

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: P638766

Luminaire Tested: **EPH-VN-08-D-935-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638766
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-935-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31212.7 lumens
Efficiency: N/A
Efficacy: 63.9 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



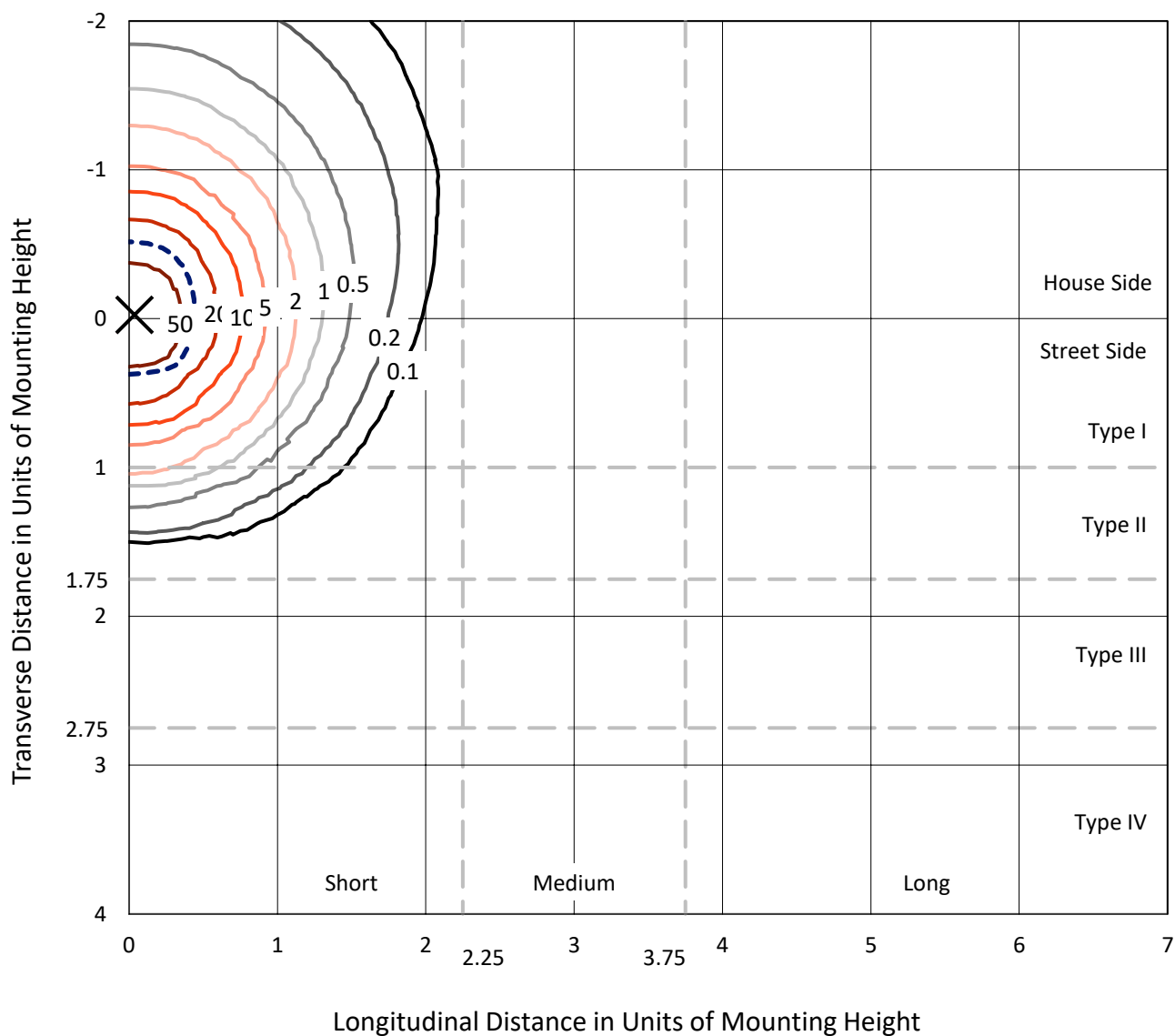
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

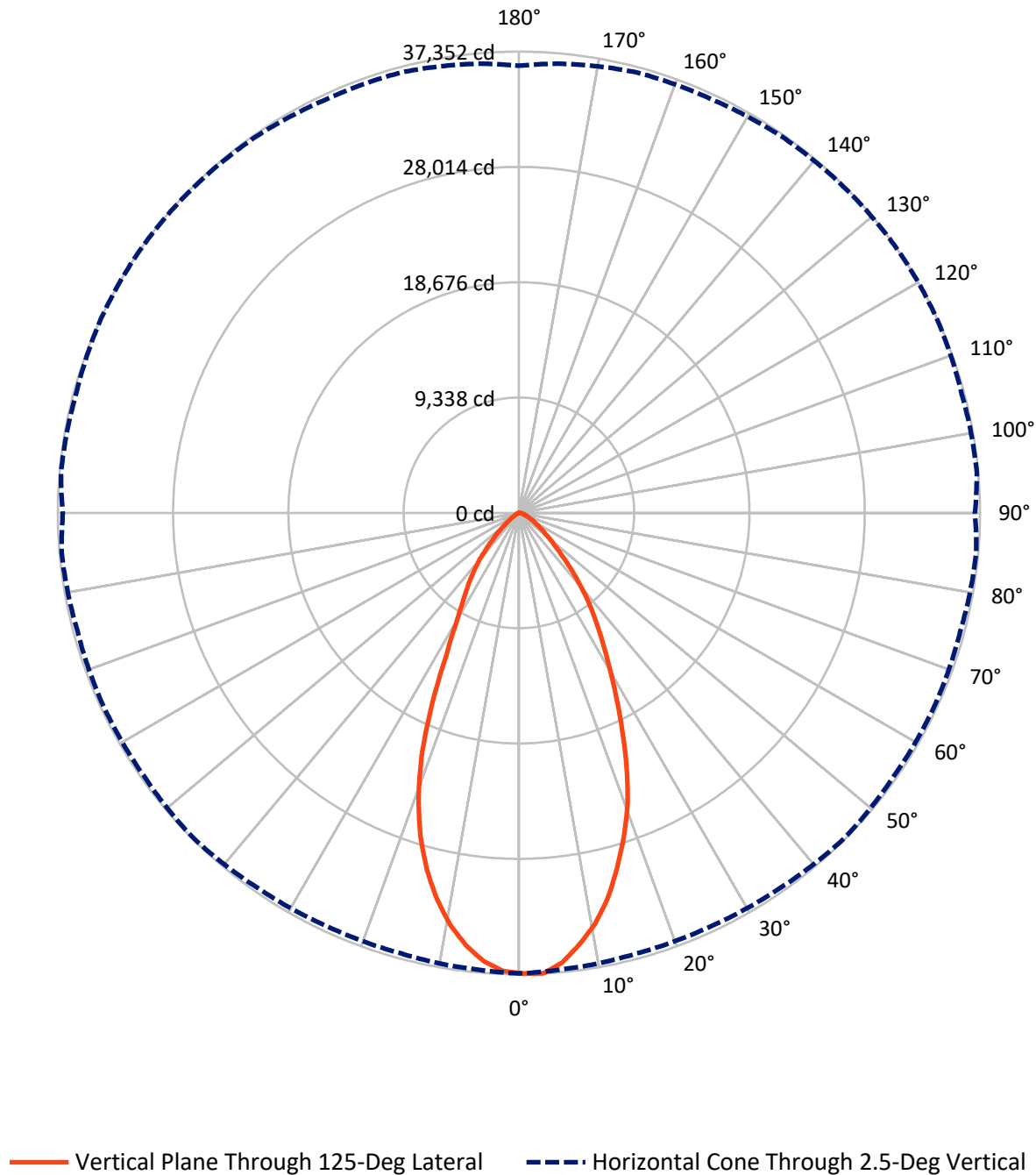


Based on 20 foot mounting height. Maximum calculated value = 93.2 fc

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	17711.3	0.0	17711.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13501.4	0.0	13501.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	31212.7	0.0	31212.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3386.2	10.8
10°-20°	8072.0	25.9
20°-30°	8221.2	26.3
30°-40°	6130.5	19.6
40°-50°	3202.7	10.3
50°-60°	1347.1	4.3
60°-70°	550.1	1.8
70°-80°	231.5	0.7
80°-90°	71.3	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°	31212.7	100.0
0°-180°	31212.7	100.0

Coefficient of Utilization



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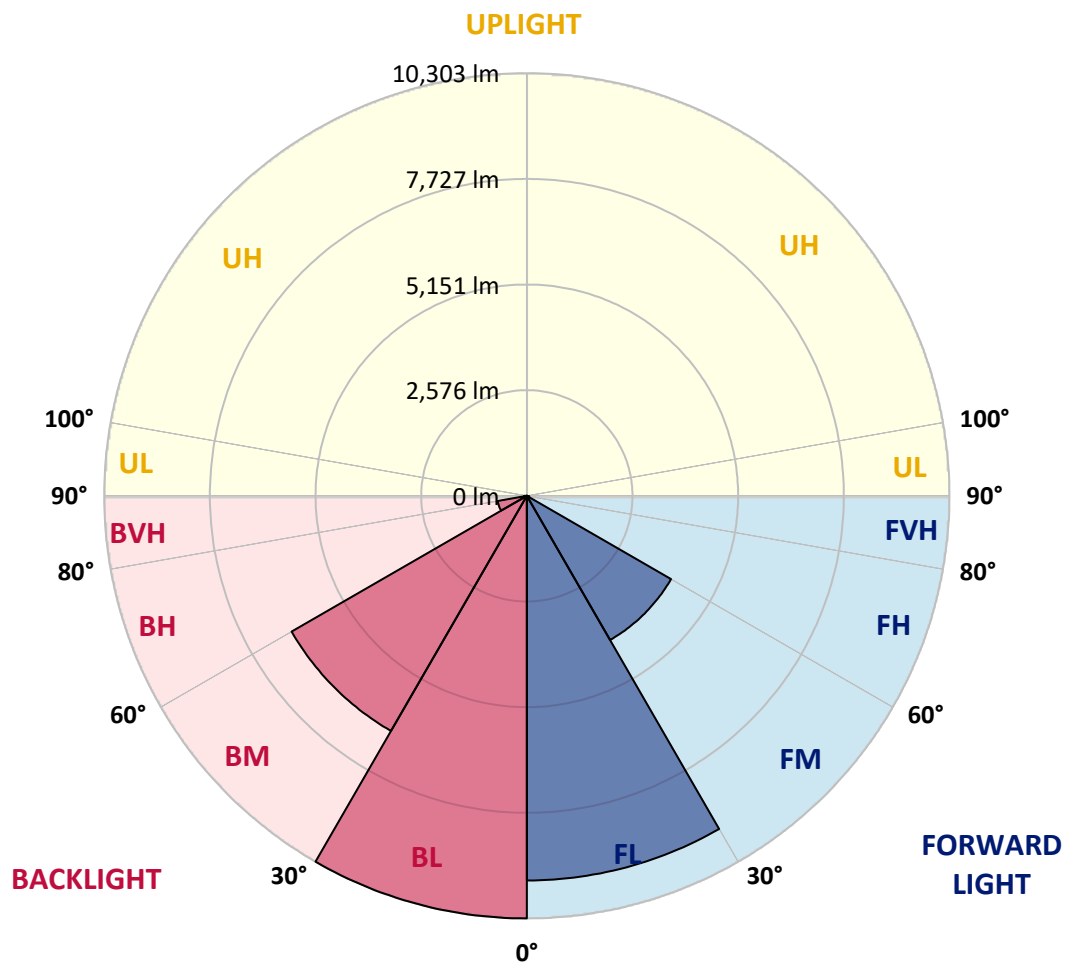
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9376.7	30.0			
FM	(30°-60°)	4059.3	13.0			
FH	(60°-80°)	58.7	0.2			G0/660
FVH	(80°-90°)	6.6	0.0			G0/10
BL	(0°-30°)	10302.7	33.0	B5		
BM	(30°-60°)	6621.0	21.2	B4/8500		
BH	(60°-80°)	722.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	64.7	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°	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6
2.5°	37295.6	37143.3	36926.8	36906.7	37019.0	37263.6	37107.2	37115.2	37019.0	37183.4
5°	36710.3	36565.9	36417.6	36221.1	36385.5	36489.8	36409.6	36321.4	36197.1	36357.4
7.5°	35603.7	35523.5	35303.0	35214.8	35315.0	35431.3	35258.9	35234.8	35062.4	35270.9
10°	33911.7	33879.6	33663.1	33611.0	33699.2	33875.6	33799.4	33783.4	33675.1	33655.1
12.5°	32155.6	32031.3	31762.6	31746.6	31878.9	32143.5	31939.1	31742.6	31802.7	31854.9
15°	27632.9	27500.6	28166.2	29212.7	29761.9	29741.9	29802.0	29565.5	29493.3	29517.4
17.5°	21967.6	21743.1	21983.7	23603.5	26213.6	27729.2	27312.2	26803.0	26530.3	26349.9
20°	18960.6	18972.6	18928.5	19345.5	20973.3	24429.4	24329.2	23346.9	22990.0	22841.7
22.5°	17132.3	17064.1	16967.9	17100.2	17537.2	19566.0	20925.2	20023.1	19898.8	19734.4
25°	15340.1	15340.1	15223.8	15356.1	15480.4	15508.4	16871.7	17240.5	17000.0	17000.0
27.5°	13788.4	13708.2	13656.1	13716.2	13551.8	12762.0	12934.4	14822.8	14658.4	14558.2
30°	12248.8	12224.7	12136.5	12216.7	11607.3	10717.2	10356.3	12509.4	12681.8	12645.7
32.5°	10111.8	10208.0	10600.9	10725.2	9682.8	8965.1	8620.3	10384.4	11074.0	11046.0
35°	6872.2	6952.3	7401.4	8884.9	8026.9	7513.7	7413.4	8259.4	9394.1	9502.3
37.5°	5472.9	5460.8	5589.1	5853.8	6451.2	6326.9	6298.8	6519.3	7662.0	7710.1
40°	4510.6	4494.6	4490.6	4274.0	4125.7	5260.4	5184.2	5051.9	6042.2	6138.4
42.5°	3636.5	3652.6	3664.6	3191.5	2975.0	4057.5	4013.4	3877.1	4739.1	4851.4
45°	2854.7	2850.7	2874.8	2377.6	2317.4	2594.1	2999.0	2890.8	3576.4	3696.7
47.5°	1479.5	1531.6	1856.4	1840.3	1868.4	1840.3	2269.3	2241.3	2690.3	2882.8
50°	994.3	1010.4	1038.4	1042.4	1471.5	1355.2	1539.6	1744.1	1884.4	2181.1
52.5°	769.8	781.8	709.7	665.6	902.1	1002.4	1010.4	1206.8	1315.1	1615.8
55°	429.0	481.1	517.2	521.2	497.2	741.7	737.7	894.1	978.3	1178.8
57.5°	56.1	68.2	104.2	336.8	332.8	413.0	517.2	649.5	697.6	862.0
60°	4.0	8.0	12.0	52.1	220.5	240.6	352.8	405.0	485.1	605.4
62.5°	0.0	0.0	4.0	12.0	44.1	140.3	184.4	212.5	284.7	396.9
65°	0.0	0.0	4.0	8.0	16.0	52.1	72.2	116.3	168.4	244.6
67.5°	0.0	0.0	4.0	8.0	12.0	20.0	32.1	52.1	88.2	148.3
70°	0.0	0.0	4.0	8.0	12.0	16.0	24.1	32.1	48.1	80.2
72.5°	0.0	0.0	4.0	4.0	8.0	20.0	20.0	24.1	32.1	44.1
75°	0.0	0.0	4.0	8.0	12.0	20.0	20.0	20.0	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	12.0	20.0	16.0	20.0	20.0	20.0
80°	0.0	0.0	4.0	8.0	12.0	20.0	24.1	20.0	16.0	16.0
82.5°	0.0	0.0	4.0	12.0	12.0	28.1	28.1	28.1	12.0	12.0
85°	0.0	0.0	8.0	12.0	20.0	32.1	32.1	24.1	12.0	8.0
87.5°	0.0	0.0	4.0	8.0	8.0	16.0	24.1	20.0	8.0	4.0
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°
37291.6	0°	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6	37291.6
36942.8	2.5°	37239.5	37139.3	37327.7	37351.8	37271.6	37171.4	36938.8	36918.8	36513.8
36124.9	5°	36533.9	36369.5	36489.8	36569.9	36541.9	36433.6	36337.4	36249.2	35884.3
34797.8	7.5°	35218.8	35158.6	35214.8	35274.9	35391.2	35274.9	35234.8	35142.6	34781.7
33490.7	10°	33759.3	33647.1	33859.6	33831.5	33799.4	33767.4	33599.0	33615.0	33190.0
31710.5	12.5°	31967.1	31778.7	31983.2	32007.2	31983.2	31870.9	31682.5	31762.6	31373.7
29304.9	15°	29557.5	29537.4	29685.8	29782.0	29850.2	29729.9	29665.7	29705.8	29473.3
26209.6	17.5°	26598.5	26859.1	27344.3	27508.6	27512.7	27636.9	27600.9	27552.8	27380.3
22781.5	20°	23118.3	23619.5	24365.3	25131.1	25351.6	25247.3	25199.2	25287.4	25030.8
19562.0	22.5°	19906.8	20335.8	21201.8	22320.5	22966.0	23030.1	23018.1	22941.9	22841.7
16983.9	25°	17180.4	17561.3	18391.2	19413.6	20652.5	20837.0	20845.0	20820.9	20732.7
14646.4	27.5°	14879.0	15340.1	15797.1	16711.3	18030.4	18792.2	18695.9	18667.9	18635.8
12673.8	30°	12794.1	13375.4	13804.4	14373.8	15556.6	16587.0	16687.2	16639.1	16562.9
11041.9	32.5°	11142.2	11487.0	12032.3	12417.2	13267.2	14433.9	14818.8	14782.7	14714.6
9570.5	35°	9706.8	9843.1	10272.1	10701.1	11266.5	12397.1	12966.5	12886.3	12874.3
7798.3	37.5°	7994.8	8451.9	8688.4	9121.4	9518.4	10396.4	11182.3	11146.2	11150.2
6270.7	40°	6455.2	6719.8	7188.9	7553.8	7918.6	8560.1	9434.2	9458.2	9450.2
4855.4	42.5°	4955.6	5212.2	5705.4	6102.3	6427.1	6824.0	7658.0	7686.1	7722.1
3780.9	45°	3869.1	4033.5	4394.3	4807.3	5152.1	5392.7	6026.2	6206.6	6210.6
2930.9	47.5°	3003.1	3191.5	3448.1	3845.0	4181.8	4354.2	4815.3	5059.9	5047.9
2249.3	50°	2357.5	2529.9	2738.4	3051.2	3416.0	3552.3	3893.1	4133.7	4121.7
1696.0	52.5°	1804.2	2024.8	2209.2	2449.8	2806.6	2922.9	3167.4	3444.1	3404.0
1242.9	55°	1367.2	1591.7	1764.1	1964.6	2289.4	2437.7	2606.1	2826.6	2834.7
962.3	57.5°	1030.4	1263.0	1419.3	1623.8	1868.4	2032.8	2161.1	2397.6	2393.6
657.5	60°	737.7	938.2	1126.6	1339.1	1527.6	1716.0	1804.2	2028.8	2036.8
465.1	62.5°	533.3	721.7	902.1	1086.6	1254.9	1439.4	1519.6	1696.0	1720.0
304.7	65°	372.9	505.2	713.7	854.0	1042.4	1178.8	1283.0	1435.4	1463.4
180.4	67.5°	240.6	364.9	565.3	689.6	862.0	978.3	1086.6	1206.8	1242.9
116.3	70°	144.3	276.7	421.0	553.3	709.7	813.9	918.2	1022.4	1042.4
56.1	72.5°	92.2	192.5	304.7	449.1	569.3	681.6	773.8	850.0	789.9
36.1	75°	52.1	132.3	240.6	352.8	461.1	569.3	645.5	685.6	549.3
24.1	77.5°	32.1	96.2	196.5	284.7	356.8	457.1	505.2	529.2	392.9
16.0	80°	20.0	72.2	164.4	232.5	232.5	336.8	392.9	413.0	284.7
12.0	82.5°	16.0	52.1	128.3	176.4	156.4	252.6	308.7	312.7	200.5
8.0	85°	12.0	40.1	80.2	116.3	108.3	176.4	180.4	200.5	132.3
8.0	87.5°	8.0	24.1	48.1	68.2	60.1	84.2	96.2	108.3	72.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37291.6
36197.1
35591.6
34705.6
33045.7
31261.5
29192.6
27123.7
24846.4
22649.2
20436.0
18447.4
16466.7
14534.2
12741.9
11021.9
9309.9
7601.9
6106.4
5003.8
4121.7
3408.0
2834.7
2385.6
2016.7
1712.0
1455.4
1238.9
1026.4
733.7
521.2
368.9
264.6
184.4
120.3
64.2
0.0

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