

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: P638869

Luminaire Tested: **EPH-VN-08-E-930-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638869
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-930-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32295.5 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

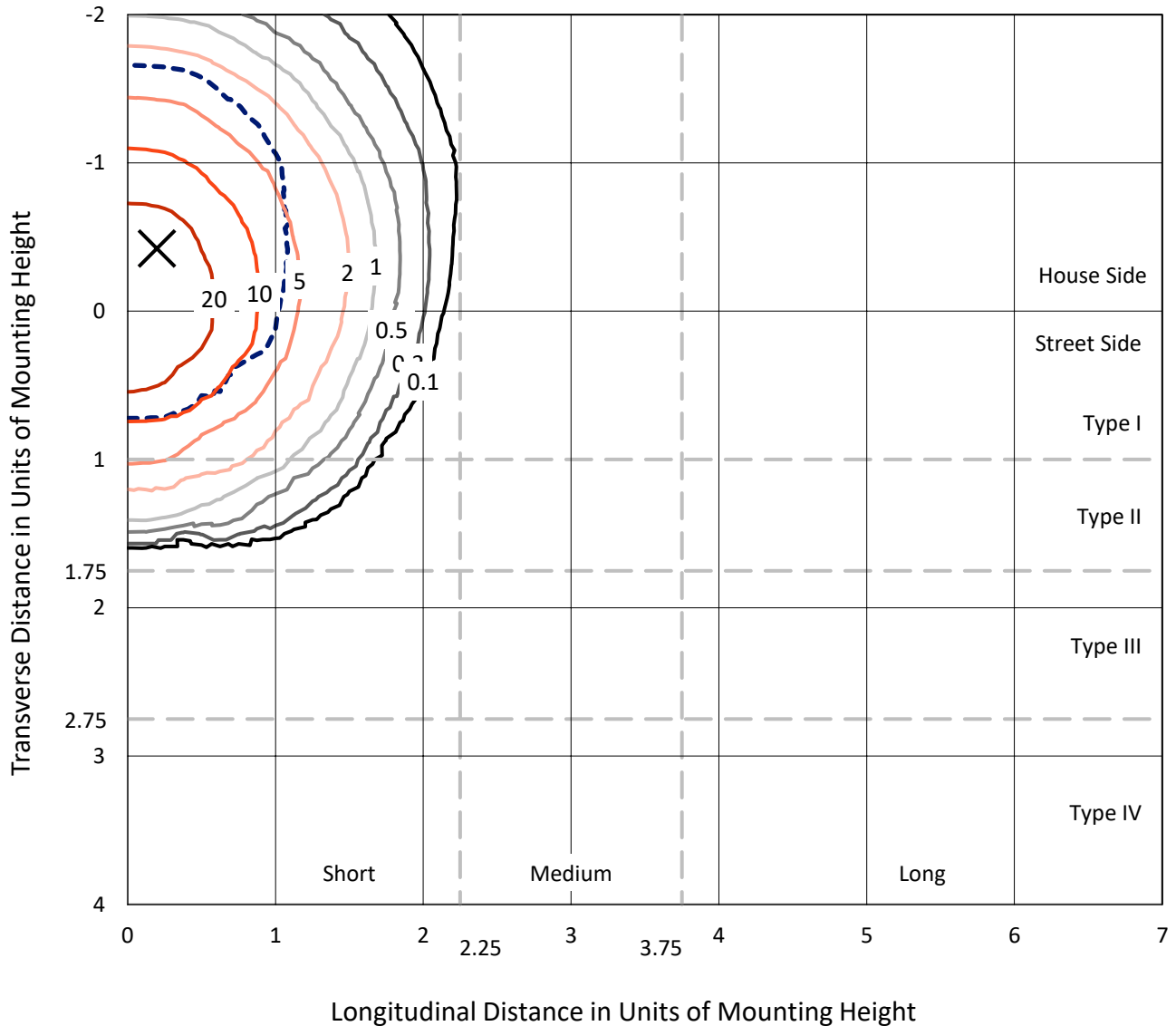
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

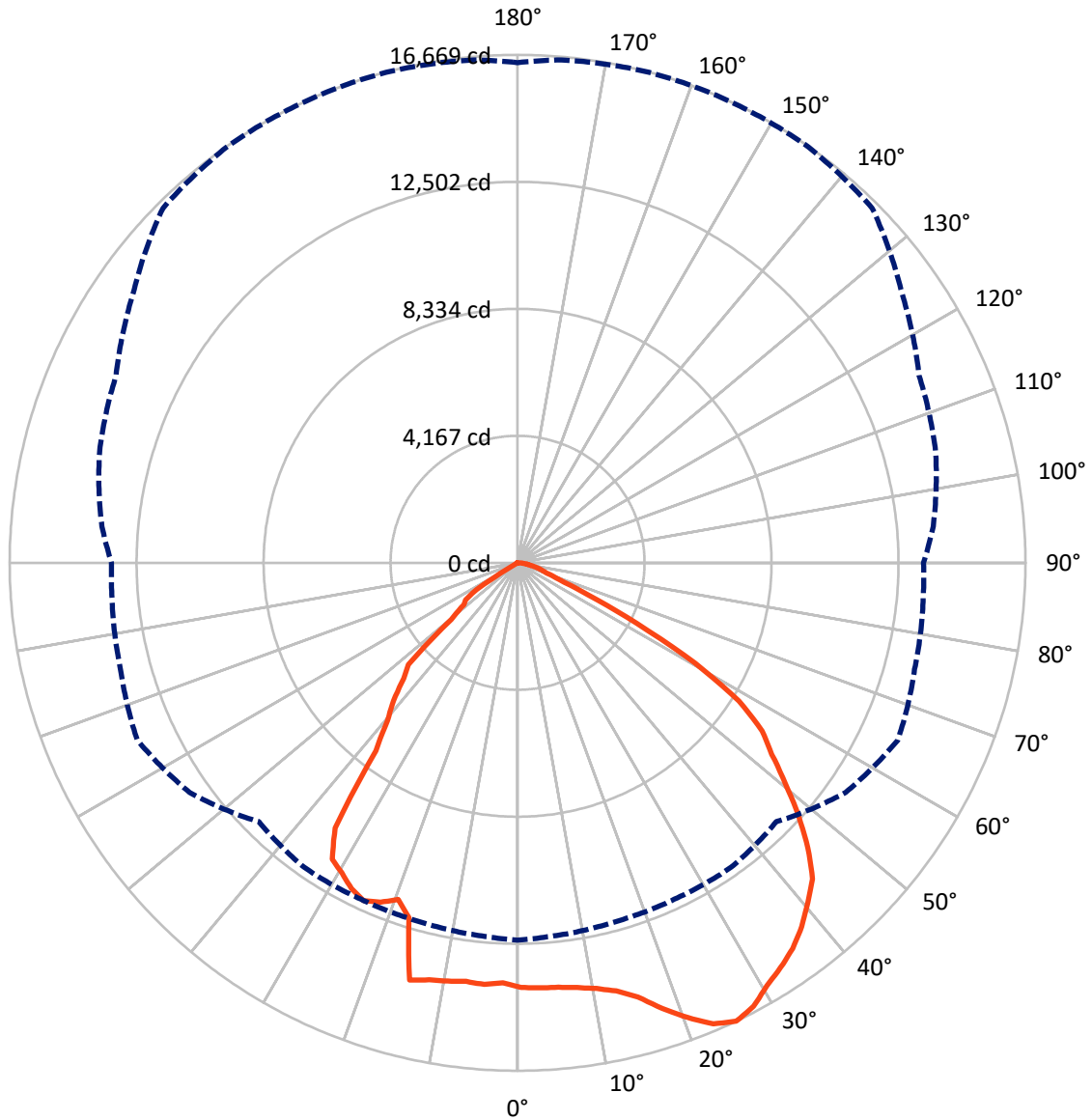
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.8 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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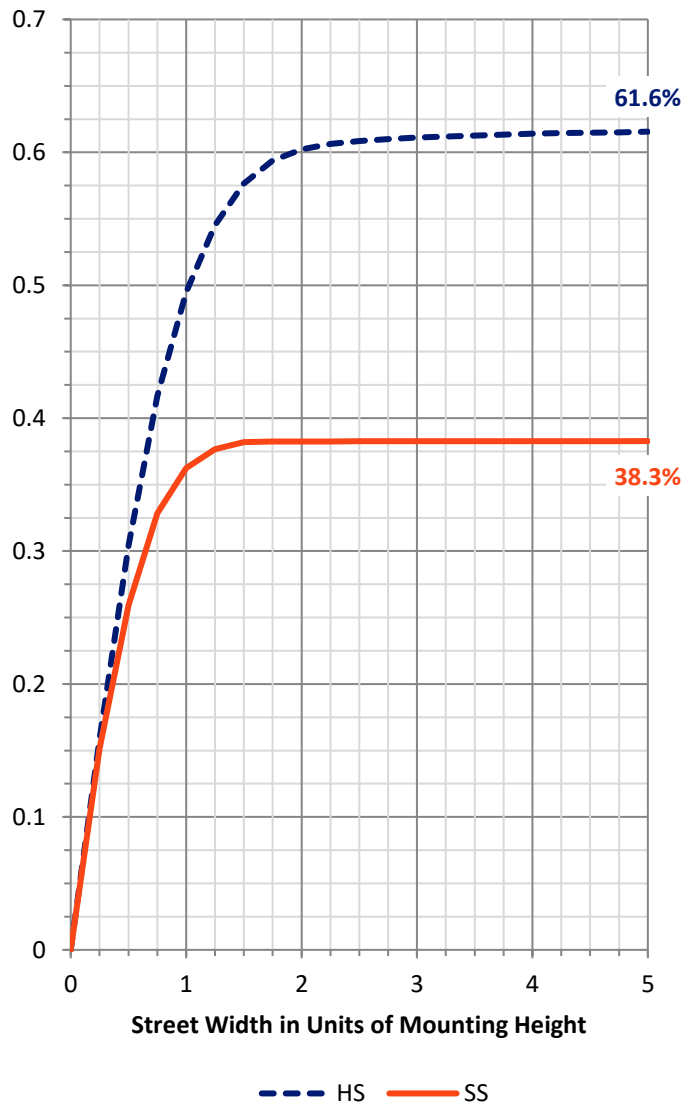
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19994.2	0.0	19994.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12301.3	0.0	12301.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	32295.5	0.0	32295.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1336.9	4.1
10°-20°	4082.1	12.6
20°-30°	6453.5	20.0
30°-40°	7289.8	22.6
40°-50°	6827.1	21.1
50°-60°	4706.8	14.6
60°-70°	1264.5	3.9
70°-80°	263.5	0.8
80°-90°	71.3	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°	32295.5	100.0
0°-180°	32295.5	100.0

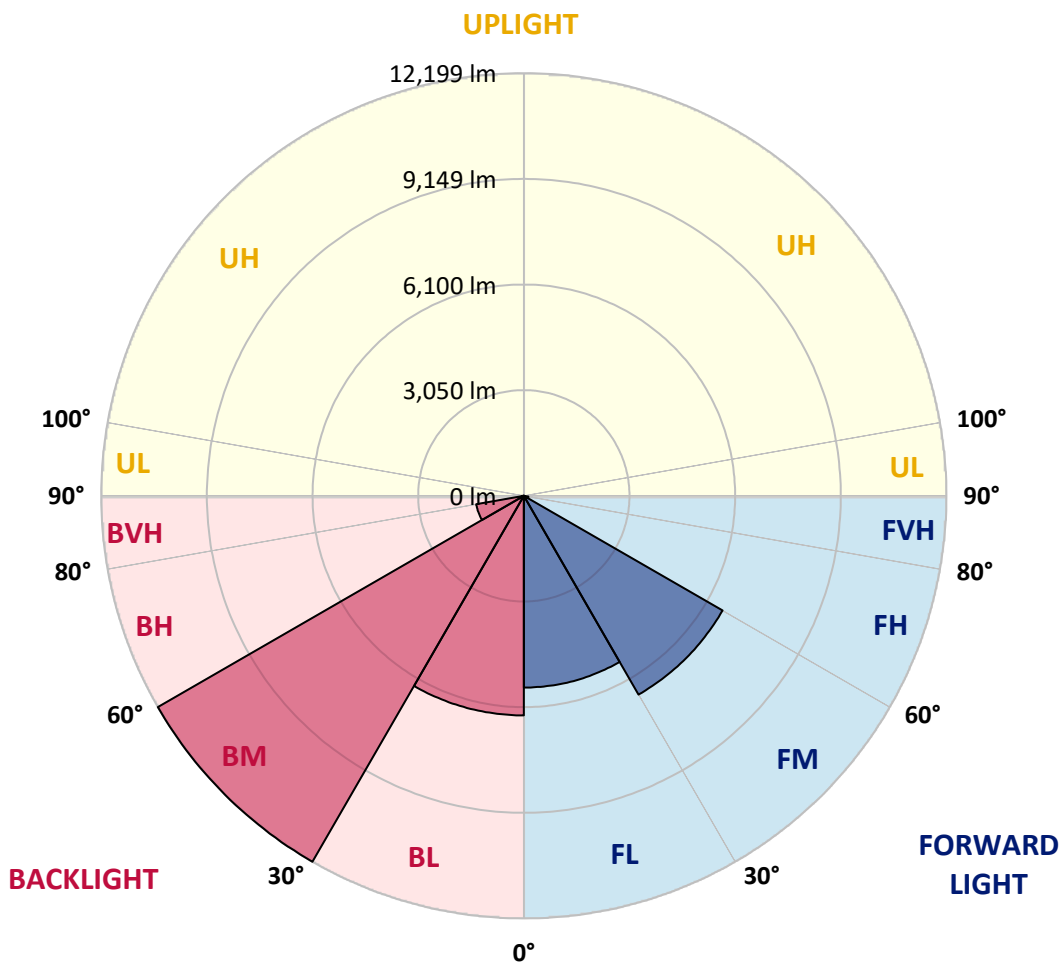


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5534.4	17.1			
FM (30°-60°)	6624.5	20.5			
FH (60°-80°)	132.7	0.4			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	6338.0	19.6	B5		
BM (30°-60°)	12199.1	37.8	B5		
BH (60°-80°)	1395.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	61.7	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°	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9
2.5°	13996.6	13906.4	13821.0	13792.5	13911.2	14039.3	13958.7	13963.4	13934.9	13987.1
5°	14101.0	13977.6	13920.7	13878.0	13896.9	14029.8	13915.9	13958.7	13911.2	13972.9
7.5°	14063.1	13977.6	13920.7	13840.0	13901.7	14058.3	13949.2	13953.9	13930.2	13987.1
10°	14039.3	13977.6	13906.4	13915.9	13987.1	14120.0	14034.6	14082.1	14048.8	14082.1
12.5°	14096.3	14029.8	13991.9	13991.9	14053.6	14205.5	14162.7	14205.5	14191.2	14219.7
15°	13560.0	13621.7	13982.4	14143.8	14267.2	14419.0	14400.0	14442.8	14452.3	14495.0
17.5°	11438.4	11376.7	11348.2	12178.8	14385.8	14855.7	14841.4	14836.7	14789.2	14756.0
20°	11718.4	11694.7	11661.5	11723.2	11970.0	15083.5	15178.4	14594.6	14423.8	14409.5
22.5°	12164.6	12126.6	12003.2	12008.0	12083.9	13113.8	14708.6	14177.0	14120.0	14086.8
25°	12382.9	12307.0	12207.3	12178.8	12202.5	12012.7	13137.6	13768.8	13488.8	13360.6
27.5°	11998.5	12003.2	11922.5	11998.5	11908.3	11054.0	10574.6	12971.4	12961.9	12905.0
30°	11708.9	11694.7	11599.8	11694.7	11072.9	10119.0	9914.9	12098.1	11998.5	11922.5
32.5°	10821.4	10830.9	11106.2	11476.4	10455.9	9701.3	9084.3	10807.2	11751.7	11708.9
35°	7741.1	7760.1	8737.8	10565.1	9520.9	8870.7	8823.2	9340.6	11362.5	11381.4
37.5°	7451.6	7451.6	7427.8	7726.9	8785.3	8533.7	8628.6	8576.4	10408.5	10455.9
40°	7242.7	7200.0	7166.8	6696.9	6108.4	8296.4	8362.9	8125.5	9838.9	9848.4
42.5°	6991.2	6943.7	6953.2	6084.7	5467.7	7707.9	7522.8	7204.8	8889.7	8899.2
45°	6530.8	6611.5	6668.4	5325.3	5277.8	5505.6	6939.0	6739.6	8248.9	8424.6
47.5°	3322.4	3393.6	5206.6	4898.1	5007.3	4893.4	5861.6	5866.3	6863.0	7446.8
50°	3013.9	2994.9	2999.6	2857.2	4622.8	3958.4	4238.4	5377.5	5496.1	6331.5
52.5°	2809.8	2805.0	2515.5	2235.5	2904.7	3483.7	3075.6	3891.9	4086.5	5363.2
55°	2078.8	2230.7	1983.9	2102.6	1817.8	2790.8	2776.5	3512.2	3578.7	4300.1
57.5°	19.0	23.7	57.0	1599.5	1257.7	1395.4	1917.5	2396.8	2515.5	3350.8
60°	4.7	9.5	23.7	47.5	816.4	859.1	1281.5	1385.9	1561.5	1998.2
62.5°	0.0	0.0	9.5	23.7	42.7	351.2	408.2	446.1	688.2	1020.4
65°	0.0	0.0	4.7	14.2	23.7	57.0	99.7	208.8	299.0	370.2
67.5°	0.0	0.0	4.7	9.5	19.0	28.5	57.0	80.7	128.1	218.3
70°	0.0	0.0	4.7	9.5	14.2	23.7	38.0	57.0	75.9	109.2
72.5°	0.0	0.0	4.7	9.5	9.5	28.5	28.5	42.7	57.0	71.2
75°	0.0	0.0	4.7	4.7	9.5	19.0	28.5	33.2	38.0	57.0
77.5°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	38.0	33.2	33.2
80°	0.0	0.0	4.7	14.2	14.2	23.7	28.5	38.0	23.7	23.7
82.5°	0.0	0.0	4.7	19.0	14.2	47.5	47.5	52.2	19.0	19.0
85°	0.0	0.0	14.2	9.5	28.5	47.5	42.7	28.5	23.7	14.2
87.5°	0.0	0.0	4.7	4.7	9.5	14.2	33.2	28.5	9.5	9.5
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°
13934.9	0°	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9	13934.9
13849.5	2.5°	14039.3	13977.6	14105.8	14091.5	14029.8	14001.4	13968.1	13939.7	13730.8
13859.0	5°	14044.1	13949.2	14105.8	14077.3	14067.8	14020.4	13991.9	14034.6	13844.7
13896.9	7.5°	14044.1	13949.2	14120.0	14129.5	14115.3	14077.3	14072.6	14101.0	13944.4
13963.4	10°	14139.0	14101.0	14243.4	14257.7	14238.7	14229.2	14205.5	14186.5	14020.4
14191.2	12.5°	14338.3	14262.4	14423.8	14466.5	14452.3	14476.0	14419.0	14447.5	14276.6
14423.8	15°	14580.4	14585.2	14708.6	14803.5	14794.0	14869.9	14784.5	14860.4	14737.0
14689.6	17.5°	14950.6	15002.8	15178.4	15320.8	15373.0	15430.0	15373.0	15396.8	15221.1
14395.3	20°	14561.4	14756.0	15600.8	15861.9	15971.1	16023.3	15928.3	15956.8	15781.2
14034.6	22.5°	14210.2	14461.8	15211.7	16028.0	16365.0	16469.4	16436.2	16431.4	16365.0
13322.7	25°	13692.9	14200.7	14537.7	15401.5	16459.9	16649.8	16668.7	16664.0	16564.3
12886.0	27.5°	13056.9	13170.8	14044.1	14570.9	15795.4	16516.9	16488.4	16350.7	16217.9
11979.5	30°	12245.3	12762.6	13156.5	13996.6	14936.4	16108.7	16108.7	16004.3	15866.6
11656.7	32.5°	11832.3	12501.6	12867.0	13170.8	13972.9	15653.1	15842.9	15733.7	15624.6
11405.2	35°	11614.0	11713.7	12568.0	12843.3	13522.0	14775.0	15543.9	15434.7	15354.0
10736.0	37.5°	11134.6	11367.2	11765.9	12501.6	12710.4	14058.3	15145.2	15088.3	14993.3
9867.4	40°	10066.7	10688.5	11300.8	11998.5	12216.8	13137.6	14661.1	14684.8	14556.7
8941.9	42.5°	9435.5	9857.9	10816.6	11286.5	11875.1	12544.3	14191.2	14229.2	14139.0
8472.0	45°	8695.1	9165.0	9838.9	10693.2	11495.4	11727.9	13360.6	13759.3	13683.4
7537.0	47.5°	8016.4	8396.1	9221.9	10085.7	10973.3	10940.1	12406.6	13156.5	13052.1
6820.3	50°	7052.9	7717.4	8106.6	8899.2	10223.4	10313.5	11390.9	12449.4	12363.9
5795.1	52.5°	5947.0	6782.4	7527.5	8253.7	9464.0	9677.6	10446.4	11727.9	11671.0
4428.2	55°	5197.1	5804.6	6644.7	7228.5	8543.2	9112.8	9739.3	11039.7	11011.2
3640.4	57.5°	3697.3	4869.6	5562.6	6378.9	7071.9	8101.8	8566.9	9639.6	9373.8
2017.1	60°	2506.0	3056.6	3901.4	4779.4	5244.6	6274.5	6706.4	7565.5	7494.3
1205.5	62.5°	1324.2	1832.0	2434.8	2876.2	3213.2	4214.6	4395.0	5320.5	5296.8
484.1	65°	583.8	773.6	1319.5	1547.3	1893.7	2358.9	2515.5	2847.7	2767.0
237.3	67.5°	303.8	460.4	745.2	916.0	1153.3	1328.9	1457.1	1561.5	1628.0
156.6	70°	185.1	337.0	460.4	636.0	792.6	935.0	1034.7	1177.1	1262.5
80.7	72.5°	137.6	213.6	318.0	488.9	574.3	740.4	840.1	944.5	1020.4
66.4	75°	75.9	142.4	256.3	384.4	460.4	602.8	692.9	764.1	787.9
38.0	77.5°	47.5	109.2	213.6	299.0	360.7	488.9	465.1	531.6	588.5
28.5	80°	33.2	80.7	166.1	246.8	251.5	313.3	370.2	427.2	465.1
19.0	82.5°	23.7	66.4	123.4	189.8	166.1	242.1	289.5	332.2	242.1
14.2	85°	19.0	47.5	61.7	113.9	94.9	170.9	147.1	142.4	94.9
9.5	87.5°	14.2	23.7	42.7	52.2	38.0	38.0	47.5	57.0	47.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13934.9
13588.4
13683.4
13764.1
13882.7
14124.8
14532.9
15069.3
15657.8
16151.4
16412.4
16113.4
15814.4
15534.4
15240.1
14898.4
14528.2
14129.5
13692.9
13128.1
12378.2
11708.9
11044.5
9345.3
7499.0
5301.5
2733.8
1628.0
1267.2
1034.7
773.6
598.0
469.9
175.6
94.9
47.5
0.0

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