

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: P638865

Luminaire Tested: **EPH-VN-04-E-930-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638865
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-930-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16497.6 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

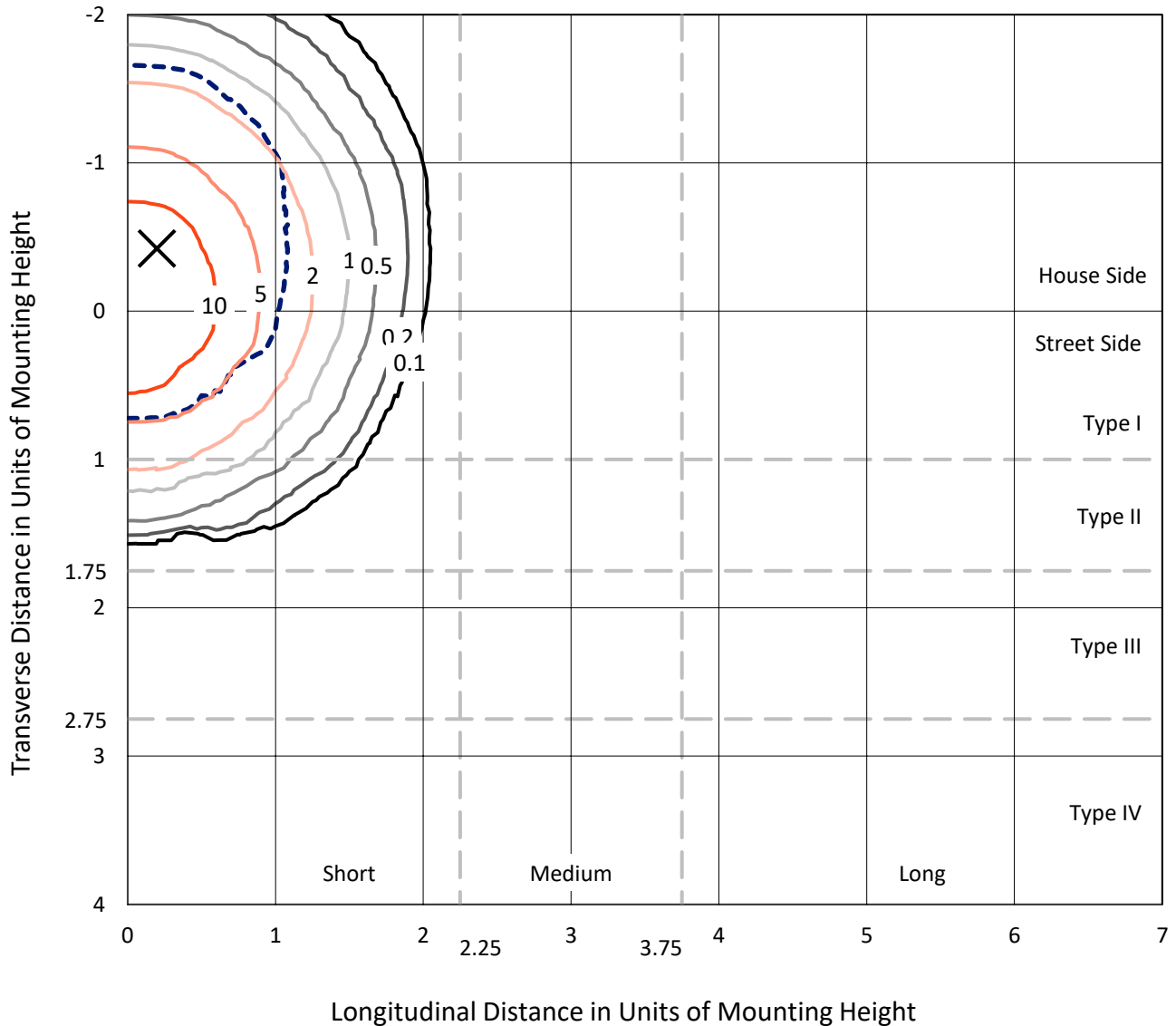
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

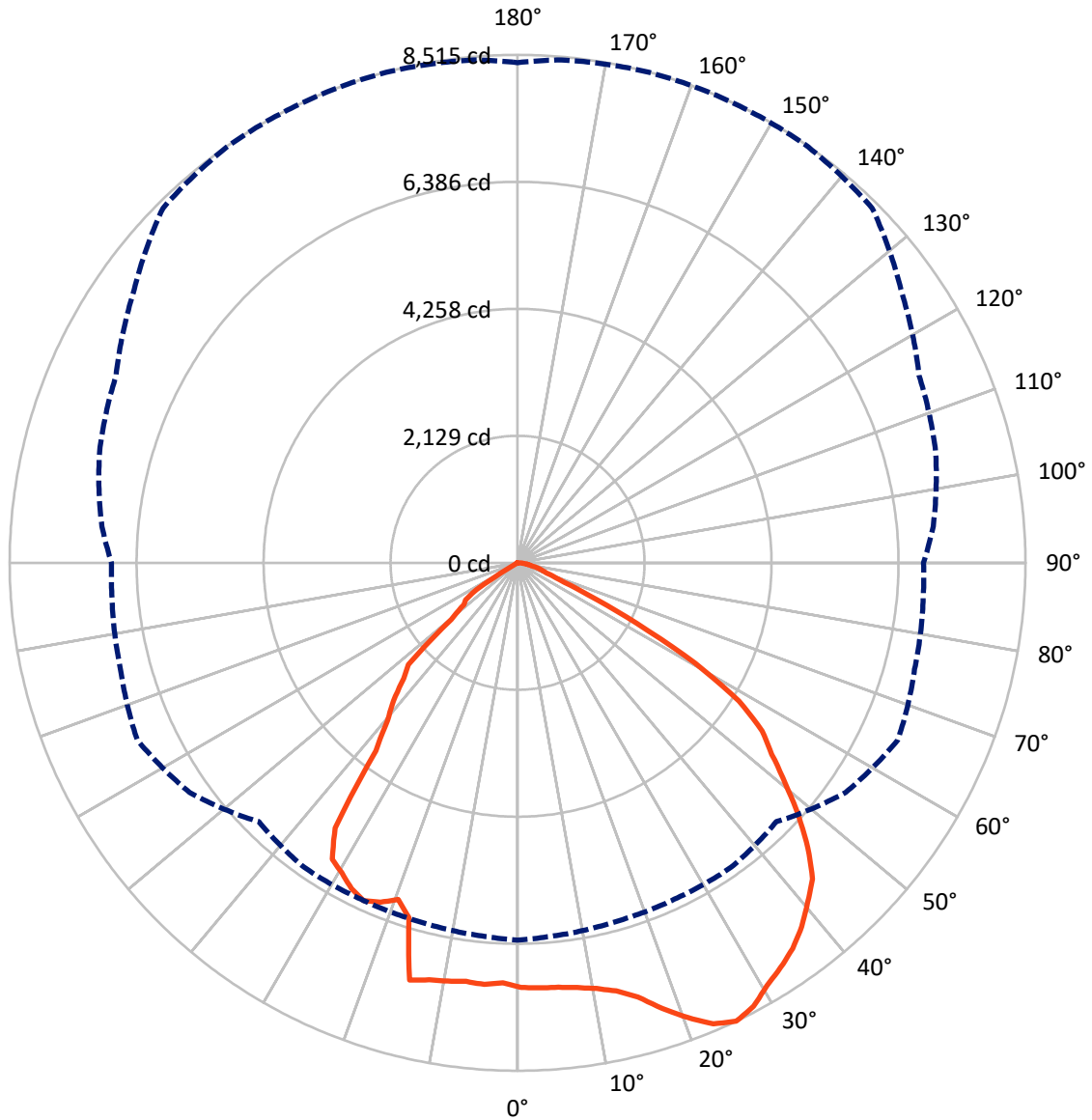
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.8 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	10213.7	0.0	10213.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6283.9	0.0	6283.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	16497.6	0.0	16497.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	4.1
10°-20°	2085.3	12.6
20°-30°	3296.7	20.0
30°-40°	3723.9	22.6
40°-50°	3487.5	21.1
50°-60°	2404.4	14.6
60°-70°	646.0	3.9
70°-80°	134.6	0.8
80°-90°	36.4	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°	16497.6	100.0
0°-180°	16497.6	100.0

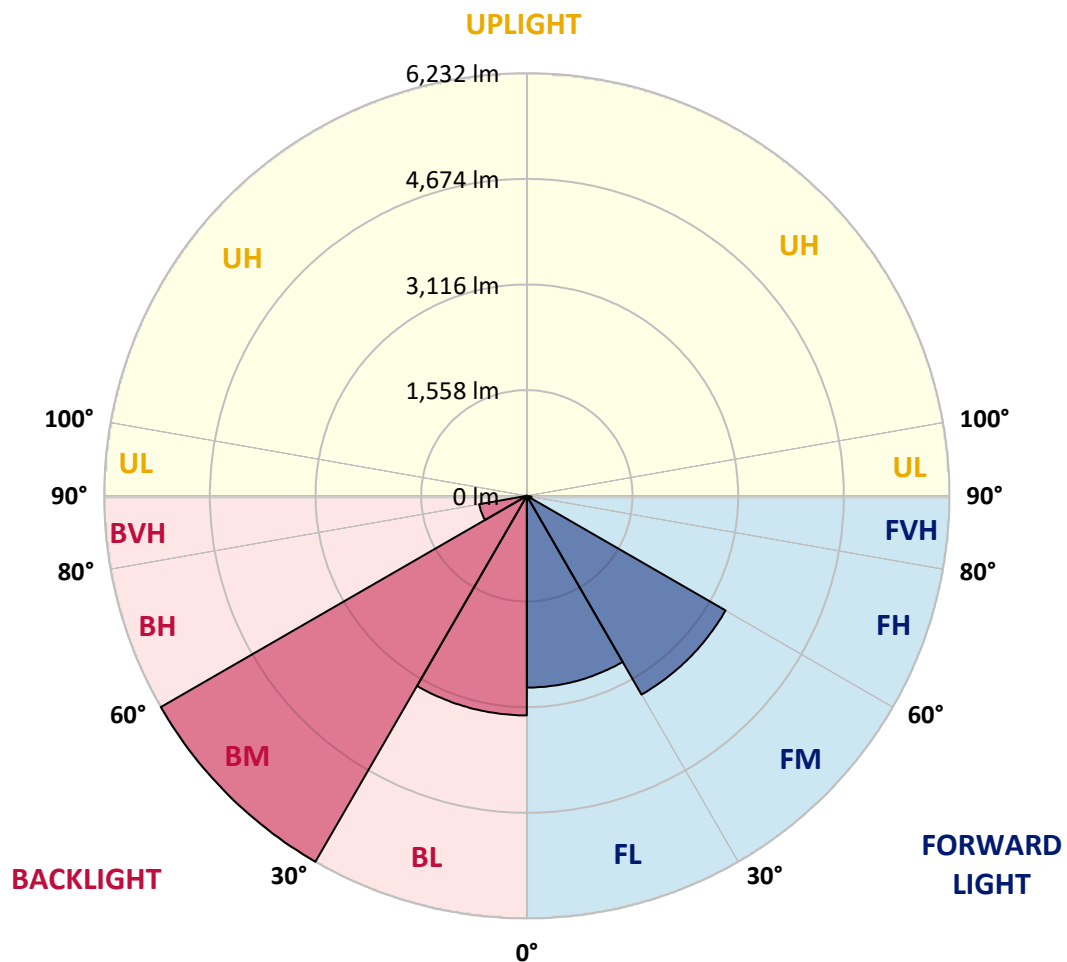


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.2	17.1			
FM (30°-60°)	3384.0	20.5			
FH (60°-80°)	67.8	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3237.7	19.6	B4/5000		
BM (30°-60°)	6231.7	37.8	B4/8500		
BH (60°-80°)	712.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.5	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°	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5
2.5°	7150.0	7103.9	7060.3	7045.7	7106.3	7171.8	7130.6	7133.0	7118.5	7145.1
5°	7203.3	7140.3	7111.2	7089.4	7099.1	7166.9	7108.8	7130.6	7106.3	7137.8
7.5°	7183.9	7140.3	7111.2	7070.0	7101.5	7181.5	7125.7	7128.1	7116.0	7145.1
10°	7171.8	7140.3	7103.9	7108.8	7145.1	7213.0	7169.4	7193.6	7176.6	7193.6
12.5°	7200.9	7166.9	7147.5	7147.5	7179.1	7256.6	7234.8	7256.6	7249.4	7263.9
15°	6926.9	6958.4	7142.7	7225.1	7288.2	7365.8	7356.1	7377.9	7382.7	7404.5
17.5°	5843.1	5811.6	5797.1	6221.4	7348.8	7588.8	7581.5	7579.1	7554.9	7537.9
20°	5986.2	5974.1	5957.1	5988.6	6114.7	7705.2	7753.7	7455.5	7368.2	7360.9
22.5°	6214.1	6194.7	6131.7	6134.1	6172.9	6699.0	7513.7	7242.1	7213.0	7196.0
25°	6325.6	6286.8	6235.9	6221.4	6233.5	6136.5	6711.1	7033.6	6890.5	6825.1
27.5°	6129.2	6131.7	6090.4	6129.2	6083.2	5646.8	5401.9	6626.3	6621.4	6592.3
30°	5981.3	5974.1	5925.6	5974.1	5656.5	5169.1	5064.9	6180.2	6129.2	6090.4
32.5°	5528.0	5532.8	5673.4	5862.5	5341.3	4955.8	4640.6	5520.7	6003.2	5981.3
35°	3954.4	3964.1	4463.6	5397.0	4863.6	4531.5	4507.2	4771.5	5804.4	5814.0
37.5°	3806.5	3806.5	3794.4	3947.2	4487.8	4359.3	4407.8	4381.1	5317.0	5341.3
40°	3699.8	3678.0	3661.1	3421.0	3120.4	4238.1	4272.0	4150.8	5026.1	5030.9
42.5°	3571.3	3547.1	3552.0	3108.3	2793.1	3937.5	3842.9	3680.5	4541.2	4546.0
45°	3336.2	3377.4	3406.5	2720.3	2696.1	2812.5	3544.7	3442.8	4213.9	4303.6
47.5°	1697.2	1733.5	2659.7	2502.1	2557.9	2499.7	2994.3	2996.7	3505.9	3804.1
50°	1539.6	1529.9	1532.3	1459.6	2361.5	2022.1	2165.1	2747.0	2807.6	3234.3
52.5°	1435.3	1432.9	1285.0	1142.0	1483.8	1779.6	1571.1	1988.1	2087.5	2739.7
55°	1061.9	1139.5	1013.5	1074.1	928.6	1425.6	1418.4	1794.2	1828.1	2196.6
57.5°	9.7	12.1	29.1	817.1	642.5	712.8	979.5	1224.4	1285.0	1711.7
60°	2.4	4.8	12.1	24.2	417.0	438.8	654.6	708.0	797.7	1020.7
62.5°	0.0	0.0	4.8	12.1	21.8	179.4	208.5	227.9	351.6	521.3
65°	0.0	0.0	2.4	7.3	12.1	29.1	50.9	106.7	152.7	189.1
67.5°	0.0	0.0	2.4	4.8	9.7	14.5	29.1	41.2	65.5	111.5
70°	0.0	0.0	2.4	4.8	7.3	12.1	19.4	29.1	38.8	55.8
72.5°	0.0	0.0	2.4	4.8	4.8	14.5	14.5	21.8	29.1	36.4
75°	0.0	0.0	2.4	2.4	4.8	9.7	14.5	17.0	19.4	29.1
77.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	19.4	17.0	17.0
80°	0.0	0.0	2.4	7.3	7.3	12.1	14.5	19.4	12.1	12.1
82.5°	0.0	0.0	2.4	9.7	7.3	24.2	24.2	26.7	9.7	9.7
85°	0.0	0.0	7.3	4.8	14.5	24.2	21.8	14.5	12.1	7.3
87.5°	0.0	0.0	2.4	2.4	4.8	7.3	17.0	14.5	4.8	4.8
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°
7118.5	0°	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5	7118.5
7074.8	2.5°	7171.8	7140.3	7205.7	7198.5	7166.9	7152.4	7135.4	7120.9	7014.2
7079.7	5°	7174.2	7125.7	7205.7	7191.2	7186.3	7162.1	7147.5	7169.4	7072.4
7099.1	7.5°	7174.2	7125.7	7213.0	7217.9	7210.6	7191.2	7188.8	7203.3	7123.3
7133.0	10°	7222.7	7203.3	7276.0	7283.3	7273.6	7268.8	7256.6	7247.0	7162.1
7249.4	12.5°	7324.5	7285.7	7368.2	7390.0	7382.7	7394.8	7365.8	7380.3	7293.0
7368.2	15°	7448.2	7450.6	7513.7	7562.1	7557.3	7596.1	7552.4	7591.2	7528.2
7504.0	17.5°	7637.3	7664.0	7753.7	7826.4	7853.1	7882.2	7853.1	7865.2	7775.5
7353.6	20°	7438.5	7537.9	7969.5	8102.8	8158.6	8185.2	8136.8	8151.3	8061.6
7169.4	22.5°	7259.1	7387.6	7770.7	8187.7	8359.8	8413.2	8396.2	8393.8	8359.8
6805.7	25°	6994.8	7254.2	7426.4	7867.6	8408.3	8505.3	8515.0	8512.6	8461.6
6582.6	27.5°	6669.9	6728.1	7174.2	7443.3	8068.9	8437.4	8422.9	8352.5	8284.7
6119.5	30°	6255.3	6519.6	6720.8	7150.0	7630.0	8228.9	8228.9	8175.6	8105.2
5954.7	32.5°	6044.4	6386.2	6572.9	6728.1	7137.8	7996.1	8093.1	8037.4	7981.6
5826.2	35°	5932.9	5983.8	6420.2	6560.8	6907.5	7547.6	7940.4	7884.6	7843.4
5484.3	37.5°	5688.0	5806.8	6010.4	6386.2	6492.9	7181.5	7736.7	7707.6	7659.1
5040.6	40°	5142.5	5460.1	5772.8	6129.2	6240.8	6711.1	7489.4	7501.5	7436.1
4567.8	42.5°	4820.0	5035.8	5525.5	5765.6	6066.2	6408.1	7249.4	7268.8	7222.7
4327.8	45°	4441.8	4681.8	5026.1	5462.5	5872.2	5991.0	6825.1	7028.7	6990.0
3850.2	47.5°	4095.0	4289.0	4710.9	5152.1	5605.5	5588.6	6337.7	6720.8	6667.5
3484.1	50°	3602.9	3942.3	4141.1	4546.0	5222.5	5268.5	5818.9	6359.6	6315.9
2960.4	52.5°	3037.9	3464.7	3845.3	4216.3	4834.5	4943.6	5336.4	5991.0	5961.9
2262.1	55°	2654.9	2965.2	3394.4	3692.6	4364.2	4655.1	4975.2	5639.5	5624.9
1859.6	57.5°	1888.7	2487.6	2841.6	3258.6	3612.6	4138.7	4376.3	4924.2	4788.5
1030.4	60°	1280.2	1561.4	1993.0	2441.5	2679.1	3205.2	3425.9	3864.7	3828.3
615.8	62.5°	676.4	935.9	1243.8	1469.3	1641.4	2153.0	2245.1	2717.9	2705.8
247.3	65°	298.2	395.2	674.0	790.4	967.4	1205.0	1285.0	1454.7	1413.5
121.2	67.5°	155.2	235.2	380.7	467.9	589.2	678.9	744.3	797.7	831.6
80.0	70°	94.6	172.1	235.2	324.9	404.9	477.6	528.5	601.3	644.9
41.2	72.5°	70.3	109.1	162.4	249.7	293.4	378.2	429.1	482.5	521.3
33.9	75°	38.8	72.7	130.9	196.4	235.2	307.9	354.0	390.4	402.5
19.4	77.5°	24.2	55.8	109.1	152.7	184.3	249.7	237.6	271.5	300.6
14.5	80°	17.0	41.2	84.9	126.1	128.5	160.0	189.1	218.2	237.6
9.7	82.5°	12.1	33.9	63.0	97.0	84.9	123.7	147.9	169.7	123.7
7.3	85°	9.7	24.2	31.5	58.2	48.5	87.3	75.2	72.7	48.5
4.8	87.5°	7.3	12.1	21.8	26.7	19.4	19.4	24.2	29.1	24.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7118.5
6941.5
6990.0
7031.2
7091.8
7215.4
7423.9
7697.9
7998.6
8250.7
8384.1
8231.3
8078.6
7935.5
7785.2
7610.6
7421.5
7217.9
6994.8
6706.3
6323.2
5981.3
5641.9
4773.9
3830.8
2708.2
1396.5
831.6
647.4
528.5
395.2
305.5
240.0
89.7
48.5
24.2
0.0

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