	9519.3	9005.0	8616.6	8195.3	7889.0	7653.7	7500.5
10487.6	7.5°	10427.4	10203.1	9672.5	8895.6	8233.6	7462.2	6811.2	6362.6	5952.3	5749.9
10575.2	10°	10339.9	10039.0	9262.1	8173.4	7199.6	6121.9	5170.0	4568.2	3955.4	3731.1
10624.4	12.5°	10389.1	9967.9	8819.0	7429.4	6089.1	4688.5	3550.6	2730.0	2155.5	1969.5
10706.5	15°	10422.0	9814.7	8392.3	6537.7	4858.1	3195.0	2057.0	1548.3	1367.7	1334.9
10695.5	17.5°	10296.1	9628.7	7790.5	5656.9	3599.8	1942.2	1367.7	1263.8	1230.9	1209.1
10679.1	20°	10290.7	9519.3	7270.8	4754.2	2401.7	1323.9	1181.7	1143.4	1094.2	1077.8
10772.1	22.5°	10197.7	9289.5	6647.1	3763.9	1531.8	1137.9	1061.3	1001.2	946.5	924.6
10695.5	25°	10170.3	9021.4	6061.7	2828.4	1165.3	1017.6	941.0	853.5	787.8	755.0
10602.5	27.5°	10093.7	8791.7	5470.8	1991.4	1017.6	908.2	809.7	716.7	640.1	590.9
10542.3	30°	9820.2	8550.9	4814.3	1378.7	924.6	804.2	694.8	585.4	508.8	476.0
10405.6	32.5°	9705.3	8326.6	4097.7	1061.3	842.5	711.2	585.4	486.9	426.7	393.9
10356.3	35°	9568.5	7998.4	3402.9	924.6	765.9	618.2	492.4	410.3	361.1	333.7
10394.6	37.5°	9584.9	7735.8	2751.8	837.0	683.9	530.7	421.3	350.1	306.4	279.0
10591.6	40°	9535.7	7527.9	2139.1	760.4	607.3	454.1	355.6	295.4	257.1	229.8
10996.4	42.5°	9760.0	7473.2	1613.9	694.8	530.7	388.4	306.4	251.7	213.4	180.5
11833.4	45°	10137.5	7560.7	1258.3	634.6	454.1	333.7	262.6	207.9	169.6	147.7
13075.3	47.5°	11144.1	7905.4	984.8	585.4	388.4	290.0	218.8	169.6	136.8	114.9
14771.3	50°	12604.8	8676.8	837.0	514.3	328.3	246.2	180.5	131.3	109.4	87.5
17058.1	52.5°	14683.8	9973.4	760.4	454.1	273.5	202.4	142.2	103.9	82.1	65.7
19574.7	55°	16948.7	11592.7	689.3	383.0	229.8	164.1	114.9	82.1	60.2	43.8
21402.0	57.5°	18715.8	12993.3	629.1	317.3	186.0	131.3	87.5	60.2	43.8	27.4
22862.7	60°	20647.0	13978.0	552.6	251.7	153.2	98.5	65.7	43.8	32.8	16.4
24799.4	62.5°	22638.4	15132.4	454.1	197.0	120.4	76.6	49.2	32.8	21.9	5.5
27332.4	65°	25406.6	16035.1	350.1	153.2	93.0	54.7	38.3	27.4	10.9	0.0
28875.1	67.5°	26189.0	15591.9	257.1	120.4	65.7	38.3	27.4	16.4	5.5	0.0
28585.2	69°	25406.6	14043.7	224.3	103.9	54.7	32.8	21.9	10.9	5.5	0.0
27627.8	70°	23978.7	12840.1	197.0	87.5	49.2	32.8	16.4	10.9	5.5	0.0
23803.7	72.5°	20056.1	9847.5	153.2	65.7	38.3	27.4	16.4	10.9	0.0	0.0
18600.9	75°	14711.1	6083.6	114.9	49.2	32.8	21.9	16.4	10.9	0.0	0.0
10575.2	77.5°	7883.5	2221.2	82.1	32.8	21.9	16.4	16.4	10.9	0.0	0.0
3293.5	80°	2161.0	656.5	60.2	21.9	16.4	10.9	10.9	5.5	0.0	0.0
804.2	82.5°	590.9	169.6	38.3	21.9	16.4	10.9	5.5	0.0	0.0	0.0
388.4	85°	317.3	65.7	21.9	16.4	10.9	5.5	0.0	0.0	0.0	0.0
191.5	87.5°	164.1	21.9	16.4	10.9	10.9	5.5	0.0	0.0	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°
10225.0
9119.9
7538.8
5728.0
3742.1
1947.6
1329.4
1198.1
1077.8
919.1
738.6
585.4
465.0
388.4
333.7
279.0
224.3
180.5
142.2
109.4
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