

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: P638768

Luminaire Tested: **EPH-VN-03-E-940-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638768
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-940-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16435 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - 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



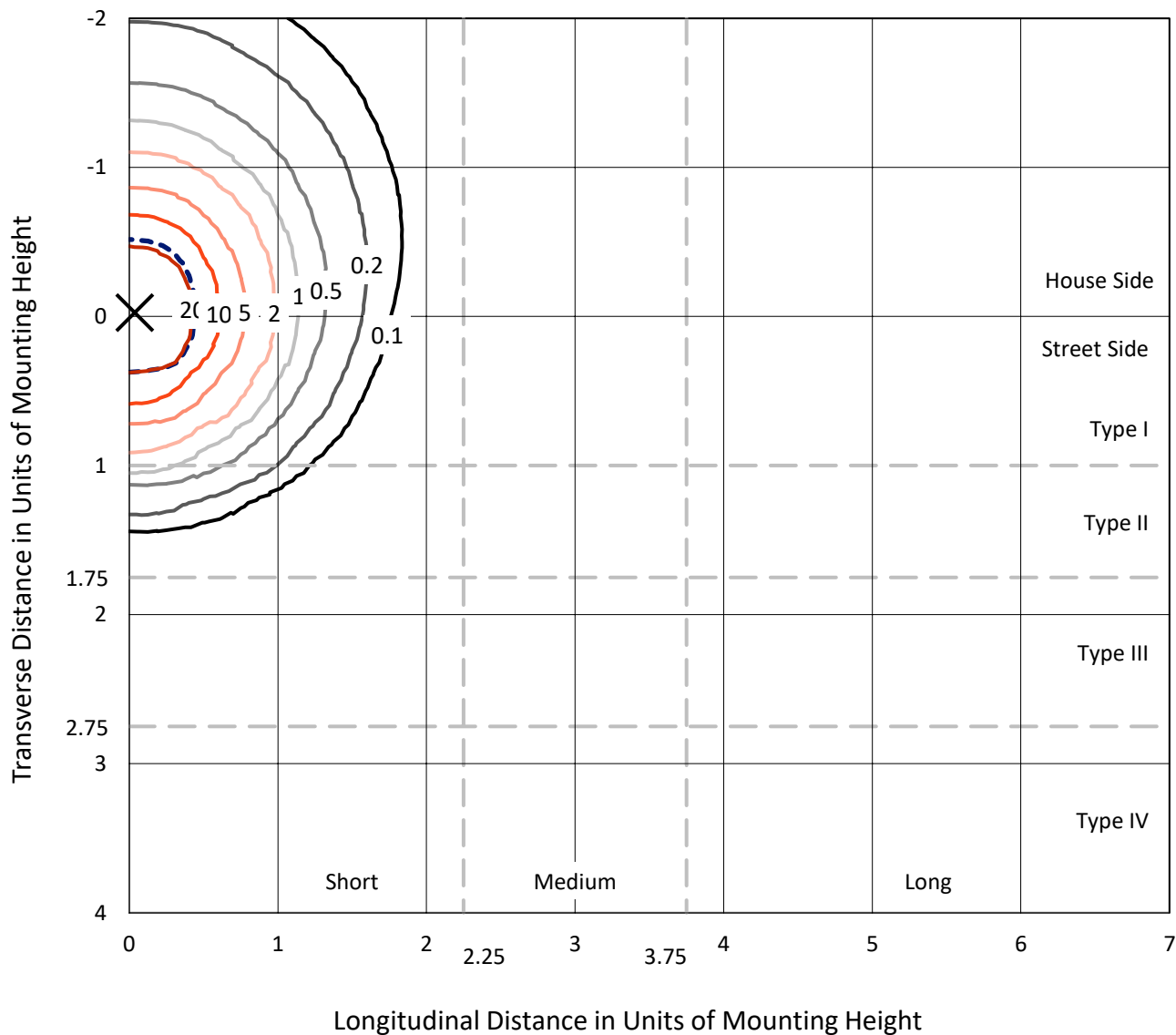
REPORT NUMBER: P638768

CATALOG NUMBER: EPH-VN-03-E-940-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

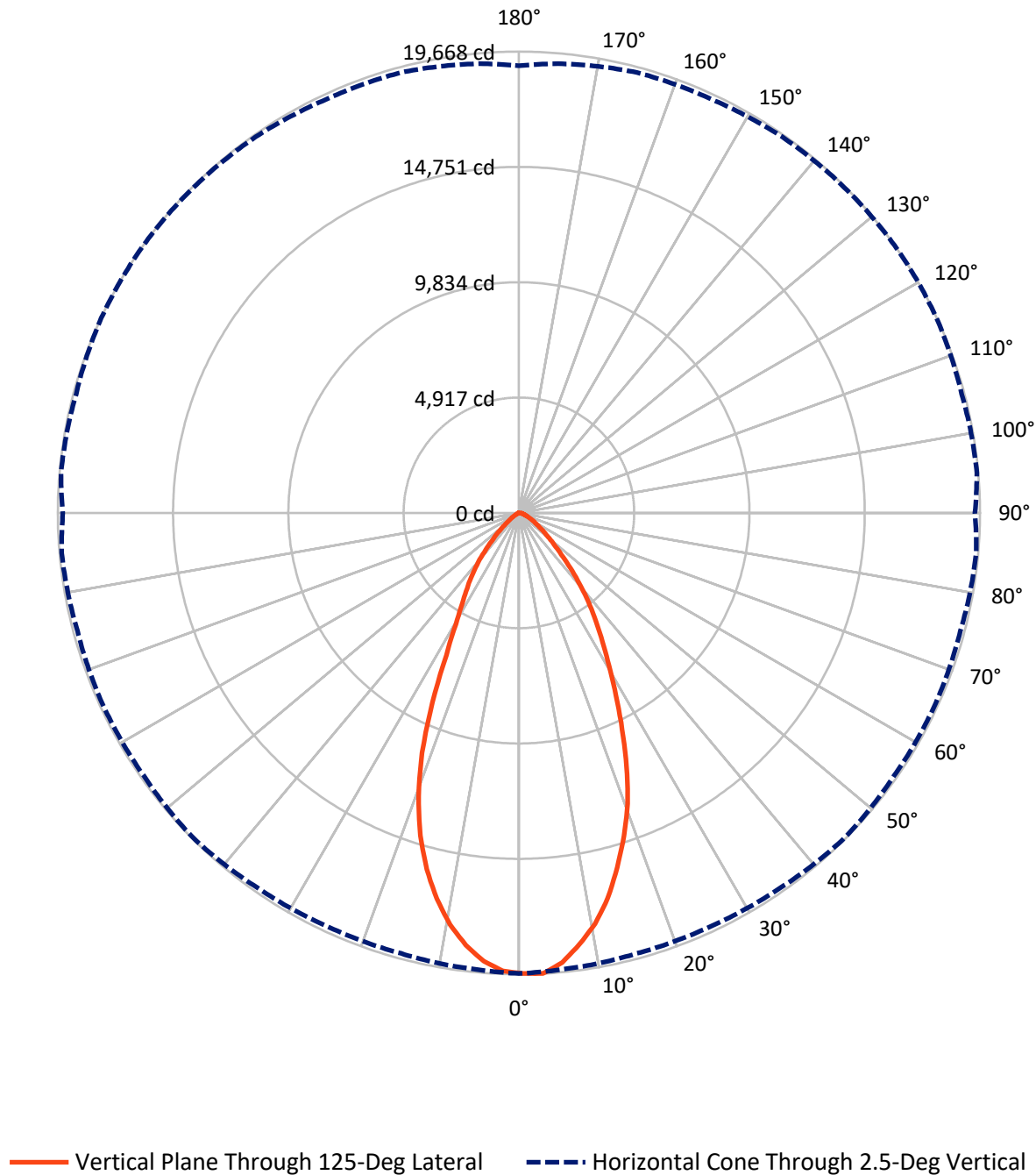


Based on 20 foot mounting height. Maximum calculated value = 49.1 fc

Type I - Short - N/A

REPORT NUMBER: P638768
CATALOG NUMBER: EPH-VN-03-E-940-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638768

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9325.9	0.0	9325.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7109.1	0.0	7109.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	16435.0	0.0	16435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1783.0	10.8
10°-20°	4250.3	25.9
20°-30°	4328.8	26.3
30°-40°	3228.0	19.6
40°-50°	1686.4	10.3
50°-60°	709.3	4.3
60°-70°	289.7	1.8
70°-80°	121.9	0.7
80°-90°	37.6	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°	16435.0	100.0
0°-180°	16435.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638768

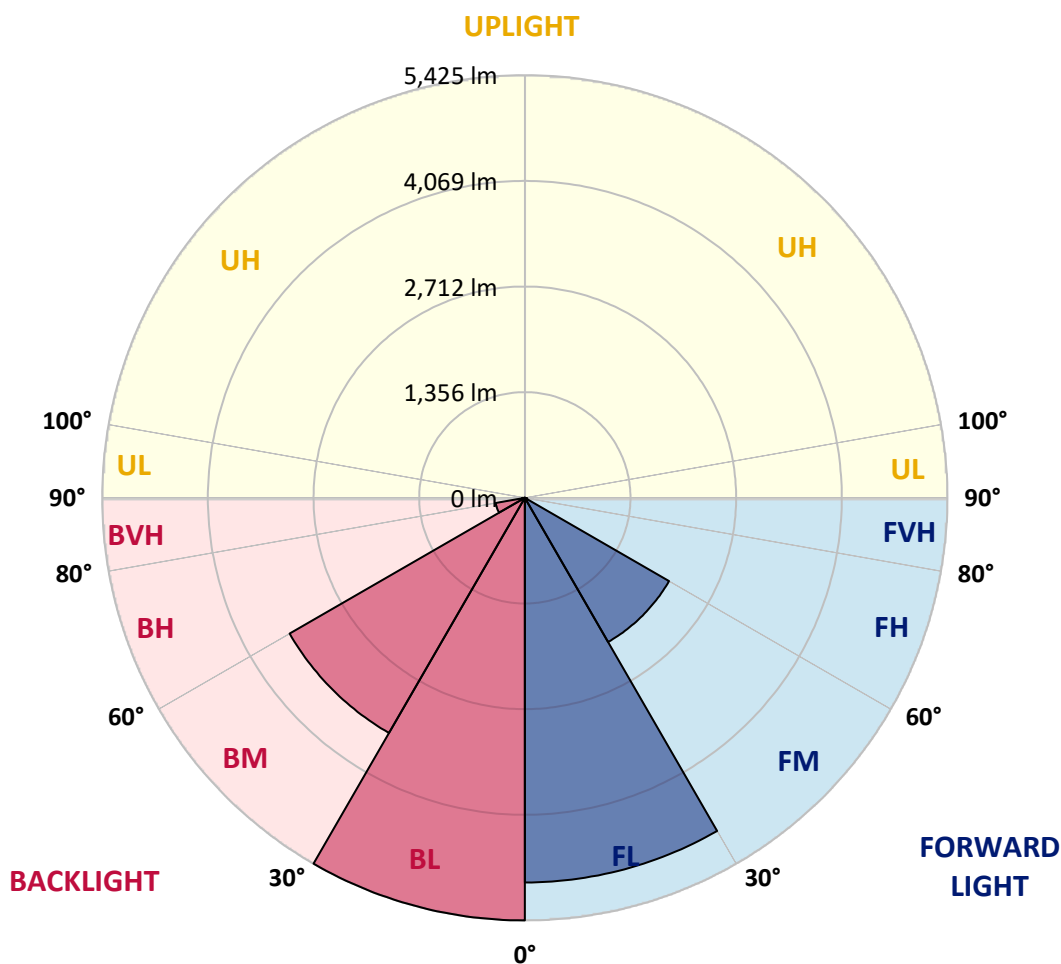
CATALOG NUMBER: EPH-VN-03-E-940-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4937.3	30.0			
FM	(30°-60°)	2137.4	13.0			
FH	(60°-80°)	30.9	0.2			G0/660
FVH	(80°-90°)	3.5	0.0			G0/10
BL	(0°-30°)	5424.9	33.0	B5		
BM	(30°-60°)	3486.3	21.2	B3/5000		
BH	(60°-80°)	380.7	2.3	B1/500		G1/500
BVH	(80°-90°)	34.1	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-G1

Type I Short



REPORT NUMBER: P638768

CATALOG NUMBER: EPH-VN-03-E-940-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8
2.5°	19638.0	19557.7	19443.7	19433.2	19492.3	19621.1	19538.7	19543.0	19492.3	19578.8
5°	19329.7	19253.7	19175.6	19072.2	19158.7	19213.6	19171.4	19124.9	19059.5	19143.9
7.5°	18747.1	18704.8	18588.7	18542.3	18595.0	18656.3	18565.5	18552.8	18462.0	18571.8
10°	17856.1	17839.3	17725.3	17697.8	17744.3	17837.1	17797.0	17788.6	17731.6	17721.0
12.5°	16931.5	16866.0	16724.6	16716.1	16785.8	16925.1	16817.5	16714.0	16745.7	16773.1
15°	14550.1	14480.4	14830.9	15381.9	15671.1	15660.5	15692.2	15567.7	15529.7	15542.3
17.5°	11567.0	11448.8	11575.5	12428.4	13802.7	14600.7	14381.2	14113.1	13969.5	13874.5
20°	9983.6	9990.0	9966.8	10186.3	11043.4	12863.3	12810.5	12293.3	12105.4	12027.2
22.5°	9021.0	8985.1	8934.4	9004.1	9234.2	10302.4	11018.1	10543.1	10477.7	10391.1
25°	8077.3	8077.3	8016.1	8085.7	8151.2	8165.9	8883.7	9078.0	8951.3	8951.3
27.5°	7260.3	7218.0	7190.6	7222.3	7135.7	6719.8	6810.6	7804.9	7718.4	7665.6
30°	6449.6	6436.9	6390.5	6432.7	6111.8	5643.1	5453.1	6586.8	6677.6	6658.6
32.5°	5324.3	5375.0	5581.9	5647.3	5098.4	4720.5	4539.0	5467.9	5831.0	5816.2
35°	3618.5	3660.7	3897.2	4678.3	4226.5	3956.3	3903.5	4349.0	4946.4	5003.4
37.5°	2881.7	2875.4	2942.9	3082.3	3396.8	3331.4	3316.6	3432.7	4034.4	4059.7
40°	2375.0	2366.6	2364.5	2250.5	2172.4	2769.8	2729.7	2660.1	3181.5	3232.2
42.5°	1914.8	1923.3	1929.6	1680.5	1566.5	2136.5	2113.3	2041.5	2495.4	2554.5
45°	1503.1	1501.0	1513.7	1251.9	1220.2	1365.9	1579.1	1522.1	1883.1	1946.5
47.5°	779.0	806.5	977.5	969.0	983.8	969.0	1194.9	1180.1	1416.6	1517.9
50°	523.6	532.0	546.8	548.9	774.8	713.6	810.7	918.4	992.2	1148.5
52.5°	405.3	411.7	373.7	350.5	475.0	527.8	532.0	635.5	692.5	850.8
55°	225.9	253.3	272.3	274.5	261.8	390.6	388.5	470.8	515.1	620.7
57.5°	29.6	35.9	54.9	177.3	175.2	217.4	272.3	342.0	367.3	453.9
60°	2.1	4.2	6.3	27.4	116.1	126.7	185.8	213.2	255.4	318.8
62.5°	0.0	0.0	2.1	6.3	23.2	73.9	97.1	111.9	149.9	209.0
65°	0.0	0.0	2.1	4.2	8.4	27.4	38.0	61.2	88.7	128.8
67.5°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	27.4	46.4	78.1
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.7	16.9	25.3	42.2
72.5°	0.0	0.0	2.1	2.1	4.2	10.6	10.6	12.7	16.9	23.2
75°	0.0	0.0	2.1	4.2	6.3	10.6	10.6	10.6	12.7	14.8
77.5°	0.0	0.0	2.1	4.2	6.3	10.6	8.4	10.6	10.6	10.6
80°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	10.6	8.4	8.4
82.5°	0.0	0.0	2.1	6.3	6.3	14.8	14.8	14.8	6.3	6.3
85°	0.0	0.0	4.2	6.3	10.6	16.9	16.9	12.7	6.3	4.2
87.5°	0.0	0.0	2.1	4.2	4.2	8.4	12.7	10.6	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638768

CATALOG NUMBER: EPH-VN-03-E-940-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
19635.8	0°	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8	19635.8
19452.2	2.5°	19608.4	19555.6	19654.8	19667.5	19625.3	19572.5	19450.1	19439.5	19226.3
19021.5	5°	19236.8	19150.3	19213.6	19255.8	19241.1	19184.1	19133.4	19086.9	18894.8
18322.7	7.5°	18544.4	18512.7	18542.3	18573.9	18635.2	18573.9	18552.8	18504.3	18314.3
17634.5	10°	17775.9	17716.8	17828.7	17813.9	17797.0	17780.1	17691.5	17699.9	17476.1
16697.1	12.5°	16832.2	16733.0	16840.7	16853.3	16840.7	16781.6	16682.3	16724.6	16519.8
15430.4	15°	15563.4	15552.9	15631.0	15681.7	15717.5	15654.2	15620.4	15641.5	15519.1
13800.6	17.5°	14005.4	14142.6	14398.1	14484.6	14486.7	14552.2	14533.2	14507.9	14417.1
11995.6	20°	12172.9	12436.8	12829.5	13232.7	13348.8	13293.9	13268.6	13315.1	13179.9
10300.3	22.5°	10481.9	10707.8	11163.8	11752.8	12092.7	12126.5	12120.1	12080.0	12027.2
8942.8	25°	9046.3	9246.9	9683.9	10222.2	10874.6	10971.7	10975.9	10963.2	10916.8
7712.0	27.5°	7834.5	8077.3	8317.9	8799.3	9493.9	9895.0	9844.3	9829.5	9812.6
6673.4	30°	6736.7	7042.8	7268.7	7568.5	8191.3	8733.8	8786.6	8761.3	8721.2
5814.1	32.5°	5866.9	6048.5	6335.6	6538.2	6985.8	7600.2	7802.8	7783.8	7747.9
5039.3	35°	5111.1	5182.9	5408.8	5634.7	5932.3	6527.7	6827.5	6785.2	6778.9
4106.2	37.5°	4209.6	4450.3	4574.9	4802.9	5011.9	5474.2	5888.0	5869.0	5871.1
3301.8	40°	3399.0	3538.3	3785.3	3977.4	4169.5	4507.3	4967.5	4980.2	4976.0
2556.6	42.5°	2609.4	2744.5	3004.2	3213.2	3384.2	3593.2	4032.3	4047.1	4066.1
1990.8	45°	2037.3	2123.8	2313.8	2531.3	2712.8	2839.5	3173.1	3268.1	3270.2
1543.3	47.5°	1581.3	1680.5	1815.6	2024.6	2201.9	2292.7	2535.5	2664.3	2657.9
1184.4	50°	1241.4	1332.1	1441.9	1606.6	1798.7	1870.5	2049.9	2176.6	2170.3
893.0	52.5°	950.0	1066.1	1163.2	1289.9	1477.8	1539.0	1667.8	1813.5	1792.4
654.5	55°	719.9	838.1	928.9	1034.5	1205.5	1283.6	1372.3	1488.4	1492.6
506.7	57.5°	542.6	665.0	747.3	855.0	983.8	1070.4	1137.9	1262.5	1260.4
346.2	60°	388.5	494.0	593.2	705.1	804.3	903.6	950.0	1068.2	1072.5
244.9	62.5°	280.8	380.0	475.0	572.1	660.8	757.9	800.1	893.0	905.7
160.4	65°	196.3	266.0	375.8	449.7	548.9	620.7	675.6	755.8	770.6
95.0	67.5°	126.7	192.1	297.7	363.1	453.9	515.1	572.1	635.5	654.5
61.2	70°	76.0	145.7	221.7	291.3	373.7	428.6	483.5	538.3	548.9
29.6	72.5°	48.6	101.3	160.4	236.4	299.8	358.9	407.5	447.6	415.9
19.0	75°	27.4	69.7	126.7	185.8	242.8	299.8	339.9	361.0	289.2
12.7	77.5°	16.9	50.7	103.4	149.9	187.9	240.7	266.0	278.7	206.9
8.4	80°	10.6	38.0	86.6	122.4	122.4	177.3	206.9	217.4	149.9
6.3	82.5°	8.4	27.4	67.6	92.9	82.3	133.0	162.6	164.7	105.6
4.2	85°	6.3	21.1	42.2	61.2	57.0	92.9	95.0	105.6	69.7
4.2	87.5°	4.2	12.7	25.3	35.9	31.7	44.3	50.7	57.0	38.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19635.8
19059.5
18740.7
18274.2
17400.1
16460.7
15371.3
14282.0
13082.8
11925.9
10760.6
9713.4
8670.5
7652.9
6709.2
5803.6
4902.1
4002.7
3215.3
2634.7
2170.3
1794.5
1492.6
1256.1
1061.9
901.5
766.3
652.3
540.5
386.3
274.5
194.2
139.3
97.1
63.3
33.8
0.0

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