

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: P638687

Luminaire Tested: **EPH-VN-07-E-740-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-740-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53027.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

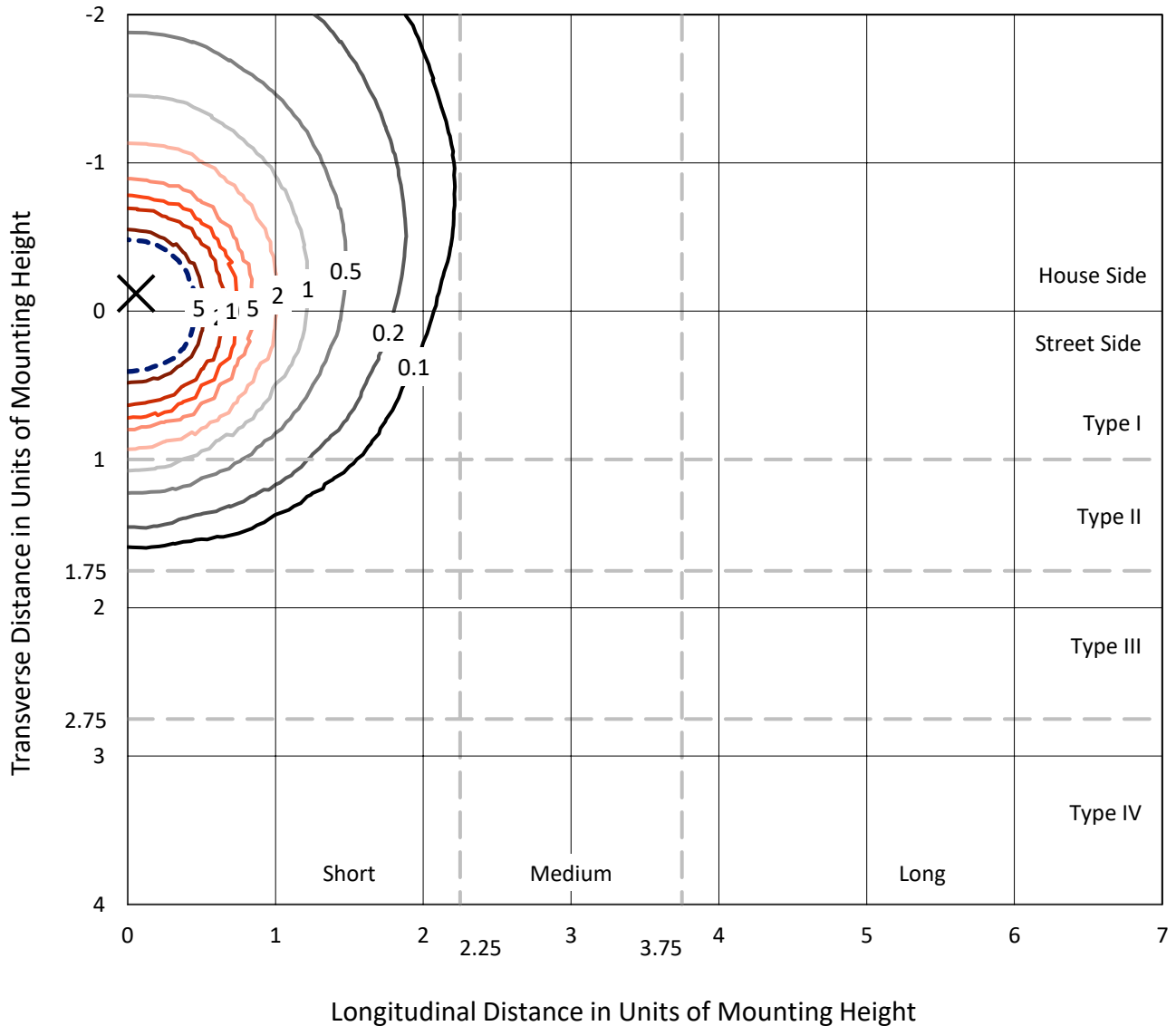
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

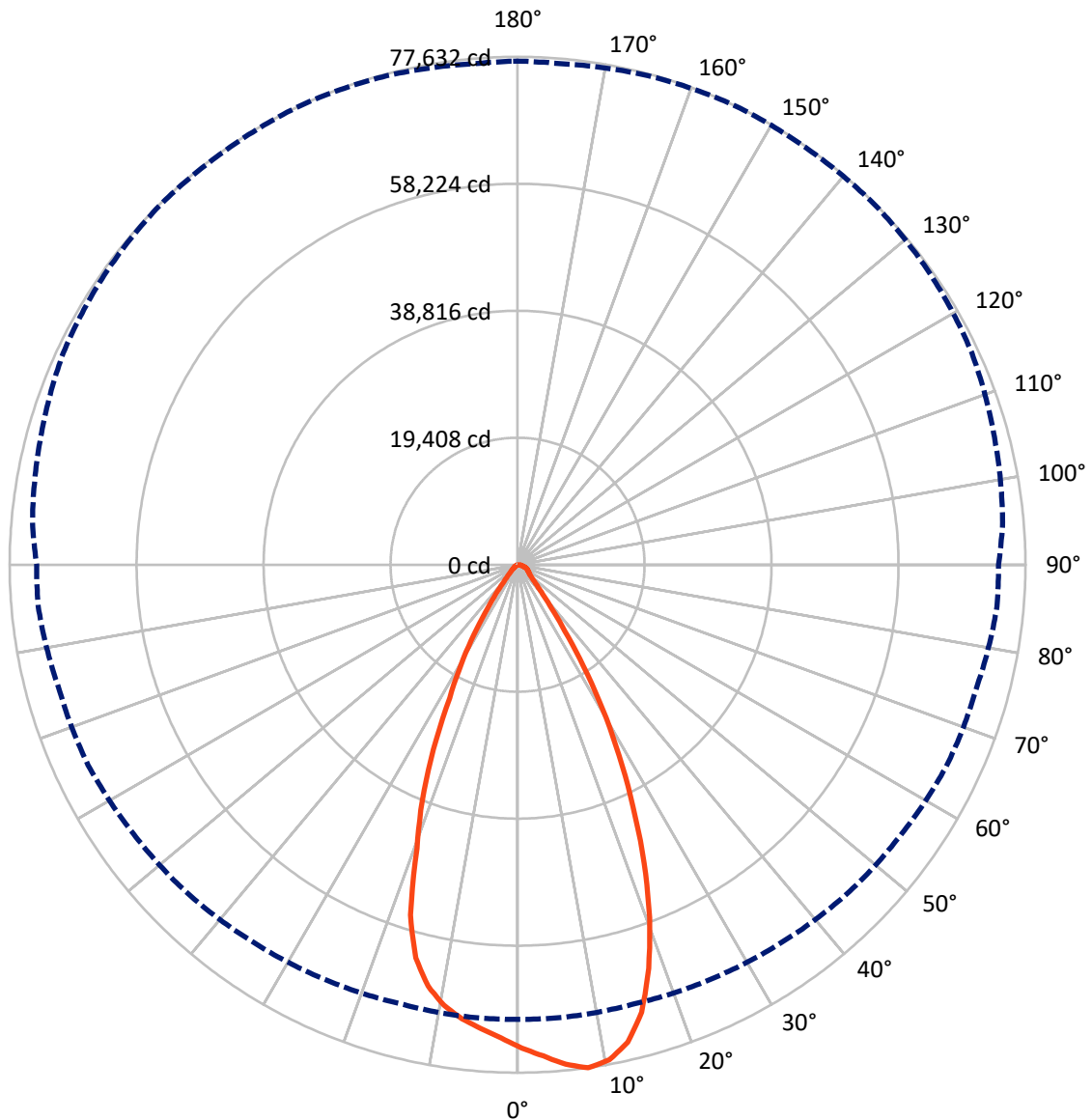
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 187.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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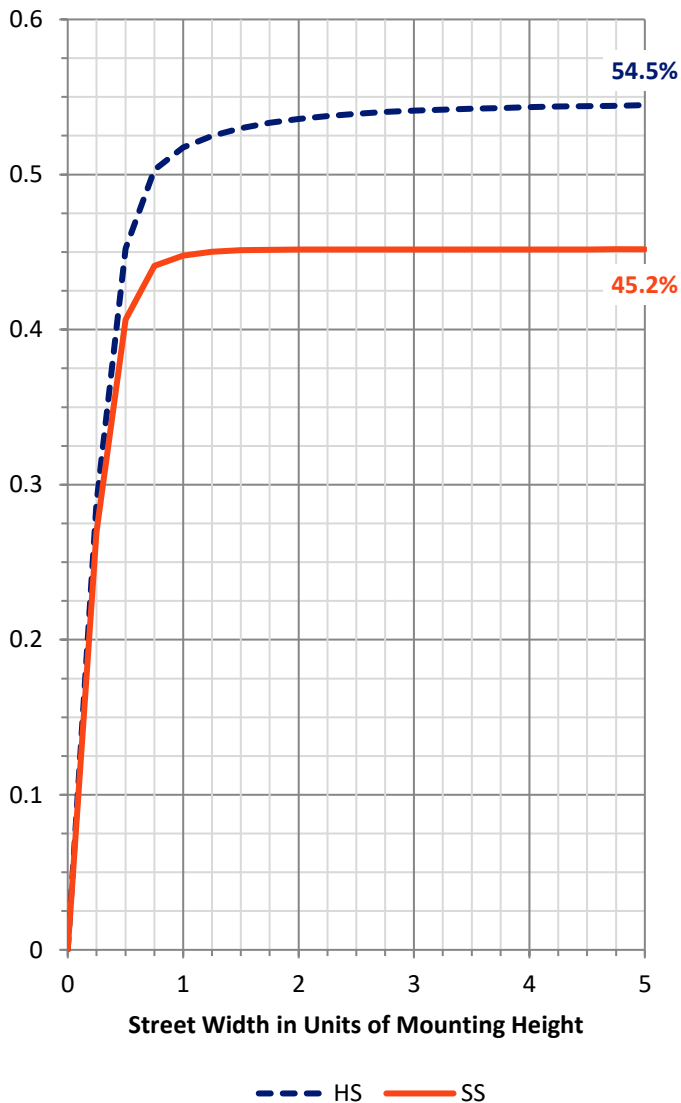
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29272.9	0.0	29272.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	23754.2	0.0	23754.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	53027.2	0.0	53027.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7044.1	13.3
10°-20°	18265.3	34.4
20°-30°	16736.1	31.6
30°-40°	6761.4	12.8
40°-50°	1983.5	3.7
50°-60°	1109.0	2.1
60°-70°	673.6	1.3
70°-80°	342.2	0.6
80°-90°	111.9	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°	53027.2	100.0
0°-180°	53027.2	100.0

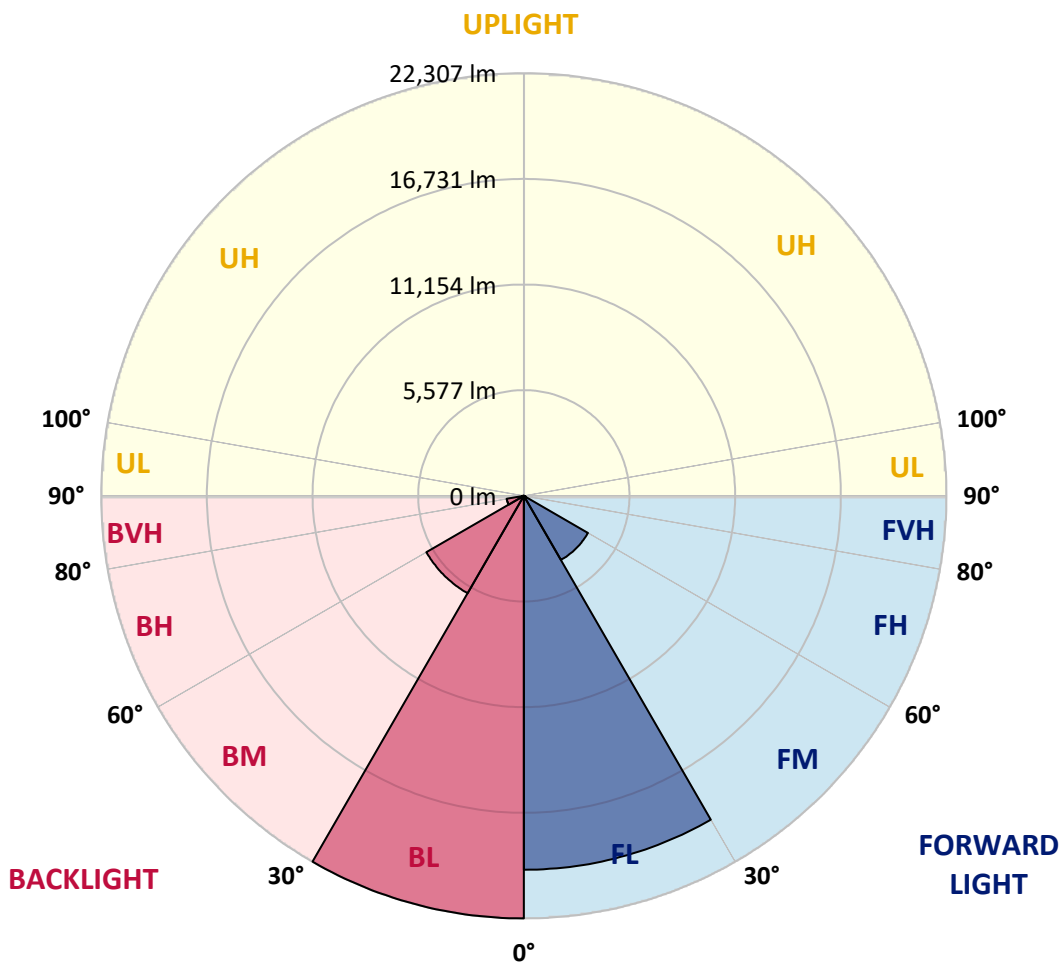


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19738.1	37.2			
FM (30°-60°)	3911.7	7.4			
FH (60°-80°)	94.7	0.2			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	22307.5	42.1	B5		
BM (30°-60°)	5942.2	11.2	B4/8500		
BH (60°-80°)	921.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	102.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0
2.5°	72268.9	72513.5	72024.3	72348.4	72599.1	73198.4	73247.3	73455.2	73528.5	74072.8
5°	70899.3	71088.8	70691.4	71125.5	71480.1	72012.1	72421.8	72996.6	73314.5	73956.6
7.5°	69474.5	69517.3	69437.9	69896.5	70428.4	71162.2	71669.7	72421.8	72617.5	73534.7
10°	67750.2	67438.4	67591.2	68263.8	69058.7	70183.8	70532.4	71284.5	71633.0	72568.6
12.5°	64998.6	65157.6	64968.1	65824.1	66484.5	67762.4	68129.3	68887.5	69554.0	70379.5
15°	61121.9	61030.2	61415.4	62081.9	62797.4	63812.4	64405.5	65231.0	65738.5	66594.5
17.5°	52408.6	52720.4	54310.2	55979.5	57447.0	58633.3	59342.6	60027.4	60394.3	61323.7
20°	45260.6	44869.2	45083.2	46024.9	50201.2	52017.2	52763.2	52928.3	53081.2	53814.9
22.5°	37268.7	37140.3	37855.7	38913.6	39904.1	44092.7	45107.7	44722.5	45040.4	45731.4
25°	27674.9	28323.0	28958.9	30989.0	32273.1	34327.6	36253.7	36424.9	36541.1	36975.2
27.5°	22526.3	22300.1	22287.9	22856.5	24752.1	26464.2	28102.9	28482.0	28414.7	28830.5
30°	17708.0	17634.6	17377.8	17512.3	17322.8	18845.3	19615.8	21175.0	21089.4	21101.6
32.5°	12773.5	12498.3	12394.4	12596.2	12400.5	12259.9	12932.5	14693.5	14662.9	14785.2
35°	7728.9	7692.2	7777.8	7955.1	7563.8	7551.6	7692.2	9349.3	9551.1	9746.7
37.5°	4268.0	4231.3	4298.6	4952.9	4824.5	4708.3	4745.0	5619.4	6200.2	6347.0
40°	2812.7	2806.6	2855.5	2971.7	3191.8	3149.0	3167.4	3558.7	4109.0	4237.4
42.5°	1883.3	1889.4	1920.0	2054.5	2085.1	2305.2	2268.5	2360.3	2873.9	2983.9
45°	1504.2	1498.1	1516.4	1455.3	1492.0	1718.2	1742.7	1748.8	2189.0	2256.3
47.5°	1186.2	1186.2	1204.6	1125.1	1106.7	1247.4	1375.8	1394.1	1748.8	1840.5
50°	831.6	831.6	923.3	886.6	929.4	972.2	1112.9	1131.2	1430.8	1528.7
52.5°	611.5	623.7	635.9	642.0	782.7	776.6	898.9	984.5	1082.3	1253.5
55°	464.7	476.9	446.4	476.9	580.9	648.2	672.6	794.9	862.2	1051.7
57.5°	305.7	336.3	311.8	366.9	391.3	501.4	538.1	654.3	697.1	862.2
60°	42.8	48.9	79.5	256.8	275.2	330.2	415.8	519.7	562.5	703.2
62.5°	6.1	6.1	18.3	42.8	183.4	220.1	311.8	360.8	415.8	525.9
65°	0.0	0.0	6.1	12.2	36.7	128.4	159.0	195.7	287.4	379.1
67.5°	0.0	0.0	6.1	12.2	18.3	42.8	67.3	128.4	165.1	262.9
70°	0.0	0.0	6.1	12.2	18.3	24.5	36.7	48.9	97.8	152.9
72.5°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	36.7	42.8	97.8
75°	0.0	0.0	6.1	12.2	18.3	30.6	36.7	36.7	36.7	42.8
77.5°	0.0	0.0	6.1	12.2	24.5	36.7	42.8	36.7	30.6	30.6
80°	0.0	0.0	6.1	18.3	30.6	42.8	48.9	36.7	24.5	18.3
82.5°	0.0	0.0	6.1	18.3	30.6	42.8	48.9	42.8	24.5	18.3
85°	0.0	0.0	6.1	18.3	24.5	30.6	48.9	42.8	24.5	12.2
87.5°	0.0	0.0	0.0	6.1	6.1	12.2	24.5	18.3	12.2	6.1
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°
73871.0	0°	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0	73871.0
74060.5	2.5°	74610.8	74886.0	75369.1	75503.6	75919.4	75442.4	75179.5	75204.0	74635.3
73877.1	5°	74610.8	75240.6	76084.5	76488.0	76793.8	76769.3	76702.0	76530.8	76115.0
73510.2	7.5°	74415.2	75442.4	76604.2	77142.3	77509.2	77478.6	77631.5	77356.3	76848.8
72855.9	10°	73785.4	74678.1	76108.9	76549.2	77142.3	77154.5	76965.0	77020.0	76115.0
70465.1	12.5°	71804.2	72501.3	73754.8	74256.2	74977.7	75093.9	74886.0	74806.5	73950.5
66545.6	15°	67970.3	68373.9	69633.5	70134.9	70850.3	70752.5	70960.4	70874.8	70122.7
61250.4	17.5°	62363.2	62491.6	63812.4	64234.3	64906.9	65169.8	64858.0	65255.4	64607.3
53943.4	20°	54322.5	55013.4	56499.3	57147.4	57538.8	58009.6	57599.9	58046.3	57288.1
45077.1	22.5°	46165.5	46575.2	47920.4	48856.0	49583.6	49675.3	49522.5	49834.3	48813.2
37262.6	25°	37256.5	37935.2	38999.2	40222.1	40937.5	41377.8	40980.3	41182.1	41017.0
28897.8	27.5°	29387.0	29992.3	30793.3	31704.4	32780.6	33355.4	33037.4	33379.8	32572.7
21548.0	30°	21566.3	21872.1	22777.0	23743.1	24923.3	25620.3	25650.9	25999.5	25522.5
15097.0	32.5°	15207.1	15476.2	16032.6	16674.6	17799.7	18576.3	18454.0	18502.9	18209.4
9838.5	35°	9887.4	10248.1	10645.6	10951.3	11630.0	12486.1	12418.8	12357.7	12155.9
6469.3	37.5°	6609.9	6750.6	6970.7	7245.8	7686.1	8224.2	8401.5	8181.4	8095.8
4365.9	40°	4469.8	4714.4	4861.1	5069.0	5276.9	5729.4	5851.7	5808.9	5723.3
3057.3	42.5°	3173.5	3363.1	3546.5	3748.3	3858.3	4139.6	4378.1	4310.8	4274.1
2323.6	45°	2409.2	2580.4	2794.4	2947.3	3057.3	3222.4	3448.7	3473.1	3418.1
1865.0	47.5°	1932.2	2085.1	2256.3	2445.9	2574.3	2678.2	2873.9	2947.3	2910.6
1571.5	50°	1638.7	1754.9	1920.0	2109.6	2250.2	2341.9	2513.1	2592.6	2568.1
1314.6	52.5°	1394.1	1534.8	1687.6	1846.6	2017.8	2109.6	2268.5	2384.7	2366.4
1088.4	55°	1155.7	1339.1	1498.1	1657.1	1852.7	1944.5	2085.1	2238.0	2207.4
923.3	57.5°	1008.9	1161.8	1326.9	1479.7	1687.6	1809.9	1938.3	2097.3	2091.2
758.2	60°	843.8	996.7	1180.1	1308.5	1528.7	1699.9	1816.0	1981.1	1993.4
574.8	62.5°	672.6	862.2	1002.8	1180.1	1381.9	1583.7	1693.8	1858.9	1920.0
440.3	65°	501.4	709.3	868.3	1045.6	1235.2	1461.4	1559.2	1724.3	1785.5
318.0	67.5°	373.0	532.0	733.8	886.6	1100.6	1296.3	1412.5	1565.3	1608.2
189.6	70°	281.3	409.7	611.5	746.0	966.1	1125.1	1241.3	1357.5	1412.5
128.4	72.5°	165.1	305.7	483.1	642.0	831.6	966.1	1051.7	1143.4	1180.1
61.1	75°	116.2	232.4	379.1	532.0	672.6	782.7	862.2	941.7	978.3
30.6	77.5°	61.1	171.2	299.6	428.0	525.9	617.6	697.1	758.2	782.7
24.5	80°	36.7	122.3	244.6	336.3	403.6	483.1	562.5	605.3	599.2
18.3	82.5°	24.5	97.8	177.3	244.6	293.5	354.6	409.7	440.3	440.3
12.2	85°	18.3	67.3	122.3	189.6	195.7	244.6	256.8	287.4	293.5
12.2	87.5°	12.2	42.8	67.3	110.1	103.9	128.4	134.5	152.9	165.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
73871.0
74176.7
76249.6
76965.0
75852.1
73754.8
70361.2
64448.3
57226.9
48672.5
40913.1
32780.6
25608.1
18374.5
11978.6
8077.4
5735.5
4243.6
3412.0
2892.2
2562.0
2354.1
2207.4
2085.1
1993.4
1913.9
1779.4
1608.2
1400.3
1167.9
966.1
776.6
593.1
434.1
287.4
159.0
0.0

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