

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: P636508

Luminaire Tested: **IFLD-S-SA2D-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 9351.5 lumens
Efficiency: N/A
Efficacy: 75.5 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): 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



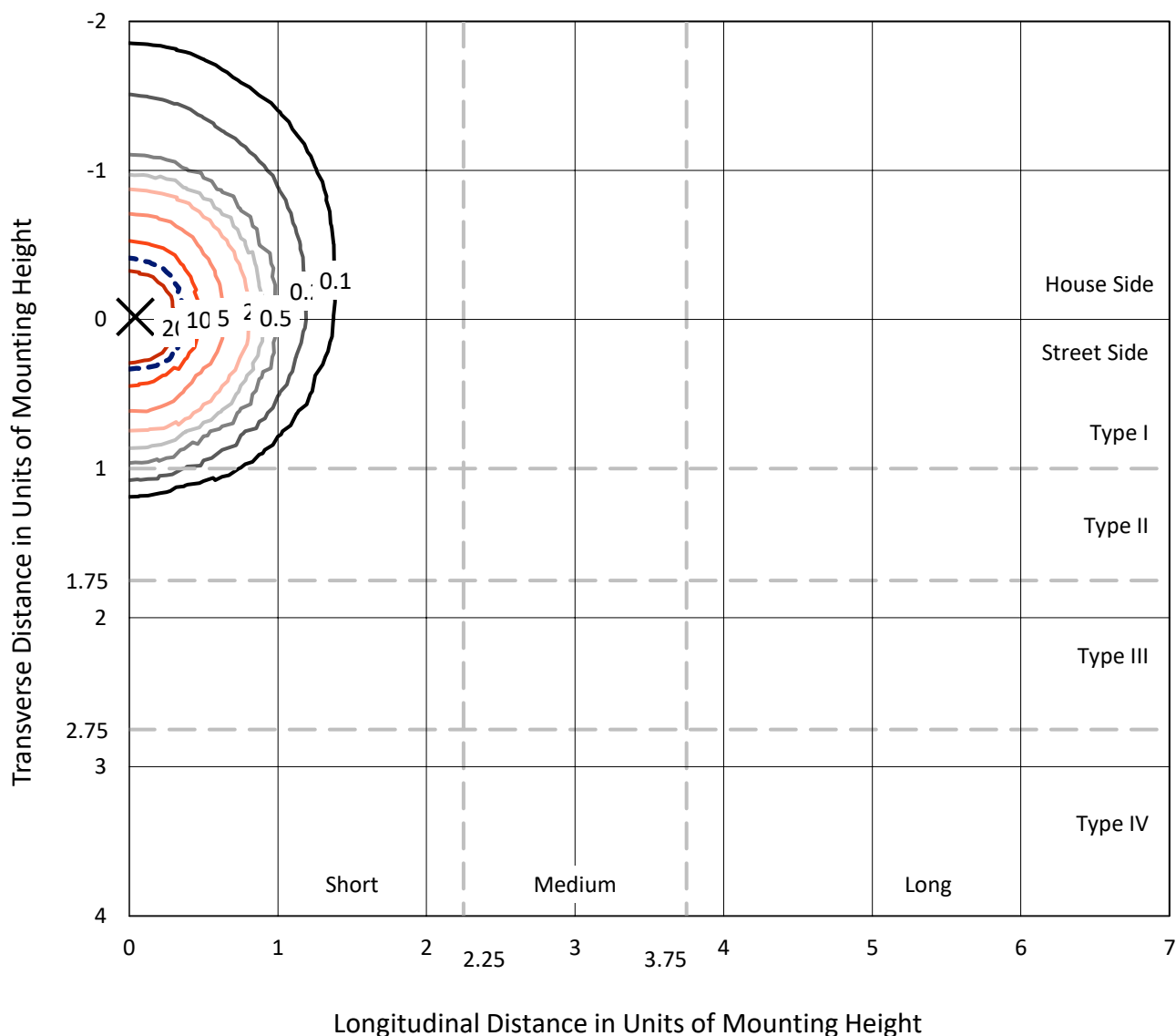
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

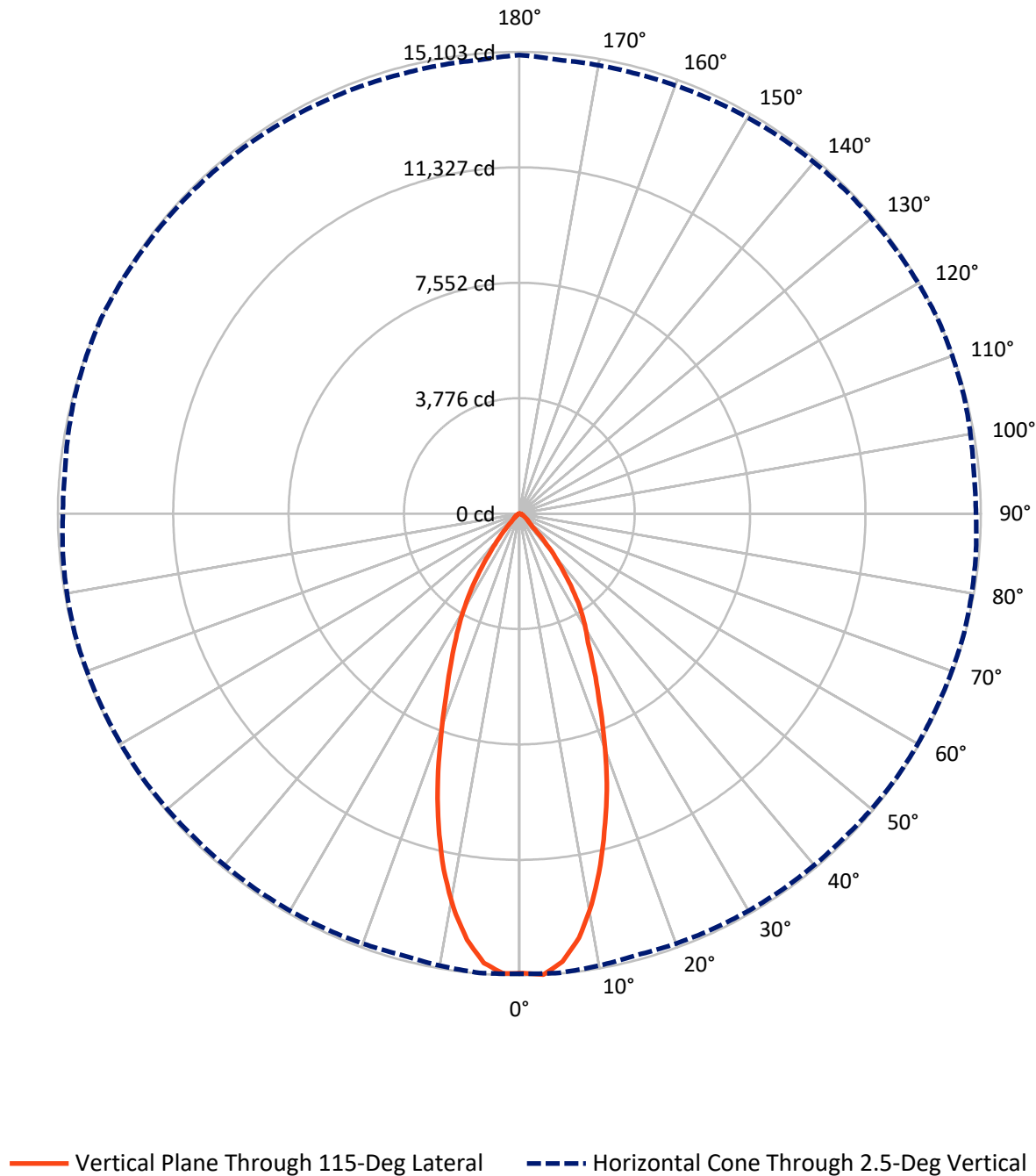


Based on 20 foot mounting height. Maximum calculated value = 37.6 fc

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	5160.9	0.0	5160.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4190.6	0.0	4190.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	9351.5	0.0	9351.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1348.3	14.4
10°-20°	2849.6	30.5
20°-30°	2572.0	27.5
30°-40°	1702.0	18.2
40°-50°	509.9	5.5
50°-60°	204.5	2.2
60°-70°	105.9	1.1
70°-80°	46.0	0.5
80°-90°	13.4	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°	9351.5	100.0
0°-180°	9351.5	100.0

Coefficient of Utilization



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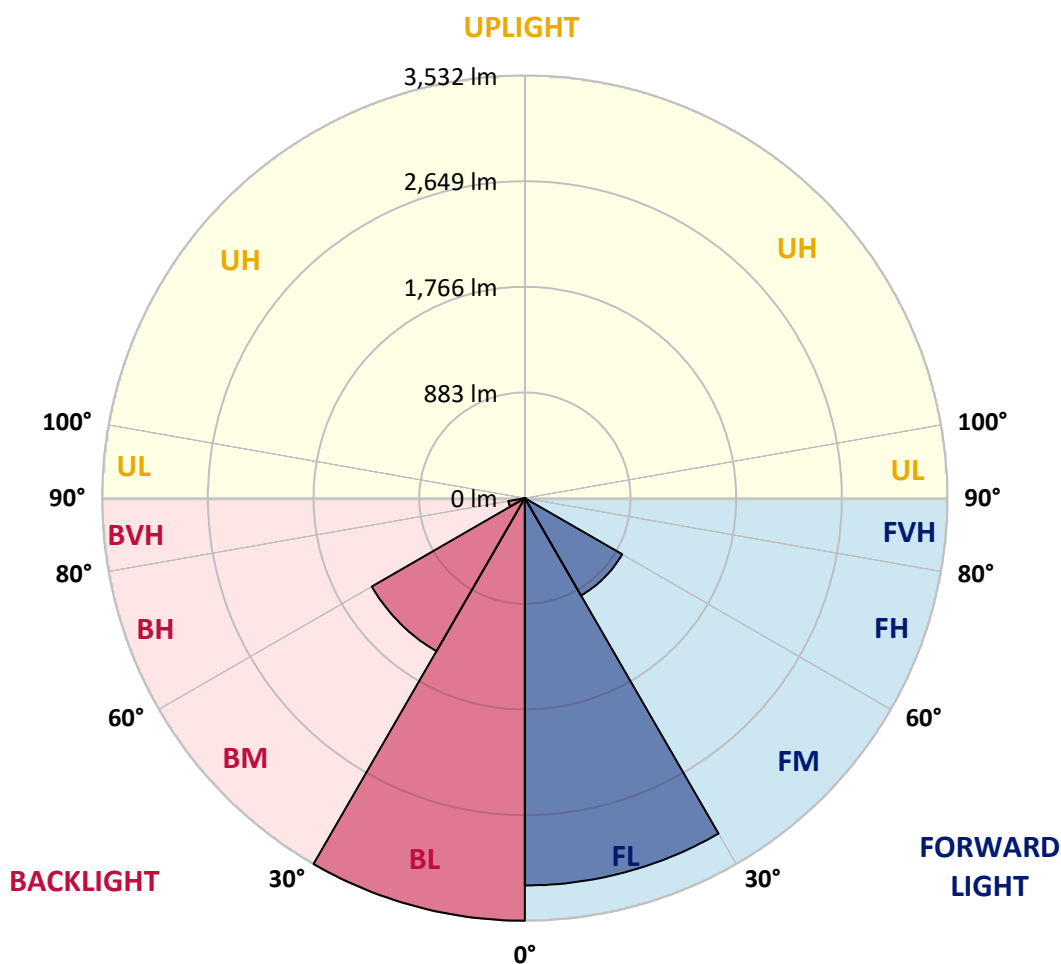
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3237.6	34.6			
FM	(30°-60°)	939.4	10.0			
FH	(60°-80°)	11.6	0.1			G0/660
FVH	(80°-90°)	1.9	0.0			G0/10
BL	(0°-30°)	3532.3	37.8	B4/5000		
BM	(30°-60°)	1476.9	15.8	B2/2500		
BH	(60°-80°)	140.3	1.5	B1/500		G1/500
BVH	(80°-90°)	11.5	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°	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5
2.5°	15051.7	15078.4	14944.6	14990.5	15009.6	15015.3	15063.1	15055.5	15068.9	14998.1
5°	14852.8	14801.1	14701.7	14703.6	14697.8	14644.3	14753.3	14745.7	14722.7	14638.6
7.5°	14175.7	14250.3	14062.9	14059.1	14055.2	13990.2	14133.6	14045.7	14064.8	13944.3
10°	13185.0	13194.6	13028.2	13012.9	13026.3	12942.1	13108.5	13074.1	13110.4	12984.2
12.5°	11970.6	12024.1	11840.5	11813.7	11867.3	11748.7	11882.6	11899.8	11846.2	11829.0
15°	9388.6	9530.2	9878.2	10409.9	10547.6	10448.2	10555.3	10553.4	10576.3	10446.3
17.5°	7152.9	7166.3	7084.0	7338.4	8811.1	9289.2	9312.1	9130.4	8992.7	8944.9
20°	6244.4	6290.3	6215.7	6236.8	6472.0	7873.9	7927.5	7654.0	7418.7	7399.6
22.5°	5521.5	5550.2	5496.6	5513.8	5525.3	5689.8	6621.2	6380.2	6267.4	6181.3
25°	4909.5	4909.5	4880.8	4886.5	4875.1	4632.2	5110.3	5385.7	5320.7	5290.1
27.5°	4351.0	4358.7	4322.3	4343.4	4203.8	3811.7	3754.3	4567.1	4498.3	4442.8
30°	3821.2	3846.1	3811.7	3823.2	3519.1	3197.8	3033.3	3809.8	3895.8	3880.5
32.5°	2876.5	2989.3	3266.6	3278.1	2865.0	2618.3	2545.6	3058.1	3385.2	3356.5
35°	1782.5	1776.7	1788.2	2339.0	2197.5	2029.2	2056.0	2310.3	2679.5	2666.1
37.5°	1359.8	1357.9	1378.9	1323.5	1440.1	1539.6	1560.6	1560.6	1956.5	1958.4
40°	1030.9	1023.2	1021.3	933.3	782.2	1155.2	1120.7	1092.1	1359.8	1388.5
42.5°	657.9	680.9	663.7	568.0	510.6	631.1	703.8	680.9	839.6	860.6
45°	367.2	367.2	351.9	298.4	296.4	319.4	401.6	374.9	430.3	459.0
47.5°	177.9	174.0	191.3	235.2	244.8	237.2	286.9	298.4	325.1	351.9
50°	143.4	143.4	135.8	122.4	202.7	195.1	212.3	227.6	242.9	265.8
52.5°	120.5	120.5	110.9	103.3	116.7	149.2	151.1	179.8	177.9	210.4
55°	61.2	63.1	89.9	89.9	78.4	122.4	124.3	145.4	149.2	176.0
57.5°	5.7	7.7	11.5	55.5	61.2	66.9	93.7	107.1	124.3	135.8
60°	1.9	1.9	3.8	7.7	36.3	45.9	59.3	70.8	86.1	112.8
62.5°	0.0	0.0	1.9	3.8	7.7	28.7	32.5	36.3	51.6	70.8
65°	0.0	0.0	1.9	1.9	3.8	9.6	13.4	23.0	32.5	44.0
67.5°	0.0	0.0	1.9	1.9	3.8	5.7	7.7	11.5	15.3	28.7
70°	0.0	0.0	1.9	1.9	3.8	5.7	5.7	7.7	9.6	13.4
72.5°	0.0	0.0	1.9	1.9	3.8	7.7	5.7	5.7	7.7	9.6
75°	0.0	0.0	1.9	1.9	3.8	5.7	5.7	5.7	5.7	5.7
77.5°	0.0	0.0	1.9	1.9	3.8	5.7	5.7	5.7	3.8	3.8
80°	0.0	0.0	1.9	1.9	3.8	5.7	7.7	7.7	3.8	3.8
82.5°	0.0	0.0	1.9	3.8	3.8	9.6	11.5	9.6	3.8	1.9
85°	0.0	0.0	1.9	1.9	5.7	9.6	9.6	5.7	3.8	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	5.7	5.7	1.9	1.9
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°
15032.5	0°	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5	15032.5
14940.7	2.5°	14933.1	15049.7	15103.3	15047.8	15021.1	14982.8	14927.3	14889.1	14896.7
14592.7	5°	14560.1	14682.5	14724.6	14676.8	14636.6	14615.6	14606.0	14625.2	14674.9
13892.7	7.5°	13888.8	13967.3	14013.2	13990.2	13934.7	13997.9	14015.1	14003.6	14076.3
12946.0	10°	12949.8	13035.8	12993.8	13003.3	12938.3	12970.8	12961.3	13003.3	13076.0
11815.6	12.5°	11739.1	11821.4	11788.9	11783.1	11714.3	11775.5	11737.2	11783.1	11878.8
10392.7	15°	10467.3	10518.9	10497.9	10465.4	10404.2	10425.2	10543.8	10536.2	10578.2
8916.2	17.5°	8878.0	9126.6	9262.4	9291.1	9241.4	9283.5	9367.6	9346.6	9442.2
7359.4	20°	7346.1	7596.6	7931.3	8202.9	8208.6	8214.3	8267.9	8281.3	8363.5
6183.2	22.5°	6156.5	6334.3	6693.9	7053.4	7302.1	7353.7	7348.0	7367.1	7390.0
5248.0	25°	5234.6	5364.7	5693.6	5942.3	6378.3	6523.7	6565.7	6523.7	6537.0
4423.7	27.5°	4473.4	4672.3	4781.3	5047.2	5473.7	5810.3	5796.9	5772.0	5775.9
3849.9	30°	3848.0	4062.2	4222.9	4303.2	4624.5	5110.3	5160.0	5089.3	5091.2
3343.1	32.5°	3322.1	3389.0	3626.2	3691.2	3897.7	4339.5	4509.8	4456.2	4446.6
2673.7	35°	2752.1	2788.5	2897.5	3025.6	3148.0	3482.7	3763.9	3714.1	3739.0
1966.1	37.5°	1958.4	2107.6	2212.8	2318.0	2406.0	2616.3	2954.9	2909.0	2933.8
1392.3	40°	1380.9	1447.8	1629.5	1675.4	1805.4	1903.0	2189.9	2174.6	2205.2
864.5	42.5°	849.2	897.0	988.8	1032.8	1120.7	1176.2	1344.5	1363.6	1403.8
478.1	45°	482.0	503.0	566.1	613.9	679.0	701.9	761.2	788.0	810.9
371.0	47.5°	367.2	390.2	432.2	474.3	527.9	547.0	589.1	629.2	650.3
286.9	50°	300.3	321.3	365.3	399.7	453.3	470.5	504.9	548.9	575.7
218.0	52.5°	227.6	258.2	311.7	348.1	403.5	424.6	457.1	501.1	525.9
179.8	55°	187.4	210.4	258.2	307.9	359.6	388.2	409.3	462.8	489.6
147.3	57.5°	160.7	177.9	208.5	267.8	311.7	353.8	371.0	420.8	447.5
116.7	60°	122.4	149.2	176.0	221.9	271.6	315.6	334.7	378.7	399.7
84.2	62.5°	101.4	118.6	153.0	177.9	233.3	279.2	298.4	338.5	353.8
55.5	65°	70.8	95.6	128.1	143.4	195.1	239.1	265.8	296.4	311.7
32.5	67.5°	42.1	70.8	101.4	122.4	158.7	202.7	231.4	260.1	273.5
19.1	70°	26.8	55.5	80.3	103.3	124.3	166.4	200.8	225.7	219.9
11.5	72.5°	15.3	34.4	59.3	84.2	103.3	139.6	172.1	191.3	135.8
7.7	75°	9.6	24.9	49.7	68.9	84.2	110.9	141.5	145.4	84.2
3.8	77.5°	7.7	19.1	38.3	55.5	57.4	82.2	99.5	112.8	63.1
3.8	80°	3.8	15.3	32.5	45.9	36.3	57.4	76.5	88.0	49.7
1.9	82.5°	3.8	9.6	24.9	32.5	26.8	44.0	55.5	63.1	42.1
1.9	85°	1.9	7.7	13.4	19.1	19.1	28.7	24.9	30.6	26.8
1.9	87.5°	1.9	3.8	7.7	9.6	7.7	11.5	13.4	13.4	11.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15032.5
15000.0
14778.2
14148.9
13104.7
11896.0
10587.8
9426.9
8346.3
7348.0
6516.0
5781.6
5093.1
4469.6
3762.0
2954.9
2216.6
1449.7
809.0
659.8
587.1
543.2
497.3
459.0
403.5
355.7
311.7
271.6
202.7
120.5
78.4
63.1
51.6
45.9
26.8
9.6
0.0

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