

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: P638747

Luminaire Tested: **EPH-VN-07-E-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638747
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-750-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48690.6 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

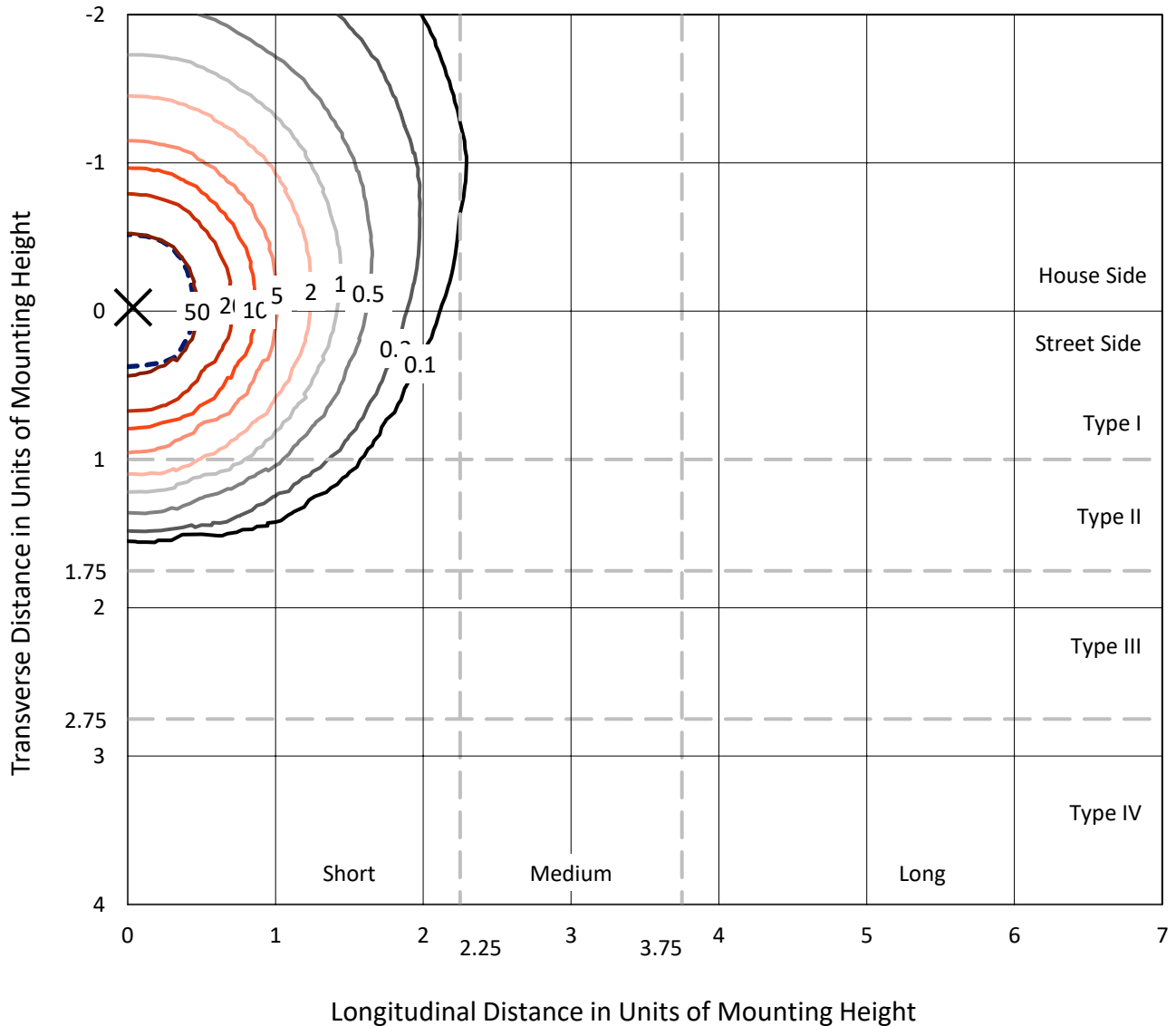
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

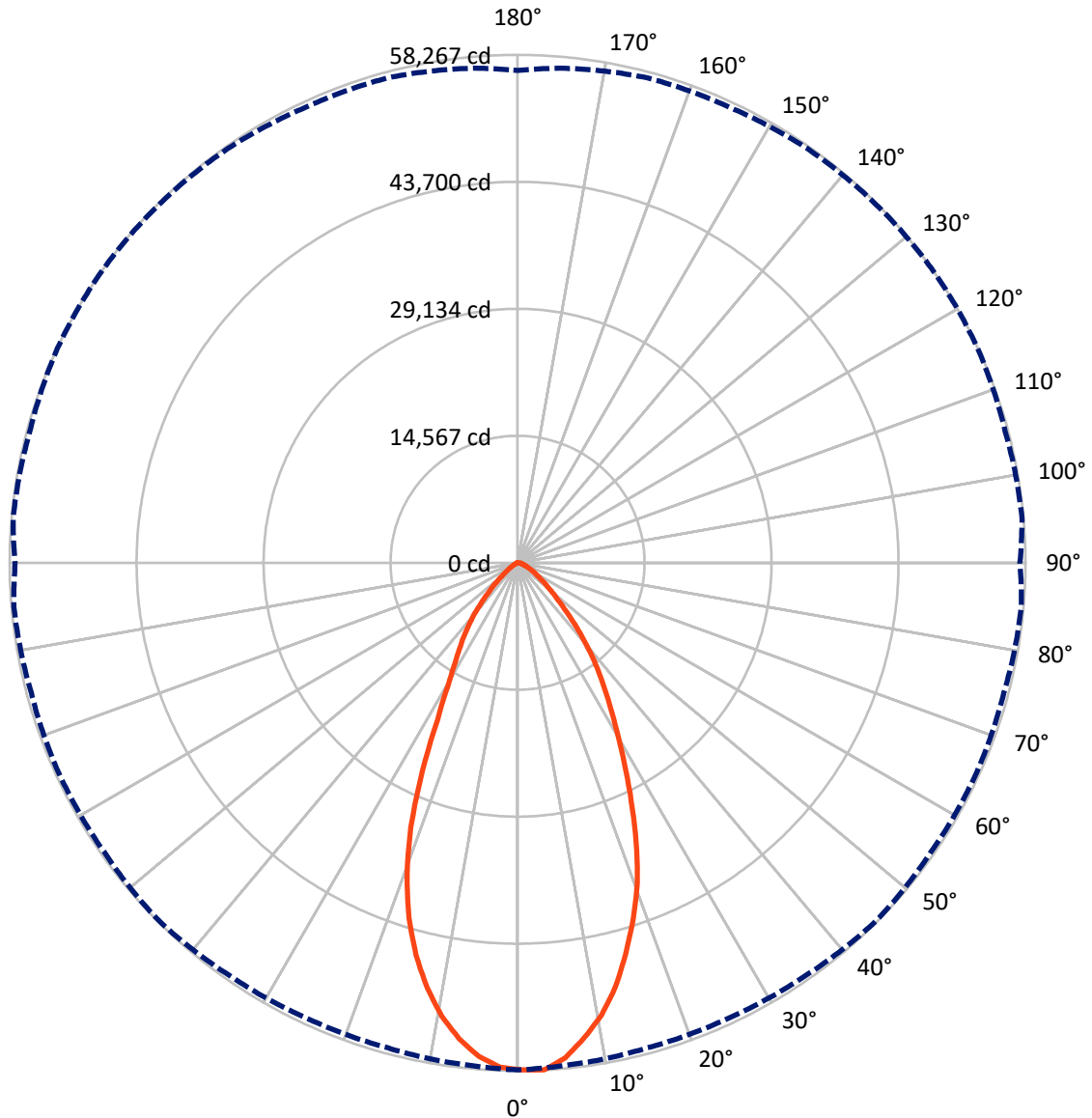
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 145.4 fc
 Type I - Short - N/A

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CATALOG NUMBER: EPH-VN-07-E-750-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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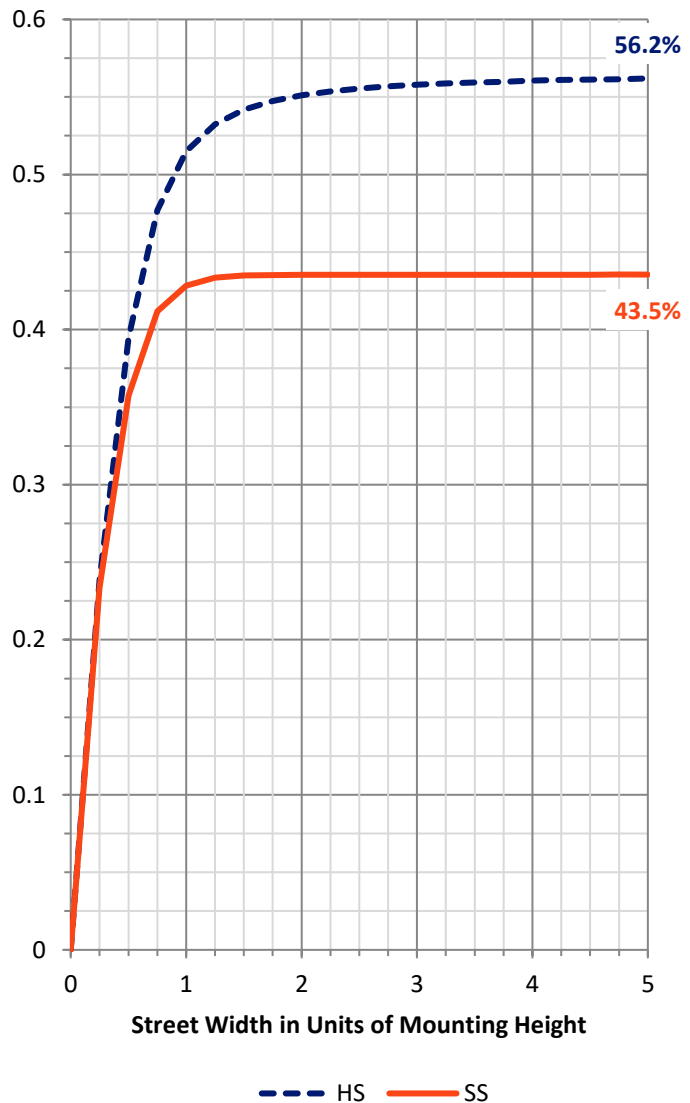
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27629.0	0.0	27629.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	21061.6	0.0	21061.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	48690.6	0.0	48690.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5282.4	10.8
10°-20°	12592.0	25.9
20°-30°	12824.7	26.3
30°-40°	9563.3	19.6
40°-50°	4996.1	10.3
50°-60°	2101.4	4.3
60°-70°	858.2	1.8
70°-80°	361.2	0.7
80°-90°	111.3	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°	48690.6	100.0
0°-180°	48690.6	100.0

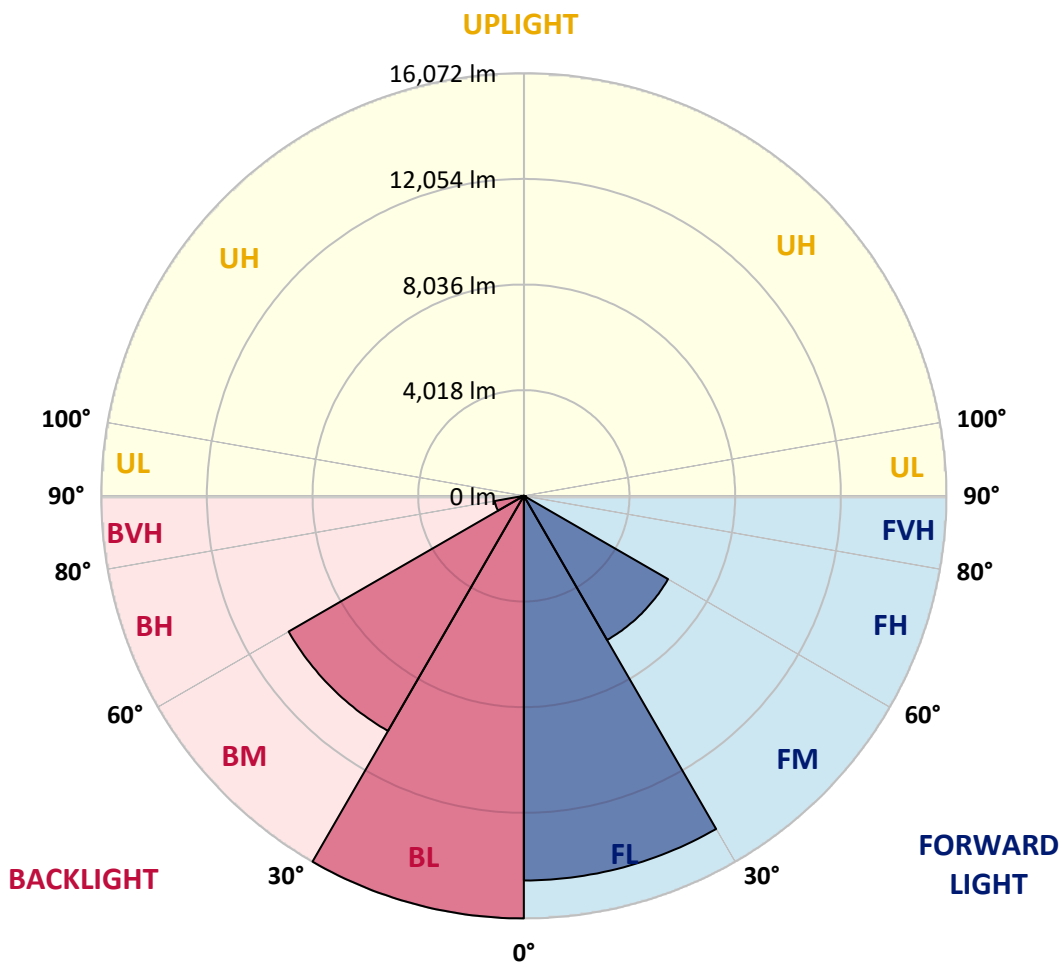


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14627.3	30.0			
FM (30°-60°)	6332.4	13.0			
FH (60°-80°)	91.6	0.2			G0/660
FVH (80°-90°)	10.3	0.0			G1/100
BL (0°-30°)	16071.8	33.0	B5		
BM (30°-60°)	10328.5	21.2	B5		
BH (60°-80°)	1127.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	100.9	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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5
2.5°	58179.7	57942.1	57604.3	57573.0	57748.2	58129.7	57885.8	57898.3	57748.2	58004.6
5°	57266.6	57041.4	56810.0	56503.5	56760.0	56922.6	56797.5	56659.9	56466.0	56716.2
7.5°	55540.3	55415.2	55071.2	54933.6	55090.0	55271.4	55002.4	54964.9	54696.0	55021.2
10°	52900.9	52850.9	52513.1	52431.8	52569.4	52844.6	52725.8	52700.8	52531.9	52500.6
12.5°	50161.4	49967.5	49548.5	49523.4	49729.8	50142.6	49823.7	49517.2	49611.0	49692.3
15°	43106.3	42899.9	43938.1	45570.6	46427.5	46396.2	46490.0	46121.0	46008.4	46045.9
17.5°	34268.6	33918.4	34293.6	36820.5	40892.2	43256.4	42605.9	41811.6	41386.3	41104.8
20°	29577.7	29596.5	29527.7	30178.2	32717.5	38108.9	37952.5	36420.2	35863.5	35632.1
22.5°	26725.6	26619.3	26469.2	26675.6	27357.4	30522.2	32642.4	31235.2	31041.3	30784.8
25°	23929.9	23929.9	23748.5	23954.9	24148.8	24192.6	26319.1	26894.5	26519.2	26519.2
27.5°	21509.4	21384.3	21303.0	21396.8	21140.3	19908.2	20177.1	23123.0	22866.6	22710.2
30°	19107.6	19070.1	18932.5	19057.6	18106.9	16718.4	16155.5	19514.2	19783.1	19726.8
32.5°	15773.9	15924.1	16537.0	16730.9	15104.7	13985.2	13447.3	16199.3	17275.0	17231.3
35°	10720.3	10845.4	11545.9	13860.1	12521.6	11721.0	11564.6	12884.4	14654.4	14823.3
37.5°	8537.4	8518.7	8718.8	9131.6	10063.6	9869.7	9825.9	10169.9	11952.4	12027.5
40°	7036.4	7011.3	7005.1	6667.3	6435.9	8206.0	8087.1	7880.7	9425.6	9575.7
42.5°	5672.9	5697.9	5716.6	4978.6	4640.9	6329.6	6260.8	6048.1	7392.9	7568.0
45°	4453.2	4447.0	4484.5	3708.9	3615.1	4046.7	4678.4	4509.5	5579.0	5766.7
47.5°	2307.9	2389.2	2895.9	2870.8	2914.6	2870.8	3540.1	3496.3	4196.8	4497.0
50°	1551.1	1576.1	1619.9	1626.2	2295.4	2114.0	2401.7	2720.7	2939.6	3402.5
52.5°	1200.9	1219.6	1107.1	1038.3	1407.3	1563.6	1576.1	1882.6	2051.5	2520.6
55°	669.2	750.5	806.8	813.1	775.6	1157.1	1150.8	1394.8	1526.1	1838.8
57.5°	87.6	106.3	162.6	525.4	519.1	644.2	806.8	1013.2	1088.3	1344.7
60°	6.3	12.5	18.8	81.3	344.0	375.3	550.4	631.7	756.8	944.4
62.5°	0.0	0.0	6.3	18.8	68.8	218.9	287.7	331.5	444.1	619.2
65°	0.0	0.0	6.3	12.5	25.0	81.3	112.6	181.4	262.7	381.5
67.5°	0.0	0.0	6.3	12.5	18.8	31.3	50.0	81.3	137.6	231.4
70°	0.0	0.0	6.3	12.5	18.8	25.0	37.5	50.0	75.1	125.1
72.5°	0.0	0.0	6.3	6.3	12.5	31.3	31.3	37.5	50.0	68.8
75°	0.0	0.0	6.3	12.5	18.8	31.3	31.3	31.3	37.5	43.8
77.5°	0.0	0.0	6.3	12.5	18.8	31.3	25.0	31.3	31.3	31.3
80°	0.0	0.0	6.3	12.5	18.8	31.3	37.5	31.3	25.0	25.0
82.5°	0.0	0.0	6.3	18.8	18.8	43.8	43.8	43.8	18.8	18.8
85°	0.0	0.0	12.5	18.8	31.3	50.0	50.0	37.5	18.8	12.5
87.5°	0.0	0.0	6.3	12.5	12.5	25.0	37.5	31.3	12.5	6.3
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°
58173.5	0°	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5	58173.5
57629.3	2.5°	58092.2	57935.8	58229.8	58267.3	58142.2	57985.8	57623.1	57591.8	56960.1
56353.4	5°	56991.4	56734.9	56922.6	57047.7	57003.9	56835.0	56684.9	56547.3	55978.1
54283.2	7.5°	54939.9	54846.1	54933.6	55027.4	55208.8	55027.4	54964.9	54821.0	54258.1
52244.2	10°	52663.2	52488.1	52819.6	52775.8	52725.8	52675.7	52413.0	52438.1	51775.1
49467.2	12.5°	49867.4	49573.5	49892.5	49930.0	49892.5	49717.3	49423.4	49548.5	48941.8
45714.4	15°	46108.5	46077.2	46308.6	46458.7	46565.1	46377.4	46277.3	46339.9	45977.1
40885.9	17.5°	41492.6	41899.2	42656.0	42912.4	42918.7	43112.5	43056.3	42981.2	42712.3
35538.3	20°	36063.7	36845.5	38008.8	39203.5	39547.5	39384.8	39309.8	39447.4	39047.1
30515.9	22.5°	31053.8	31723.0	33074.0	34819.0	35826.0	35926.1	35907.3	35788.5	35632.1
26494.2	25°	26800.7	27394.9	28689.6	30284.5	32217.1	32504.8	32517.4	32479.8	32342.2
22847.8	27.5°	23210.6	23929.9	24642.9	26068.9	28126.7	29315.0	29164.9	29121.1	29071.1
19770.6	30°	19958.2	20865.1	21534.4	22422.5	24267.6	25875.0	26031.4	25956.3	25837.5
17225.0	32.5°	17381.4	17919.3	18769.9	19370.3	20696.3	22516.3	23116.8	23060.5	22954.2
14929.6	35°	15142.2	15354.9	16024.1	16693.4	17575.3	19339.0	20227.2	20102.1	20083.3
12165.1	37.5°	12471.6	13184.6	13553.6	14229.1	14848.3	16218.0	17443.9	17387.6	17393.9
9782.1	40°	10069.8	10482.6	11214.4	11783.6	12352.7	13353.4	14716.9	14754.5	14742.0
7574.2	42.5°	7730.6	8130.9	8900.2	9519.4	10026.0	10645.2	11946.2	11990.0	12046.2
5898.0	45°	6035.6	6292.1	6855.0	7499.2	8037.1	8412.4	9400.6	9682.0	9688.3
4572.1	47.5°	4684.7	4978.6	5378.9	5998.1	6523.5	6792.4	7511.7	7893.2	7874.5
3508.8	50°	3677.7	3946.6	4271.9	4759.7	5328.9	5541.5	6073.2	6448.4	6429.7
2645.7	52.5°	2814.5	3158.5	3446.3	3821.5	4378.2	4559.6	4941.1	5372.6	5310.1
1938.9	55°	2132.8	2483.1	2752.0	3064.7	3571.3	3802.8	4065.5	4409.5	4422.0
1501.1	57.5°	1607.4	1970.2	2214.1	2533.1	2914.6	3171.1	3371.2	3740.2	3734.0
1025.7	60°	1150.8	1463.6	1757.5	2089.0	2383.0	2676.9	2814.5	3164.8	3177.3
725.5	62.5°	831.9	1125.8	1407.3	1695.0	1957.7	2245.4	2370.5	2645.7	2683.2
475.3	65°	581.7	788.1	1113.3	1332.2	1626.2	1838.8	2001.5	2239.1	2282.9
281.5	67.5°	375.3	569.2	881.9	1075.8	1344.7	1526.1	1695.0	1882.6	1938.9
181.4	70°	225.2	431.6	656.7	863.1	1107.1	1269.7	1432.3	1594.9	1626.2
87.6	72.5°	143.9	300.2	475.3	700.5	888.1	1063.3	1207.1	1326.0	1232.1
56.3	75°	81.3	206.4	375.3	550.4	719.3	888.1	1007.0	1069.5	856.9
37.5	77.5°	50.0	150.1	306.5	444.1	556.7	713.0	788.1	825.6	612.9
25.0	80°	31.3	112.6	256.4	362.8	362.8	525.4	612.9	644.2	444.1
18.8	82.5°	25.0	81.3	200.1	275.2	243.9	394.0	481.6	487.9	312.7
12.5	85°	18.8	62.5	125.1	181.4	168.9	275.2	281.5	312.7	206.4
12.5	87.5°	12.5	37.5	75.1	106.3	93.8	131.3	150.1	168.9	112.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
58173.5
56466.0
55521.6
54139.3
51549.9
48766.6
45539.3
42312.0
38759.4
35331.9
31879.4
28777.1
25687.4
22672.7
19876.9
17193.7
14523.0
11858.6
9525.7
7805.7
6429.7
5316.4
4422.0
3721.5
3146.0
2670.7
2270.4
1932.7
1601.2
1144.6
813.1
575.4
412.8
287.7
187.6
100.1
0.0

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