

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: P638814

Luminaire Tested: **EPH-VN-08-D-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-930-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27443.3 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

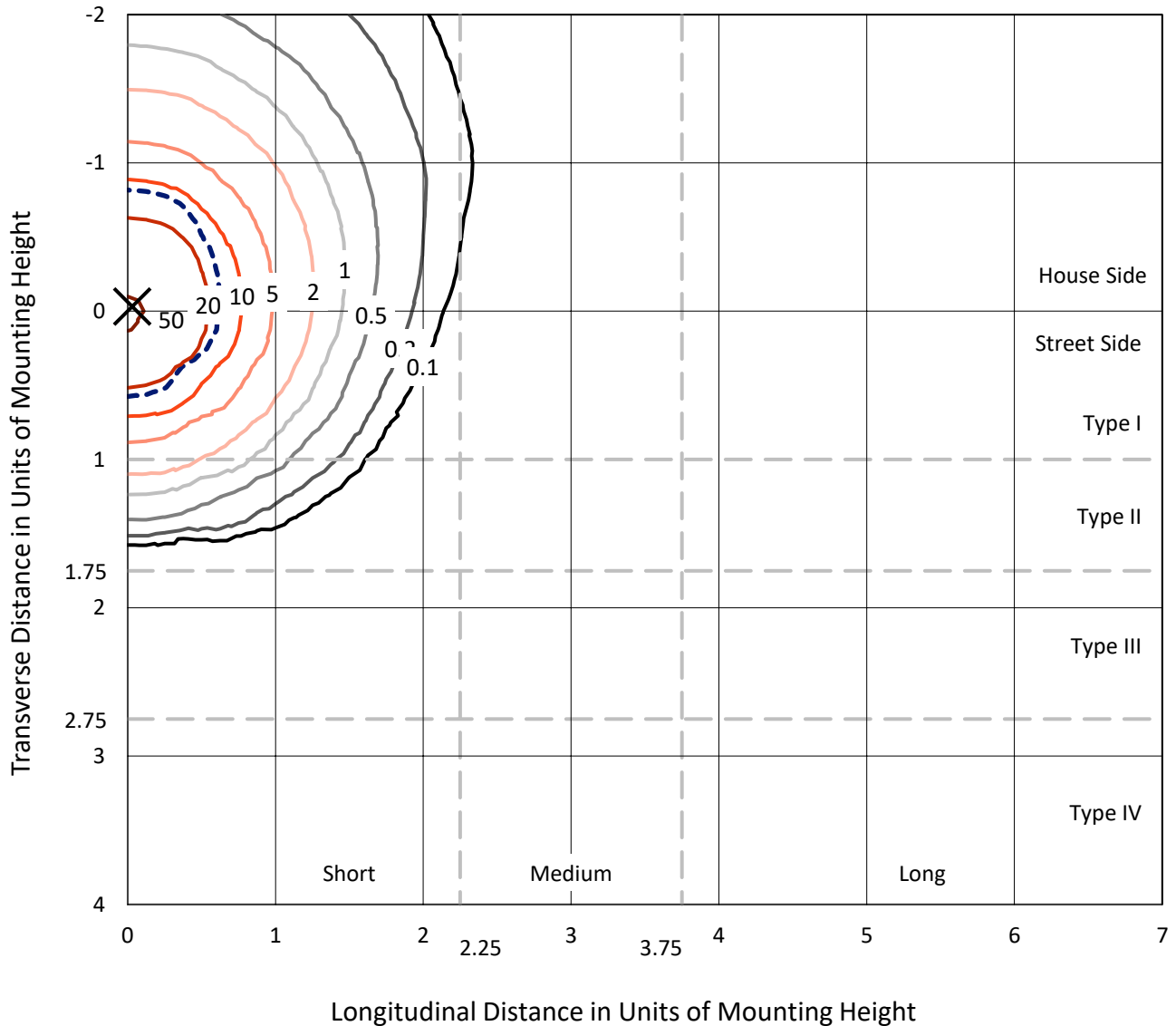
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

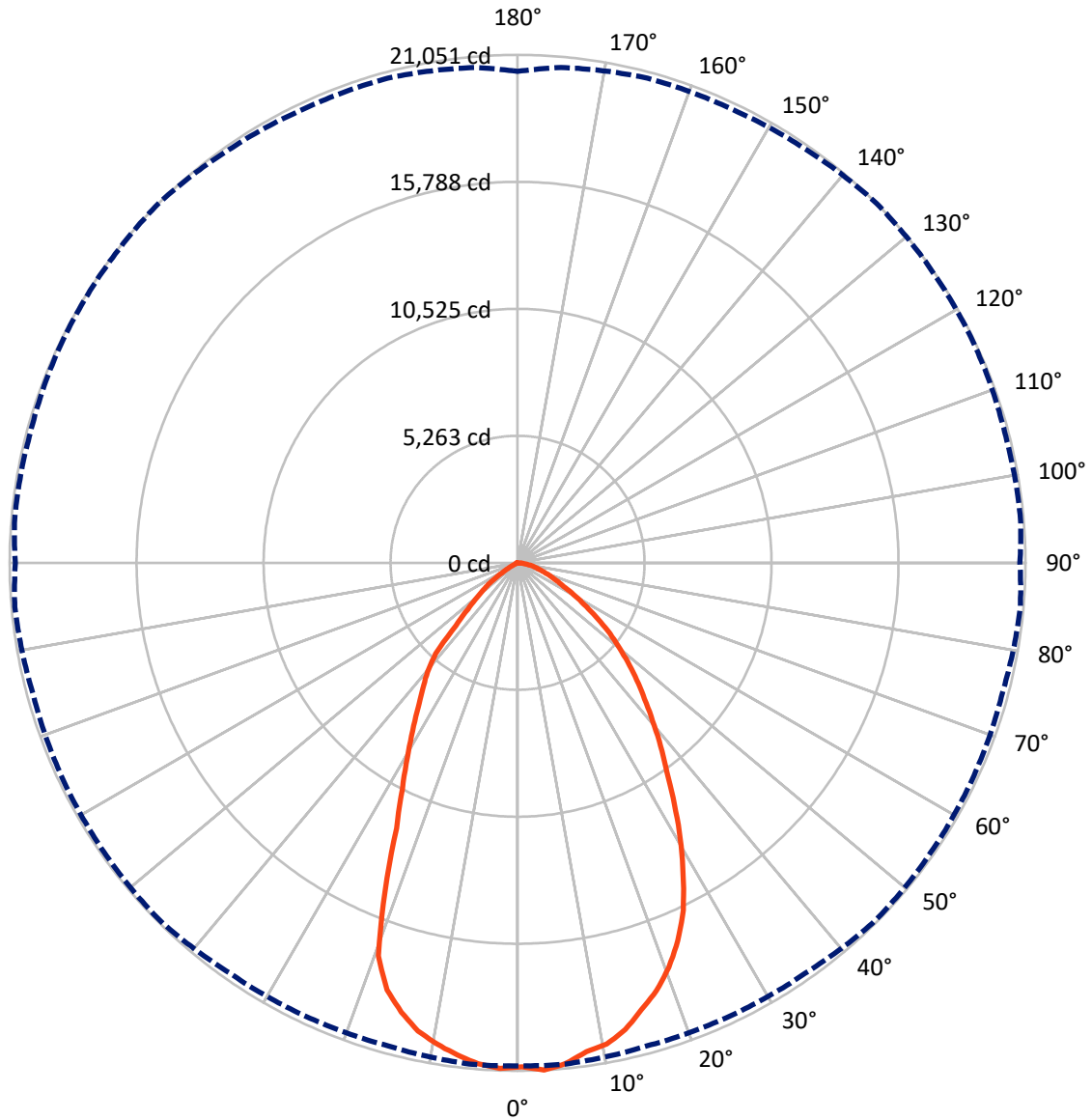
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.2 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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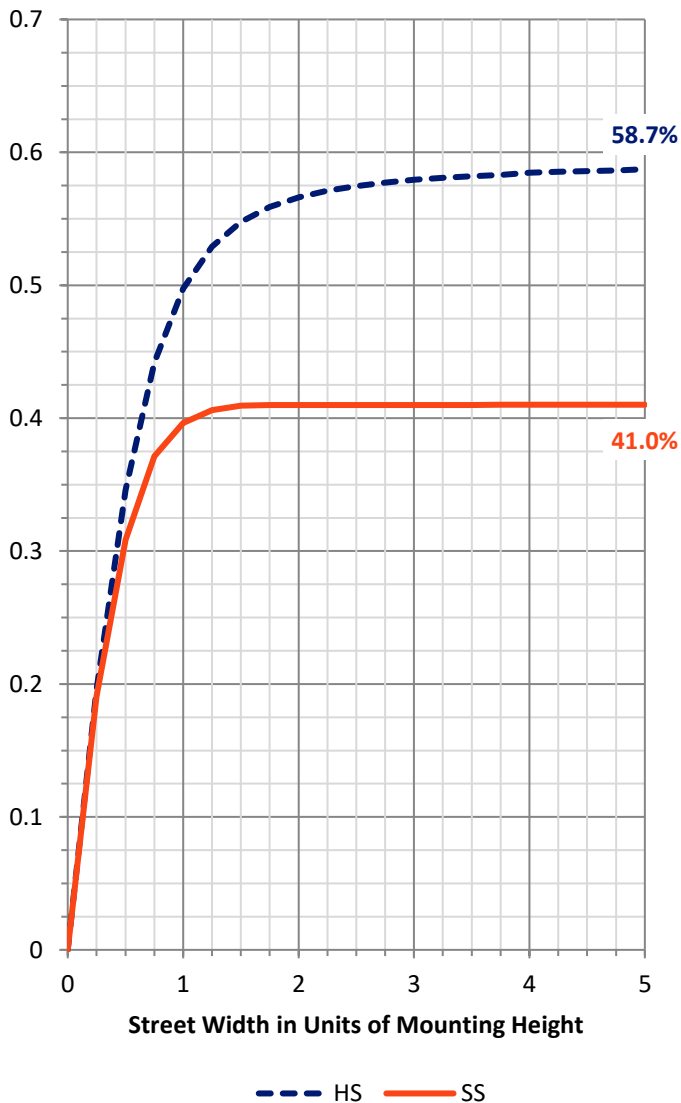
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16253.3	0.0	16253.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11190.0	0.0	11190.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	27443.3	0.0	27443.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1958.6	7.1
10°-20°	5252.2	19.1
20°-30°	6405.3	23.3
30°-40°	5848.0	21.3
40°-50°	4226.2	15.4
50°-60°	2307.5	8.4
60°-70°	954.1	3.5
70°-80°	386.4	1.4
80°-90°	105.1	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°	27443.3	100.0
0°-180°	27443.3	100.0

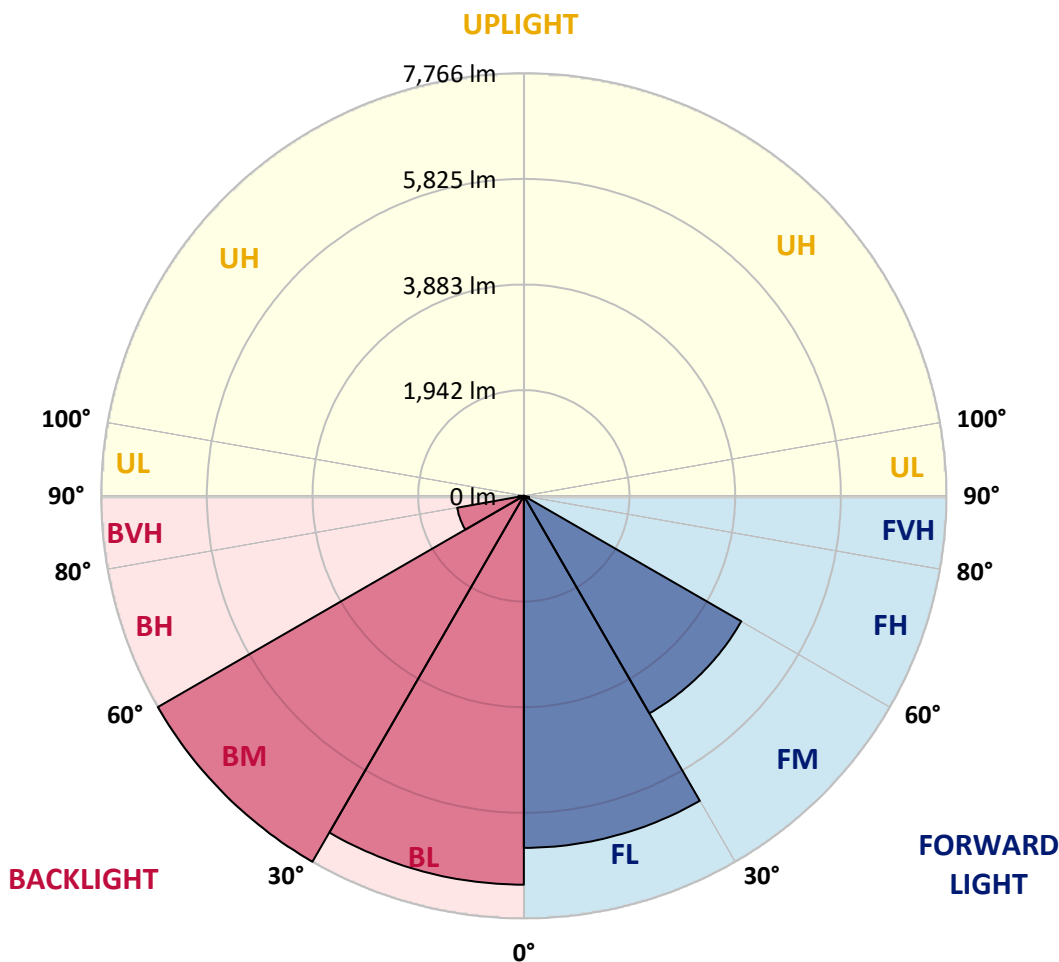


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6469.4	23.6			
FM (30°-60°)	4615.5	16.8			
FH (60°-80°)	96.7	0.4			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	7146.6	26.0	B5		
BM (30°-60°)	7766.2	28.3	B4/8500		
BH (60°-80°)	1243.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	96.7	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°	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3
2.5°	20845.6	20872.7	20725.8	20741.3	20768.4	20965.5	20915.2	20868.8	20803.1	20915.2
5°	20818.6	20834.1	20679.5	20625.4	20648.6	20826.3	20664.0	20664.0	20648.6	20629.2
7.5°	20609.9	20617.6	20497.8	20401.2	20463.1	20544.2	20424.4	20482.4	20397.4	20463.1
10°	20296.9	20246.6	20103.6	20076.6	20146.2	20223.4	20142.3	20196.4	20119.1	20169.3
12.5°	19837.0	19759.7	19643.8	19609.0	19728.8	19833.1	19767.4	19736.5	19636.0	19759.7
15°	18063.1	18005.2	18268.0	18727.8	19141.4	19230.2	19160.7	19191.6	18982.9	19017.7
17.5°	14867.1	14758.9	15041.0	16130.8	17684.4	18503.7	18441.9	18240.9	17931.7	18001.3
20°	13510.6	13479.7	13448.8	13707.7	14793.7	17278.6	17363.6	16853.5	16413.0	16316.3
22.5°	12745.4	12733.9	12702.9	12760.9	13046.9	14643.0	15616.8	15145.4	14851.7	14824.6
25°	12046.0	12026.6	11933.9	12007.3	12007.3	12100.1	13348.3	13634.3	13375.4	13344.5
27.5°	11334.9	11300.1	11284.6	11319.4	11141.6	10515.6	10832.5	12227.6	12092.3	12100.1
30°	10565.8	10554.2	10511.7	10585.1	10036.4	9259.6	9058.6	10952.3	10979.3	10971.6
32.5°	9421.9	9472.1	9665.4	9746.5	8842.2	8200.7	7864.5	9476.0	10028.6	10017.0
35°	6844.2	6844.2	7474.1	8645.1	7748.5	7265.4	7083.8	8034.5	9089.5	9128.2
37.5°	5626.9	5646.2	5769.8	6303.2	6685.8	6515.7	6461.6	6763.0	7883.8	7945.6
40°	5062.6	5062.6	5062.6	4842.3	4830.7	5870.3	5839.4	5742.8	6809.4	6944.7
42.5°	4548.6	4560.2	4568.0	4011.5	3702.3	5074.2	5004.7	4857.8	5847.1	6005.6
45°	4019.2	4038.5	4061.7	3354.5	3219.2	3652.0	4235.6	4073.3	4896.4	5101.3
47.5°	2454.0	2484.9	3010.5	2844.3	2859.8	2817.3	3455.0	3427.9	4015.3	4305.2
50°	1657.9	1669.5	1719.7	1804.8	2454.0	2214.4	2446.3	2836.6	3049.2	3489.7
52.5°	1391.3	1410.6	1286.9	1171.0	1611.5	1731.3	1708.2	2106.2	2191.2	2736.1
55°	977.7	1039.6	981.6	970.0	915.9	1344.9	1294.6	1619.3	1673.4	2079.2
57.5°	100.5	115.9	201.0	722.7	599.0	761.3	923.6	1186.4	1240.5	1534.2
60°	7.7	7.7	19.3	100.5	436.7	456.0	637.7	730.4	834.8	1070.5
62.5°	0.0	3.9	7.7	15.5	69.6	243.5	320.8	382.6	502.4	691.8
65°	0.0	0.0	3.9	11.6	15.5	92.8	123.7	201.0	274.4	429.0
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	42.5	73.4	146.9	243.5
70°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	46.4	65.7	131.4
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	23.2	30.9	46.4	65.7
75°	0.0	0.0	3.9	3.9	11.6	23.2	19.3	23.2	30.9	42.5
77.5°	0.0	0.0	3.9	7.7	11.6	23.2	19.3	23.2	23.2	27.1
80°	0.0	0.0	3.9	7.7	15.5	27.1	23.2	23.2	19.3	19.3
82.5°	0.0	0.0	3.9	11.6	15.5	34.8	34.8	30.9	15.5	11.6
85°	0.0	0.0	7.7	15.5	23.2	38.6	38.6	30.9	11.6	7.7
87.5°	0.0	0.0	7.7	11.6	19.3	27.1	38.6	30.9	11.6	3.9
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°
20884.3	0°	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3	20884.3
20818.6	2.5°	20922.9	20899.8	20977.0	21008.0	21050.5	20888.2	20787.7	20791.5	20606.0
20582.9	5°	20706.5	20710.4	20810.9	20803.1	20845.6	20756.8	20718.1	20652.4	20490.1
20285.3	7.5°	20432.1	20397.4	20494.0	20567.4	20459.2	20521.0	20432.1	20463.1	20366.4
20022.5	10°	20219.6	20138.4	20227.3	20277.6	20281.4	20219.6	20134.6	20053.4	20018.6
19612.8	12.5°	19748.1	19643.8	19794.5	19864.0	19852.4	19732.6	19636.0	19655.4	19543.3
18894.0	15°	19098.9	19102.7	19210.9	19276.6	19214.8	19187.7	19195.5	19149.1	19052.5
17900.8	17.5°	18105.6	18163.6	18449.6	18608.0	18642.8	18588.7	18561.7	18507.6	18411.0
16316.3	20°	16451.6	16799.4	17309.5	17800.3	17897.0	17881.5	17784.9	17761.7	17707.6
14747.3	22.5°	14998.5	15257.4	15848.7	16613.9	17008.1	17046.7	16930.8	16896.0	16838.1
13344.5	25°	13495.2	13773.4	14306.7	15137.6	15953.1	16119.2	16099.9	15995.6	15933.7
12100.1	27.5°	12227.6	12505.8	12988.9	13738.7	14612.1	15145.4	15195.6	15029.4	15025.6
10990.9	30°	11083.7	11466.3	11833.4	12444.0	13290.4	14090.3	14175.4	14059.4	14071.0
9974.5	32.5°	10187.1	10504.0	10817.0	11226.7	11930.0	12861.4	13193.7	13085.5	13043.0
9128.2	35°	9271.2	9487.6	9808.4	10183.2	10662.4	11586.1	12161.9	12080.7	12038.2
7984.3	37.5°	8227.7	8598.7	8830.6	9251.9	9626.7	10361.0	11172.6	11161.0	11072.1
7010.4	40°	7157.2	7547.6	7899.2	8324.3	8614.2	9197.7	10098.2	10094.3	10105.9
6001.7	42.5°	6187.2	6546.6	6971.7	7435.5	7713.7	8138.8	9105.0	9159.1	9224.8
5170.8	45°	5310.0	5634.6	6028.8	6593.0	6929.2	7172.7	8030.6	8278.0	8274.1
4428.8	47.5°	4521.6	4826.9	5159.2	5708.0	6137.0	6357.3	7068.4	7420.0	7396.8
3632.7	50°	3795.0	4065.6	4413.4	4811.4	5387.3	5580.5	6109.9	6573.7	6538.9
2894.6	52.5°	3053.0	3427.9	3721.6	4084.9	4691.6	4881.0	5290.6	5742.8	5715.7
2171.9	55°	2380.6	2743.9	3099.4	3412.4	3922.6	4204.7	4498.4	4962.1	4954.4
1700.4	57.5°	1800.9	2199.0	2535.2	2832.8	3238.5	3586.3	3822.1	4243.3	4297.4
1163.2	60°	1333.3	1638.6	2001.9	2334.2	2655.0	3014.4	3172.8	3586.3	3609.5
796.1	62.5°	908.2	1244.4	1599.9	1901.4	2141.0	2512.0	2655.0	2995.1	3037.6
510.1	65°	629.9	846.3	1252.1	1468.5	1762.3	2079.2	2222.1	2492.7	2577.7
293.7	67.5°	417.4	602.9	977.7	1174.8	1464.7	1681.1	1862.7	2083.0	2175.8
185.5	70°	228.0	444.4	699.5	927.5	1178.7	1387.4	1565.2	1742.9	1824.1
85.0	72.5°	154.6	297.6	486.9	734.3	950.7	1155.5	1314.0	1445.4	1449.2
50.2	75°	77.3	201.0	371.0	568.1	742.0	943.0	1086.0	1163.2	1070.5
30.9	77.5°	46.4	146.9	301.4	456.0	602.9	761.3	842.5	885.0	734.3
23.2	80°	27.1	104.3	235.7	363.3	417.4	560.4	637.7	649.3	490.8
15.5	82.5°	19.3	77.3	185.5	266.7	255.1	394.2	479.2	463.8	313.0
11.6	85°	11.6	54.1	115.9	166.2	154.6	258.9	278.3	286.0	181.6
7.7	87.5°	7.7	30.9	61.8	88.9	73.4	112.1	112.1	135.3	88.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20884.3
20366.4
20451.5
20204.1
19864.0
19446.7
18955.9
18368.4
17583.9
16822.6
15868.0
15017.8
14013.0
13046.9
11980.3
11145.5
10105.9
9190.0
8281.8
7404.6
6569.8
5773.7
4973.7
4274.2
3644.3
3045.3
2558.4
2164.2
1793.2
1414.4
1000.9
707.2
459.9
289.8
166.2
77.3
0.0

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