

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: P638686

Luminaire Tested: **EPH-VN-06-E-740-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-740-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49703.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

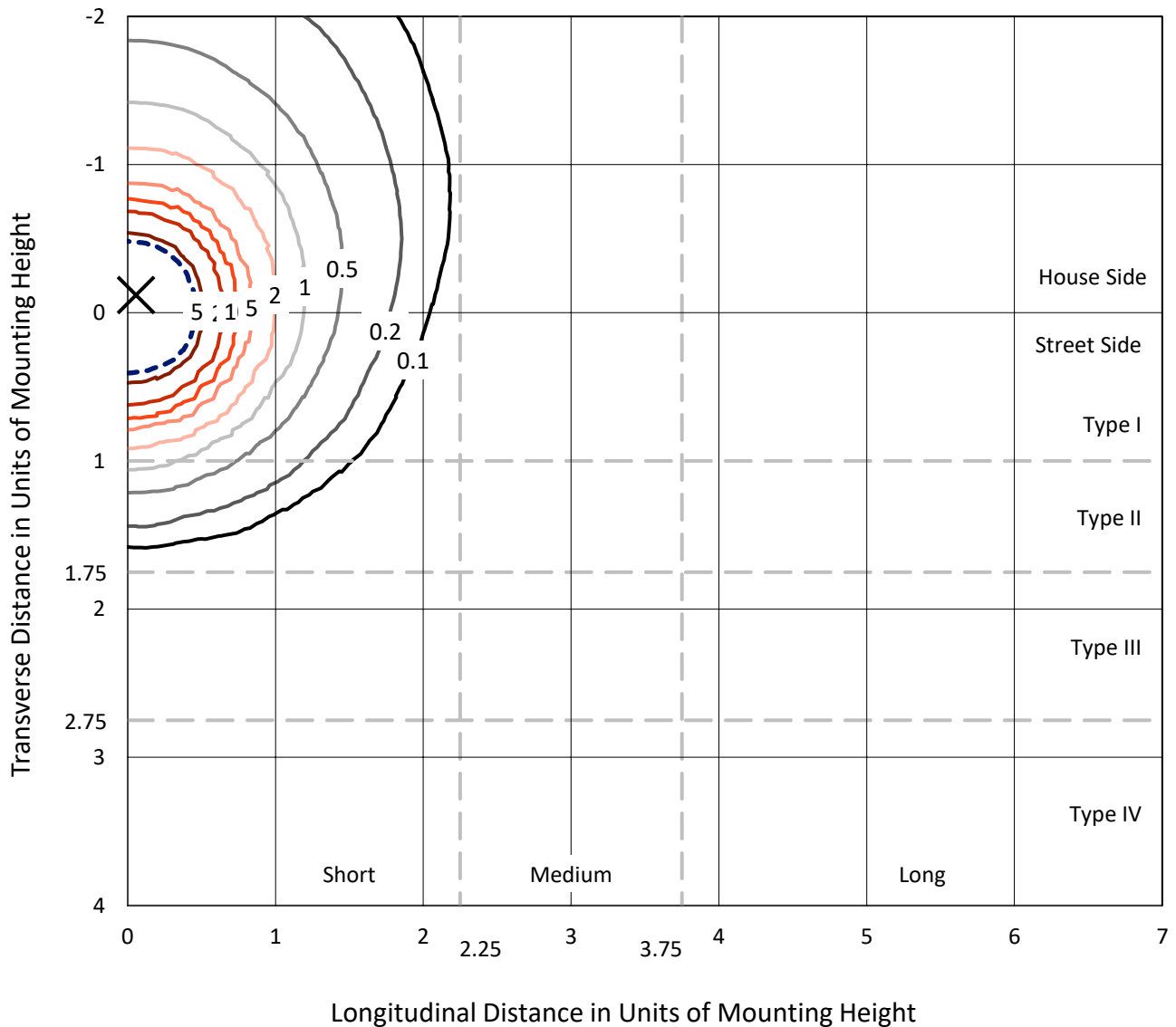
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

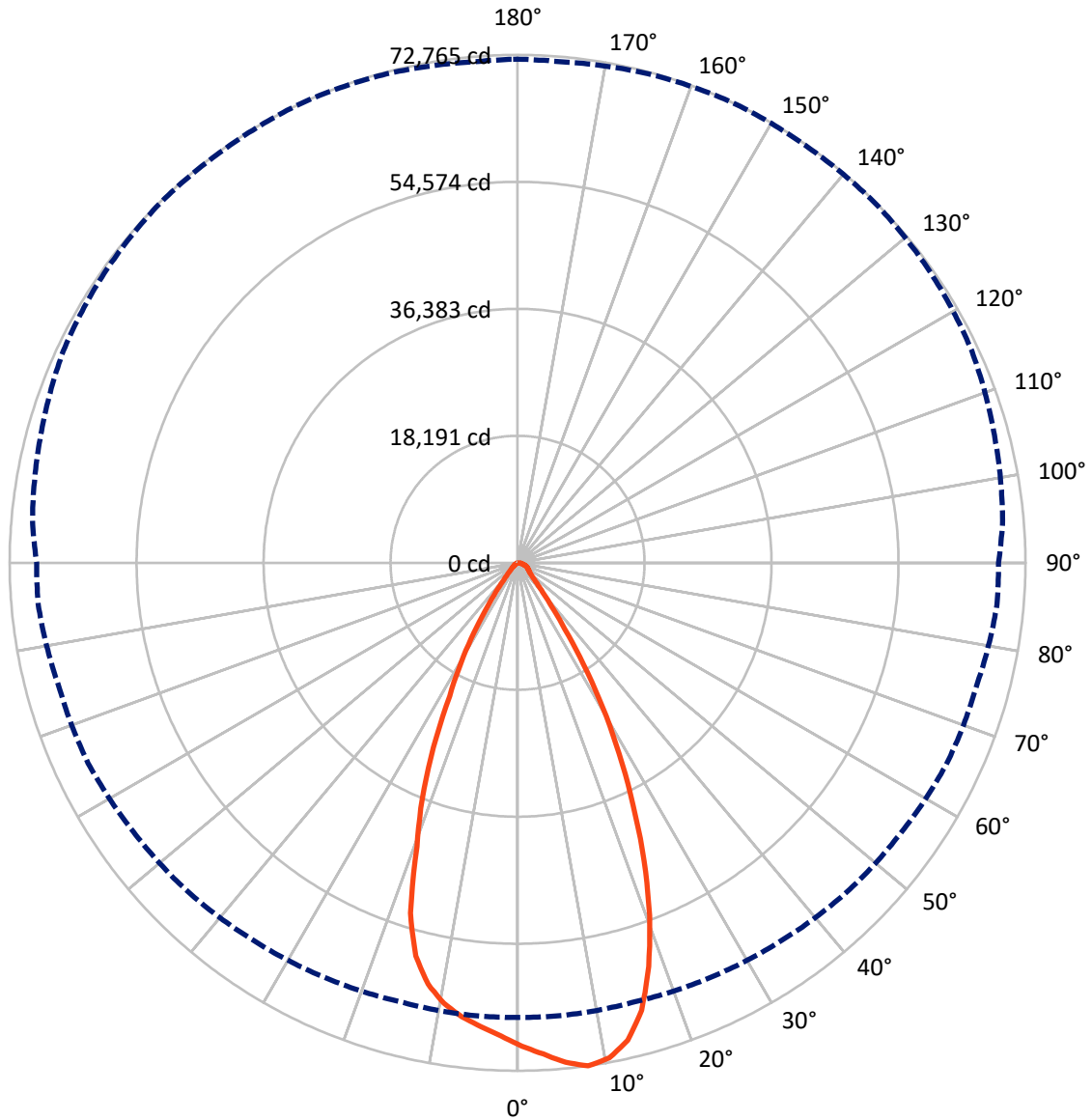
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 176 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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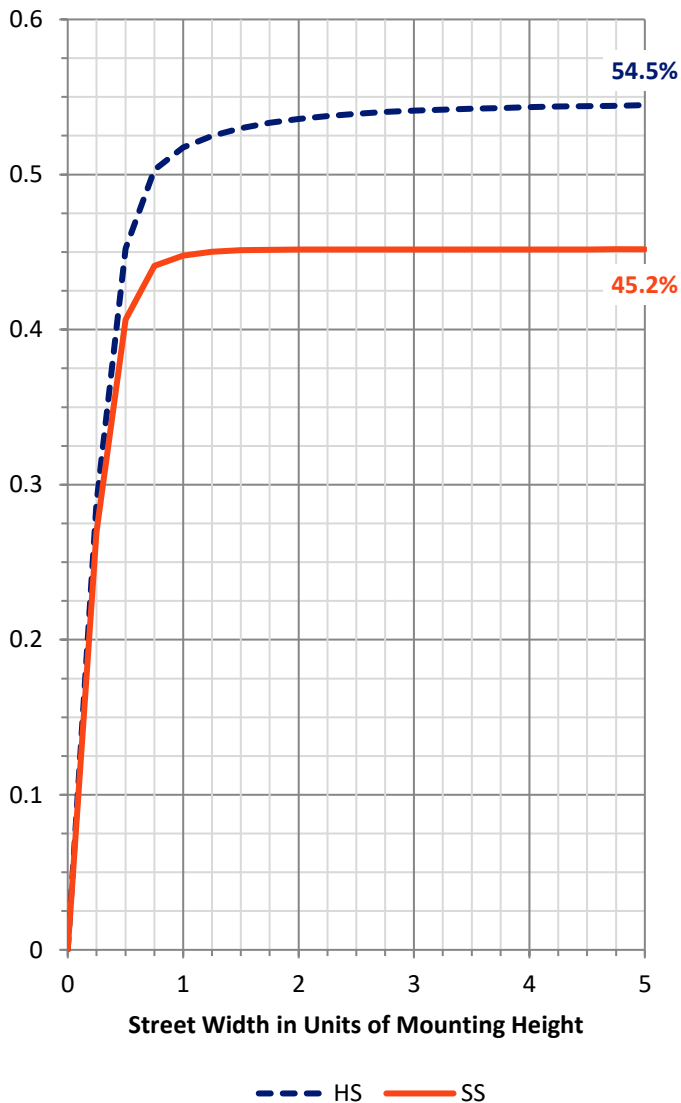
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27438.1	0.0	27438.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	22265.3	0.0	22265.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	49703.4	0.0	49703.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6602.5	13.3
10°-20°	17120.4	34.4
20°-30°	15687.1	31.6
30°-40°	6337.6	12.8
40°-50°	1859.2	3.7
50°-60°	1039.5	2.1
60°-70°	631.4	1.3
70°-80°	320.8	0.6
80°-90°	104.9	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°	49703.4	100.0
0°-180°	49703.4	100.0

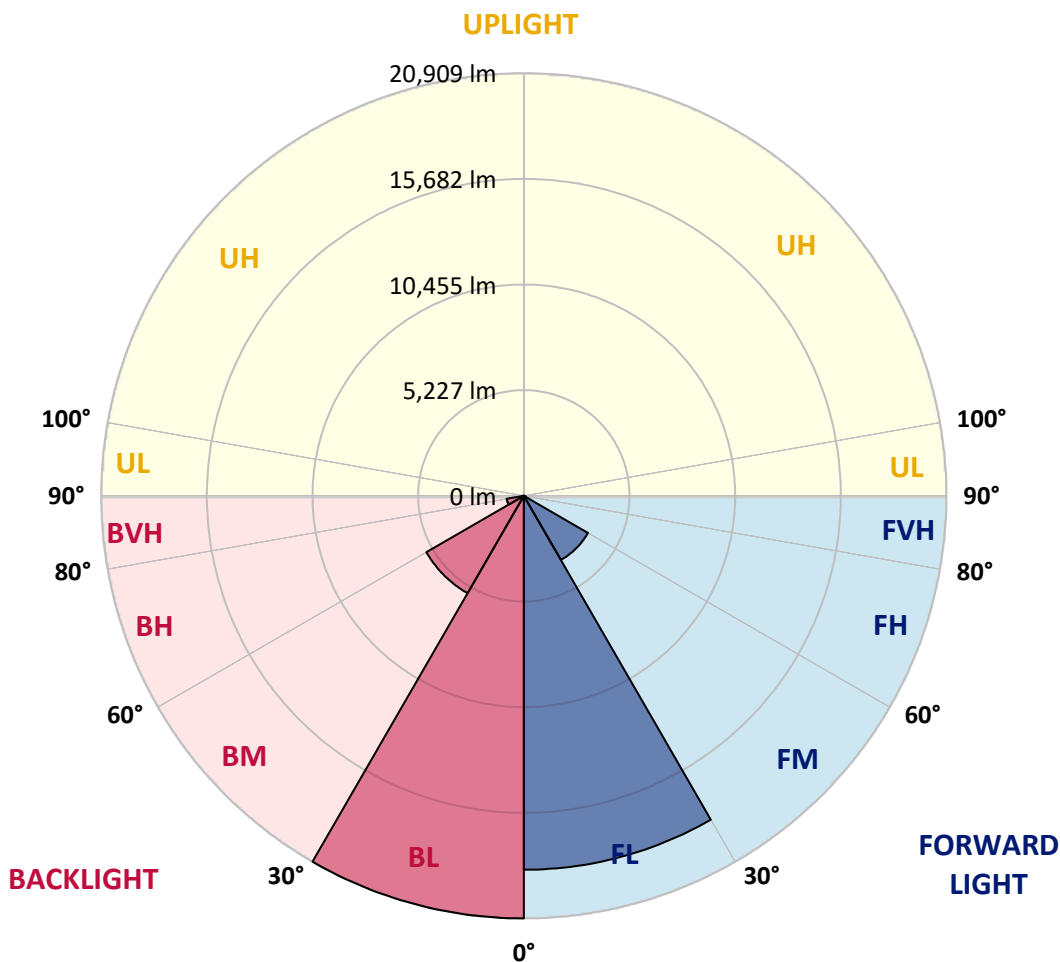


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18500.8	37.2			
FM (30°-60°)	3666.5	7.4			
FH (60°-80°)	88.8	0.2			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	20909.2	42.1	B5		
BM (30°-60°)	5569.7	11.2	B4/8500		
BH (60°-80°)	863.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	95.8	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°	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6
2.5°	67739.0	67968.3	67509.7	67813.5	68048.5	68610.2	68656.0	68850.9	68919.7	69429.8
5°	66455.2	66632.9	66260.3	66667.2	66999.7	67498.3	67882.3	68421.0	68719.1	69320.9
7.5°	65119.8	65159.9	65085.4	65515.2	66013.9	66701.6	67177.3	67882.3	68065.7	68925.4
10°	63503.5	63211.2	63354.5	63985.0	64730.0	65784.6	66111.3	66816.3	67142.9	68019.8
12.5°	60924.4	61073.4	60895.8	61698.1	62317.1	63515.0	63858.9	64569.6	65194.3	65968.0
15°	57290.7	57204.8	57565.8	58190.6	58861.1	59812.5	60368.5	61142.2	61617.9	62420.3
17.5°	49123.5	49415.8	50906.0	52470.6	53846.2	54958.1	55622.9	56264.8	56608.7	57479.9
20°	42423.6	42056.8	42257.4	43140.0	47054.5	48756.7	49455.9	49610.7	49754.0	50441.7
22.5°	34932.7	34812.3	35482.9	36474.4	37402.9	41328.9	42280.3	41919.2	42217.2	42864.9
25°	25940.2	26547.7	27143.7	29046.6	30250.1	32175.9	33981.3	34141.7	34250.6	34657.6
27.5°	21114.3	20902.3	20890.8	21423.8	23200.6	24805.3	26341.4	26696.7	26633.7	27023.4
30°	16598.0	16529.3	16288.5	16414.6	16237.0	17664.1	18386.2	19847.7	19767.5	19778.9
32.5°	11972.8	11714.9	11617.5	11806.6	11623.2	11491.4	12121.8	13772.5	13743.8	13858.4
35°	7244.4	7210.1	7290.3	7456.5	7089.7	7078.2	7210.1	8763.3	8952.4	9135.8
37.5°	4000.5	3966.1	4029.1	4642.4	4522.0	4413.2	4447.5	5267.1	5811.6	5949.2
40°	2636.4	2630.7	2676.5	2785.4	2991.8	2951.7	2968.8	3335.7	3851.5	3971.8
42.5°	1765.3	1771.0	1799.6	1925.7	1954.4	2160.7	2126.3	2212.3	2693.7	2796.9
45°	1409.9	1404.2	1421.4	1364.1	1398.5	1610.5	1633.4	1639.2	2051.8	2114.9
47.5°	1111.9	1111.9	1129.1	1054.6	1037.4	1169.2	1289.6	1306.8	1639.2	1725.1
50°	779.5	779.5	865.4	831.0	871.2	911.3	1043.1	1060.3	1341.1	1432.8
52.5°	573.1	584.6	596.1	601.8	733.6	727.9	842.5	922.7	1014.5	1174.9
55°	435.6	447.0	418.4	447.0	544.5	607.5	630.5	745.1	808.1	985.8
57.5°	286.6	315.2	292.3	343.9	366.8	470.0	504.4	613.3	653.4	808.1
60°	40.1	45.9	74.5	240.7	257.9	309.5	389.7	487.2	527.3	659.1
62.5°	5.7	5.7	17.2	40.1	171.9	206.3	292.3	338.2	389.7	492.9
65°	0.0	0.0	5.7	11.5	34.4	120.4	149.0	183.4	269.4	355.3
67.5°	0.0	0.0	5.7	11.5	17.2	40.1	63.0	120.4	154.7	246.4
70°	0.0	0.0	5.7	11.5	17.2	22.9	34.4	45.9	91.7	143.3
72.5°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	34.4	40.1	91.7
75°	0.0	0.0	5.7	11.5	17.2	28.7	34.4	34.4	34.4	40.1
77.5°	0.0	0.0	5.7	11.5	22.9	34.4	40.1	34.4	28.7	28.7
80°	0.0	0.0	5.7	17.2	28.7	40.1	45.9	34.4	22.9	17.2
82.5°	0.0	0.0	5.7	17.2	28.7	40.1	45.9	40.1	22.9	17.2
85°	0.0	0.0	5.7	17.2	22.9	28.7	45.9	40.1	22.9	11.5
87.5°	0.0	0.0	0.0	5.7	5.7	11.5	22.9	17.2	11.5	5.7
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°
69240.6	0°	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6	69240.6
69418.3	2.5°	69934.1	70192.0	70644.8	70770.9	71160.6	70713.6	70467.1	70490.1	69957.0
69246.4	5°	69934.1	70524.4	71315.4	71693.6	71980.2	71957.3	71894.2	71733.8	71344.0
68902.5	7.5°	69750.7	70713.6	71802.5	72306.9	72650.8	72622.1	72765.4	72507.5	72031.8
68289.2	10°	69160.4	69997.2	71338.3	71751.0	72306.9	72318.4	72140.7	72192.3	71344.0
66048.3	12.5°	67303.4	67956.8	69131.7	69601.7	70278.0	70386.9	70192.0	70117.5	69315.1
62374.4	15°	63709.9	64088.1	65268.8	65738.8	66409.3	66317.6	66512.5	66432.3	65727.3
57411.1	17.5°	58454.2	58574.6	59812.5	60208.0	60838.4	61084.9	60792.6	61165.1	60557.6
50562.1	20°	50917.4	51565.1	52957.8	53565.3	53932.1	54373.5	53989.5	54407.8	53697.2
42251.6	22.5°	43271.8	43655.8	44916.7	45793.6	46475.6	46561.6	46418.3	46710.6	45753.5
34926.9	25°	34921.2	35557.4	36554.6	37700.9	38371.5	38784.1	38411.6	38600.7	38446.0
27086.4	27.5°	27544.9	28112.3	28863.2	29717.1	30725.8	31264.6	30966.6	31287.5	30531.0
20197.3	30°	20214.5	20501.1	21349.3	22254.9	23361.0	24014.4	24043.1	24369.8	23922.7
14150.7	32.5°	14253.9	14506.1	15027.6	15629.4	16684.0	17411.9	17297.3	17343.1	17068.0
9221.8	35°	9267.6	9605.8	9978.3	10264.9	10901.1	11703.4	11640.4	11583.1	11394.0
6063.8	37.5°	6195.6	6327.4	6533.8	6791.7	7204.3	7708.7	7874.9	7668.6	7588.3
4092.2	40°	4189.6	4418.9	4556.4	4751.3	4946.2	5370.3	5484.9	5444.8	5364.6
2865.7	42.5°	2974.6	3152.3	3324.2	3513.3	3616.5	3880.1	4103.7	4040.6	4006.2
2177.9	45°	2258.2	2418.6	2619.2	2762.5	2865.7	3020.4	3232.5	3255.4	3203.8
1748.1	47.5°	1811.1	1954.4	2114.9	2292.5	2412.9	2510.3	2693.7	2762.5	2728.1
1473.0	50°	1536.0	1644.9	1799.6	1977.3	2109.1	2195.1	2355.6	2430.1	2407.2
1232.2	52.5°	1306.8	1438.6	1581.9	1730.9	1891.4	1977.3	2126.3	2235.2	2218.0
1020.2	55°	1083.2	1255.2	1404.2	1553.2	1736.6	1822.6	1954.4	2097.7	2069.0
865.4	57.5°	945.7	1089.0	1243.7	1387.0	1581.9	1696.5	1816.8	1965.9	1960.1
710.7	60°	790.9	934.2	1106.2	1226.5	1432.8	1593.3	1702.2	1857.0	1868.4
538.7	62.5°	630.5	808.1	939.9	1106.2	1295.3	1484.4	1587.6	1742.3	1799.6
412.7	65°	470.0	664.8	813.9	980.1	1157.7	1369.8	1461.5	1616.2	1673.6
298.0	67.5°	349.6	498.6	687.8	831.0	1031.6	1215.0	1323.9	1467.2	1507.3
177.7	70°	263.6	384.0	573.1	699.2	905.6	1054.6	1163.5	1272.4	1323.9
120.4	72.5°	154.7	286.6	452.8	601.8	779.5	905.6	985.8	1071.8	1106.2
57.3	75°	108.9	217.8	355.3	498.6	630.5	733.6	808.1	882.6	917.0
28.7	77.5°	57.3	160.5	280.8	401.2	492.9	578.9	653.4	710.7	733.6
22.9	80°	34.4	114.6	229.3	315.2	378.3	452.8	527.3	567.4	561.7
17.2	82.5°	22.9	91.7	166.2	229.3	275.1	332.4	384.0	412.7	412.7
11.5	85°	17.2	63.0	114.6	177.7	183.4	229.3	240.7	269.4	275.1
11.5	87.5°	11.5	40.1	63.0	103.2	97.4	120.4	126.1	143.3	154.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
69240.6
69527.2
71470.1
72140.7
71097.6
69131.7
65950.8
60408.6
53639.8
45621.7
38348.6
30725.8
24003.0
17222.8
11227.7
7571.1
5376.0
3977.6
3198.1
2710.9
2401.4
2206.6
2069.0
1954.4
1868.4
1793.9
1667.8
1507.3
1312.5
1094.7
905.6
727.9
555.9
406.9
269.4
149.0
0.0

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