

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: P638852

Luminaire Tested: **EPH-VN-03-E-750-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638852
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-750-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20335.6 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

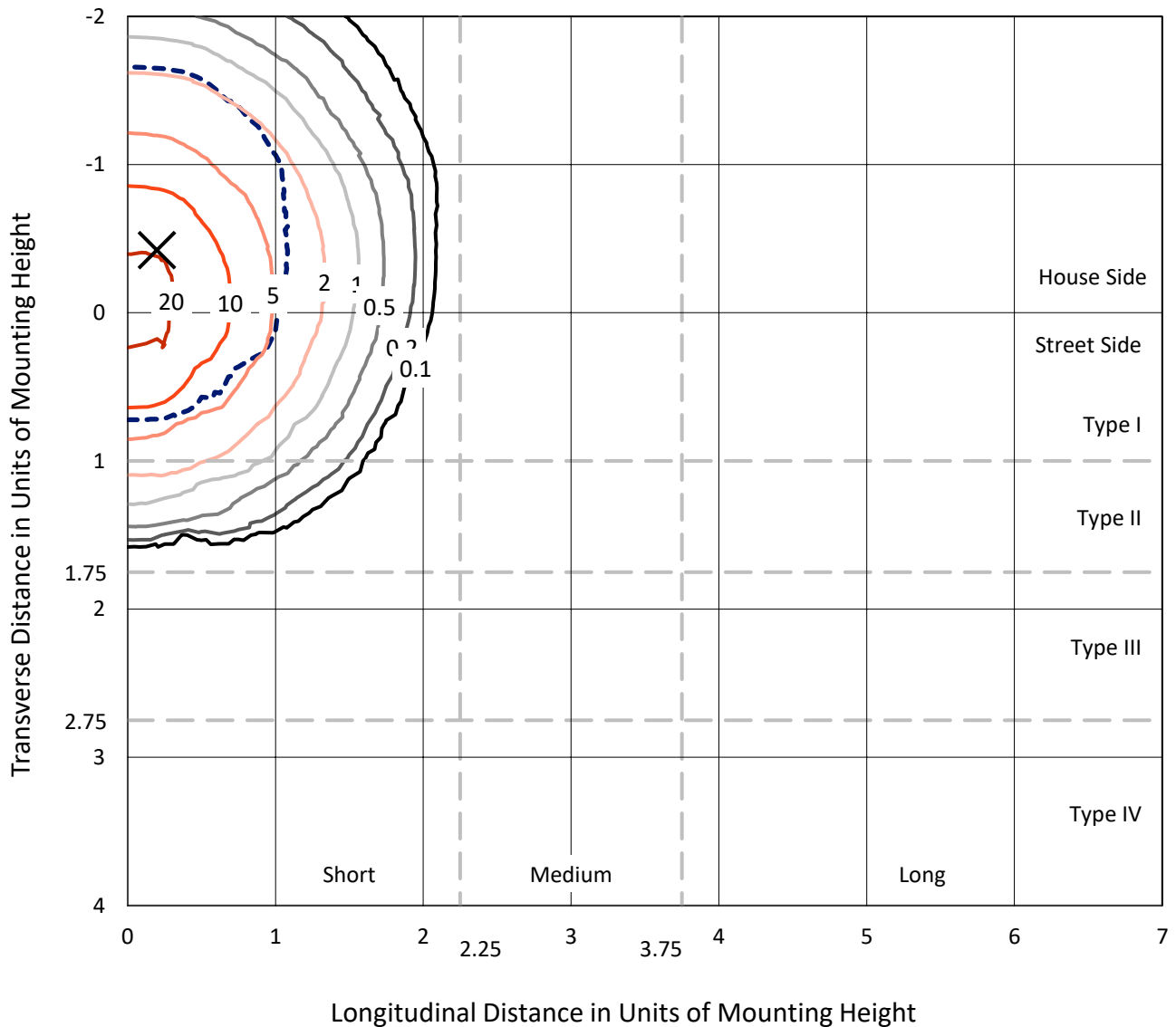
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

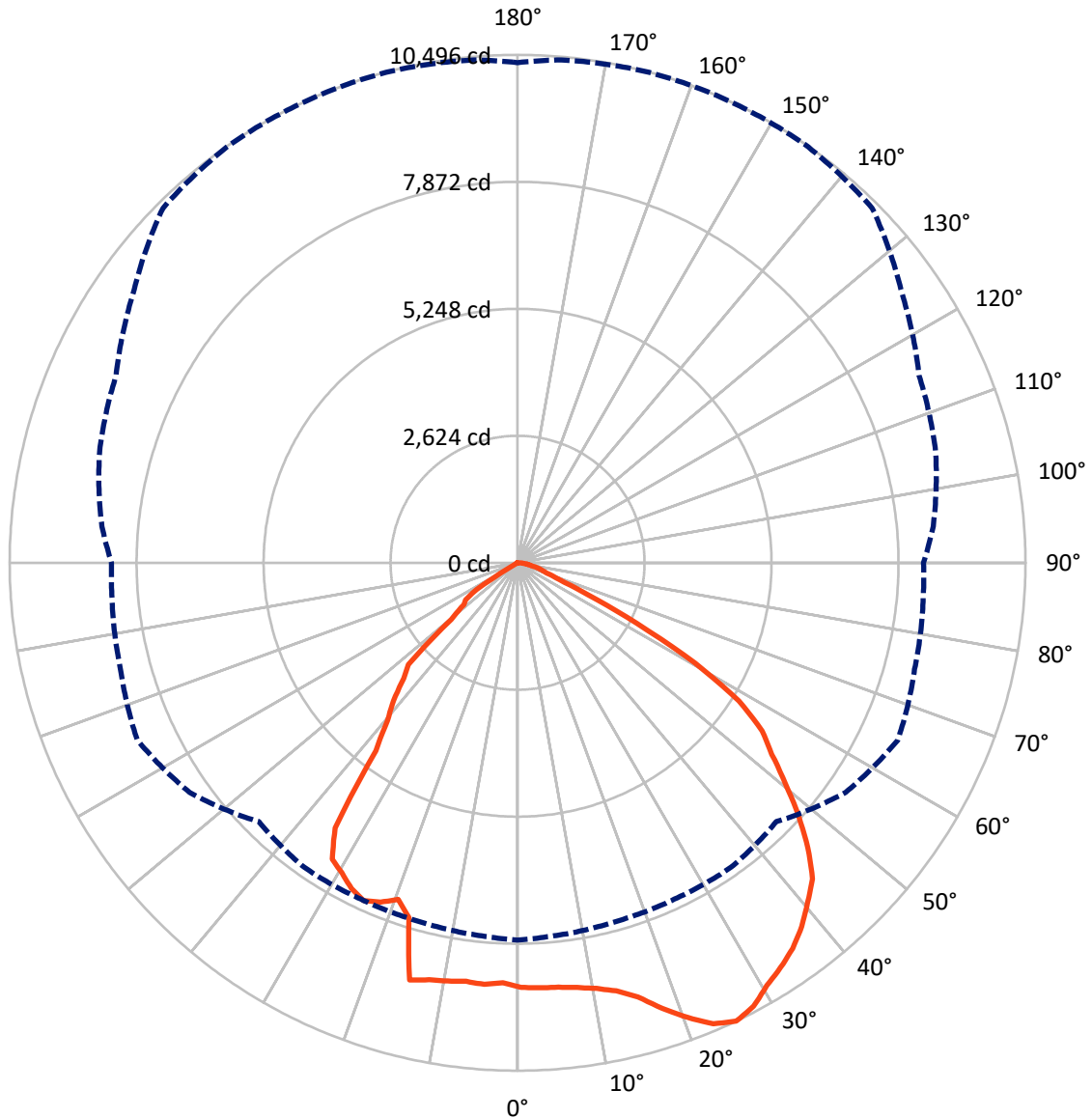
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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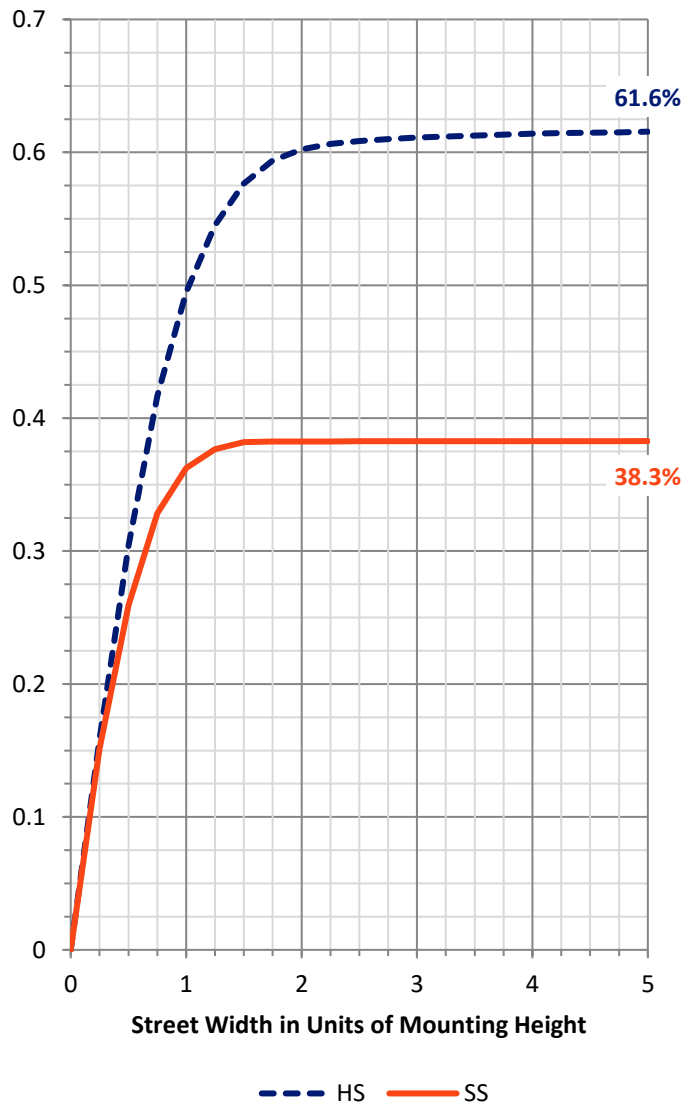
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12589.8	0.0	12589.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7745.8	0.0	7745.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	20335.6	0.0	20335.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.8	4.1
10°-20°	2570.4	12.6
20°-30°	4063.6	20.0
30°-40°	4590.2	22.6
40°-50°	4298.8	21.1
50°-60°	2963.7	14.6
60°-70°	796.3	3.9
70°-80°	165.9	0.8
80°-90°	44.9	0.2
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°	20335.6	100.0
0°-180°	20335.6	100.0

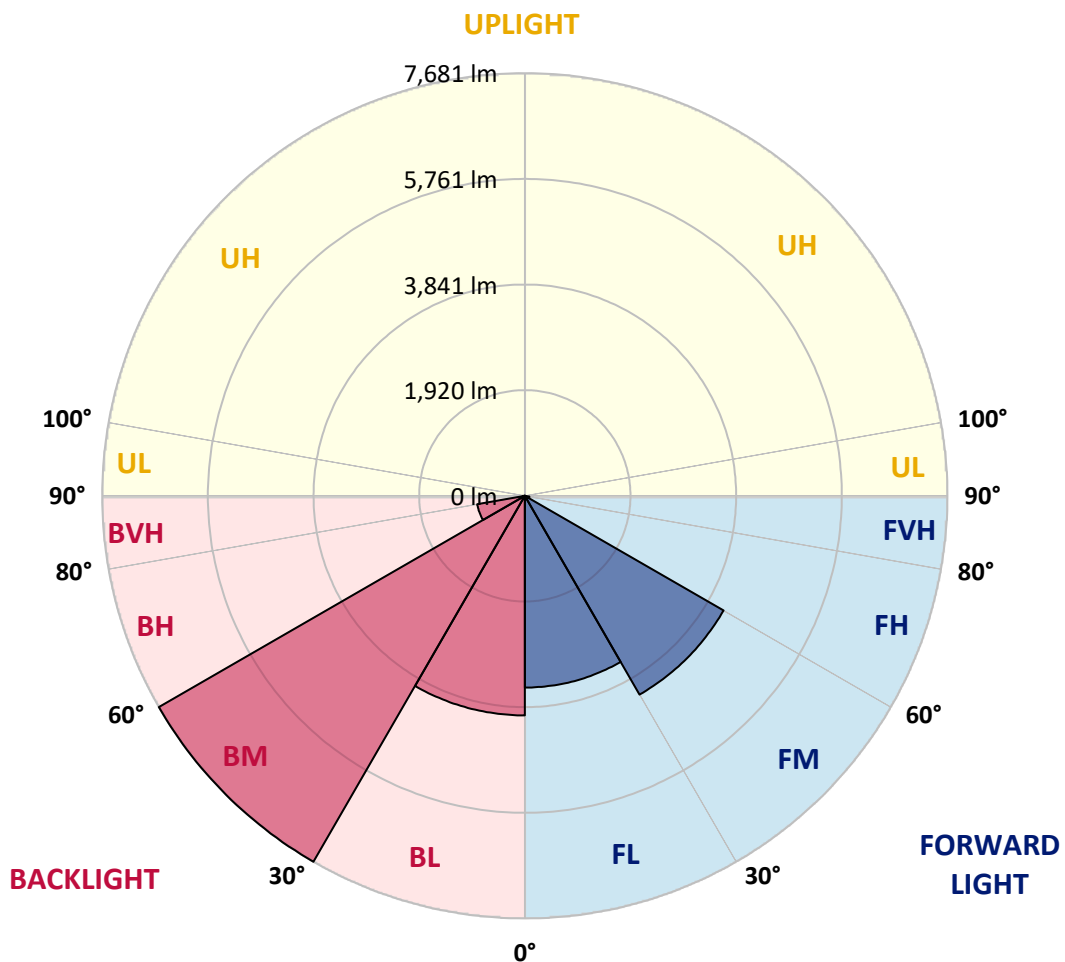


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3484.9	17.1			
FM (30°-60°)	4171.3	20.5			
FH (60°-80°)	83.6	0.4			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	3990.9	19.6	B4/5000		
BM (30°-60°)	7681.5	37.8	B4/8500		
BH (60°-80°)	878.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5
2.5°	8813.3	8756.5	8702.7	8684.8	8759.5	8840.2	8789.4	8792.4	8774.5	8807.3
5°	8879.1	8801.3	8765.5	8738.6	8750.5	8834.2	8762.5	8789.4	8759.5	8798.4
7.5°	8855.1	8801.3	8765.5	8714.7	8753.5	8852.2	8783.4	8786.4	8771.5	8807.3
10°	8840.2	8801.3	8756.5	8762.5	8807.3	8891.0	8837.2	8867.1	8846.2	8867.1
12.5°	8876.1	8834.2	8810.3	8810.3	8849.2	8944.8	8917.9	8944.8	8935.8	8953.8
15°	8538.4	8577.2	8804.3	8905.9	8983.7	9079.3	9067.3	9094.2	9100.2	9127.1
17.5°	7202.5	7163.6	7145.7	7668.7	9058.4	9354.2	9345.3	9342.3	9312.4	9291.5
20°	7378.8	7363.8	7342.9	7381.8	7537.2	9497.7	9557.5	9189.9	9082.3	9073.3
22.5°	7659.7	7635.8	7558.1	7561.1	7608.9	8257.4	9261.6	8926.9	8891.0	8870.1
25°	7797.2	7749.4	7686.6	7668.7	7683.6	7564.1	8272.4	8669.9	8493.5	8412.8
27.5°	7555.1	7558.1	7507.3	7555.1	7498.3	6960.4	6658.5	8167.8	8161.8	8125.9
30°	7372.8	7363.8	7304.1	7363.8	6972.3	6371.6	6243.1	7617.9	7555.1	7507.3
32.5°	6813.9	6819.9	6993.3	7226.4	6583.8	6108.6	5720.1	6805.0	7399.7	7372.8
35°	4874.4	4886.3	5502.0	6652.6	5995.1	5585.6	5555.8	5881.5	7154.6	7166.6
37.5°	4692.1	4692.1	4677.1	4865.4	5531.8	5373.5	5433.2	5400.4	6553.9	6583.8
40°	4560.6	4533.7	4512.7	4216.9	3846.3	5224.0	5265.9	5116.4	6195.3	6201.3
42.5°	4402.2	4372.3	4378.3	3831.4	3442.8	4853.4	4736.9	4536.7	5597.6	5603.6
45°	4112.3	4163.1	4198.9	3353.2	3323.3	3466.7	4369.3	4243.8	5194.1	5304.7
47.5°	2092.0	2136.8	3278.5	3084.2	3152.9	3081.2	3690.9	3693.9	4321.5	4689.1
50°	1897.7	1885.8	1888.8	1799.1	2910.9	2492.5	2668.8	3386.1	3460.8	3986.8
52.5°	1769.2	1766.2	1583.9	1407.6	1829.0	2193.6	1936.6	2450.6	2573.2	3377.1
55°	1309.0	1404.6	1249.2	1323.9	1144.6	1757.3	1748.3	2211.5	2253.4	2707.6
57.5°	12.0	14.9	35.9	1007.1	792.0	878.6	1207.4	1509.2	1583.9	2109.9
60°	3.0	6.0	14.9	29.9	514.0	540.9	806.9	872.7	983.2	1258.2
62.5°	0.0	0.0	6.0	14.9	26.9	221.2	257.0	280.9	433.3	642.5
65°	0.0	0.0	3.0	9.0	14.9	35.9	62.8	131.5	188.3	233.1
67.5°	0.0	0.0	3.0	6.0	12.0	17.9	35.9	50.8	80.7	137.5
70°	0.0	0.0	3.0	6.0	9.0	14.9	23.9	35.9	47.8	68.7
72.5°	0.0	0.0	3.0	6.0	6.0	17.9	17.9	26.9	35.9	44.8
75°	0.0	0.0	3.0	3.0	6.0	12.0	17.9	20.9	23.9	35.9
77.5°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	23.9	20.9	20.9
80°	0.0	0.0	3.0	9.0	9.0	14.9	17.9	23.9	14.9	14.9
82.5°	0.0	0.0	3.0	12.0	9.0	29.9	29.9	32.9	12.0	12.0
85°	0.0	0.0	9.0	6.0	17.9	29.9	26.9	17.9	14.9	9.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	20.9	17.9	6.0	6.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8774.5	0°	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5	8774.5
8720.7	2.5°	8840.2	8801.3	8882.0	8873.1	8834.2	8816.3	8795.4	8777.4	8645.9
8726.6	5°	8843.2	8783.4	8882.0	8864.1	8858.1	8828.2	8810.3	8837.2	8717.7
8750.5	7.5°	8843.2	8783.4	8891.0	8897.0	8888.0	8864.1	8861.1	8879.1	8780.4
8792.4	10°	8903.0	8879.1	8968.7	8977.7	8965.7	8959.7	8944.8	8932.8	8828.2
8935.8	12.5°	9028.5	8980.7	9082.3	9109.2	9100.2	9115.1	9079.3	9097.2	8989.6
9082.3	15°	9180.9	9183.9	9261.6	9321.4	9315.4	9363.2	9309.4	9357.2	9279.5
9249.6	17.5°	9414.0	9446.9	9557.5	9647.1	9680.0	9715.9	9680.0	9694.9	9584.4
9064.3	20°	9168.9	9291.5	9823.4	9987.8	10056.5	10089.4	10029.7	10047.6	9937.0
8837.2	22.5°	8947.8	9106.2	9578.4	10092.4	10304.6	10370.3	10349.4	10346.4	10304.6
8388.9	25°	8622.0	8941.8	9154.0	9697.9	10364.4	10483.9	10495.9	10492.9	10430.1
8114.0	27.5°	8221.6	8293.3	8843.2	9174.9	9946.0	10400.2	10382.3	10295.6	10212.0
7543.2	30°	7710.5	8036.3	8284.3	8813.3	9405.0	10143.2	10143.2	10077.5	9990.8
7339.9	32.5°	7450.5	7871.9	8102.0	8293.3	8798.4	9856.3	9975.9	9907.1	9838.4
7181.5	35°	7313.0	7375.8	7913.7	8087.1	8514.4	9303.4	9787.6	9718.8	9668.0
6760.2	37.5°	7011.2	7157.6	7408.7	7871.9	8003.4	8852.2	9536.5	9500.7	9440.9
6213.2	40°	6338.8	6730.3	7115.8	7555.1	7692.6	8272.4	9231.7	9246.6	9166.0
5630.5	42.5°	5941.3	6207.3	6811.0	7106.8	7477.4	7898.8	8935.8	8959.7	8903.0
5334.6	45°	5475.1	5770.9	6195.3	6733.3	7238.3	7384.8	8412.8	8663.9	8616.1
4745.9	47.5°	5047.7	5286.8	5806.8	6350.7	6909.6	6888.7	7812.1	8284.3	8218.6
4294.6	50°	4441.0	4859.4	5104.5	5603.6	6437.4	6494.2	7172.6	7839.0	7785.2
3649.0	52.5°	3744.7	4270.7	4739.9	5197.1	5959.2	6093.7	6577.8	7384.8	7348.9
2788.3	55°	3272.5	3655.0	4184.0	4551.6	5379.4	5738.1	6132.6	6951.4	6933.5
2292.2	57.5°	2328.1	3066.3	3502.6	4016.6	4453.0	5101.5	5394.4	6069.8	5902.4
1270.1	60°	1578.0	1924.6	2456.6	3009.5	3302.4	3950.9	4222.9	4763.8	4719.0
759.1	62.5°	833.8	1153.6	1533.1	1811.1	2023.3	2653.9	2767.4	3350.2	3335.2
304.8	65°	367.6	487.1	830.8	974.3	1192.4	1485.3	1583.9	1793.1	1742.3
149.4	67.5°	191.3	289.9	469.2	576.8	726.2	836.8	917.5	983.2	1025.1
98.6	70°	116.6	212.2	289.9	400.5	499.1	588.7	651.5	741.2	795.0
50.8	72.5°	86.7	134.5	200.2	307.8	361.6	466.2	529.0	594.7	642.5
41.8	75°	47.8	89.7	161.4	242.1	289.9	379.5	436.3	481.2	496.1
23.9	77.5°	29.9	68.7	134.5	188.3	227.1	307.8	292.9	334.7	370.6
17.9	80°	20.9	50.8	104.6	155.4	158.4	197.2	233.1	269.0	292.9
12.0	82.5°	14.9	41.8	77.7	119.5	104.6	152.4	182.3	209.2	152.4
9.0	85°	12.0	29.9	38.9	71.7	59.8	107.6	92.6	89.7	59.8
6.0	87.5°	9.0	14.9	26.9	32.9	23.9	23.9	29.9	35.9	29.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8774.5
8556.3
8616.1
8666.9
8741.6
8894.0
9151.0
9488.7
9859.3
10170.1
10334.5
10146.2
9957.9
9781.6
9596.3
9381.1
9148.0
8897.0
8622.0
8266.4
7794.2
7372.8
6954.4
5884.5
4721.9
3338.2
1721.4
1025.1
797.9
651.5
487.1
376.6
295.9
110.6
59.8
29.9
0.0

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