

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: P638820

Luminaire Tested: **EPH-VN-08-D-935-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638820
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-935-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28472.5 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

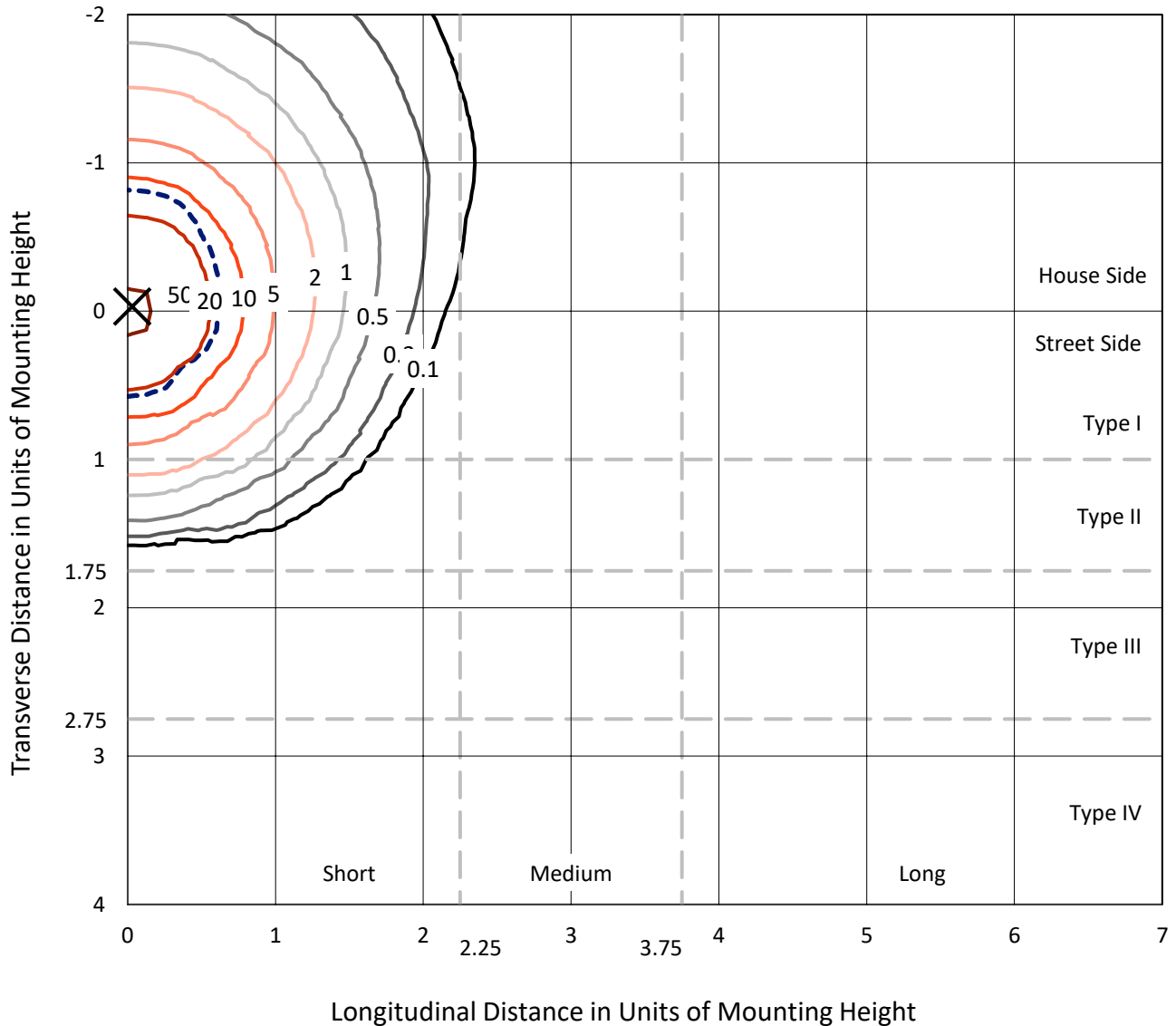
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

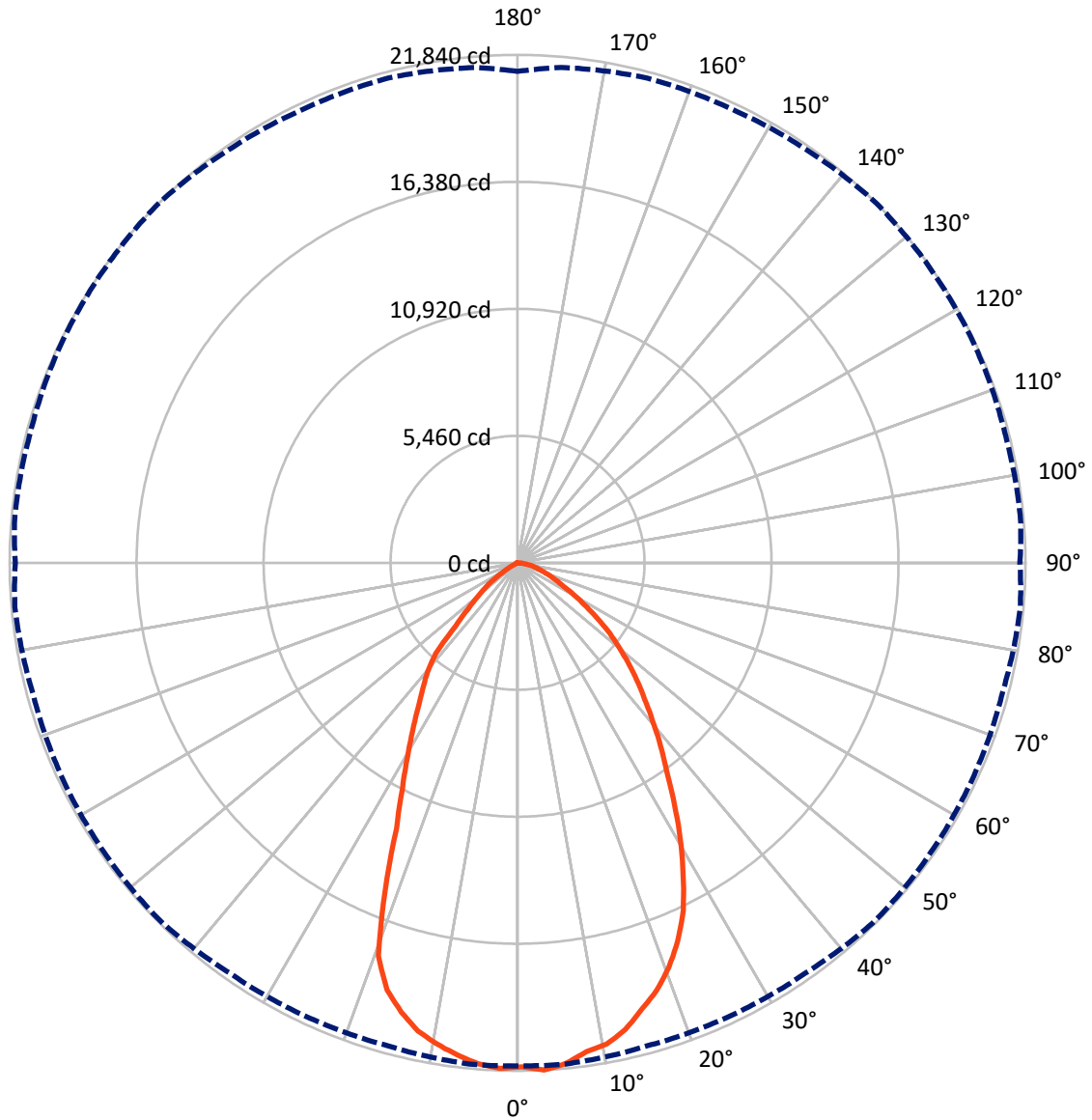
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.2 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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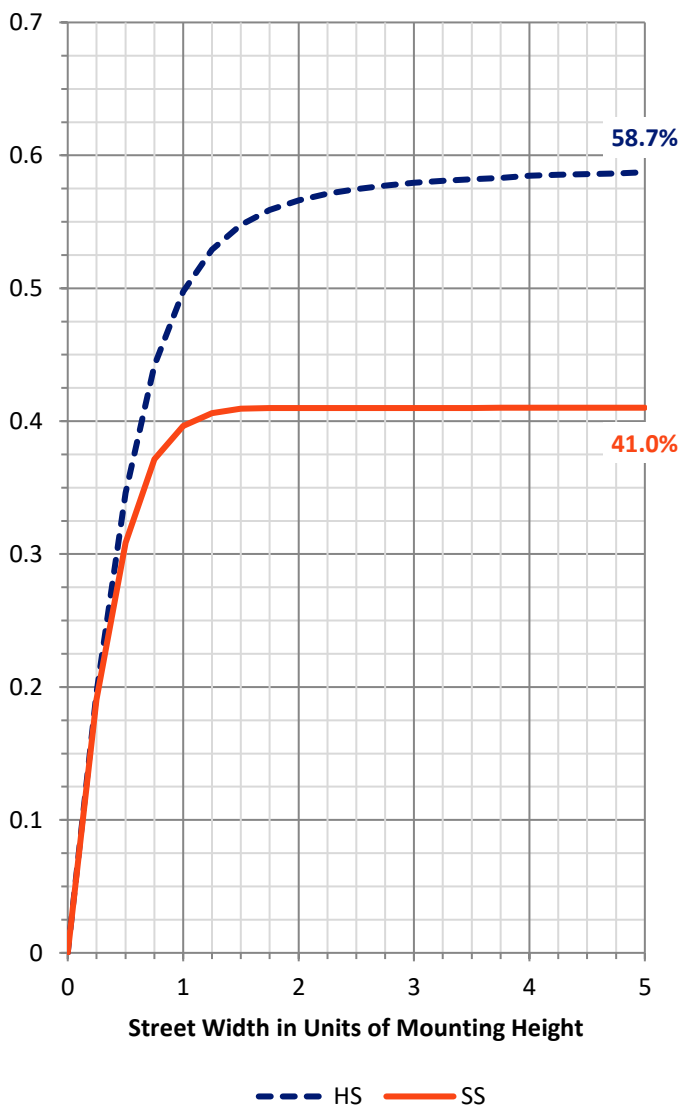
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16862.8	0.0	16862.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11609.6	0.0	11609.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	28472.5	0.0	28472.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2032.1	7.1
10°-20°	5449.1	19.1
20°-30°	6645.5	23.3
30°-40°	6067.3	21.3
40°-50°	4384.7	15.4
50°-60°	2394.1	8.4
60°-70°	989.9	3.5
70°-80°	400.9	1.4
80°-90°	109.0	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°	28472.5	100.0
0°-180°	28472.5	100.0

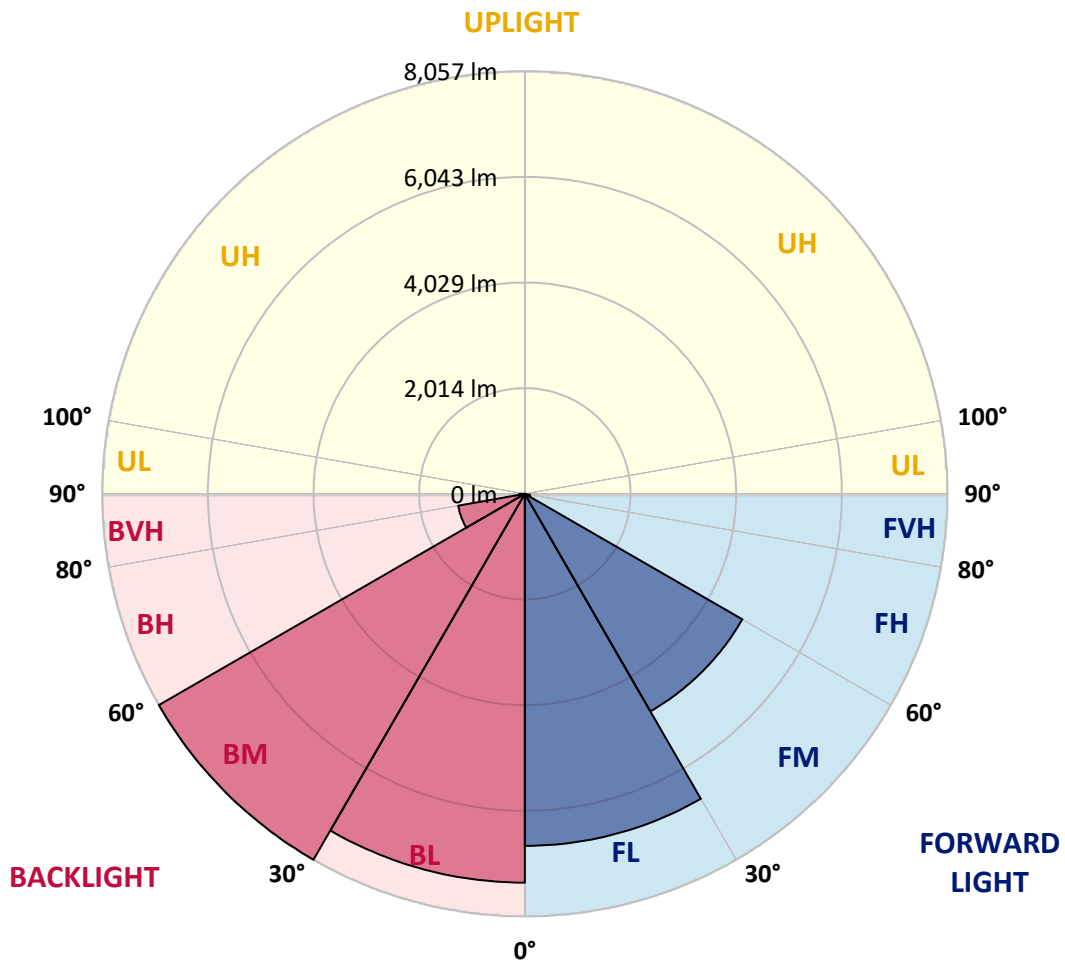


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6712.0	23.6			
FM (30°-60°)	4788.5	16.8			
FH (60°-80°)	100.3	0.4			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	7414.6	26.0	B5		
BM (30°-60°)	8057.5	28.3	B4/8500		
BH (60°-80°)	1290.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	100.3	0.4			G2/225
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°	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5
2.5°	21627.4	21655.4	21503.1	21519.1	21547.2	21751.7	21699.5	21651.4	21583.3	21699.5
5°	21599.3	21615.3	21455.0	21398.8	21422.9	21607.3	21438.9	21438.9	21422.9	21402.8
7.5°	21382.8	21390.8	21266.5	21166.3	21230.4	21314.6	21190.3	21250.5	21162.3	21230.4
10°	21058.0	21005.9	20857.5	20829.5	20901.6	20981.8	20897.6	20953.8	20873.6	20925.7
12.5°	20580.9	20500.7	20380.4	20344.3	20468.6	20576.9	20508.7	20476.6	20372.4	20500.7
15°	18740.5	18680.4	18953.0	19430.1	19859.2	19951.4	19879.2	19911.3	19694.8	19730.9
17.5°	15424.6	15312.4	15605.1	16735.7	18347.6	19197.6	19133.4	18924.9	18604.2	18676.4
20°	14017.3	13985.2	13953.1	14221.8	15348.5	17926.6	18014.8	17485.5	17028.4	16928.2
22.5°	13223.4	13211.4	13179.3	13239.4	13536.1	15192.1	16202.5	15713.3	15408.6	15380.5
25°	12497.7	12477.6	12381.4	12457.6	12457.6	12553.8	13848.9	14145.6	13877.0	13844.9
27.5°	11759.9	11723.8	11707.8	11743.9	11559.5	10909.9	11238.7	12686.1	12545.8	12553.8
30°	10962.0	10950.0	10905.9	10982.1	10412.7	9606.8	9398.3	11363.0	11391.1	11383.0
32.5°	9775.2	9827.3	10027.8	10112.0	9173.8	8508.2	8159.4	9831.3	10404.7	10392.7
35°	7100.9	7100.9	7754.4	8969.3	8039.1	7537.9	7349.5	8335.8	9430.4	9470.5
37.5°	5837.9	5857.9	5986.2	6539.5	6936.5	6760.1	6703.9	7016.7	8179.4	8243.6
40°	5252.5	5252.5	5252.5	5023.9	5011.9	6090.5	6058.4	5958.1	7064.8	7205.1
42.5°	4719.2	4731.2	4739.3	4161.9	3841.1	5264.5	5192.3	5040.0	6066.4	6230.8
45°	4169.9	4190.0	4214.0	3480.3	3339.9	3789.0	4394.4	4226.0	5080.1	5292.6
47.5°	2546.0	2578.1	3123.4	2951.0	2967.0	2922.9	3584.5	3556.4	4165.9	4466.6
50°	1720.1	1732.1	1784.2	1872.4	2546.0	2297.5	2538.0	2943.0	3163.5	3620.6
52.5°	1443.4	1463.5	1335.2	1214.9	1672.0	1796.3	1772.2	2185.2	2273.4	2838.7
55°	1014.4	1078.6	1018.4	1006.4	950.3	1395.3	1343.2	1680.0	1736.1	2157.1
57.5°	104.2	120.3	208.5	749.8	621.5	789.9	958.3	1230.9	1287.1	1591.8
60°	8.0	8.0	20.0	104.2	453.1	473.1	661.6	757.8	866.1	1110.6
62.5°	0.0	4.0	8.0	16.0	72.2	252.6	332.8	396.9	521.2	717.7
65°	0.0	0.0	4.0	12.0	16.0	96.2	128.3	208.5	284.7	445.1
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	44.1	76.2	152.4	252.6
70°	0.0	0.0	4.0	8.0	12.0	20.0	32.1	48.1	68.2	136.3
72.5°	0.0	0.0	4.0	4.0	8.0	20.0	24.1	32.1	48.1	68.2
75°	0.0	0.0	4.0	4.0	12.0	24.1	20.0	24.1	32.1	44.1
77.5°	0.0	0.0	4.0	8.0	12.0	24.1	20.0	24.1	24.1	28.1
80°	0.0	0.0	4.0	8.0	16.0	28.1	24.1	24.1	20.0	20.0
82.5°	0.0	0.0	4.0	12.0	16.0	36.1	36.1	32.1	16.0	12.0
85°	0.0	0.0	8.0	16.0	24.1	40.1	40.1	32.1	12.0	8.0
87.5°	0.0	0.0	8.0	12.0	20.0	28.1	40.1	32.1	12.0	4.0
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°
21667.5	0°	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5	21667.5
21599.3	2.5°	21707.6	21683.5	21763.7	21795.8	21839.9	21671.5	21567.2	21571.2	21378.8
21354.7	5°	21483.0	21487.0	21591.3	21583.3	21627.4	21535.1	21495.0	21426.9	21258.5
21046.0	7.5°	21198.3	21162.3	21262.5	21338.7	21226.4	21290.6	21198.3	21230.4	21130.2
20773.3	10°	20977.8	20893.6	20985.8	21038.0	21042.0	20977.8	20889.6	20805.4	20769.3
20348.3	12.5°	20488.7	20380.4	20536.8	20608.9	20596.9	20472.6	20372.4	20392.4	20276.2
19602.6	15°	19815.1	19819.1	19931.3	19999.5	19935.3	19907.3	19915.3	19867.2	19766.9
18572.1	17.5°	18784.6	18844.8	19141.5	19305.8	19341.9	19285.8	19257.7	19201.6	19101.4
16928.2	20°	17068.5	17429.4	17958.6	18467.9	18568.1	18552.1	18451.8	18427.8	18371.6
15300.3	22.5°	15561.0	15829.6	16443.0	17236.9	17645.9	17686.0	17565.7	17529.6	17469.5
13844.9	25°	14001.3	14289.9	14843.3	15705.3	16551.3	16723.7	16703.7	16595.4	16531.3
12553.8	27.5°	12686.1	12974.8	13476.0	14253.9	15160.0	15713.3	15765.4	15593.0	15589.0
11403.1	30°	11499.3	11896.3	12277.2	12910.7	13788.7	14618.7	14706.9	14586.6	14598.7
10348.6	32.5°	10569.1	10897.9	11222.7	11647.7	12377.4	13343.7	13688.5	13576.2	13532.1
9470.5	35°	9618.8	9843.4	10176.2	10565.1	11062.3	12020.5	12618.0	12533.8	12489.7
8283.7	37.5°	8536.3	8921.2	9161.8	9598.8	9987.7	10749.5	11591.5	11579.5	11487.3
7273.3	40°	7425.6	7830.6	8195.5	8636.5	8937.2	9542.7	10476.9	10472.9	10484.9
6226.8	42.5°	6419.2	6792.1	7233.2	7714.3	8003.0	8444.1	9446.4	9502.6	9570.7
5364.7	45°	5509.1	5845.9	6254.9	6840.2	7189.1	7441.7	8331.8	8588.4	8584.4
4594.9	47.5°	4691.1	5007.9	5352.7	5922.1	6367.1	6595.7	7333.4	7698.3	7674.2
3769.0	50°	3937.4	4218.0	4578.9	4991.9	5589.3	5789.7	6339.1	6820.2	6784.1
3003.1	52.5°	3167.5	3556.4	3861.2	4238.1	4867.6	5064.0	5489.0	5958.1	5930.1
2253.4	55°	2469.9	2846.8	3215.6	3540.4	4069.7	4362.4	4667.1	5148.2	5140.2
1764.2	57.5°	1868.4	2281.4	2630.2	2939.0	3360.0	3720.8	3965.4	4402.5	4458.6
1206.9	60°	1383.3	1700.0	2076.9	2421.8	2754.5	3127.4	3291.8	3720.8	3744.9
826.0	62.5°	942.2	1291.1	1659.9	1972.7	2221.3	2606.2	2754.5	3107.4	3151.5
529.3	65°	653.6	878.1	1299.1	1523.6	1828.3	2157.1	2305.5	2586.1	2674.4
304.7	67.5°	433.0	625.5	1014.4	1218.9	1519.6	1744.1	1932.6	2161.1	2257.4
192.5	70°	236.6	461.1	725.7	962.3	1222.9	1439.4	1623.9	1808.3	1892.5
88.2	72.5°	160.4	308.7	505.2	761.8	986.3	1198.8	1363.2	1499.6	1503.6
52.1	75°	80.2	208.5	384.9	589.4	769.8	978.3	1126.7	1206.9	1110.6
32.1	77.5°	48.1	152.4	312.7	473.1	625.5	789.9	874.1	918.2	761.8
24.1	80°	28.1	108.3	244.6	376.9	433.0	581.4	661.6	673.6	509.2
16.0	82.5°	20.0	80.2	192.5	276.7	264.6	409.0	497.2	481.1	324.8
12.0	85°	12.0	56.1	120.3	172.4	160.4	268.6	288.7	296.7	188.4
8.0	87.5°	8.0	32.1	64.2	92.2	76.2	116.3	116.3	140.3	92.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21667.5
21130.2
21218.4
20961.8
20608.9
20175.9
19666.7
19057.3
18243.3
17453.4
16463.1
15581.0
14538.5
13536.1
12429.5
11563.5
10484.9
9534.6
8592.4
7682.2
6816.2
5990.2
5160.3
4434.5
3781.0
3159.5
2654.3
2245.3
1860.4
1467.5
1038.5
733.7
477.1
300.7
172.4
80.2
0.0

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