

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: P638836

Luminaire Tested: **EPH-VN-06-E-730-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638836
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-730-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35512.3 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

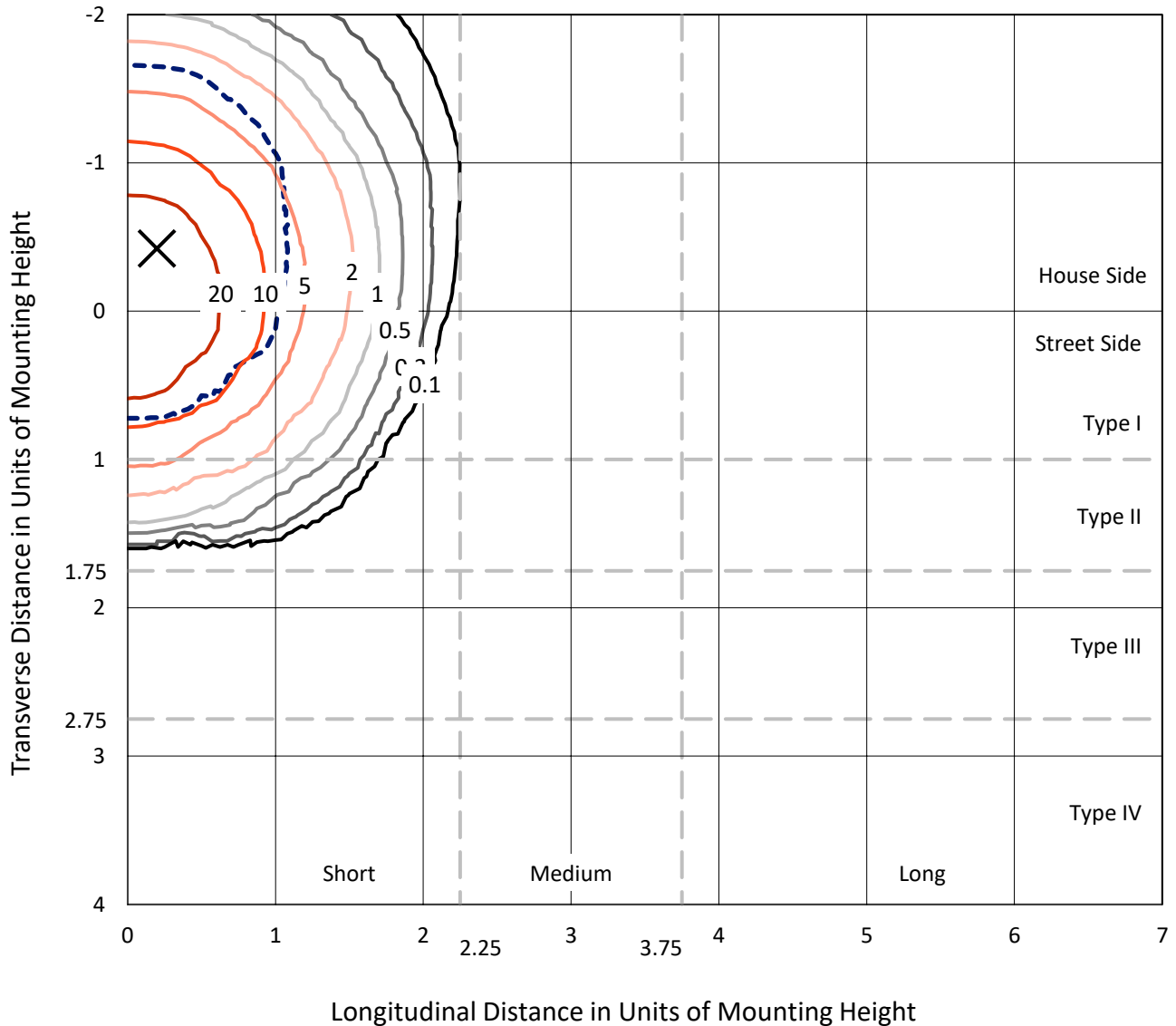
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

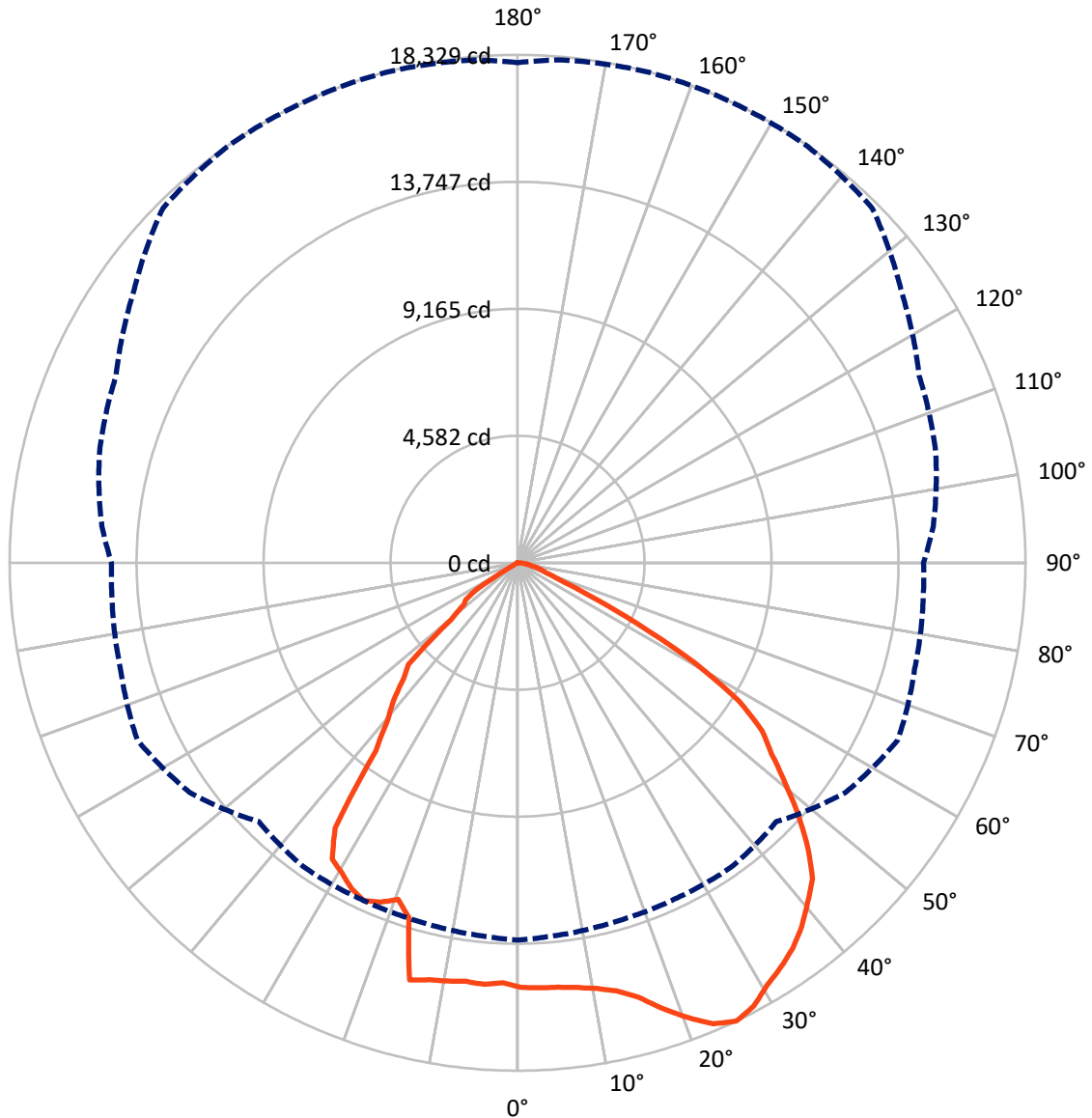
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 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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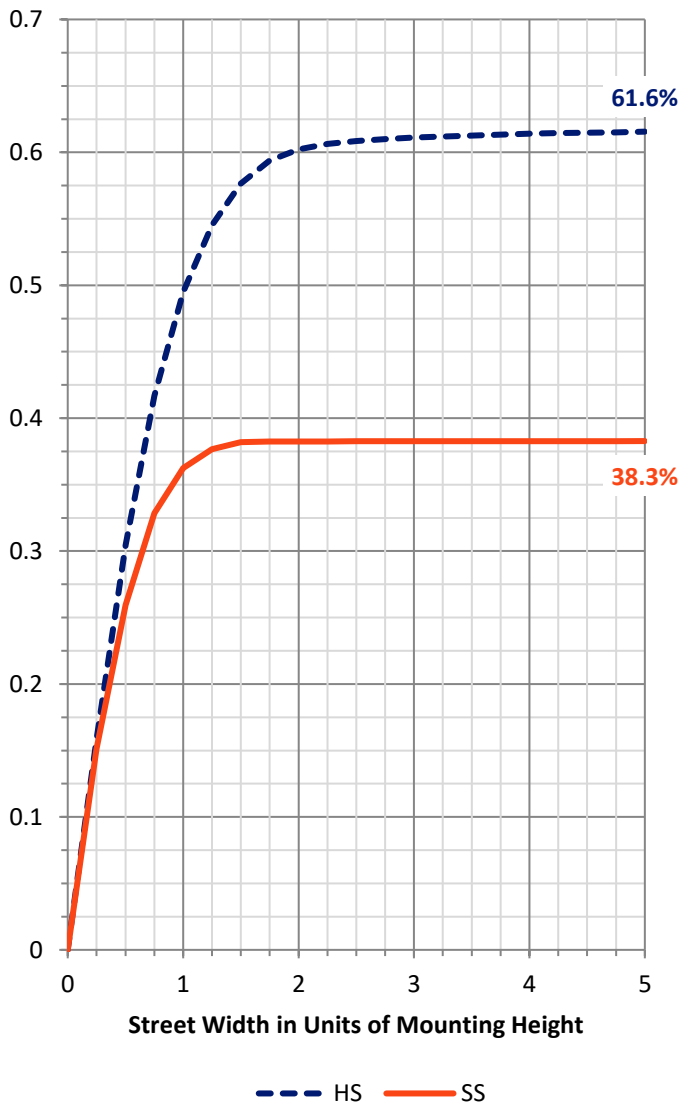
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21985.8	0.0	21985.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13526.5	0.0	13526.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	35512.3	0.0	35512.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1470.0	4.1
10°-20°	4488.7	12.6
20°-30°	7096.3	20.0
30°-40°	8015.9	22.6
40°-50°	7507.1	21.1
50°-60°	5175.6	14.6
60°-70°	1390.5	3.9
70°-80°	289.8	0.8
80°-90°	78.4	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°	35512.3	100.0
0°-180°	35512.3	100.0

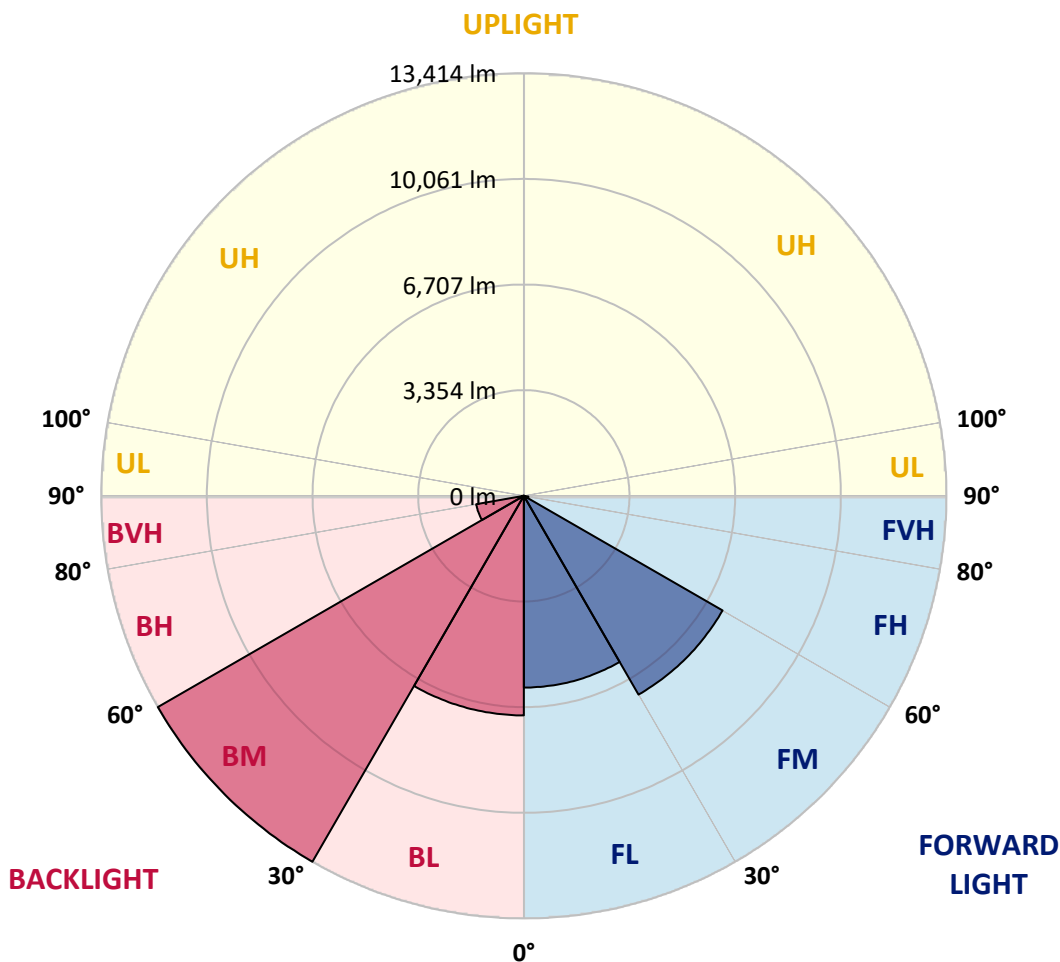


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6085.7	17.1			
FM (30°-60°)	7284.4	20.5			
FH (60°-80°)	146.0	0.4			G0/660
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	6969.4	19.6	B5		
BM (30°-60°)	13414.2	37.8	B5		
BH (60°-80°)	1534.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	67.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9
2.5°	15390.8	15291.6	15197.7	15166.4	15296.8	15437.7	15349.0	15354.2	15322.9	15380.3
5°	15505.6	15369.9	15307.3	15260.3	15281.2	15427.3	15302.1	15349.0	15296.8	15364.7
7.5°	15463.8	15369.9	15307.3	15218.5	15286.4	15458.6	15338.6	15343.8	15317.7	15380.3
10°	15437.7	15369.9	15291.6	15302.1	15380.3	15526.5	15432.5	15484.7	15448.2	15484.7
12.5°	15500.4	15427.3	15385.6	15385.6	15453.4	15620.4	15573.4	15620.4	15604.8	15636.1
15°	14910.6	14978.5	15375.1	15552.6	15688.3	15855.3	15834.4	15881.4	15891.8	15938.8
17.5°	12577.7	12509.9	12478.6	13391.9	15818.7	16335.4	16319.8	16314.5	16262.3	16225.8
20°	12885.7	12859.6	12823.0	12890.9	13162.3	16585.9	16690.3	16048.4	15860.5	15844.8
22.5°	13376.2	13334.5	13198.8	13204.0	13287.5	14420.0	16173.6	15589.1	15526.5	15489.9
25°	13616.3	13532.8	13423.2	13391.9	13418.0	13209.2	14446.1	15140.3	14832.3	14691.4
27.5°	13193.6	13198.8	13110.1	13193.6	13094.4	12155.0	11627.9	14263.5	14253.0	14190.4
30°	12875.2	12859.6	12755.2	12859.6	12175.9	11126.9	10902.5	13303.2	13193.6	13110.1
32.5°	11899.3	11909.7	12212.4	12619.5	11497.4	10667.6	9989.1	11883.6	12922.2	12875.2
35°	8512.2	8533.0	9608.1	11617.5	10469.3	9754.3	9702.1	10271.0	12494.2	12515.1
37.5°	8193.8	8193.8	8167.7	8496.5	9660.3	9383.7	9488.1	9430.7	11445.2	11497.4
40°	7964.2	7917.2	7880.7	7364.0	6716.8	9122.8	9195.8	8934.9	10818.9	10829.4
42.5°	7687.6	7635.4	7645.8	6690.7	6012.3	8475.6	8272.1	7922.4	9775.2	9785.6
45°	7181.3	7270.0	7332.7	5855.7	5803.5	6054.0	7630.1	7411.0	9070.6	9263.7
47.5°	3653.3	3731.6	5725.2	5386.0	5506.0	5380.8	6445.4	6450.7	7546.6	8188.6
50°	3314.1	3293.2	3298.4	3141.8	5083.3	4352.6	4660.5	5913.1	6043.6	6962.1
52.5°	3089.6	3084.4	2766.1	2458.1	3194.0	3830.7	3381.9	4279.6	4493.5	5897.4
55°	2285.9	2452.9	2181.5	2312.0	1998.9	3068.8	3053.1	3862.0	3935.1	4728.4
57.5°	20.9	26.1	62.6	1758.8	1383.0	1534.4	2108.5	2635.6	2766.1	3684.6
60°	5.2	10.4	26.1	52.2	897.7	944.6	1409.1	1523.9	1717.0	2197.2
62.5°	0.0	0.0	10.4	26.1	47.0	386.2	448.8	490.6	756.8	1122.1
65°	0.0	0.0	5.2	15.7	26.1	62.6	109.6	229.6	328.8	407.1
67.5°	0.0	0.0	5.2	10.4	20.9	31.3	62.6	88.7	140.9	240.1
70°	0.0	0.0	5.2	10.4	15.7	26.1	41.8	62.6	83.5	120.0
72.5°	0.0	0.0	5.2	10.4	10.4	31.3	31.3	47.0	62.6	78.3
75°	0.0	0.0	5.2	5.2	10.4	20.9	31.3	36.5	41.8	62.6
77.5°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	41.8	36.5	36.5
80°	0.0	0.0	5.2	15.7	15.7	26.1	31.3	41.8	26.1	26.1
82.5°	0.0	0.0	5.2	20.9	15.7	52.2	52.2	57.4	20.9	20.9
85°	0.0	0.0	15.7	10.4	31.3	52.2	47.0	31.3	26.1	15.7
87.5°	0.0	0.0	5.2	5.2	10.4	15.7	36.5	31.3	10.4	10.4
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°
15322.9	0°	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9	15322.9
15229.0	2.5°	15437.7	15369.9	15510.8	15495.2	15427.3	15396.0	15359.5	15328.1	15098.5
15239.4	5°	15443.0	15338.6	15510.8	15479.5	15469.1	15416.9	15385.6	15432.5	15223.8
15281.2	7.5°	15443.0	15338.6	15526.5	15536.9	15521.2	15479.5	15474.3	15505.6	15333.4
15354.2	10°	15547.3	15505.6	15662.2	15677.8	15656.9	15646.5	15620.4	15599.5	15416.9
15604.8	12.5°	15766.5	15683.0	15860.5	15907.5	15891.8	15917.9	15855.3	15886.6	15698.7
15860.5	15°	16032.7	16037.9	16173.6	16278.0	16267.6	16351.1	16257.1	16340.6	16204.9
16152.7	17.5°	16439.8	16497.2	16690.3	16846.9	16904.3	16966.9	16904.3	16930.4	16737.3
15829.2	20°	16011.8	16225.8	17154.8	17441.8	17561.9	17619.3	17514.9	17546.2	17353.1
15432.5	22.5°	15625.6	15902.2	16726.8	17624.5	17995.0	18109.9	18073.3	18068.1	17995.0
14649.7	25°	15056.8	15615.2	15985.7	16935.6	18099.4	18308.2	18329.1	18323.8	18214.2
14169.5	27.5°	14357.4	14482.7	15443.0	16022.3	17368.8	18162.1	18130.7	17979.4	17833.3
13172.7	30°	13465.0	14033.8	14467.0	15390.8	16424.1	17713.2	17713.2	17598.4	17447.1
12817.8	32.5°	13010.9	13746.8	14148.7	14482.7	15364.7	17212.2	17421.0	17300.9	17180.9
12541.2	35°	12770.8	12880.4	13819.9	14122.6	14868.9	16246.7	17092.2	16972.1	16883.4
11805.3	37.5°	12243.7	12499.5	12937.9	13746.8	13976.4	15458.6	16653.8	16591.1	16486.8
10850.3	40°	11069.5	11753.1	12426.4	13193.6	13433.7	14446.1	16121.4	16147.5	16006.6
9832.6	42.5°	10375.3	10839.8	11894.1	12410.7	13057.9	13793.8	15604.8	15646.5	15547.3
9315.9	45°	9561.2	10077.9	10818.9	11758.4	12640.4	12896.1	14691.4	15129.8	15046.3
8287.7	47.5°	8814.9	9232.4	10140.5	11090.3	12066.3	12029.8	13642.4	14467.0	14352.2
7499.7	50°	7755.4	8486.1	8914.0	9785.6	11241.7	11340.8	12525.6	13689.4	13595.4
6372.4	52.5°	6539.4	7457.9	8277.3	9075.8	10406.6	10641.5	11487.0	12896.1	12833.5
4869.3	55°	5714.8	6382.8	7306.6	7948.5	9394.2	10020.4	10709.3	12139.3	12108.0
4003.0	57.5°	4065.6	5354.7	6116.6	7014.3	7776.3	8908.8	9420.3	10599.7	10307.5
2218.1	60°	2755.6	3361.0	4290.0	5255.5	5767.0	6899.5	7374.4	8319.1	8240.8
1325.6	62.5°	1456.1	2014.5	2677.3	3162.7	3533.2	4634.5	4832.8	5850.5	5824.4
532.3	65°	641.9	850.7	1450.9	1701.4	2082.4	2593.8	2766.1	3131.4	3042.7
260.9	67.5°	334.0	506.2	819.4	1007.3	1268.2	1461.3	1602.2	1717.0	1790.1
172.2	70°	203.5	370.5	506.2	699.3	871.6	1028.1	1137.7	1294.3	1388.2
88.7	72.5°	151.4	234.9	349.7	537.6	631.5	814.2	923.8	1038.6	1122.1
73.1	75°	83.5	156.6	281.8	422.7	506.2	662.8	762.0	840.3	866.4
41.8	77.5°	52.2	120.0	234.9	328.8	396.6	537.6	511.5	584.5	647.2
31.3	80°	36.5	88.7	182.7	271.4	276.6	344.5	407.1	469.7	511.5
20.9	82.5°	26.1	73.1	135.7	208.8	182.7	266.2	318.4	365.3	266.2
15.7	85°	20.9	52.2	67.8	125.3	104.4	187.9	161.8	156.6	104.4
10.4	87.5°	15.7	26.1	47.0	57.4	41.8	41.8	52.2	62.6	52.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15322.9
14941.9
15046.3
15135.0
15265.5
15531.7
15980.5
16570.3
17217.4
17760.2
18047.2
17718.4
17389.6
17081.7
16758.1
16382.4
15975.3
15536.9
15056.8
14435.7
13611.1
12875.2
12144.6
10276.2
8246.0
5829.6
3006.1
1790.1
1393.5
1137.7
850.7
657.6
516.7
193.1
104.4
52.2
0.0

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