

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: P638759

Luminaire Tested: **EPH-VN-07-E-930-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638759
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-930-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30464.4 lumens
Efficiency: N/A
Efficacy: 57.2 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): 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



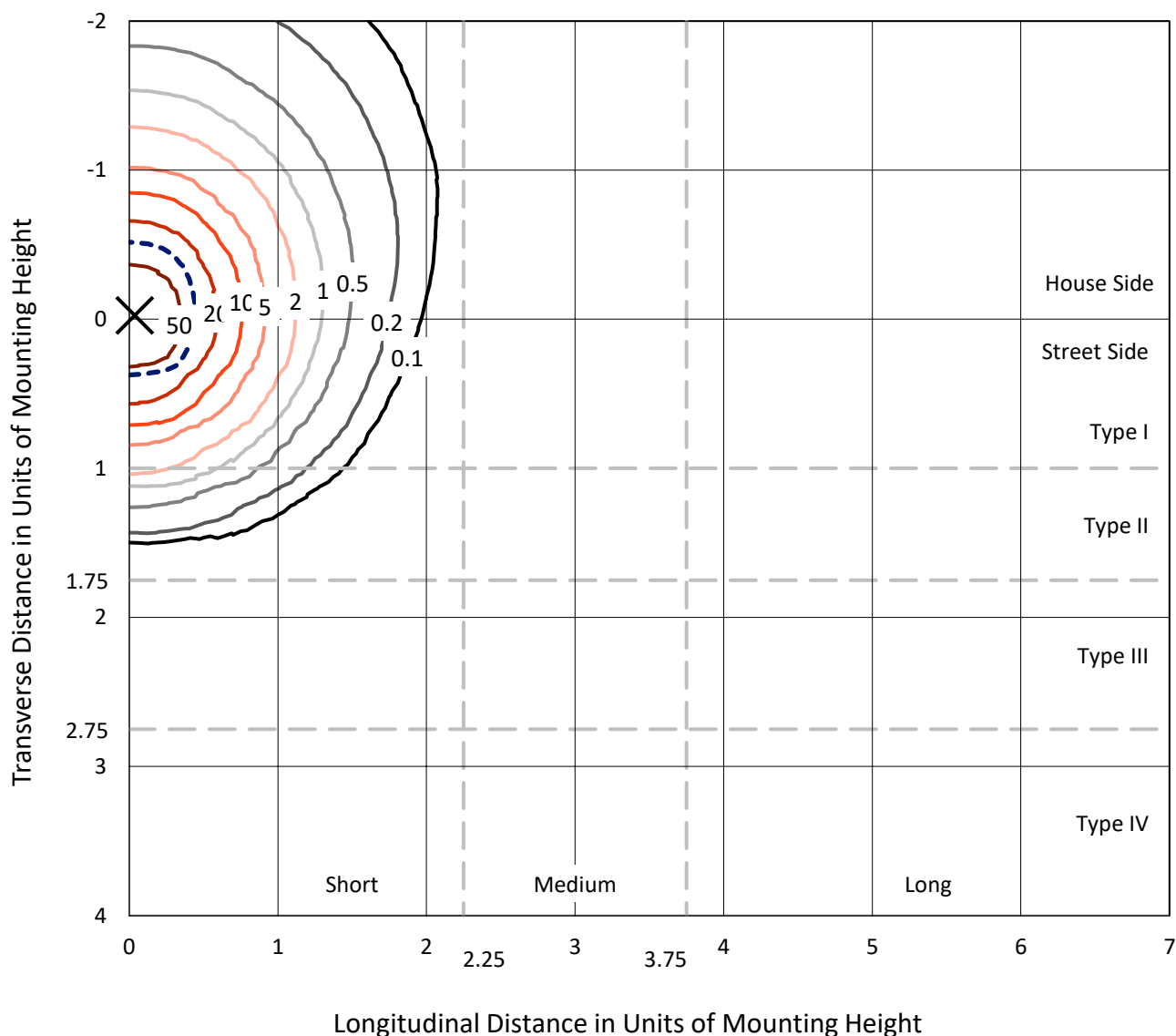
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

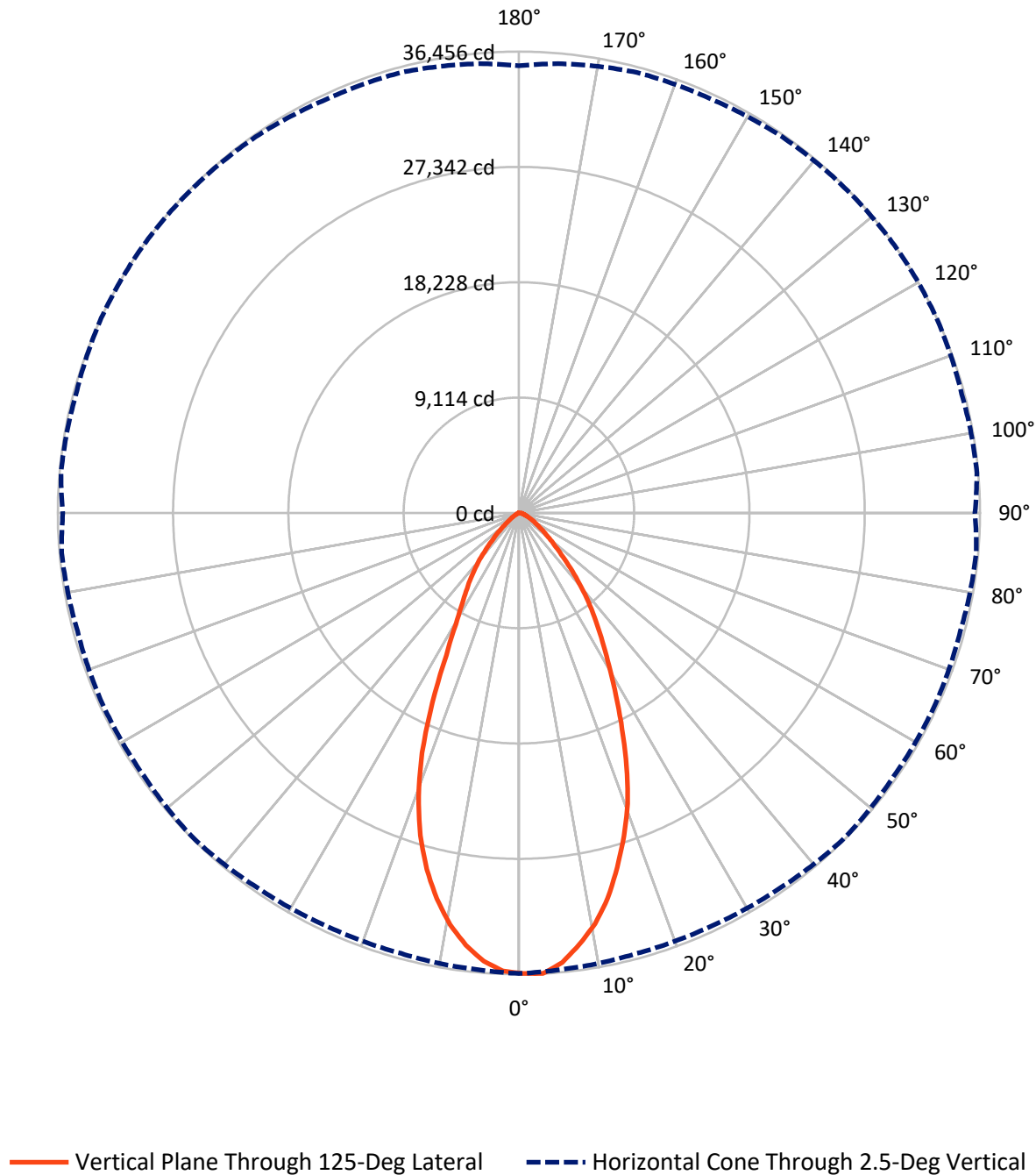


Based on 20 foot mounting height. Maximum calculated value = 91 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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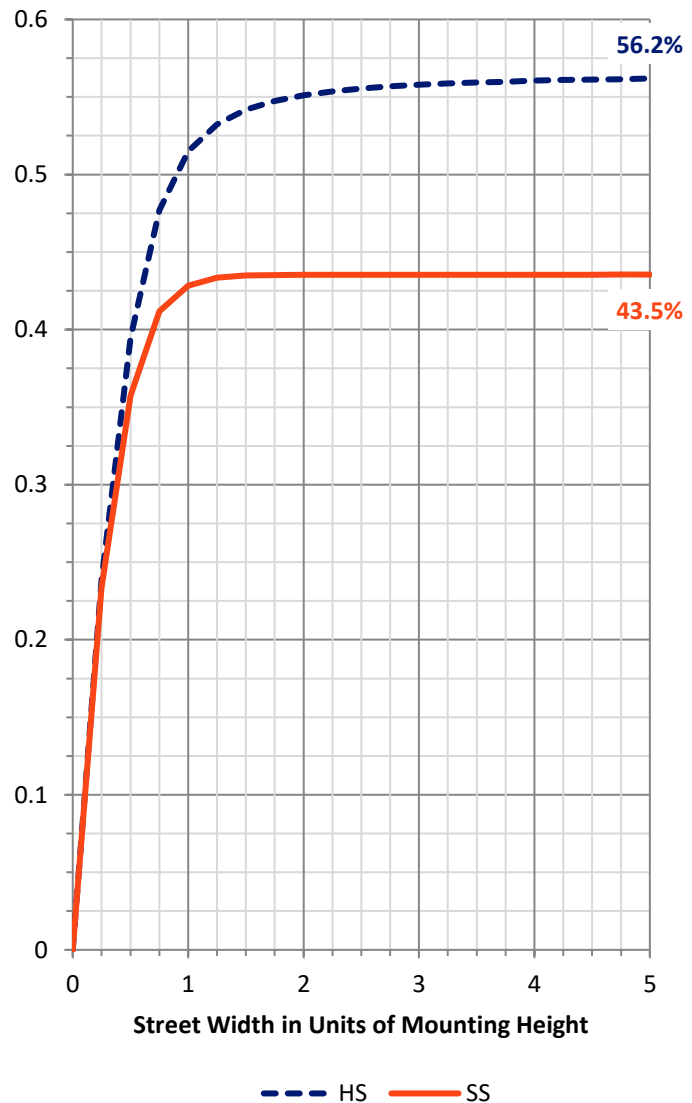
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17286.7	0.0	17286.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13177.7	0.0	13177.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	30464.4	0.0	30464.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3305.0	10.8
10°-20°	7878.5	25.9
20°-30°	8024.1	26.3
30°-40°	5983.5	19.6
40°-50°	3125.9	10.3
50°-60°	1314.8	4.3
60°-70°	537.0	1.8
70°-80°	226.0	0.7
80°-90°	69.6	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°	30464.4	100.0
0°-180°	30464.4	100.0



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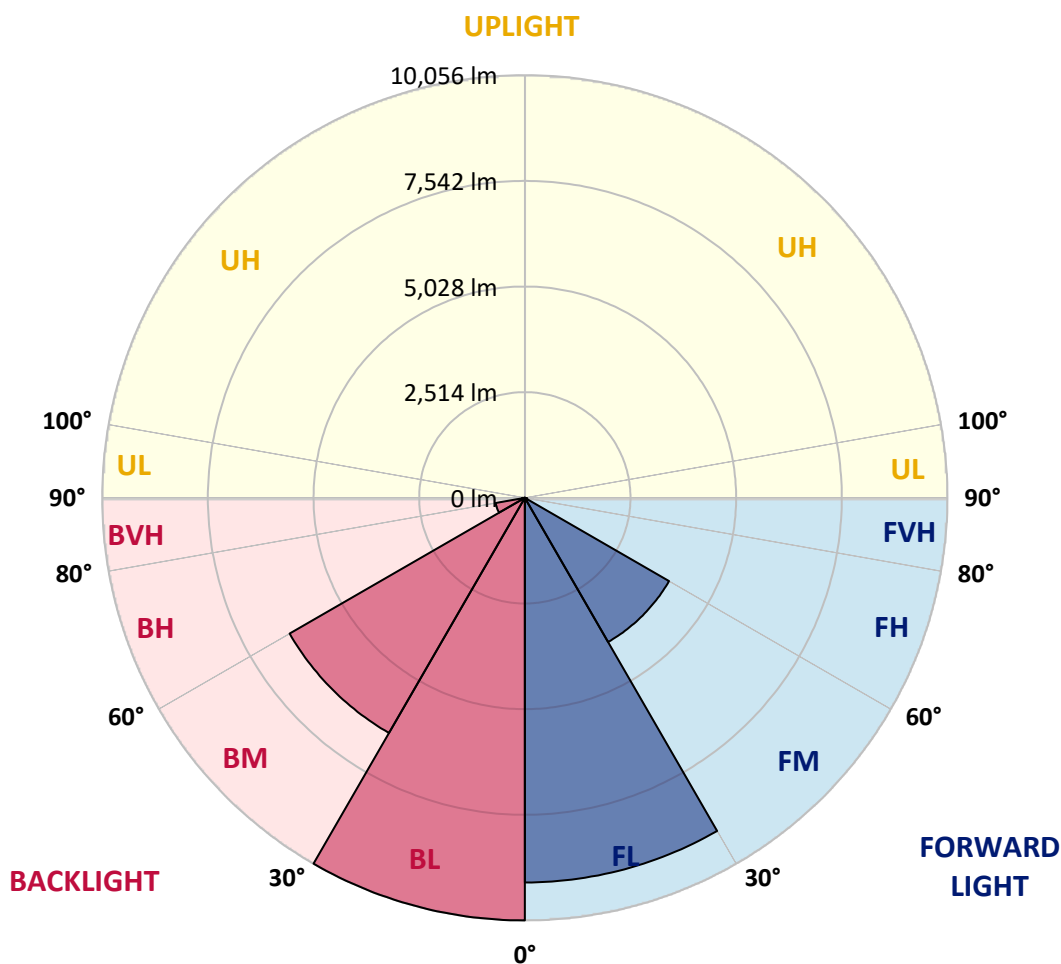
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9151.9	30.0			
FM	(30°-60°)	3962.0	13.0			
FH	(60°-80°)	57.3	0.2			G0/660
FVH	(80°-90°)	6.5	0.0			G0/10
BL	(0°-30°)	10055.7	33.0	B5		
BM	(30°-60°)	6462.2	21.2	B4/8500		
BH	(60°-80°)	705.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	63.2	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°	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5
2.5°	36401.4	36252.7	36041.4	36021.8	36131.4	36370.1	36217.5	36225.3	36131.4	36291.9
5°	35830.1	35689.2	35544.4	35352.7	35513.1	35614.9	35536.6	35450.5	35329.2	35485.7
7.5°	34750.0	34671.8	34456.5	34370.4	34468.3	34581.8	34413.5	34390.0	34221.7	34425.2
10°	33098.6	33067.3	32856.0	32805.1	32891.2	33063.4	32989.0	32973.4	32867.7	32848.2
12.5°	31384.6	31263.3	31001.1	30985.4	31114.6	31372.9	31173.3	30981.5	31040.2	31091.1
15°	26970.4	26841.3	27490.9	28512.2	29048.4	29028.8	29087.5	28856.6	28786.2	28809.7
17.5°	21440.9	21221.8	21456.6	23037.5	25585.1	27064.3	26657.3	26160.4	25894.2	25718.2
20°	18506.0	18517.7	18474.6	18881.6	20470.4	23843.7	23745.9	22787.1	22438.8	22294.0
22.5°	16721.5	16655.0	16561.0	16690.2	17116.7	19096.9	20423.5	19543.0	19421.7	19261.2
25°	14972.3	14972.3	14858.8	14987.9	15109.2	15136.6	16467.1	16827.2	16592.4	16592.4
27.5°	13457.8	13379.5	13328.7	13387.4	13226.9	12456.0	12624.3	14467.4	14307.0	14209.2
30°	11955.1	11931.6	11845.5	11923.8	11329.0	10460.2	10108.0	12209.5	12377.7	12342.5
32.5°	9869.3	9963.2	10346.7	10468.1	9450.6	8750.1	8413.6	10135.4	10808.5	10781.1
35°	6707.4	6785.6	7223.9	8671.9	7834.4	7333.5	7235.7	8061.4	9168.8	9274.5
37.5°	5341.6	5329.9	5455.1	5713.4	6296.5	6175.2	6147.8	6363.0	7478.3	7525.3
40°	4402.5	4386.8	4382.9	4171.6	4026.8	5134.2	5059.9	4930.7	5897.3	5991.2
42.5°	3549.4	3565.0	3576.7	3115.0	2903.7	3960.3	3917.2	3784.2	4625.5	4735.1
45°	2786.3	2782.4	2805.8	2320.6	2261.9	2531.9	2927.1	2821.5	3490.7	3608.1
47.5°	1444.0	1494.9	1811.9	1796.2	1823.6	1796.2	2214.9	2187.5	2625.8	2813.7
50°	970.5	986.1	1013.5	1017.5	1436.2	1322.7	1502.7	1702.3	1839.2	2128.8
52.5°	751.4	763.1	692.7	649.6	880.5	978.3	986.1	1177.9	1283.6	1577.1
55°	418.7	469.6	504.8	508.7	485.2	724.0	720.0	872.7	954.8	1150.5
57.5°	54.8	66.5	101.7	328.7	324.8	403.1	504.8	634.0	680.9	841.4
60°	3.9	7.8	11.7	50.9	215.2	234.8	344.4	395.2	473.5	590.9
62.5°	0.0	0.0	3.9	11.7	43.0	137.0	180.0	207.4	277.8	387.4
65°	0.0	0.0	3.9	7.8	15.7	50.9	70.4	113.5	164.4	238.7
67.5°	0.0	0.0	3.9	7.8	11.7	19.6	31.3	50.9	86.1	144.8
70°	0.0	0.0	3.9	7.8	11.7	15.7	23.5	31.3	47.0	78.3
72.5°	0.0	0.0	3.9	3.9	7.8	19.6	19.6	23.5	31.3	43.0
75°	0.0	0.0	3.9	7.8	11.7	19.6	19.6	19.6	23.5	27.4
77.5°	0.0	0.0	3.9	7.8	11.7	19.6	15.7	19.6	19.6	19.6
80°	0.0	0.0	3.9	7.8	11.7	19.6	23.5	19.6	15.7	15.7
82.5°	0.0	0.0	3.9	11.7	11.7	27.4	27.4	27.4	11.7	11.7
85°	0.0	0.0	7.8	11.7	19.6	31.3	31.3	23.5	11.7	7.8
87.5°	0.0	0.0	3.9	7.8	7.8	15.7	23.5	19.6	7.8	3.9
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°
36397.5	0°	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5	36397.5
36057.1	2.5°	36346.6	36248.8	36432.7	36456.2	36378.0	36280.1	36053.2	36033.6	35638.3
35258.8	5°	35657.9	35497.5	35614.9	35693.1	35665.7	35560.1	35466.2	35380.1	35024.0
33963.5	7.5°	34374.4	34315.7	34370.4	34429.1	34542.6	34429.1	34390.0	34300.0	33947.8
32687.7	10°	32949.9	32840.3	33047.7	33020.4	32989.0	32957.7	32793.4	32809.0	32394.2
30950.2	12.5°	31200.7	31016.7	31216.3	31239.8	31216.3	31106.8	30922.8	31001.1	30621.5
28602.2	15°	28848.8	28829.2	28974.0	29067.9	29134.5	29017.1	28954.4	28993.6	28766.6
25581.2	17.5°	25960.8	26215.1	26688.6	26849.1	26853.0	26974.3	26939.1	26892.1	26723.9
22235.3	20°	22564.0	23053.2	23781.1	24528.5	24743.7	24642.0	24595.0	24681.1	24430.7
19092.9	22.5°	19429.5	19848.2	20693.5	21785.3	22415.3	22477.9	22466.2	22391.9	22294.0
16576.7	25°	16768.5	17140.2	17950.3	18948.2	20157.4	20337.4	20345.2	20321.7	20235.6
14295.3	27.5°	14522.2	14972.3	15418.4	16310.6	17598.1	18341.6	18247.7	18220.3	18189.0
12369.9	30°	12487.3	13054.7	13473.5	14029.1	15183.6	16189.3	16287.1	16240.2	16165.8
10777.2	32.5°	10875.0	11211.6	11743.8	12119.5	12949.1	14087.8	14463.5	14428.3	14361.8
9341.0	35°	9474.1	9607.1	10025.9	10444.6	10996.3	12099.9	12655.6	12577.3	12565.6
7611.4	37.5°	7803.1	8249.2	8480.1	8902.7	9290.2	10147.2	10914.2	10878.9	10882.9
6120.4	40°	6300.4	6558.7	7016.5	7372.6	7728.8	8354.9	9208.0	9231.5	9223.6
4739.0	42.5°	4836.8	5087.3	5568.6	5956.0	6273.0	6660.4	7474.4	7501.8	7537.0
3690.2	45°	3776.3	3936.8	4289.0	4692.0	5028.6	5263.4	5881.7	6057.8	6061.7
2860.6	47.5°	2931.1	3115.0	3365.4	3752.8	4081.6	4249.8	4699.9	4938.6	4926.8
2195.4	50°	2301.0	2469.3	2672.8	2978.0	3334.1	3467.2	3799.8	4034.6	4022.9
1655.3	52.5°	1761.0	1976.2	2156.2	2391.0	2739.3	2852.8	3091.5	3361.5	3322.4
1213.1	55°	1334.4	1553.6	1721.8	1917.5	2234.5	2379.3	2543.6	2758.9	2766.7
939.2	57.5°	1005.7	1232.7	1385.3	1584.9	1823.6	1984.0	2109.3	2340.1	2336.2
641.8	60°	720.0	915.7	1099.6	1307.0	1491.0	1674.9	1761.0	1980.1	1988.0
453.9	62.5°	520.5	704.4	880.5	1060.5	1224.9	1404.9	1483.1	1655.3	1678.8
297.4	65°	363.9	493.1	696.6	833.5	1017.5	1150.5	1252.3	1401.0	1428.4
176.1	67.5°	234.8	356.1	551.8	673.1	841.4	954.8	1060.5	1177.9	1213.1
113.5	70°	140.9	270.0	410.9	540.0	692.7	794.4	896.1	997.9	1017.5
54.8	72.5°	90.0	187.8	297.4	438.3	555.7	665.3	755.3	829.6	770.9
35.2	75°	50.9	129.1	234.8	344.4	450.0	555.7	630.0	669.2	536.1
23.5	77.5°	31.3	93.9	191.8	277.8	348.3	446.1	493.1	516.6	383.5
15.7	80°	19.6	70.4	160.4	227.0	227.0	328.7	383.5	403.1	277.8
11.7	82.5°	15.7	50.9	125.2	172.2	152.6	246.5	301.3	305.2	195.7
7.8	85°	11.7	39.1	78.3	113.5	105.7	172.2	176.1	195.7	129.1
7.8	87.5°	7.8	23.5	47.0	66.5	58.7	82.2	93.9	105.7	70.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
36397.5
35329.2
34738.3
33873.4
32253.3
30511.9
28492.7
26473.4
24250.7
22106.2
19946.0
18005.1
16071.9
14185.7
12436.4
10757.6
9086.7
7419.6
5959.9
4883.8
4022.9
3326.3
2766.7
2328.4
1968.4
1671.0
1420.5
1209.2
1001.8
716.1
508.7
360.0
258.3
180.0
117.4
62.6
0.0

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