

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: P638769

Luminaire Tested: **EPH-VN-04-E-940-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-940-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21310.2 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 303.8
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



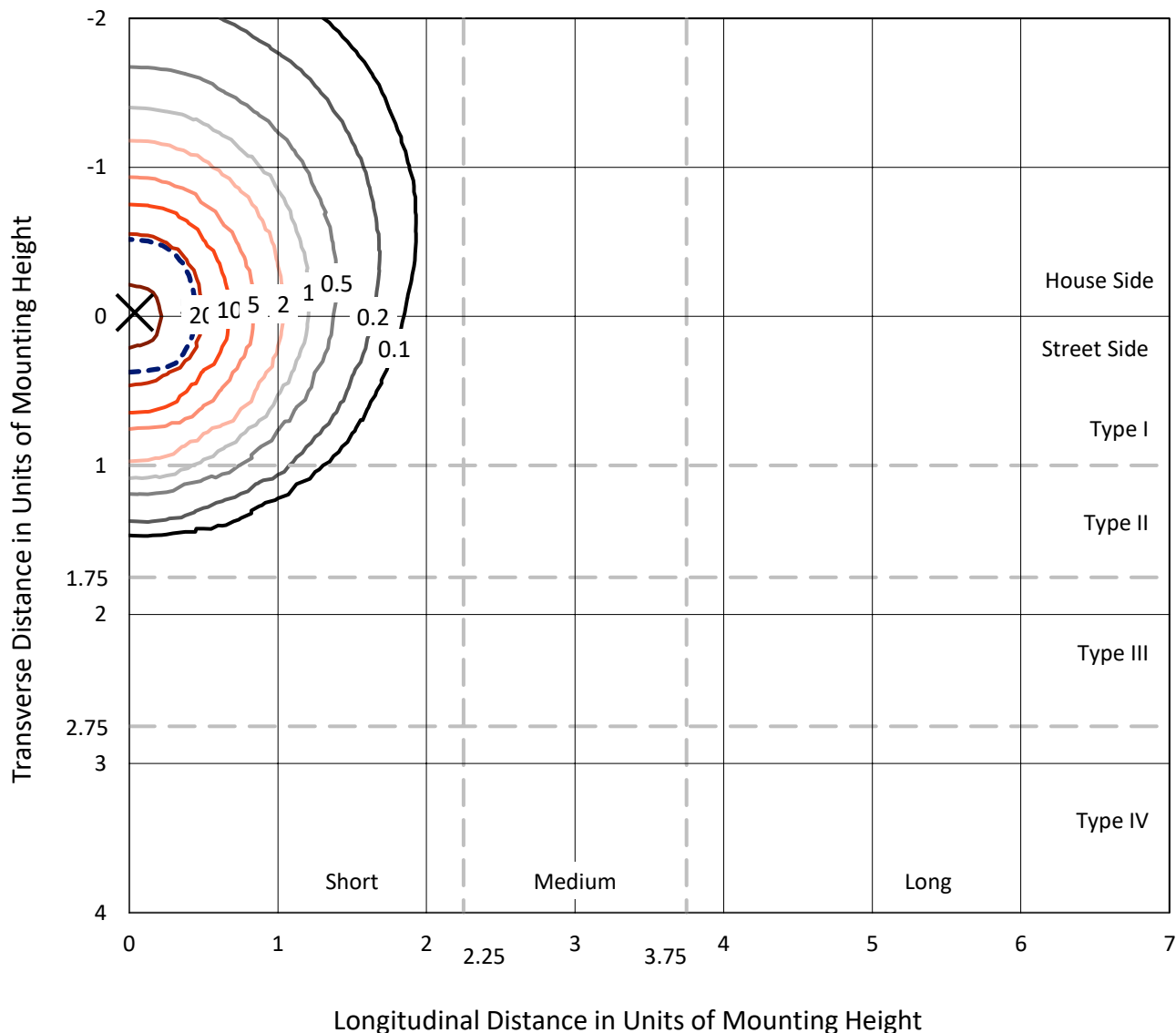
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

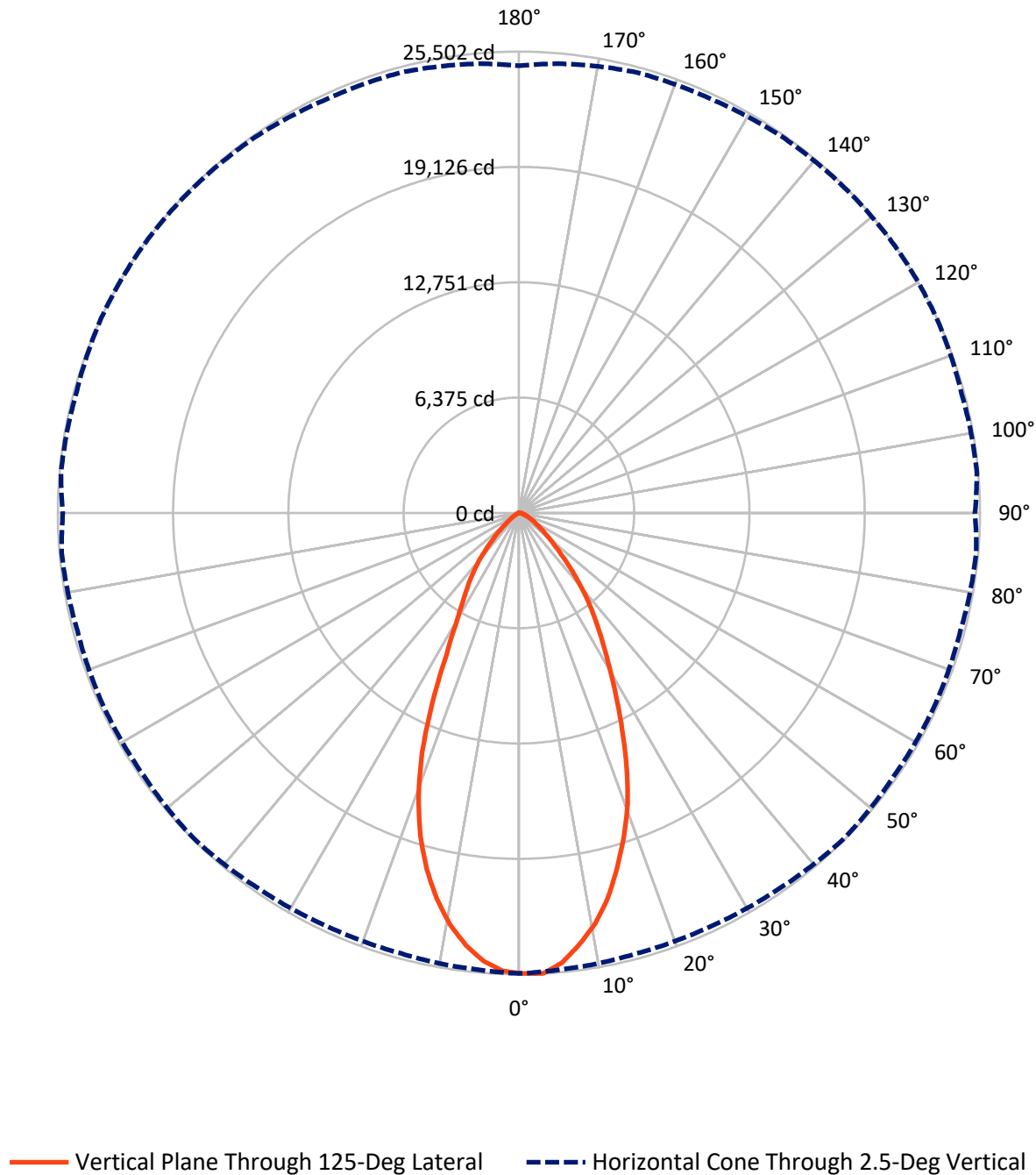


Based on 20 foot mounting height. Maximum calculated value = 63.7 fc

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	12092.3	0.0	12092.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9218.0	0.0	9218.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	21310.2	0.0	21310.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2311.9	10.8
10°-20°	5511.1	25.9
20°-30°	5612.9	26.3
30°-40°	4185.6	19.6
40°-50°	2186.6	10.3
50°-60°	919.7	4.3
60°-70°	375.6	1.8
70°-80°	158.1	0.7
80°-90°	48.7	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°	21310.2	100.0
0°-180°	21310.2	100.0

Coefficient of Utilization



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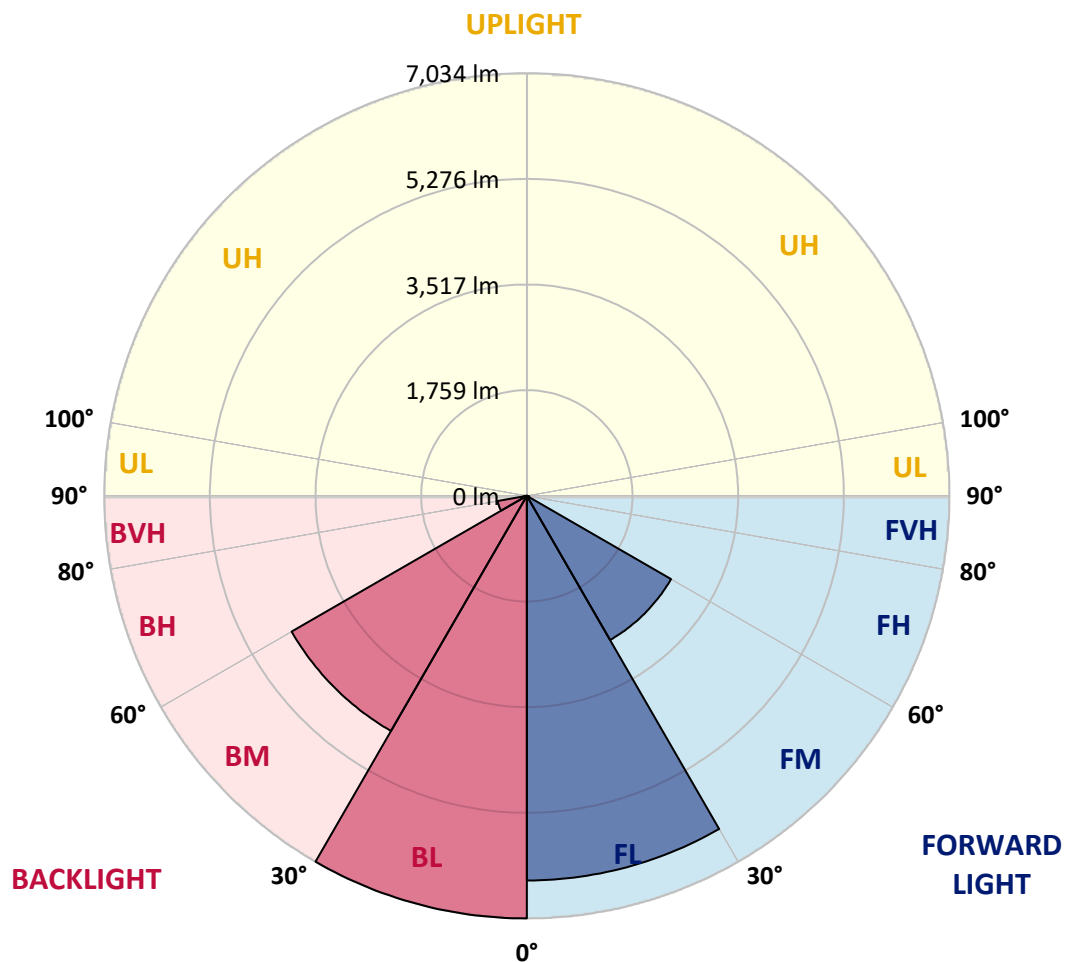
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6401.9	30.0			
FM	(30°-60°)	2771.5	13.0			
FH	(60°-80°)	40.1	0.2			G0/660
FVH	(80°-90°)	4.5	0.0			G0/10
BL	(0°-30°)	7034.1	33.0	B5		
BM	(30°-60°)	4520.4	21.2	B3/5000		
BH	(60°-80°)	493.6	2.3	B1/500		G1/500
BVH	(80°-90°)	44.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6
2.5°	25463.3	25359.3	25211.5	25197.8	25274.4	25441.4	25334.7	25340.1	25274.4	25386.7
5°	25063.7	24965.1	24863.8	24729.7	24841.9	24913.1	24858.4	24798.1	24713.3	24822.8
7.5°	24308.1	24253.4	24102.8	24042.6	24111.0	24190.4	24072.7	24056.3	23938.6	24080.9
10°	23153.0	23131.1	22983.2	22947.6	23007.9	23128.3	23076.3	23065.4	22991.4	22977.8
12.5°	21954.0	21869.1	21685.7	21674.8	21765.1	21945.8	21806.2	21672.0	21713.1	21748.7
15°	18866.2	18775.8	19230.3	19944.7	20319.7	20306.1	20347.1	20185.6	20136.3	20152.8
17.5°	14998.2	14844.9	15009.2	16115.1	17897.1	18931.9	18647.2	18299.5	18113.4	17990.2
20°	12945.2	12953.4	12923.3	13208.0	14319.4	16679.0	16610.6	15939.9	15696.3	15595.0
22.5°	11696.9	11650.4	11584.7	11675.0	11973.4	13358.5	14286.5	13670.6	13585.7	13473.5
25°	10473.3	10473.3	10393.9	10484.3	10569.1	10588.3	11519.0	11770.8	11606.6	11606.6
27.5°	9413.9	9359.2	9323.6	9364.7	9252.4	8713.2	8830.9	10120.2	10007.9	9939.5
30°	8362.8	8346.3	8286.1	8340.9	7924.8	7317.1	7070.7	8540.7	8658.4	8633.8
32.5°	6903.7	6969.4	7237.7	7322.6	6610.8	6120.8	5885.4	7089.9	7560.7	7541.5
35°	4691.9	4746.7	5053.2	6066.1	5480.3	5129.9	5061.5	5639.1	6413.7	6487.6
37.5°	3736.6	3728.3	3815.9	3996.6	4404.5	4319.6	4300.5	4451.0	5231.2	5264.0
40°	3079.6	3068.6	3065.9	2918.1	2816.8	3591.5	3539.5	3449.1	4125.3	4191.0
42.5°	2482.8	2493.8	2502.0	2179.0	2031.2	2770.3	2740.1	2647.1	3235.6	3312.3
45°	1949.0	1946.3	1962.7	1623.3	1582.2	1771.1	2047.6	1973.7	2441.8	2523.9
47.5°	1010.1	1045.7	1267.4	1256.5	1275.6	1256.5	1549.4	1530.2	1836.8	1968.2
50°	678.9	689.8	709.0	711.7	1004.6	925.2	1051.2	1190.8	1286.6	1489.1
52.5°	525.6	533.8	484.5	454.4	615.9	684.4	689.8	824.0	897.9	1103.2
55°	292.9	328.5	353.1	355.9	339.4	506.4	503.7	610.4	667.9	804.8
57.5°	38.3	46.5	71.2	229.9	227.2	282.0	353.1	443.5	476.3	588.5
60°	2.7	5.5	8.2	35.6	150.6	164.2	240.9	276.5	331.2	413.3
62.5°	0.0	0.0	2.7	8.2	30.1	95.8	125.9	145.1	194.4	271.0
65°	0.0	0.0	2.7	5.5	10.9	35.6	49.3	79.4	115.0	167.0
67.5°	0.0	0.0	2.7	5.5	8.2	13.7	21.9	35.6	60.2	101.3
70°	0.0	0.0	2.7	5.5	8.2	10.9	16.4	21.9	32.8	54.7
72.5°	0.0	0.0	2.7	2.7	5.5	13.7	13.7	16.4	21.9	30.1
75°	0.0	0.0	2.7	5.5	8.2	13.7	13.7	13.7	16.4	19.2
77.5°	0.0	0.0	2.7	5.5	8.2	13.7	10.9	13.7	13.7	13.7
80°	0.0	0.0	2.7	5.5	8.2	13.7	16.4	13.7	10.9	10.9
82.5°	0.0	0.0	2.7	8.2	8.2	19.2	19.2	19.2	8.2	8.2
85°	0.0	0.0	5.5	8.2	13.7	21.9	21.9	16.4	8.2	5.5
87.5°	0.0	0.0	2.7	5.5	5.5	10.9	16.4	13.7	5.5	2.7
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°
25460.6	0°	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6	25460.6
25222.4	2.5°	25425.0	25356.6	25485.2	25501.6	25446.9	25378.5	25219.7	25206.0	24929.5
24664.0	5°	24943.2	24831.0	24913.1	24967.9	24948.7	24874.8	24809.1	24748.9	24499.8
23757.9	7.5°	24045.3	24004.3	24042.6	24083.7	24163.1	24083.7	24056.3	23993.3	23747.0
22865.5	10°	23048.9	22972.3	23117.4	23098.2	23076.3	23054.4	22939.4	22950.4	22660.2
21650.1	12.5°	21825.3	21696.7	21836.3	21852.7	21836.3	21759.6	21631.0	21685.7	21420.2
20007.7	15°	20180.1	20166.4	20267.7	20333.4	20380.0	20297.8	20254.0	20281.4	20122.6
17894.4	17.5°	18159.9	18337.9	18669.1	18781.3	18784.1	18868.9	18844.3	18811.4	18693.7
15553.9	20°	15783.9	16126.0	16635.2	17158.0	17308.6	17237.4	17204.6	17264.8	17089.6
13355.8	22.5°	13591.2	13884.1	14475.4	15239.1	15679.8	15723.6	15715.4	15663.4	15595.0
11595.6	25°	11729.8	11989.8	12556.5	13254.5	14100.4	14226.3	14231.8	14215.3	14155.1
9999.7	27.5°	10158.5	10473.3	10785.4	11409.5	12310.1	12830.2	12764.5	12745.3	12723.4
8652.9	30°	8735.1	9132.0	9424.9	9813.6	10621.1	11324.6	11393.1	11360.2	11308.2
7538.8	32.5°	7607.2	7842.7	8214.9	8477.7	9058.1	9854.7	10117.4	10092.8	10046.3
6534.2	35°	6627.3	6720.3	7013.2	7306.1	7692.1	8464.1	8852.8	8798.0	8789.8
5324.2	37.5°	5458.4	5770.4	5932.0	6227.6	6498.6	7098.1	7634.6	7610.0	7612.7
4281.3	40°	4407.2	4587.9	4908.2	5157.3	5406.4	5844.4	6441.1	6457.5	6452.1
3315.0	42.5°	3383.4	3558.6	3895.3	4166.3	4388.1	4659.1	5228.4	5247.6	5272.2
2581.4	45°	2641.6	2753.8	3000.2	3282.1	3517.6	3681.8	4114.3	4237.5	4240.2
2001.0	47.5°	2050.3	2179.0	2354.2	2625.2	2855.1	2972.8	3287.6	3454.6	3446.4
1535.7	50°	1609.6	1727.3	1869.6	2083.2	2332.3	2425.3	2658.0	2822.3	2814.1
1157.9	52.5°	1231.8	1382.4	1508.3	1672.6	1916.2	1995.6	2162.5	2351.4	2324.1
848.6	55°	933.5	1086.7	1204.5	1341.3	1563.1	1664.3	1779.3	1929.9	1935.3
657.0	57.5°	703.5	862.3	969.0	1108.6	1275.6	1387.9	1475.5	1637.0	1634.2
448.9	60°	503.7	640.6	769.2	914.3	1043.0	1171.6	1231.8	1385.1	1390.6
317.5	62.5°	364.1	492.7	615.9	741.8	856.8	982.7	1037.5	1157.9	1174.3
208.0	65°	254.6	344.9	487.3	583.1	711.7	804.8	876.0	980.0	999.2
123.2	67.5°	164.2	249.1	386.0	470.8	588.5	667.9	741.8	824.0	848.6
79.4	70°	98.5	188.9	287.4	377.8	484.5	555.7	626.9	698.0	711.7
38.3	72.5°	63.0	131.4	208.0	306.6	388.7	465.4	528.3	580.3	539.3
24.6	75°	35.6	90.3	164.2	240.9	314.8	388.7	440.7	468.1	375.0
16.4	77.5°	21.9	65.7	134.1	194.4	243.6	312.1	344.9	361.3	268.3
10.9	80°	13.7	49.3	112.2	158.8	158.8	229.9	268.3	282.0	194.4
8.2	82.5°	10.9	35.6	87.6	120.4	106.8	172.5	210.8	213.5	136.9
5.5	85°	8.2	27.4	54.7	79.4	73.9	120.4	123.2	136.9	90.3
5.5	87.5°	5.5	16.4	32.8	46.5	41.1	57.5	65.7	73.9	49.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25460.6
24713.3
24299.9
23695.0
22561.7
21343.5
19931.0
18518.5
16963.7
15463.6
13952.5
12594.8
11242.5
9923.1
8699.5
7525.1
6356.2
5190.1
4169.1
3416.3
2814.1
2326.8
1935.3
1628.8
1376.9
1168.9
993.7
845.9
700.8
500.9
355.9
251.8
180.7
125.9
82.1
43.8
0.0

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