

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: P636507

Luminaire Tested: **IFLD-S-SA2C-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8498.8 lumens
Efficiency: N/A
Efficacy: 78.5 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): 108.2
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



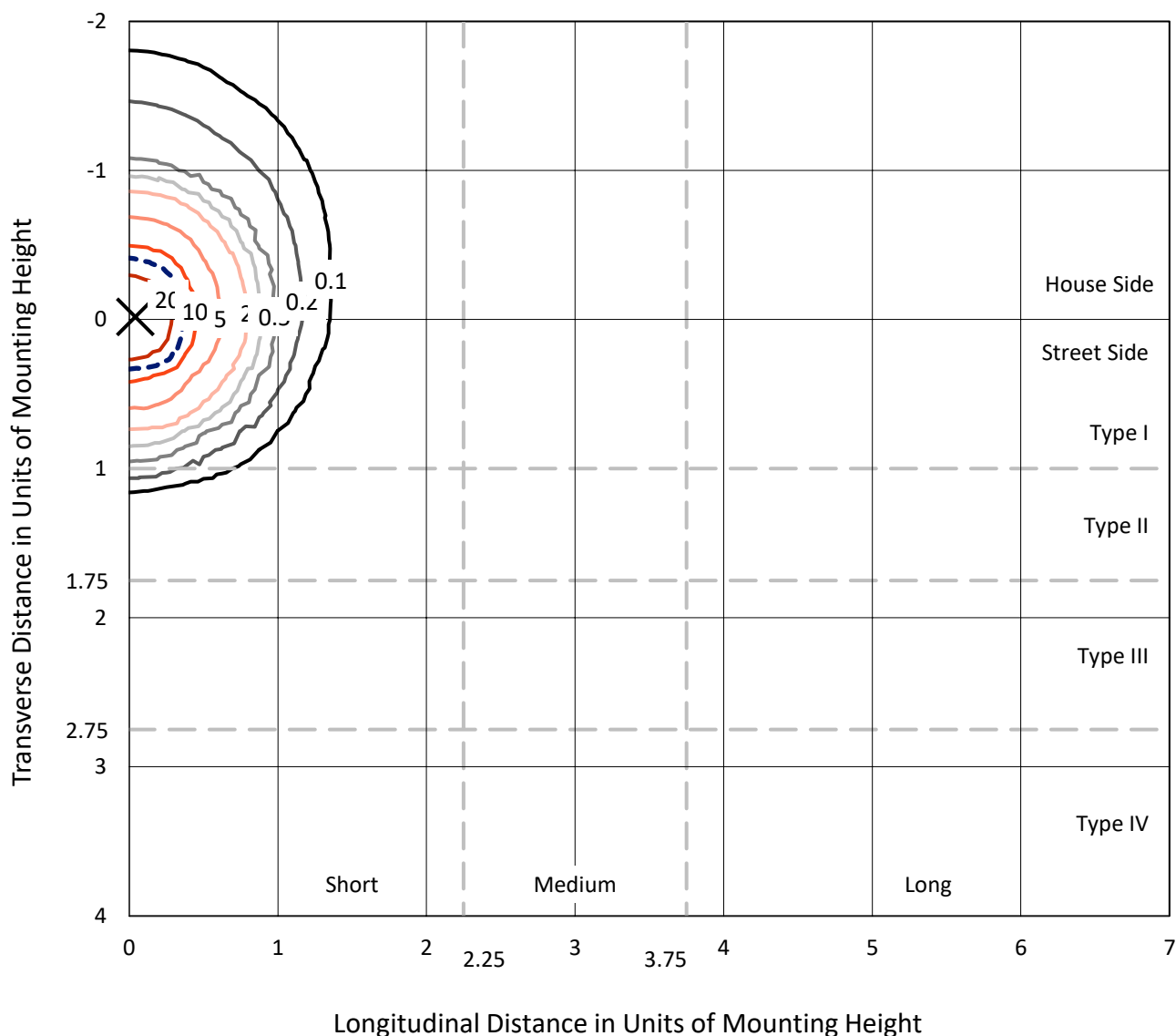
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

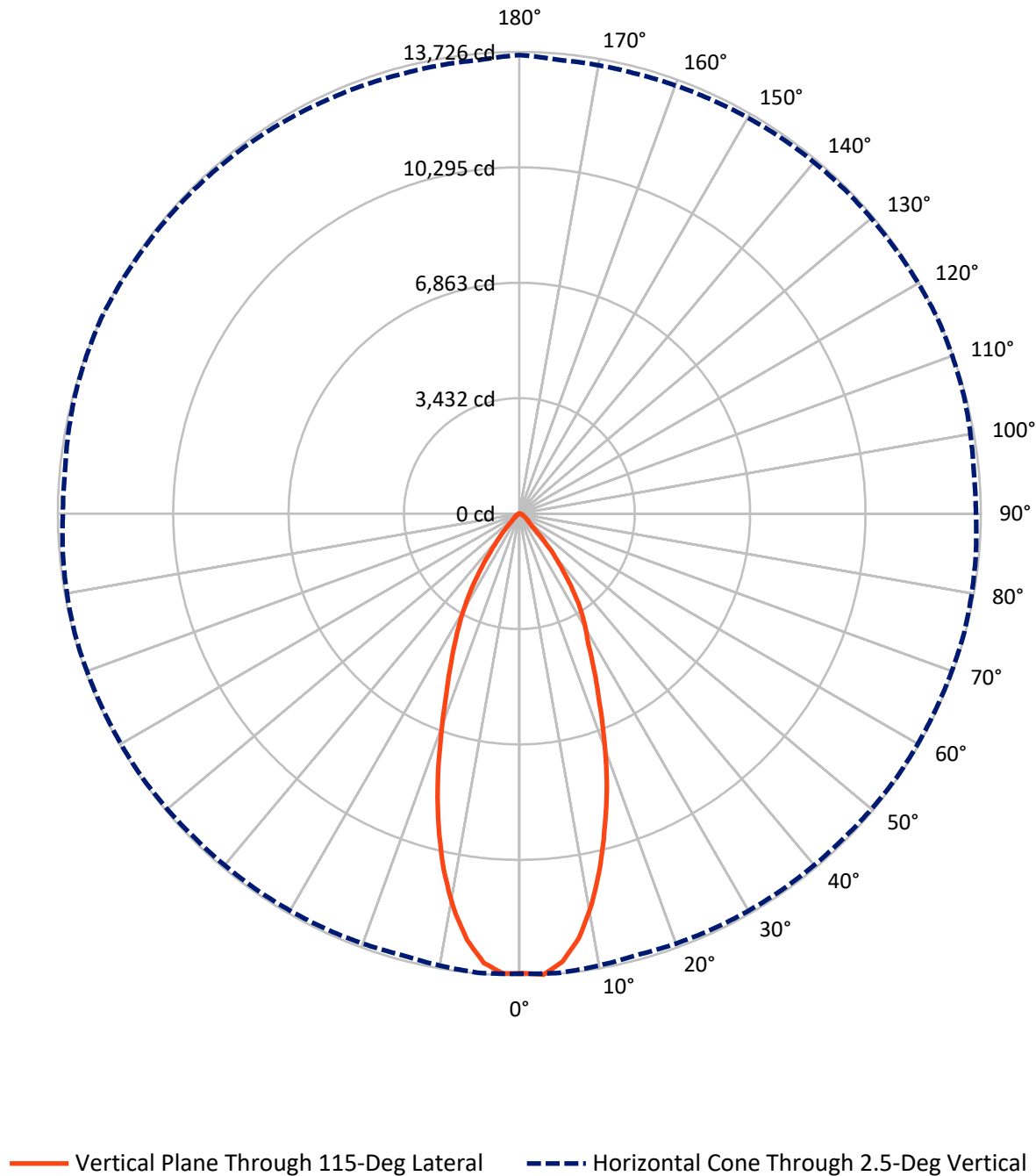


Based on 20 foot mounting height. Maximum calculated value = 34.2 fc

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	4690.3	0.0	4690.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3808.4	0.0	3808.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	8498.8	0.0	8498.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.4	14.4
10°-20°	2589.8	30.5
20°-30°	2337.4	27.5
30°-40°	1546.8	18.2
40°-50°	463.4	5.5
50°-60°	185.9	2.2
60°-70°	96.3	1.1
70°-80°	41.8	0.5
80°-90°	12.2	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°	8498.8	100.0
0°-180°	8498.8	100.0

Coefficient of Utilization



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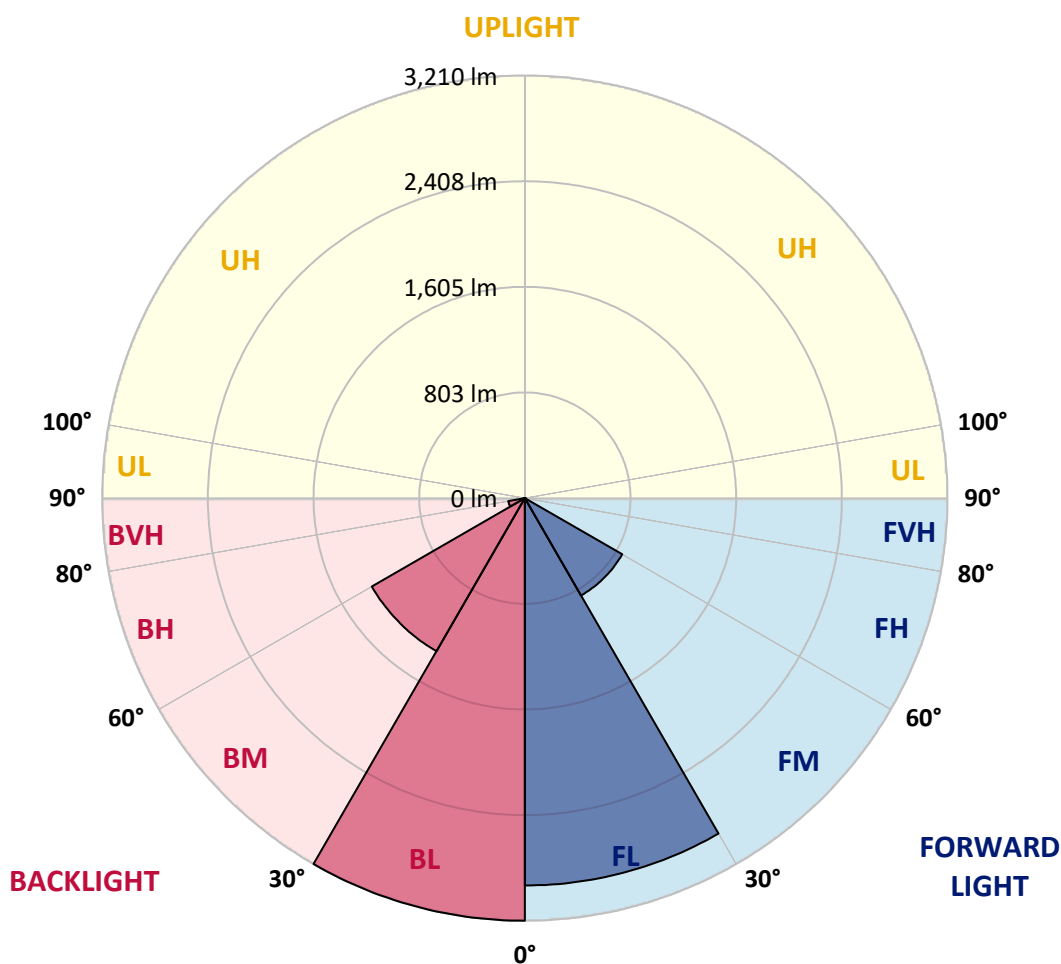
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.3	34.6			
FM	(30°-60°)	853.8	10.0			
FH	(60°-80°)	10.6	0.1			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	3210.2	37.8	B4/5000		
BM	(30°-60°)	1342.3	15.8	B2/2500		
BH	(60°-80°)	127.5	1.5	B1/500		G1/500
BVH	(80°-90°)	10.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8
2.5°	13679.1	13703.5	13581.8	13623.5	13640.9	13646.1	13689.6	13682.6	13694.8	13630.5
5°	13498.4	13451.4	13361.1	13362.8	13357.6	13308.9	13408.0	13401.0	13380.2	13303.7
7.5°	12883.1	12950.9	12780.5	12777.0	12773.6	12714.5	12844.8	12764.9	12782.3	12672.8
10°	11982.7	11991.4	11840.2	11826.3	11838.5	11762.0	11913.2	11881.9	11914.9	11800.2
12.5°	10879.0	10927.7	10760.8	10736.5	10785.1	10677.4	10799.0	10814.7	10766.0	10750.4
15°	8532.5	8661.1	8977.5	9460.7	9585.8	9495.4	9592.8	9591.0	9611.9	9493.7
17.5°	6500.6	6512.8	6438.1	6669.2	8007.6	8442.1	8463.0	8297.9	8172.7	8129.3
20°	5675.0	5716.7	5648.9	5668.1	5881.9	7155.9	7204.6	6956.0	6742.2	6724.9
22.5°	5018.0	5044.1	4995.4	5011.1	5021.5	5171.0	6017.4	5798.4	5695.9	5617.7
25°	4461.8	4461.8	4435.7	4440.9	4430.5	4209.8	4644.3	4894.6	4835.5	4807.7
27.5°	3954.3	3961.2	3928.2	3947.3	3820.4	3464.1	3412.0	4150.7	4088.1	4037.7
30°	3472.8	3495.4	3464.1	3474.5	3198.2	2906.2	2756.7	3462.4	3540.6	3526.7
32.5°	2614.2	2716.7	2968.7	2979.2	2603.7	2379.5	2313.5	2779.3	3076.5	3050.4
35°	1619.9	1614.7	1625.2	2125.7	1997.1	1844.2	1868.5	2099.7	2435.1	2423.0
37.5°	1235.8	1234.1	1253.2	1202.8	1308.8	1399.2	1418.3	1418.3	1778.1	1779.9
40°	936.9	929.9	928.2	848.2	710.9	1049.8	1018.5	992.5	1235.8	1261.9
42.5°	597.9	618.8	603.1	516.2	464.1	573.6	639.6	618.8	763.0	782.2
45°	333.7	333.7	319.8	271.1	269.4	290.3	365.0	340.7	391.1	417.2
47.5°	161.6	158.2	173.8	213.8	222.5	215.5	260.7	271.1	295.5	319.8
50°	130.4	130.4	123.4	111.2	184.2	177.3	192.9	206.8	220.7	241.6
52.5°	109.5	109.5	100.8	93.9	106.0	135.6	137.3	163.4	161.6	191.2
55°	55.6	57.4	81.7	81.7	71.3	111.2	113.0	132.1	135.6	159.9
57.5°	5.2	7.0	10.4	50.4	55.6	60.8	85.2	97.3	113.0	123.4
60°	1.7	1.7	3.5	7.0	33.0	41.7	53.9	64.3	78.2	102.6
62.5°	0.0	0.0	1.7	3.5	7.0	26.1	29.5	33.0	46.9	64.3
65°	0.0	0.0	1.7	1.7	3.5	8.7	12.2	20.9	29.5	40.0
67.5°	0.0	0.0	1.7	1.7	3.5	5.2	7.0	10.4	13.9	26.1
70°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	7.0	8.7	12.2
72.5°	0.0	0.0	1.7	1.7	3.5	7.0	5.2	5.2	7.0	8.7
75°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	5.2	5.2	5.2
77.5°	0.0	0.0	1.7	1.7	3.5	5.2	5.2	5.2	3.5	3.5
80°	0.0	0.0	1.7	1.7	3.5	5.2	7.0	7.0	3.5	3.5
82.5°	0.0	0.0	1.7	3.5	3.5	8.7	10.4	8.7	3.5	1.7
85°	0.0	0.0	1.7	1.7	5.2	8.7	8.7	5.2	3.5	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.5	5.2	5.2	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

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13661.8	0°	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8	13661.8
13578.3	2.5°	13571.4	13677.4	13726.1	13675.7	13651.3	13616.6	13566.2	13531.4	13538.4
13262.0	5°	13232.4	13343.7	13381.9	13338.5	13302.0	13282.8	13274.2	13291.5	13336.7
12625.8	7.5°	12622.4	12693.6	12735.3	12714.5	12664.1	12721.4	12737.1	12726.6	12792.7
11765.5	10°	11768.9	11847.1	11808.9	11817.6	11758.5	11788.0	11779.4	11817.6	11883.6
10738.2	12.5°	10668.7	10743.4	10713.9	10708.7	10646.1	10701.7	10667.0	10708.7	10795.6
9445.0	15°	9512.8	9559.8	9540.6	9511.1	9455.5	9474.6	9582.4	9575.4	9613.6
8103.2	17.5°	8068.4	8294.4	8417.8	8443.9	8398.7	8436.9	8513.4	8494.3	8581.2
6688.4	20°	6676.2	6903.9	7208.1	7454.9	7460.1	7465.3	7514.0	7526.1	7600.9
5619.4	22.5°	5595.1	5756.7	6083.5	6410.3	6636.2	6683.1	6677.9	6695.3	6716.2
4769.4	25°	4757.3	4875.5	5174.4	5400.4	5796.7	5928.8	5967.0	5928.8	5941.0
4020.3	27.5°	4065.5	4246.3	4345.3	4586.9	4974.5	5280.5	5268.3	5245.7	5249.2
3498.9	30°	3497.1	3691.8	3837.8	3910.8	4202.8	4644.3	4689.5	4625.2	4626.9
3038.3	32.5°	3019.1	3080.0	3295.5	3354.6	3542.3	3943.8	4098.5	4049.9	4041.2
2429.9	35°	2501.2	2534.2	2633.3	2749.7	2861.0	3165.1	3420.7	3375.5	3398.1
1786.8	37.5°	1779.9	1915.4	2011.0	2106.6	2186.6	2377.8	2685.4	2643.7	2666.3
1265.4	40°	1254.9	1315.8	1480.9	1522.6	1640.8	1729.4	1990.2	1976.3	2004.1
785.6	42.5°	771.7	815.2	898.6	938.6	1018.5	1069.0	1221.9	1239.3	1275.8
434.5	45°	438.0	457.1	514.5	557.9	617.0	637.9	691.8	716.1	737.0
337.2	47.5°	333.7	354.6	392.8	431.1	479.7	497.1	535.3	571.8	591.0
260.7	50°	272.9	292.0	332.0	363.3	411.9	427.6	458.9	498.8	523.2
198.1	52.5°	206.8	234.6	283.3	316.3	366.7	385.9	415.4	455.4	478.0
163.4	55°	170.3	191.2	234.6	279.8	326.8	352.8	372.0	420.6	445.0
133.8	57.5°	146.0	161.6	189.5	243.3	283.3	321.6	337.2	382.4	406.7
106.0	60°	111.2	135.6	159.9	201.6	246.8	286.8	304.2	344.2	363.3
76.5	62.5°	92.1	107.8	139.1	161.6	212.1	253.8	271.1	307.7	321.6
50.4	65°	64.3	86.9	116.5	130.4	177.3	217.3	241.6	269.4	283.3
29.5	67.5°	38.2	64.3	92.1	111.2	144.3	184.2	210.3	236.4	248.6
17.4	70°	24.3	50.4	73.0	93.9	113.0	151.2	182.5	205.1	199.9
10.4	72.5°	13.9	31.3	53.9	76.5	93.9	126.9	156.4	173.8	123.4
7.0	75°	8.7	22.6	45.2	62.6	76.5	100.8	128.6	132.1	76.5
3.5	77.5°	7.0	17.4	34.8	50.4	52.1	74.7	90.4	102.6	57.4
3.5	80°	3.5	13.9	29.5	41.7	33.0	52.1	69.5	80.0	45.2
1.7	82.5°	3.5	8.7	22.6	29.5	24.3	40.0	50.4	57.4	38.2
1.7	85°	1.7	7.0	12.2	17.4	17.4	26.1	22.6	27.8	24.3
1.7	87.5°	1.7	3.5	7.0	8.7	7.0	10.4	12.2	12.2	10.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13661.8
13632.2
13430.6
12858.7
11909.7
10811.2
9622.3
8567.3
7585.2
6677.9
5921.8
5254.4
4628.7
4062.0
3418.9
2685.4
2014.5
1317.5
735.2
599.7
533.6
493.6
451.9
417.2
366.7
323.3
283.3
246.8
184.2
109.5
71.3
57.4
46.9
41.7
24.3
8.7
0.0

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