

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: P638716

Luminaire Tested: **EPH-VN-06-E-940-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638716
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-940-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35915.6 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

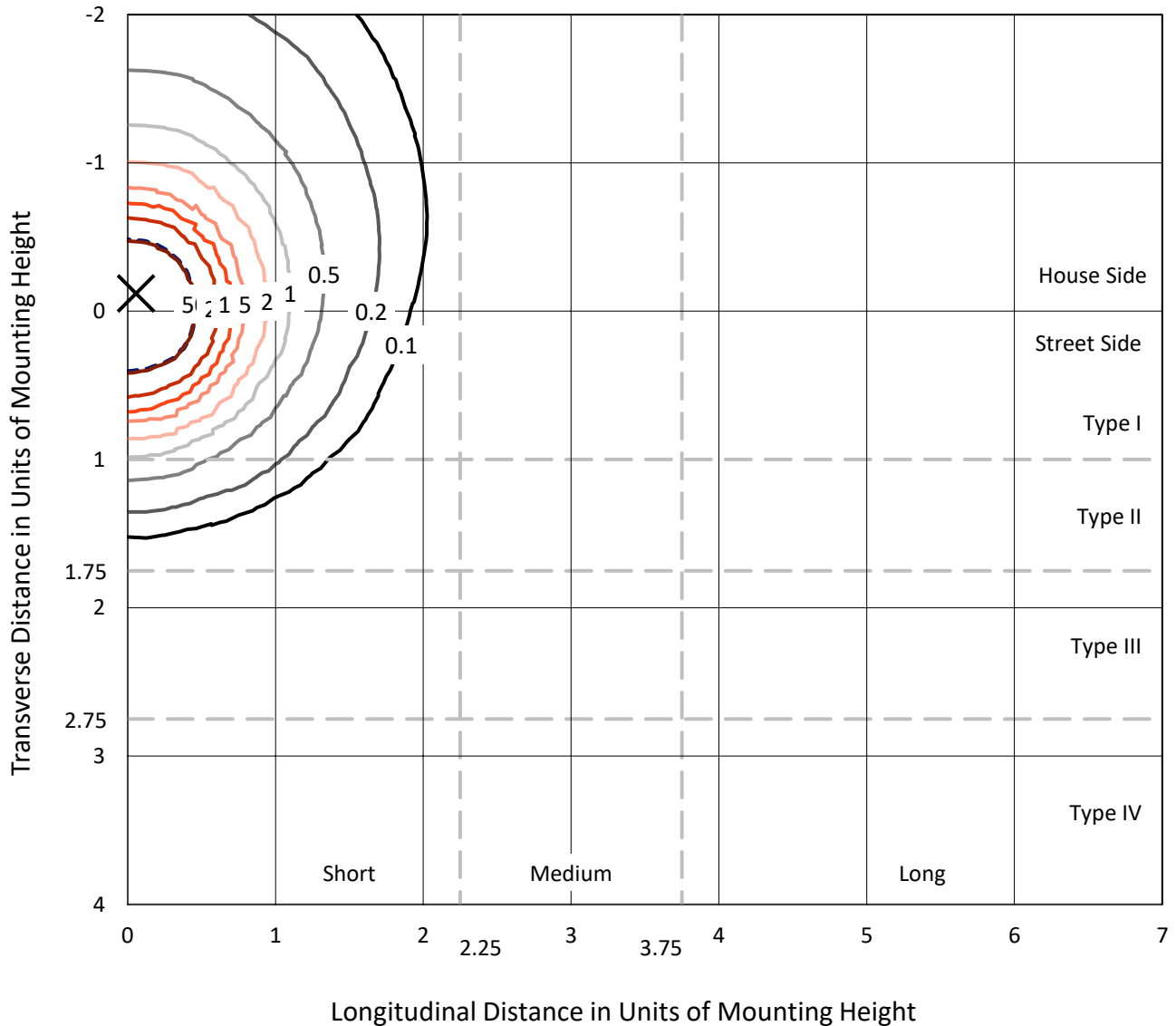
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

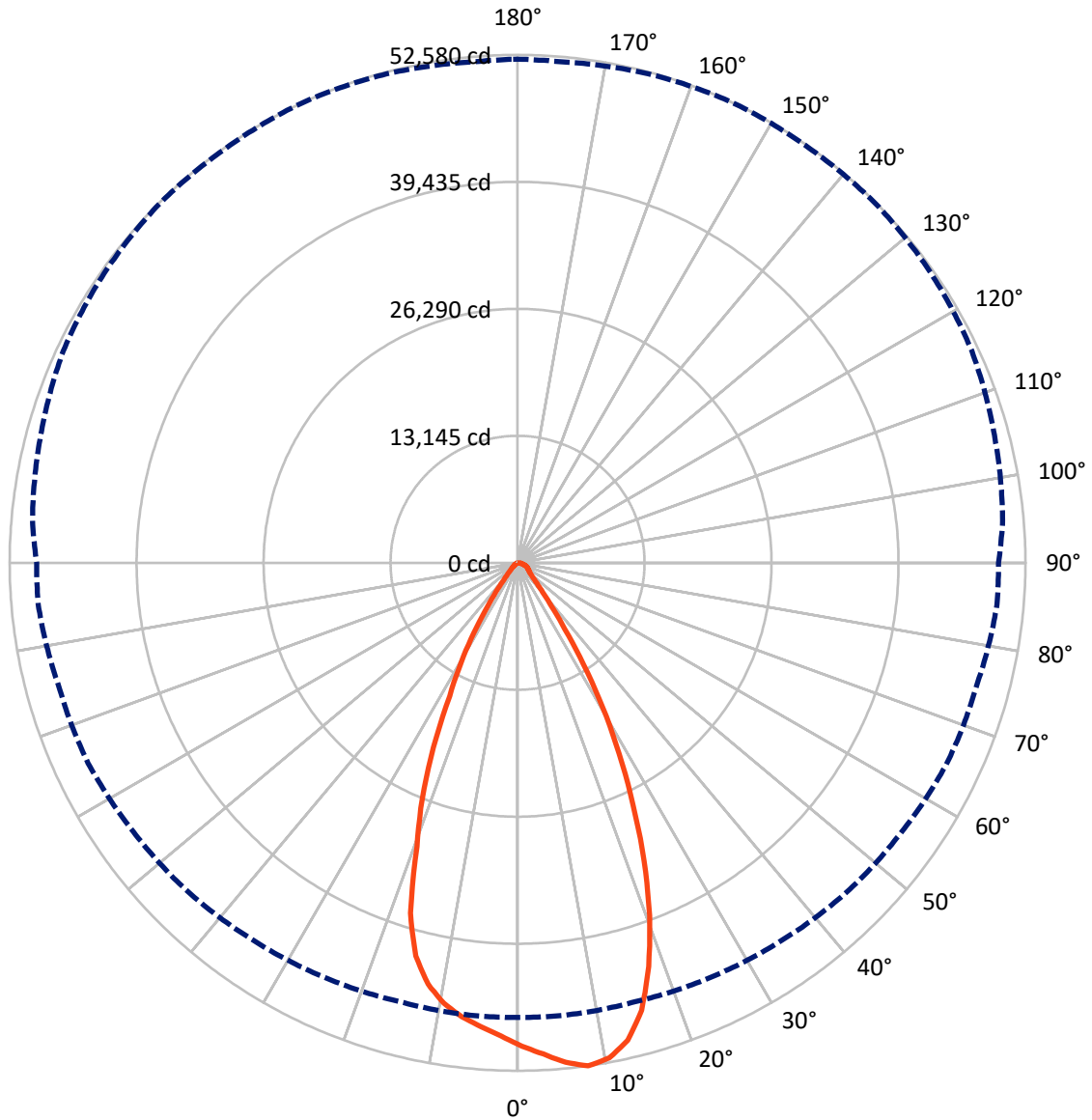
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 127.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638716
CATALOG NUMBER: EPH-VN-06-E-940-U-55-VI

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	19826.7	0.0	19826.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16088.9	0.0	16088.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	35915.6	0.0	35915.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4771.0	13.3
10°-20°	12371.2	34.4
20°-30°	11335.5	31.6
30°-40°	4579.5	12.8
40°-50°	1343.4	3.7
50°-60°	751.1	2.1
60°-70°	456.2	1.3
70°-80°	231.8	0.6
80°-90°	75.8	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°	35915.6	100.0
0°-180°	35915.6	100.0

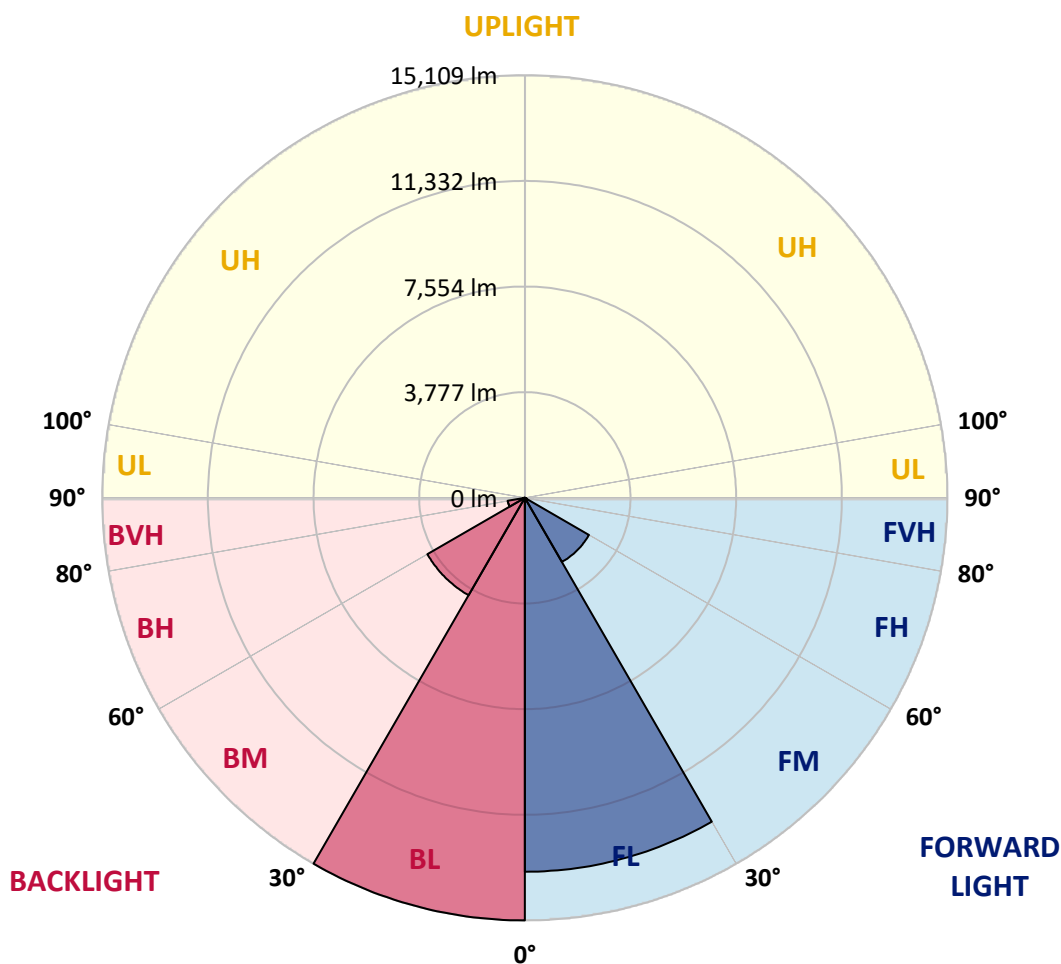


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13368.7	37.2			
FM (30°-60°)	2649.4	7.4			
FH (60°-80°)	64.2	0.2			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	15109.0	42.1	B5		
BM (30°-60°)	4024.7	11.2	B3/5000		
BH (60°-80°)	623.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	69.2	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3
2.5°	48948.2	49113.9	48782.5	49002.0	49171.8	49577.7	49610.8	49751.7	49801.4	50169.9
5°	48020.5	48148.9	47879.7	48173.7	48414.0	48774.3	49051.7	49441.0	49656.4	50091.3
7.5°	47055.5	47084.5	47030.7	47341.3	47701.6	48198.6	48542.3	49051.7	49184.3	49805.5
10°	45887.6	45676.4	45780.0	46235.5	46773.9	47536.0	47772.0	48281.4	48517.5	49151.1
12.5°	44024.0	44131.7	44003.3	44583.1	45030.4	45895.9	46144.4	46658.0	47109.4	47668.5
15°	41398.3	41336.2	41597.1	42048.5	42533.0	43220.5	43622.3	44181.4	44525.1	45104.9
17.5°	35496.7	35707.9	36784.7	37915.3	38909.2	39712.7	40193.1	40657.0	40905.4	41534.9
20°	30655.3	30390.2	30535.2	31173.0	34001.6	35231.6	35736.9	35848.7	35952.2	36449.2
22.5°	25242.3	25155.4	25639.9	26356.4	27027.3	29864.2	30551.7	30290.8	30506.2	30974.2
25°	18744.4	19183.4	19614.1	20989.0	21858.8	23250.3	24554.9	24670.8	24749.5	25043.6
27.5°	15257.2	15104.0	15095.7	15480.9	16764.7	17924.3	19034.3	19291.0	19245.5	19527.1
30°	11993.7	11944.0	11770.1	11861.2	11732.8	12764.1	13285.9	14342.0	14284.0	14292.3
32.5°	8651.6	8465.2	8394.8	8531.5	8398.9	8303.7	8759.2	9952.0	9931.3	10014.1
35°	5234.8	5210.0	5268.0	5388.1	5123.0	5114.7	5210.0	6332.3	6469.0	6601.5
37.5°	2890.8	2865.9	2911.5	3354.6	3267.6	3188.9	3213.8	3806.0	4199.5	4298.9
40°	1905.1	1900.9	1934.1	2012.8	2161.9	2132.9	2145.3	2410.3	2783.1	2870.0
42.5°	1275.6	1279.7	1300.4	1391.5	1412.2	1561.3	1536.5	1598.6	1946.5	2021.0
45°	1018.8	1014.7	1027.1	985.7	1010.5	1163.8	1180.3	1184.5	1482.7	1528.2
47.5°	803.4	803.4	815.9	762.0	749.6	844.9	931.8	944.3	1184.5	1246.6
50°	563.2	563.2	625.4	600.5	629.5	658.5	753.8	766.2	969.1	1035.4
52.5°	414.1	422.4	430.7	434.9	530.1	526.0	608.8	666.8	733.0	849.0
55°	314.8	323.0	302.3	323.0	393.4	439.0	455.6	538.4	583.9	712.3
57.5°	207.1	227.8	211.2	248.5	265.1	339.6	364.5	443.1	472.1	583.9
60°	29.0	33.1	53.8	173.9	186.4	223.6	281.6	352.0	381.0	476.3
62.5°	4.1	4.1	12.4	29.0	124.2	149.1	211.2	244.3	281.6	356.2
65°	0.0	0.0	4.1	8.3	24.8	87.0	107.7	132.5	194.6	256.8
67.5°	0.0	0.0	4.1	8.3	12.4	29.0	45.6	87.0	111.8	178.1
70°	0.0	0.0	4.1	8.3	12.4	16.6	24.8	33.1	66.3	103.5
72.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	24.8	29.0	66.3
75°	0.0	0.0	4.1	8.3	12.4	20.7	24.8	24.8	24.8	29.0
77.5°	0.0	0.0	4.1	8.3	16.6	24.8	29.0	24.8	20.7	20.7
80°	0.0	0.0	4.1	12.4	20.7	29.0	33.1	24.8	16.6	12.4
82.5°	0.0	0.0	4.1	12.4	20.7	29.0	33.1	29.0	16.6	12.4
85°	0.0	0.0	4.1	12.4	16.6	20.7	33.1	29.0	16.6	8.3
87.5°	0.0	0.0	0.0	4.1	4.1	8.3	16.6	12.4	8.3	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638716
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
50033.3	0°	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3	50033.3
50161.7	2.5°	50534.4	50720.8	51047.9	51139.0	51420.7	51097.6	50919.6	50936.1	50551.0
50037.4	5°	50534.4	50961.0	51532.5	51805.8	52012.9	51996.3	51950.8	51834.8	51553.2
49788.9	7.5°	50401.9	51097.6	51884.5	52249.0	52497.5	52476.7	52580.3	52393.9	52050.2
49345.8	10°	49975.3	50579.9	51549.1	51847.2	52249.0	52257.3	52128.9	52166.1	51553.2
47726.5	12.5°	48633.5	49105.6	49954.6	50294.2	50782.9	50861.6	50720.8	50666.9	50087.1
45071.8	15°	46036.7	46310.1	47163.2	47502.8	47987.4	47921.1	48061.9	48003.9	47494.5
41485.2	17.5°	42239.0	42326.0	43220.5	43506.3	43961.9	44139.9	43928.7	44197.9	43758.9
36536.2	20°	36792.9	37260.9	38267.3	38706.3	38971.4	39290.3	39012.8	39315.1	38801.6
30531.0	22.5°	31268.2	31545.7	32456.8	33090.5	33583.3	33645.4	33541.9	33753.1	33061.5
25238.2	25°	25234.1	25693.8	26414.4	27242.7	27727.2	28025.4	27756.2	27892.9	27781.1
19572.7	27.5°	19904.0	20314.0	20856.5	21473.6	22202.5	22591.8	22376.4	22608.4	22061.7
14594.6	30°	14607.0	14814.1	15427.0	16081.4	16880.7	17352.8	17373.5	17609.6	17286.6
10225.3	32.5°	10299.9	10482.1	10859.0	11293.8	12055.9	12581.8	12499.0	12532.1	12333.3
6663.6	35°	6696.8	6941.1	7210.3	7417.4	7877.1	8456.9	8411.4	8369.9	8233.3
4381.7	37.5°	4476.9	4572.2	4721.3	4907.7	5205.8	5570.3	5690.4	5541.3	5483.3
2957.0	40°	3027.4	3193.1	3292.5	3433.3	3574.1	3880.6	3963.4	3934.4	3876.4
2070.7	42.5°	2149.4	2277.8	2402.1	2538.7	2613.3	2803.8	2965.3	2919.7	2894.9
1573.8	45°	1631.7	1747.7	1892.7	1996.2	2070.7	2182.6	2335.8	2352.4	2315.1
1263.2	47.5°	1308.7	1412.2	1528.2	1656.6	1743.6	1814.0	1946.5	1996.2	1971.3
1064.4	50°	1109.9	1188.6	1300.4	1428.8	1524.1	1586.2	1702.2	1756.0	1739.4
890.4	52.5°	944.3	1039.5	1143.0	1250.7	1366.7	1428.8	1536.5	1615.2	1602.8
737.2	55°	782.7	907.0	1014.7	1122.3	1254.9	1317.0	1412.2	1515.8	1495.1
625.4	57.5°	683.3	786.9	898.7	1002.2	1143.0	1225.9	1312.9	1420.5	1416.4
513.5	60°	571.5	675.1	799.3	886.3	1035.4	1151.3	1230.0	1341.8	1350.1
389.3	62.5°	455.6	583.9	679.2	799.3	936.0	1072.6	1147.2	1259.0	1300.4
298.2	65°	339.6	480.4	588.1	708.2	836.6	989.8	1056.1	1167.9	1209.3
215.4	67.5°	252.6	360.3	497.0	600.5	745.5	878.0	956.7	1060.2	1089.2
128.4	70°	190.5	277.5	414.1	505.3	654.4	762.0	840.7	919.4	956.7
87.0	72.5°	111.8	207.1	327.2	434.9	563.2	654.4	712.3	774.5	799.3
41.4	75°	78.7	157.4	256.8	360.3	455.6	530.1	583.9	637.8	662.6
20.7	77.5°	41.4	116.0	202.9	289.9	356.2	418.3	472.1	513.5	530.1
16.6	80°	24.8	82.8	165.7	227.8	273.3	327.2	381.0	410.0	405.9
12.4	82.5°	16.6	66.3	120.1	165.7	198.8	240.2	277.5	298.2	298.2
8.3	85°	12.4	45.6	82.8	128.4	132.5	165.7	173.9	194.6	198.8
8.3	87.5°	8.3	29.0	45.6	74.5	70.4	87.0	91.1	103.5	111.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
50033.3
50240.3
51644.3
52128.9
51375.1
49954.6
47656.1
43651.2
38760.2
32966.2
27710.7
22202.5
17344.5
12445.2
8113.2
5470.9
3884.7
2874.2
2310.9
1958.9
1735.3
1594.5
1495.1
1412.2
1350.1
1296.3
1205.2
1089.2
948.4
791.0
654.4
526.0
401.7
294.0
194.6
107.7
0.0

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