

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: P638712

Luminaire Tested: **EPH-VN-08-D-935-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638712  
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-935-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34771.1 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

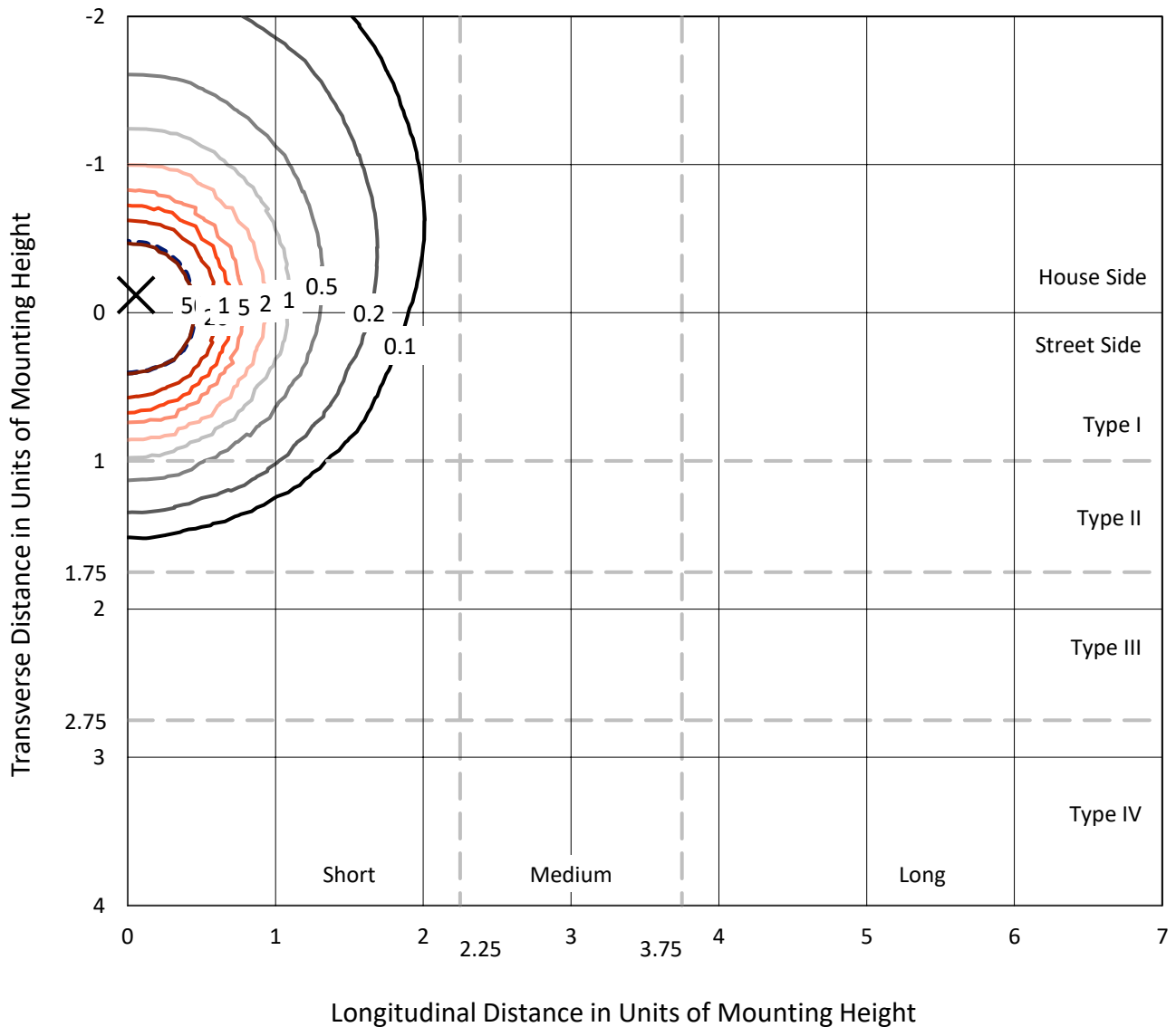
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

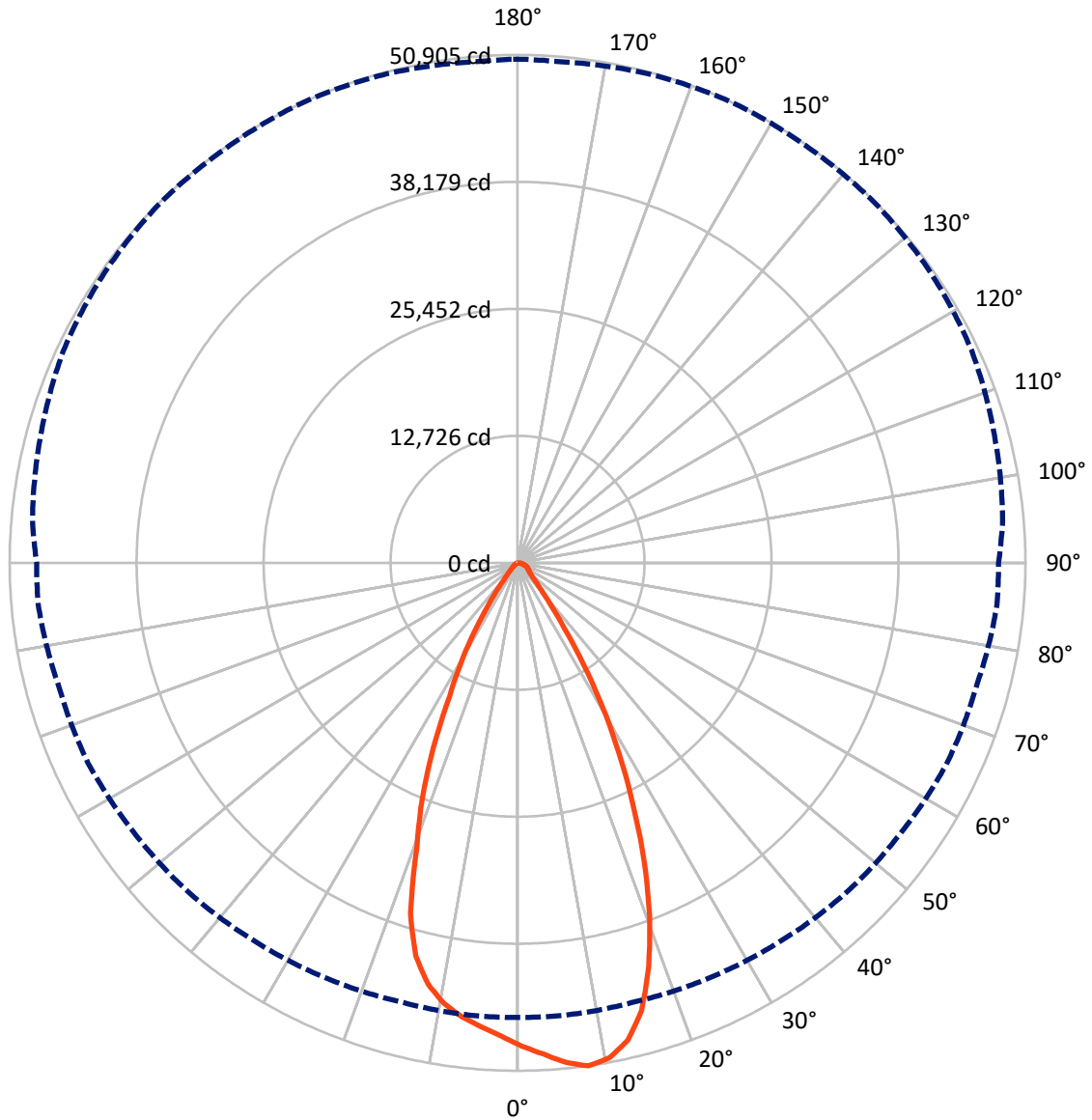
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 123.1 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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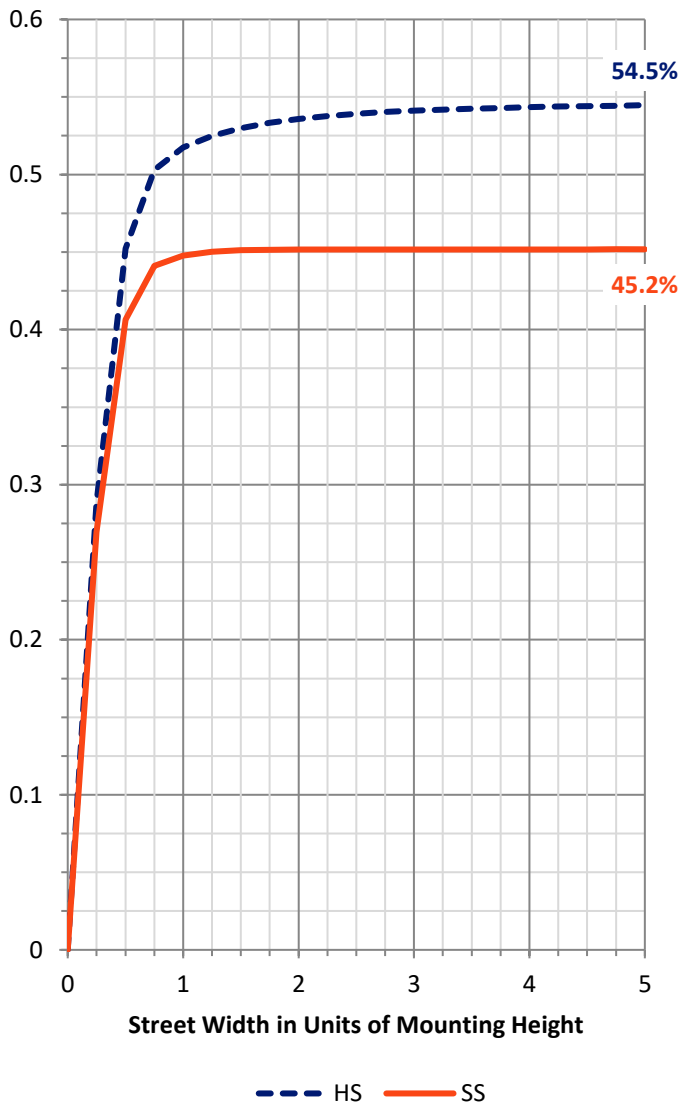
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19194.9	0.0	19194.9
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	15576.2	0.0	15576.2
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	34771.1	0.0	34771.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4619.0	13.3
10°-20°	11977.0	34.4
20°-30°	10974.2	31.6
30°-40°	4433.6	12.8
40°-50°	1300.6	3.7
50°-60°	727.2	2.1
60°-70°	441.7	1.3
70°-80°	224.4	0.6
80°-90°	73.4	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°	34771.1	100.0
0°-180°	34771.1	100.0

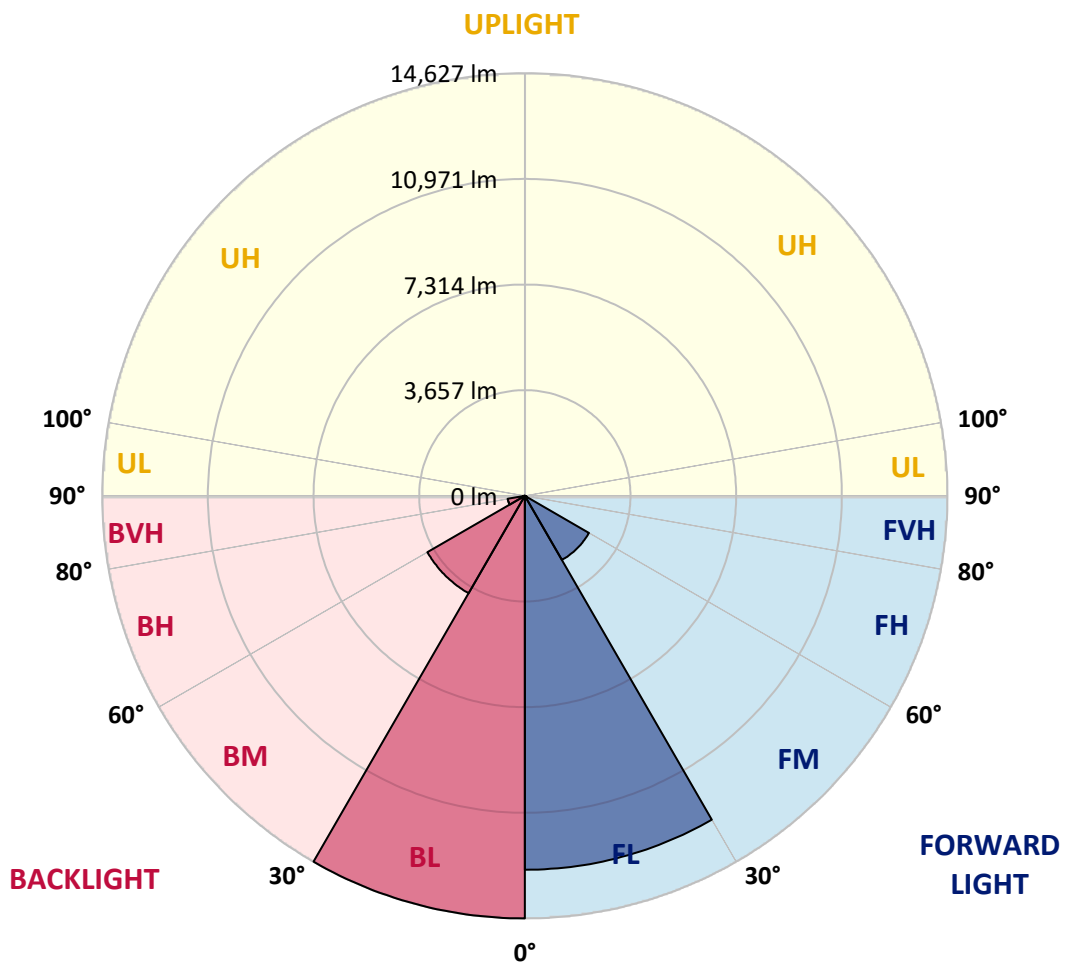


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12942.7	37.2			
FM (30°-60°)	2565.0	7.4			
FH (60°-80°)	62.1	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	14627.5	42.1	B5		
BM (30°-60°)	3896.4	11.2	B3/5000		
BH (60°-80°)	604.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	67.0	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°	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8
2.5°	47388.3	47548.7	47227.9	47440.4	47604.8	47997.8	48029.8	48166.2	48214.3	48571.1
5°	46490.2	46614.5	46353.9	46638.5	46871.1	47219.9	47488.6	47865.4	48073.9	48494.9
7.5°	45556.0	45584.0	45531.9	45832.6	46181.5	46662.6	46995.4	47488.6	47616.9	48218.3
10°	44425.3	44220.8	44321.0	44762.1	45283.3	46021.1	46249.6	46742.8	46971.3	47584.8
12.5°	42621.0	42725.3	42601.0	43162.3	43595.3	44433.3	44673.9	45171.1	45608.1	46149.4
15°	40079.0	40018.8	40271.4	40708.5	41177.6	41843.2	42232.1	42773.4	43106.2	43667.5
17.5°	34365.5	34569.9	35612.4	36707.0	37669.3	38447.1	38912.2	39361.3	39601.9	40211.3
20°	29678.3	29421.7	29562.1	30179.5	32918.0	34108.8	34598.0	34706.3	34806.5	35287.6
22.5°	24437.9	24353.7	24822.8	25516.5	26166.0	28912.5	29578.1	29325.5	29534.0	29987.1
25°	18147.0	18572.0	18989.0	20320.2	21162.2	22509.4	23772.3	23884.6	23960.8	24245.5
27.5°	14771.0	14622.7	14614.6	14987.5	16230.5	17353.1	18427.7	18676.3	18632.2	18904.8
30°	11611.5	11563.4	11395.0	11483.2	11358.9	12357.3	12862.5	13884.9	13828.8	13836.8
32.5°	8375.9	8195.4	8127.3	8259.6	8131.3	8039.1	8480.1	9634.8	9614.8	9695.0
35°	5068.0	5044.0	5100.1	5216.4	4959.8	4951.7	5044.0	6130.5	6262.8	6391.1
37.5°	2798.6	2774.6	2818.7	3247.7	3163.5	3087.3	3111.4	3684.7	4065.6	4161.9
40°	1844.4	1840.4	1872.4	1948.6	2093.0	2064.9	2076.9	2333.5	2694.4	2778.6
42.5°	1234.9	1238.9	1259.0	1347.2	1367.2	1511.6	1487.5	1547.7	1884.5	1956.6
45°	986.3	982.3	994.4	954.3	978.3	1126.7	1142.7	1146.7	1435.4	1479.5
47.5°	777.8	777.8	789.9	737.7	725.7	817.9	902.1	914.2	1146.7	1206.9
50°	545.3	545.3	605.4	581.4	609.4	637.5	729.7	741.8	938.2	1002.4
52.5°	401.0	409.0	417.0	421.0	513.2	509.2	589.4	645.5	709.7	821.9
55°	304.7	312.7	292.7	312.7	380.9	425.0	441.0	521.2	565.3	689.6
57.5°	200.5	220.5	204.5	240.6	256.6	328.8	352.8	429.0	457.1	565.3
60°	28.1	32.1	52.1	168.4	180.4	216.5	272.6	340.8	368.9	461.1
62.5°	4.0	4.0	12.0	28.1	120.3	144.3	204.5	236.6	272.6	344.8
65°	0.0	0.0	4.0	8.0	24.1	84.2	104.2	128.3	188.4	248.6
67.5°	0.0	0.0	4.0	8.0	12.0	28.1	44.1	84.2	108.3	172.4
70°	0.0	0.0	4.0	8.0	12.0	16.0	24.1	32.1	64.2	100.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.0	24.1	28.1	64.2
75°	0.0	0.0	4.0	8.0	12.0	20.0	24.1	24.1	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	16.0	24.1	28.1	24.1	20.0	20.0
80°	0.0	0.0	4.0	12.0	20.0	28.1	32.1	24.1	16.0	12.0
82.5°	0.0	0.0	4.0	12.0	20.0	28.1	32.1	28.1	16.0	12.0
85°	0.0	0.0	4.0	12.0	16.0	20.0	32.1	28.1	16.0	8.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	16.0	12.0	8.0	4.0
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°
48438.8	0°	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8	48438.8
48563.1	2.5°	48924.0	49104.4	49421.1	49509.3	49782.0	49469.2	49296.8	49312.9	48940.0
48442.8	5°	48924.0	49336.9	49890.2	50154.9	50355.3	50339.3	50295.2	50182.9	49910.3
48202.2	7.5°	48795.7	49469.2	50231.1	50583.9	50824.5	50804.4	50904.7	50724.2	50391.4
47773.2	10°	48382.7	48968.1	49906.3	50195.0	50583.9	50591.9	50467.6	50503.7	49910.3
46205.5	12.5°	47083.6	47540.7	48362.6	48691.4	49164.5	49240.7	49104.4	49052.3	48490.9
43635.4	15°	44569.6	44834.3	45660.2	45989.0	46458.1	46394.0	46530.3	46474.1	45981.0
40163.2	17.5°	40892.9	40977.1	41843.2	42119.8	42560.9	42733.3	42528.8	42789.4	42364.4
35371.8	20°	35620.4	36073.5	37047.8	37472.8	37729.4	38038.2	37769.5	38062.2	37565.0
29558.1	22.5°	30271.7	30540.4	31422.5	32035.9	32513.1	32573.2	32473.0	32677.4	32007.9
24433.9	25°	24429.9	24875.0	25572.6	26374.5	26843.6	27132.3	26871.7	27004.0	26895.7
18948.9	27.5°	19269.7	19666.6	20191.9	20789.3	21494.9	21871.8	21663.3	21887.9	21358.6
14129.5	30°	14141.5	14342.0	14935.4	15568.9	16342.7	16799.8	16819.9	17048.4	16735.7
9899.5	32.5°	9971.6	10148.1	10512.9	10933.9	11671.7	12180.9	12100.7	12132.8	11940.3
6451.3	35°	6483.4	6719.9	6980.5	7181.0	7626.1	8187.4	8143.3	8103.2	7970.9
4242.1	37.5°	4334.3	4426.5	4570.8	4751.3	5039.9	5392.8	5509.1	5364.7	5308.6
2862.8	40°	2930.9	3091.3	3187.6	3323.9	3460.2	3756.9	3837.1	3809.0	3752.9
2004.8	42.5°	2080.9	2205.2	2325.5	2457.8	2530.0	2714.4	2870.8	2826.7	2802.6
1523.6	45°	1579.7	1692.0	1832.3	1932.6	2004.8	2113.0	2261.4	2277.4	2241.3
1222.9	47.5°	1267.0	1367.2	1479.5	1603.8	1688.0	1756.2	1884.5	1932.6	1908.5
1030.4	50°	1074.5	1150.7	1259.0	1383.3	1475.5	1535.6	1647.9	1700.0	1684.0
862.0	52.5°	914.2	1006.4	1106.6	1210.9	1323.1	1383.3	1487.5	1563.7	1551.7
713.7	55°	757.8	878.1	982.3	1086.6	1214.9	1275.0	1367.2	1467.5	1447.4
605.4	57.5°	661.6	761.8	870.1	970.3	1106.6	1186.8	1271.0	1375.3	1371.3
497.2	60°	553.3	653.5	773.8	858.0	1002.4	1114.6	1190.8	1299.1	1307.1
376.9	62.5°	441.0	565.3	657.6	773.8	906.1	1038.5	1110.6	1218.9	1259.0
288.7	65°	328.8	465.1	569.3	685.6	809.9	958.3	1022.4	1130.7	1170.8
208.5	67.5°	244.6	348.8	481.1	581.4	721.7	850.0	926.2	1026.4	1054.5
124.3	70°	184.4	268.6	401.0	489.2	633.5	737.7	813.9	890.1	926.2
84.2	72.5°	108.3	200.5	316.8	421.0	545.3	633.5	689.6	749.8	773.8
40.1	75°	76.2	152.4	248.6	348.8	441.0	513.2	565.3	617.5	641.5
20.0	77.5°	40.1	112.3	196.5	280.7	344.8	405.0	457.1	497.2	513.2
16.0	80°	24.1	80.2	160.4	220.5	264.6	316.8	368.9	396.9	392.9
12.0	82.5°	16.0	64.2	116.3	160.4	192.5	232.6	268.6	288.7	288.7
8.0	85°	12.0	44.1	80.2	124.3	128.3	160.4	168.4	188.4	192.5
8.0	87.5°	8.0	28.1	44.1	72.2	68.2	84.2	88.2	100.2	108.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
48438.8  
48639.3  
49998.5  
50467.6  
49737.9  
48362.6  
46137.4  
42260.2  
37524.9  
31915.6  
26827.6  
21494.9  
16791.8  
12048.6  
7854.6  
5296.6  
3760.9  
2782.6  
2237.3  
1896.5  
1680.0  
1543.7  
1447.4  
1367.2  
1307.1  
1255.0  
1166.8  
1054.5  
918.2  
765.8  
633.5  
509.2  
388.9  
284.7  
188.4  
104.2  
0.0

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