

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: P638841

Luminaire Tested: **EPH-VN-04-E-735-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638841
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-735-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25424.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

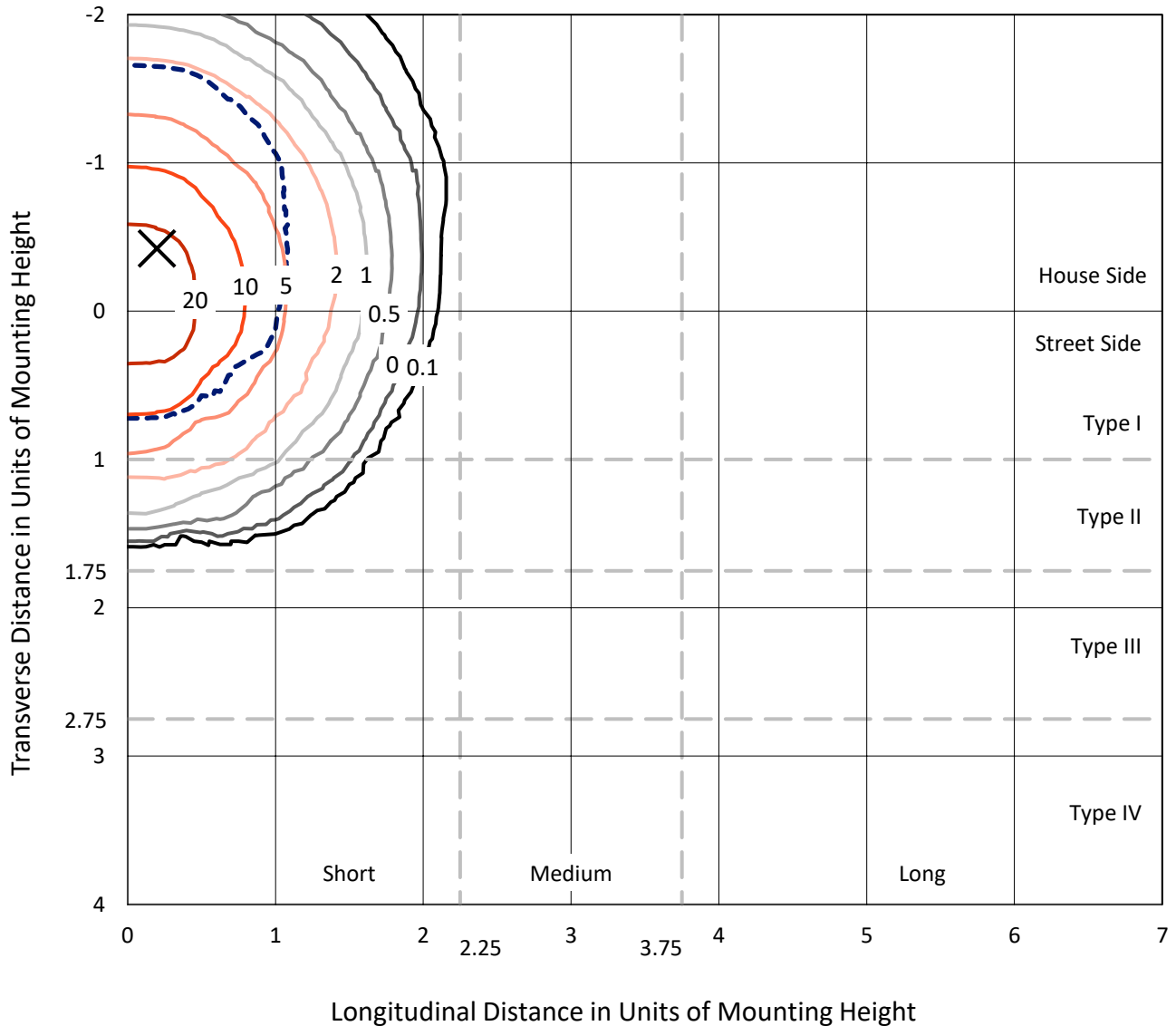
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

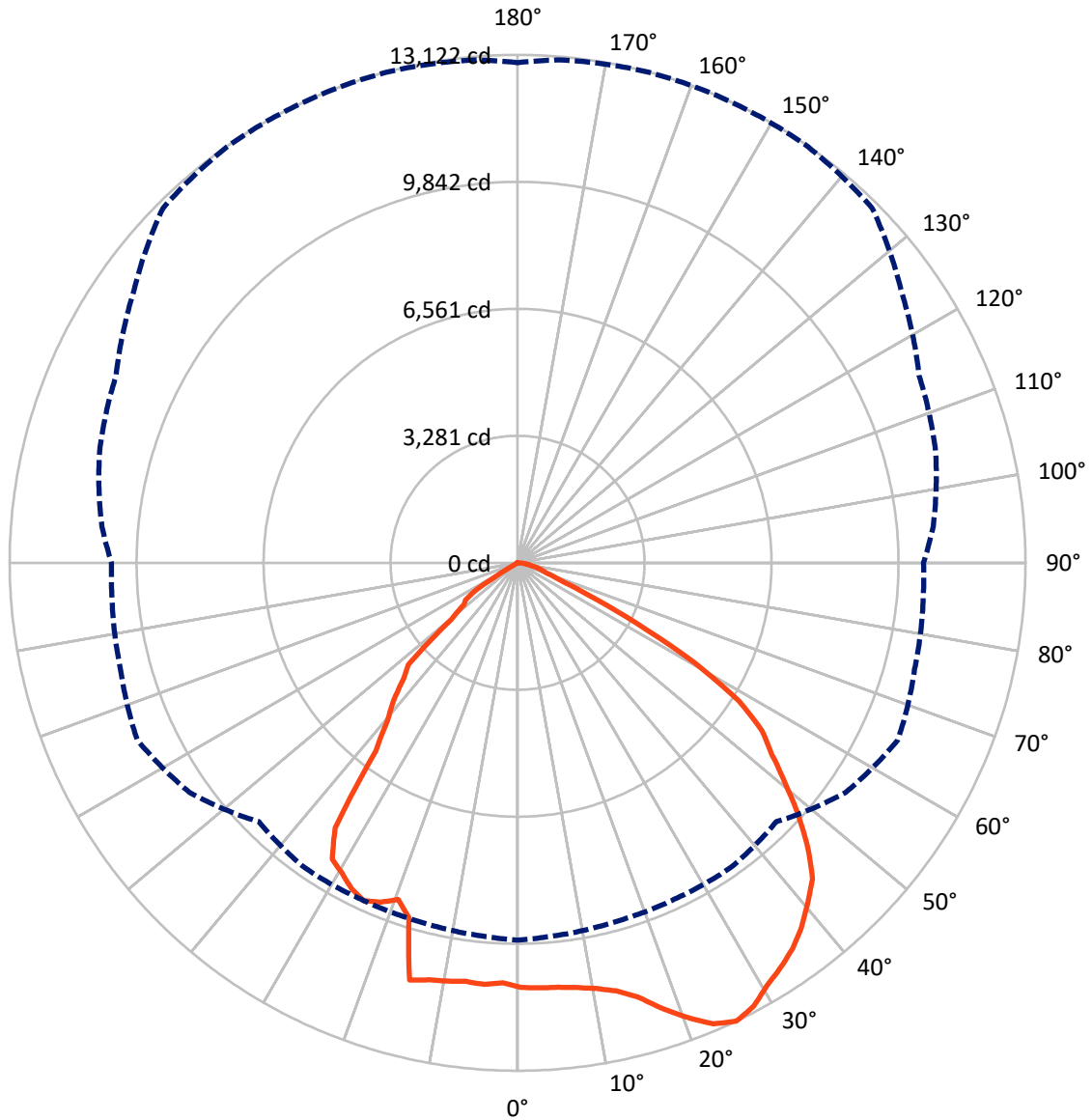
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.4 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	15740.4	0.0	15740.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9684.1	0.0	9684.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	25424.5	0.0	25424.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.4	4.1
10°-20°	3213.6	12.6
20°-30°	5080.5	20.0
30°-40°	5738.9	22.6
40°-50°	5374.6	21.1
50°-60°	3705.4	14.6
60°-70°	995.5	3.9
70°-80°	207.5	0.8
80°-90°	56.1	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°	25424.5	100.0
0°-180°	25424.5	100.0

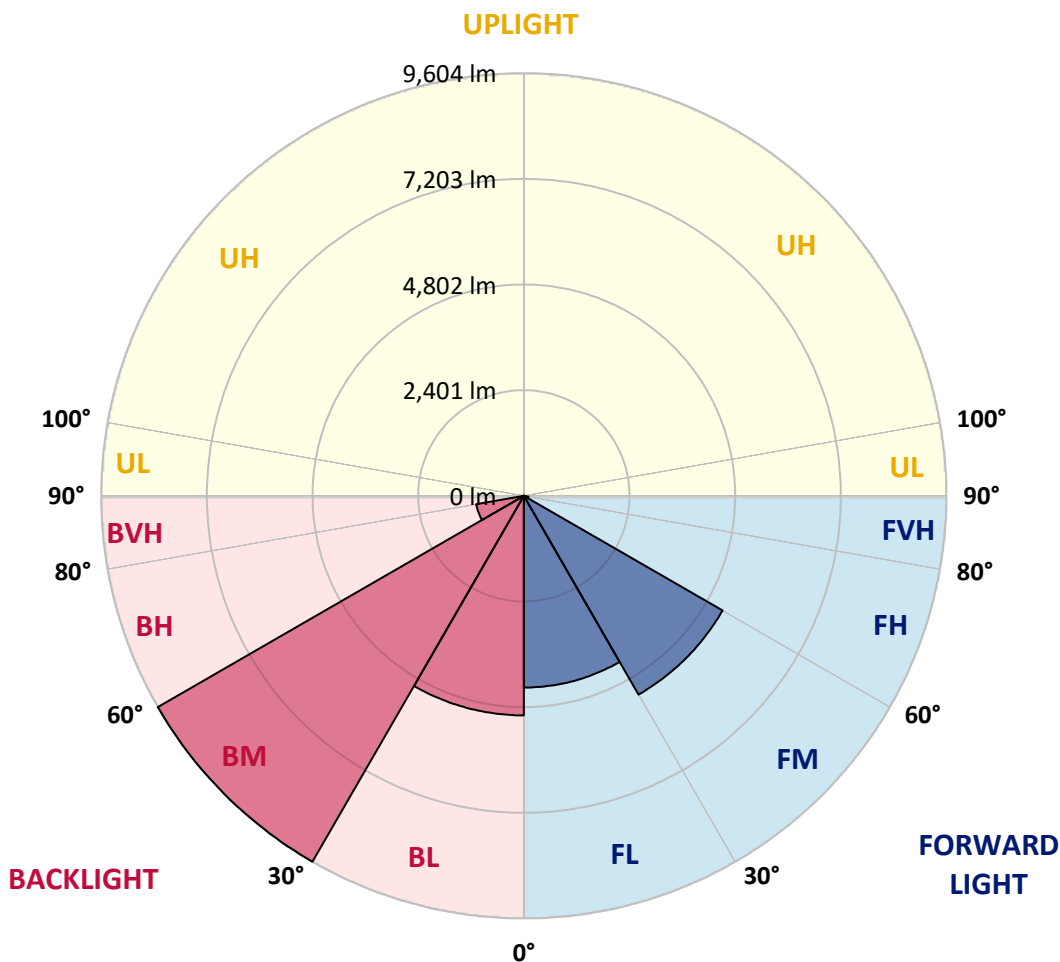


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4356.9	17.1			
FM (30°-60°)	5215.1	20.5			
FH (60°-80°)	104.5	0.4			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	4989.6	19.6	B4/5000		
BM (30°-60°)	9603.7	37.8	B5		
BH (60°-80°)	1098.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	48.6	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°	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2
2.5°	11018.8	10947.8	10880.5	10858.1	10951.5	11052.4	10988.9	10992.6	10970.2	11011.3
5°	11101.0	11003.8	10959.0	10925.4	10940.3	11044.9	10955.3	10988.9	10951.5	11000.1
7.5°	11071.1	11003.8	10959.0	10895.5	10944.0	11067.3	10981.4	10985.1	10966.5	11011.3
10°	11052.4	11003.8	10947.8	10955.3	11011.3	11115.9	11048.7	11086.0	11059.9	11086.0
12.5°	11097.2	11044.9	11015.0	11015.0	11063.6	11183.2	11149.5	11183.2	11172.0	11194.4
15°	10675.0	10723.6	11007.6	11134.6	11231.8	11351.3	11336.4	11370.0	11377.5	11411.1
17.5°	9004.8	8956.3	8933.8	9587.7	11325.2	11695.1	11683.9	11680.1	11642.8	11616.6
20°	9225.3	9206.6	9180.4	9229.0	9423.3	11874.4	11949.1	11489.6	11355.1	11343.8
22.5°	9576.5	9546.6	9449.5	9453.2	9513.0	10323.8	11579.2	11160.8	11115.9	11089.8
25°	9748.4	9688.6	9610.1	9587.7	9606.4	9456.9	10342.5	10839.4	10619.0	10518.1
27.5°	9445.7	9449.5	9385.9	9445.7	9374.7	8702.2	8324.8	10211.7	10204.2	10159.4
30°	9217.8	9206.6	9131.9	9206.6	8717.1	7966.1	7805.4	9524.2	9445.7	9385.9
32.5°	8519.1	8526.6	8743.3	9034.7	8231.4	7637.3	7151.6	8507.9	9251.4	9217.8
35°	6094.1	6109.1	6878.8	8317.3	7495.3	6983.4	6946.0	7353.3	8945.0	8960.0
37.5°	5866.2	5866.2	5847.5	6082.9	6916.2	6718.1	6792.9	6751.8	8194.0	8231.4
40°	5701.8	5668.2	5642.0	5272.1	4808.8	6531.3	6583.6	6396.8	7745.6	7753.1
42.5°	5503.8	5466.4	5473.9	4790.1	4304.4	6068.0	5922.3	5671.9	6998.4	7005.8
45°	5141.3	5204.9	5249.7	4192.3	4154.9	4334.3	5462.7	5305.8	6493.9	6632.2
47.5°	2615.5	2671.6	4098.9	3856.0	3941.9	3852.3	4614.5	4618.2	5402.9	5862.5
50°	2372.6	2357.7	2361.4	2249.3	3639.3	3116.2	3336.6	4233.4	4326.8	4984.4
52.5°	2212.0	2208.2	1980.3	1759.9	2286.7	2742.6	2421.2	3063.9	3217.1	4222.2
55°	1636.6	1756.1	1561.8	1655.2	1431.1	2197.0	2185.8	2765.0	2817.3	3385.2
57.5°	14.9	18.7	44.8	1259.2	990.2	1098.5	1509.5	1886.9	1980.3	2637.9
60°	3.7	7.5	18.7	37.4	642.7	676.3	1008.8	1091.0	1229.3	1573.0
62.5°	0.0	0.0	7.5	18.7	33.6	276.5	321.3	351.2	541.8	803.3
65°	0.0	0.0	3.7	11.2	18.7	44.8	78.5	164.4	235.4	291.4
67.5°	0.0	0.0	3.7	7.5	14.9	22.4	44.8	63.5	100.9	171.9
70°	0.0	0.0	3.7	7.5	11.2	18.7	29.9	44.8	59.8	85.9
72.5°	0.0	0.0	3.7	7.5	7.5	22.4	22.4	33.6	44.8	56.0
75°	0.0	0.0	3.7	3.7	7.5	14.9	22.4	26.2	29.9	44.8
77.5°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	29.9	26.2	26.2
80°	0.0	0.0	3.7	11.2	11.2	18.7	22.4	29.9	18.7	18.7
82.5°	0.0	0.0	3.7	14.9	11.2	37.4	37.4	41.1	14.9	14.9
85°	0.0	0.0	11.2	7.5	22.4	37.4	33.6	22.4	18.7	11.2
87.5°	0.0	0.0	3.7	3.7	7.5	11.2	26.2	22.4	7.5	7.5
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°
10970.2	0°	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2	10970.2
10902.9	2.5°	11052.4	11003.8	11104.7	11093.5	11044.9	11022.5	10996.4	10973.9	10809.5
10910.4	5°	11056.1	10981.4	11104.7	11082.3	11074.8	11037.5	11015.0	11048.7	10899.2
10940.3	7.5°	11056.1	10981.4	11115.9	11123.4	11112.2	11082.3	11078.6	11101.0	10977.7
10992.6	10°	11130.9	11101.0	11213.1	11224.3	11209.3	11201.9	11183.2	11168.2	11037.5
11172.0	12.5°	11287.8	11228.0	11355.1	11388.7	11377.5	11396.2	11351.3	11373.7	11239.2
11355.1	15°	11478.4	11482.1	11579.2	11654.0	11646.5	11706.3	11639.0	11698.8	11601.7
11564.3	17.5°	11769.8	11810.9	11949.1	12061.2	12102.3	12147.2	12102.3	12121.0	11982.8
11332.6	20°	11463.4	11616.6	12281.7	12487.2	12573.1	12614.2	12539.5	12561.9	12423.7
11048.7	22.5°	11186.9	11384.9	11975.3	12618.0	12883.3	12965.5	12939.3	12935.6	12883.3
10488.2	25°	10779.6	11179.4	11444.7	12124.8	12958.0	13107.4	13122.4	13118.7	13040.2
10144.4	27.5°	10279.0	10368.6	11056.1	11470.9	12434.9	13002.8	12980.4	12872.1	12767.4
9430.8	30°	9640.0	10047.3	10357.4	11018.8	11758.6	12681.5	12681.5	12599.3	12490.9
9176.7	32.5°	9315.0	9841.8	10129.5	10368.6	11000.1	12322.8	12472.3	12386.3	12300.4
8978.7	35°	9143.1	9221.5	9894.1	10110.8	10645.1	11631.6	12236.9	12150.9	12087.4
8451.8	37.5°	8765.7	8948.8	9262.6	9841.8	10006.2	11067.3	11923.0	11878.2	11803.4
7768.1	40°	7925.0	8414.5	8896.5	9445.7	9617.6	10342.5	11541.9	11560.6	11459.7
7039.5	42.5°	7428.1	7760.6	8515.4	8885.3	9348.6	9875.4	11172.0	11201.9	11130.9
6669.6	45°	6845.2	7215.1	7745.6	8418.2	9049.7	9232.8	10518.1	10832.0	10772.2
5933.5	47.5°	6310.9	6609.8	7259.9	7939.9	8638.7	8612.5	9767.1	10357.4	10275.2
5369.3	50°	5552.4	6075.5	6381.8	7005.8	8048.3	8119.3	8967.5	9800.7	9733.4
4562.2	52.5°	4681.8	5339.4	5926.0	6497.7	7450.5	7618.6	8223.9	9232.8	9187.9
3486.1	55°	4091.4	4569.7	5231.0	5690.6	6725.6	7174.0	7667.2	8691.0	8668.6
2865.9	57.5°	2910.7	3833.6	4379.1	5021.8	5567.3	6378.1	6744.3	7588.7	7379.5
1588.0	60°	1972.8	2406.3	3071.4	3762.6	4128.8	4939.6	5279.6	5955.9	5899.8
949.1	62.5°	1042.5	1442.3	1916.8	2264.3	2529.6	3318.0	3459.9	4188.6	4169.9
381.1	65°	459.6	609.0	1038.7	1218.1	1490.8	1857.0	1980.3	2241.9	2178.3
186.8	67.5°	239.1	362.4	586.6	721.1	908.0	1046.2	1147.1	1229.3	1281.6
123.3	70°	145.7	265.3	362.4	500.7	624.0	736.1	814.5	926.6	993.9
63.5	72.5°	108.4	168.1	250.3	384.9	452.1	582.9	661.4	743.6	803.3
52.3	75°	59.8	112.1	201.8	302.7	362.4	474.5	545.5	601.6	620.2
29.9	77.5°	37.4	85.9	168.1	235.4	284.0	384.9	366.2	418.5	463.3
22.4	80°	26.2	63.5	130.8	194.3	198.0	246.6	291.4	336.3	366.2
14.9	82.5°	18.7	52.3	97.1	149.5	130.8	190.6	227.9	261.6	190.6
11.2	85°	14.9	37.4	48.6	89.7	74.7	134.5	115.8	112.1	74.7
7.5	87.5°	11.2	18.7	33.6	41.1	29.9	29.9	37.4	44.8	37.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10970.2
10697.4
10772.2
10835.7
10929.1
11119.7
11441.0
11863.2
12326.5
12715.1
12920.6
12685.2
12449.8
12229.4
11997.7
11728.7
11437.3
11123.4
10779.6
10335.0
9744.6
9217.8
8694.7
7357.1
5903.6
4173.6
2152.2
1281.6
997.6
814.5
609.0
470.8
369.9
138.2
74.7
37.4
0.0

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