

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: P638690

Luminaire Tested: **EPH-VN-03-E-750-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638690
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-750-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25917.4 lumens
Efficiency: N/A
Efficacy: 111.7 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

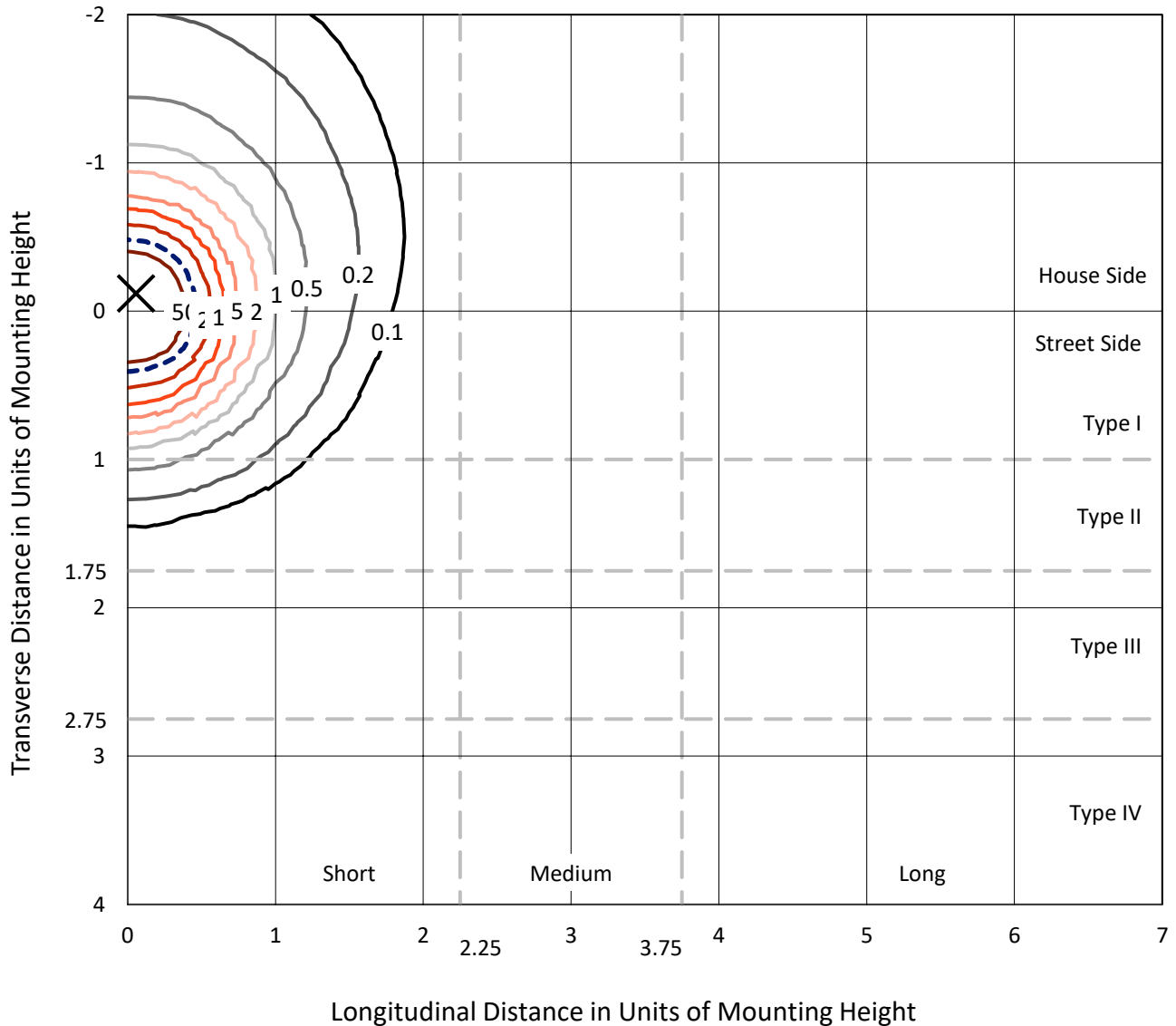
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638690
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Iso-Footcandle Lines of Horizontal Illumination

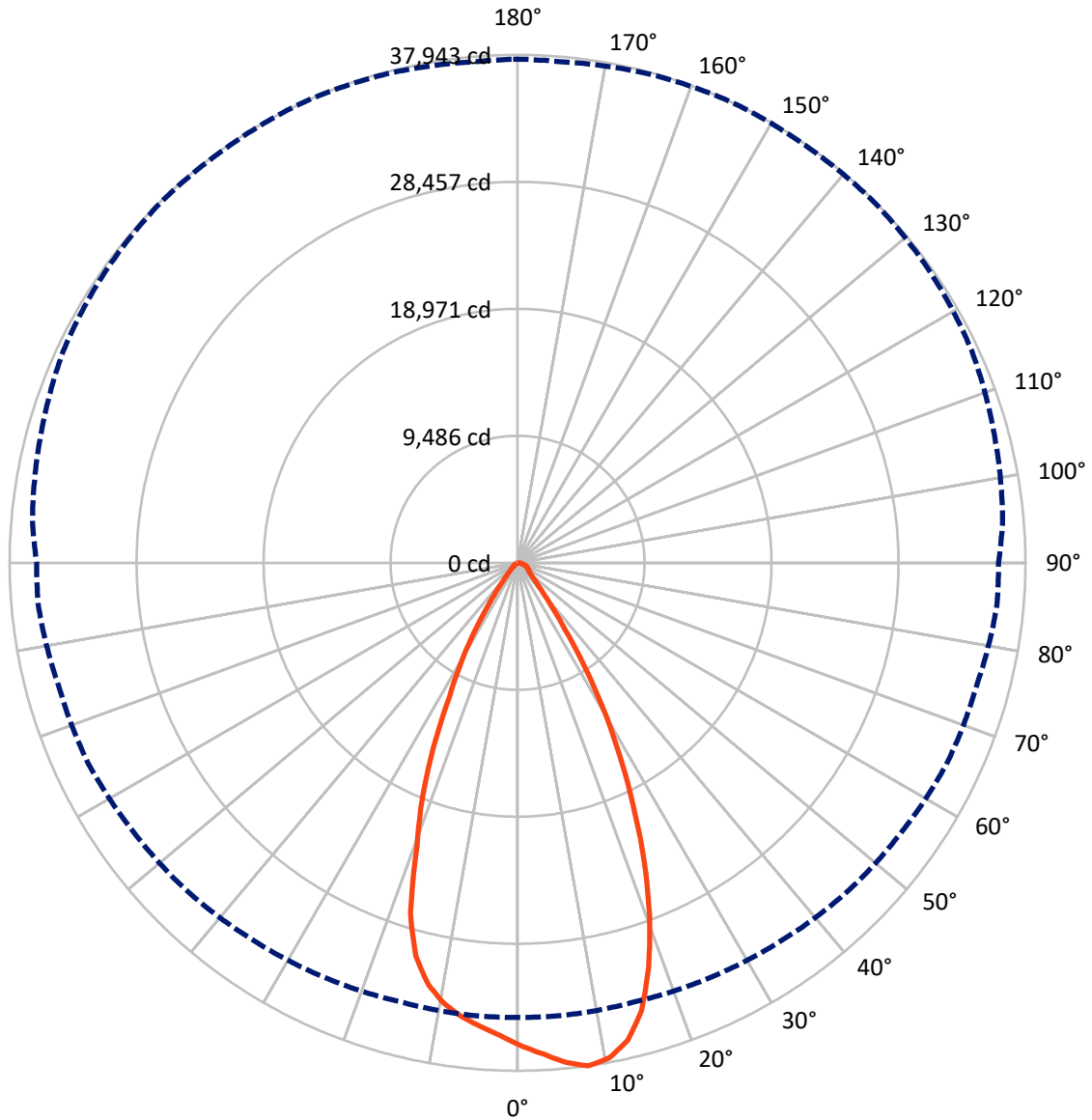
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 91.8 fc
 Type I - Short - N/A

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CATALOG NUMBER: EPH-VN-03-E-750-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	14307.4	0.0	14307.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11610.1	0.0	11610.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	25917.4	0.0	25917.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3442.8	13.3
10°-20°	8927.3	34.4
20°-30°	8179.9	31.6
30°-40°	3304.7	12.8
40°-50°	969.4	3.7
50°-60°	542.0	2.1
60°-70°	329.2	1.3
70°-80°	167.3	0.6
80°-90°	54.7	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°	25917.4	100.0
0°-180°	25917.4	100.0

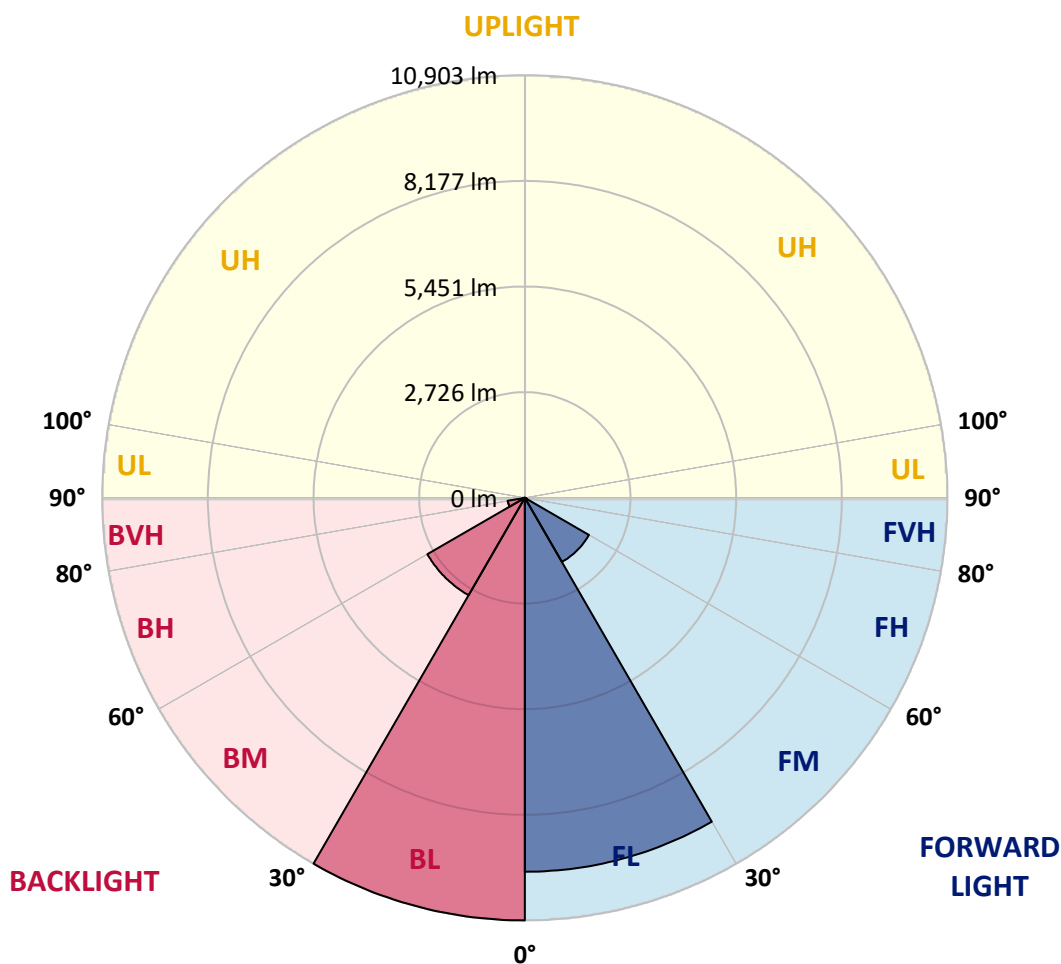


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9647.1	37.2			
FM (30°-60°)	1911.9	7.4			
FH (60°-80°)	46.3	0.2			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	10902.9	42.1	B5		
BM (30°-60°)	2904.3	11.2	B3/5000		
BH (60°-80°)	450.2	1.7	B1/500		G1/500
BVH (80°-90°)	50.0	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°	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0
2.5°	35321.9	35441.5	35202.4	35360.8	35483.3	35776.2	35800.1	35901.7	35937.6	36203.6
5°	34652.5	34745.2	34550.9	34763.1	34936.4	35196.4	35396.7	35677.6	35833.0	36146.8
7.5°	33956.2	33977.1	33938.2	34162.4	34422.4	34781.0	35029.1	35396.7	35492.3	35940.6
10°	33113.4	32961.0	33035.7	33364.4	33752.9	34302.8	34473.2	34840.8	35011.1	35468.4
12.5°	31768.5	31846.2	31753.6	32172.0	32494.8	33119.4	33298.7	33669.3	33995.0	34398.5
15°	29873.8	29829.0	30017.2	30343.0	30692.6	31188.8	31478.6	31882.1	32130.2	32548.6
17.5°	25615.1	25767.5	26544.5	27360.4	28077.6	28657.4	29004.1	29338.8	29518.1	29972.4
20°	22121.4	21930.2	22034.8	22495.0	24536.2	25423.8	25788.4	25869.1	25943.8	26302.4
22.5°	18215.4	18152.6	18502.3	19019.3	19503.4	21550.6	22046.7	21858.4	22013.8	22351.5
25°	13526.3	13843.1	14153.9	15146.1	15773.7	16777.9	17719.3	17802.9	17859.7	18071.9
27.5°	11009.9	10899.3	10893.3	11171.3	12097.7	12934.5	13735.5	13920.8	13887.9	14091.1
30°	8654.9	8619.0	8493.5	8559.3	8466.6	9210.8	9587.3	10349.4	10307.6	10313.6
32.5°	6243.1	6108.6	6057.8	6156.5	6060.8	5992.1	6320.8	7181.5	7166.6	7226.4
35°	3777.6	3759.6	3801.5	3888.1	3696.9	3690.9	3759.6	4569.5	4668.2	4763.8
37.5°	2086.0	2068.1	2101.0	2420.7	2358.0	2301.2	2319.1	2746.5	3030.4	3102.1
40°	1374.7	1371.8	1395.7	1452.4	1560.0	1539.1	1548.1	1739.3	2008.3	2071.1
42.5°	920.5	923.5	938.4	1004.2	1019.1	1126.7	1108.8	1153.6	1404.6	1458.4
45°	735.2	732.2	741.2	711.3	729.2	839.8	851.7	854.7	1069.9	1102.8
47.5°	579.8	579.8	588.7	549.9	540.9	609.7	672.4	681.4	854.7	899.6
50°	406.4	406.4	451.3	433.3	454.3	475.2	543.9	552.9	699.3	747.1
52.5°	298.9	304.8	310.8	313.8	382.5	379.5	439.3	481.2	529.0	612.7
55°	227.1	233.1	218.2	233.1	283.9	316.8	328.7	388.5	421.4	514.0
57.5°	149.4	164.4	152.4	179.3	191.3	245.1	263.0	319.8	340.7	421.4
60°	20.9	23.9	38.9	125.5	134.5	161.4	203.2	254.0	274.9	343.7
62.5°	3.0	3.0	9.0	20.9	89.7	107.6	152.4	176.3	203.2	257.0
65°	0.0	0.0	3.0	6.0	17.9	62.8	77.7	95.6	140.5	185.3
67.5°	0.0	0.0	3.0	6.0	9.0	20.9	32.9	62.8	80.7	128.5
70°	0.0	0.0	3.0	6.0	9.0	12.0	17.9	23.9	47.8	74.7
72.5°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	17.9	20.9	47.8
75°	0.0	0.0	3.0	6.0	9.0	14.9	17.9	17.9	17.9	20.9
77.5°	0.0	0.0	3.0	6.0	12.0	17.9	20.9	17.9	14.9	14.9
80°	0.0	0.0	3.0	9.0	14.9	20.9	23.9	17.9	12.0	9.0
82.5°	0.0	0.0	3.0	9.0	14.9	20.9	23.9	20.9	12.0	9.0
85°	0.0	0.0	3.0	9.0	12.0	14.9	23.9	20.9	12.0	6.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.0	12.0	9.0	6.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638690

CATALOG NUMBER: EPH-VN-03-E-750-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
36105.0	0°	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0	36105.0
36197.6	2.5°	36466.6	36601.1	36837.2	36902.9	37106.1	36873.0	36744.5	36756.5	36478.5
36107.9	5°	36466.6	36774.4	37186.8	37384.1	37533.5	37521.5	37488.7	37405.0	37201.8
35928.6	7.5°	36370.9	36873.0	37440.8	37703.8	37883.2	37868.2	37942.9	37808.4	37560.4
35608.9	10°	36063.1	36499.4	37198.8	37413.9	37703.8	37709.8	37617.2	37644.1	37201.8
34440.3	12.5°	35094.8	35435.5	36048.2	36293.2	36645.9	36702.7	36601.1	36562.2	36143.8
32524.6	15°	33221.0	33418.2	34033.9	34278.9	34628.6	34580.8	34682.4	34640.6	34273.0
29936.5	17.5°	30480.5	30543.2	31188.8	31395.0	31723.7	31852.2	31699.8	31894.1	31577.3
26365.2	20°	26550.5	26888.2	27614.4	27931.2	28122.5	28352.6	28152.4	28370.5	27999.9
22031.8	22.5°	22563.7	22764.0	23421.4	23878.7	24234.3	24279.2	24204.5	24356.9	23857.8
18212.4	25°	18209.4	18541.1	19061.1	19658.8	20008.5	20223.7	20029.4	20128.0	20047.4
14124.0	27.5°	14363.1	14659.0	15050.5	15495.8	16021.7	16302.7	16147.3	16314.6	15920.1
10531.7	30°	10540.7	10690.1	11132.4	11604.6	12181.4	12522.1	12537.1	12707.4	12474.3
7378.8	32.5°	7432.6	7564.1	7836.0	8149.8	8699.7	9079.3	9019.5	9043.4	8900.0
4808.6	35°	4832.5	5008.8	5203.1	5352.5	5684.3	6102.7	6069.8	6039.9	5941.3
3161.9	37.5°	3230.6	3299.4	3407.0	3541.5	3756.6	4019.6	4106.3	3998.7	3956.9
2133.8	40°	2184.6	2304.2	2375.9	2477.5	2579.1	2800.3	2860.1	2839.1	2797.3
1494.3	42.5°	1551.1	1643.7	1733.4	1832.0	1885.8	2023.3	2139.8	2106.9	2089.0
1135.7	45°	1177.5	1261.2	1365.8	1440.5	1494.3	1575.0	1685.6	1697.5	1670.6
911.5	47.5°	944.4	1019.1	1102.8	1195.4	1258.2	1309.0	1404.6	1440.5	1422.6
768.1	50°	800.9	857.7	938.4	1031.1	1099.8	1144.6	1228.3	1267.2	1255.2
642.5	52.5°	681.4	750.1	824.8	902.5	986.2	1031.1	1108.8	1165.5	1156.6
532.0	55°	564.8	654.5	732.2	809.9	905.5	950.4	1019.1	1093.8	1078.9
451.3	57.5°	493.1	567.8	648.5	723.2	824.8	884.6	947.4	1025.1	1022.1
370.6	60°	412.4	487.1	576.8	639.6	747.1	830.8	887.6	968.3	974.3
280.9	62.5°	328.7	421.4	490.1	576.8	675.4	774.0	827.8	908.5	938.4
215.2	65°	245.1	346.7	424.4	511.0	603.7	714.3	762.1	842.8	872.7
155.4	67.5°	182.3	260.0	358.6	433.3	537.9	633.6	690.4	765.1	786.0
92.6	70°	137.5	200.2	298.9	364.6	472.2	549.9	606.7	663.5	690.4
62.8	72.5°	80.7	149.4	236.1	313.8	406.4	472.2	514.0	558.9	576.8
29.9	75°	56.8	113.6	185.3	260.0	328.7	382.5	421.4	460.2	478.2
14.9	77.5°	29.9	83.7	146.4	209.2	257.0	301.8	340.7	370.6	382.5
12.0	80°	17.9	59.8	119.5	164.4	197.2	236.1	274.9	295.9	292.9
9.0	82.5°	12.0	47.8	86.7	119.5	143.5	173.3	200.2	215.2	215.2
6.0	85°	9.0	32.9	59.8	92.6	95.6	119.5	125.5	140.5	143.5
6.0	87.5°	6.0	20.9	32.9	53.8	50.8	62.8	65.7	74.7	80.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
36105.0
36254.4
37267.5
37617.2
37073.3
36048.2
34389.5
31499.6
27970.1
23789.0
19996.5
16021.7
12516.1
8980.7
5854.6
3947.9
2803.3
2074.1
1667.6
1413.6
1252.2
1150.6
1078.9
1019.1
974.3
935.4
869.7
786.0
684.4
570.8
472.2
379.5
289.9
212.2
140.5
77.7
0.0

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