

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: P638711

Luminaire Tested: **EPH-VN-07-E-935-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638711  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-935-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35210.1 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

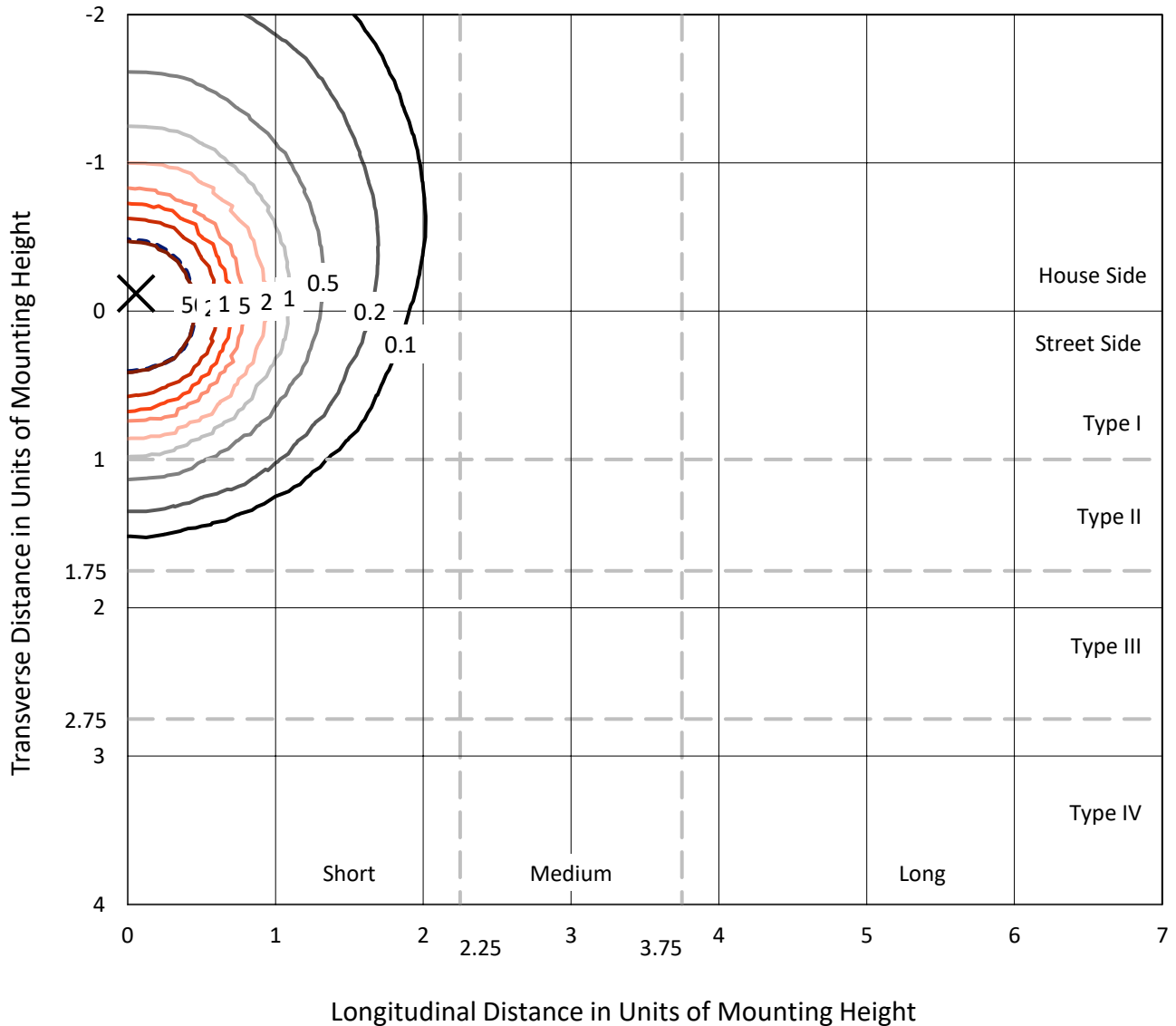
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638711  
 CATALOG NUMBER: EPH-VN-07-E-935-U-55-VI

### Iso-Footcandle Lines of Horizontal Illumination

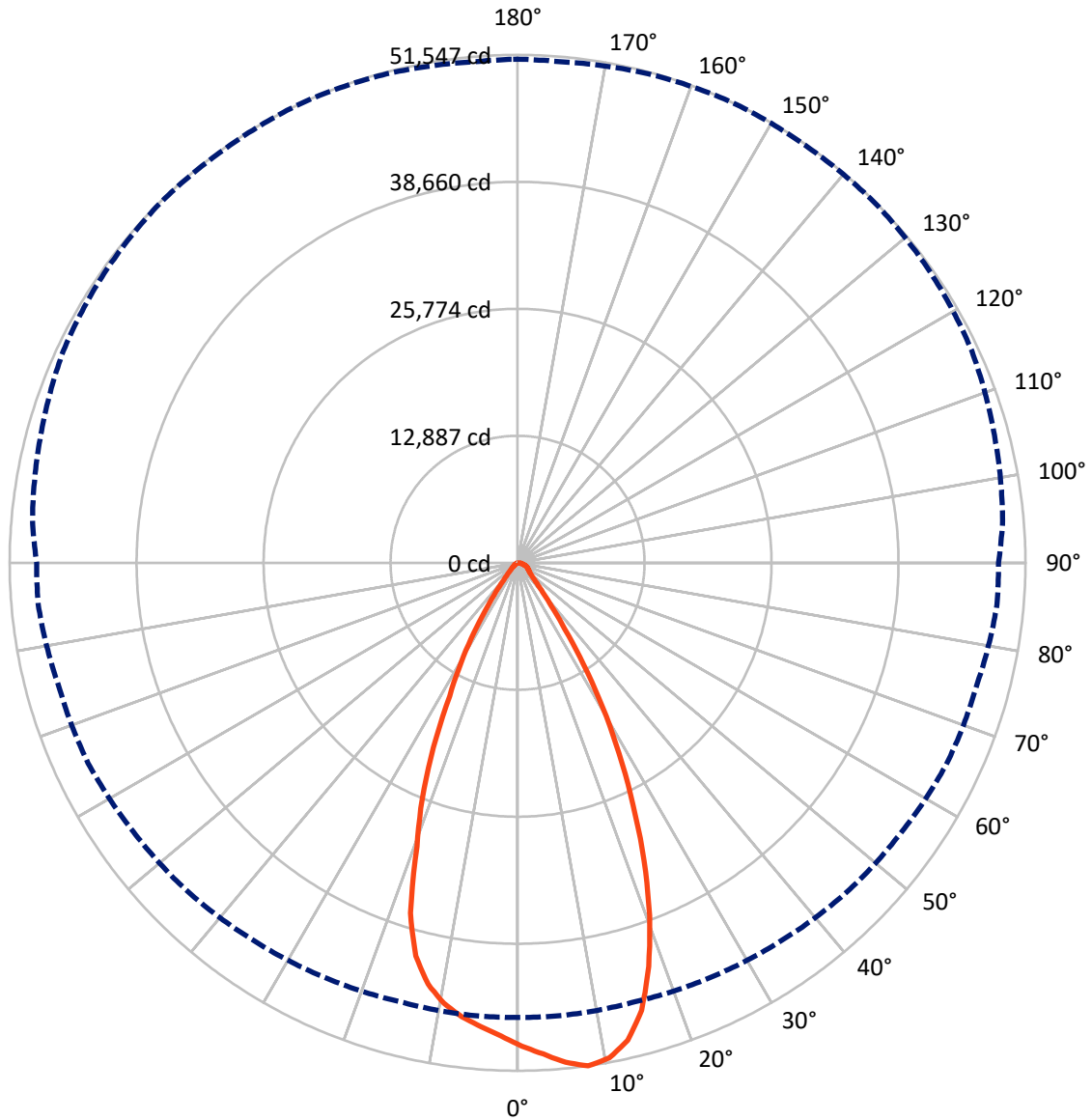
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 124.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P638711  
CATALOG NUMBER: EPH-VN-07-E-935-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
<b>House Side</b>	Lumens	19437.2	0.0	19437.2
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	15772.8	0.0	15772.8
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	35210.1	0.0	35210.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4677.3	13.3
10°-20°	12128.2	34.4
20°-30°	11112.8	31.6
30°-40°	4489.6	12.8
40°-50°	1317.0	3.7
50°-60°	736.4	2.1
60°-70°	447.3	1.3
70°-80°	227.3	0.6
80°-90°	74.3	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°	35210.1	100.0
0°-180°	35210.1	100.0



REPORT NUMBER: P638711

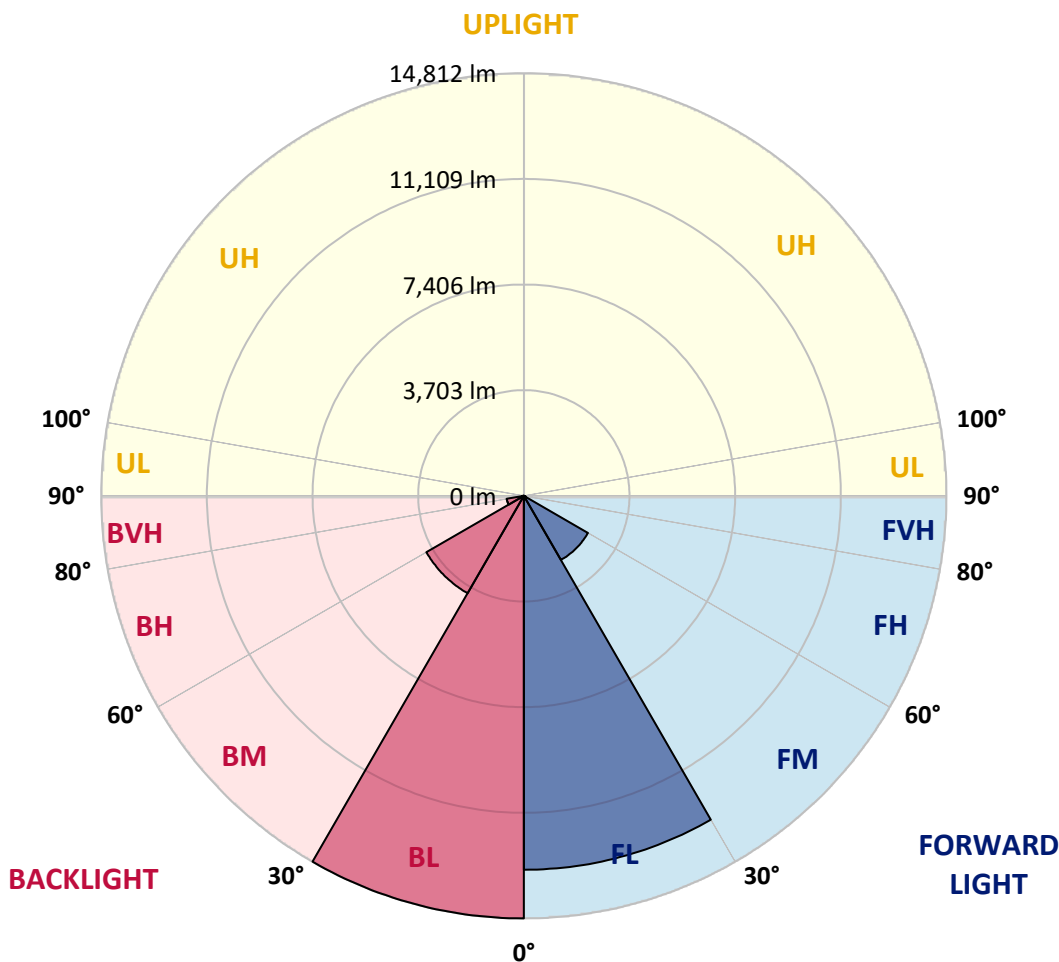
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13106.1	37.2			
FM (30°-60°)	2597.4	7.4			
FH (60°-80°)	62.9	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	14812.2	42.1	B5		
BM (30°-60°)	3945.6	11.2	B3/5000		
BH (60°-80°)	611.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	67.9	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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 CATALOG NUMBER: EPH-VN-07-E-935-U-55-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3
2.5°	47986.6	48149.0	47824.2	48039.4	48205.8	48603.7	48636.2	48774.2	48823.0	49184.3
5°	47077.1	47203.0	46939.1	47227.3	47462.8	47816.0	48088.1	48469.7	48680.9	49107.2
7.5°	46131.1	46159.5	46106.7	46411.2	46764.5	47251.7	47588.7	48088.1	48218.0	48827.0
10°	44986.1	44779.1	44880.6	45327.2	45855.0	46602.1	46833.5	47332.9	47564.3	48185.5
12.5°	43159.1	43264.7	43138.8	43707.2	44145.7	44994.3	45237.9	45741.3	46183.9	46732.0
15°	40585.0	40524.1	40779.9	41222.4	41697.4	42371.4	42765.3	43313.4	43650.4	44218.8
17.5°	34799.3	35006.4	36062.0	37170.4	38144.8	38932.5	39403.5	39858.2	40101.8	40719.0
20°	30053.0	29793.2	29935.3	30560.5	33333.6	34539.5	35034.8	35144.4	35245.9	35733.1
22.5°	24746.4	24661.2	25136.2	25838.6	26496.4	29277.5	29951.5	29695.7	29906.9	30365.6
25°	18376.1	18806.5	19228.7	20576.7	21429.3	22793.5	24072.5	24186.1	24263.3	24551.6
27.5°	14957.5	14807.3	14799.1	15176.7	16435.4	17572.2	18660.3	18912.0	18867.4	19143.5
30°	11758.1	11709.4	11538.9	11628.2	11502.3	12513.3	13024.9	14060.2	14003.4	14011.5
32.5°	8481.6	8298.9	8229.9	8363.8	8233.9	8140.5	8587.2	9756.5	9736.2	9817.4
35°	5132.0	5107.6	5164.5	5282.2	5022.4	5014.2	5107.6	6207.9	6341.9	6471.8
37.5°	2834.0	2809.6	2854.3	3288.7	3203.4	3126.3	3150.7	3731.3	4117.0	4214.4
40°	1867.7	1863.6	1896.1	1973.2	2119.4	2091.0	2103.1	2363.0	2728.4	2813.7
42.5°	1250.5	1254.6	1274.9	1364.2	1384.5	1530.7	1506.3	1567.2	1908.3	1981.3
45°	998.8	994.7	1006.9	966.3	990.7	1140.9	1157.1	1161.2	1453.5	1498.2
47.5°	787.7	787.7	799.8	747.1	734.9	828.3	913.5	925.7	1161.2	1222.1
50°	552.2	552.2	613.1	588.7	617.1	645.6	738.9	751.1	950.1	1015.0
52.5°	406.0	414.1	422.3	426.3	519.7	515.6	596.8	653.7	718.6	832.3
55°	308.6	316.7	296.4	316.7	385.7	430.4	446.6	527.8	572.5	698.3
57.5°	203.0	223.3	207.1	243.6	259.8	332.9	357.3	434.4	462.9	572.5
60°	28.4	32.5	52.8	170.5	182.7	219.2	276.1	345.1	373.5	466.9
62.5°	4.1	4.1	12.2	28.4	121.8	146.2	207.1	239.5	276.1	349.2
65°	0.0	0.0	4.1	8.1	24.4	85.3	105.6	129.9	190.8	251.7
67.5°	0.0	0.0	4.1	8.1	12.2	28.4	44.7	85.3	109.6	174.6
70°	0.0	0.0	4.1	8.1	12.2	16.2	24.4	32.5	65.0	101.5
72.5°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	24.4	28.4	65.0
75°	0.0	0.0	4.1	8.1	12.2	20.3	24.4	24.4	24.4	28.4
77.5°	0.0	0.0	4.1	8.1	16.2	24.4	28.4	24.4	20.3	20.3
80°	0.0	0.0	4.1	12.2	20.3	28.4	32.5	24.4	16.2	12.2
82.5°	0.0	0.0	4.1	12.2	20.3	28.4	32.5	28.4	16.2	12.2
85°	0.0	0.0	4.1	12.2	16.2	20.3	32.5	28.4	16.2	8.1
87.5°	0.0	0.0	0.0	4.1	4.1	8.1	16.2	12.2	8.1	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: P638711

CATALOG NUMBER: EPH-VN-07-E-935-U-55-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
49050.3	0°	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3	49050.3
49176.2	2.5°	49541.6	49724.3	50045.1	50134.4	50410.5	50093.8	49919.2	49935.4	49557.8
49054.4	5°	49541.6	49959.8	50520.1	50788.1	50991.1	50974.8	50930.2	50816.5	50540.4
48810.8	7.5°	49411.7	50093.8	50865.2	51222.5	51466.1	51445.8	51547.3	51364.6	51027.6
48376.3	10°	48993.5	49586.3	50536.3	50828.7	51222.5	51230.6	51104.7	51141.3	50540.4
46788.8	12.5°	47678.0	48140.9	48973.2	49306.1	49785.2	49862.3	49724.3	49671.5	49103.1
44186.3	15°	45132.3	45400.3	46236.7	46569.6	47044.6	46979.7	47117.7	47060.9	46561.5
40670.2	17.5°	41409.2	41494.4	42371.4	42651.6	43098.2	43272.8	43065.7	43329.6	42899.2
35818.4	20°	36070.1	36528.9	37515.5	37945.9	38205.7	38518.4	38246.3	38542.7	38039.3
29931.2	22.5°	30653.9	30925.9	31819.2	32440.4	32923.5	32984.4	32882.9	33090.0	32411.9
24742.4	25°	24738.3	25189.0	25895.5	26707.5	27182.5	27474.8	27210.9	27344.9	27235.3
19188.1	27.5°	19512.9	19914.9	20446.8	21051.7	21766.3	22148.0	21936.8	22164.2	21628.3
14307.9	30°	14320.0	14523.1	15124.0	15765.5	16549.1	17011.9	17032.2	17263.6	16946.9
10024.4	32.5°	10097.5	10276.2	10645.6	11072.0	11819.0	12334.6	12253.4	12285.9	12091.0
6532.7	35°	6565.2	6804.8	7068.7	7271.7	7722.4	8290.8	8246.1	8205.5	8071.5
4295.6	37.5°	4389.0	4482.4	4628.5	4811.2	5103.6	5460.9	5578.6	5432.4	5375.6
2898.9	40°	2967.9	3130.4	3227.8	3365.8	3503.9	3804.3	3885.5	3857.1	3800.3
2030.1	42.5°	2107.2	2233.1	2354.9	2488.9	2561.9	2748.7	2907.0	2862.4	2838.0
1542.8	45°	1599.7	1713.4	1855.5	1957.0	2030.1	2139.7	2289.9	2306.1	2269.6
1238.3	47.5°	1283.0	1384.5	1498.2	1624.0	1709.3	1778.3	1908.3	1957.0	1932.6
1043.5	50°	1088.1	1165.3	1274.9	1400.7	1494.1	1555.0	1668.7	1721.5	1705.3
872.9	52.5°	925.7	1019.1	1120.6	1226.2	1339.8	1400.7	1506.3	1583.4	1571.3
722.7	55°	767.4	889.2	994.7	1100.3	1230.2	1291.1	1384.5	1486.0	1465.7
613.1	57.5°	669.9	771.4	881.0	982.5	1120.6	1201.8	1287.1	1392.6	1388.6
503.5	60°	560.3	661.8	783.6	868.9	1015.0	1128.7	1205.9	1315.5	1323.6
381.7	62.5°	446.6	572.5	665.9	783.6	917.6	1051.6	1124.7	1234.3	1274.9
292.3	65°	332.9	471.0	576.5	694.3	820.1	970.4	1035.3	1145.0	1185.6
211.1	67.5°	247.7	353.2	487.2	588.7	730.8	860.7	937.9	1039.4	1067.8
125.9	70°	186.8	272.0	406.0	495.3	641.5	747.1	824.2	901.3	937.9
85.3	72.5°	109.6	203.0	320.7	426.3	552.2	641.5	698.3	759.2	783.6
40.6	75°	77.1	154.3	251.7	353.2	446.6	519.7	572.5	625.3	649.6
20.3	77.5°	40.6	113.7	198.9	284.2	349.2	410.1	462.9	503.5	519.7
16.2	80°	24.4	81.2	162.4	223.3	268.0	320.7	373.5	402.0	397.9
12.2	82.5°	16.2	65.0	117.7	162.4	194.9	235.5	272.0	292.3	292.3
8.1	85°	12.2	44.7	81.2	125.9	129.9	162.4	170.5	190.8	194.9
8.1	87.5°	8.1	28.4	44.7	73.1	69.0	85.3	89.3	101.5	109.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
49050.3  
49253.3  
50629.7  
51104.7  
50365.8  
48973.2  
46719.8  
42793.7  
37998.7  
32318.6  
27166.3  
21766.3  
17003.8  
12200.7  
7953.8  
5363.4  
3808.4  
2817.7  
2265.5  
1920.4  
1701.2  
1563.1  
1465.7  
1384.5  
1323.6  
1270.8  
1181.5  
1067.8  
929.8  
775.5  
641.5  
515.6  
393.8  
288.3  
190.8  
105.6  
0.0

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