

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: P638688

Luminaire Tested: **EPH-VN-08-D-740-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638688
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-740-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52366.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

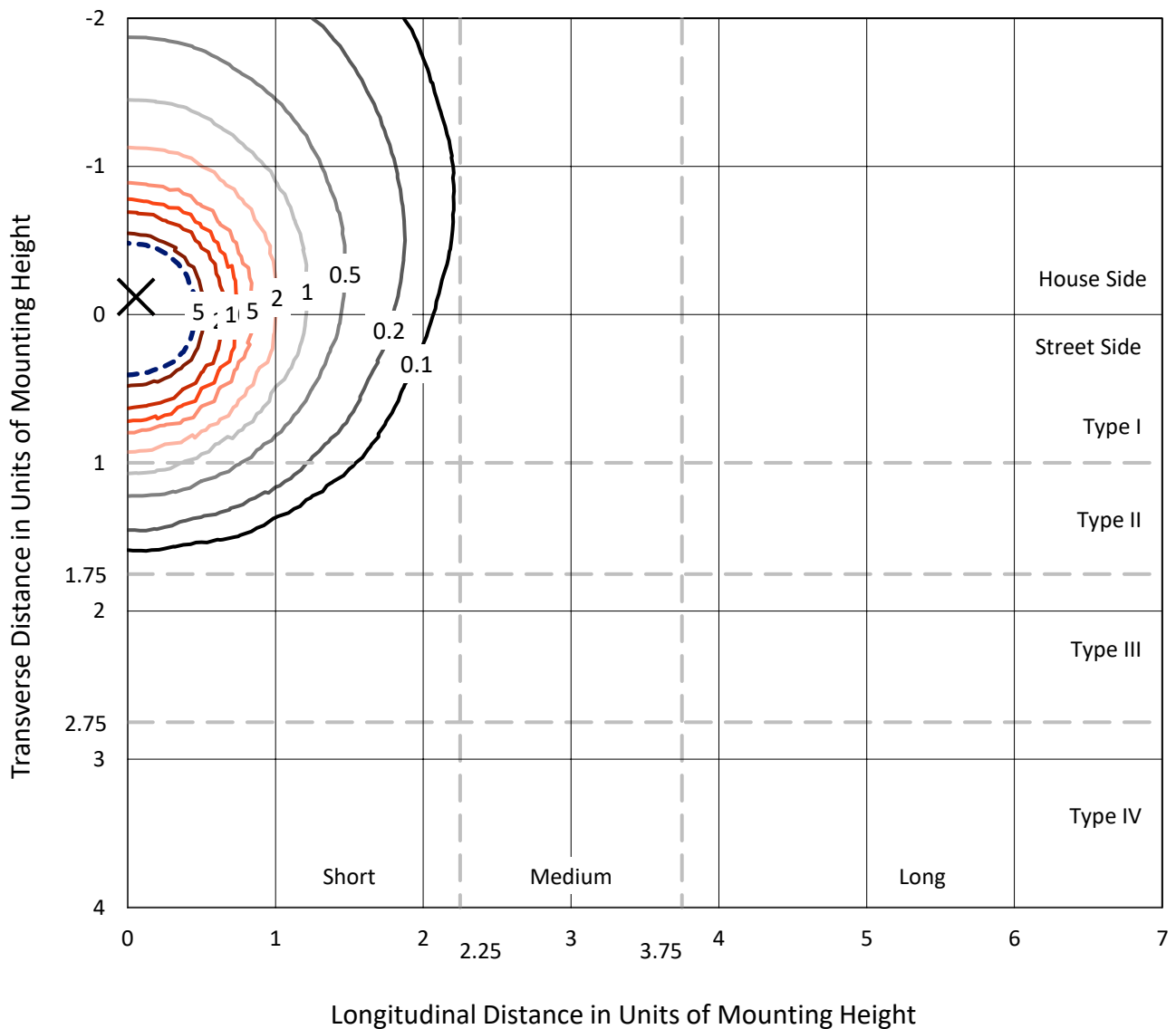
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

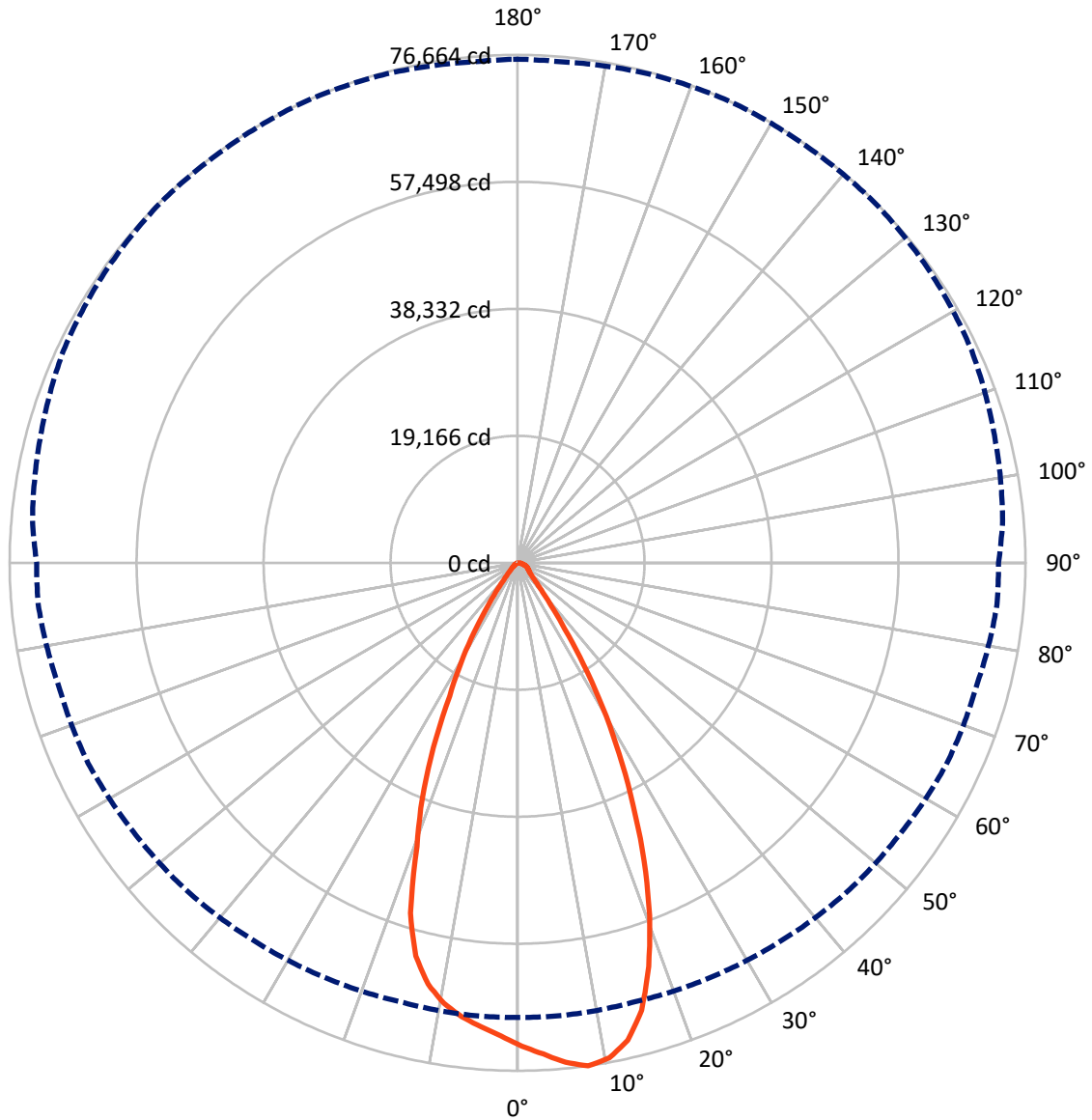
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 185.4 fc
 Type I - Short - N/A

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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	28908.0	0.0	28908.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	23458.1	0.0	23458.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	52366.1	0.0	52366.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6956.3	13.3
10°-20°	18037.6	34.4
20°-30°	16527.5	31.6
30°-40°	6677.1	12.8
40°-50°	1958.8	3.7
50°-60°	1095.2	2.1
60°-70°	665.2	1.3
70°-80°	338.0	0.6
80°-90°	110.5	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°	52366.1	100.0
0°-180°	52366.1	100.0



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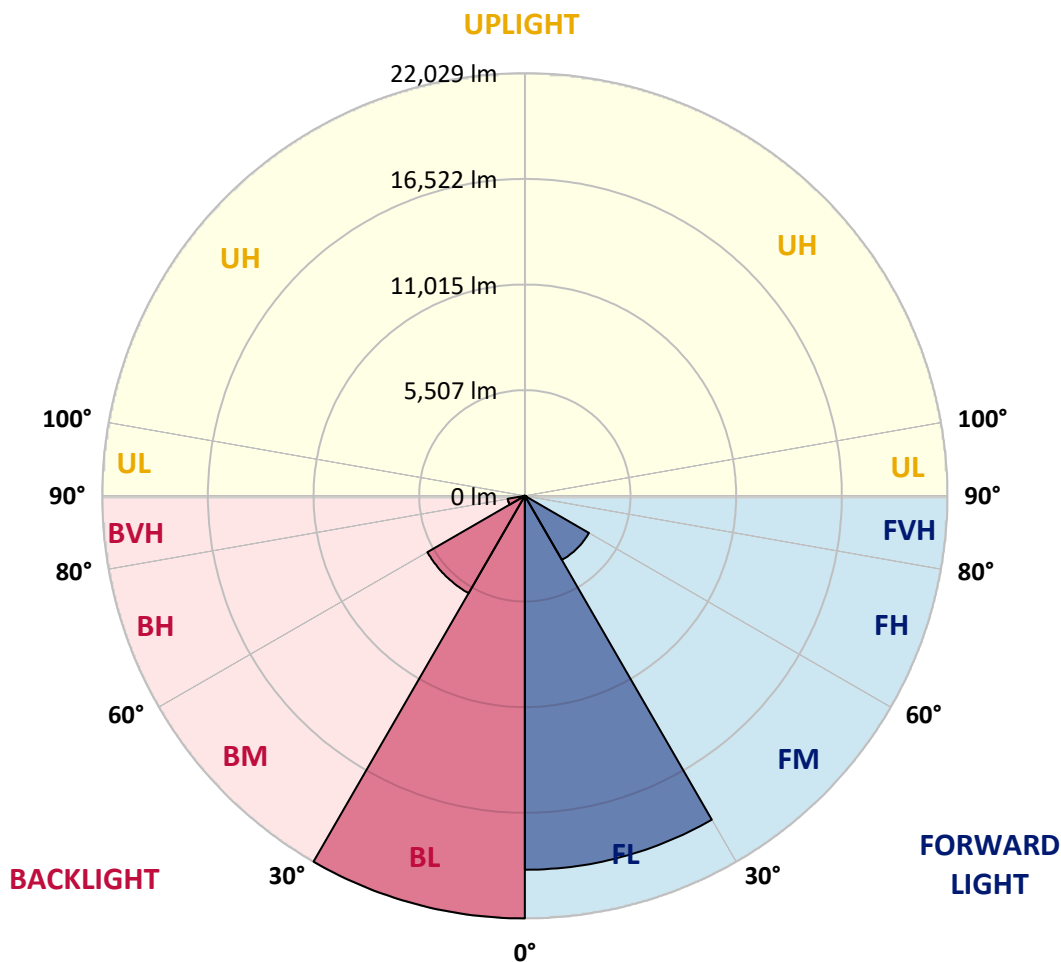
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19492.0	37.2			
FM (30°-60°)	3863.0	7.4			
FH (60°-80°)	93.6	0.2			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	22029.4	42.1	B5		
BM (30°-60°)	5868.1	11.2	B4/8500		
BH (60°-80°)	909.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	101.0	0.2			G2/225
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°	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0
2.5°	71367.9	71609.5	71126.4	71446.4	71694.0	72285.8	72334.1	72539.4	72611.9	73149.3
5°	70015.3	70202.5	69810.0	70238.8	70589.0	71114.3	71518.9	72086.5	72400.5	73034.5
7.5°	68608.4	68650.7	68572.2	69025.0	69550.4	70275.0	70776.2	71518.9	71712.1	72617.9
10°	66905.6	66597.6	66748.6	67412.8	68197.8	69308.8	69653.0	70395.8	70740.0	71663.8
12.5°	64188.3	64345.3	64158.1	65003.5	65655.6	66917.6	67279.9	68028.7	68686.9	69502.1
15°	60359.9	60269.4	60649.8	61308.0	62014.5	63016.8	63602.6	64417.7	64918.9	65764.3
17.5°	51755.2	52063.2	53633.1	55281.6	56730.8	57902.3	58602.8	59279.1	59641.4	60559.2
20°	44696.3	44309.8	44521.2	45451.1	49575.3	51368.7	52105.4	52268.5	52419.4	53144.0
22.5°	36804.1	36677.3	37383.8	38428.4	39406.7	43543.0	44545.3	44164.9	44478.9	45161.3
25°	27329.8	27969.9	28597.9	30602.7	31870.7	33899.6	35801.7	35970.8	36085.5	36514.3
27.5°	22245.5	22022.1	22010.0	22571.6	24443.5	26134.2	27752.5	28126.9	28060.5	28471.1
30°	17487.2	17414.8	17161.2	17294.0	17106.8	18610.4	19371.2	20911.0	20826.5	20838.5
32.5°	12614.2	12342.5	12239.9	12439.1	12245.9	12107.0	12771.2	14510.3	14480.1	14600.9
35°	7632.5	7596.3	7680.9	7856.0	7469.5	7457.4	7596.3	9232.7	9432.0	9625.2
37.5°	4214.8	4178.6	4245.0	4891.1	4764.3	4649.6	4685.8	5549.3	6122.9	6267.9
40°	2777.7	2771.6	2819.9	2934.7	3152.0	3109.8	3127.9	3514.4	4057.8	4184.6
42.5°	1859.8	1865.9	1896.1	2028.9	2059.1	2276.5	2240.2	2330.8	2838.1	2946.7
45°	1485.4	1479.4	1497.5	1437.1	1473.4	1696.8	1720.9	1727.0	2161.8	2228.2
47.5°	1171.5	1171.5	1189.6	1111.1	1093.0	1231.8	1358.6	1376.8	1727.0	1817.6
50°	821.2	821.2	911.8	875.6	917.8	960.1	1099.0	1117.1	1413.0	1509.6
52.5°	603.8	615.9	628.0	634.0	772.9	766.9	887.6	972.2	1068.8	1237.9
55°	458.9	471.0	440.8	471.0	573.6	640.1	664.2	785.0	851.4	1038.6
57.5°	301.9	332.1	308.0	362.3	386.5	495.1	531.4	646.1	688.4	851.4
60°	42.3	48.3	78.5	253.6	271.7	326.1	410.6	513.3	555.5	694.4
62.5°	6.0	6.0	18.1	42.3	181.2	217.4	308.0	356.3	410.6	519.3
65°	0.0	0.0	6.0	12.1	36.2	126.8	157.0	193.2	283.8	374.4
67.5°	0.0	0.0	6.0	12.1	18.1	42.3	66.4	126.8	163.0	259.7
70°	0.0	0.0	6.0	12.1	18.1	24.2	36.2	48.3	96.6	151.0
72.5°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	36.2	42.3	96.6
75°	0.0	0.0	6.0	12.1	18.1	30.2	36.2	36.2	36.2	42.3
77.5°	0.0	0.0	6.0	12.1	24.2	36.2	42.3	36.2	30.2	30.2
80°	0.0	0.0	6.0	18.1	30.2	42.3	48.3	36.2	24.2	18.1
82.5°	0.0	0.0	6.0	18.1	30.2	42.3	48.3	42.3	24.2	18.1
85°	0.0	0.0	6.0	18.1	24.2	30.2	48.3	42.3	24.2	12.1
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	24.2	18.1	12.1	6.0
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°
72950.0	0°	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0	72950.0
73137.2	2.5°	73680.7	73952.4	74429.4	74562.3	74972.9	74501.9	74242.2	74266.4	73704.8
72956.0	5°	73680.7	74302.6	75135.9	75534.4	75836.4	75812.2	75745.8	75576.7	75166.1
72593.7	7.5°	73487.4	74501.9	75649.2	76180.6	76542.9	76512.7	76663.6	76391.9	75890.7
71947.6	10°	72865.5	73747.1	75160.1	75594.8	76180.6	76192.6	76005.4	76059.8	75166.1
69586.6	12.5°	70909.0	71597.4	72835.3	73330.4	74043.0	74157.7	73952.4	73873.9	73028.5
65716.0	15°	67122.9	67521.5	68765.4	69260.5	69967.0	69870.4	70075.7	69991.2	69248.5
60486.7	17.5°	61585.7	61712.5	63016.8	63433.5	64097.7	64357.4	64049.4	64441.9	63801.8
53270.8	20°	53645.2	54327.6	55794.9	56435.0	56821.4	57286.4	56881.8	57322.6	56573.8
44515.1	22.5°	45590.0	45994.6	47323.0	48246.9	48965.5	49056.0	48905.1	49213.0	48204.6
36798.1	25°	36792.0	37462.3	38513.0	39720.6	40427.1	40861.9	40469.4	40668.7	40505.6
28537.5	27.5°	29020.6	29618.4	30409.4	31309.1	32371.9	32939.5	32625.5	32963.7	32166.6
21279.4	30°	21297.5	21599.4	22493.1	23447.1	24612.6	25300.9	25331.1	25675.3	25204.3
14908.8	32.5°	15017.5	15283.2	15832.7	16466.7	17577.8	18344.7	18223.9	18272.2	17982.4
9715.8	35°	9764.1	10120.4	10512.9	10814.8	11485.1	12330.4	12264.0	12203.6	12004.4
6388.6	37.5°	6527.5	6666.4	6883.8	7155.5	7590.3	8121.7	8296.8	8079.4	7994.9
4311.4	40°	4414.1	4655.6	4800.5	5005.8	5211.1	5658.0	5778.8	5736.5	5652.0
3019.2	42.5°	3133.9	3321.1	3502.3	3701.5	3810.2	4088.0	4323.5	4257.1	4220.8
2294.6	45°	2379.1	2548.2	2759.6	2910.5	3019.2	3182.2	3405.7	3429.8	3375.5
1841.7	47.5°	1908.1	2059.1	2228.2	2415.4	2542.2	2644.8	2838.1	2910.5	2874.3
1551.9	50°	1618.3	1733.0	1896.1	2083.3	2222.1	2312.7	2481.8	2560.3	2536.1
1298.3	52.5°	1376.8	1515.6	1666.6	1823.6	1992.7	2083.3	2240.2	2355.0	2336.9
1074.8	55°	1141.3	1322.4	1479.4	1636.4	1829.6	1920.2	2059.1	2210.1	2179.9
911.8	57.5°	996.3	1147.3	1310.3	1461.3	1666.6	1787.4	1914.2	2071.2	2065.1
748.8	60°	833.3	984.3	1165.4	1292.2	1509.6	1678.7	1793.4	1956.4	1968.5
567.6	62.5°	664.2	851.4	990.3	1165.4	1364.7	1563.9	1672.6	1835.7	1896.1
434.8	65°	495.1	700.5	857.5	1032.6	1219.8	1443.2	1539.8	1702.8	1763.2
314.0	67.5°	368.3	525.3	724.6	875.6	1086.9	1280.1	1394.9	1545.8	1588.1
187.2	70°	277.8	404.6	603.8	736.7	954.1	1111.1	1225.8	1340.5	1394.9
126.8	72.5°	163.0	301.9	477.0	634.0	821.2	954.1	1038.6	1129.2	1165.4
60.4	75°	114.7	229.5	374.4	525.3	664.2	772.9	851.4	929.9	966.1
30.2	77.5°	60.4	169.1	295.9	422.7	519.3	609.9	688.4	748.8	772.9
24.2	80°	36.2	120.8	241.5	332.1	398.5	477.0	555.5	597.8	591.8
18.1	82.5°	24.2	96.6	175.1	241.5	289.8	350.2	404.6	434.8	434.8
12.1	85°	18.1	66.4	120.8	187.2	193.2	241.5	253.6	283.8	289.8
12.1	87.5°	12.1	42.3	66.4	108.7	102.7	126.8	132.8	151.0	163.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
72950.0
73251.9
75299.0
76005.4
74906.5
72835.3
69484.0
63644.8
56513.5
48065.7
40403.0
32371.9
25288.9
18145.4
11829.2
7976.7
5664.0
4190.7
3369.4
2856.2
2530.1
2324.8
2179.9
2059.1
1968.5
1890.0
1757.2
1588.1
1382.8
1153.3
954.1
766.9
585.7
428.7
283.8
157.0
0.0

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