

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: P637378

Luminaire Tested: **IFLD-S-SA2D-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637378
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15084.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

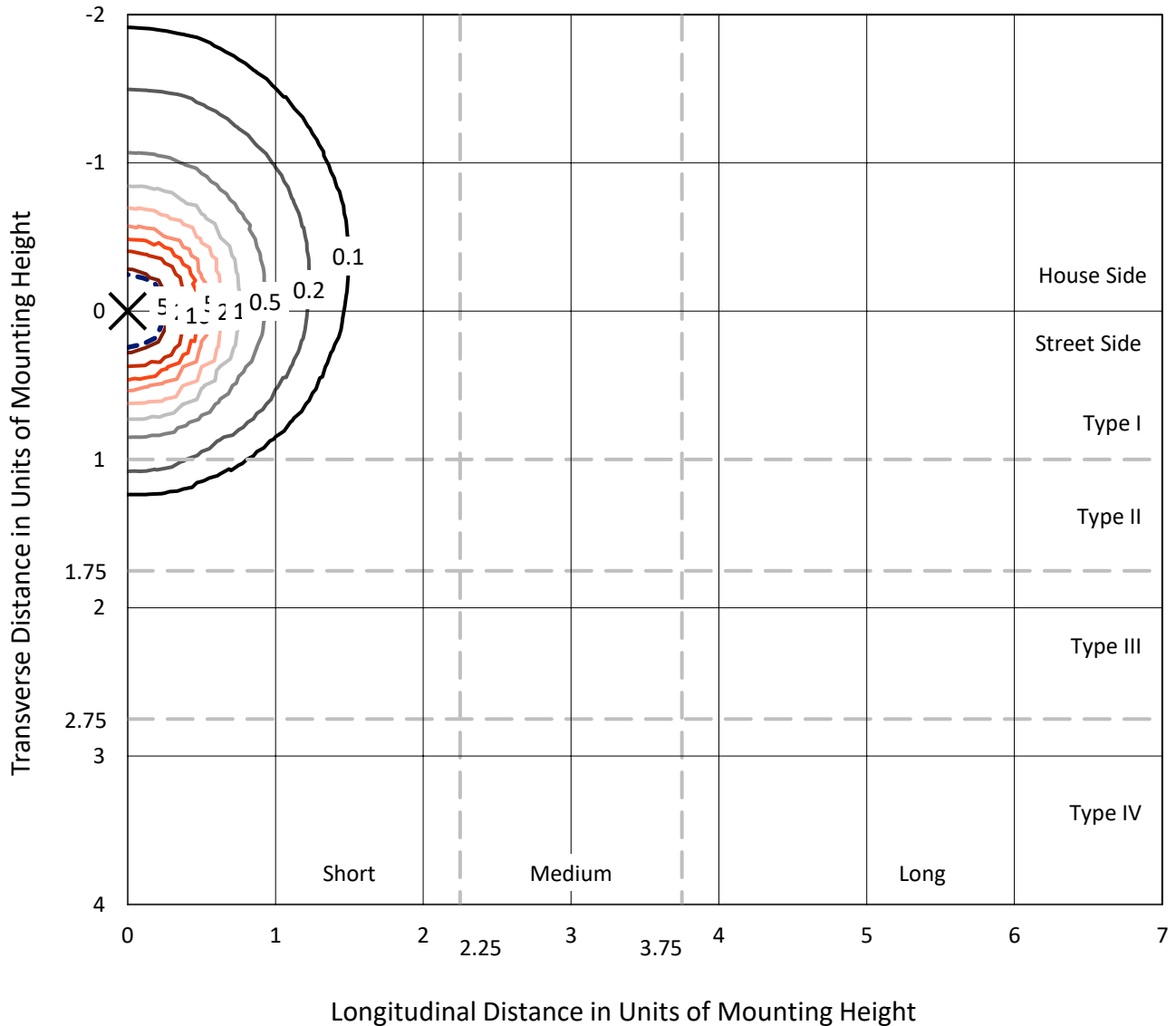
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

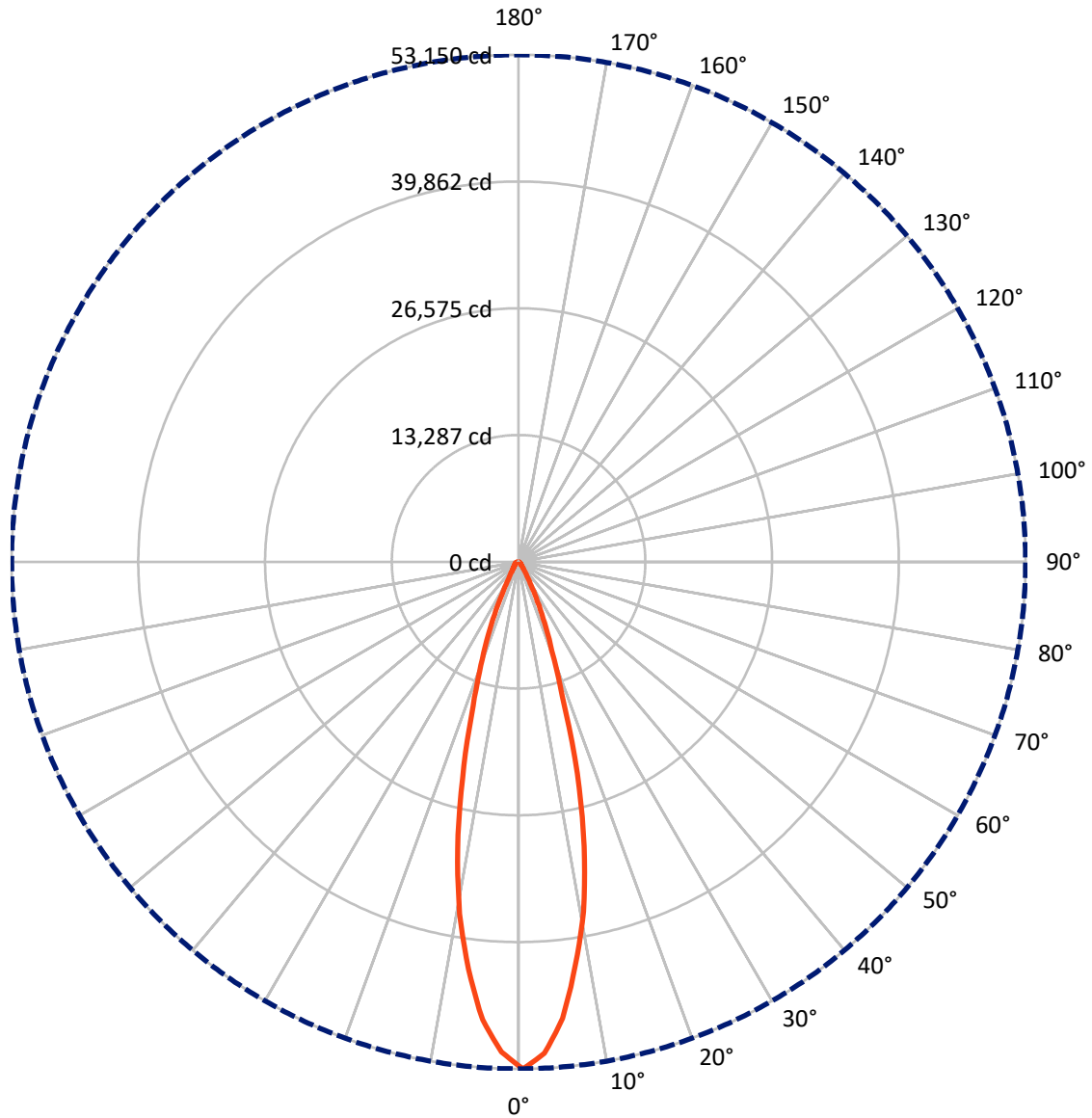
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 132.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7953.3	0.0	7953.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7130.7	0.0	7130.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	15084.1	0.0	15084.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4289.7	28.4
10°-20°	6496.6	43.1
20°-30°	2741.6	18.2
30°-40°	715.0	4.7
40°-50°	361.7	2.4
50°-60°	236.4	1.6
60°-70°	141.6	0.9
70°-80°	74.5	0.5
80°-90°	26.9	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°	15084.1	100.0
0°-180°	15084.1	100.0



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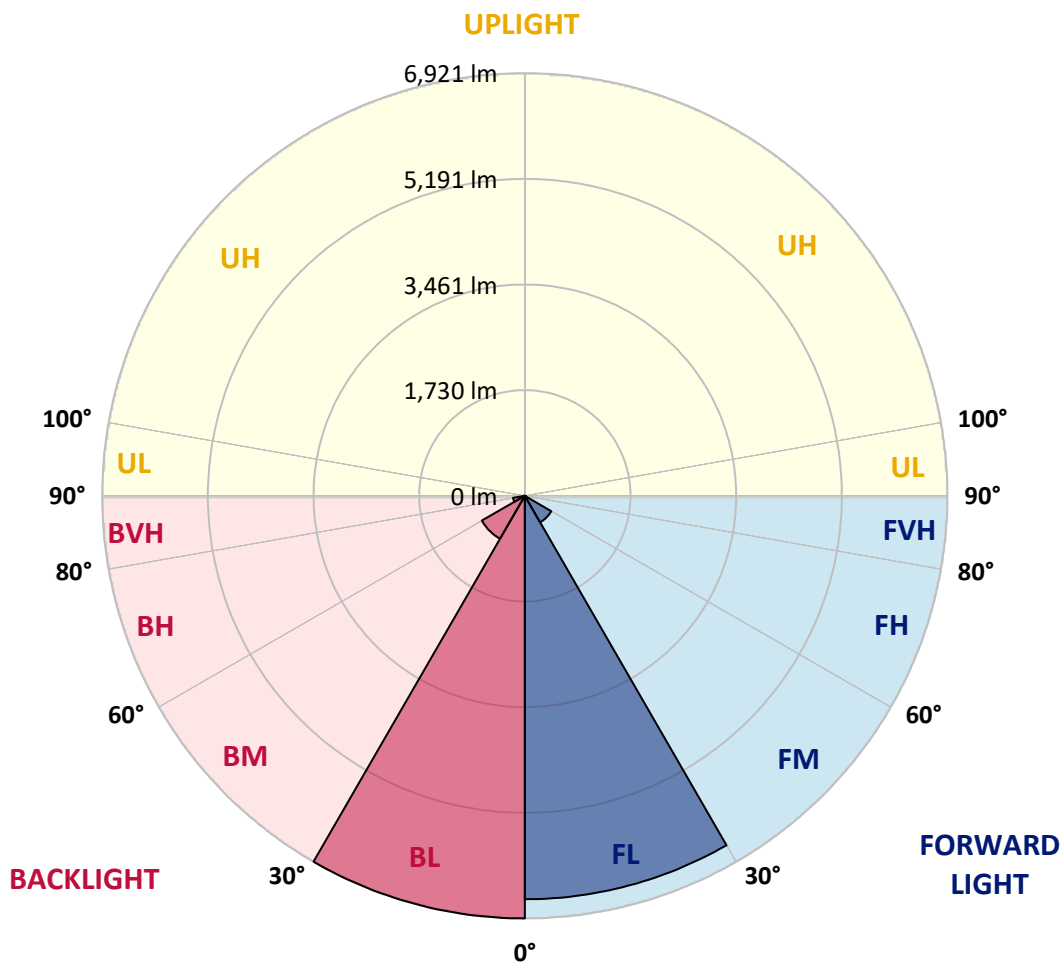
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6606.7	43.8			
FM (30°-60°)	500.3	3.3			
FH (60°-80°)	20.4	0.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	6921.2	45.9	B5		
BM (30°-60°)	812.7	5.4	B1/1000		
BH (60°-80°)	195.7	1.3	B1/500		G0/660
BVH (80°-90°)	23.6	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7
2.5°	51601.4	51630.2	51523.5	51753.9	51574.3	52055.4	51816.5	52189.2	52063.9	52272.2
5°	48078.0	48030.5	48000.0	48357.5	48254.1	48770.8	48440.5	48332.1	48667.5	48606.5
7.5°	42757.2	42882.6	42811.4	42904.6	42957.1	43546.6	43733.0	43587.3	43592.4	43677.1
10°	37302.7	37118.0	36855.5	37030.0	37399.2	37656.7	37553.4	37766.8	37719.4	37921.0
12.5°	30591.2	30736.9	30589.5	30433.7	31079.1	31007.9	31187.5	31304.4	31011.3	31663.5
15°	23042.9	23119.2	23298.7	23286.9	23783.2	23883.1	23859.4	23983.1	23754.4	23862.8
17.5°	14803.5	15061.0	15543.8	16360.3	17278.4	17385.1	17358.0	17256.4	17146.3	17024.3
20°	9943.5	9916.4	10090.9	10329.8	12230.4	12733.5	12718.3	12399.8	11939.0	11850.9
22.5°	6965.6	7016.4	6992.7	7229.8	7622.8	9010.2	8839.1	8515.5	8364.8	8266.5
25°	4582.2	4563.5	4682.1	4753.3	5090.3	5259.7	5859.4	5739.1	5507.1	5532.5
27.5°	2793.3	2817.1	2861.1	2922.1	3160.9	3106.7	3448.9	3494.6	3420.1	3340.5
30°	1714.3	1731.2	1766.8	1810.8	1893.8	1834.6	1929.4	2093.7	2066.6	2010.7
32.5°	1163.8	1165.4	1190.9	1207.8	1197.6	1141.7	1172.2	1328.1	1331.5	1326.4
35°	836.8	836.8	860.5	874.1	845.3	799.5	804.6	901.2	943.5	952.0
37.5°	577.6	579.3	620.0	660.6	628.5	616.6	596.3	660.6	728.4	738.6
40°	438.7	437.0	457.4	487.9	491.2	469.2	476.0	516.7	586.1	594.6
42.5°	355.7	357.4	367.6	364.2	365.9	394.7	404.9	423.5	487.9	503.1
45°	299.8	301.5	306.6	289.7	282.9	326.9	340.5	350.6	404.9	423.5
47.5°	247.3	250.7	255.8	237.2	233.8	262.6	286.3	296.4	343.9	364.2
50°	177.9	181.3	199.9	189.7	199.9	206.7	238.8	254.1	286.3	313.4
52.5°	128.7	132.1	137.2	138.9	164.3	167.7	191.4	215.1	230.4	260.9
55°	101.6	105.0	101.6	98.2	120.3	138.9	147.4	172.8	184.6	220.2
57.5°	57.6	61.0	66.1	76.2	79.6	106.7	115.2	137.2	147.4	181.3
60°	10.2	11.9	18.6	45.7	55.9	67.8	86.4	105.0	118.6	142.3
62.5°	1.7	1.7	3.4	10.2	32.2	47.4	62.7	74.5	86.4	108.4
65°	0.0	0.0	1.7	3.4	8.5	27.1	33.9	44.0	59.3	77.9
67.5°	0.0	0.0	1.7	3.4	5.1	10.2	15.2	27.1	33.9	52.5
70°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	11.9	20.3	32.2
72.5°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	10.2	10.2	20.3
75°	0.0	0.0	1.7	3.4	5.1	8.5	10.2	10.2	8.5	8.5
77.5°	0.0	0.0	1.7	3.4	6.8	10.2	11.9	10.2	6.8	6.8
80°	0.0	0.0	3.4	5.1	8.5	11.9	15.2	11.9	6.8	3.4
82.5°	0.0	0.0	3.4	6.8	8.5	13.6	18.6	15.2	6.8	3.4
85°	0.0	0.0	1.7	5.1	10.2	13.6	18.6	13.6	6.8	1.7
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	10.2	8.5	3.4	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°
53149.7	0°	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7	53149.7
51877.5	2.5°	52175.7	52446.7	52502.6	52428.1	52536.5	52341.7	52192.6	51806.4	51574.3
48587.9	5°	48901.2	48860.6	49143.5	49236.6	49224.8	49075.7	48867.4	48633.6	48406.6
43512.7	7.5°	43783.8	43836.3	44093.8	44258.1	44175.1	43988.8	43844.8	43668.6	43516.1
37993.8	10°	38341.1	37980.3	38300.4	38300.4	38522.3	37995.5	38044.6	37600.8	37621.2
31651.6	12.5°	31760.1	31890.5	31943.0	32093.8	31834.6	31555.1	31212.9	31145.1	30933.4
23656.2	15°	23996.6	24369.3	24049.1	24596.3	24332.0	24040.7	23988.2	23463.0	23629.0
17158.1	17.5°	17073.4	17485.1	17613.8	17927.2	17686.6	17513.9	17295.3	17136.1	17124.2
12011.9	20°	12106.7	12520.1	12614.9	12991.0	12963.9	12909.7	12725.0	12523.4	12304.9
8176.7	22.5°	8300.4	8637.5	8952.6	9459.1	9450.6	9291.4	9272.7	8988.2	8993.2
5524.0	25°	5581.6	5827.2	5901.8	6420.1	6477.7	6460.8	6364.2	6099.9	6199.9
3374.4	27.5°	3377.8	3592.9	3845.3	4028.2	4201.0	4173.9	4077.4	3930.0	3865.6
2027.7	30°	2081.9	2178.4	2271.6	2491.8	2595.1	2649.4	2603.6	2466.4	2476.6
1334.8	32.5°	1363.6	1444.9	1512.7	1651.6	1705.8	1805.8	1787.1	1758.3	1724.5
960.5	35°	994.4	1053.6	1099.4	1163.8	1233.2	1317.9	1331.5	1319.6	1306.0
742.0	37.5°	758.9	819.9	872.4	899.5	953.7	1019.8	1057.0	1055.3	1045.2
604.7	40°	616.6	662.3	709.8	745.3	782.6	831.7	877.5	882.6	882.6
508.2	42.5°	515.0	553.9	601.4	638.6	665.7	711.5	758.9	762.3	758.9
430.3	45°	440.4	474.3	520.0	564.1	586.1	620.0	665.7	675.9	669.1
369.3	47.5°	382.8	413.3	452.3	499.7	523.4	553.9	596.3	608.1	606.4
318.5	50°	328.6	364.2	403.2	442.1	472.6	501.4	542.1	555.6	550.5
271.0	52.5°	289.7	321.9	355.7	398.1	433.7	459.1	491.2	515.0	508.2
228.7	55°	242.2	281.2	316.8	352.3	396.4	423.5	454.0	482.8	476.0
193.1	57.5°	210.1	242.2	282.9	315.1	359.1	391.3	421.8	452.3	450.6
157.5	60°	176.2	210.1	249.0	282.9	323.5	359.1	389.6	423.5	426.9
118.6	62.5°	138.9	179.6	213.4	252.4	293.1	332.0	359.1	393.0	398.1
89.8	65°	105.0	147.4	184.6	221.9	262.6	304.9	328.6	357.4	362.5
66.1	67.5°	77.9	113.5	157.5	191.4	233.8	274.4	296.4	320.2	328.6
40.7	70°	59.3	86.4	132.1	164.3	208.4	240.5	264.3	284.6	291.4
27.1	72.5°	37.3	67.8	106.7	140.6	179.6	208.4	225.3	237.2	247.3
15.2	75°	25.4	52.5	86.4	120.3	149.1	171.1	186.3	196.5	205.0
6.8	77.5°	15.2	40.7	71.1	99.9	118.6	135.5	150.8	157.5	162.6
5.1	80°	8.5	30.5	59.3	81.3	93.2	105.0	116.9	125.4	128.7
3.4	82.5°	5.1	23.7	47.4	62.7	67.8	79.6	91.5	96.6	96.6
1.7	85°	3.4	16.9	32.2	45.7	49.1	57.6	61.0	64.4	67.8
1.7	87.5°	3.4	10.2	20.3	25.4	27.1	30.5	32.2	35.6	39.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
53149.7
51403.2
48152.5
42999.5
37423.0
30740.3
23463.0
16809.2
12210.1
8895.0
6042.4
3809.7
2432.5
1712.6
1301.0
1040.1
872.4
755.5
669.1
603.0
547.1
506.5
479.4
452.3
428.6
401.5
367.6
332.0
294.7
245.6
203.3
160.9
125.4
94.9
66.1
37.3
0.0

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