

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: P638876

Luminaire Tested: **EPH-VN-03-E-940-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638876
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-940-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14365.5 lumens
Efficiency: N/A
Efficacy: 61.9 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

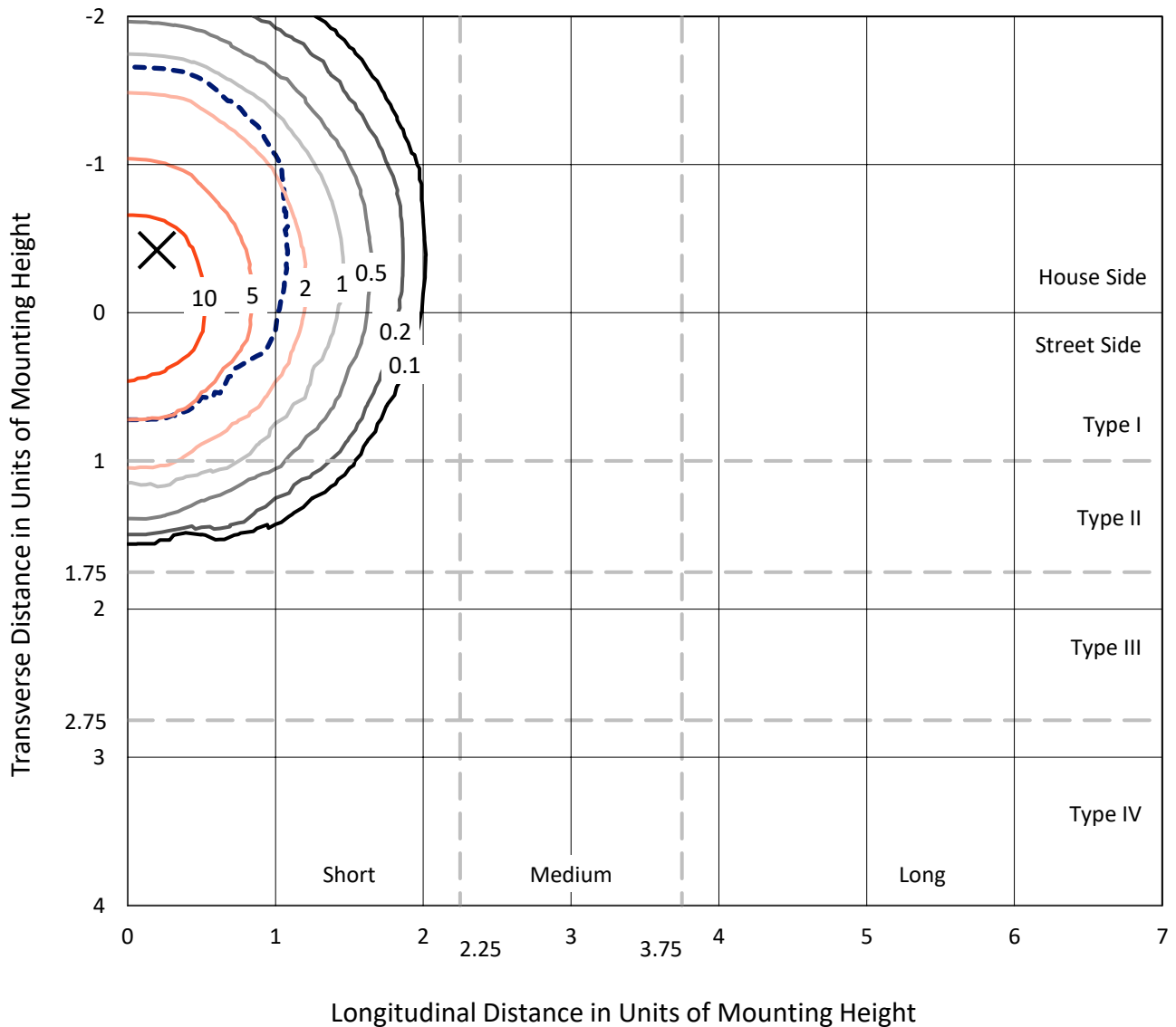
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

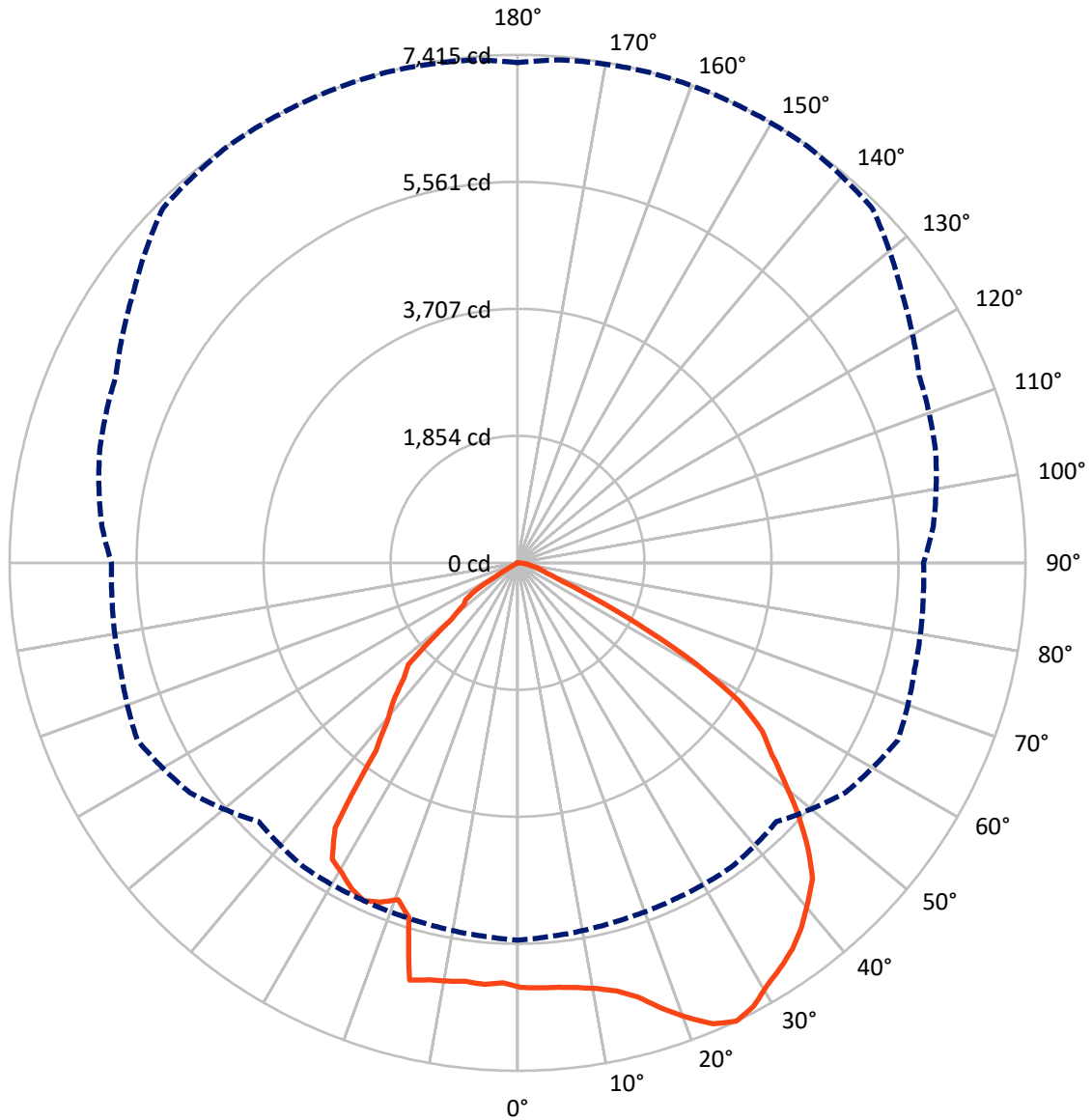
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 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	8893.7	0.0	8893.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5471.8	0.0	5471.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	14365.5	0.0	14365.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	4.1
10°-20°	1815.8	12.6
20°-30°	2870.6	20.0
30°-40°	3242.6	22.6
40°-50°	3036.8	21.1
50°-60°	2093.6	14.6
60°-70°	562.5	3.9
70°-80°	117.2	0.8
80°-90°	31.7	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°	14365.5	100.0
0°-180°	14365.5	100.0

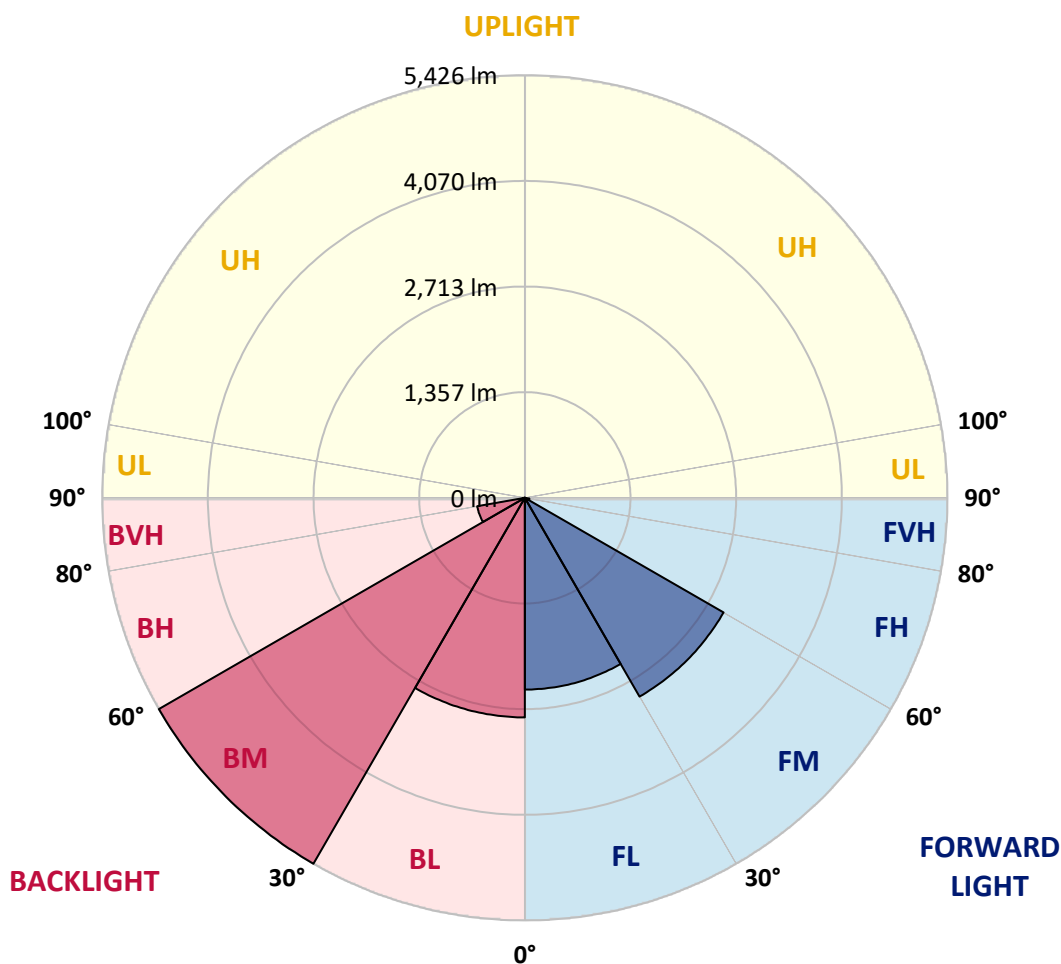


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.8	17.1			
FM (30°-60°)	2946.7	20.5			
FH (60°-80°)	59.0	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	2819.3	19.6	B4/5000		
BM (30°-60°)	5426.4	37.8	B4/8500		
BH (60°-80°)	620.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.5	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°	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5
2.5°	6225.9	6185.8	6147.8	6135.1	6187.9	6244.9	6209.0	6211.1	6198.5	6221.7
5°	6272.4	6217.5	6192.1	6173.1	6181.6	6240.7	6190.0	6209.0	6187.9	6215.4
7.5°	6255.5	6217.5	6192.1	6156.2	6183.7	6253.4	6204.8	6206.9	6196.4	6221.7
10°	6244.9	6217.5	6185.8	6190.0	6221.7	6280.8	6242.8	6263.9	6249.1	6263.9
12.5°	6270.3	6240.7	6223.8	6223.8	6251.3	6318.8	6299.8	6318.8	6312.5	6325.1
15°	6031.7	6059.1	6219.6	6291.4	6346.3	6413.8	6405.4	6424.4	6428.6	6447.6
17.5°	5088.0	5060.5	5047.9	5417.3	6399.0	6608.0	6601.7	6599.6	6578.5	6563.7
20°	5212.5	5202.0	5187.2	5214.7	5324.4	6709.4	6751.6	6491.9	6415.9	6409.6
22.5°	5411.0	5394.1	5339.2	5341.3	5375.1	5833.2	6542.6	6306.1	6280.8	6266.0
25°	5508.1	5474.3	5430.0	5417.3	5427.9	5343.4	5843.8	6124.6	6000.0	5943.0
27.5°	5337.1	5339.2	5303.3	5337.1	5297.0	4917.0	4703.7	5769.9	5765.7	5740.3
30°	5208.3	5202.0	5159.8	5202.0	4925.4	4501.1	4410.3	5381.4	5337.1	5303.3
32.5°	4813.5	4817.8	4940.2	5104.9	4651.0	4315.3	4040.8	4807.2	5227.3	5208.3
35°	3443.4	3451.8	3886.7	4699.5	4235.1	3945.8	3924.7	4154.8	5054.2	5062.6
37.5°	3314.6	3314.6	3304.0	3437.0	3907.8	3795.9	3838.2	3814.9	4629.9	4651.0
40°	3221.7	3202.7	3187.9	2978.9	2717.1	3690.4	3719.9	3614.4	4376.5	4380.7
42.5°	3109.8	3088.7	3092.9	2706.6	2432.1	3428.6	3346.2	3204.8	3954.3	3958.5
45°	2905.0	2940.9	2966.2	2368.8	2347.7	2449.0	3086.6	2997.9	3669.3	3747.4
47.5°	1477.8	1509.5	2316.0	2178.8	2227.3	2176.6	2607.3	2609.4	3052.8	3312.5
50°	1340.6	1332.2	1334.3	1270.9	2056.3	1760.7	1885.3	2392.0	2444.8	2816.3
52.5°	1249.8	1247.7	1118.9	994.4	1292.1	1549.6	1368.1	1731.2	1817.7	2385.7
55°	924.7	992.3	882.5	935.3	808.6	1241.4	1235.0	1562.3	1591.8	1912.7
57.5°	8.4	10.6	25.3	711.5	559.5	620.7	852.9	1066.2	1118.9	1490.5
60°	2.1	4.2	10.6	21.1	363.1	382.1	570.0	616.5	694.6	888.8
62.5°	0.0	0.0	4.2	10.6	19.0	156.2	181.6	198.5	306.1	453.9
65°	0.0	0.0	2.1	6.3	10.6	25.3	44.3	92.9	133.0	164.7
67.5°	0.0	0.0	2.1	4.2	8.4	12.7	25.3	35.9	57.0	97.1
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.3	33.8	48.6
72.5°	0.0	0.0	2.1	4.2	4.2	12.7	12.7	19.0	25.3	31.7
75°	0.0	0.0	2.1	2.1	4.2	8.4	12.7	14.8	16.9	25.3
77.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	16.9	14.8	14.8
80°	0.0	0.0	2.1	6.3	6.3	10.6	12.7	16.9	10.6	10.6
82.5°	0.0	0.0	2.1	8.4	6.3	21.1	21.1	23.2	8.4	8.4
85°	0.0	0.0	6.3	4.2	12.7	21.1	19.0	12.7	10.6	6.3
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	14.8	12.7	4.2	4.2
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°
6198.5	0°	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5	6198.5
6160.5	2.5°	6244.9	6217.5	6274.5	6268.1	6240.7	6228.0	6213.3	6200.6	6107.7
6164.7	5°	6247.0	6204.8	6274.5	6261.8	6257.6	6236.5	6223.8	6242.8	6158.4
6181.6	7.5°	6247.0	6204.8	6280.8	6285.0	6278.7	6261.8	6259.7	6272.4	6202.7
6211.1	10°	6289.3	6272.4	6335.7	6342.0	6333.6	6329.4	6318.8	6310.4	6236.5
6312.5	12.5°	6377.9	6344.1	6415.9	6434.9	6428.6	6439.1	6413.8	6426.5	6350.5
6415.9	15°	6485.6	6487.7	6542.6	6584.8	6580.6	6614.4	6576.4	6610.2	6555.3
6534.2	17.5°	6650.3	6673.5	6751.6	6814.9	6838.2	6863.5	6838.2	6848.7	6770.6
6403.3	20°	6477.2	6563.7	6939.5	7055.6	7104.2	7127.4	7085.2	7097.8	7019.7
6242.8	22.5°	6320.9	6432.8	6766.4	7129.5	7279.4	7325.9	7311.1	7309.0	7279.4
5926.1	25°	6090.8	6316.7	6466.6	6850.8	7321.6	7406.1	7414.5	7412.4	7368.1
5731.9	27.5°	5807.9	5858.6	6247.0	6481.4	7026.1	7347.0	7334.3	7273.1	7214.0
5328.7	30°	5446.9	5677.0	5852.2	6225.9	6643.9	7165.4	7165.4	7119.0	7057.7
5185.1	32.5°	5263.2	5560.9	5723.5	5858.6	6215.4	6962.7	7047.2	6998.6	6950.1
5073.2	35°	5166.1	5210.4	5590.4	5712.9	6014.8	6572.2	6914.2	6865.6	6829.7
4775.5	37.5°	4952.9	5056.3	5233.7	5560.9	5653.8	6253.4	6736.8	6711.5	6669.3
4389.2	40°	4477.8	4754.4	5026.8	5337.1	5434.2	5843.8	6521.5	6532.0	6475.0
3977.5	42.5°	4197.1	4385.0	4811.4	5020.4	5282.2	5579.9	6312.5	6329.4	6289.3
3768.5	45°	3867.7	4076.7	4376.5	4756.5	5113.3	5216.8	5943.0	6120.4	6086.6
3352.6	47.5°	3565.8	3734.7	4102.1	4486.3	4881.1	4866.3	5518.7	5852.2	5805.8
3033.8	50°	3137.2	3432.8	3605.9	3958.5	4547.5	4587.6	5066.9	5537.7	5499.7
2577.8	52.5°	2645.3	3016.9	3348.4	3671.4	4209.7	4304.7	4646.7	5216.8	5191.4
1969.7	55°	2311.8	2582.0	2955.7	3215.4	3800.2	4053.5	4332.2	4910.6	4898.0
1619.3	57.5°	1644.6	2166.1	2474.3	2837.4	3145.7	3603.8	3810.7	4287.8	4169.6
897.3	60°	1114.7	1359.6	1735.4	2126.0	2332.9	2791.0	2983.1	3365.2	3333.6
536.2	62.5°	589.0	814.9	1083.0	1279.4	1429.3	1874.7	1955.0	2366.7	2356.1
215.3	65°	259.7	344.1	586.9	688.3	842.4	1049.3	1118.9	1266.7	1230.8
105.6	67.5°	135.1	204.8	331.5	407.5	513.0	591.1	648.1	694.6	724.1
69.7	70°	82.3	149.9	204.8	282.9	352.6	415.9	460.2	523.6	561.6
35.9	72.5°	61.2	95.0	141.5	217.5	255.5	329.3	373.7	420.1	453.9
29.6	75°	33.8	63.3	114.0	171.0	204.8	268.1	308.2	339.9	350.5
16.9	77.5°	21.1	48.6	95.0	133.0	160.5	217.5	206.9	236.5	261.8
12.7	80°	14.8	35.9	73.9	109.8	111.9	139.3	164.7	190.0	206.9
8.4	82.5°	10.6	29.6	54.9	84.4	73.9	107.7	128.8	147.8	107.7
6.3	85°	8.4	21.1	27.4	50.7	42.2	76.0	65.4	63.3	42.2
4.2	87.5°	6.3	10.6	19.0	23.2	16.9	16.9	21.1	25.3	21.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6198.5
6044.4
6086.6
6122.5
6175.2
6282.9
6464.5
6703.0
6964.8
7184.4
7300.5
7167.5
7034.5
6909.9
6779.1
6627.0
6462.4
6285.0
6090.8
5839.6
5506.0
5208.3
4912.8
4156.9
3335.7
2358.2
1216.0
724.1
563.7
460.2
344.1
266.0
209.0
78.1
42.2
21.1
0.0

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