

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: P638734

Luminaire Tested: **EPH-VN-06-E-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44005.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
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



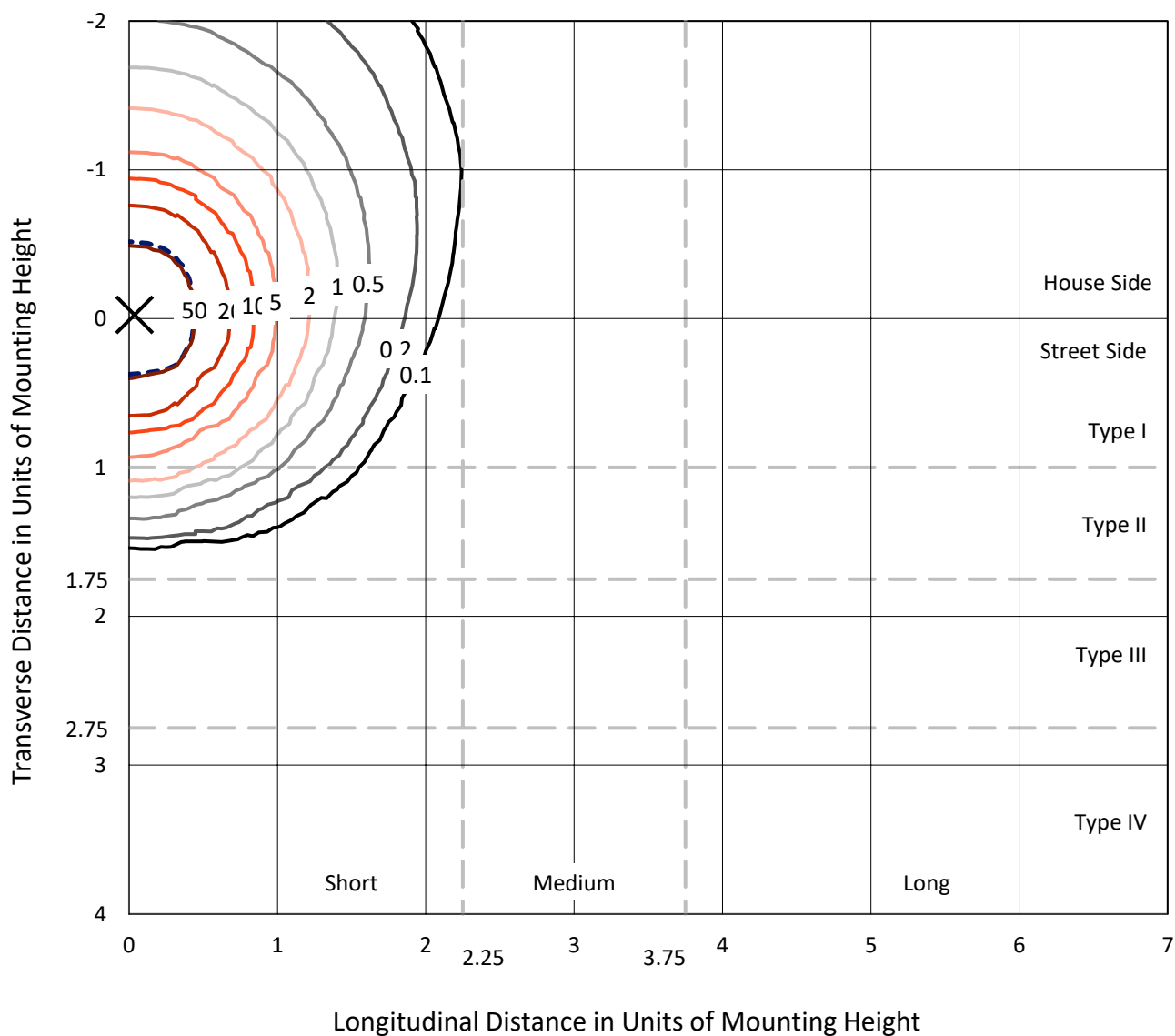
REPORT NUMBER: P638734

CATALOG NUMBER: EPH-VN-06-E-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

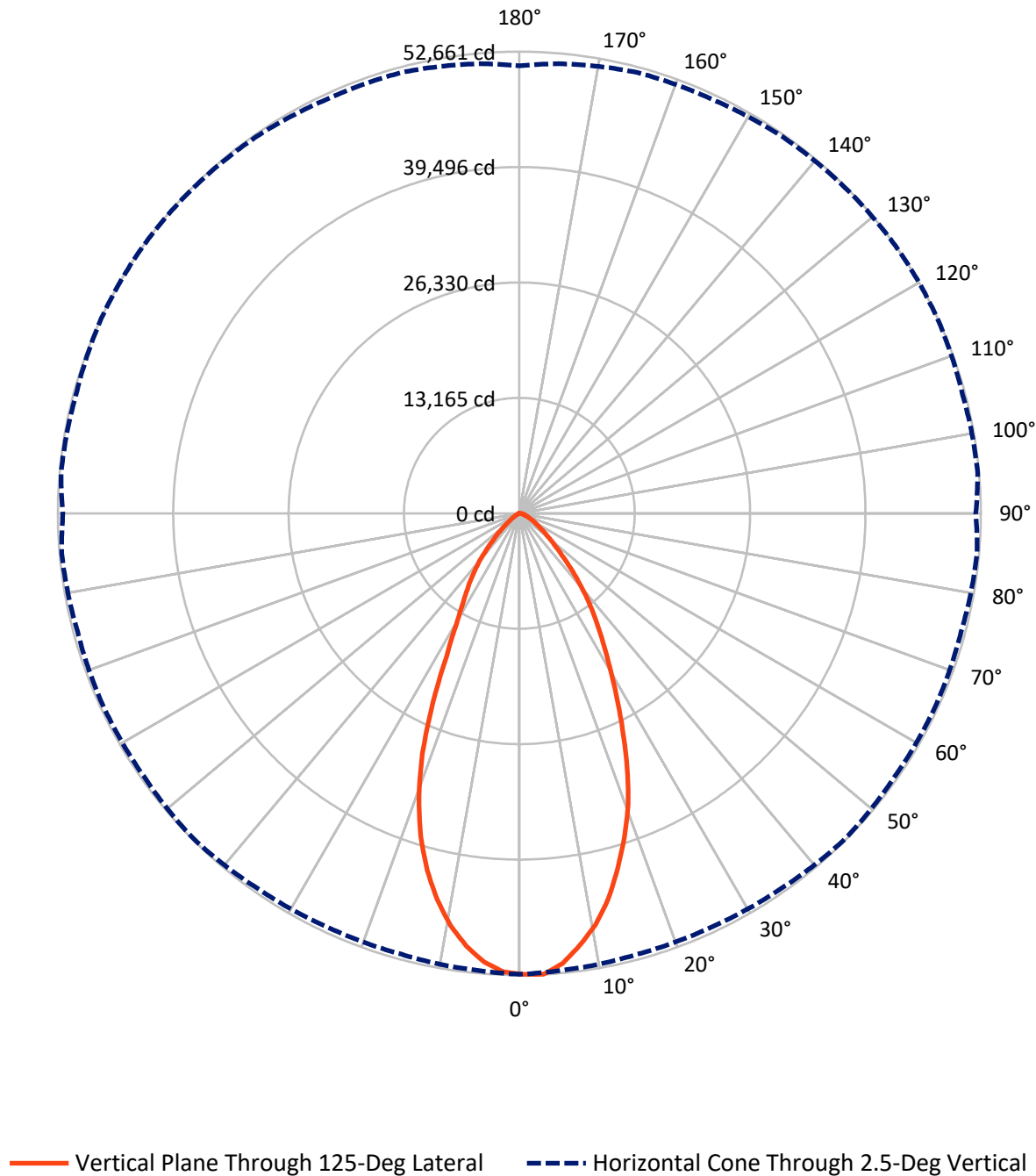


Based on 20 foot mounting height. Maximum calculated value = 131.4 fc

Type I - Short - N/A

REPORT NUMBER: P638734
CATALOG NUMBER: EPH-VN-06-E-735-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638734

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24970.5	0.0	24970.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	19035.1	0.0	19035.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	44005.6	0.0	44005.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4774.1	10.8
10°-20°	11380.4	25.9
20°-30°	11590.7	26.3
30°-40°	8643.2	19.6
40°-50°	4515.4	10.3
50°-60°	1899.2	4.3
60°-70°	775.6	1.8
70°-80°	326.4	0.7
80°-90°	100.6	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°	44005.6	100.0
0°-180°	44005.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638734

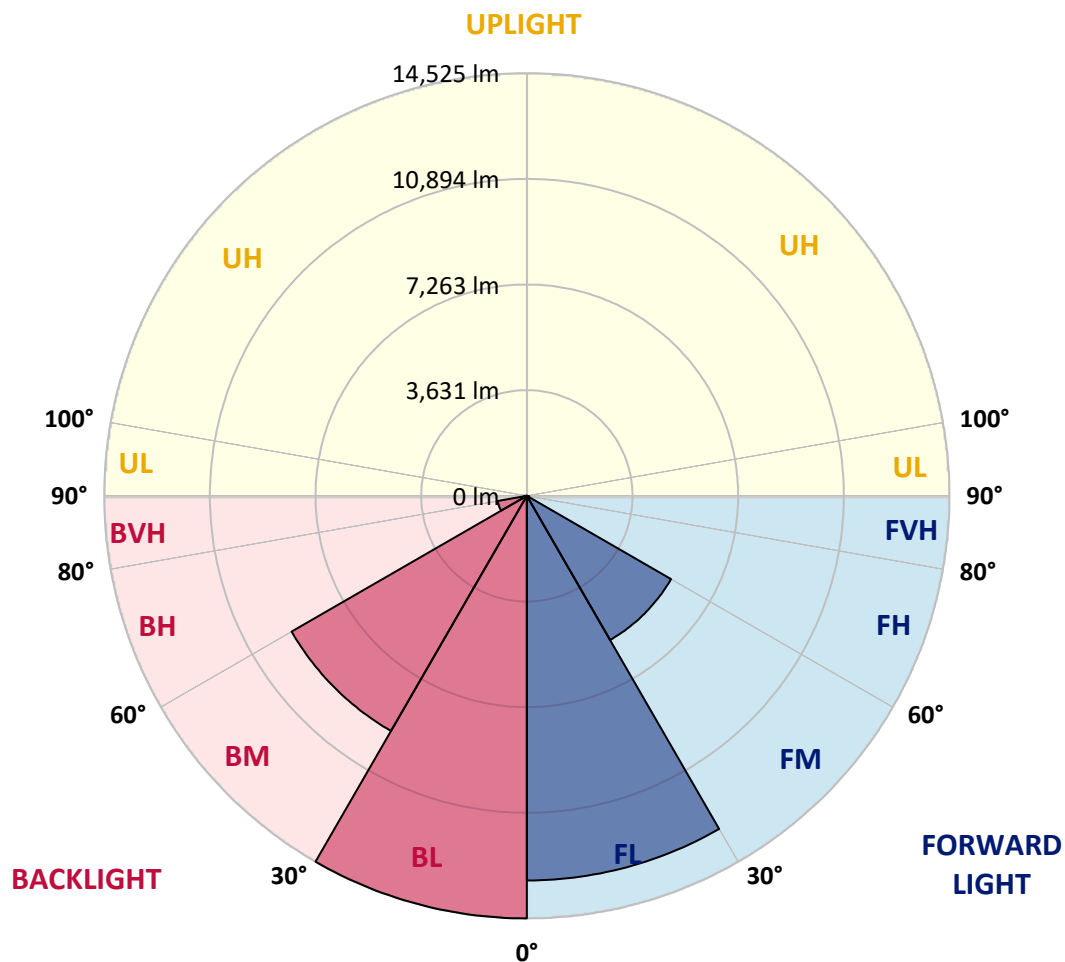
CATALOG NUMBER: EPH-VN-06-E-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13219.8	30.0			
FM	(30°-60°)	5723.1	13.0			
FH	(60°-80°)	82.8	0.2			G0/660
FVH	(80°-90°)	9.4	0.0			G0/10
BL	(0°-30°)	14525.4	33.0	B5		
BM	(30°-60°)	9334.7	21.2	B5		
BH	(60°-80°)	1019.2	2.3	B3/2500		G3/2500
BVH	(80°-90°)	91.2	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-G3

Type I Short



REPORT NUMBER: P638734

CATALOG NUMBER: EPH-VN-06-E-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1
2.5°	52581.7	52366.9	52061.7	52033.4	52191.7	52536.5	52316.0	52327.3	52191.7	52423.4
5°	51756.4	51552.9	51343.8	51066.8	51298.5	51445.5	51332.5	51208.1	51032.9	51259.0
7.5°	50196.3	50083.2	49772.3	49647.9	49789.3	49953.2	49710.1	49676.2	49433.1	49727.1
10°	47810.8	47765.6	47460.3	47386.9	47511.2	47759.9	47652.5	47629.9	47477.3	47449.0
12.5°	45334.9	45159.7	44780.9	44758.3	44944.9	45318.0	45029.7	44752.7	44837.5	44911.0
15°	38958.6	38772.1	39710.4	41185.8	41960.2	41932.0	42016.8	41683.2	41581.5	41615.4
17.5°	30971.3	30654.8	30993.9	33277.6	36957.6	39094.3	38506.4	37788.5	37404.1	37149.8
20°	26731.8	26748.7	26686.5	27274.4	29569.4	34442.1	34300.8	32915.9	32412.8	32203.6
22.5°	24154.1	24058.0	23922.4	24108.9	24725.0	27585.3	29501.6	28229.7	28054.5	27822.7
25°	21627.4	21627.4	21463.4	21650.0	21825.2	21864.8	23786.7	24306.7	23967.6	23967.6
27.5°	19439.7	19326.7	19253.2	19338.0	19106.2	17992.6	18235.7	20898.1	20666.4	20525.1
30°	17269.1	17235.2	17110.8	17223.9	16364.7	15109.8	14601.0	17636.5	17879.6	17828.7
32.5°	14256.2	14391.9	14945.8	15121.1	13651.3	12639.5	12153.4	14640.6	15612.8	15573.3
35°	9688.8	9801.8	10434.9	12526.5	11316.8	10593.2	10451.9	11644.6	13244.4	13397.0
37.5°	7716.0	7699.0	7879.9	8253.0	9095.2	8920.0	8880.4	9191.3	10802.4	10870.2
40°	6359.3	6336.7	6331.1	6025.8	5816.7	7416.4	7309.0	7122.4	8518.7	8654.3
42.5°	5127.0	5149.6	5166.6	4499.6	4194.3	5720.6	5658.4	5466.2	6681.5	6839.8
45°	4024.7	4019.1	4053.0	3352.1	3267.3	3657.3	4228.2	4075.6	5042.2	5211.8
47.5°	2085.9	2159.3	2617.2	2594.6	2634.2	2594.6	3199.4	3159.9	3793.0	4064.3
50°	1401.9	1424.5	1464.1	1469.7	2074.6	1910.6	2170.6	2458.9	2656.8	3075.1
52.5°	1085.3	1102.3	1000.5	938.4	1271.9	1413.2	1424.5	1701.5	1854.1	2278.1
55°	604.8	678.3	729.2	734.9	700.9	1045.8	1040.1	1260.6	1379.3	1661.9
57.5°	79.1	96.1	147.0	474.8	469.2	582.2	729.2	915.7	983.6	1215.3
60°	5.7	11.3	17.0	73.5	310.9	339.2	497.4	570.9	684.0	853.6
62.5°	0.0	0.0	5.7	17.0	62.2	197.8	260.0	299.6	401.3	559.6
65°	0.0	0.0	5.7	11.3	22.6	73.5	101.7	163.9	237.4	344.8
67.5°	0.0	0.0	5.7	11.3	17.0	28.3	45.2	73.5	124.4	209.2
70°	0.0	0.0	5.7	11.3	17.0	22.6	33.9	45.2	67.8	113.1
72.5°	0.0	0.0	5.7	5.7	11.3	28.3	28.3	33.9	45.2	62.2
75°	0.0	0.0	5.7	11.3	17.0	28.3	28.3	28.3	33.9	39.6
77.5°	0.0	0.0	5.7	11.3	17.0	28.3	22.6	28.3	28.3	28.3
80°	0.0	0.0	5.7	11.3	17.0	28.3	33.9	28.3	22.6	22.6
82.5°	0.0	0.0	5.7	17.0	17.0	39.6	39.6	39.6	17.0	17.0
85°	0.0	0.0	11.3	17.0	28.3	45.2	45.2	33.9	17.0	11.3
87.5°	0.0	0.0	5.7	11.3	11.3	22.6	33.9	28.3	11.3	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638734

CATALOG NUMBER: EPH-VN-06-E-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
52576.1	0°	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1	52576.1
52084.3	2.5°	52502.6	52361.3	52626.9	52660.9	52547.8	52406.5	52078.6	52050.4	51479.4
50931.1	5°	51507.7	51275.9	51445.5	51558.6	51519.0	51366.4	51230.7	51106.3	50592.0
49060.1	7.5°	49653.6	49568.8	49647.9	49732.7	49896.7	49732.7	49676.2	49546.2	49037.4
47217.3	10°	47596.0	47437.7	47737.3	47697.8	47652.5	47607.3	47369.9	47392.5	46793.3
44707.5	12.5°	45069.2	44803.6	45091.8	45125.8	45091.8	44933.6	44667.9	44780.9	44232.6
41315.8	15°	41671.9	41643.7	41852.8	41988.5	42084.6	41915.0	41824.6	41881.1	41553.2
36951.9	17.5°	37500.2	37867.7	38551.6	38783.4	38789.0	38964.3	38913.4	38845.6	38602.5
32118.8	20°	32593.7	33300.2	34351.7	35431.3	35742.2	35595.3	35527.4	35651.8	35290.0
27579.7	22.5°	28065.8	28670.7	29891.6	31468.8	32378.8	32469.3	32452.3	32344.9	32203.6
23945.0	25°	24222.0	24759.0	25929.1	27370.5	29117.2	29377.2	29388.6	29354.6	29230.3
20649.4	27.5°	20977.3	21627.4	22271.8	23560.6	25420.3	26494.4	26358.7	26319.1	26273.9
17868.3	30°	18037.9	18857.5	19462.4	20265.0	21932.6	23385.4	23526.7	23458.8	23351.4
15567.6	32.5°	15708.9	16195.1	16963.8	17506.5	18704.9	20349.8	20892.5	20841.6	20745.5
13493.1	35°	13685.3	13877.5	14482.3	15087.1	15884.2	17478.2	18280.9	18167.9	18150.9
10994.6	37.5°	11271.5	11916.0	12249.5	12860.0	13419.6	14657.5	15765.5	15714.6	15720.2
8840.9	40°	9100.9	9474.0	10135.3	10649.7	11164.1	12068.6	13300.9	13334.8	13323.5
6845.5	42.5°	6986.8	7348.6	8043.8	8603.5	9061.3	9620.9	10796.7	10836.3	10887.2
5330.5	45°	5454.9	5686.6	6195.4	6777.6	7263.8	7602.9	8496.1	8750.4	8756.1
4132.1	47.5°	4233.9	4499.6	4861.3	5421.0	5895.8	6138.9	6788.9	7133.7	7116.8
3171.2	50°	3323.8	3566.9	3860.8	4301.7	4816.1	5008.3	5488.8	5828.0	5811.0
2391.1	52.5°	2543.7	2854.6	3114.7	3453.8	3956.9	4120.8	4465.7	4855.7	4799.2
1752.3	55°	1927.6	2244.1	2487.2	2769.8	3227.7	3436.9	3674.3	3985.2	3996.5
1356.7	57.5°	1452.8	1780.6	2001.1	2289.4	2634.2	2865.9	3046.8	3380.3	3374.7
927.0	60°	1040.1	1322.7	1588.4	1888.0	2153.7	2419.4	2543.7	2860.3	2871.6
655.7	62.5°	751.8	1017.5	1271.9	1531.9	1769.3	2029.3	2142.4	2391.1	2425.0
429.6	65°	525.7	712.2	1006.2	1204.0	1469.7	1661.9	1808.9	2023.7	2063.2
254.4	67.5°	339.2	514.4	797.0	972.3	1215.3	1379.3	1531.9	1701.5	1752.3
163.9	70°	203.5	390.0	593.5	780.1	1000.5	1147.5	1294.5	1441.4	1469.7
79.1	72.5°	130.0	271.3	429.6	633.1	802.7	961.0	1091.0	1198.4	1113.6
50.9	75°	73.5	186.5	339.2	497.4	650.1	802.7	910.1	966.6	774.4
33.9	77.5°	45.2	135.7	277.0	401.3	503.1	644.4	712.2	746.2	554.0
22.6	80°	28.3	101.7	231.8	327.9	327.9	474.8	554.0	582.2	401.3
17.0	82.5°	22.6	73.5	180.9	248.7	220.5	356.1	435.3	440.9	282.6
11.3	85°	17.0	56.5	113.1	163.9	152.6	248.7	254.4	282.6	186.5
11.3	87.5°	11.3	33.9	67.8	96.1	84.8	118.7	135.7	152.6	101.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
52576.1
51032.9
50179.3
48930.0
46589.8
44074.4
41157.5
38240.7
35030.0
31932.3
28812.0
26008.2
23215.8
20491.2
17964.4
15539.4
13125.6
10717.6
8609.1
7054.6
5811.0
4804.8
3996.5
3363.4
2843.3
2413.7
2051.9
1746.7
1447.1
1034.4
734.9
520.1
373.1
260.0
169.6
90.4
0.0

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