

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: P638682

Luminaire Tested: **EPH-VN-08-D-735-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638682
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-735-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51648.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

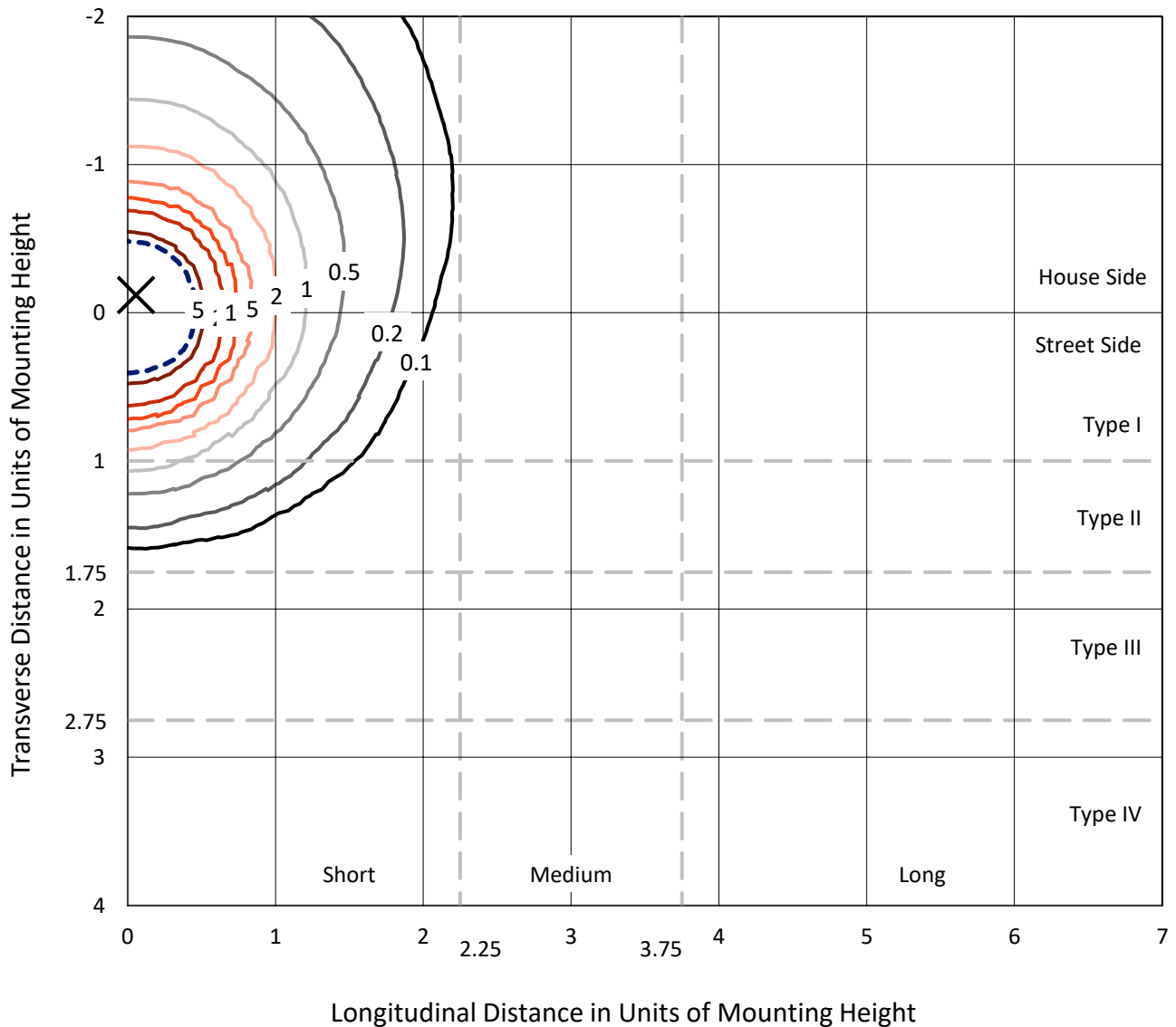
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

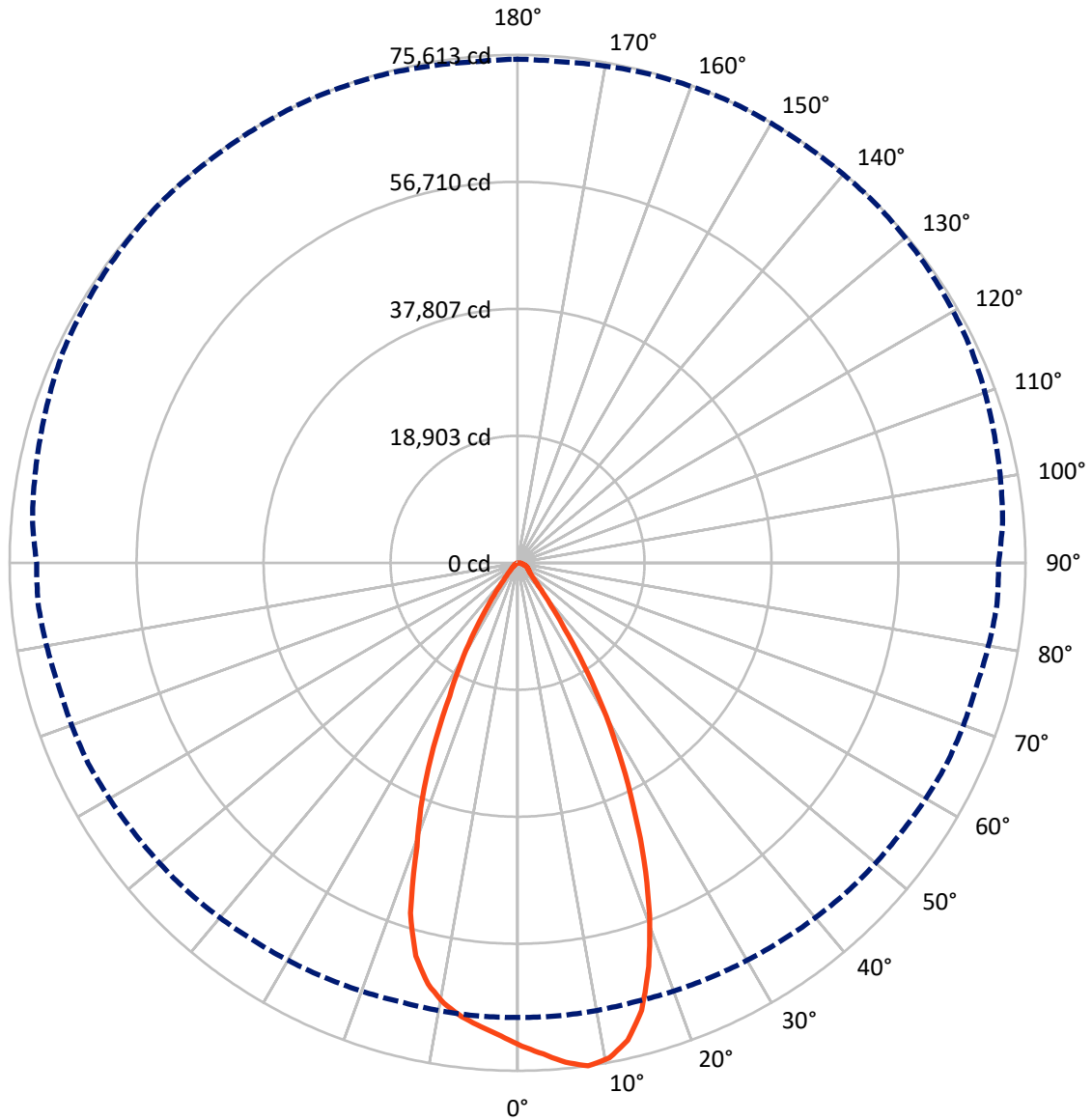
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 182.8 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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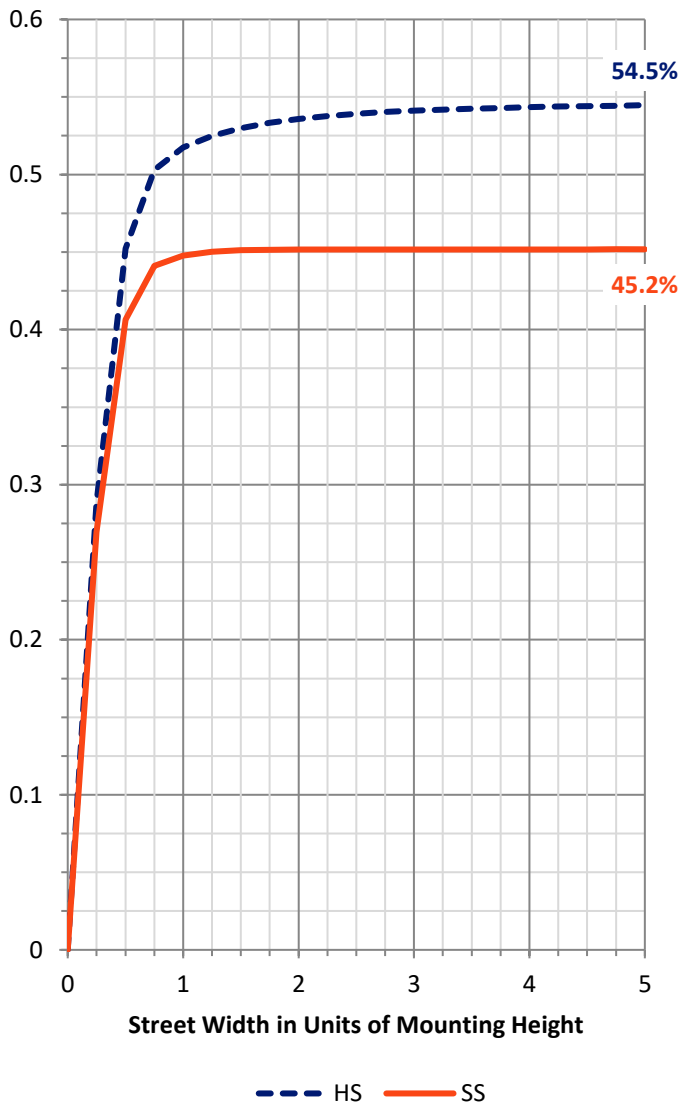
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28511.9	0.0	28511.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	23136.7	0.0	23136.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	51648.7	0.0	51648.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6861.0	13.3
10°-20°	17790.5	34.4
20°-30°	16301.1	31.6
30°-40°	6585.6	12.8
40°-50°	1931.9	3.7
50°-60°	1080.2	2.1
60°-70°	656.1	1.3
70°-80°	333.3	0.6
80°-90°	109.0	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°	51648.7	100.0
0°-180°	51648.7	100.0

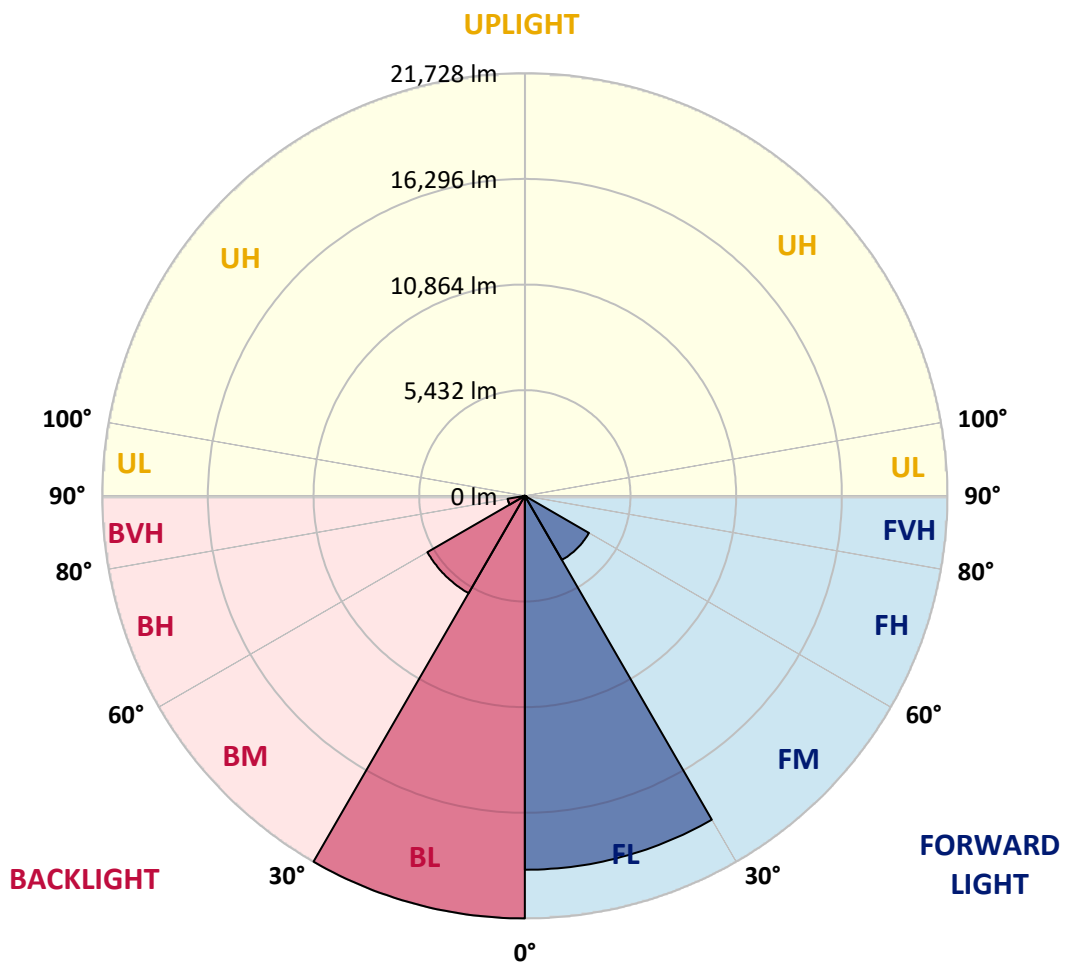


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19224.9	37.2			
FM (30°-60°)	3810.0	7.4			
FH (60°-80°)	92.3	0.2			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	21727.6	42.1	B5		
BM (30°-60°)	5787.7	11.2	B4/8500		
BH (60°-80°)	897.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	99.6	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6
2.5°	70390.2	70628.4	70152.0	70467.6	70711.8	71295.5	71343.1	71545.6	71617.1	72147.1
5°	69056.1	69240.8	68853.6	69276.5	69621.9	70140.1	70539.1	71098.9	71408.6	72034.0
7.5°	67668.5	67710.1	67632.7	68079.4	68597.5	69312.2	69806.5	70539.1	70729.7	71623.0
10°	65989.0	65685.2	65834.1	66489.2	67263.5	68359.3	68698.8	69431.3	69770.8	70682.0
12.5°	63308.9	63463.7	63279.1	64112.9	64756.1	66000.9	66358.2	67096.7	67745.9	68549.9
15°	59533.0	59443.7	59818.9	60468.0	61164.9	62153.5	62731.2	63535.2	64029.5	64863.3
17.5°	51046.2	51349.9	52898.4	54524.3	55953.6	57109.0	57799.9	58466.9	58824.3	59729.5
20°	44084.0	43702.8	43911.2	44828.4	48896.1	50665.0	51391.6	51552.4	51701.3	52416.0
22.5°	36299.9	36174.8	36871.6	37902.0	38866.8	42946.4	43935.1	43559.9	43869.6	44542.5
25°	26955.4	27586.7	28206.1	30183.4	31434.1	33435.2	35311.2	35478.0	35591.2	36014.0
27.5°	21940.7	21720.4	21708.5	22262.3	24108.6	25776.2	27372.3	27741.6	27676.1	28081.0
30°	17247.7	17176.2	16926.0	17057.1	16872.4	18355.4	19105.8	20624.5	20541.1	20553.1
32.5°	12441.4	12173.4	12072.2	12268.7	12078.1	11941.1	12596.3	14311.5	14281.7	14400.8
35°	7528.0	7492.2	7575.6	7748.3	7367.2	7355.3	7492.2	9106.2	9302.8	9493.4
37.5°	4157.1	4121.3	4186.8	4824.1	4699.0	4585.9	4621.6	5473.3	6039.1	6182.0
40°	2739.6	2733.7	2781.3	2894.5	3108.9	3067.2	3085.0	3466.2	4002.2	4127.3
42.5°	1834.4	1840.3	1870.1	2001.1	2030.9	2245.3	2209.6	2298.9	2799.2	2906.4
45°	1465.1	1459.1	1477.0	1417.5	1453.2	1673.5	1697.4	1703.3	2132.1	2197.6
47.5°	1155.4	1155.4	1173.3	1095.8	1078.0	1215.0	1340.0	1357.9	1703.3	1792.7
50°	810.0	810.0	899.3	863.6	905.3	947.0	1083.9	1101.8	1393.6	1488.9
52.5°	595.6	607.5	619.4	625.3	762.3	756.4	875.5	958.9	1054.2	1220.9
55°	452.6	464.5	434.8	464.5	565.8	631.3	655.1	774.2	839.8	1024.4
57.5°	297.8	327.6	303.7	357.3	381.2	488.4	524.1	637.3	678.9	839.8
60°	41.7	47.6	77.4	250.1	268.0	321.6	405.0	506.2	547.9	684.9
62.5°	6.0	6.0	17.9	41.7	178.7	214.4	303.7	351.4	405.0	512.2
65°	0.0	0.0	6.0	11.9	35.7	125.1	154.8	190.6	279.9	369.3
67.5°	0.0	0.0	6.0	11.9	17.9	41.7	65.5	125.1	160.8	256.1
70°	0.0	0.0	6.0	11.9	17.9	23.8	35.7	47.6	95.3	148.9
72.5°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	35.7	41.7	95.3
75°	0.0	0.0	6.0	11.9	17.9	29.8	35.7	35.7	35.7	41.7
77.5°	0.0	0.0	6.0	11.9	23.8	35.7	41.7	35.7	29.8	29.8
80°	0.0	0.0	6.0	17.9	29.8	41.7	47.6	35.7	23.8	17.9
82.5°	0.0	0.0	6.0	17.9	29.8	41.7	47.6	41.7	23.8	17.9
85°	0.0	0.0	6.0	17.9	23.8	29.8	47.6	41.7	23.8	11.9
87.5°	0.0	0.0	0.0	6.0	6.0	11.9	23.8	17.9	11.9	6.0
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°
71950.6	0°	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6	71950.6
72135.2	2.5°	72671.2	72939.2	73409.7	73540.8	73945.7	73481.2	73225.1	73248.9	72695.1
71956.6	5°	72671.2	73284.7	74106.6	74499.6	74797.4	74773.6	74708.1	74541.3	74136.3
71599.2	7.5°	72480.7	73481.2	74612.8	75136.9	75494.2	75464.4	75613.3	75345.3	74851.0
70962.0	10°	71867.2	72736.7	74130.4	74559.2	75136.9	75148.8	74964.2	75017.8	74136.3
68633.3	12.5°	69937.6	70616.5	71837.4	72325.8	73028.6	73141.7	72939.2	72861.8	72028.0
64815.7	15°	66203.4	66596.4	67823.3	68311.7	69008.5	68913.2	69115.7	69032.3	68299.8
59658.1	17.5°	60742.0	60867.1	62153.5	62564.4	63219.6	63475.7	63171.9	63559.0	62927.7
52541.0	20°	52910.3	53583.3	55030.5	55661.8	56043.0	56501.6	56102.5	56537.3	55798.8
43905.3	22.5°	44965.4	45364.4	46674.7	47585.9	48294.6	48384.0	48235.1	48538.8	47544.2
36293.9	25°	36288.0	36949.1	37985.3	39176.5	39873.3	40302.1	39915.0	40111.5	39950.7
28146.6	27.5°	28623.0	29212.6	29992.8	30880.2	31928.4	32488.2	32178.5	32512.1	31725.9
20987.8	30°	21005.7	21303.5	22184.9	23125.9	24275.4	24954.3	24984.1	25323.6	24859.0
14704.6	32.5°	14811.8	15073.8	15615.8	16241.1	17337.0	18093.4	17974.2	18021.9	17736.0
9582.7	35°	9630.3	9981.7	10368.8	10666.6	11327.7	12161.5	12096.0	12036.4	11839.9
6301.1	37.5°	6438.1	6575.1	6789.5	7057.5	7486.3	8010.4	8183.1	7968.7	7885.3
4252.4	40°	4353.6	4591.8	4734.8	4937.3	5139.8	5580.5	5699.6	5657.9	5574.5
2977.8	42.5°	3091.0	3275.6	3454.3	3650.8	3758.0	4032.0	4264.3	4198.8	4163.0
2263.2	45°	2346.5	2513.3	2721.7	2870.6	2977.8	3138.6	3359.0	3382.8	3329.2
1816.5	47.5°	1882.0	2030.9	2197.6	2382.3	2507.3	2608.6	2799.2	2870.6	2834.9
1530.6	50°	1596.1	1709.3	1870.1	2054.7	2191.7	2281.0	2447.8	2525.2	2501.4
1280.5	52.5°	1357.9	1494.9	1643.8	1798.6	1965.4	2054.7	2209.6	2322.7	2304.8
1060.1	55°	1125.6	1304.3	1459.1	1614.0	1804.6	1893.9	2030.9	2179.8	2150.0
899.3	57.5°	982.7	1131.6	1292.4	1441.3	1643.8	1762.9	1888.0	2042.8	2036.8
738.5	60°	821.9	970.8	1149.4	1274.5	1488.9	1655.7	1768.8	1929.6	1941.6
559.8	62.5°	655.1	839.8	976.7	1149.4	1346.0	1542.5	1649.7	1810.5	1870.1
428.8	65°	488.4	690.9	845.7	1018.4	1203.0	1423.4	1518.7	1679.5	1739.1
309.7	67.5°	363.3	518.1	714.7	863.6	1072.0	1262.6	1375.8	1524.7	1566.3
184.6	70°	274.0	399.0	595.6	726.6	941.0	1095.8	1209.0	1322.2	1375.8
125.1	72.5°	160.8	297.8	470.5	625.3	810.0	941.0	1024.4	1113.7	1149.4
59.6	75°	113.2	226.3	369.3	518.1	655.1	762.3	839.8	917.2	952.9
29.8	77.5°	59.6	166.8	291.8	416.9	512.2	601.5	678.9	738.5	762.3
23.8	80°	35.7	119.1	238.2	327.6	393.1	470.5	547.9	589.6	583.7
17.9	82.5°	23.8	95.3	172.7	238.2	285.9	345.4	399.0	428.8	428.8
11.9	85°	17.9	65.5	119.1	184.6	190.6	238.2	250.1	279.9	285.9
11.9	87.5°	11.9	41.7	65.5	107.2	101.2	125.1	131.0	148.9	160.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
71950.6
72248.4
74267.4
74964.2
73880.2
71837.4
68532.0
62772.9
55739.2
47407.2
39849.5
31928.4
24942.4
17896.8
11667.2
7867.5
5586.4
4133.2
3323.3
2817.0
2495.4
2292.9
2150.0
2030.9
1941.6
1864.1
1733.1
1566.3
1363.9
1137.5
941.0
756.4
577.7
422.9
279.9
154.8
0.0

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