

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: P636510

Luminaire Tested: **IFLD-S-SA3A-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8226.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 94.8
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



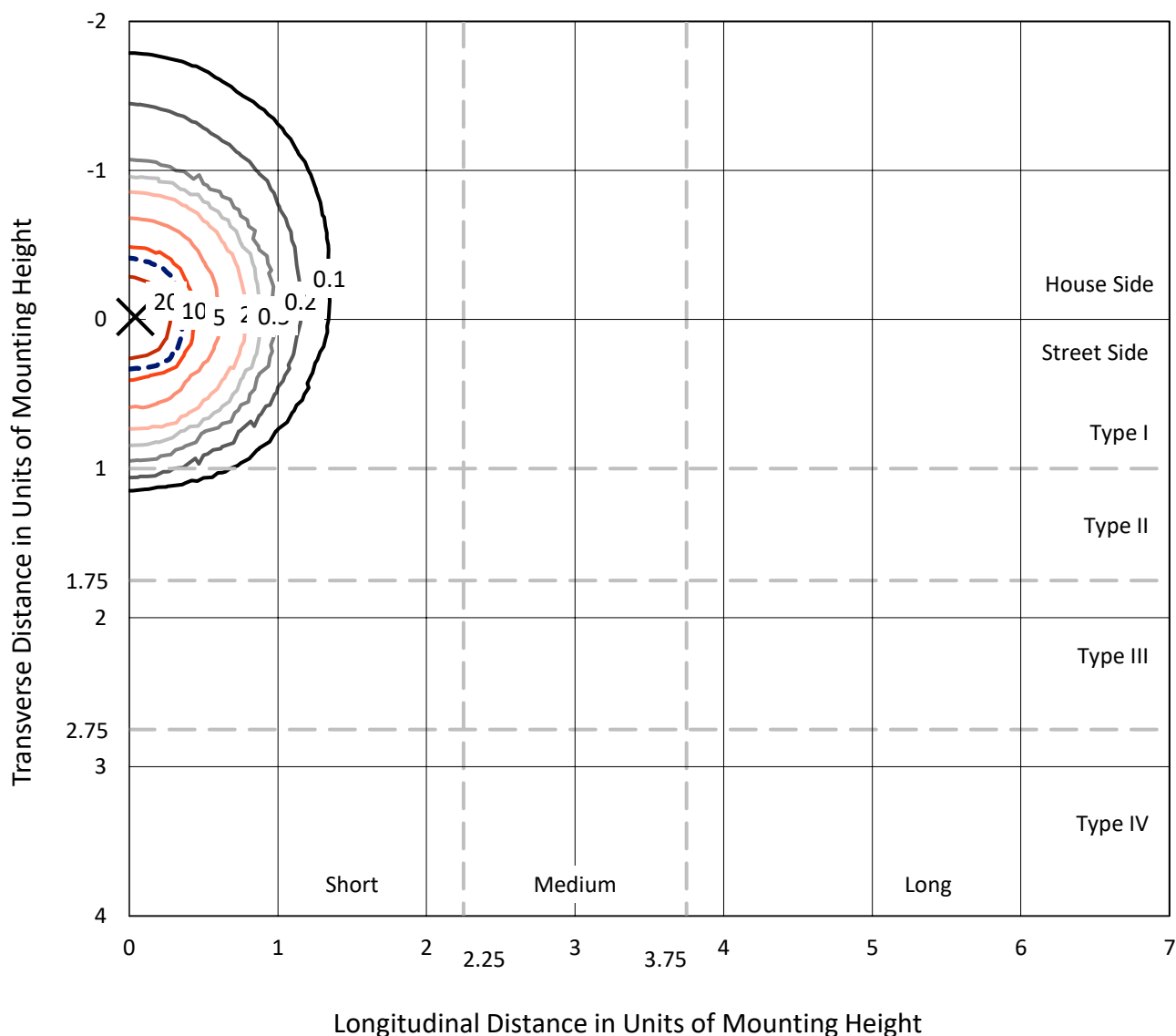
REPORT NUMBER: P636510

CATALOG NUMBER: IFLD-S-SA3A-940-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

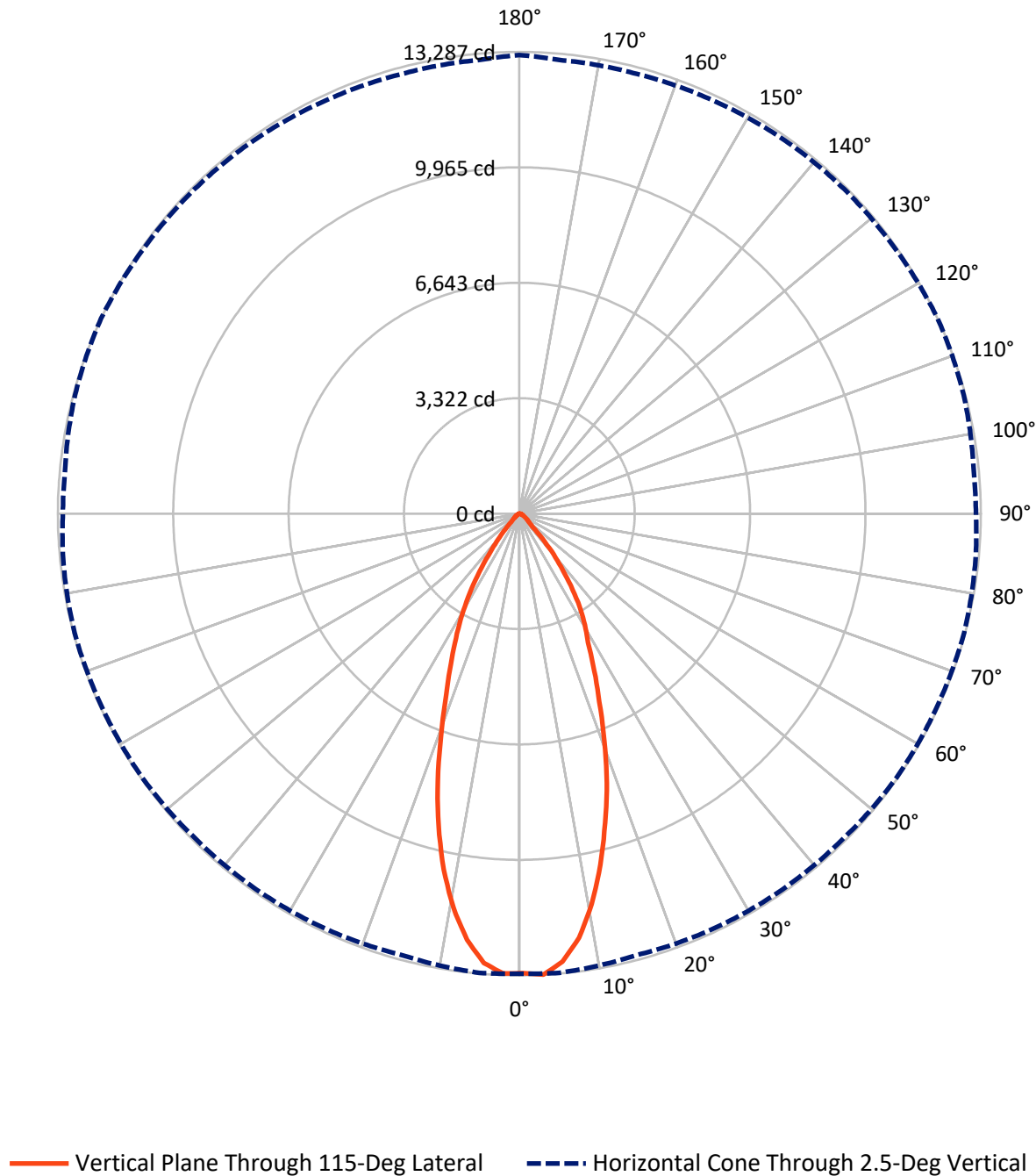


Based on 20 foot mounting height. Maximum calculated value = 33.1 fc

Type I - Short - N/A

REPORT NUMBER: P636510
CATALOG NUMBER: IFLD-S-SA3A-940-U-55-VI

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4540.2	0.0	4540.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3686.6	0.0	3686.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	8226.8	0.0	8226.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1186.1	14.4
10°-20°	2506.9	30.5
20°-30°	2262.6	27.5
30°-40°	1497.3	18.2
40°-50°	448.5	5.5
50°-60°	179.9	2.2
60°-70°	93.2	1.1
70°-80°	40.4	0.5
80°-90°	11.8	0.1
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°	8226.8	100.0
0°-180°	8226.8	100.0

Coefficient of Utilization



REPORT NUMBER: P636510

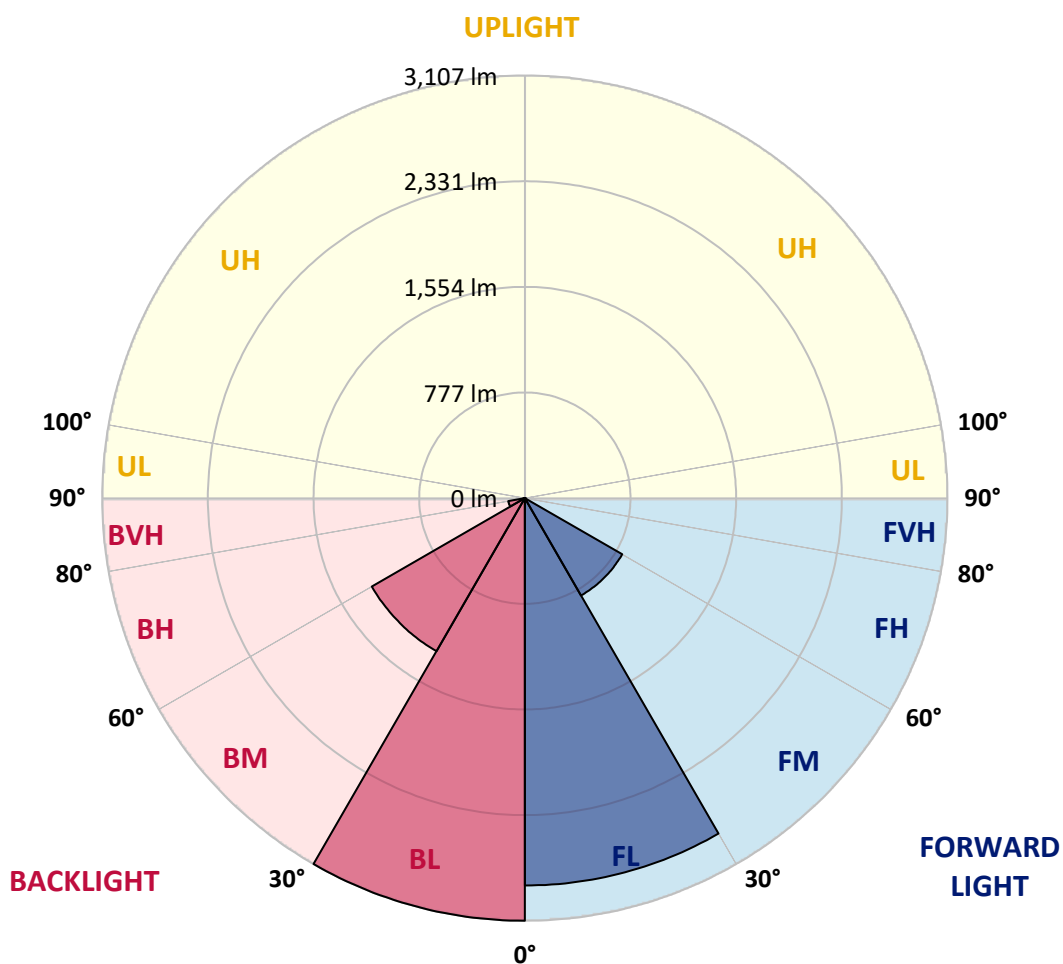
CATALOG NUMBER: IFLD-S-SA3A-940-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2848.2	34.6			
FM	(30°-60°)	826.5	10.0			
FH	(60°-80°)	10.2	0.1			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	3107.5	37.8	B4/5000		
BM	(30°-60°)	1299.3	15.8	B2/2500		
BH	(60°-80°)	123.4	1.5	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			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



REPORT NUMBER: P636510

CATALOG NUMBER: IFLD-S-SA3A-940-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5
2.5°	13241.4	13264.9	13147.1	13187.5	13204.3	13209.4	13251.5	13244.7	13256.5	13194.3
5°	13066.4	13021.0	12933.5	12935.1	12930.1	12883.0	12978.9	12972.2	12952.0	12877.9
7.5°	12470.8	12536.4	12371.5	12368.1	12364.8	12307.6	12433.8	12356.4	12373.2	12267.2
10°	11599.2	11607.6	11461.3	11447.8	11459.6	11385.6	11531.9	11501.6	11533.6	11422.6
12.5°	10530.8	10577.9	10416.4	10392.9	10440.0	10335.7	10453.4	10468.6	10421.5	10406.3
15°	8259.4	8384.0	8690.2	9157.9	9279.1	9191.6	9285.8	9284.1	9304.3	9189.9
17.5°	6292.6	6304.4	6232.0	6455.8	7751.3	8172.0	8192.1	8032.3	7911.2	7869.1
20°	5493.4	5533.8	5468.2	5486.7	5693.6	6926.9	6974.0	6733.4	6526.5	6509.6
22.5°	4857.4	4882.6	4835.5	4850.7	4860.8	5005.5	5824.9	5612.9	5513.6	5437.9
25°	4319.0	4319.0	4293.8	4298.8	4288.7	4075.0	4495.7	4738.0	4680.7	4653.8
27.5°	3827.7	3834.4	3802.5	3821.0	3698.2	3353.2	3302.8	4017.8	3957.3	3908.5
30°	3361.7	3383.5	3353.2	3363.3	3095.8	2813.2	2668.5	3351.6	3427.3	3413.8
32.5°	2530.5	2629.8	2873.7	2883.8	2520.4	2303.4	2239.4	2690.3	2978.0	2952.8
35°	1568.1	1563.1	1573.1	2057.7	1933.2	1785.1	1808.7	2032.5	2357.2	2345.4
37.5°	1196.3	1194.6	1213.1	1164.3	1266.9	1354.4	1372.9	1372.9	1721.2	1722.9
40°	906.9	900.1	898.5	821.1	688.1	1016.2	986.0	960.7	1196.3	1221.5
42.5°	578.8	599.0	583.8	499.7	449.2	555.2	619.2	599.0	738.6	757.1
45°	323.0	323.0	309.6	262.5	260.8	281.0	353.3	329.8	378.6	403.8
47.5°	156.5	153.1	168.3	206.9	215.4	208.6	252.4	262.5	286.0	309.6
50°	126.2	126.2	119.5	107.7	178.3	171.6	186.8	200.2	213.7	233.9
52.5°	106.0	106.0	97.6	90.9	102.6	131.2	132.9	158.2	156.5	185.1
55°	53.8	55.5	79.1	79.1	69.0	107.7	109.4	127.9	131.2	154.8
57.5°	5.0	6.7	10.1	48.8	53.8	58.9	82.4	94.2	109.4	119.5
60°	1.7	1.7	3.4	6.7	32.0	40.4	52.2	62.3	75.7	99.3
62.5°	0.0	0.0	1.7	3.4	6.7	25.2	28.6	32.0	45.4	62.3
65°	0.0	0.0	1.7	1.7	3.4	8.4	11.8	20.2	28.6	38.7
67.5°	0.0	0.0	1.7	1.7	3.4	5.0	6.7	10.1	13.5	25.2
70°	0.0	0.0	1.7	1.7	3.4	5.0	5.0	6.7	8.4	11.8
72.5°	0.0	0.0	1.7	1.7	3.4	6.7	5.0	5.0	6.7	8.4
75°	0.0	0.0	1.7	1.7	3.4	5.0	5.0	5.0	5.0	5.0
77.5°	0.0	0.0	1.7	1.7	3.4	5.0	5.0	5.0	3.4	3.4
80°	0.0	0.0	1.7	1.7	3.4	5.0	6.7	6.7	3.4	3.4
82.5°	0.0	0.0	1.7	3.4	3.4	8.4	10.1	8.4	3.4	1.7
85°	0.0	0.0	1.7	1.7	5.0	8.4	8.4	5.0	3.4	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	5.0	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636510

CATALOG NUMBER: IFLD-S-SA3A-940-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13224.5	0°	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5	13224.5
13143.8	2.5°	13137.0	13239.7	13286.8	13238.0	13214.4	13180.8	13132.0	13098.4	13105.1
12837.6	5°	12809.0	12916.6	12953.7	12911.6	12876.3	12857.8	12849.3	12866.2	12909.9
12221.8	7.5°	12218.4	12287.4	12327.8	12307.6	12258.8	12314.3	12329.4	12319.3	12383.3
11388.9	10°	11392.3	11468.0	11431.0	11439.4	11382.2	11410.8	11402.4	11439.4	11503.3
10394.6	12.5°	10327.3	10399.6	10371.0	10366.0	10305.4	10359.2	10325.6	10366.0	10450.1
9142.8	15°	9208.4	9253.8	9235.3	9206.7	9152.9	9171.4	9275.7	9269.0	9306.0
7843.9	17.5°	7810.2	8028.9	8148.4	8173.6	8129.9	8166.9	8240.9	8222.4	8306.6
6474.3	20°	6462.5	6682.9	6977.4	7216.3	7221.3	7226.4	7273.5	7285.3	7357.6
5439.6	22.5°	5416.0	5572.5	5888.8	6205.1	6423.8	6469.3	6464.2	6481.0	6501.2
4616.8	25°	4605.0	4719.4	5008.8	5227.6	5611.2	5739.0	5776.1	5739.0	5750.8
3891.6	27.5°	3935.4	4110.4	4206.3	4440.1	4815.3	5111.5	5099.7	5077.8	5081.2
3386.9	30°	3385.2	3573.7	3715.0	3785.7	4068.3	4495.7	4539.4	4477.2	4478.8
2941.0	32.5°	2922.5	2981.4	3190.0	3247.2	3429.0	3817.6	3967.4	3920.3	3911.8
2352.2	35°	2421.1	2453.1	2549.0	2661.7	2769.4	3063.9	3311.2	3267.4	3289.3
1729.6	37.5°	1722.9	1854.1	1946.7	2039.2	2116.6	2301.7	2599.5	2559.1	2581.0
1224.9	40°	1214.8	1273.7	1433.5	1473.9	1588.3	1674.1	1926.5	1913.0	1939.9
760.5	42.5°	747.0	789.1	869.9	908.6	986.0	1034.7	1182.8	1199.6	1235.0
420.6	45°	424.0	442.5	498.0	540.1	597.3	617.5	669.6	693.2	713.4
326.4	47.5°	323.0	343.2	380.2	417.3	464.4	481.2	518.2	553.5	572.1
252.4	50°	264.2	282.7	321.4	351.6	398.8	413.9	444.2	482.9	506.4
191.8	52.5°	200.2	227.1	274.2	306.2	355.0	373.5	402.1	440.8	462.7
158.2	55°	164.9	185.1	227.1	270.9	316.3	341.5	360.1	407.2	430.7
129.6	57.5°	141.3	156.5	183.4	235.6	274.2	311.3	326.4	370.2	393.7
102.6	60°	107.7	131.2	154.8	195.2	238.9	277.6	294.4	333.1	351.6
74.0	62.5°	89.2	104.3	134.6	156.5	205.3	245.6	262.5	297.8	311.3
48.8	65°	62.3	84.1	112.7	126.2	171.6	210.3	233.9	260.8	274.2
28.6	67.5°	37.0	62.3	89.2	107.7	139.6	178.3	203.6	228.8	240.6
16.8	70°	23.6	48.8	70.7	90.9	109.4	146.4	176.7	198.5	193.5
10.1	72.5°	13.5	30.3	52.2	74.0	90.9	122.8	151.4	168.3	119.5
6.7	75°	8.4	21.9	43.7	60.6	74.0	97.6	124.5	127.9	74.0
3.4	77.5°	6.7	16.8	33.7	48.8	50.5	72.3	87.5	99.3	55.5
3.4	80°	3.4	13.5	28.6	40.4	32.0	50.5	67.3	77.4	43.7
1.7	82.5°	3.4	8.4	21.9	28.6	23.6	38.7	48.8	55.5	37.0
1.7	85°	1.7	6.7	11.8	16.8	16.8	25.2	21.9	26.9	23.6
1.7	87.5°	1.7	3.4	6.7	8.4	6.7	10.1	11.8	11.8	10.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13224.5
13195.9
13000.8
12447.2
11528.6
10465.2
9314.4
8293.1
7342.5
6464.2
5732.3
5086.2
4480.5
3932.0
3309.5
2599.5
1950.0
1275.3
711.7
580.5
516.5
477.8
437.5
403.8
355.0
312.9
274.2
238.9
178.3
106.0
69.0
55.5
45.4
40.4
23.6
8.4
0.0

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