

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: P638718

Luminaire Tested: **EPH-VN-08-D-940-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638718
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-940-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37839.7 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

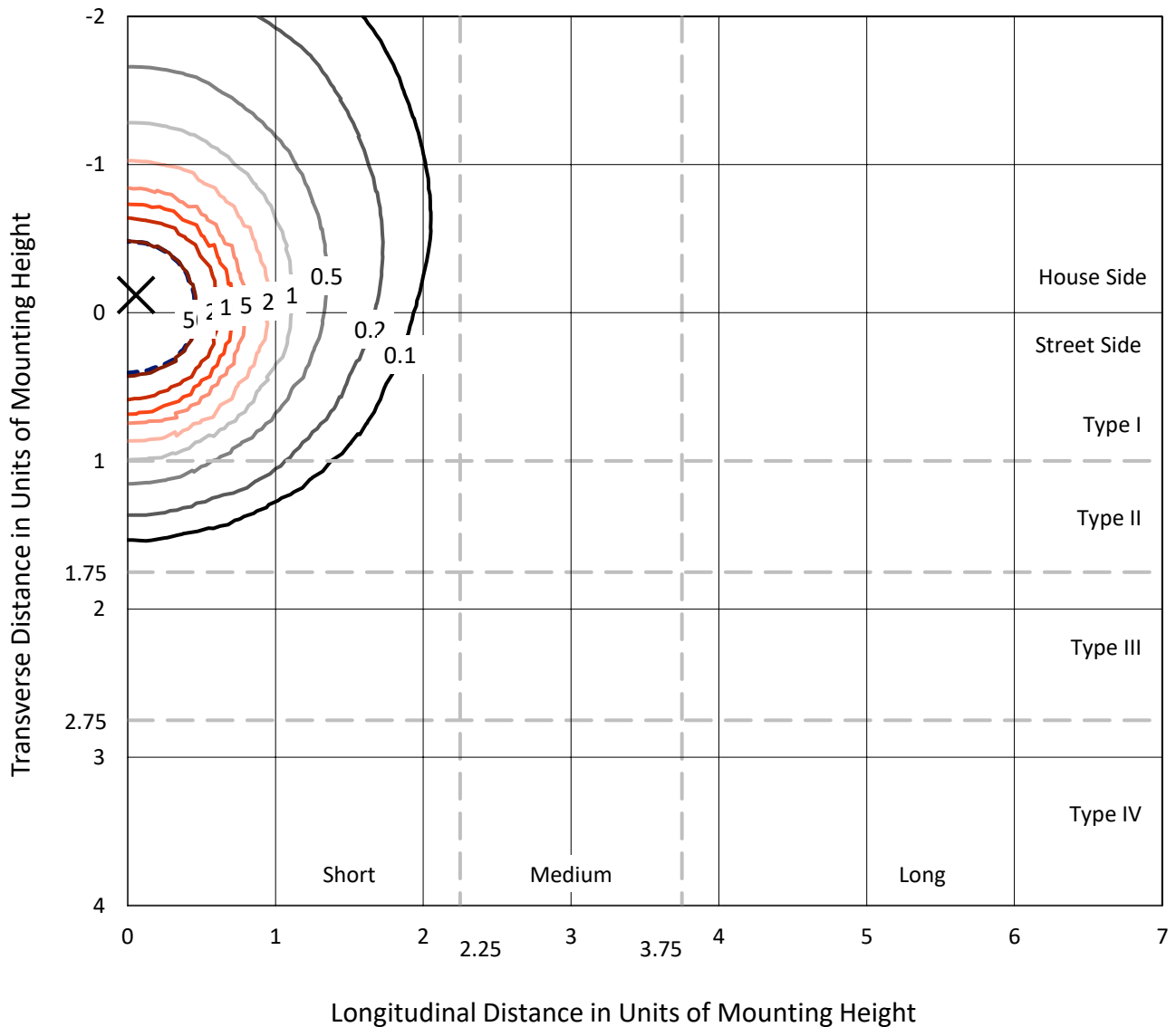
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

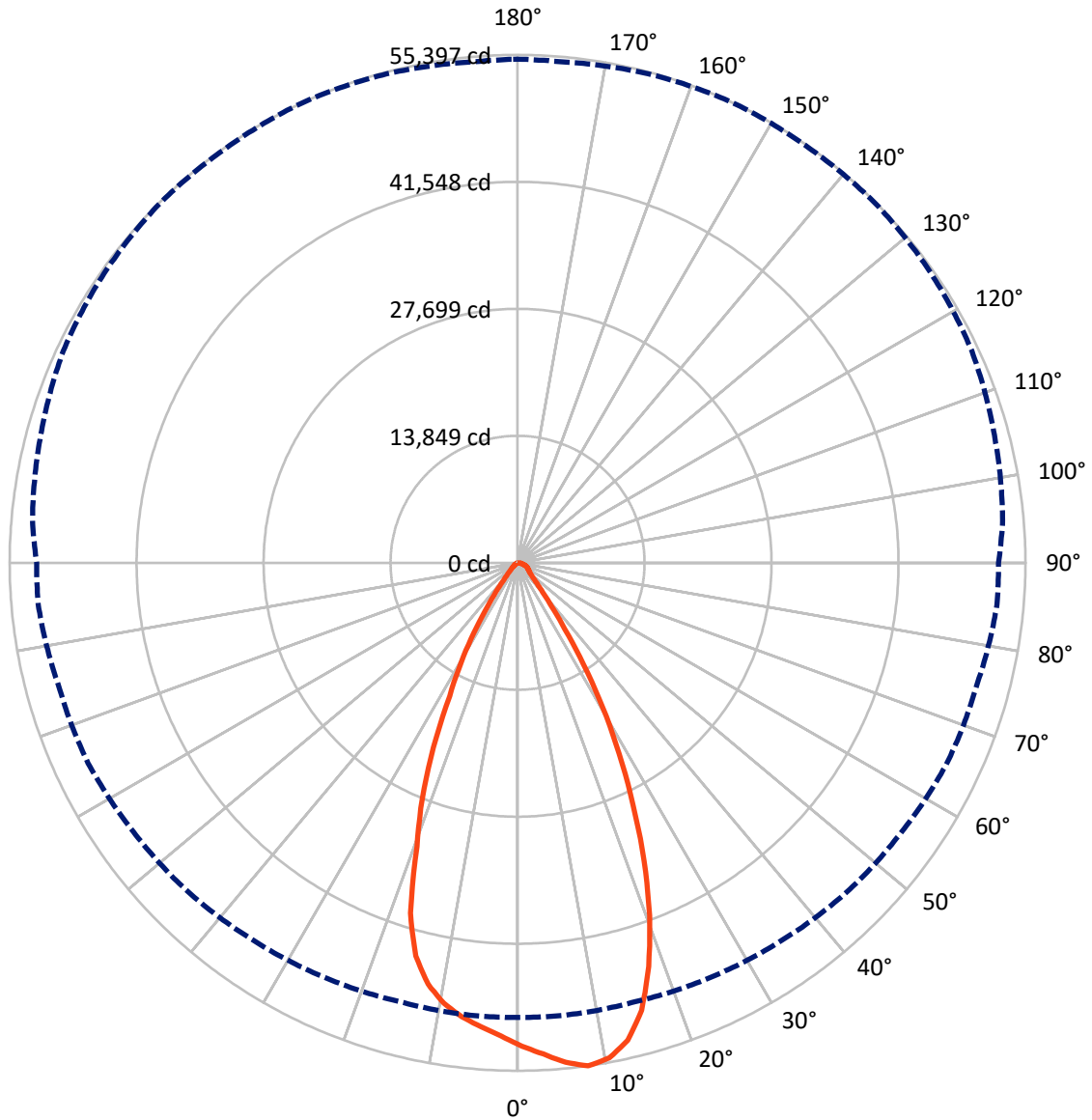
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 134 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	20888.9	0.0	20888.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16950.8	0.0	16950.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	37839.7	0.0	37839.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5026.6	13.3
10°-20°	13034.0	34.4
20°-30°	11942.8	31.6
30°-40°	4824.9	12.8
40°-50°	1415.4	3.7
50°-60°	791.4	2.1
60°-70°	480.7	1.3
70°-80°	244.2	0.6
80°-90°	79.9	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°	37839.7	100.0
0°-180°	37839.7	100.0

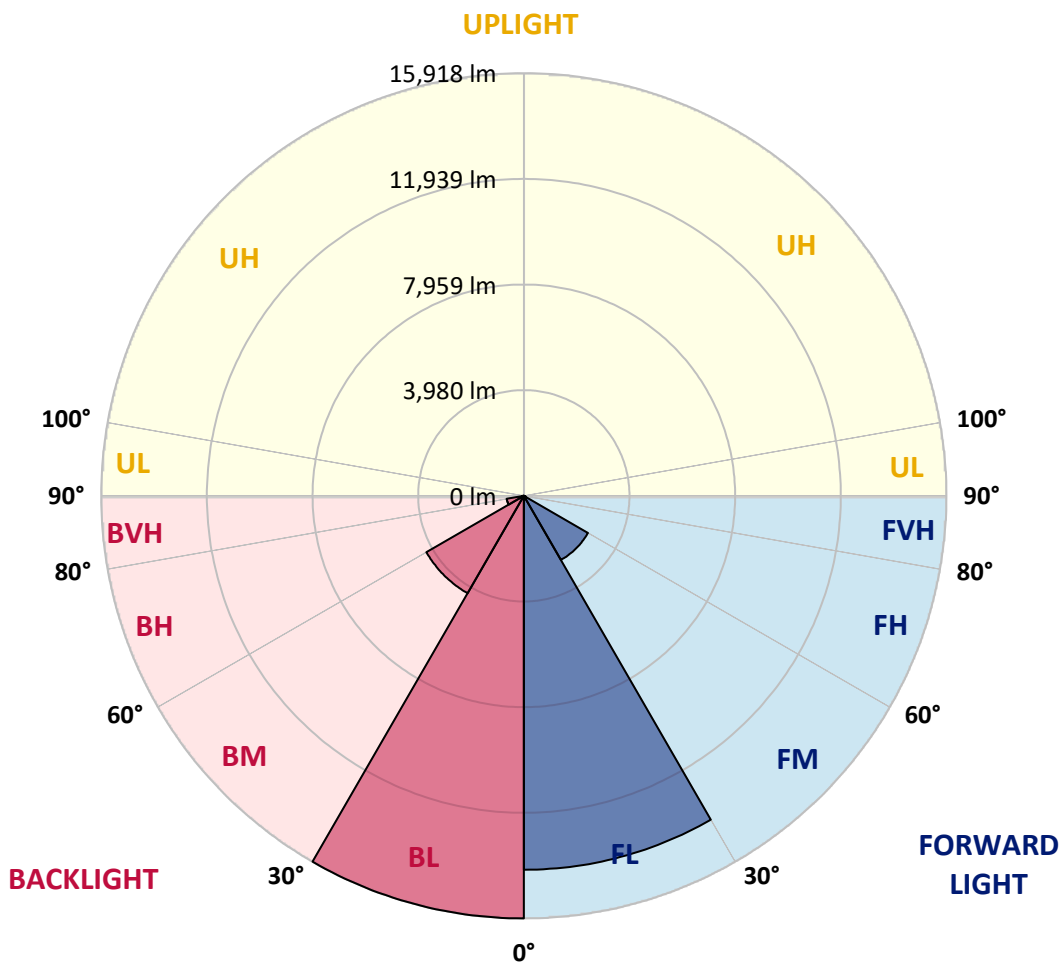


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14084.9	37.2			
FM (30°-60°)	2791.4	7.4			
FH (60°-80°)	67.6	0.2			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	15918.4	42.1	B5		
BM (30°-60°)	4240.3	11.2	B3/5000		
BH (60°-80°)	657.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	73.0	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7
2.5°	51570.5	51745.0	51395.9	51627.2	51806.1	52233.7	52268.6	52417.0	52469.3	52857.7
5°	50593.1	50728.4	50444.7	50754.5	51007.6	51387.2	51679.6	52089.7	52316.6	52774.8
7.5°	49576.4	49607.0	49550.2	49877.5	50257.1	50780.7	51142.9	51679.6	51819.2	52473.7
10°	48346.0	48123.4	48232.5	48712.5	49279.7	50082.6	50331.3	50868.0	51116.7	51784.3
12.5°	46382.5	46495.9	46360.6	46971.5	47442.7	48354.7	48616.5	49157.5	49633.1	50222.2
15°	43616.1	43550.6	43825.5	44301.1	44811.6	45536.0	45959.2	46548.3	46910.4	47521.3
17.5°	37398.3	37620.8	38755.3	39946.5	40993.7	41840.2	42346.3	42835.0	43096.8	43760.1
20°	32297.5	32018.3	32171.0	32843.0	35823.1	37119.1	37651.4	37769.2	37878.3	38401.9
22.5°	26594.6	26503.0	27013.5	27768.4	28475.2	31464.1	32188.5	31913.6	32140.5	32633.5
25°	19748.5	20211.1	20664.8	22113.5	23029.8	24495.9	25870.3	25992.5	26075.4	26385.2
27.5°	16074.6	15913.2	15904.4	16310.2	17662.9	18884.6	20054.0	20324.5	20276.5	20573.2
30°	12636.3	12583.9	12400.7	12496.6	12361.4	13447.9	13997.6	15110.3	15049.2	15057.9
32.5°	9115.0	8918.7	8844.5	8988.5	8848.9	8748.5	9228.5	10485.1	10463.3	10550.6
35°	5515.3	5489.1	5550.2	5676.7	5397.5	5388.7	5489.1	6671.6	6815.6	6955.2
37.5°	3045.6	3019.4	3067.4	3534.3	3442.7	3359.8	3386.0	4009.9	4424.4	4529.2
40°	2007.1	2002.8	2037.7	2120.6	2277.7	2247.1	2260.2	2539.5	2932.2	3023.8
42.5°	1343.9	1348.3	1370.1	1466.1	1487.9	1645.0	1618.8	1684.3	2050.8	2129.3
45°	1073.4	1069.0	1082.1	1038.5	1064.7	1226.1	1243.6	1247.9	1562.1	1610.1
47.5°	846.5	846.5	859.6	802.9	789.8	890.1	981.8	994.8	1247.9	1313.4
50°	593.4	593.4	658.9	632.7	663.2	693.8	794.1	807.2	1021.0	1090.8
52.5°	436.3	445.1	453.8	458.2	558.5	554.1	641.4	702.5	772.3	894.5
55°	331.6	340.3	318.5	340.3	414.5	462.5	480.0	567.2	615.2	750.5
57.5°	218.2	240.0	222.5	261.8	279.3	357.8	384.0	466.9	497.4	615.2
60°	30.5	34.9	56.7	183.3	196.4	235.6	296.7	370.9	401.4	501.8
62.5°	4.4	4.4	13.1	30.5	130.9	157.1	222.5	257.4	296.7	375.2
65°	0.0	0.0	4.4	8.7	26.2	91.6	113.4	139.6	205.1	270.5
67.5°	0.0	0.0	4.4	8.7	13.1	30.5	48.0	91.6	117.8	187.6
70°	0.0	0.0	4.4	8.7	13.1	17.5	26.2	34.9	69.8	109.1
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	26.2	30.5	69.8
75°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	26.2	26.2	30.5
77.5°	0.0	0.0	4.4	8.7	17.5	26.2	30.5	26.2	21.8	21.8
80°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	26.2	17.5	13.1
82.5°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	30.5	17.5	13.1
85°	0.0	0.0	4.4	13.1	17.5	21.8	34.9	30.5	17.5	8.7
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	17.5	13.1	8.7	4.4
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°
52713.7	0°	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7	52713.7
52848.9	2.5°	53241.6	53438.0	53782.7	53878.7	54175.4	53835.1	53647.4	53664.9	53259.1
52718.0	5°	53241.6	53691.1	54293.2	54581.2	54799.4	54781.9	54733.9	54611.7	54315.0
52456.2	7.5°	53102.0	53835.1	54664.1	55048.1	55309.9	55288.1	55397.1	55200.8	54838.6
51989.4	10°	52652.6	53289.6	54310.7	54624.8	55048.1	55056.8	54921.5	54960.8	54315.0
50283.3	12.5°	51238.9	51736.3	52630.8	52988.6	53503.4	53586.3	53438.0	53381.3	52770.4
47486.4	15°	48503.0	48791.0	49689.9	50047.7	50558.2	50488.4	50636.7	50575.6	50038.9
43707.7	17.5°	44501.8	44593.5	45536.0	45837.0	46317.0	46504.6	46282.1	46565.7	46103.2
38493.5	20°	38764.0	39257.1	40317.4	40779.9	41059.2	41395.1	41102.8	41421.3	40880.3
32166.6	22.5°	32943.3	33235.7	34195.6	34863.2	35382.4	35447.9	35338.8	35561.3	34832.7
26590.3	25°	26585.9	27070.2	27829.5	28702.1	29212.7	29526.8	29243.2	29387.2	29269.4
20621.2	27.5°	20970.3	21402.3	21973.8	22624.0	23391.9	23802.1	23575.2	23819.5	23243.6
15376.5	30°	15389.5	15607.7	16253.5	16942.9	17785.0	18282.5	18304.3	18553.0	18212.6
10773.1	32.5°	10851.7	11043.6	11440.7	11898.9	12701.7	13255.9	13168.6	13203.5	12994.1
7020.6	35°	7055.5	7313.0	7596.6	7814.8	8299.1	8910.0	8862.0	8818.3	8674.3
4616.4	37.5°	4716.8	4817.1	4974.2	5170.6	5484.7	5868.7	5995.2	5838.2	5777.1
3115.4	40°	3189.6	3364.1	3468.9	3617.2	3765.6	4088.5	4175.7	4145.2	4084.1
2181.7	42.5°	2264.6	2399.8	2530.7	2674.7	2753.3	2954.0	3124.2	3076.2	3050.0
1658.1	45°	1719.2	1841.3	1994.1	2103.1	2181.7	2299.5	2460.9	2478.4	2439.1
1330.8	47.5°	1378.8	1487.9	1610.1	1745.3	1837.0	1911.1	2050.8	2103.1	2077.0
1121.4	50°	1169.4	1252.3	1370.1	1505.4	1605.7	1671.2	1793.3	1850.1	1832.6
938.1	52.5°	994.8	1095.2	1204.3	1317.7	1439.9	1505.4	1618.8	1701.7	1688.6
776.7	55°	824.7	955.6	1069.0	1182.5	1322.1	1387.5	1487.9	1597.0	1575.2
658.9	57.5°	720.0	829.0	946.8	1055.9	1204.3	1291.6	1383.2	1496.6	1492.3
541.1	60°	602.1	711.2	842.1	933.8	1090.8	1213.0	1295.9	1413.7	1422.5
410.2	62.5°	480.0	615.2	715.6	842.1	986.1	1130.1	1208.6	1326.5	1370.1
314.2	65°	357.8	506.1	619.6	746.1	881.4	1042.8	1112.7	1230.5	1274.1
226.9	67.5°	266.2	379.6	523.6	632.7	785.4	925.0	1007.9	1117.0	1147.6
135.3	70°	200.7	292.3	436.3	532.3	689.4	802.9	885.8	968.7	1007.9
91.6	72.5°	117.8	218.2	344.7	458.2	593.4	689.4	750.5	815.9	842.1
43.6	75°	82.9	165.8	270.5	379.6	480.0	558.5	615.2	672.0	698.1
21.8	77.5°	43.6	122.2	213.8	305.4	375.2	440.7	497.4	541.1	558.5
17.5	80°	26.2	87.3	174.5	240.0	288.0	344.7	401.4	432.0	427.6
13.1	82.5°	17.5	69.8	126.5	174.5	209.4	253.1	292.3	314.2	314.2
8.7	85°	13.1	48.0	87.3	135.3	139.6	174.5	183.3	205.1	209.4
8.7	87.5°	8.7	30.5	48.0	78.5	74.2	91.6	96.0	109.1	117.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
52713.7
52931.8
54411.0
54921.5
54127.4
52630.8
50209.1
45989.7
40836.6
34732.3
29195.2
23391.9
18273.7
13111.9
8547.8
5764.0
4092.8
3028.2
2434.8
2063.9
1828.2
1679.9
1575.2
1487.9
1422.5
1365.7
1269.7
1147.6
999.2
833.4
689.4
554.1
423.2
309.8
205.1
113.4
0.0

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