

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: P574734

Luminaire Tested: **EPH-VN-08-735-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574734
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-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

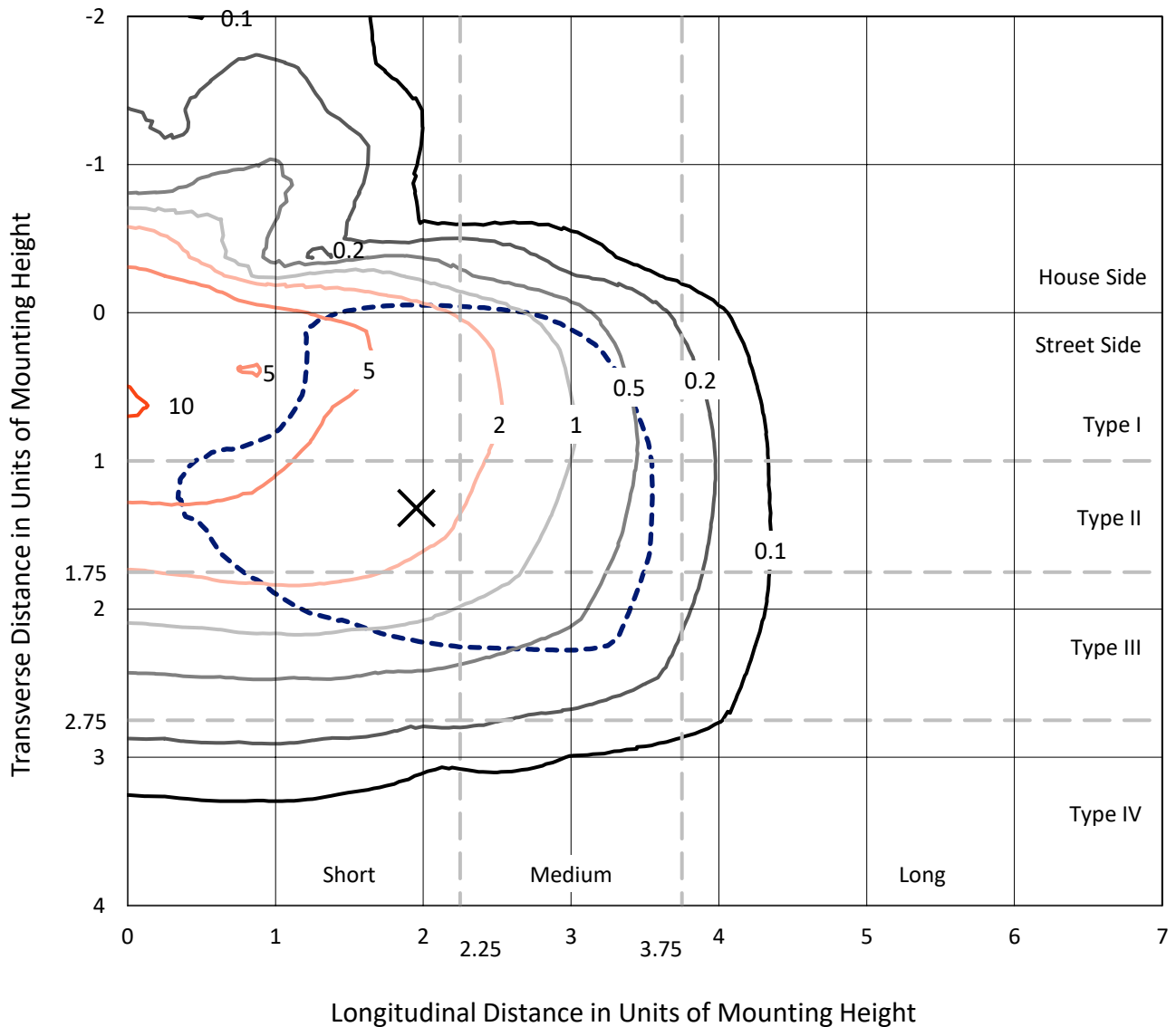
Lumens per Lamp: N/A
Luminaire Lumens: 54010.5 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

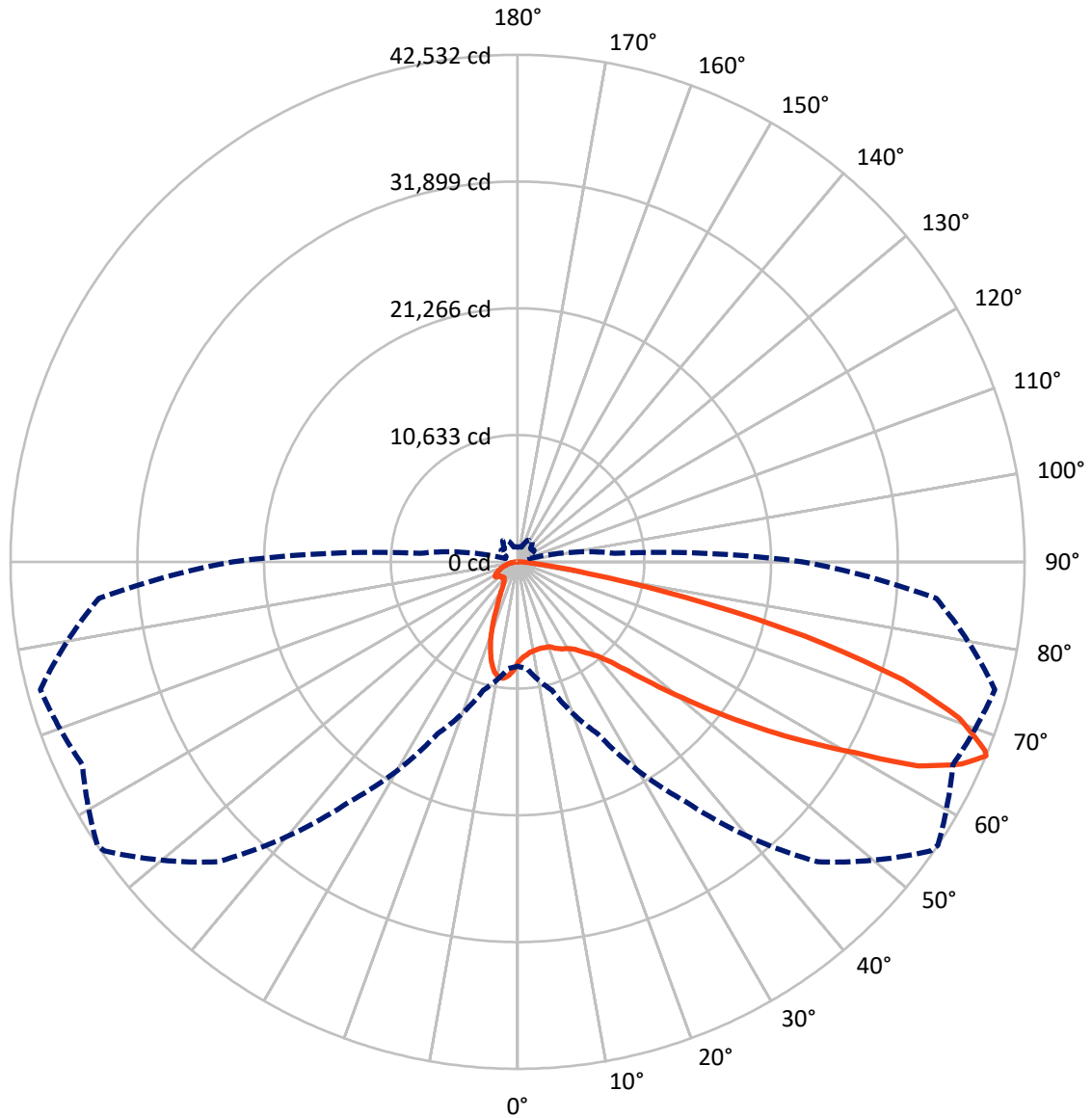
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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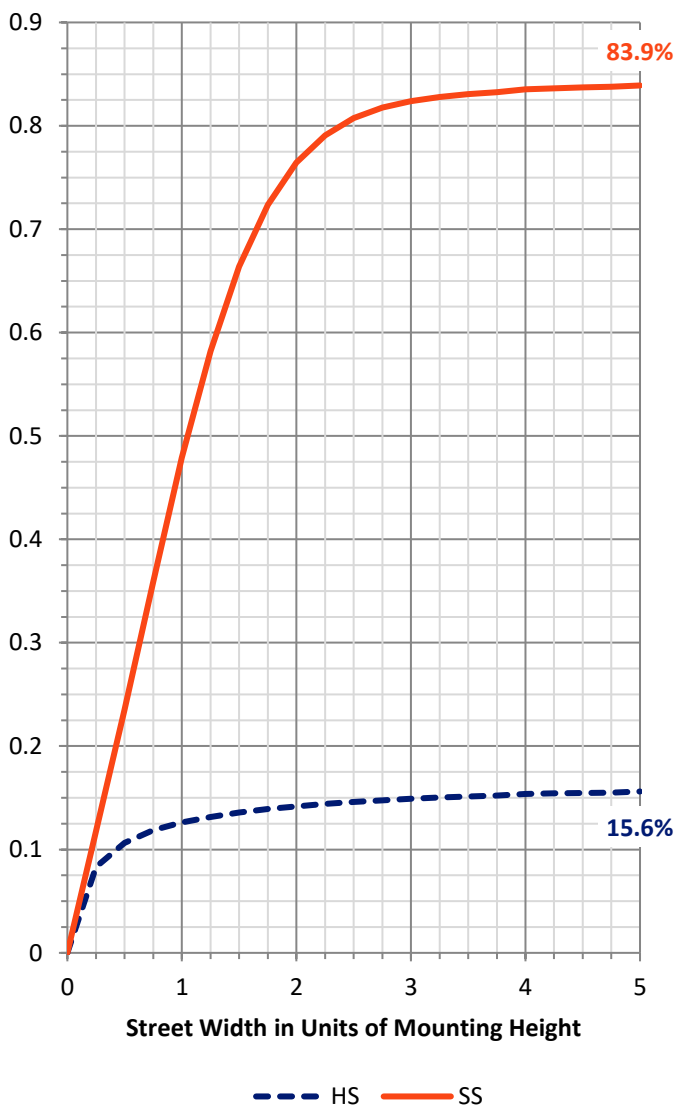
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8550.4	0.0	8550.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	45460.1	0.0	45460.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	54010.5	0.0	54010.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.6	1.5
10°-20°	2208.7	4.1
20°-30°	3463.9	6.4
30°-40°	4944.8	9.2
40°-50°	7463.1	13.8
50°-60°	11880.0	22.0
60°-70°	15187.6	28.1
70°-80°	7405.0	13.7
80°-90°	647.8	1.2
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°	54010.5	100.0
0°-180°	54010.5	100.0

Coefficient of Utilization

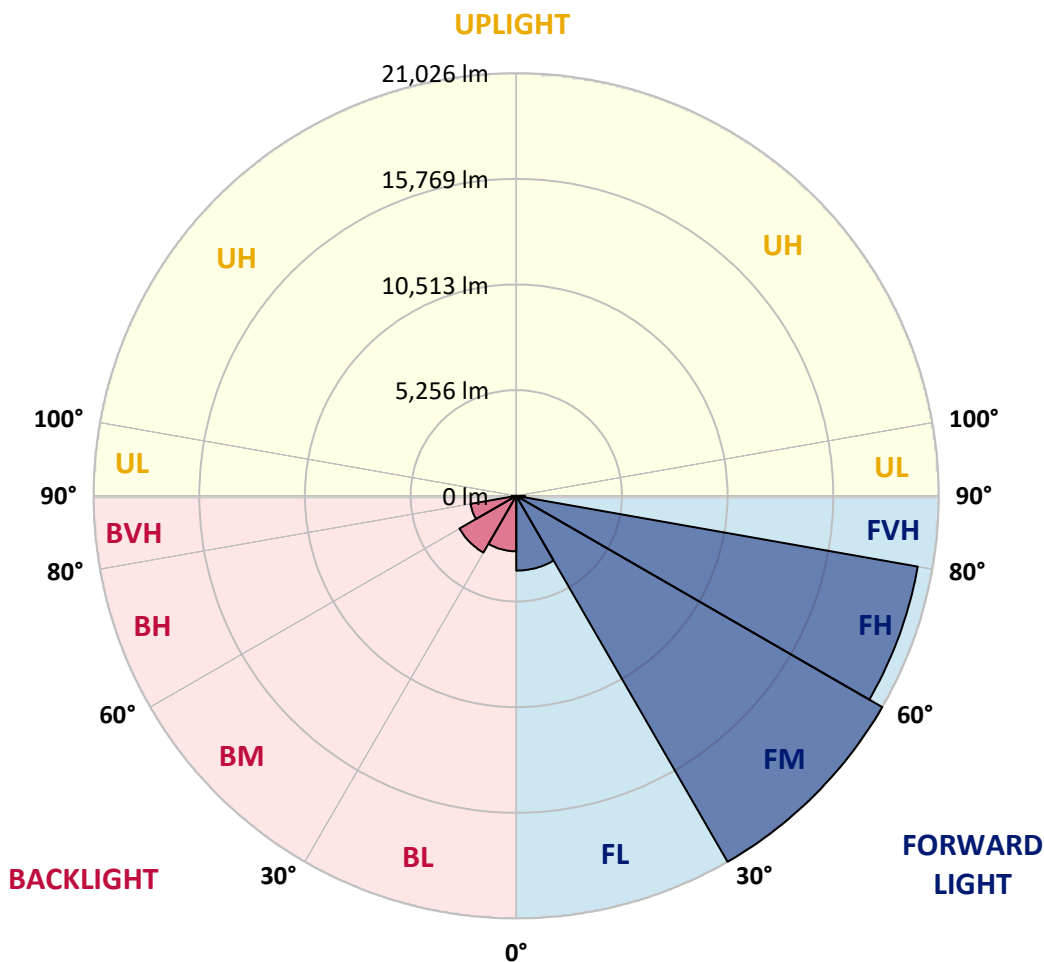


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3721.9	6.9			
FM (30°-60°)	21025.8	38.9			
FH (60°-80°)	20282.1	37.6			G5
FVH (80°-90°)	430.2	0.8			G3/500
BL (0°-30°)	2760.3	5.1	B4/5000		
BM (30°-60°)	3262.1	6.0	B3/5000		
BH (60°-80°)	2310.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	217.6	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9
2.5°	7719.9	7688.3	7726.3	7688.3	7859.3	7960.6	7992.2	8036.6	8194.9	8346.9
5°	7396.9	7257.6	7409.6	7460.3	7472.9	7643.9	7821.3	7852.9	7935.3	8182.2
7.5°	6858.6	7017.0	6960.0	7112.0	7270.3	7441.3	7732.6	7650.3	7954.3	8188.6
10°	6744.6	6757.3	6820.6	6877.6	7017.0	7238.6	7643.9	7593.3	7903.6	8403.9
12.5°	6858.6	6858.6	6839.6	6795.3	6953.6	7169.0	7491.9	7517.3	8004.9	8467.2
15°	7257.6	7333.6	7131.0	7162.6	7099.3	7169.0	7453.9	7510.9	8042.9	8517.9
17.5°	8232.9	8207.6	7966.9	7631.3	7352.6	7308.3	7504.6	7567.9	8004.9	8663.5
20°	9182.9	9132.2	8714.2	8365.9	7814.9	7555.3	7586.9	7593.3	8068.2	8758.5
22.5°	10240.5	10373.5	9917.5	9208.2	8524.2	7878.3	7751.6	7852.9	8213.9	8809.2
25°	11899.7	11614.7	11222.1	10291.1	9189.2	8378.6	8023.9	8074.6	8353.2	8935.9
27.5°	13096.6	12982.7	12368.4	11614.7	10120.1	8771.2	8169.6	8264.6	8606.5	8929.5
30°	14249.3	14249.3	13875.6	12748.3	11101.8	9429.8	8479.9	8435.6	8486.2	8916.9
32.5°	15598.2	15414.5	14876.2	14128.9	12336.7	10031.5	8726.9	8739.5	8739.5	9151.2
35°	16307.5	16605.1	16244.2	15028.2	13280.3	11032.1	9322.2	9227.2	9157.5	9410.8
37.5°	17346.1	17523.4	17143.4	16427.8	14451.9	11842.7	9847.8	9771.8	9366.5	9613.5
40°	17973.1	17941.4	17928.7	17599.4	16003.5	12799.0	10620.4	10424.1	9879.5	10329.1
42.5°	18327.7	18264.4	19043.3	18840.7	17466.4	14204.9	11589.4	11481.7	10880.1	11602.1
45°	18726.7	19195.3	19835.0	20404.9	19170.0	16180.8	13229.6	13077.6	12539.3	13457.6
47.5°	19075.0	19651.3	20468.3	21076.2	20708.9	18327.7	15256.2	15294.2	14939.6	15883.2
50°	19657.6	19714.6	20822.9	22051.5	22336.5	20309.9	17979.4	17916.1	17757.7	19081.3
52.5°	19480.3	19651.3	21050.9	22621.5	23090.1	22406.2	20905.2	21095.2	20886.2	22551.8
55°	16592.5	17105.4	20911.6	23223.1	24876.0	24774.7	24667.0	24540.4	24527.7	26452.9
57.5°	15281.5	15699.5	18422.7	23888.1	26788.6	27535.9	28232.5	28371.8	28365.5	30689.7
60°	14420.2	14850.9	17415.8	23527.1	28416.2	31152.0	32488.3	32507.3	32469.3	35217.8
62.5°	12735.7	13153.6	15674.2	21551.2	28865.8	34489.5	37466.0	37713.0	35971.5	39119.0
65°	10709.1	11051.1	13274.0	18530.4	27668.9	36611.1	41208.8	40917.5	38922.6	41348.2
67°	8758.5	8986.5	11152.4	15908.5	24540.4	35591.5	42291.8	42532.4	40284.2	41443.2
67.5°	8201.2	8410.2	10455.8	15015.5	23349.8	34818.8	42329.8	42291.8	40309.6	41462.2
70°	5693.4	5782.0	7124.6	10329.1	17200.4	29416.8	39239.3	39327.9	38618.6	39213.9
72.5°	3774.5	3907.5	4762.4	6510.3	10139.1	21405.5	32798.6	33748.6	33298.9	32152.7
75°	2431.9	2507.9	3115.8	3875.8	4990.4	12191.0	24230.1	24863.4	23831.1	19885.6
77.5°	1361.6	1443.9	1880.9	2355.9	2431.9	5072.7	13609.6	14394.9	12197.4	8448.2
80°	848.6	956.3	1418.6	1399.6	1158.9	1861.9	5611.0	6010.0	4876.4	2906.8
82.5°	639.6	722.0	1095.6	981.6	652.3	829.6	2102.6	2254.5	1785.9	1120.9
85°	437.0	551.0	791.6	608.0	342.0	399.0	836.0	899.3	817.0	544.6
87.5°	158.3	234.3	411.6	304.0	152.0	120.3	272.3	304.0	291.3	247.0
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°
8403.9	0°	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9	8403.9
8479.9	2.5°	8600.2	8688.9	8733.2	8992.9	9100.5	9081.5	9106.9	9144.9	9182.9	9233.5
8587.6	5°	8669.9	8942.2	9087.9	9391.8	9594.5	9505.8	9619.8	9588.2	9543.8	9537.5
8783.9	7.5°	8897.9	9246.2	9683.2	9765.5	9854.2	9632.5	9442.5	9182.9	9119.5	8897.9
8948.5	10°	9303.2	9588.2	10120.1	10151.8	9759.2	9189.2	8764.9	8226.6	8220.2	7897.3
9201.9	12.5°	9689.5	10012.5	10443.1	10259.5	9322.2	8543.2	7852.9	7264.0	7017.0	6852.3
9353.8	15°	9930.1	10462.1	10690.1	9898.5	8555.9	7504.6	6611.7	5978.4	5725.0	5604.7
9543.8	17.5°	10151.8	10892.8	10791.4	9265.2	7612.3	6434.3	5370.4	4819.4	4749.8	4661.1
9847.8	20°	10455.8	11051.1	10430.5	8441.9	6542.0	5053.7	4376.1	4110.1	4173.4	4211.4
9879.5	22.5°	10740.8	11133.4	9974.5	7542.6	5167.7	4002.5	3666.8	3723.8	3818.8	3945.5
9955.5	25°	10867.4	11266.4	9360.2	6301.3	3932.8	3369.2	3293.2	3388.2	3546.5	3552.8
10063.1	27.5°	10949.8	11171.4	8619.2	5091.7	3109.5	2944.8	3058.8	3128.5	3147.5	3223.5
10291.1	30°	11095.4	10975.1	7681.9	3641.5	2609.2	2615.5	2761.2	2761.2	2761.2	2818.2
10519.1	32.5°	11348.7	10842.1	6586.3	2659.9	2248.2	2450.9	2412.9	2400.2	2374.9	2305.2
10810.4	35°	11507.1	10481.1	5199.4	1969.6	2020.2	2248.2	2235.5	2039.2	1709.9	1545.3
11551.4	37.5°	11836.4	10297.5	3825.1	1519.9	1887.2	2146.9	2077.2	1602.2	1241.3	1082.9
12469.7	40°	12545.7	10177.1	2647.2	1329.9	1798.6	2096.2	1855.6	1367.9	950.0	671.3
13888.3	42.5°	13413.3	10183.5	1798.6	1253.9	1804.9	2203.9	1785.9	1171.6	671.3	538.3
15781.8	45°	14578.6	10088.5	1234.9	1253.9	1918.9	2381.2	1830.2	1063.9	652.3	684.0
18156.7	47.5°	15832.5	10170.8	918.3	1139.9	1937.9	2387.5	1671.9	1044.9	627.0	791.6
20740.6	50°	17295.4	10253.1	760.0	1051.3	1944.2	2311.5	1538.9	1019.6	652.3	836.0
23704.4	52.5°	18802.7	10512.8	646.0	994.3	2020.2	2279.9	1538.9	1057.6	652.3	728.3
27478.9	55°	21050.9	11177.7	931.0	1241.3	2298.9	2488.9	1893.6	1481.9	912.0	937.3
31095.0	57.5°	23533.4	11861.7	1038.6	1304.6	2362.2	2241.9	2039.2	1633.9	962.6	968.9
33906.9	60°	25167.4	11887.0	1032.3	1272.9	2210.2	1937.9	1994.9	1722.6	981.6	829.6
35648.5	62.5°	25819.6	11114.4	1076.6	1272.9	2058.2	1811.2	2045.6	1855.6	1013.3	1038.6
36142.4	65°	25078.7	9518.5	1038.6	1139.9	1811.2	1621.2	2058.2	1880.9	1108.3	1044.9
35255.8	67°	23919.7	8201.2	1057.6	1082.9	1684.6	1538.9	2165.9	1975.9	1285.6	1253.9
34793.5	67.5°	23590.4	7852.9	1051.3	1051.3	1640.2	1513.6	2191.2	1975.9	1310.9	1298.3
30708.7	70°	20791.2	6364.7	1076.6	1038.6	1450.3	1437.6	2330.5	2083.6	1507.3	1519.9
22558.2	72.5°	15826.2	4825.7	1070.3	1038.6	1260.3	1374.3	2349.5	2153.2	1640.2	1519.9
12634.3	75°	8992.9	2887.8	943.6	905.6	994.3	1196.9	2197.6	2051.9	1595.9	1361.6
5047.4	77.5°	3717.5	1488.3	867.6	817.0	823.3	975.3	1830.2	1912.6	1519.9	1158.9
1684.6	80°	1386.9	893.0	696.6	652.3	633.3	715.6	1304.6	1526.3	1298.3	950.0
741.0	82.5°	722.0	557.3	475.0	475.0	430.6	456.0	703.0	1013.3	981.6	652.3
297.7	85°	367.3	316.7	272.3	266.0	240.7	215.3	354.6	601.6	563.6	361.0
133.0	87.5°	196.3	177.3	114.0	107.7	88.7	57.0	63.3	120.3	196.3	158.3
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°
8403.9
9284.2
9594.5
8973.9
7884.6
6814.3
5579.4
4705.4
4167.1
3875.8
3616.1
3293.2
2881.5
2267.2
1621.2
1076.6
652.3
525.6
696.6
880.3
968.9
747.3
987.9
937.3
855.0
1051.3
1025.9
1234.9
1272.9
1405.9
1348.9
1215.9
1095.6
867.6
513.0
297.7
114.0
0.0

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