

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: P638781

Luminaire Tested: **EPH-VN-04-E-730-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638781
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-730-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24496.9 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

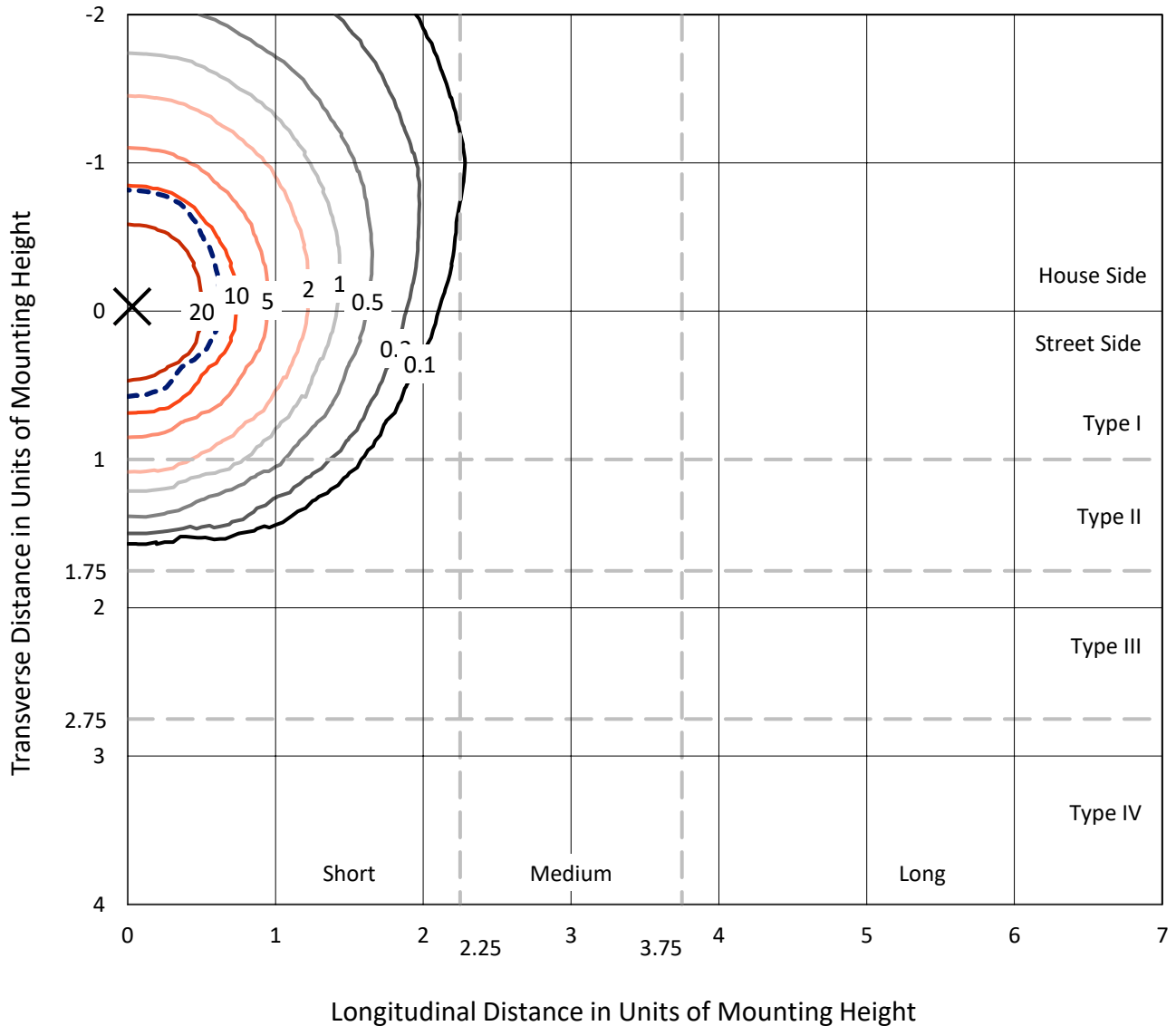
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

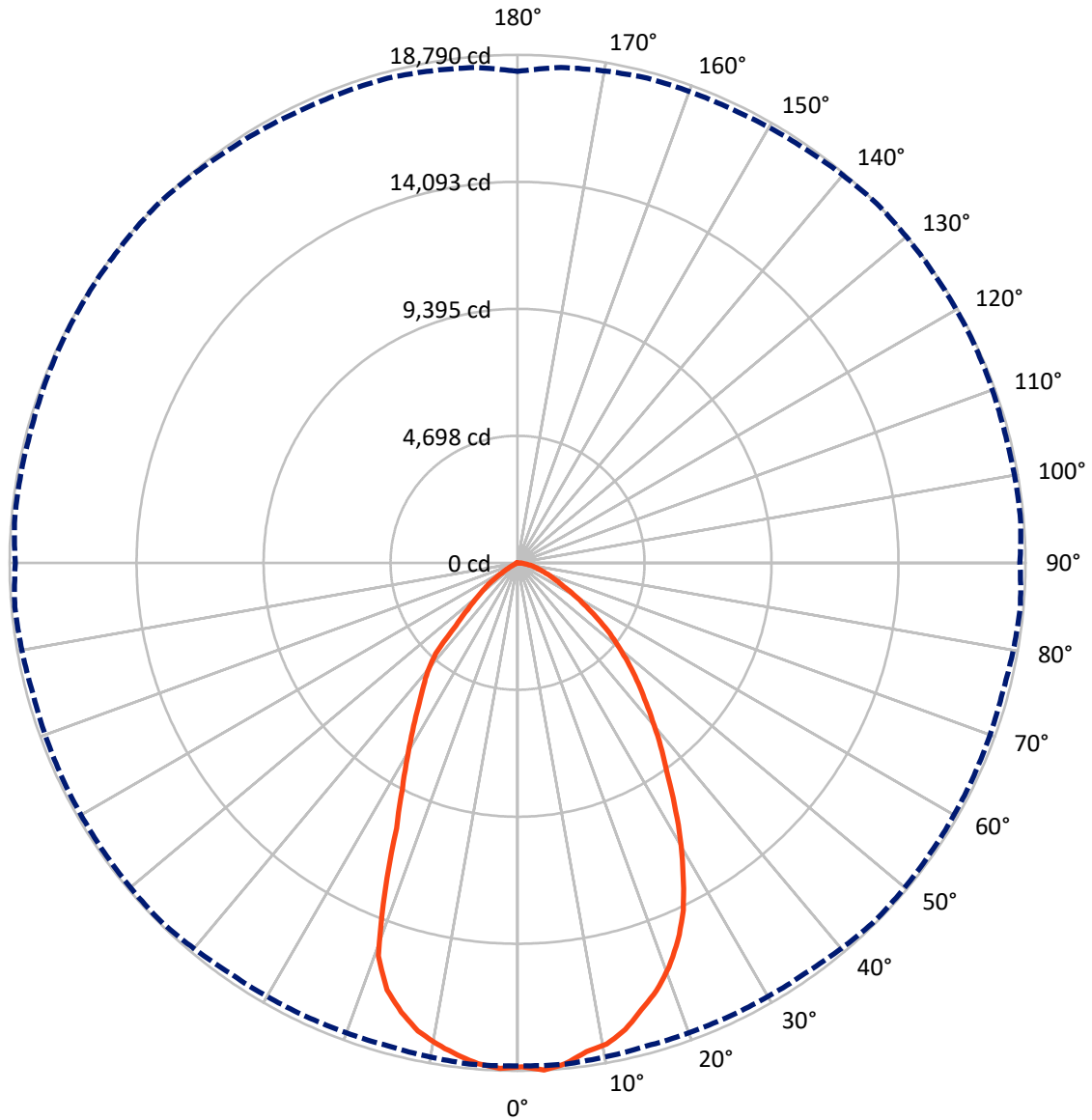
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.6 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	14508.3	0.0	14508.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9988.6	0.0	9988.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	24496.9	0.0	24496.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1748.3	7.1
10°-20°	4688.3	19.1
20°-30°	5717.6	23.3
30°-40°	5220.1	21.3
40°-50°	3772.4	15.4
50°-60°	2059.8	8.4
60°-70°	851.6	3.5
70°-80°	344.9	1.4
80°-90°	93.8	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°	24496.9	100.0
0°-180°	24496.9	100.0

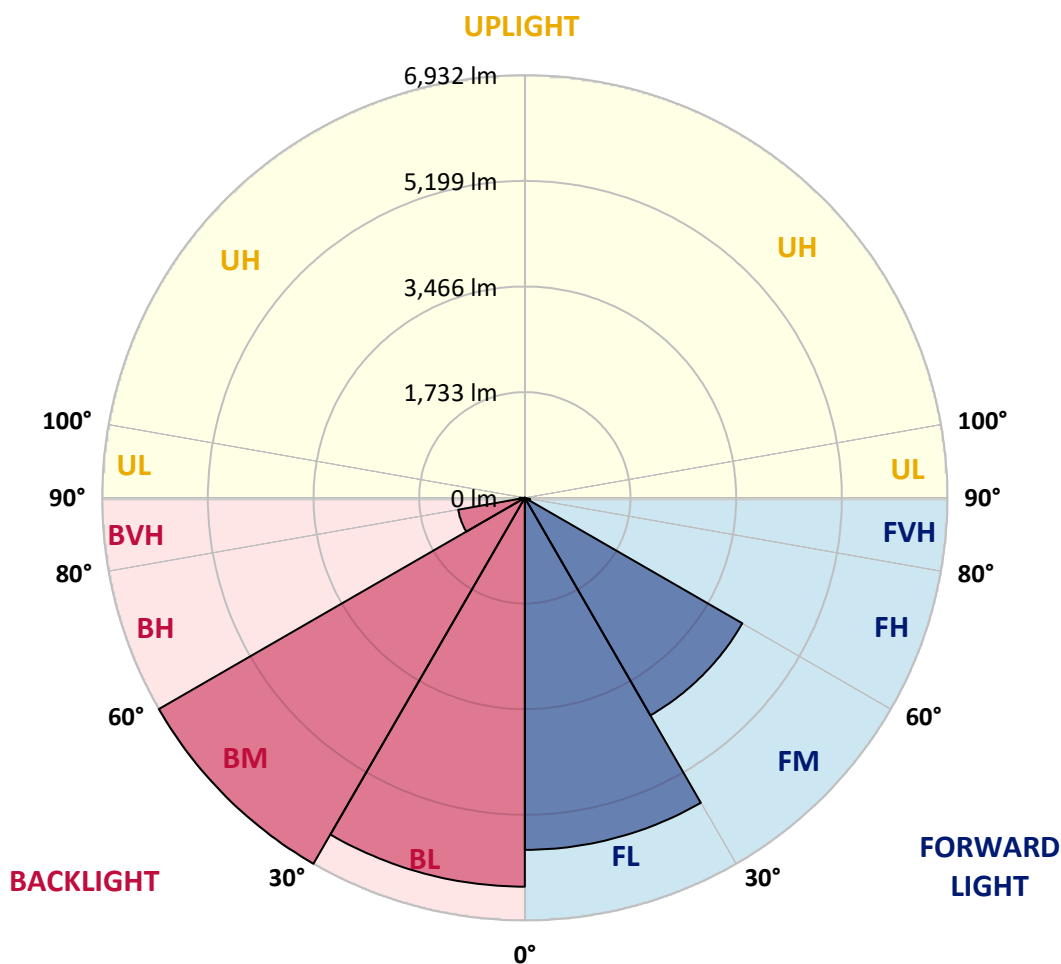


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5774.8	23.6			
FM (30°-60°)	4119.9	16.8			
FH (60°-80°)	86.3	0.4			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	6379.4	26.0	B5		
BM (30°-60°)	6932.4	28.3	B4/8500		
BH (60°-80°)	1110.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.3	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°	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1
2.5°	18607.6	18631.7	18500.7	18514.4	18538.6	18714.5	18669.7	18628.3	18569.6	18669.7
5°	18583.4	18597.2	18459.3	18411.0	18431.7	18590.3	18445.5	18445.5	18431.7	18414.4
7.5°	18397.2	18404.1	18297.1	18210.9	18266.1	18338.5	18231.6	18283.3	18207.4	18266.1
10°	18117.7	18072.9	17945.3	17921.1	17983.2	18052.2	17979.7	18028.0	17959.1	18003.9
12.5°	17707.2	17638.2	17534.7	17503.7	17610.6	17703.8	17645.1	17617.5	17527.8	17638.2
15°	16123.8	16072.1	16306.7	16717.2	17086.3	17165.6	17103.5	17131.1	16944.8	16975.9
17.5°	13270.9	13174.3	13426.2	14399.0	15785.8	16517.1	16461.9	16282.5	16006.5	16068.6
20°	12060.1	12032.5	12004.9	12236.0	13205.4	15423.5	15499.4	15044.1	14650.8	14564.6
22.5°	11377.1	11366.7	11339.1	11390.9	11646.1	13070.8	13940.2	13519.3	13257.1	13233.0
25°	10752.7	10735.4	10652.6	10718.2	10718.2	10801.0	11915.2	12170.5	11939.4	11911.8
27.5°	10117.9	10086.9	10073.1	10104.1	9945.4	9386.6	9669.5	10914.8	10794.1	10801.0
30°	9431.4	9421.1	9383.1	9448.7	8958.8	8265.4	8086.1	9776.4	9800.5	9793.7
32.5°	8410.3	8455.2	8627.7	8700.1	7892.9	7320.2	7020.1	8458.6	8951.9	8941.6
35°	6109.4	6109.4	6671.7	7716.9	6916.6	6485.4	6323.3	7171.9	8113.7	8148.2
37.5°	5022.7	5040.0	5150.4	5626.4	5968.0	5816.2	5767.9	6036.9	7037.4	7092.5
40°	4519.1	4519.1	4519.1	4322.5	4312.1	5240.1	5212.5	5126.2	6078.3	6199.1
42.5°	4060.3	4070.6	4077.5	3580.8	3304.8	4529.4	4467.3	4336.3	5219.4	5360.8
45°	3587.7	3604.9	3625.6	2994.3	2873.6	3260.0	3780.9	3636.0	4370.7	4553.6
47.5°	2190.5	2218.1	2687.3	2539.0	2552.8	2514.8	3084.0	3059.9	3584.2	3842.9
50°	1479.9	1490.3	1535.1	1611.0	2190.5	1976.7	2183.6	2532.1	2721.8	3115.1
52.5°	1241.9	1259.1	1148.7	1045.3	1438.5	1545.5	1524.8	1880.1	1956.0	2442.4
55°	872.8	928.0	876.2	865.9	817.6	1200.5	1155.6	1445.4	1493.7	1855.9
57.5°	89.7	103.5	179.4	645.1	534.7	679.6	824.5	1059.1	1107.3	1369.5
60°	6.9	6.9	17.2	89.7	389.8	407.1	569.2	652.0	745.1	955.6
62.5°	0.0	3.4	6.9	13.8	62.1	217.3	286.3	341.5	448.5	617.5
65°	0.0	0.0	3.4	10.3	13.8	82.8	110.4	179.4	244.9	382.9
67.5°	0.0	0.0	3.4	6.9	10.3	20.7	37.9	65.5	131.1	217.3
70°	0.0	0.0	3.4	6.9	10.3	17.2	27.6	41.4	58.6	117.3
72.5°	0.0	0.0	3.4	3.4	6.9	17.2	20.7	27.6	41.4	58.6
75°	0.0	0.0	3.4	3.4	10.3	20.7	17.2	20.7	27.6	37.9
77.5°	0.0	0.0	3.4	6.9	10.3	20.7	17.2	20.7	20.7	24.1
80°	0.0	0.0	3.4	6.9	13.8	24.1	20.7	20.7	17.2	17.2
82.5°	0.0	0.0	3.4	10.3	13.8	31.0	31.0	27.6	13.8	10.3
85°	0.0	0.0	6.9	13.8	20.7	34.5	34.5	27.6	10.3	6.9
87.5°	0.0	0.0	6.9	10.3	17.2	24.1	34.5	27.6	10.3	3.4
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°
18642.1	0°	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1	18642.1
18583.4	2.5°	18676.6	18655.9	18724.9	18752.5	18790.4	18645.5	18555.8	18559.3	18393.7
18373.0	5°	18483.4	18486.9	18576.5	18569.6	18607.6	18528.2	18493.8	18435.1	18290.2
18107.4	7.5°	18238.5	18207.4	18293.7	18359.2	18262.6	18317.8	18238.5	18266.1	18179.8
17872.8	10°	18048.7	17976.3	18055.6	18100.5	18103.9	18048.7	17972.8	17900.4	17869.4
17507.1	12.5°	17627.9	17534.7	17669.3	17731.4	17721.0	17614.1	17527.8	17545.1	17445.0
16865.5	15°	17048.3	17051.8	17148.4	17207.0	17151.8	17127.7	17134.6	17093.2	17006.9
15978.9	17.5°	16161.8	16213.5	16468.8	16610.2	16641.3	16593.0	16568.8	16520.5	16434.3
14564.6	20°	14685.3	14995.8	15451.1	15889.2	15975.5	15961.7	15875.4	15854.7	15806.4
13164.0	22.5°	13388.2	13619.3	14147.2	14830.2	15182.1	15216.6	15113.1	15082.0	15030.3
11911.8	25°	12046.3	12294.7	12770.7	13512.4	14240.3	14388.6	14371.4	14278.2	14223.0
10801.0	27.5°	10914.8	11163.2	11594.4	12263.6	13043.3	13519.3	13564.2	13415.8	13412.4
9810.9	30°	9893.7	10235.2	10562.9	11108.0	11863.5	12577.5	12653.4	12549.9	12560.3
8903.6	32.5°	9093.4	9376.2	9655.7	10021.3	10649.2	11480.5	11777.2	11680.6	11642.7
8148.2	35°	8275.8	8469.0	8755.3	9089.9	9517.7	10342.2	10856.2	10783.7	10745.8
7127.0	37.5°	7344.4	7675.5	7882.5	8258.5	8593.2	9248.6	9973.0	9962.7	9883.3
6257.7	40°	6388.8	6737.2	7051.2	7430.6	7689.3	8210.2	9014.0	9010.6	9020.9
5357.4	42.5°	5522.9	5843.8	6223.2	6637.2	6885.6	7265.0	8127.5	8175.7	8234.4
4615.7	45°	4739.9	5029.6	5381.5	5885.2	6185.3	6402.6	7168.4	7389.2	7385.8
3953.3	47.5°	4036.1	4308.7	4605.3	5095.2	5478.1	5674.7	6309.5	6623.4	6602.7
3242.7	50°	3387.6	3629.1	3939.5	4294.9	4808.9	4981.3	5453.9	5867.9	5836.9
2583.8	52.5°	2725.2	3059.9	3322.0	3646.3	4187.9	4356.9	4722.6	5126.2	5102.1
1938.7	55°	2125.0	2449.3	2766.6	3046.1	3501.4	3753.3	4015.4	4429.4	4422.5
1517.9	57.5°	1607.6	1962.9	2263.0	2528.6	2890.8	3201.3	3411.7	3787.8	3836.0
1038.4	60°	1190.1	1462.7	1786.9	2083.6	2369.9	2690.8	2832.2	3201.3	3222.0
710.6	62.5°	810.7	1110.8	1428.2	1697.2	1911.1	2242.3	2369.9	2673.5	2711.5
455.4	65°	562.3	755.5	1117.7	1310.9	1573.1	1855.9	1983.6	2225.0	2300.9
262.2	67.5°	372.6	538.2	872.8	1048.7	1307.4	1500.6	1662.7	1859.4	1942.2
165.6	70°	203.5	396.7	624.4	827.9	1052.2	1238.4	1397.1	1555.8	1628.3
75.9	72.5°	138.0	265.6	434.7	655.4	848.6	1031.5	1172.9	1290.2	1293.6
44.8	75°	69.0	179.4	331.2	507.1	662.3	841.7	969.4	1038.4	955.6
27.6	77.5°	41.4	131.1	269.1	407.1	538.2	679.6	752.0	790.0	655.4
20.7	80°	24.1	93.1	210.4	324.3	372.6	500.2	569.2	579.5	438.1
13.8	82.5°	17.2	69.0	165.6	238.0	227.7	351.9	427.8	414.0	279.4
10.3	85°	10.3	48.3	103.5	148.3	138.0	231.1	248.4	255.3	162.1
6.9	87.5°	6.9	27.6	55.2	79.3	65.5	100.0	100.0	120.7	79.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18642.1
18179.8
18255.7
18034.9
17731.4
17358.8
16920.7
16396.3
15696.1
15016.5
14164.4
13405.5
12508.6
11646.1
10694.0
9948.9
9020.9
8203.3
7392.7
6609.6
5864.5
5153.8
4439.7
3815.3
3253.1
2718.4
2283.7
1931.8
1600.7
1262.6
893.5
631.3
410.5
258.7
148.3
69.0
0.0

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