

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: P638793

Luminaire Tested: **EPH-VN-04-E-740-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-E-740-U-77-VI
Description: EPHEBUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26902 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

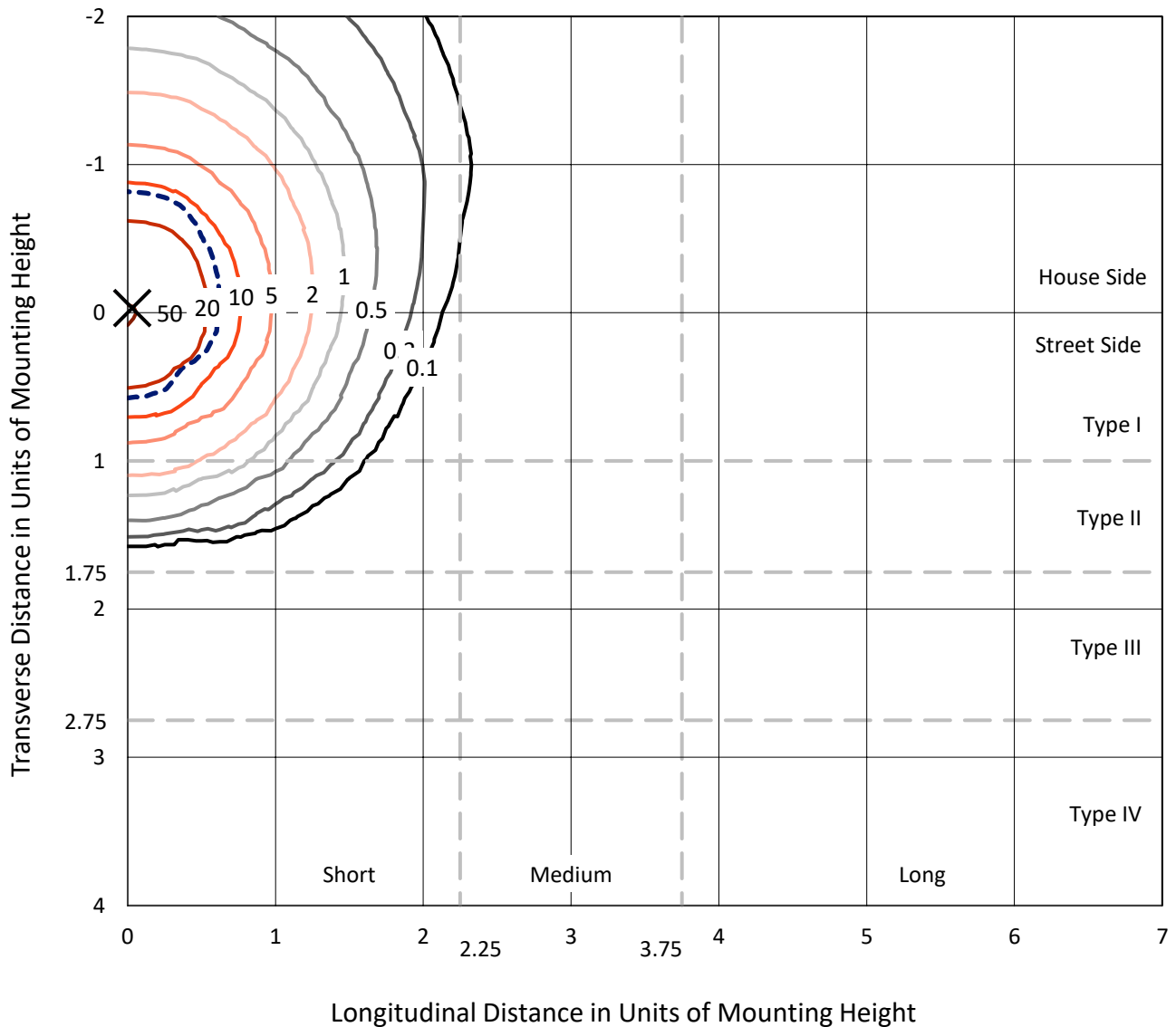
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

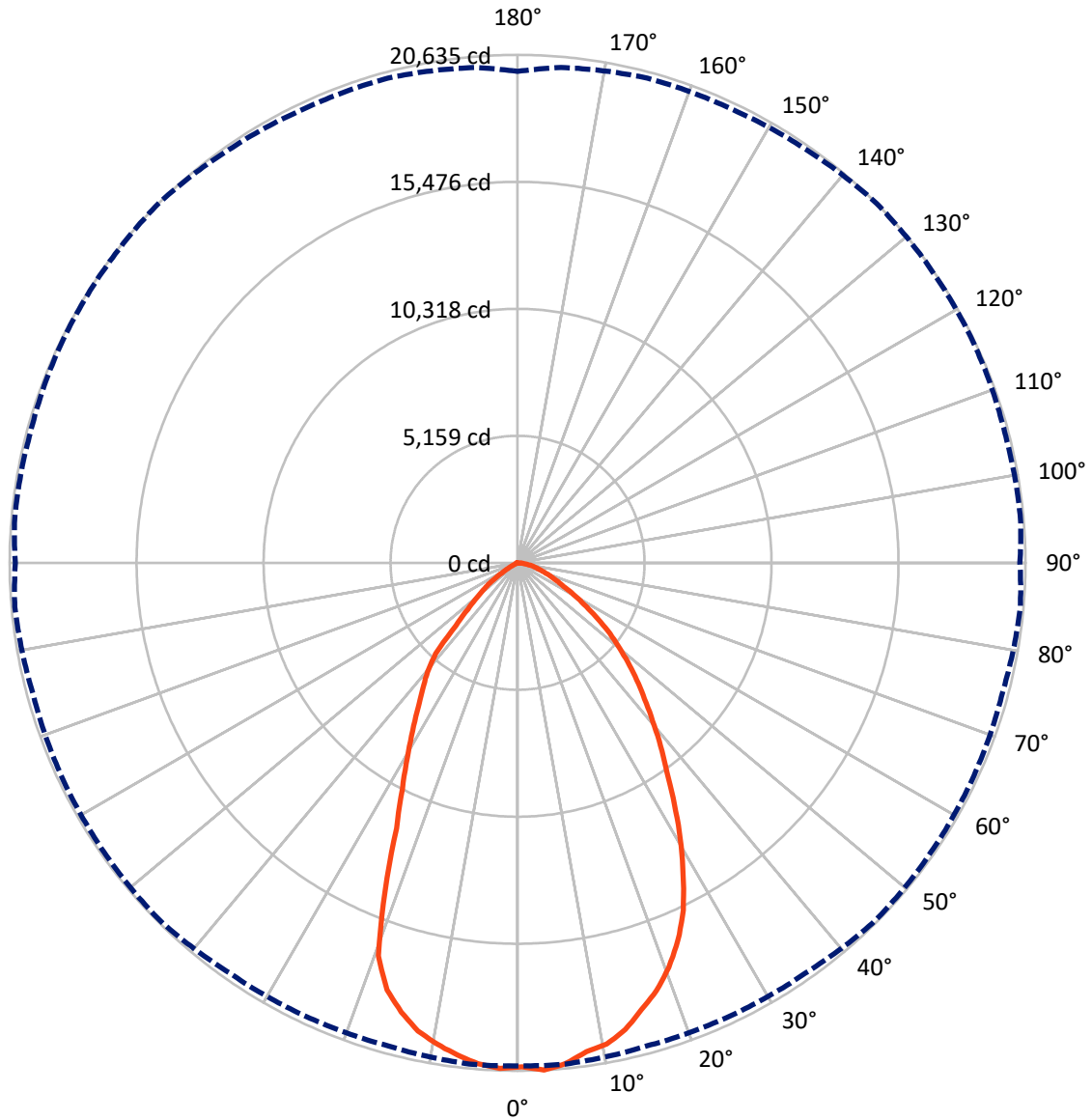
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15932.7	0.0	15932.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10969.3	0.0	10969.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	26902.0	0.0	26902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1920.0	7.1
10°-20°	5148.5	19.1
20°-30°	6278.9	23.3
30°-40°	5732.6	21.3
40°-50°	4142.8	15.4
50°-60°	2262.0	8.4
60°-70°	935.3	3.5
70°-80°	378.8	1.4
80°-90°	103.0	0.4
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°	26902.0	100.0
0°-180°	26902.0	100.0

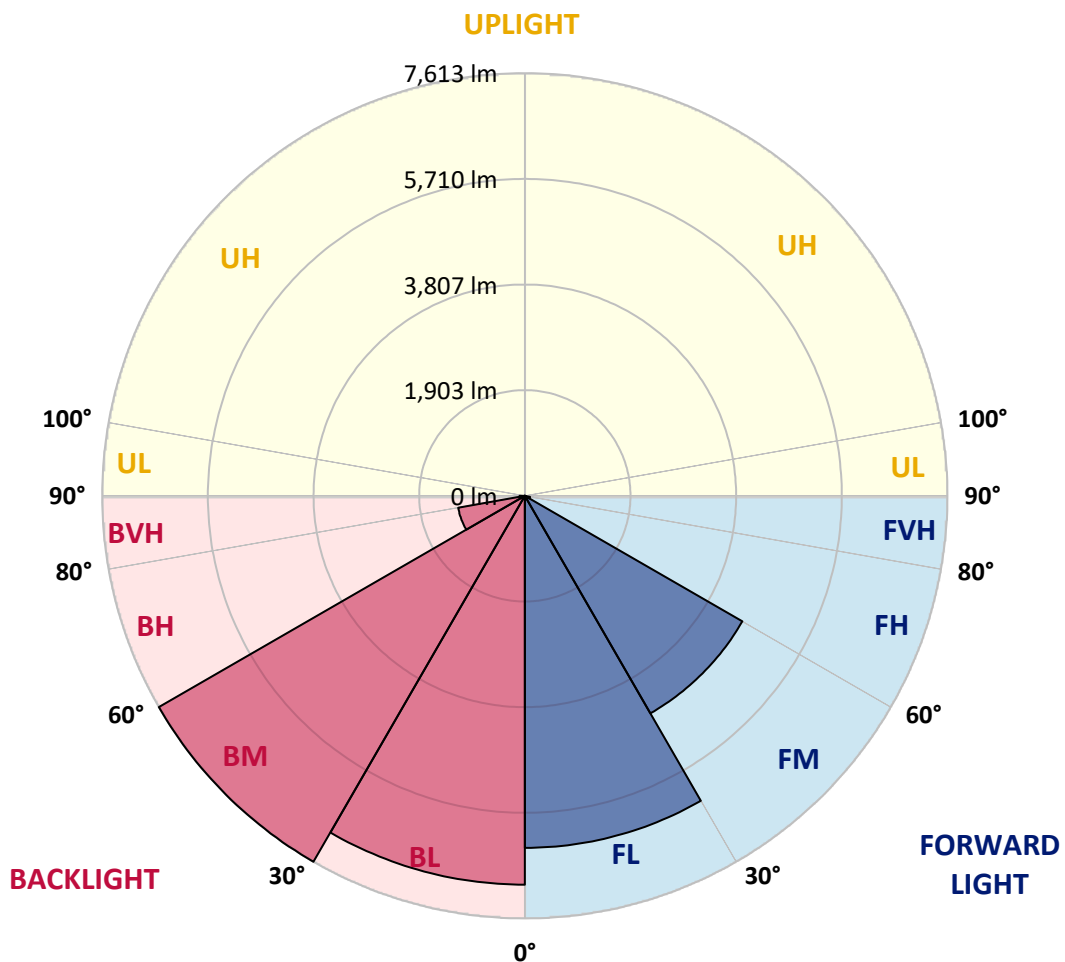


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6341.8	23.6			
FM (30°-60°)	4524.4	16.8			
FH (60°-80°)	94.8	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7005.7	26.0	B5		
BM (30°-60°)	7613.0	28.3	B4/8500		
BH (60°-80°)	1219.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.4			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°	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3
2.5°	20434.4	20460.9	20317.0	20332.1	20358.7	20551.9	20502.6	20457.2	20392.8	20502.6
5°	20407.9	20423.1	20271.5	20218.5	20241.2	20415.5	20256.4	20256.4	20241.2	20222.3
7.5°	20203.3	20210.9	20093.5	19998.8	20059.4	20138.9	20021.5	20078.3	19995.0	20059.4
10°	19896.5	19847.2	19707.1	19680.5	19748.7	19824.5	19744.9	19798.0	19722.2	19771.5
12.5°	19445.7	19369.9	19256.2	19222.2	19339.6	19441.9	19377.5	19347.2	19248.7	19369.9
15°	17706.8	17650.0	17907.6	18358.4	18763.8	18850.9	18782.7	18813.0	18608.4	18642.5
17.5°	14573.8	14467.8	14744.3	15812.6	17335.5	18138.7	18078.1	17881.1	17578.0	17646.2
20°	13244.1	13213.8	13183.5	13437.3	14501.9	16937.8	17021.1	16521.1	16089.2	15994.5
22.5°	12494.0	12482.7	12452.3	12509.2	12789.5	14354.1	15308.8	14846.6	14558.7	14532.2
25°	11808.3	11789.4	11698.5	11770.4	11770.4	11861.4	13085.0	13365.3	13111.5	13081.2
27.5°	11111.3	11077.2	11062.0	11096.1	10921.8	10308.1	10618.8	11986.4	11853.8	11861.4
30°	10357.4	10346.0	10304.3	10376.3	9838.4	9076.9	8879.9	10736.2	10762.7	10755.2
32.5°	9236.0	9285.3	9474.7	9554.3	8667.8	8038.9	7709.3	9289.1	9830.8	9819.4
35°	6709.2	6709.2	7326.7	8474.6	7595.7	7122.1	6944.1	7876.0	8910.2	8948.1
37.5°	5515.9	5534.8	5656.0	6178.8	6553.9	6387.2	6334.1	6629.6	7728.3	7788.9
40°	4962.8	4962.8	4962.8	4746.8	4735.5	5754.5	5724.2	5629.5	6675.1	6807.7
42.5°	4458.9	4470.3	4477.8	3932.3	3629.3	4974.1	4905.9	4762.0	5731.8	5887.1
45°	3939.9	3958.8	3981.6	3288.3	3155.7	3580.0	4152.0	3992.9	4799.9	5000.6
47.5°	2405.6	2435.9	2951.1	2788.2	2803.4	2761.7	3386.8	3360.3	3936.1	4220.2
50°	1625.2	1636.6	1685.8	1769.2	2405.6	2170.7	2398.0	2780.7	2989.0	3420.9
52.5°	1363.8	1382.8	1261.5	1147.9	1579.7	1697.2	1674.5	2064.7	2148.0	2682.2
55°	958.5	1019.1	962.2	950.9	897.8	1318.4	1269.1	1587.3	1640.4	2038.1
57.5°	98.5	113.7	197.0	708.4	587.2	746.3	905.4	1163.0	1216.1	1504.0
60°	7.6	7.6	18.9	98.5	428.1	447.0	625.1	716.0	818.3	1049.4
62.5°	0.0	3.8	7.6	15.2	68.2	238.7	314.4	375.0	492.5	678.1
65°	0.0	0.0	3.8	11.4	15.2	90.9	121.2	197.0	269.0	420.5
67.5°	0.0	0.0	3.8	7.6	11.4	22.7	41.7	72.0	144.0	238.7
70°	0.0	0.0	3.8	7.6	11.4	18.9	30.3	45.5	64.4	128.8
72.5°	0.0	0.0	3.8	3.8	7.6	18.9	22.7	30.3	45.5	64.4
75°	0.0	0.0	3.8	3.8	11.4	22.7	18.9	22.7	30.3	41.7
77.5°	0.0	0.0	3.8	7.6	11.4	22.7	18.9	22.7	22.7	26.5
80°	0.0	0.0	3.8	7.6	15.2	26.5	22.7	22.7	18.9	18.9
82.5°	0.0	0.0	3.8	11.4	15.2	34.1	34.1	30.3	15.2	11.4
85°	0.0	0.0	7.6	15.2	22.7	37.9	37.9	30.3	11.4	7.6
87.5°	0.0	0.0	7.6	11.4	18.9	26.5	37.9	30.3	11.4	3.8
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°
20472.3	0°	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3	20472.3
20407.9	2.5°	20510.2	20487.5	20563.2	20593.5	20635.2	20476.1	20377.6	20381.4	20199.6
20176.8	5°	20298.0	20301.8	20400.3	20392.8	20434.4	20347.3	20309.4	20245.0	20085.9
19885.1	7.5°	20029.1	19995.0	20089.7	20161.7	20055.6	20116.2	20029.1	20059.4	19964.7
19627.5	10°	19820.7	19741.2	19828.3	19877.5	19881.3	19820.7	19737.4	19657.8	19623.7
19225.9	12.5°	19358.5	19256.2	19404.0	19472.2	19460.8	19343.4	19248.7	19267.6	19157.8
18521.3	15°	18722.1	18725.9	18832.0	18896.4	18835.7	18809.2	18816.8	18771.3	18676.6
17547.7	17.5°	17748.5	17805.3	18085.6	18241.0	18275.1	18222.0	18195.5	18142.5	18047.8
15994.5	20°	16127.1	16468.0	16968.1	17449.2	17543.9	17528.8	17434.0	17411.3	17358.3
14456.4	22.5°	14702.6	14956.5	15536.1	16286.2	16672.6	16710.5	16596.8	16562.7	16505.9
13081.2	25°	13229.0	13501.7	14024.5	14839.0	15638.4	15801.3	15782.3	15680.0	15619.4
11861.4	27.5°	11986.4	12259.1	12732.7	13467.6	14323.8	14846.6	14895.8	14732.9	14729.2
10774.1	30°	10865.0	11240.1	11600.0	12198.5	13028.2	13812.4	13895.7	13782.1	13793.4
9777.8	32.5°	9986.1	10296.8	10603.6	11005.2	11694.7	12607.7	12933.5	12827.4	12785.7
8948.1	35°	9088.3	9300.4	9614.9	9982.3	10452.1	11357.5	11922.0	11842.4	11800.8
7826.8	37.5°	8065.4	8429.1	8656.4	9069.3	9436.8	10156.6	10952.2	10940.8	10853.7
6872.1	40°	7016.0	7398.7	7743.4	8160.1	8444.3	9016.3	9899.0	9895.2	9906.6
5883.3	42.5°	6065.2	6417.5	6834.2	7288.8	7561.6	7978.3	8925.4	8978.4	9042.8
5068.8	45°	5205.2	5523.4	5909.8	6462.9	6792.5	7031.2	7872.2	8114.7	8110.9
4341.5	47.5°	4432.4	4731.7	5057.5	5595.4	6015.9	6231.9	6928.9	7273.7	7250.9
3561.1	50°	3720.2	3985.4	4326.3	4716.5	5281.0	5470.4	5989.4	6444.0	6409.9
2837.5	52.5°	2992.8	3360.3	3648.2	4004.3	4599.1	4784.7	5186.3	5629.5	5603.0
2129.1	55°	2333.6	2689.7	3038.3	3345.1	3845.2	4121.7	4409.7	4864.3	4856.7
1666.9	57.5°	1765.4	2155.6	2485.2	2776.9	3174.6	3515.6	3746.7	4159.6	4212.7
1140.3	60°	1307.0	1606.3	1962.4	2288.2	2602.6	2954.9	3110.2	3515.6	3538.3
780.4	62.5°	890.3	1219.9	1568.4	1863.9	2098.8	2462.4	2602.6	2936.0	2977.7
500.1	65°	617.5	829.7	1227.4	1439.6	1727.5	2038.1	2178.3	2443.5	2526.8
287.9	67.5°	409.1	591.0	958.5	1151.7	1435.8	1647.9	1826.0	2041.9	2132.8
181.8	70°	223.5	435.7	685.7	909.2	1155.5	1360.0	1534.3	1708.6	1788.1
83.3	72.5°	151.5	291.7	477.3	719.8	931.9	1132.7	1288.0	1416.8	1420.6
49.2	75°	75.8	197.0	363.7	556.9	727.4	924.4	1064.5	1140.3	1049.4
30.3	77.5°	45.5	144.0	295.5	447.0	591.0	746.3	825.9	867.5	719.8
22.7	80°	26.5	102.3	231.1	356.1	409.1	549.3	625.1	636.4	481.1
15.2	82.5°	18.9	75.8	181.8	261.4	250.0	386.4	469.8	454.6	306.9
11.4	85°	11.4	53.0	113.7	162.9	151.5	253.8	272.8	280.3	178.1
7.6	87.5°	7.6	30.3	60.6	87.1	72.0	109.9	109.9	132.6	87.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20472.3
19964.7
20048.0
19805.6
19472.2
19063.0
18581.9
18006.1
17237.1
16490.7
15555.0
14721.6
13736.6
12789.5
11743.9
10925.6
9906.6
9008.7
8118.5
7258.5
6440.2
5659.8
4875.6
4189.9
3572.4
2985.2
2507.9
2121.5
1757.8
1386.5
981.2
693.3
450.8
284.1
162.9
75.8
0.0

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