

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: P638756

Luminaire Tested: **EPH-VN-03-E-930-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638756
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-930-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14556.3 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 232.1
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



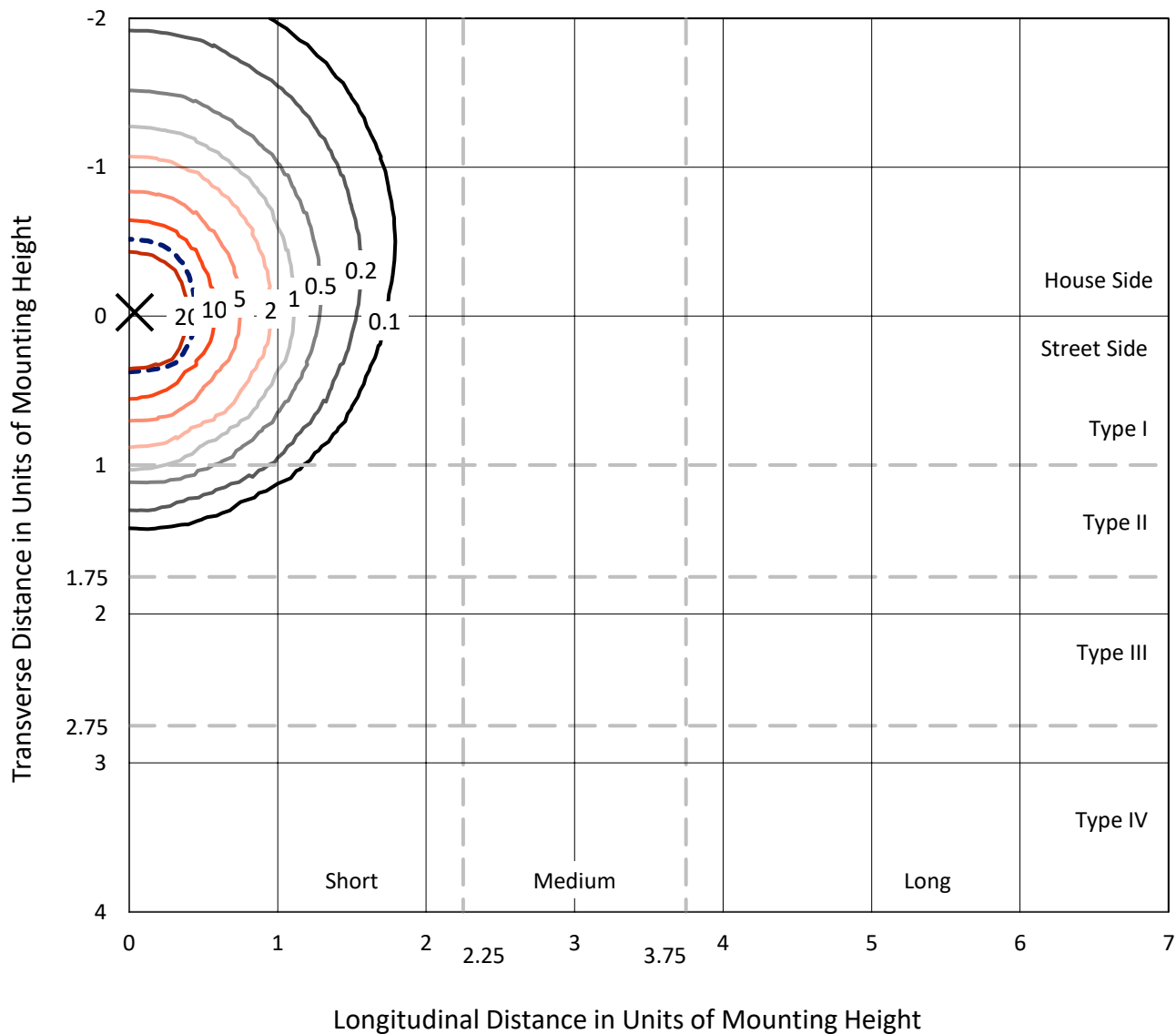
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

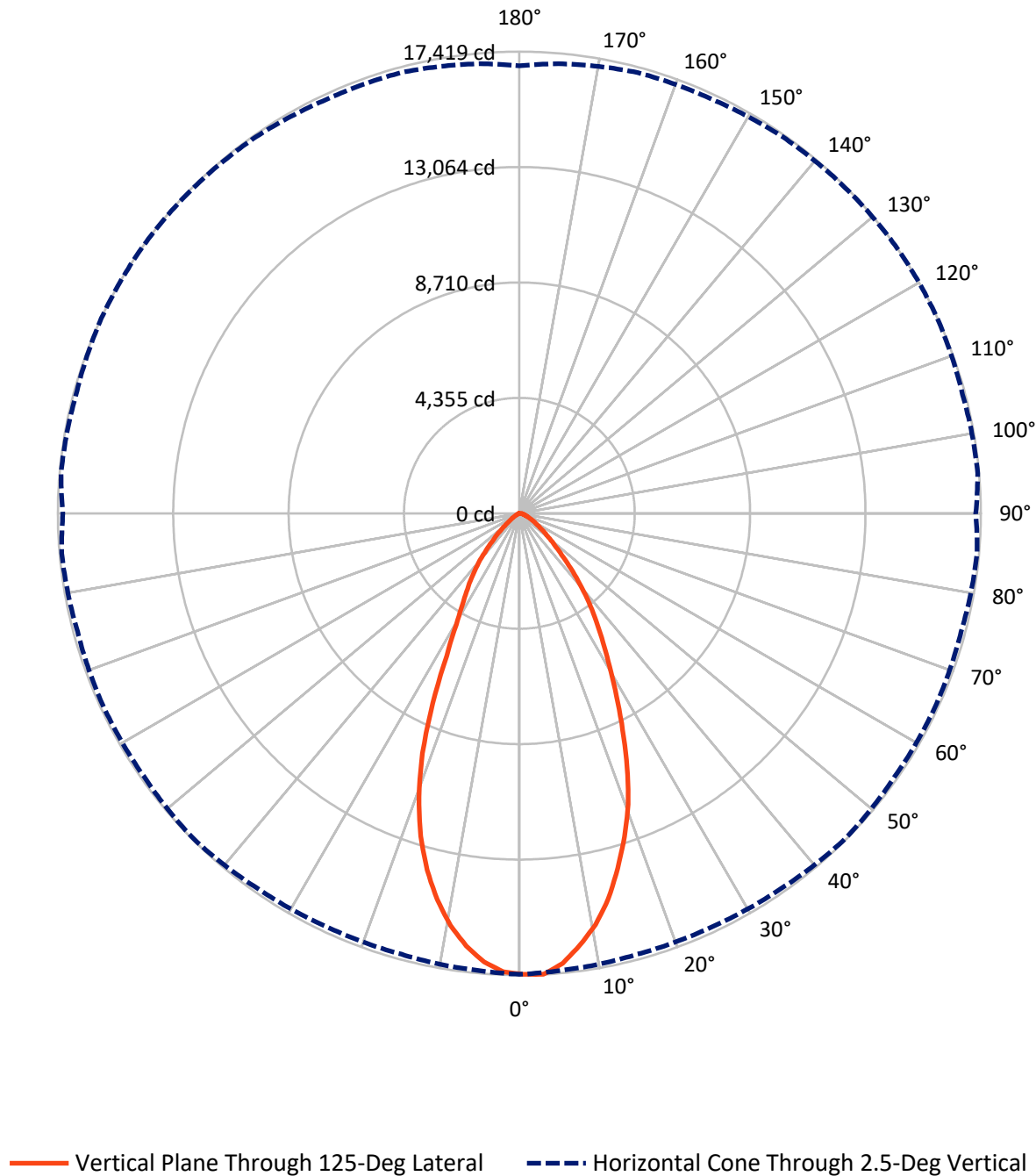


Based on 20 foot mounting height. Maximum calculated value = 43.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8259.8	0.0	8259.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6296.5	0.0	6296.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	14556.3	0.0	14556.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1579.2	10.8
10°-20°	3764.4	25.9
20°-30°	3834.0	26.3
30°-40°	2859.0	19.6
40°-50°	1493.6	10.3
50°-60°	628.2	4.3
60°-70°	256.6	1.8
70°-80°	108.0	0.7
80°-90°	33.3	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°	14556.3	100.0
0°-180°	14556.3	100.0

Coefficient of Utilization



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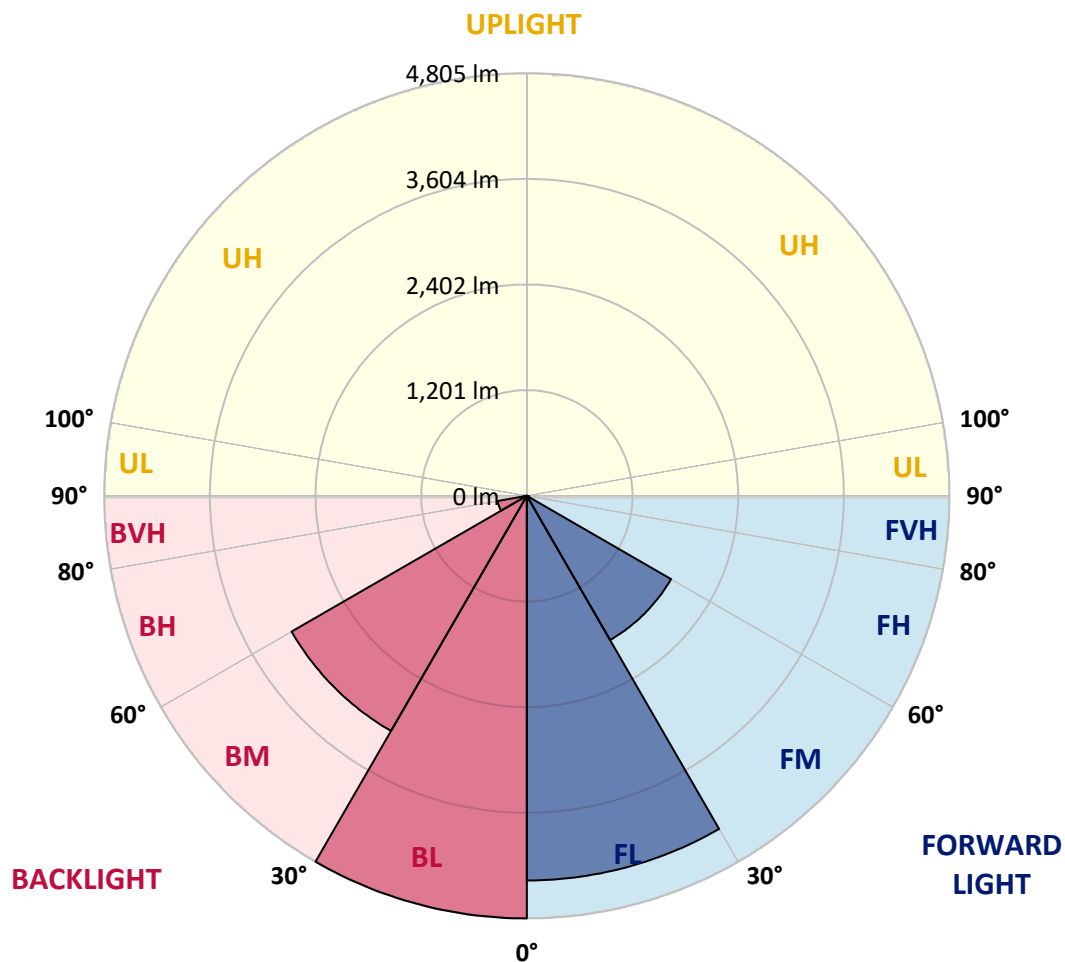
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4372.9	30.0			
FM	(30°-60°)	1893.1	13.0			
FH	(60°-80°)	27.4	0.2			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	4804.8	33.0	B4/5000		
BM	(30°-60°)	3087.8	21.2	B3/5000		
BH	(60°-80°)	337.1	2.3	B1/500		G1/500
BVH	(80°-90°)	30.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3
2.5°	17393.2	17322.1	17221.1	17211.8	17264.1	17378.2	17305.3	17309.0	17264.1	17340.8
5°	17120.2	17052.8	16983.7	16892.0	16968.7	17017.3	16979.9	16938.8	16880.8	16955.6
7.5°	16604.1	16566.7	16463.8	16422.7	16469.5	16523.7	16443.3	16432.1	16351.7	16448.9
10°	15815.0	15800.1	15699.1	15674.8	15715.9	15798.2	15762.7	15755.2	15704.7	15695.3
12.5°	14996.0	14938.1	14812.8	14805.3	14867.0	14990.4	14895.1	14803.4	14831.5	14855.8
15°	12886.9	12825.2	13135.6	13623.6	13879.7	13870.4	13898.4	13788.1	13754.5	13765.7
17.5°	10244.8	10140.1	10252.3	11007.7	12224.9	12931.7	12737.3	12499.8	12372.7	12288.5
20°	8842.4	8848.0	8827.5	9021.9	9781.1	11392.9	11346.1	10888.0	10721.6	10652.4
22.5°	7989.8	7958.0	7913.1	7974.8	8178.6	9124.8	9758.6	9337.9	9280.0	9203.3
25°	7154.0	7154.0	7099.7	7161.4	7219.4	7232.5	7868.2	8040.3	7928.1	7928.1
27.5°	6430.3	6392.9	6368.6	6396.7	6320.0	5951.7	6032.1	6912.8	6836.1	6789.4
30°	5712.3	5701.1	5660.0	5697.4	5413.2	4998.1	4829.8	5833.9	5914.3	5897.4
32.5°	4715.7	4760.6	4943.8	5001.8	4515.6	4180.9	4020.1	4842.9	5164.5	5151.4
35°	3204.9	3242.3	3451.7	4143.5	3743.4	3504.1	3457.3	3851.8	4381.0	4431.5
37.5°	2552.3	2546.7	2606.5	2730.0	3008.6	2950.6	2937.5	3040.3	3573.2	3595.7
40°	2103.6	2096.1	2094.2	1993.2	1924.1	2453.2	2417.7	2356.0	2817.8	2862.7
42.5°	1695.9	1703.4	1709.0	1488.4	1387.4	1892.3	1871.7	1808.1	2210.1	2262.5
45°	1331.3	1329.4	1340.7	1108.8	1080.8	1209.8	1398.6	1348.1	1667.9	1724.0
47.5°	690.0	714.3	865.7	858.3	871.3	858.3	1058.3	1045.2	1254.7	1344.4
50°	463.7	471.2	484.3	486.2	686.2	632.0	718.0	813.4	878.8	1017.2
52.5°	359.0	364.6	331.0	310.4	420.7	467.5	471.2	562.8	613.3	753.5
55°	200.1	224.4	241.2	243.1	231.9	345.9	344.0	417.0	456.2	549.7
57.5°	26.2	31.8	48.6	157.1	155.2	192.6	241.2	302.9	325.4	402.0
60°	1.9	3.7	5.6	24.3	102.8	112.2	164.5	188.9	226.2	282.3
62.5°	0.0	0.0	1.9	5.6	20.6	65.4	86.0	99.1	132.8	185.1
65°	0.0	0.0	1.9	3.7	7.5	24.3	33.7	54.2	78.5	114.1
67.5°	0.0	0.0	1.9	3.7	5.6	9.3	15.0	24.3	41.1	69.2
70°	0.0	0.0	1.9	3.7	5.6	7.5	11.2	15.0	22.4	37.4
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	9.3	11.2	15.0	20.6
75°	0.0	0.0	1.9	3.7	5.6	9.3	9.3	9.3	11.2	13.1
77.5°	0.0	0.0	1.9	3.7	5.6	9.3	7.5	9.3	9.3	9.3
80°	0.0	0.0	1.9	3.7	5.6	9.3	11.2	9.3	7.5	7.5
82.5°	0.0	0.0	1.9	5.6	5.6	13.1	13.1	13.1	5.6	5.6
85°	0.0	0.0	3.7	5.6	9.3	15.0	15.0	11.2	5.6	3.7
87.5°	0.0	0.0	1.9	3.7	3.7	7.5	11.2	9.3	3.7	1.9
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°
17391.3	0°	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3	17391.3
17228.6	2.5°	17367.0	17320.2	17408.1	17419.3	17381.9	17335.2	17226.7	17217.4	17028.5
16847.2	5°	17037.9	16961.2	17017.3	17054.7	17041.6	16991.1	16946.3	16905.1	16735.0
16228.2	7.5°	16424.6	16396.5	16422.7	16450.8	16505.0	16450.8	16432.1	16389.1	16220.8
15618.7	10°	15744.0	15691.6	15790.7	15777.6	15762.7	15747.7	15669.2	15676.7	15478.4
14788.5	12.5°	14908.2	14820.3	14915.6	14926.8	14915.6	14863.3	14775.4	14812.8	14631.4
13666.6	15°	13784.4	13775.0	13844.2	13889.1	13920.9	13864.8	13834.9	13853.6	13745.1
12223.1	17.5°	12404.4	12526.0	12752.2	12828.9	12830.8	12888.7	12871.9	12849.5	12769.1
10624.4	20°	10781.4	11015.2	11363.0	11720.1	11822.9	11774.3	11751.9	11793.0	11673.3
9122.9	22.5°	9283.7	9483.8	9887.7	10409.3	10710.4	10740.3	10734.7	10699.2	10652.4
7920.6	25°	8012.2	8189.9	8576.9	9053.7	9631.5	9717.5	9721.2	9710.0	9668.9
6830.5	27.5°	6938.9	7154.0	7367.1	7793.4	8408.6	8763.9	8719.0	8705.9	8691.0
5910.5	30°	5966.6	6237.8	6437.8	6703.3	7254.9	7735.5	7782.2	7759.8	7724.3
5149.5	32.5°	5196.3	5357.1	5611.4	5790.9	6187.3	6731.4	6910.9	6894.1	6862.3
4463.3	35°	4526.9	4590.4	4790.5	4990.6	5254.2	5781.5	6047.0	6009.6	6004.0
3636.8	37.5°	3728.4	3941.6	4051.9	4253.9	4439.0	4848.5	5215.0	5198.1	5200.0
2924.4	40°	3010.4	3133.8	3352.6	3522.8	3692.9	3992.1	4399.7	4410.9	4407.2
2264.4	42.5°	2311.1	2430.8	2660.8	2845.9	2997.3	3182.4	3571.4	3584.5	3601.3
1763.2	45°	1804.4	1881.0	2049.3	2241.9	2402.7	2514.9	2810.4	2894.5	2896.4
1366.8	47.5°	1400.5	1488.4	1608.1	1793.2	1950.2	2030.6	2245.7	2359.7	2354.1
1049.0	50°	1099.5	1179.9	1277.1	1422.9	1593.1	1656.7	1815.6	1927.8	1922.2
790.9	52.5°	841.4	944.3	1030.3	1142.5	1308.9	1363.1	1477.2	1606.2	1587.5
579.6	55°	637.6	742.3	822.7	916.2	1067.7	1136.9	1215.4	1318.2	1322.0
448.8	57.5°	480.5	589.0	661.9	757.3	871.3	948.0	1007.8	1118.2	1116.3
306.7	60°	344.0	437.5	525.4	624.5	712.4	800.3	841.4	946.1	949.9
216.9	62.5°	248.7	336.6	420.7	506.7	585.3	671.3	708.7	790.9	802.2
142.1	65°	173.9	235.6	332.8	398.3	486.2	549.7	598.3	669.4	682.5
84.1	67.5°	112.2	170.2	263.6	321.6	402.0	456.2	506.7	562.8	579.6
54.2	70°	67.3	129.0	196.3	258.0	331.0	379.6	428.2	476.8	486.2
26.2	72.5°	43.0	89.8	142.1	209.4	265.5	317.9	360.9	396.4	368.4
16.8	75°	24.3	61.7	112.2	164.5	215.0	265.5	301.0	319.7	256.2
11.2	77.5°	15.0	44.9	91.6	132.8	166.4	213.2	235.6	246.8	183.2
7.5	80°	9.3	33.7	76.7	108.5	108.5	157.1	183.2	192.6	132.8
5.6	82.5°	7.5	24.3	59.8	82.3	72.9	117.8	144.0	145.8	93.5
3.7	85°	5.6	18.7	37.4	54.2	50.5	82.3	84.1	93.5	61.7
3.7	87.5°	3.7	11.2	22.4	31.8	28.0	39.3	44.9	50.5	33.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17391.3
16880.8
16598.5
16185.2
15411.1
14579.1
13614.2
12649.4
11587.3
10562.7
9530.5
8603.1
7679.4
6778.1
5942.3
5140.2
4341.7
3545.2
2847.8
2333.5
1922.2
1589.4
1322.0
1112.5
940.5
798.4
678.7
577.8
478.7
342.2
243.1
172.0
123.4
86.0
56.1
29.9
0.0

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