

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: P638853

Luminaire Tested: **EPH-VN-04-E-750-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-750-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26367.9 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

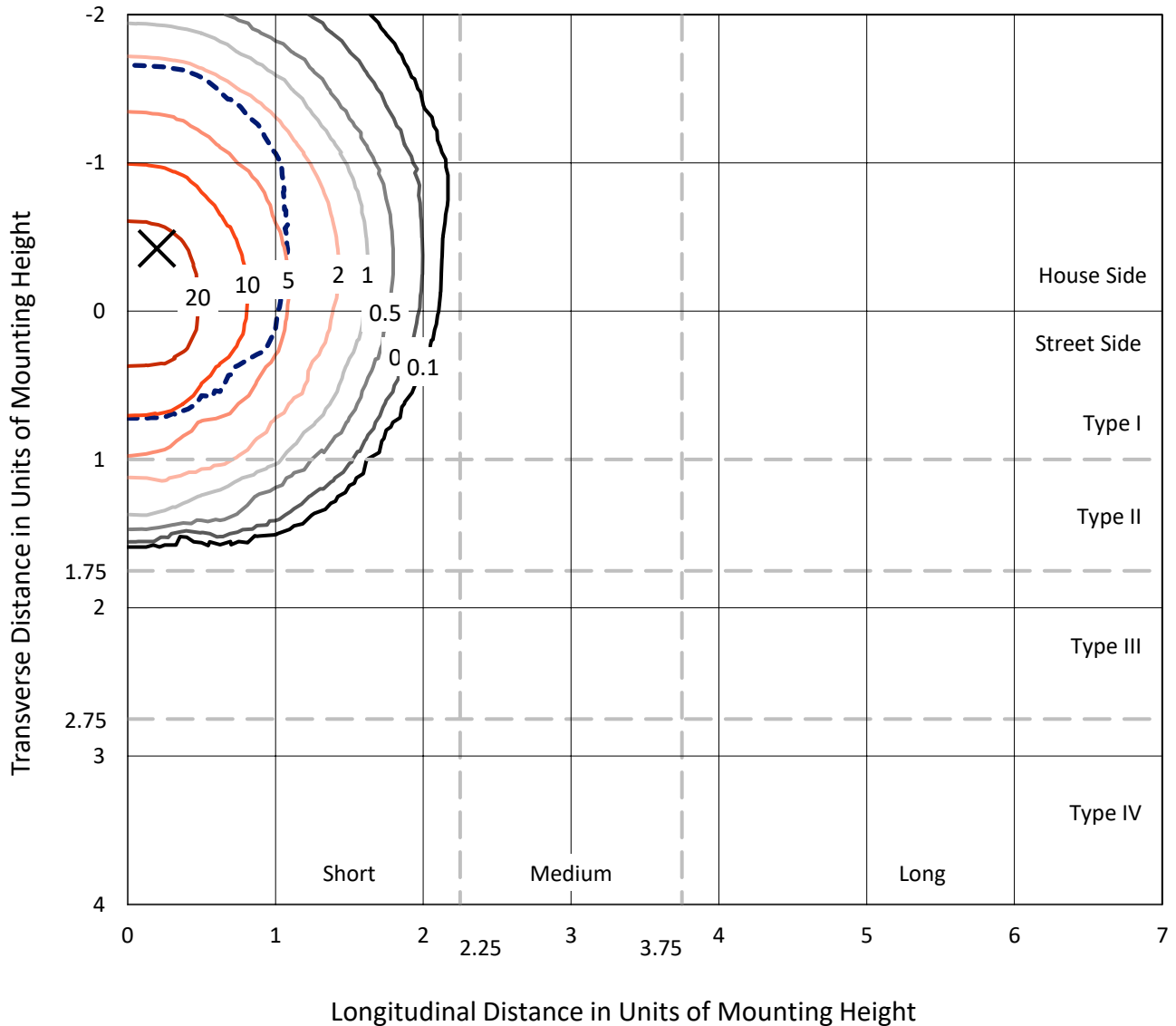
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

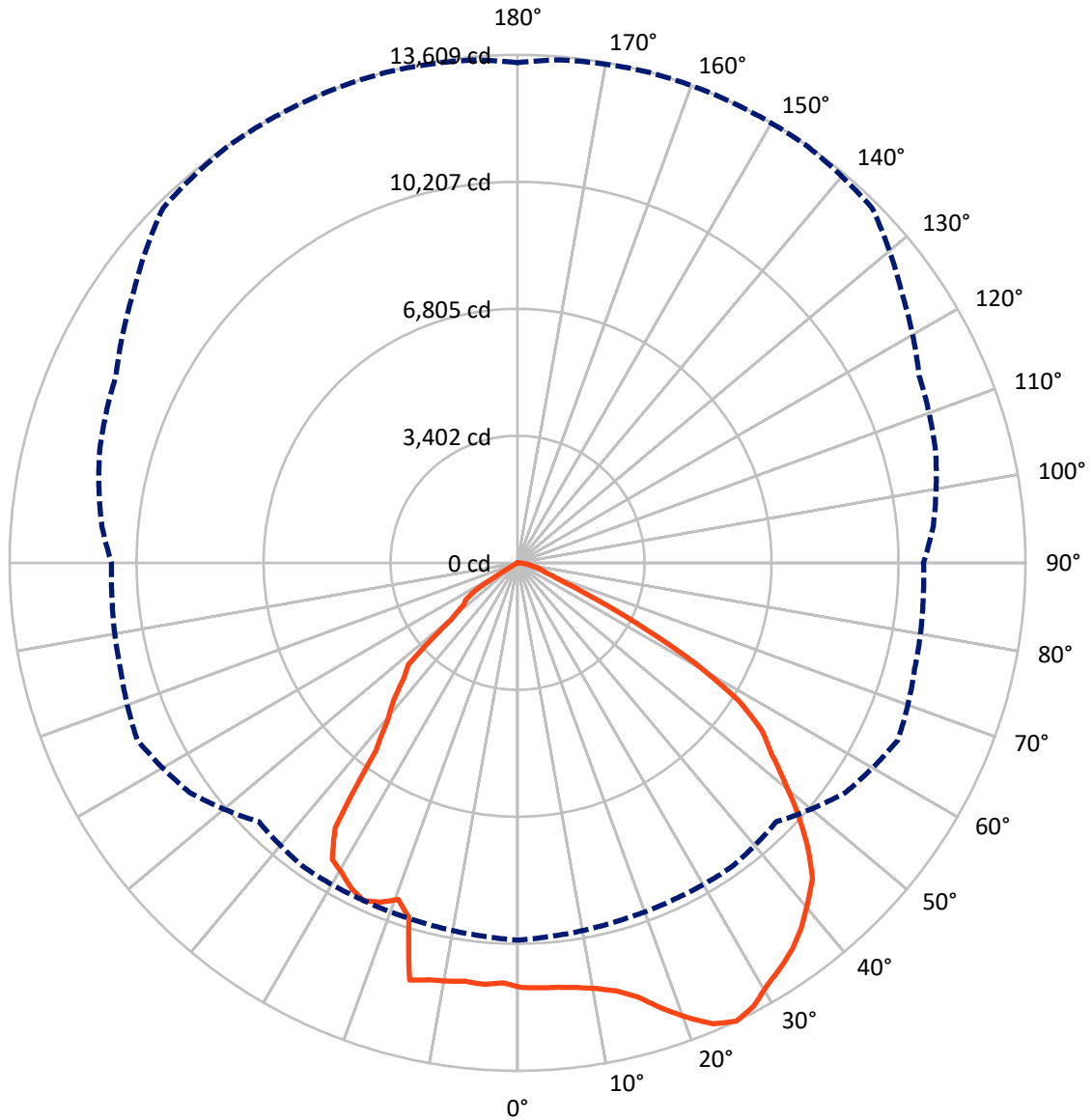
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 fc
 Type I - Short - N/A

REPORT NUMBER: P638853
CATALOG NUMBER: EPH-VN-04-E-750-U-LAM-VI

Luminous Intensity Polar Plot



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

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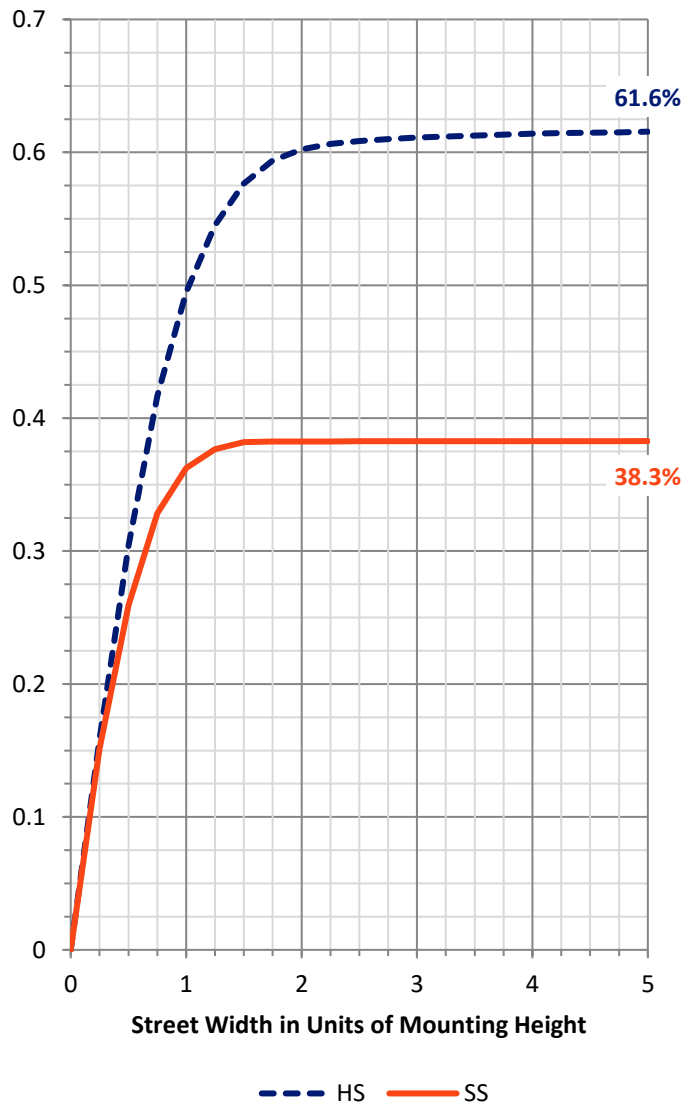
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16324.5	0.0	16324.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10043.5	0.0	10043.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	26367.9	0.0	26367.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.5	4.1
10°-20°	3332.8	12.6
20°-30°	5269.0	20.0
30°-40°	5951.8	22.6
40°-50°	5574.0	21.1
50°-60°	3842.9	14.6
60°-70°	1032.5	3.9
70°-80°	215.2	0.8
80°-90°	58.2	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°	26367.9	100.0
0°-180°	26367.9	100.0

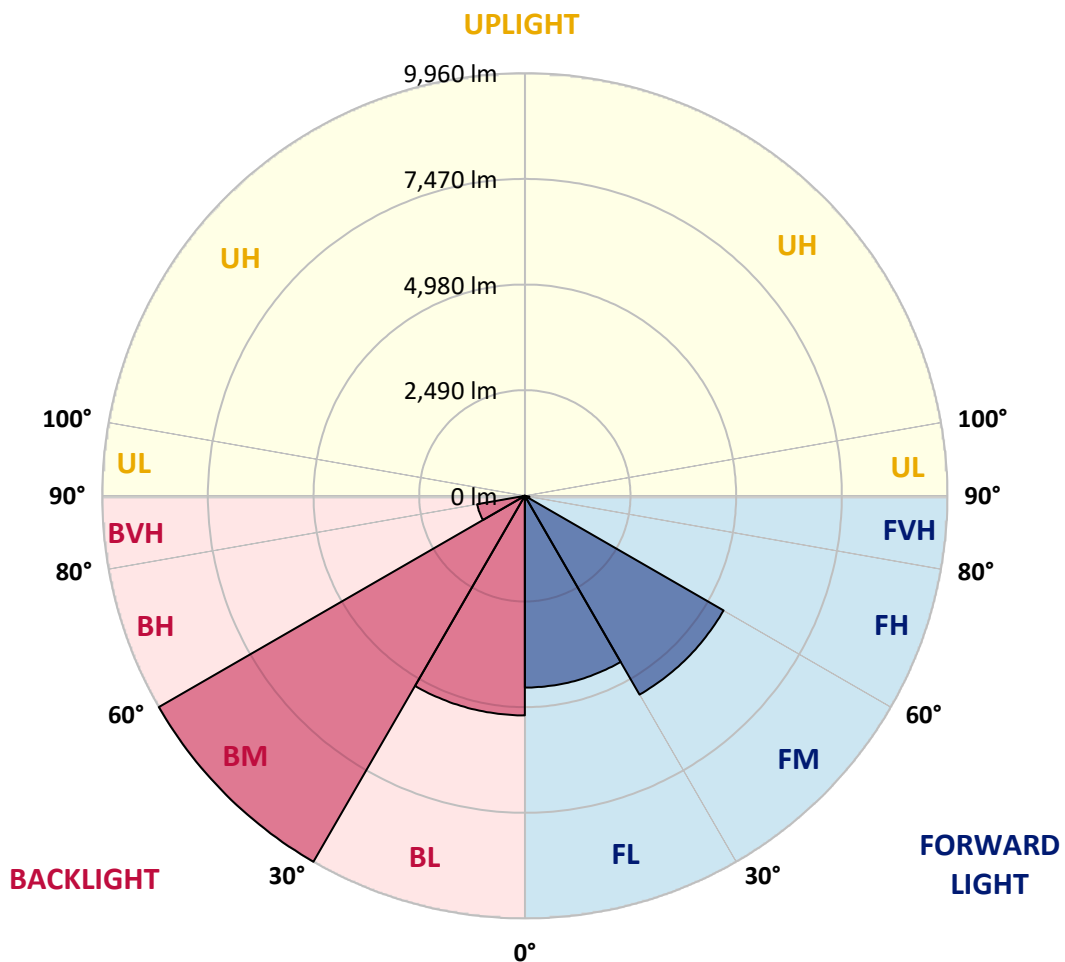


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4518.6	17.1			
FM (30°-60°)	5408.7	20.5			
FH (60°-80°)	108.4	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5174.7	19.6	B5		
BM (30°-60°)	9960.1	37.8	B5		
BH (60°-80°)	1139.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.4	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°	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3
2.5°	11427.7	11354.0	11284.3	11261.0	11357.9	11462.5	11396.7	11400.5	11377.3	11419.9
5°	11512.9	11412.2	11365.7	11330.8	11346.3	11454.8	11361.8	11396.7	11357.9	11408.3
7.5°	11481.9	11412.2	11365.7	11299.8	11350.2	11478.0	11388.9	11392.8	11373.4	11419.9
10°	11462.5	11412.2	11354.0	11361.8	11419.9	11528.4	11458.7	11497.4	11470.3	11497.4
12.5°	11509.0	11454.8	11423.8	11423.8	11474.2	11598.2	11563.3	11598.2	11586.5	11609.8
15°	11071.2	11121.5	11416.0	11547.8	11648.5	11772.5	11757.0	11791.9	11799.7	11834.5
17.5°	9339.0	9288.6	9265.4	9943.5	11745.4	12129.1	12117.4	12113.6	12074.8	12047.7
20°	9567.6	9548.2	9521.1	9571.5	9773.0	12315.1	12392.6	11915.9	11776.4	11764.8
22.5°	9931.9	9900.9	9800.1	9804.0	9866.0	10706.9	12008.9	11574.9	11528.4	11501.3
25°	10110.1	10048.1	9966.8	9943.5	9962.9	9807.9	10726.3	11241.7	11013.0	10908.4
27.5°	9796.2	9800.1	9734.2	9796.2	9722.6	9025.1	8633.7	10590.6	10582.9	10536.4
30°	9559.9	9548.2	9470.7	9548.2	9040.6	8261.7	8095.1	9877.6	9796.2	9734.2
32.5°	8835.2	8843.0	9067.7	9370.0	8536.8	7920.7	7416.9	8823.6	9594.7	9559.9
35°	6320.3	6335.8	7134.1	8626.0	7773.4	7242.6	7203.8	7626.2	9277.0	9292.5
37.5°	6083.9	6083.9	6064.5	6308.7	7172.8	6967.4	7044.9	7002.3	8498.1	8536.8
40°	5913.4	5878.5	5851.4	5467.8	4987.3	6773.7	6827.9	6634.2	8033.1	8040.8
42.5°	5708.0	5669.3	5677.0	4967.9	4464.1	6293.2	6142.0	5882.4	7258.1	7265.8
45°	5332.1	5398.0	5444.5	4347.9	4309.1	4495.1	5665.4	5502.6	6734.9	6878.3
47.5°	2712.6	2770.7	4251.0	3999.1	4088.2	3995.2	4785.7	4789.6	5603.4	6080.0
50°	2460.7	2445.2	2449.1	2332.8	3774.3	3231.8	3460.5	4390.5	4487.4	5169.4
52.5°	2294.1	2290.2	2053.8	1825.2	2371.6	2844.3	2511.1	3177.6	3336.5	4378.9
55°	1697.3	1821.3	1619.8	1716.7	1484.2	2278.6	2266.9	2867.6	2921.8	3510.8
57.5°	15.5	19.4	46.5	1305.9	1026.9	1139.3	1565.5	1956.9	2053.8	2735.8
60°	3.9	7.8	19.4	38.8	666.5	701.4	1046.3	1131.5	1274.9	1631.4
62.5°	0.0	0.0	7.8	19.4	34.9	286.8	333.3	364.3	561.9	833.1
65°	0.0	0.0	3.9	11.6	19.4	46.5	81.4	170.5	244.1	302.3
67.5°	0.0	0.0	3.9	7.8	15.5	23.3	46.5	65.9	104.6	178.3
70°	0.0	0.0	3.9	7.8	11.6	19.4	31.0	46.5	62.0	89.1
72.5°	0.0	0.0	3.9	7.8	7.8	23.3	23.3	34.9	46.5	58.1
75°	0.0	0.0	3.9	3.9	7.8	15.5	23.3	27.1	31.0	46.5
77.5°	0.0	0.0	3.9	7.8	11.6	15.5	19.4	31.0	27.1	27.1
80°	0.0	0.0	3.9	11.6	11.6	19.4	23.3	31.0	19.4	19.4
82.5°	0.0	0.0	3.9	15.5	11.6	38.8	38.8	42.6	15.5	15.5
85°	0.0	0.0	11.6	7.8	23.3	38.8	34.9	23.3	19.4	11.6
87.5°	0.0	0.0	3.9	3.9	7.8	11.6	27.1	23.3	7.8	7.8
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°
11377.3	0°	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3	11377.3
11307.5	2.5°	11462.5	11412.2	11516.8	11505.2	11454.8	11431.5	11404.4	11381.2	11210.7
11315.3	5°	11466.4	11388.9	11516.8	11493.5	11485.8	11447.0	11423.8	11458.7	11303.7
11346.3	7.5°	11466.4	11388.9	11528.4	11536.2	11524.5	11493.5	11489.7	11512.9	11385.0
11400.5	10°	11543.9	11512.9	11629.2	11640.8	11625.3	11617.5	11598.2	11582.7	11447.0
11586.5	12.5°	11706.7	11644.7	11776.4	11811.3	11799.7	11819.0	11772.5	11795.8	11656.3
11776.4	15°	11904.3	11908.2	12008.9	12086.4	12078.7	12140.7	12070.9	12132.9	12032.2
11993.4	17.5°	12206.6	12249.2	12392.6	12508.8	12551.4	12597.9	12551.4	12570.8	12427.4
11753.2	20°	11888.8	12047.7	12737.4	12950.6	13039.7	13082.3	13004.8	13028.1	12884.7
11458.7	22.5°	11602.0	11807.4	12419.7	13086.2	13361.3	13446.6	13419.5	13415.6	13361.3
10877.4	25°	11179.7	11594.3	11869.4	12574.7	13438.8	13593.8	13609.3	13605.5	13524.1
10520.9	27.5°	10660.4	10753.4	11466.4	11896.5	12896.3	13485.3	13462.1	13349.7	13241.2
9780.7	30°	9997.8	10420.1	10741.8	11427.7	12194.9	13152.1	13152.1	13066.8	12954.5
9517.2	32.5°	9660.6	10207.0	10505.4	10753.4	11408.3	12780.1	12935.1	12845.9	12756.8
9311.9	35°	9482.4	9563.7	10261.3	10486.0	11040.2	12063.2	12690.9	12601.8	12535.9
8765.5	37.5°	9091.0	9280.9	9606.4	10207.0	10377.5	11478.0	12365.4	12318.9	12241.4
8056.3	40°	8219.1	8726.7	9226.6	9796.2	9974.5	10726.3	11970.2	11989.6	11884.9
7300.7	42.5°	7703.7	8048.6	8831.3	9215.0	9695.5	10241.9	11586.5	11617.5	11543.9
6917.0	45°	7099.2	7482.8	8033.1	8730.6	9385.5	9575.4	10908.4	11233.9	11171.9
6153.7	47.5°	6545.0	6855.0	7529.3	8234.6	8959.2	8932.1	10129.5	10741.8	10656.5
5568.5	50°	5758.4	6300.9	6618.7	7265.8	8347.0	8420.6	9300.2	10164.4	10094.6
4731.5	52.5°	4855.5	5537.5	6145.9	6738.8	7726.9	7901.3	8529.1	9575.4	9528.9
3615.5	55°	4243.2	4739.2	5425.1	5901.8	6975.2	7440.2	7951.7	9013.5	8990.2
2972.2	57.5°	3018.7	3975.9	4541.6	5208.1	5773.9	6614.8	6994.6	7870.3	7653.3
1646.9	60°	2046.1	2495.6	3185.3	3902.2	4282.0	5122.9	5475.5	6176.9	6118.8
984.3	62.5°	1081.2	1495.8	1987.9	2348.3	2623.4	3441.1	3588.3	4344.0	4324.6
395.3	65°	476.6	631.6	1077.3	1263.3	1546.2	1925.9	2053.8	2325.1	2259.2
193.8	67.5°	248.0	375.9	608.4	747.9	941.6	1085.0	1189.7	1274.9	1329.2
127.9	70°	151.1	275.1	375.9	519.3	647.1	763.4	844.8	961.0	1030.8
65.9	72.5°	112.4	174.4	259.6	399.1	468.9	604.5	685.9	771.1	833.1
54.3	75°	62.0	116.3	209.3	313.9	375.9	492.1	565.8	623.9	643.3
31.0	77.5°	38.8	89.1	174.4	244.1	294.5	399.1	379.8	434.0	480.5
23.3	80°	27.1	65.9	135.6	201.5	205.4	255.8	302.3	348.8	379.8
15.5	82.5°	19.4	54.3	100.8	155.0	135.6	197.6	236.4	271.3	197.6
11.6	85°	15.5	38.8	50.4	93.0	77.5	139.5	120.1	116.3	77.5
7.8	87.5°	11.6	19.4	34.9	42.6	31.0	31.0	38.8	46.5	38.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11377.3
11094.4
11171.9
11237.8
11334.7
11532.3
11865.5
12303.4
12783.9
13187.0
13400.1
13156.0
12911.8
12683.2
12442.9
12163.9
11861.7
11536.2
11179.7
10718.5
10106.3
9559.9
9017.4
7630.1
6122.7
4328.5
2232.1
1329.2
1034.7
844.8
631.6
488.3
383.6
143.4
77.5
38.8
0.0

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