

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: P638862

Luminaire Tested: **EPH-VN-08-D-760-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638862
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-760-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42029 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

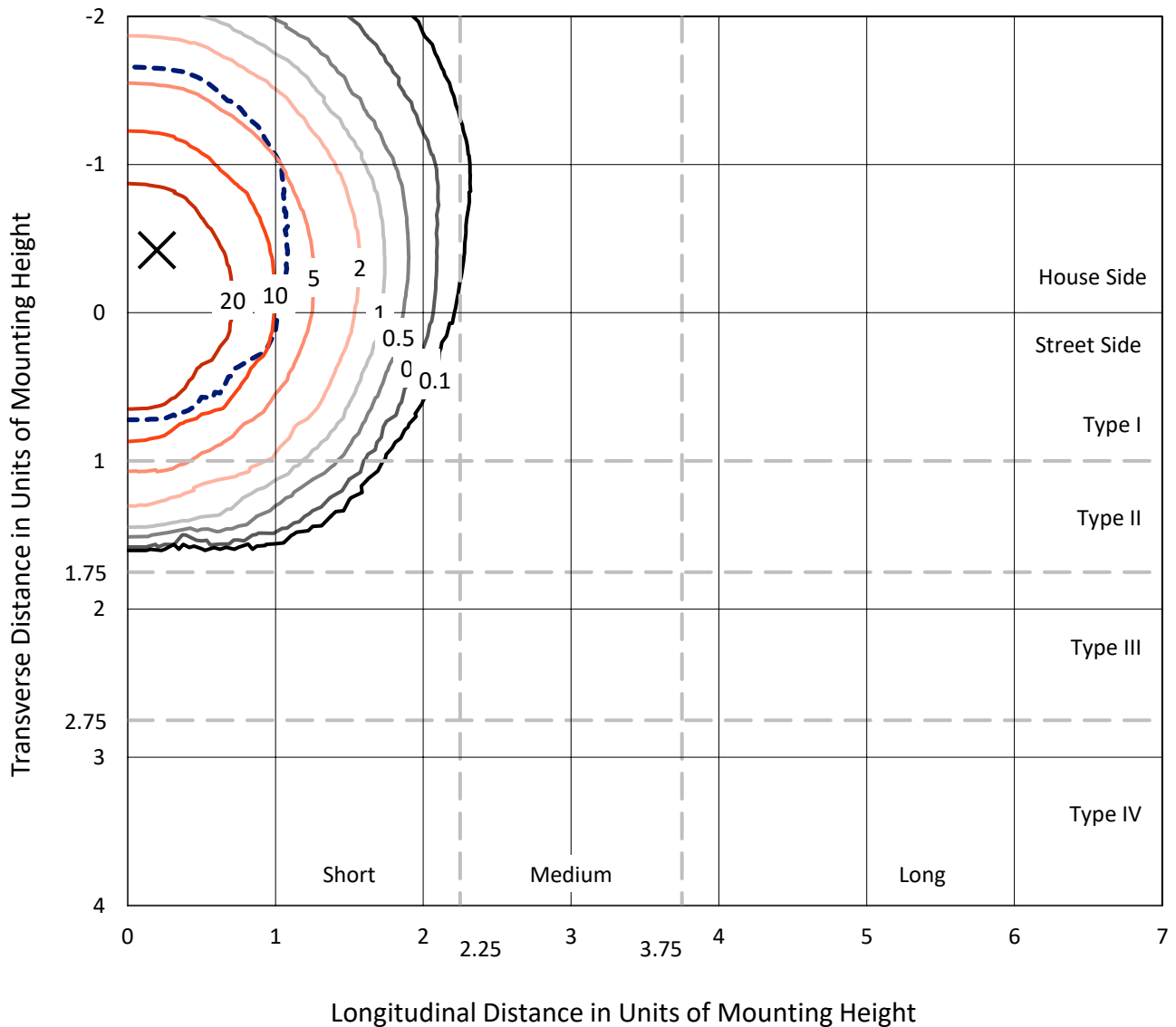
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

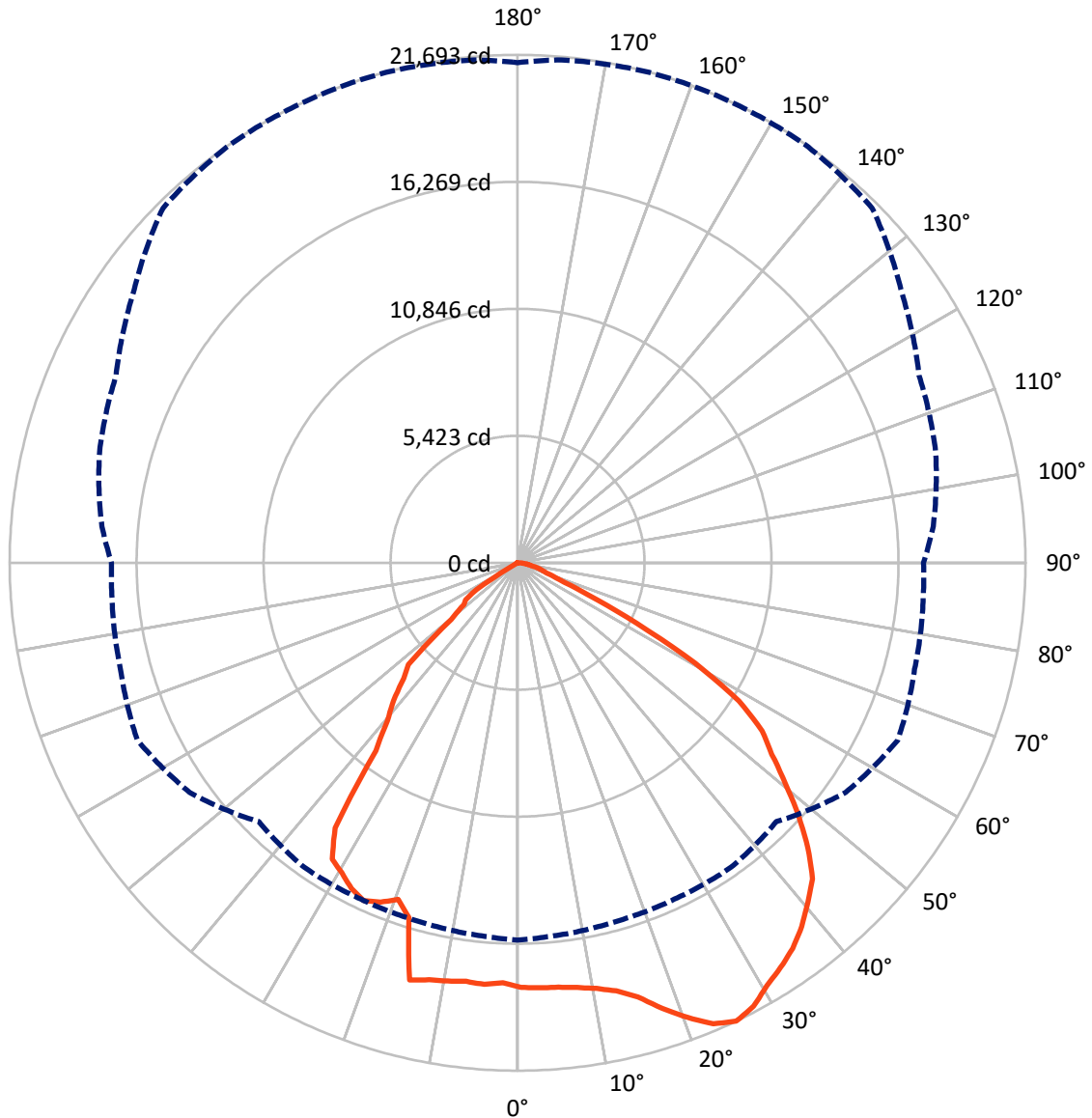
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.3 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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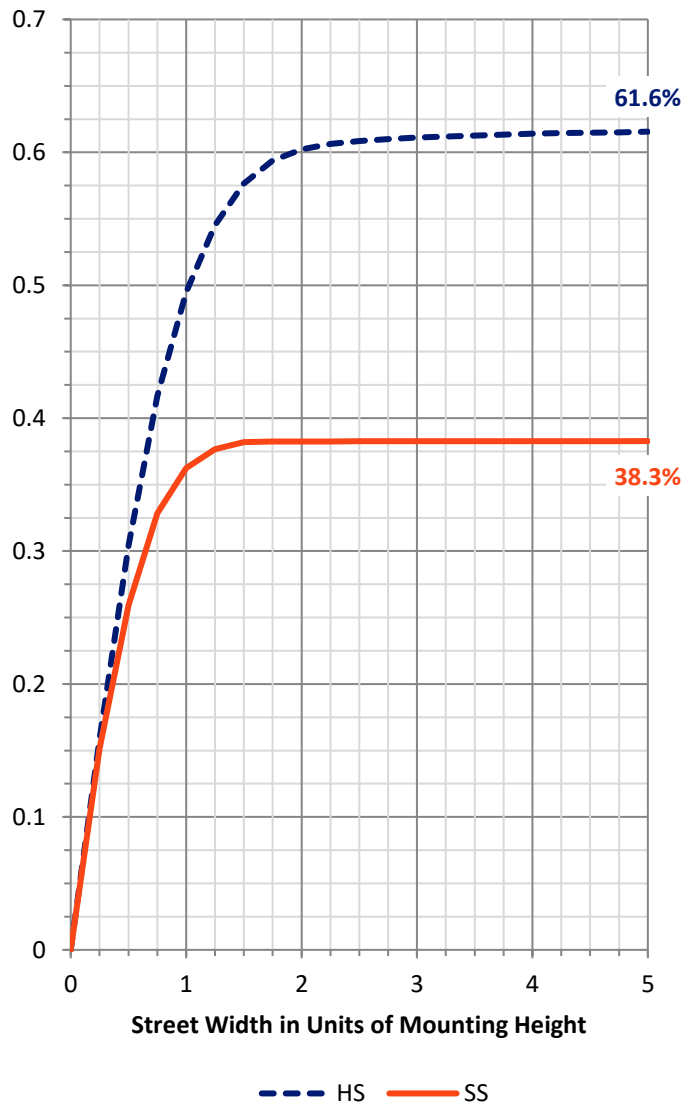
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26020.3	0.0	26020.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	16008.7	0.0	16008.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	42029.0	0.0	42029.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1739.8	4.1
10°-20°	5312.4	12.6
20°-30°	8398.5	20.0
30°-40°	9486.9	22.6
40°-50°	8884.7	21.1
50°-60°	6125.3	14.6
60°-70°	1645.7	3.9
70°-80°	343.0	0.8
80°-90°	92.8	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°	42029.0	100.0
0°-180°	42029.0	100.0

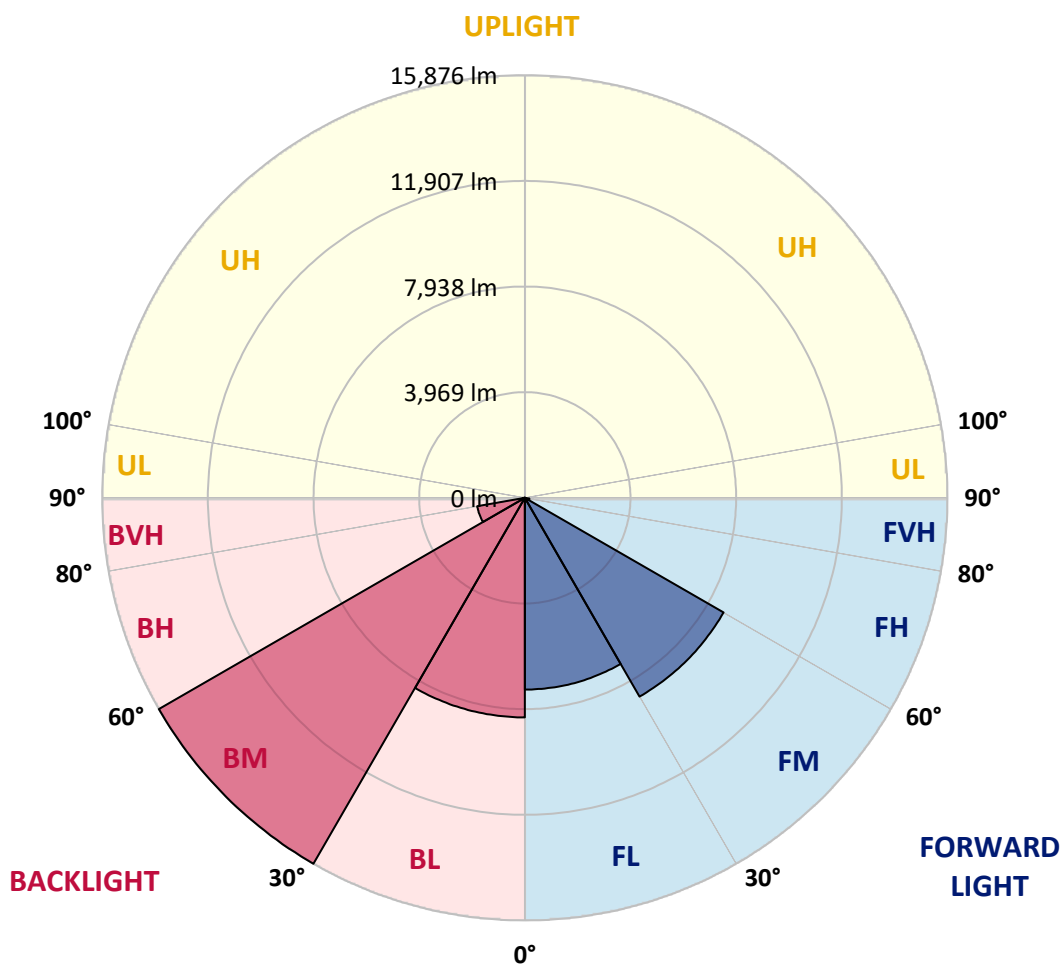


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7202.4	17.1			
FM (30°-60°)	8621.1	20.5			
FH (60°-80°)	172.8	0.4			G0/660
FVH (80°-90°)	12.4	0.0			G1/100
BL (0°-30°)	8248.3	19.6	B5		
BM (30°-60°)	15875.8	37.8	B5		
BH (60°-80°)	1815.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	80.3	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°	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8
2.5°	18215.1	18097.7	17986.5	17949.5	18103.9	18270.6	18165.6	18171.8	18134.8	18202.7
5°	18350.9	18190.3	18116.2	18060.6	18085.3	18258.3	18110.0	18165.6	18103.9	18184.2
7.5°	18301.5	18190.3	18116.2	18011.2	18091.5	18295.3	18153.3	18159.5	18128.6	18202.7
10°	18270.6	18190.3	18097.7	18110.0	18202.7	18375.6	18264.5	18326.2	18283.0	18326.2
12.5°	18344.8	18258.3	18208.9	18208.9	18289.2	18486.8	18431.2	18486.8	18468.3	18505.4
15°	17646.8	17727.1	18196.5	18406.5	18567.1	18764.8	18740.1	18795.7	18808.0	18863.6
17.5°	14885.8	14805.5	14768.5	15849.4	18721.5	19333.0	19314.5	19308.3	19246.6	19203.3
20°	15250.2	15219.4	15176.1	15256.4	15577.6	19629.5	19753.0	18993.3	18771.0	18752.4
22.5°	15830.8	15781.4	15620.8	15627.0	15725.8	17066.2	19141.6	18449.8	18375.6	18332.4
25°	16115.0	16016.2	15886.4	15849.4	15880.3	15633.2	17097.1	17918.6	17554.1	17387.4
27.5°	15614.7	15620.8	15515.8	15614.7	15497.3	14385.5	13761.7	16880.9	16868.5	16794.4
30°	15237.9	15219.4	15095.8	15219.4	14410.2	13168.7	12903.1	15744.4	15614.7	15515.8
32.5°	14082.8	14095.2	14453.4	14935.2	13607.2	12625.1	11822.2	14064.3	15293.5	15237.9
35°	10074.2	10098.9	11371.3	13749.3	12390.4	11544.2	11482.5	12155.7	14787.0	14811.7
37.5°	9697.4	9697.4	9666.5	10055.6	11433.0	11105.7	11229.2	11161.3	13545.5	13607.2
40°	9425.6	9370.0	9326.8	8715.3	7949.4	10796.8	10883.3	10574.5	12804.3	12816.6
42.5°	9098.3	9036.5	9048.8	7918.5	7115.5	10030.9	9790.0	9376.2	11568.9	11581.3
45°	8499.1	8604.1	8678.2	6930.2	6868.5	7165.0	9030.3	8770.9	10735.1	10963.6
47.5°	4323.7	4416.3	6775.8	6374.3	6516.4	6368.2	7628.2	7634.4	8931.5	9691.2
50°	3922.2	3897.5	3903.7	3718.4	6016.1	5151.4	5515.8	6998.2	7152.6	8239.7
52.5°	3656.6	3650.4	3273.6	2909.2	3780.1	4533.7	4002.5	5064.9	5318.1	6979.7
55°	2705.4	2903.0	2581.9	2736.3	2365.7	3631.9	3613.4	4570.7	4657.2	5596.1
57.5°	24.7	30.9	74.1	2081.5	1636.8	1815.9	2495.4	3119.2	3273.6	4360.7
60°	6.2	12.4	30.9	61.8	1062.4	1118.0	1667.7	1803.6	2032.1	2600.4
62.5°	0.0	0.0	12.4	30.9	55.6	457.1	531.2	580.6	895.6	1328.0
65°	0.0	0.0	6.2	18.5	30.9	74.1	129.7	271.8	389.1	481.8
67.5°	0.0	0.0	6.2	12.4	24.7	37.1	74.1	105.0	166.8	284.1
70°	0.0	0.0	6.2	12.4	18.5	30.9	49.4	74.1	98.8	142.1
72.5°	0.0	0.0	6.2	12.4	12.4	37.1	37.1	55.6	74.1	92.7
75°	0.0	0.0	6.2	6.2	12.4	24.7	37.1	43.2	49.4	74.1
77.5°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	49.4	43.2	43.2
80°	0.0	0.0	6.2	18.5	18.5	30.9	37.1	49.4	30.9	30.9
82.5°	0.0	0.0	6.2	24.7	18.5	61.8	61.8	67.9	24.7	24.7
85°	0.0	0.0	18.5	12.4	37.1	61.8	55.6	37.1	30.9	18.5
87.5°	0.0	0.0	6.2	6.2	12.4	18.5	43.2	37.1	12.4	12.4
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°
18134.8	0°	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8	18134.8
18023.6	2.5°	18270.6	18190.3	18357.1	18338.6	18258.3	18221.2	18178.0	18140.9	17869.2
18035.9	5°	18276.8	18153.3	18357.1	18320.1	18307.7	18245.9	18208.9	18264.5	18017.4
18085.3	7.5°	18276.8	18153.3	18375.6	18388.0	18369.5	18320.1	18313.9	18350.9	18147.1
18171.8	10°	18400.4	18350.9	18536.2	18554.8	18530.1	18517.7	18486.8	18462.1	18245.9
18468.3	12.5°	18659.8	18560.9	18771.0	18826.5	18808.0	18838.9	18764.8	18801.8	18579.5
18771.0	15°	18974.8	18981.0	19141.6	19265.1	19252.7	19351.6	19240.4	19339.2	19178.6
19116.8	17.5°	19456.6	19524.5	19753.0	19938.3	20006.3	20080.4	20006.3	20037.2	19808.6
18733.9	20°	18950.1	19203.3	20302.8	20642.5	20784.6	20852.5	20729.0	20766.0	20537.5
18264.5	22.5°	18493.0	18820.4	19796.3	20858.7	21297.2	21433.1	21389.9	21383.7	21297.2
17338.0	25°	17819.7	18480.6	18919.2	20043.4	21420.8	21667.8	21692.5	21686.3	21556.6
16769.7	27.5°	16992.1	17140.3	18276.8	18962.4	20556.0	21494.9	21457.8	21278.7	21105.7
15590.0	30°	15935.9	16609.1	17121.8	18215.1	19438.0	20963.7	20963.7	20827.8	20648.7
15169.9	32.5°	15398.5	16269.4	16745.0	17140.3	18184.2	20370.7	20617.8	20475.7	20333.7
14842.6	35°	15114.4	15244.1	16355.9	16714.1	17597.4	19228.0	20228.7	20086.6	19981.6
13971.7	37.5°	14490.5	14793.2	15312.0	16269.4	16541.2	18295.3	19709.8	19635.7	19512.2
12841.3	40°	13100.8	13909.9	14706.7	15614.7	15898.8	17097.1	19079.8	19110.7	18943.9
11636.9	42.5°	12279.3	12829.0	14076.7	14688.2	15454.1	16325.0	18468.3	18517.7	18400.4
11025.4	45°	11315.7	11927.2	12804.3	13916.1	14959.9	15262.6	17387.4	17906.2	17807.4
9808.6	47.5°	10432.4	10926.6	12001.3	13125.5	14280.5	14237.3	16145.9	17121.8	16985.9
8875.9	50°	9178.6	10043.3	10549.8	11581.3	13304.6	13421.9	14824.0	16201.5	16090.3
7541.7	52.5°	7739.4	8826.5	9796.2	10741.3	12316.3	12594.3	13594.9	15262.6	15188.5
5762.8	55°	6763.5	7554.1	8647.4	9407.1	11118.0	11859.2	12674.6	14367.0	14329.9
4737.5	57.5°	4811.6	6337.3	7239.1	8301.5	9203.3	10543.6	11148.9	12544.9	12199.0
2625.1	60°	3261.3	3977.8	5077.2	6219.9	6825.2	8165.6	8727.7	9845.6	9753.0
1568.9	62.5°	1723.3	2384.2	3168.6	3743.1	4181.6	5484.9	5719.6	6924.1	6893.2
630.0	65°	759.7	1006.8	1717.1	2013.6	2464.5	3069.8	3273.6	3706.0	3601.0
308.8	67.5°	395.3	599.1	969.7	1192.1	1500.9	1729.5	1896.2	2032.1	2118.6
203.8	70°	240.9	438.5	599.1	827.7	1031.5	1216.8	1346.5	1531.8	1643.0
105.0	72.5°	179.1	278.0	413.8	636.2	747.4	963.6	1093.3	1229.2	1328.0
86.5	75°	98.8	185.3	333.5	500.3	599.1	784.4	901.8	994.4	1025.3
49.4	77.5°	61.8	142.1	278.0	389.1	469.4	636.2	605.3	691.8	765.9
37.1	80°	43.2	105.0	216.2	321.2	327.4	407.7	481.8	555.9	605.3
24.7	82.5°	30.9	86.5	160.6	247.1	216.2	315.0	376.8	432.4	315.0
18.5	85°	24.7	61.8	80.3	148.2	123.5	222.4	191.5	185.3	123.5
12.4	87.5°	18.5	30.9	55.6	67.9	49.4	49.4	61.8	74.1	61.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18134.8
17683.9
17807.4
17912.4
18066.8
18381.8
18913.0
19611.0
20376.9
21019.3
21359.0
20969.9
20580.7
20216.3
19833.3
19388.6
18906.8
18388.0
17819.7
17084.7
16108.8
15237.9
14373.2
12161.9
9759.2
6899.4
3557.8
2118.6
1649.2
1346.5
1006.8
778.3
611.5
228.5
123.5
61.8
0.0

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