

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: STREETWORKS

Report Number: P637523

Luminaire Tested: **IFLD-S-SA2D-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10821.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 123.9
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



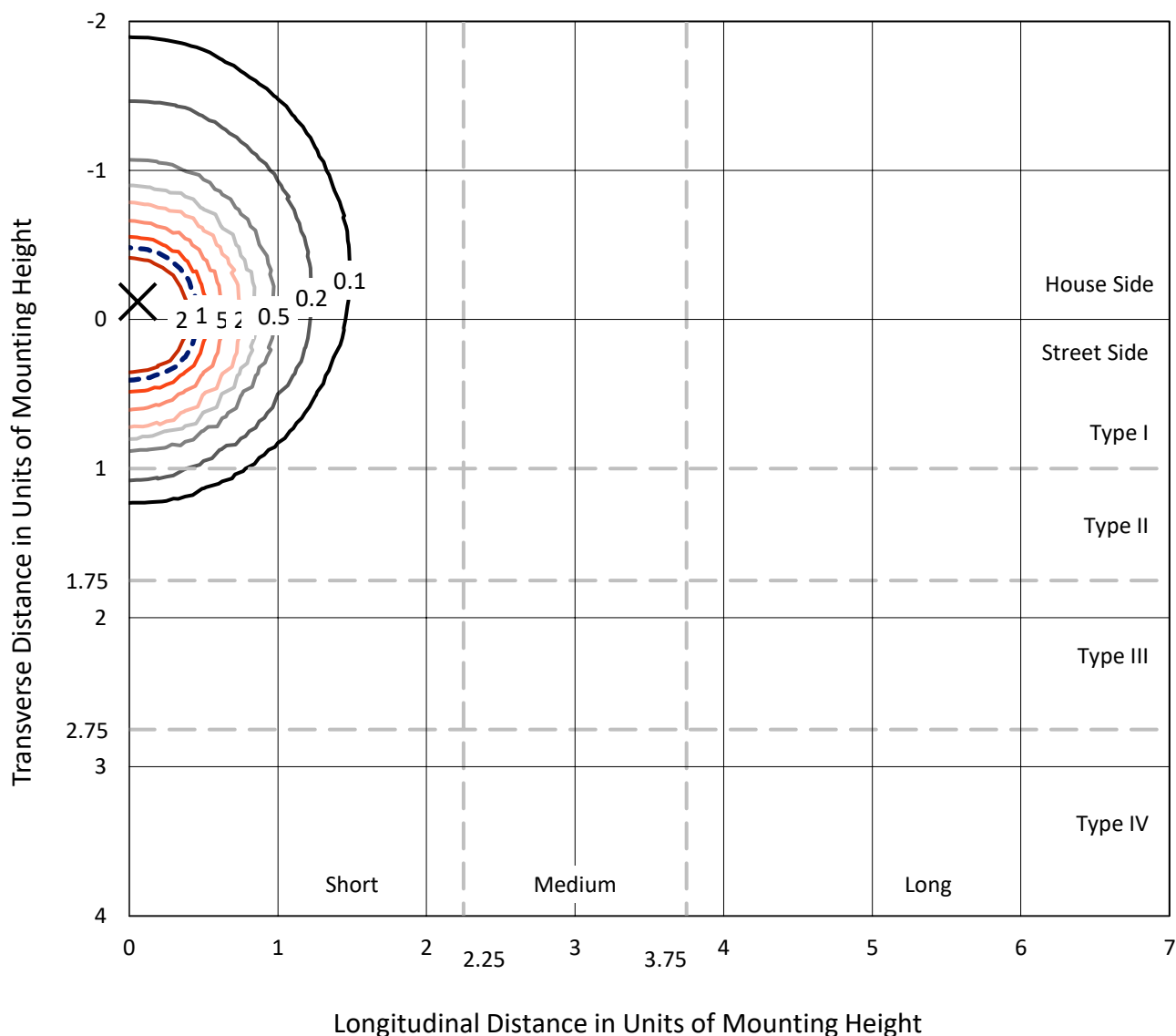
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

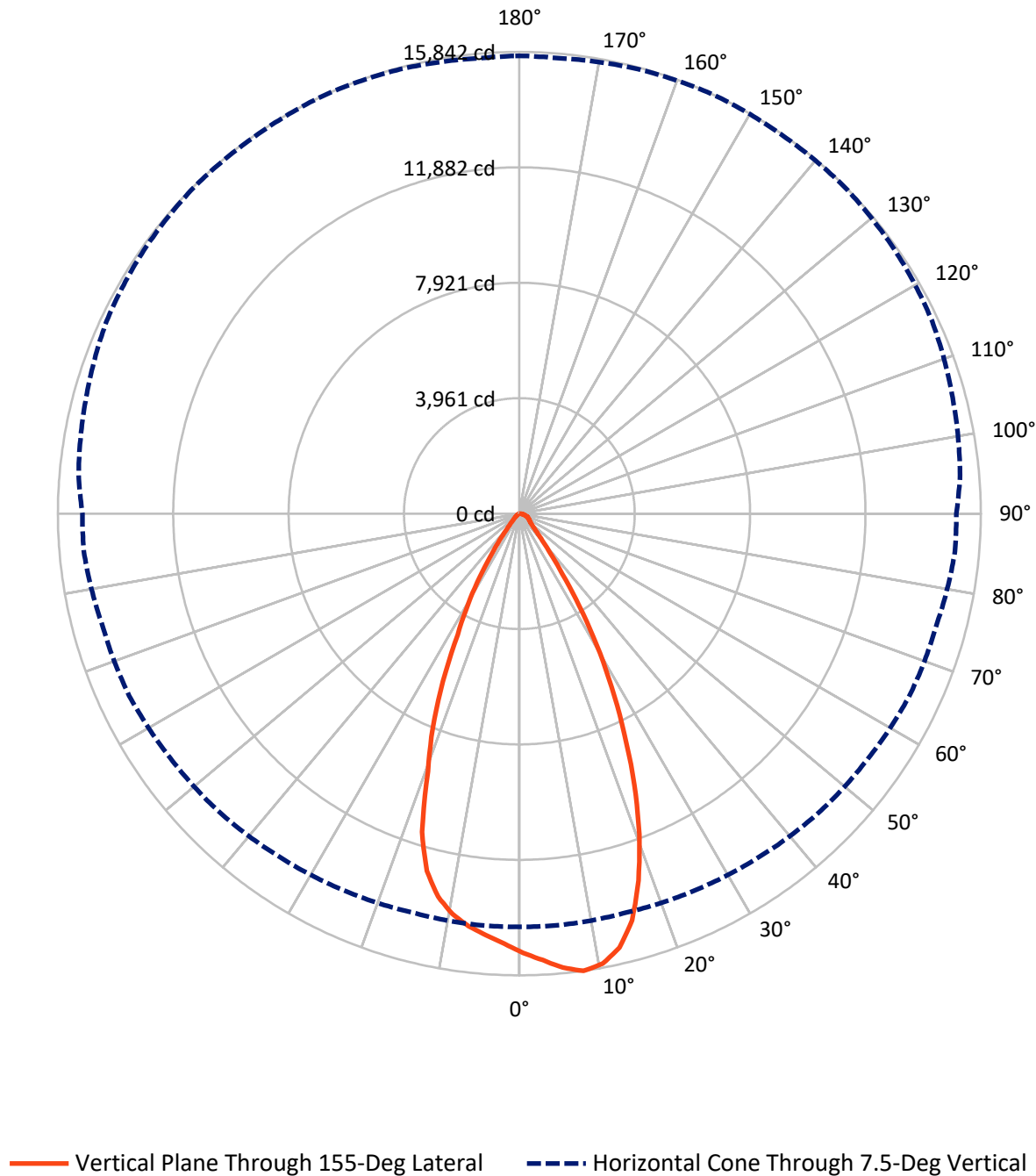


Based on 20 foot mounting height. Maximum calculated value = 38.3 fc

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	5973.7	0.0	5973.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4847.5	0.0	4847.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	10821.3	0.0	10821.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.5	13.3
10°-20°	3727.4	34.4
20°-30°	3415.4	31.6
30°-40°	1379.8	12.8
40°-50°	404.8	3.7
50°-60°	226.3	2.1
60°-70°	137.4	1.3
70°-80°	69.8	0.6
80°-90°	22.8	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°	10821.3	100.0
0°-180°	10821.3	100.0

Coefficient of Utilization



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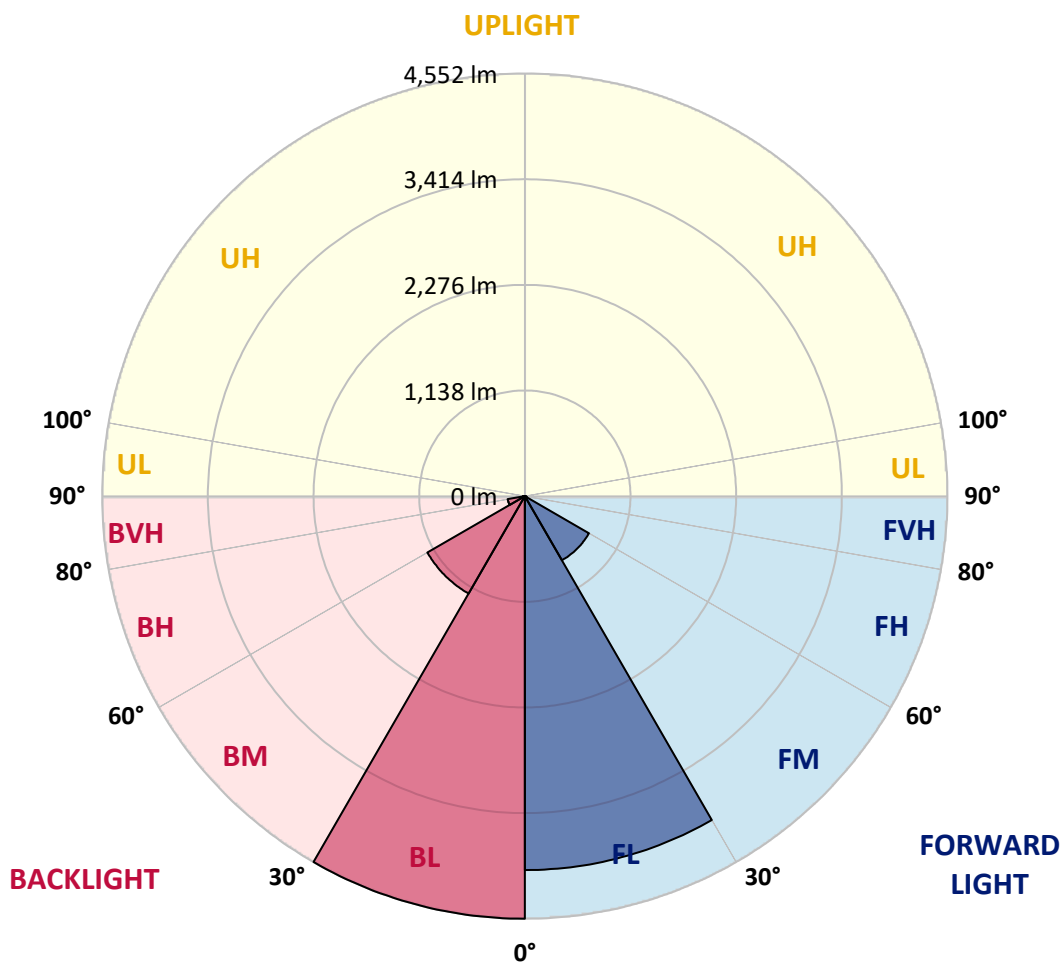
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4028.0	37.2			
FM	(30°-60°)	798.3	7.4			
FH	(60°-80°)	19.3	0.2			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	4552.3	42.1	B4/5000		
BM	(30°-60°)	1212.6	11.2	B2/2500		
BH	(60°-80°)	188.0	1.7	B1/500		G1/500
BVH	(80°-90°)	20.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9
2.5°	14748.0	14797.9	14698.0	14764.2	14815.3	14937.6	14947.6	14990.0	15005.0	15116.1
5°	14468.4	14507.1	14426.0	14514.6	14587.0	14695.5	14779.2	14896.4	14961.3	15092.4
7.5°	14177.7	14186.4	14170.2	14263.8	14372.4	14522.1	14625.7	14779.2	14819.1	15006.3
10°	13825.8	13762.2	13793.4	13930.6	14092.9	14322.5	14393.6	14547.1	14618.2	14809.1
12.5°	13264.3	13296.7	13258.1	13432.8	13567.5	13828.3	13903.2	14057.9	14193.9	14362.4
15°	12473.2	12454.5	12533.1	12669.1	12815.1	13022.2	13143.3	13311.7	13415.3	13590.0
17.5°	10695.0	10758.7	11083.1	11423.8	11723.2	11965.3	12110.1	12249.8	12324.7	12514.4
20°	9236.3	9156.5	9200.2	9392.3	10244.6	10615.2	10767.4	10801.1	10832.3	10982.0
22.5°	7605.4	7579.2	7725.2	7941.1	8143.3	8998.0	9205.2	9126.5	9191.4	9332.4
25°	5647.6	5779.9	5909.7	6323.9	6586.0	7005.2	7398.3	7433.3	7457.0	7545.6
27.5°	4597.0	4550.8	4548.3	4664.3	5051.2	5400.6	5735.0	5812.3	5798.6	5883.5
30°	3613.7	3598.7	3546.3	3573.7	3535.1	3845.8	4003.0	4321.2	4303.7	4306.2
32.5°	2606.7	2550.5	2529.3	2570.5	2530.6	2501.9	2639.1	2998.5	2992.3	3017.2
35°	1577.2	1569.8	1587.2	1623.4	1543.6	1541.1	1569.8	1907.9	1949.1	1989.0
37.5°	871.0	863.5	877.2	1010.7	984.5	960.8	968.3	1146.7	1265.3	1295.2
40°	574.0	572.7	582.7	606.4	651.4	642.6	646.4	726.2	838.5	864.7
42.5°	384.3	385.6	391.8	419.3	425.5	470.4	462.9	481.7	586.5	608.9
45°	307.0	305.7	309.5	297.0	304.5	350.6	355.6	356.9	446.7	460.4
47.5°	242.1	242.1	245.8	229.6	225.9	254.6	280.8	284.5	356.9	375.6
50°	169.7	169.7	188.4	180.9	189.7	198.4	227.1	230.8	292.0	312.0
52.5°	124.8	127.3	129.8	131.0	159.7	158.5	183.4	200.9	220.9	255.8
55°	94.8	97.3	91.1	97.3	118.5	132.3	137.3	162.2	175.9	214.6
57.5°	62.4	68.6	63.6	74.9	79.9	102.3	109.8	133.5	142.3	175.9
60°	8.7	10.0	16.2	52.4	56.2	67.4	84.9	106.1	114.8	143.5
62.5°	1.2	1.2	3.7	8.7	37.4	44.9	63.6	73.6	84.9	107.3
65°	0.0	0.0	1.2	2.5	7.5	26.2	32.4	39.9	58.6	77.4
67.5°	0.0	0.0	1.2	2.5	3.7	8.7	13.7	26.2	33.7	53.7
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	20.0	31.2
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	7.5	8.7	20.0
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	7.5	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	5.0	7.5	8.7	7.5	6.2	6.2
80°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	7.5	5.0	3.7
82.5°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	8.7	5.0	3.7
85°	0.0	0.0	1.2	3.7	5.0	6.2	10.0	8.7	5.0	2.5
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	5.0	3.7	2.5	1.2
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°
15074.9	0°	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9	15074.9
15113.6	2.5°	15225.9	15282.0	15380.6	15408.1	15492.9	15395.6	15341.9	15346.9	15230.9
15076.1	5°	15225.9	15354.4	15526.6	15609.0	15671.3	15666.4	15652.6	15617.7	15532.8
15001.3	7.5°	15185.9	15395.6	15632.7	15742.5	15817.3	15811.1	15842.3	15786.1	15682.6
14867.7	10°	15057.4	15239.6	15531.6	15621.4	15742.5	15745.0	15706.3	15717.5	15532.8
14379.9	12.5°	14653.1	14795.4	15051.2	15153.5	15300.7	15324.4	15282.0	15265.8	15091.1
13580.0	15°	13870.7	13953.1	14210.1	14312.5	14458.5	14438.5	14480.9	14463.5	14310.0
12499.4	17.5°	12726.5	12752.7	13022.2	13108.3	13245.6	13299.2	13235.6	13316.7	13184.4
11008.2	20°	11085.6	11226.6	11529.8	11662.1	11742.0	11838.0	11754.4	11845.5	11690.8
9198.9	22.5°	9421.0	9504.6	9779.1	9970.1	10118.6	10137.3	10106.1	10169.7	9961.3
7604.2	25°	7603.0	7741.5	7958.6	8208.1	8354.1	8444.0	8362.9	8404.1	8370.4
5897.2	27.5°	5997.0	6120.5	6284.0	6469.9	6689.6	6806.8	6742.0	6811.8	6647.1
4397.3	30°	4401.1	4463.4	4648.1	4845.3	5086.1	5228.4	5234.6	5305.7	5208.4
3080.9	32.5°	3103.3	3158.2	3271.8	3402.8	3632.4	3790.9	3765.9	3775.9	3716.0
2007.7	35°	2017.7	2091.3	2172.5	2234.8	2373.3	2548.0	2534.3	2521.8	2480.7
1320.2	37.5°	1348.9	1377.6	1422.5	1478.7	1568.5	1678.3	1714.5	1669.6	1652.1
890.9	40°	912.2	962.1	992.0	1034.4	1076.9	1169.2	1194.2	1185.4	1168.0
623.9	42.5°	647.6	686.3	723.7	764.9	787.4	844.8	893.4	879.7	872.2
474.2	45°	491.6	526.6	570.3	601.4	623.9	657.6	703.8	708.8	697.5
380.6	47.5°	394.3	425.5	460.4	499.1	525.3	546.5	586.5	601.4	594.0
320.7	50°	334.4	358.1	391.8	430.5	459.2	477.9	512.9	529.1	524.1
268.3	52.5°	284.5	313.2	344.4	376.8	411.8	430.5	462.9	486.6	482.9
222.1	55°	235.8	273.3	305.7	338.2	378.1	396.8	425.5	456.7	450.5
188.4	57.5°	205.9	237.1	270.8	302.0	344.4	369.4	395.6	428.0	426.8
154.7	60°	172.2	203.4	240.8	267.0	312.0	346.9	370.6	404.3	406.8
117.3	62.5°	137.3	175.9	204.6	240.8	282.0	323.2	345.6	379.3	391.8
89.8	65°	102.3	144.7	177.2	213.4	252.1	298.2	318.2	351.9	364.4
64.9	67.5°	76.1	108.6	149.7	180.9	224.6	264.5	288.2	319.4	328.2
38.7	70°	57.4	83.6	124.8	152.2	197.2	229.6	253.3	277.0	288.2
26.2	72.5°	33.7	62.4	98.6	131.0	169.7	197.2	214.6	233.3	240.8
12.5	75°	23.7	47.4	77.4	108.6	137.3	159.7	175.9	192.2	199.7
6.2	77.5°	12.5	34.9	61.1	87.3	107.3	126.0	142.3	154.7	159.7
5.0	80°	7.5	25.0	49.9	68.6	82.4	98.6	114.8	123.5	122.3
3.7	82.5°	5.0	20.0	36.2	49.9	59.9	72.4	83.6	89.8	89.8
2.5	85°	3.7	13.7	25.0	38.7	39.9	49.9	52.4	58.6	59.9
2.5	87.5°	2.5	8.7	13.7	22.5	21.2	26.2	27.5	31.2	33.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15074.9
15137.3
15560.3
15706.3
15479.2
15051.2
14358.6
13152.0
11678.3
9932.6
8349.1
6689.6
5225.9
3749.7
2444.5
1648.4
1170.5
866.0
696.3
590.2
522.8
480.4
450.5
425.5
406.8
390.6
363.1
328.2
285.8
238.3
197.2
158.5
121.0
88.6
58.6
32.4
0.0

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