

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: P638730

Luminaire Tested: **EPH-VN-08-D-730-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638730
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-730-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42804.7 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

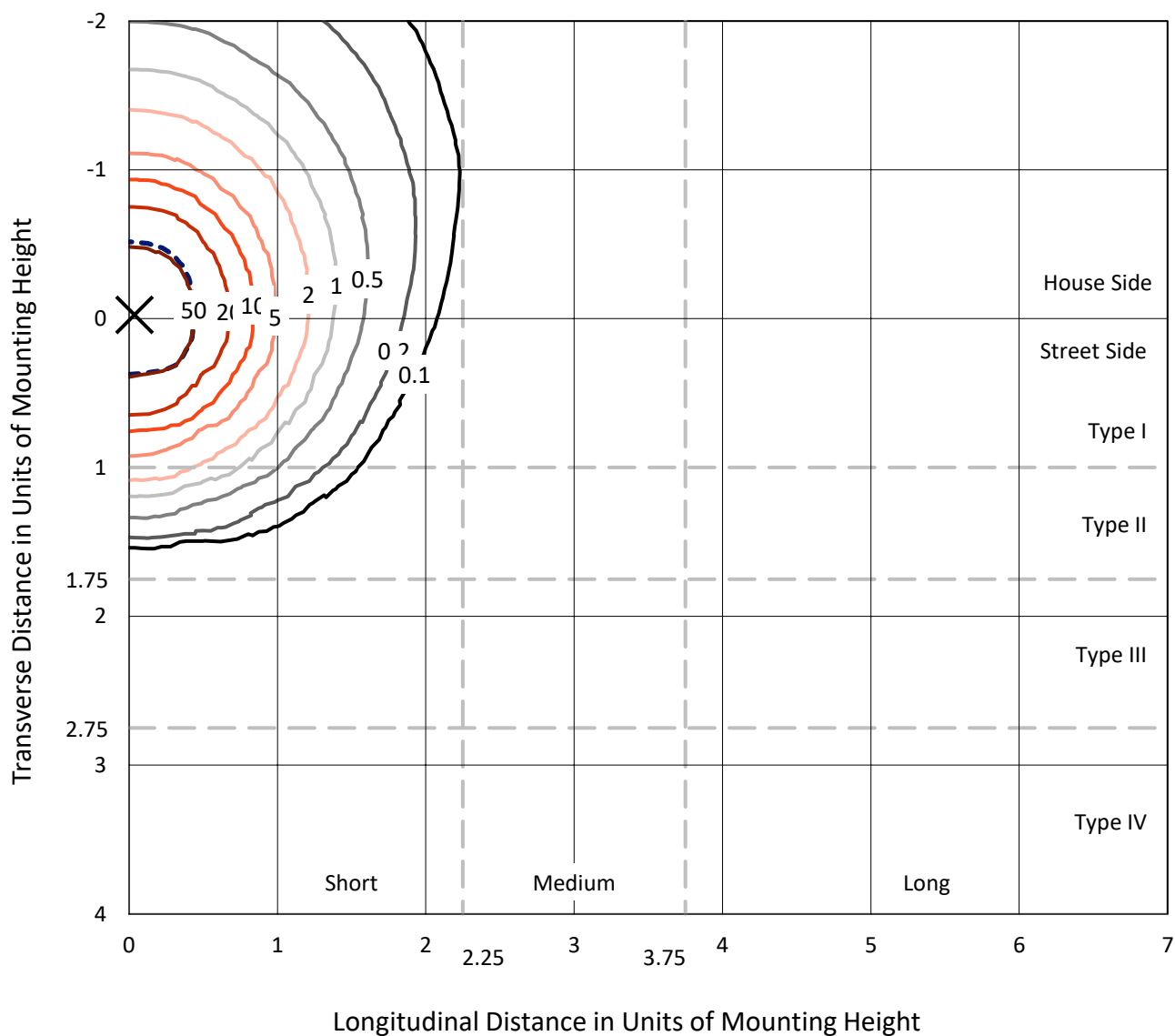
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

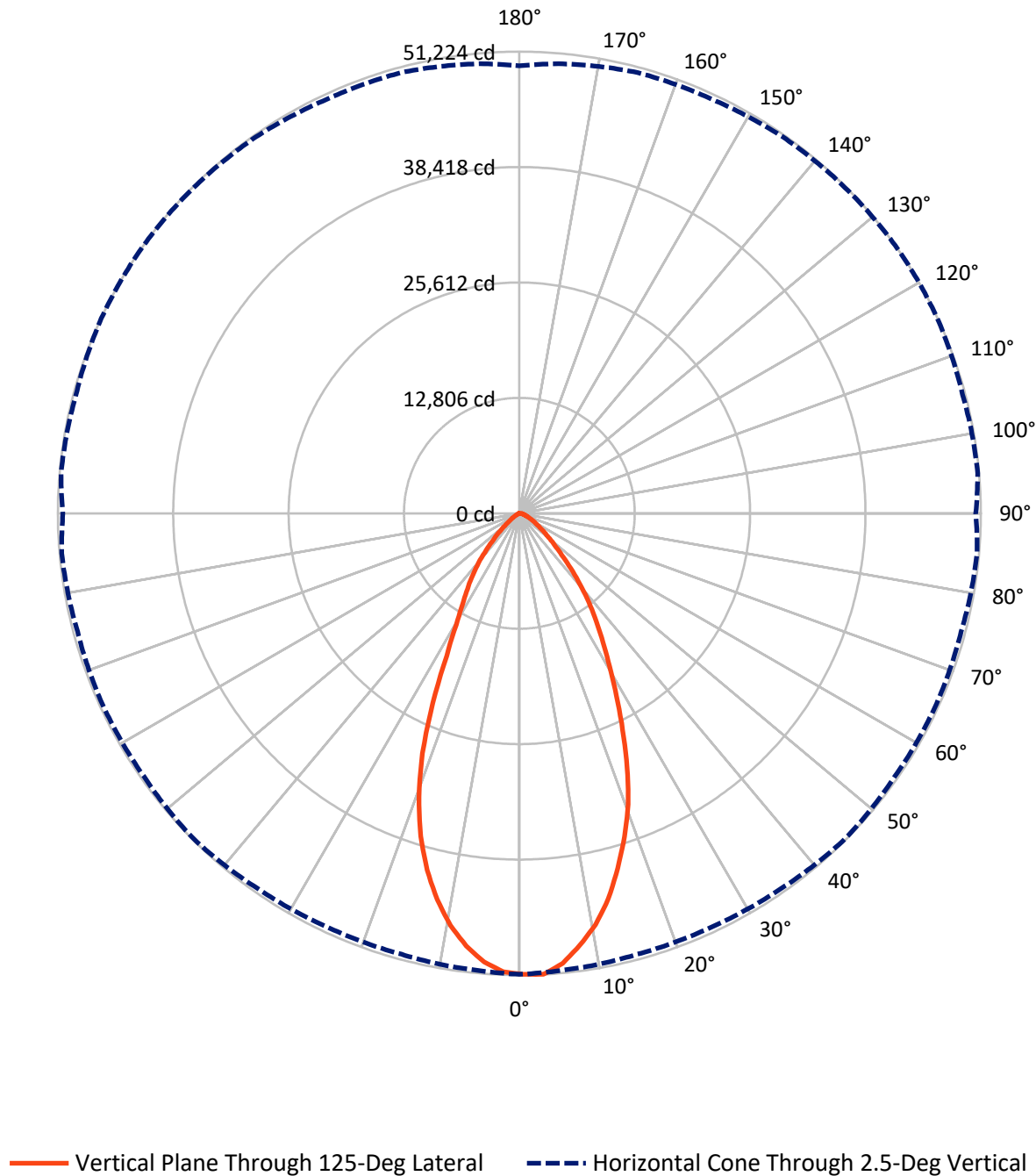
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 127.9 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	24289.1	0.0	24289.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18515.6	0.0	18515.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	42804.7	0.0	42804.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4643.8	10.8
10°-20°	11069.8	25.9
20°-30°	11274.4	26.3
30°-40°	8407.3	19.6
40°-50°	4392.2	10.3
50°-60°	1847.4	4.3
60°-70°	754.5	1.8
70°-80°	317.5	0.7
80°-90°	97.8	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°	42804.7	100.0
0°-180°	42804.7	100.0

Coefficient of Utilization



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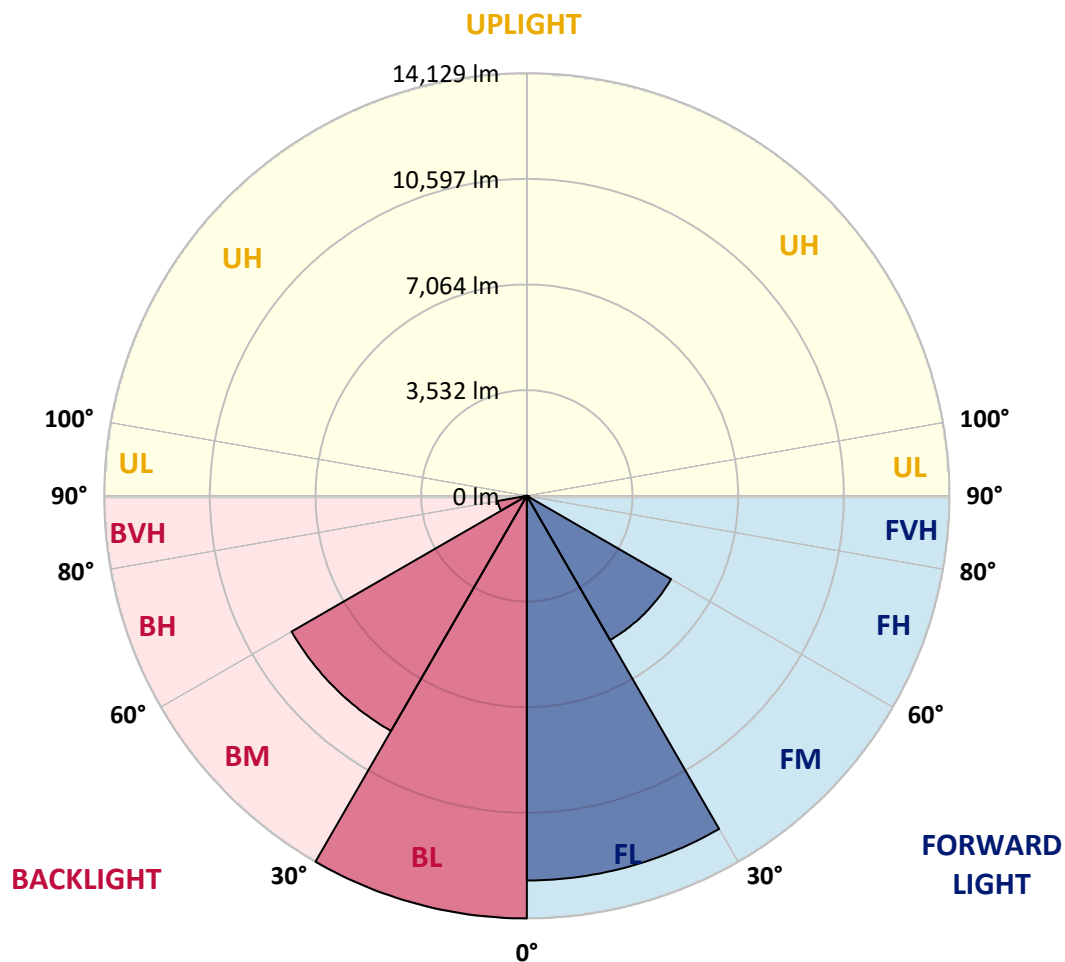
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12859.1	30.0			
FM	(30°-60°)	5566.9	13.0			
FH	(60°-80°)	80.6	0.2			G0/660
FVH	(80°-90°)	9.1	0.0			G0/10
BL	(0°-30°)	14129.0	33.0	B5		
BM	(30°-60°)	9079.9	21.2	B5		
BH	(60°-80°)	991.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	88.7	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°	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2
2.5°	51146.7	50937.8	50640.9	50613.4	50767.3	51102.7	50888.3	50899.3	50767.3	50992.8
5°	50343.9	50146.0	49942.5	49673.1	49898.6	50041.5	49931.6	49810.6	49640.1	49860.1
7.5°	48826.4	48716.4	48414.0	48293.0	48430.5	48589.9	48353.5	48320.5	48084.1	48370.0
10°	46506.0	46462.0	46165.1	46093.6	46214.6	46456.5	46352.1	46330.1	46181.6	46154.1
12.5°	44097.7	43927.2	43558.8	43536.8	43718.3	44081.2	43800.8	43531.3	43613.8	43685.3
15°	37895.4	37714.0	38626.7	40061.8	40815.1	40787.6	40870.1	40545.7	40446.7	40479.7
17.5°	30126.1	29818.2	30148.1	32369.5	35949.0	38027.4	37455.5	36757.2	36383.3	36135.9
20°	26002.2	26018.7	25958.2	26530.1	28762.5	33502.1	33364.7	32017.6	31528.2	31324.8
22.5°	23494.9	23401.5	23269.5	23450.9	24050.3	26832.5	28696.5	27459.3	27288.9	27063.4
25°	21037.1	21037.1	20877.7	21059.1	21229.6	21268.1	23137.5	23643.4	23313.5	23313.5
27.5°	18909.2	18799.2	18727.8	18810.2	18584.8	17501.6	17738.0	20327.8	20102.4	19964.9
30°	16797.8	16764.8	16643.9	16753.8	15918.1	14697.4	14202.5	17155.2	17391.6	17342.2
32.5°	13867.1	13999.1	14537.9	14708.4	13278.8	12294.6	11821.7	14241.0	15186.8	15148.3
35°	9424.4	9534.3	10150.2	12184.6	11007.9	10304.1	10166.7	11326.8	12882.9	13031.4
37.5°	7505.4	7488.9	7664.9	8027.8	8847.0	8676.6	8638.1	8940.5	10507.6	10573.5
40°	6185.8	6163.8	6158.3	5861.4	5657.9	7214.0	7109.5	6928.1	8286.2	8418.1
42.5°	4987.1	5009.1	5025.6	4376.8	4079.9	5564.4	5504.0	5317.0	6499.2	6653.1
45°	3914.9	3909.4	3942.4	3260.6	3178.1	3557.5	4112.9	3964.4	4904.6	5069.6
47.5°	2028.9	2100.4	2545.8	2523.8	2562.3	2523.8	3112.1	3073.6	3689.5	3953.4
50°	1363.6	1385.6	1424.1	1429.6	2017.9	1858.5	2111.4	2391.8	2584.3	2991.2
52.5°	1055.7	1072.2	973.2	912.7	1237.2	1374.6	1385.6	1655.0	1803.5	2215.9
55°	588.3	659.8	709.3	714.8	681.8	1017.2	1011.7	1226.2	1341.6	1616.5
57.5°	77.0	93.5	143.0	461.9	456.4	566.3	709.3	890.8	956.7	1182.2
60°	5.5	11.0	16.5	71.5	302.4	329.9	483.9	555.3	665.3	830.3
62.5°	0.0	0.0	5.5	16.5	60.5	192.4	252.9	291.4	390.4	544.3
65°	0.0	0.0	5.5	11.0	22.0	71.5	99.0	159.5	230.9	335.4
67.5°	0.0	0.0	5.5	11.0	16.5	27.5	44.0	71.5	121.0	203.4
70°	0.0	0.0	5.5	11.0	16.5	22.0	33.0	44.0	66.0	110.0
72.5°	0.0	0.0	5.5	5.5	11.0	27.5	27.5	33.0	44.0	60.5
75°	0.0	0.0	5.5	11.0	16.5	27.5	27.5	27.5	33.0	38.5
77.5°	0.0	0.0	5.5	11.0	16.5	27.5	22.0	27.5	27.5	27.5
80°	0.0	0.0	5.5	11.0	16.5	27.5	33.0	27.5	22.0	22.0
82.5°	0.0	0.0	5.5	16.5	16.5	38.5	38.5	38.5	16.5	16.5
85°	0.0	0.0	11.0	16.5	27.5	44.0	44.0	33.0	16.5	11.0
87.5°	0.0	0.0	5.5	11.0	11.0	22.0	33.0	27.5	11.0	5.5
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°
51141.2	0°	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2	51141.2
50662.8	2.5°	51069.7	50932.3	51190.7	51223.7	51113.7	50976.3	50657.3	50629.9	50074.5
49541.2	5°	50102.0	49876.6	50041.5	50151.5	50113.0	49964.5	49832.6	49711.6	49211.3
47721.2	7.5°	48298.5	48216.0	48293.0	48375.5	48534.9	48375.5	48320.5	48194.0	47699.2
45928.7	10°	46297.1	46143.1	46434.5	46396.0	46352.1	46308.1	46077.1	46099.1	45516.3
43487.4	12.5°	43839.3	43580.8	43861.2	43894.2	43861.2	43707.3	43448.9	43558.8	43025.5
40188.3	15°	40534.7	40507.2	40710.6	40842.6	40936.1	40771.1	40683.1	40738.1	40419.2
35943.5	17.5°	36476.8	36834.2	37499.5	37725.0	37730.5	37900.9	37851.4	37785.4	37549.0
31242.3	20°	31704.1	32391.5	33414.2	34464.4	34766.8	34623.8	34557.8	34678.8	34326.9
26827.0	22.5°	27299.9	27888.2	29075.9	30609.9	31495.2	31583.2	31566.7	31462.2	31324.8
23291.5	25°	23560.9	24083.3	25221.5	26623.6	28322.6	28575.5	28586.5	28553.5	28432.6
20085.9	27.5°	20404.8	21037.1	21663.9	22917.6	24726.6	25771.3	25639.3	25600.8	25556.9
17380.6	30°	17545.6	18342.9	18931.2	19712.0	21334.0	22747.1	22884.6	22818.6	22714.2
15142.8	32.5°	15280.2	15753.1	16500.9	17028.7	18194.4	19794.5	20322.3	20272.8	20179.4
13124.8	35°	13311.8	13498.7	14087.1	14675.4	15450.7	17001.3	17782.0	17672.1	17655.6
10694.5	37.5°	10963.9	11590.8	11915.2	12509.0	13053.4	14257.5	15335.2	15285.7	15291.2
8599.6	40°	8852.5	9215.4	9858.7	10359.1	10859.5	11739.2	12937.9	12970.9	12959.9
6658.6	42.5°	6796.1	7148.0	7824.3	8368.7	8814.0	9358.4	10502.1	10540.6	10590.0
5185.1	45°	5306.0	5531.5	6026.3	6592.7	7065.5	7395.4	8264.2	8511.6	8517.1
4019.4	47.5°	4118.3	4376.8	4728.7	5273.0	5734.9	5971.3	6603.7	6939.1	6922.6
3084.6	50°	3233.1	3469.5	3755.5	4184.3	4684.7	4871.6	5339.0	5668.9	5652.4
2325.9	52.5°	2474.3	2776.7	3029.7	3359.6	3848.9	4008.4	4343.8	4723.2	4668.2
1704.5	55°	1875.0	2182.9	2419.3	2694.2	3139.6	3343.1	3574.0	3876.4	3887.4
1319.6	57.5°	1413.1	1732.0	1946.5	2226.9	2562.3	2787.7	2963.7	3288.1	3282.6
901.7	60°	1011.7	1286.6	1545.1	1836.5	2094.9	2353.3	2474.3	2782.2	2793.2
637.8	62.5°	731.3	989.7	1237.2	1490.1	1721.0	1973.9	2083.9	2325.9	2358.8
417.9	65°	511.4	692.8	978.7	1171.2	1429.6	1616.5	1759.5	1968.5	2006.9
247.4	67.5°	329.9	500.4	775.3	945.7	1182.2	1341.6	1490.1	1655.0	1704.5
159.5	70°	197.9	379.4	577.3	758.8	973.2	1116.2	1259.1	1402.1	1429.6
77.0	72.5°	126.5	263.9	417.9	615.8	780.8	934.7	1061.2	1165.7	1083.2
49.5	75°	71.5	181.4	329.9	483.9	632.3	780.8	885.3	940.2	753.3
33.0	77.5°	44.0	132.0	269.4	390.4	489.4	626.8	692.8	725.8	538.8
22.0	80°	27.5	99.0	225.4	318.9	318.9	461.9	538.8	566.3	390.4
16.5	82.5°	22.0	71.5	176.0	241.9	214.4	346.4	423.4	428.9	274.9
11.0	85°	16.5	55.0	110.0	159.5	148.5	241.9	247.4	274.9	181.4
11.0	87.5°	11.0	33.0	66.0	93.5	82.5	115.5	132.0	148.5	99.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
51141.2
49640.1
48809.9
47594.7
45318.3
42871.5
40034.3
37197.1
34074.0
31060.8
28025.7
25298.4
22582.2
19931.9
17474.1
15115.3
12767.4
10425.1
8374.2
6862.1
5652.4
4673.7
3887.4
3271.6
2765.7
2347.8
1995.9
1699.0
1407.6
1006.2
714.8
505.9
362.9
252.9
165.0
88.0
0.0

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