

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: P638735

Luminaire Tested: **EPH-VN-07-E-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638735
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-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46948.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

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



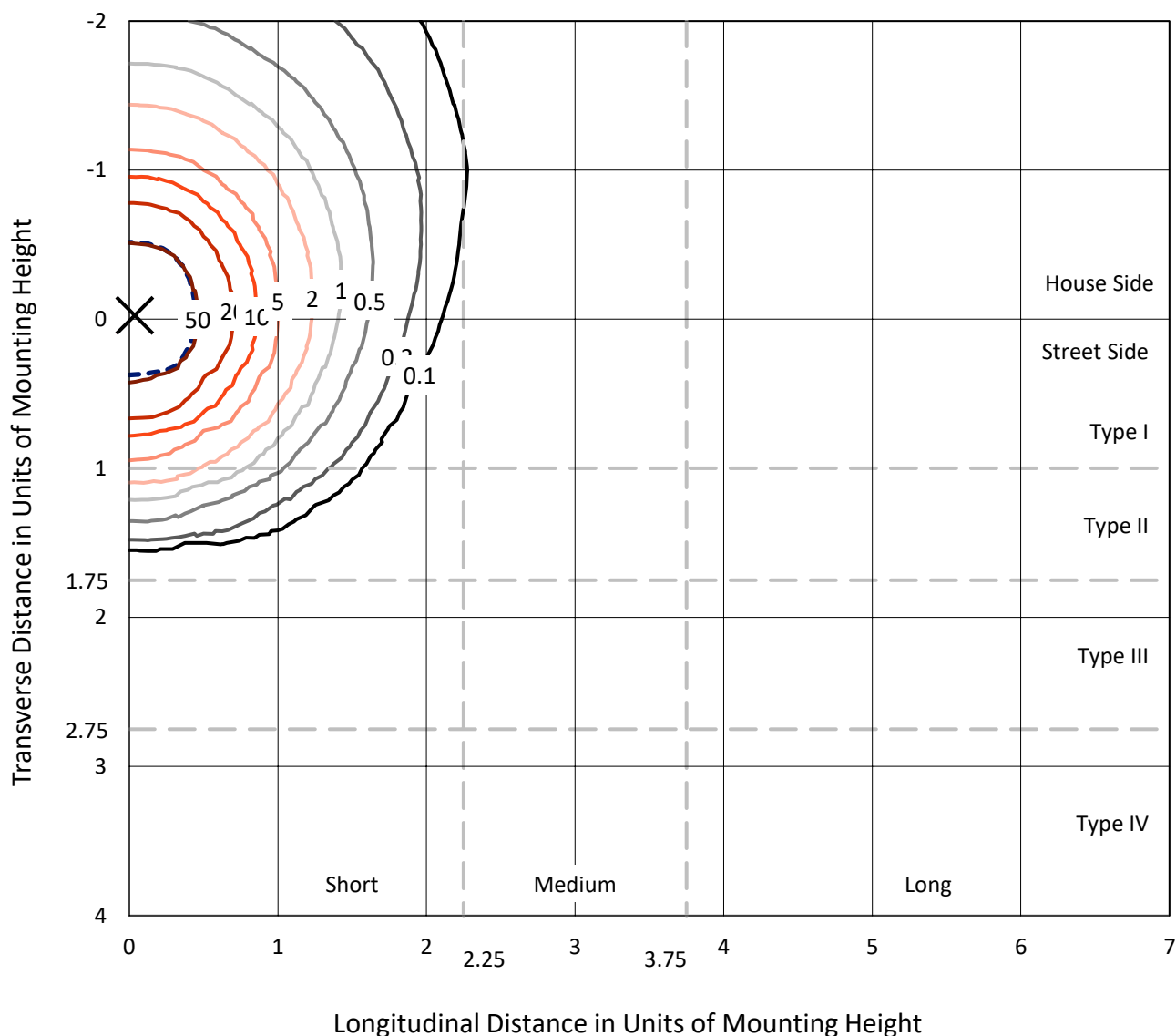
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

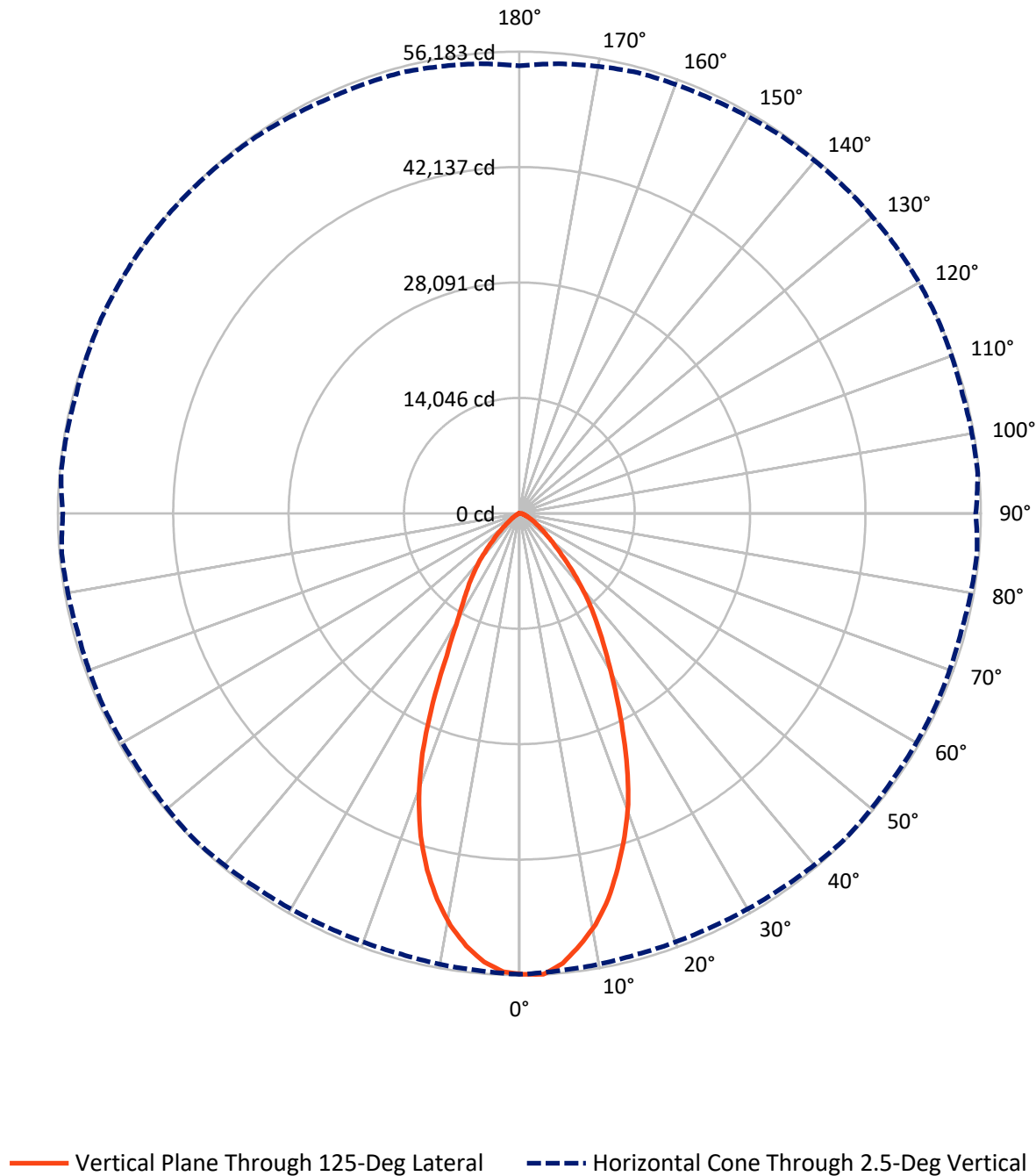


Based on 20 foot mounting height. Maximum calculated value = 140.2 fc

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	26640.4	0.0	26640.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	20308.0	0.0	20308.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	46948.4	0.0	46948.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5093.4	10.8
10°-20°	12141.4	25.9
20°-30°	12365.8	26.3
30°-40°	9221.2	19.6
40°-50°	4817.4	10.3
50°-60°	2026.2	4.3
60°-70°	827.5	1.8
70°-80°	348.2	0.7
80°-90°	107.3	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°	46948.4	100.0
0°-180°	46948.4	100.0

Coefficient of Utilization



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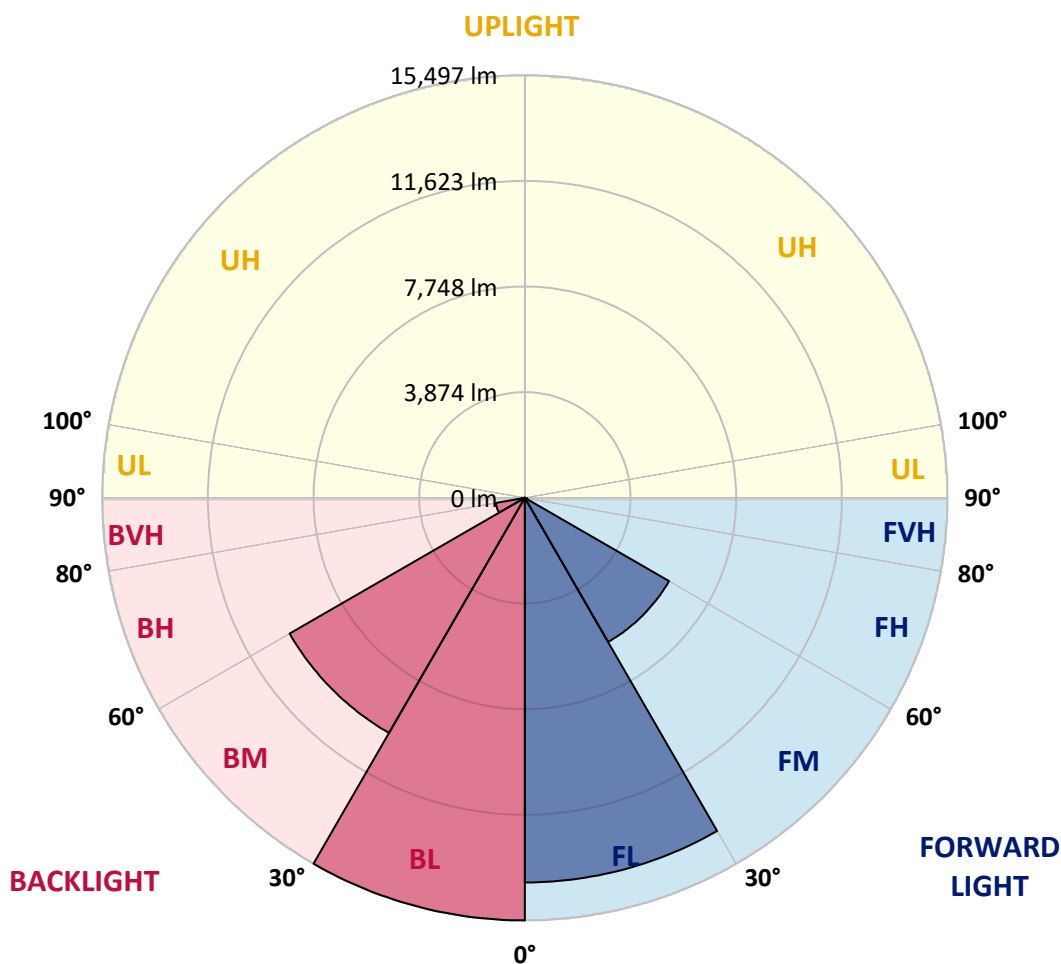
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14103.9	30.0			
FM	(30°-60°)	6105.8	13.0			
FH	(60°-80°)	88.3	0.2			G0/660
FVH	(80°-90°)	10.0	0.0			G0/10
BL	(0°-30°)	15496.7	33.0	B5		
BM	(30°-60°)	9958.9	21.2	B5		
BH	(60°-80°)	1087.4	2.3	B3/2500		G3/2500
BVH	(80°-90°)	97.3	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-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0
2.5°	56098.0	55868.9	55543.2	55513.0	55681.9	56049.8	55814.6	55826.6	55681.9	55929.2
5°	55217.5	55000.4	54777.3	54481.8	54729.0	54885.8	54765.2	54632.6	54445.6	54686.8
7.5°	53553.0	53432.4	53100.7	52968.1	53118.8	53293.7	53034.4	52998.2	52738.9	53052.5
10°	51008.1	50959.8	50634.2	50555.8	50688.4	50953.8	50839.2	50815.1	50652.3	50622.1
12.5°	48366.6	48179.7	47775.6	47751.5	47950.5	48348.5	48040.9	47745.4	47835.9	47914.3
15°	41563.9	41364.9	42366.0	43940.0	44766.2	44736.1	44826.6	44470.7	44362.2	44398.4
17.5°	33042.5	32704.8	33066.6	35503.0	39429.0	41708.7	41081.5	40315.6	39905.5	39634.1
20°	28519.4	28537.5	28471.2	29098.4	31546.8	36745.4	36594.6	35117.0	34580.3	34357.2
22.5°	25769.4	25666.9	25522.1	25721.1	26378.5	29430.1	31474.5	30117.6	29930.6	29683.3
25°	23073.6	23073.6	22898.8	23097.8	23284.7	23326.9	25377.4	25932.2	25570.4	25570.4
27.5°	20739.7	20619.1	20540.7	20631.2	20383.9	19195.9	19455.2	22295.7	22048.4	21897.6
30°	18423.9	18387.8	18255.1	18375.7	17459.0	16120.2	15577.4	18815.9	19075.3	19021.0
32.5°	15209.5	15354.3	15945.3	16132.3	14564.3	13484.8	12966.1	15619.6	16656.9	16614.7
35°	10336.7	10457.3	11132.8	13364.1	12073.6	11301.6	11150.9	12423.3	14130.0	14292.9
37.5°	8232.0	8213.9	8406.9	8804.9	9703.5	9516.5	9474.3	9806.0	11524.8	11597.1
40°	6784.6	6760.5	6754.4	6428.8	6205.6	7912.3	7797.8	7598.7	9088.3	9233.1
42.5°	5469.9	5494.0	5512.1	4800.5	4474.8	6103.1	6036.8	5831.7	7128.3	7297.2
45°	4293.9	4287.9	4324.0	3576.2	3485.8	3901.9	4511.0	4348.2	5379.4	5560.4
47.5°	2225.3	2303.7	2792.2	2768.1	2810.3	2768.1	3413.4	3371.2	4046.6	4336.1
50°	1495.6	1519.7	1562.0	1568.0	2213.3	2038.4	2315.8	2623.4	2834.5	3280.7
52.5°	1157.9	1176.0	1067.4	1001.1	1356.9	1507.7	1519.7	1815.3	1978.1	2430.4
55°	645.3	723.7	778.0	784.0	747.8	1115.7	1109.7	1344.9	1471.5	1773.0
57.5°	84.4	102.5	156.8	506.6	500.6	621.2	778.0	977.0	1049.4	1296.6
60°	6.0	12.1	18.1	78.4	331.7	361.8	530.7	609.1	729.7	910.6
62.5°	0.0	0.0	6.0	18.1	66.3	211.1	277.4	319.6	428.2	597.0
65°	0.0	0.0	6.0	12.1	24.1	78.4	108.6	174.9	253.3	367.9
67.5°	0.0	0.0	6.0	12.1	18.1	30.2	48.2	78.4	132.7	223.1
70°	0.0	0.0	6.0	12.1	18.1	24.1	36.2	48.2	72.4	120.6
72.5°	0.0	0.0	6.0	6.0	12.1	30.2	30.2	36.2	48.2	66.3
75°	0.0	0.0	6.0	12.1	18.1	30.2	30.2	30.2	36.2	42.2
77.5°	0.0	0.0	6.0	12.1	18.1	30.2	24.1	30.2	30.2	30.2
80°	0.0	0.0	6.0	12.1	18.1	30.2	36.2	30.2	24.1	24.1
82.5°	0.0	0.0	6.0	18.1	18.1	42.2	42.2	42.2	18.1	18.1
85°	0.0	0.0	12.1	18.1	30.2	48.2	48.2	36.2	18.1	12.1
87.5°	0.0	0.0	6.0	12.1	12.1	24.1	36.2	30.2	12.1	6.0
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°
56092.0	0°	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0	56092.0
55567.3	2.5°	56013.6	55862.8	56146.3	56182.5	56061.8	55911.1	55561.3	55531.1	54922.0
54337.0	5°	54952.2	54704.9	54885.8	55006.5	54964.2	54801.4	54656.7	54524.0	53975.2
52340.9	7.5°	52974.1	52883.6	52968.1	53058.5	53233.4	53058.5	52998.2	52859.5	52316.7
50374.8	10°	50778.9	50610.0	50929.7	50887.5	50839.2	50791.0	50537.7	50561.8	49922.5
47697.2	12.5°	48083.2	47799.7	48107.3	48143.5	48107.3	47938.4	47655.0	47775.6	47190.6
44078.7	15°	44458.7	44428.5	44651.7	44796.4	44898.9	44718.0	44621.5	44681.8	44332.0
39423.0	17.5°	40008.0	40400.0	41129.7	41377.0	41383.0	41570.0	41515.7	41443.3	41184.0
34266.7	20°	34773.3	35527.1	36648.9	37800.7	38132.4	37975.6	37903.3	38035.9	37650.0
29424.0	22.5°	29942.7	30588.0	31890.6	33573.2	34544.1	34640.6	34622.5	34507.9	34357.2
25546.3	25°	25841.8	26414.7	27663.0	29200.9	31064.4	31341.8	31353.9	31317.7	31185.0
22030.3	27.5°	22380.1	23073.6	23761.1	25136.2	27120.3	28266.1	28121.4	28079.2	28030.9
19063.2	30°	19244.1	20118.6	20763.9	21620.2	23399.3	24949.2	25100.0	25027.6	24913.0
16608.7	32.5°	16759.5	17278.1	18098.3	18677.2	19955.7	21710.7	22289.6	22235.4	22132.8
14395.4	35°	14600.4	14805.5	15450.8	16096.1	16946.4	18647.1	19503.4	19382.8	19364.7
11729.8	37.5°	12025.3	12712.8	13068.6	13720.0	14317.0	15637.7	16819.8	16765.5	16771.5
9432.1	40°	9709.5	10107.5	10813.1	11361.9	11910.7	12875.6	14190.4	14226.5	14214.5
7303.2	42.5°	7454.0	7840.0	8581.8	9178.8	9667.3	10264.3	11518.7	11560.9	11615.2
5687.0	45°	5819.7	6066.9	6609.7	7230.9	7749.5	8111.4	9064.2	9335.6	9341.6
4408.5	47.5°	4517.0	4800.5	5186.4	5783.5	6290.1	6549.4	7242.9	7610.8	7592.7
3383.3	50°	3546.1	3805.4	4119.0	4589.4	5138.2	5343.2	5855.9	6217.7	6199.6
2551.0	52.5°	2713.8	3045.5	3322.9	3684.8	4221.5	4396.4	4764.3	5180.4	5120.1
1869.5	55°	2056.5	2394.2	2653.5	2955.1	3443.6	3666.7	3920.0	4251.7	4263.7
1447.4	57.5°	1549.9	1899.7	2134.9	2442.5	2810.3	3057.6	3250.6	3606.4	3600.4
989.0	60°	1109.7	1411.2	1694.6	2014.3	2297.7	2581.2	2713.8	3051.6	3063.6
699.6	62.5°	802.1	1085.5	1356.9	1634.3	1887.6	2165.0	2285.7	2551.0	2587.2
458.3	65°	560.9	759.9	1073.5	1284.5	1568.0	1773.0	1929.8	2159.0	2201.2
271.4	67.5°	361.8	548.8	850.3	1037.3	1296.6	1471.5	1634.3	1815.3	1869.5
174.9	70°	217.1	416.1	633.2	832.2	1067.4	1224.2	1381.0	1537.8	1568.0
84.4	72.5°	138.7	289.5	458.3	675.4	856.4	1025.2	1163.9	1278.5	1188.1
54.3	75°	78.4	199.0	361.8	530.7	693.5	856.4	971.0	1031.3	826.2
36.2	77.5°	48.2	144.7	295.5	428.2	536.7	687.5	759.9	796.1	591.0
24.1	80°	30.2	108.6	247.3	349.8	349.8	506.6	591.0	621.2	428.2
18.1	82.5°	24.1	78.4	193.0	265.4	235.2	379.9	464.4	470.4	301.5
12.1	85°	18.1	60.3	120.6	174.9	162.8	265.4	271.4	301.5	199.0
12.1	87.5°	12.1	36.2	72.4	102.5	90.5	126.6	144.7	162.8	108.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
56092.0
54445.6
53535.0
52202.2
49705.4
47021.7
43909.9
40798.0
37372.5
34067.7
30738.7
27747.5
24768.3
21861.5
19165.7
16578.5
14003.4
11434.3
9184.8
7526.4
6199.6
5126.1
4263.7
3588.3
3033.5
2575.1
2189.2
1863.5
1543.9
1103.6
784.0
554.8
398.0
277.4
180.9
96.5
0.0

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