

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: P637926

Luminaire Tested: **IFLD-S-SA2A-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7963 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

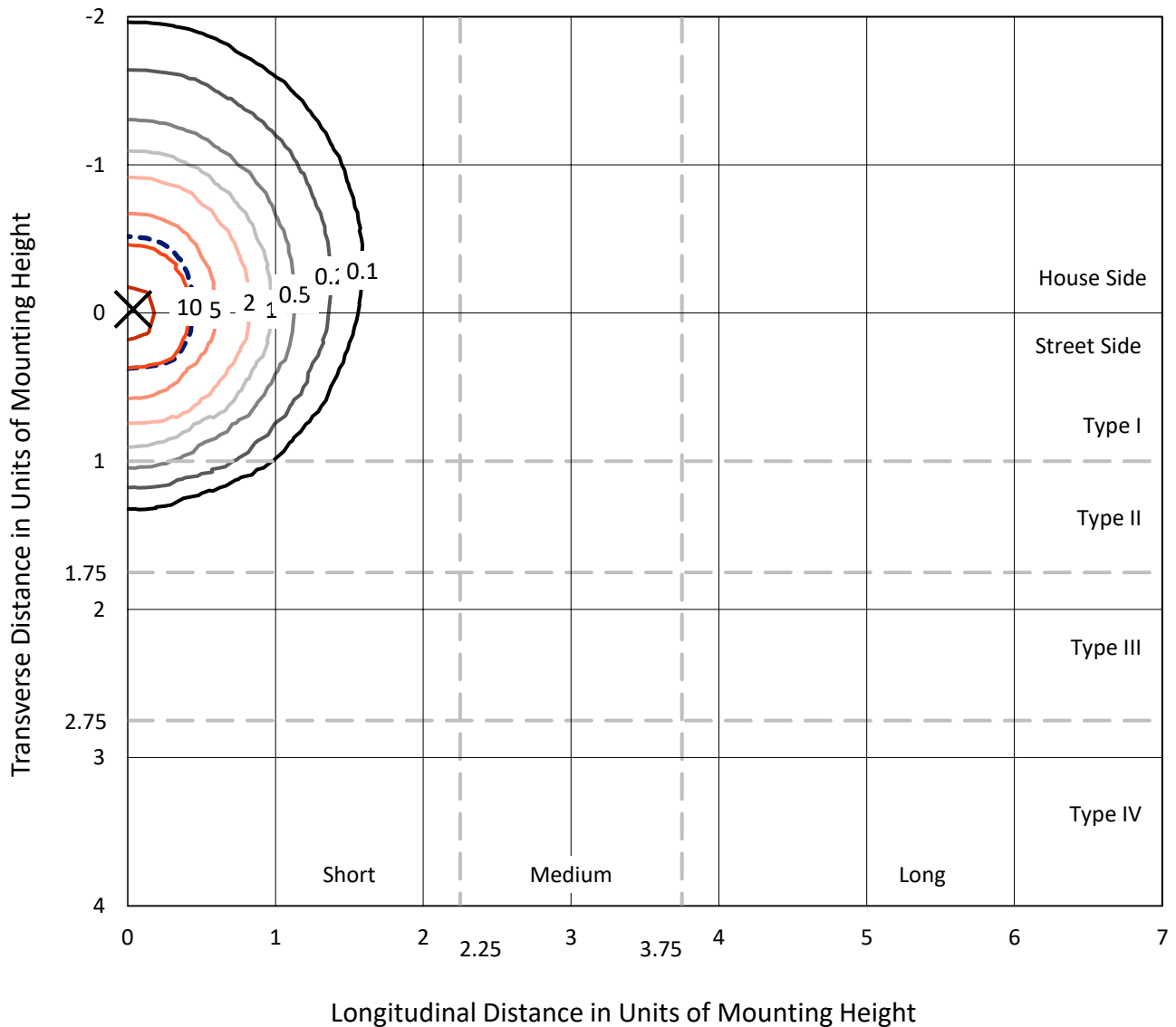
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

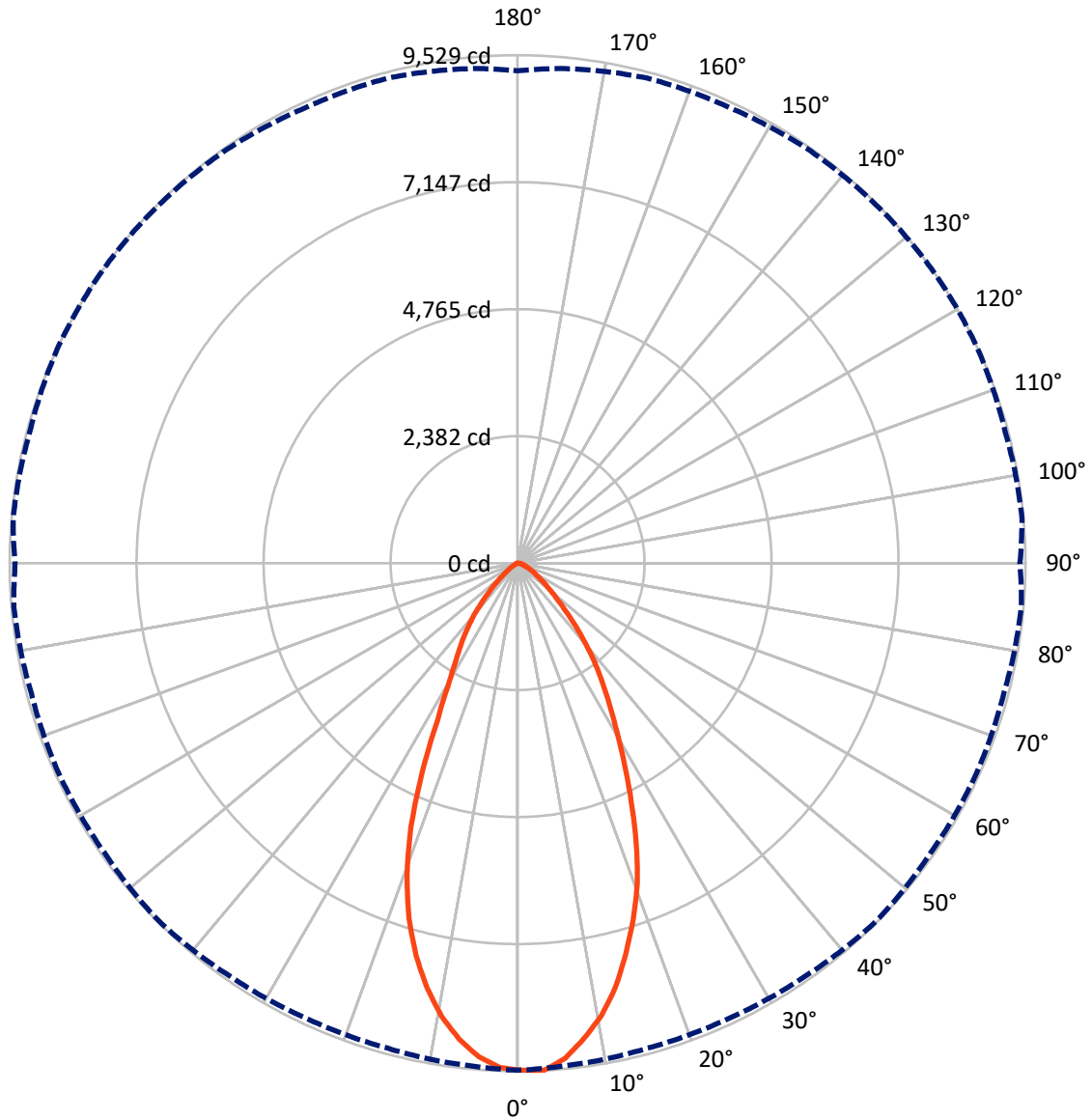
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4518.5	0.0	4518.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3444.5	0.0	3444.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	7963.0	0.0	7963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.9	10.8
10°-20°	2059.3	25.9
20°-30°	2097.4	26.3
30°-40°	1564.0	19.6
40°-50°	817.1	10.3
50°-60°	343.7	4.3
60°-70°	140.4	1.8
70°-80°	59.1	0.7
80°-90°	18.2	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°	7963.0	100.0
0°-180°	7963.0	100.0



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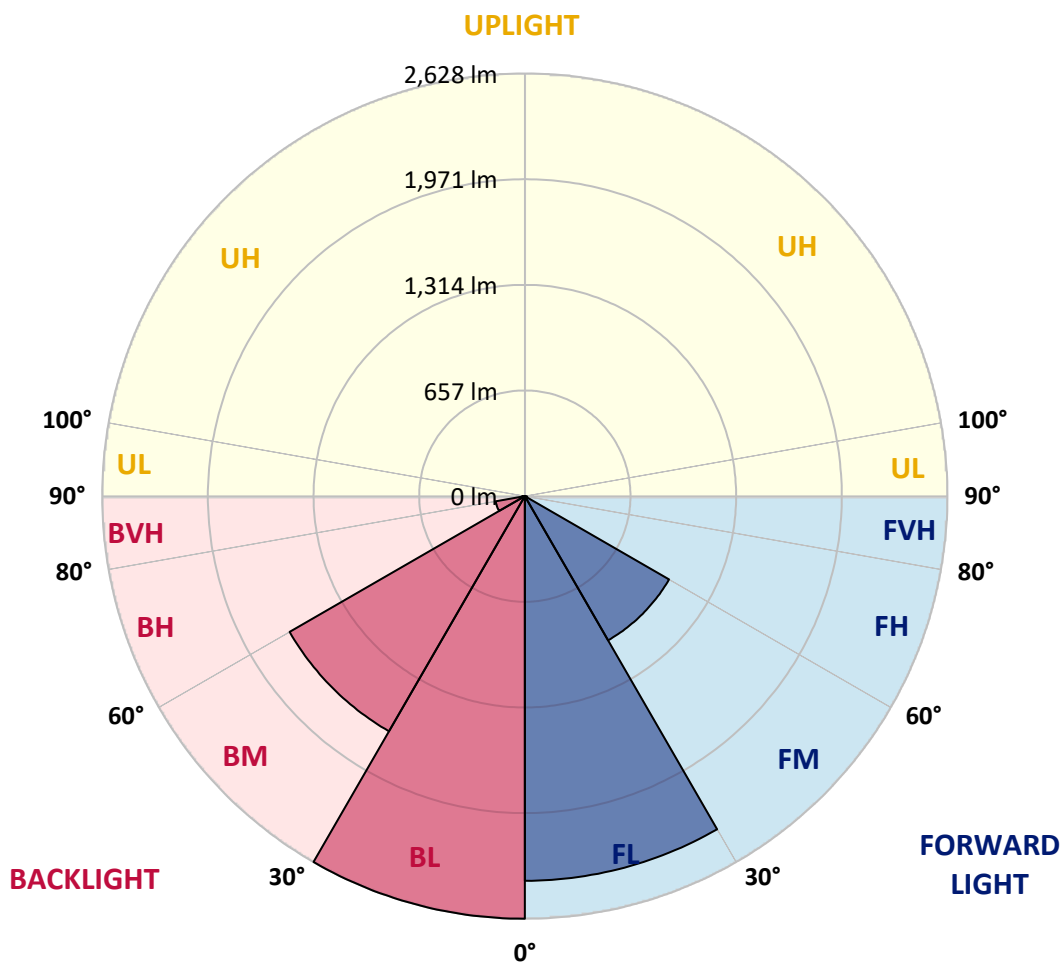
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.2	30.0			
FM (30°-60°)	1035.6	13.0			
FH (60°-80°)	15.0	0.2			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	2628.4	33.0	B4/5000		
BM (30°-60°)	1689.1	21.2	B2/2500		
BH (60°-80°)	184.4	2.3	B1/500		G1/500
BVH (80°-90°)	16.5	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°	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8
2.5°	9514.9	9476.0	9420.8	9415.6	9444.3	9506.7	9466.8	9468.8	9444.3	9486.2
5°	9365.5	9328.7	9290.9	9240.7	9282.7	9309.3	9288.8	9266.3	9234.6	9275.5
7.5°	9083.2	9062.8	9006.5	8984.0	9009.6	9039.2	8995.2	8989.1	8945.1	8998.3
10°	8651.6	8643.4	8588.1	8574.8	8597.3	8642.3	8622.9	8618.8	8591.2	8586.1
12.5°	8203.5	8171.8	8103.3	8099.2	8133.0	8200.5	8148.3	8098.2	8113.5	8126.8
15°	7049.7	7016.0	7185.8	7452.7	7592.9	7587.8	7603.1	7542.7	7524.3	7530.5
17.5°	5604.4	5547.1	5608.5	6021.7	6687.6	7074.3	6967.9	6838.0	6768.4	6722.4
20°	4837.2	4840.3	4829.0	4935.4	5350.7	6232.4	6206.9	5956.3	5865.2	5827.4
22.5°	4370.8	4353.4	4328.8	4362.6	4474.1	4991.7	5338.4	5108.3	5076.6	5034.6
25°	3913.6	3913.6	3883.9	3917.6	3949.4	3956.5	4304.3	4398.4	4337.0	4337.0
27.5°	3517.7	3497.2	3483.9	3499.3	3457.3	3255.8	3299.8	3781.6	3739.7	3714.1
30°	3124.9	3118.8	3096.3	3116.7	2961.2	2734.2	2642.1	3191.4	3235.4	3226.2
32.5°	2579.7	2604.3	2704.5	2736.2	2470.3	2287.2	2199.2	2649.3	2825.2	2818.0
35°	1753.2	1773.7	1888.2	2266.7	2047.8	1916.9	1891.3	2107.1	2396.6	2424.2
37.5°	1396.2	1393.2	1425.9	1493.4	1645.8	1614.1	1607.0	1663.2	1954.7	1967.0
40°	1150.7	1146.7	1145.6	1090.4	1052.5	1342.0	1322.6	1288.8	1541.5	1566.0
42.5°	927.8	931.8	934.9	814.2	759.0	1035.2	1023.9	989.1	1209.0	1237.7
45°	728.3	727.3	733.4	606.6	591.2	661.8	765.1	737.5	912.4	943.1
47.5°	377.4	390.7	473.6	469.5	476.7	469.5	579.0	571.8	686.4	735.5
50°	253.7	257.8	264.9	265.9	375.4	345.7	392.8	445.0	480.8	556.4
52.5°	196.4	199.5	181.1	169.8	230.1	255.7	257.8	307.9	335.5	412.2
55°	109.4	122.7	132.0	133.0	126.8	189.2	188.2	228.1	249.6	300.7
57.5°	14.3	17.4	26.6	85.9	84.9	105.4	132.0	165.7	178.0	219.9
60°	1.0	2.0	3.1	13.3	56.3	61.4	90.0	103.3	123.8	154.5
62.5°	0.0	0.0	1.0	3.1	11.3	35.8	47.1	54.2	72.6	101.3
65°	0.0	0.0	1.0	2.0	4.1	13.3	18.4	29.7	43.0	62.4
67.5°	0.0	0.0	1.0	2.0	3.1	5.1	8.2	13.3	22.5	37.8
70°	0.0	0.0	1.0	2.0	3.1	4.1	6.1	8.2	12.3	20.5
72.5°	0.0	0.0	1.0	1.0	2.0	5.1	5.1	6.1	8.2	11.3
75°	0.0	0.0	1.0	2.0	3.1	5.1	5.1	5.1	6.1	7.2
77.5°	0.0	0.0	1.0	2.0	3.1	5.1	4.1	5.1	5.1	5.1
80°	0.0	0.0	1.0	2.0	3.1	5.1	6.1	5.1	4.1	4.1
82.5°	0.0	0.0	1.0	3.1	3.1	7.2	7.2	7.2	3.1	3.1
85°	0.0	0.0	2.0	3.1	5.1	8.2	8.2	6.1	3.1	2.0
87.5°	0.0	0.0	1.0	2.0	2.0	4.1	6.1	5.1	2.0	1.0
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°
9513.8	0°	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8	9513.8
9424.9	2.5°	9500.5	9475.0	9523.1	9529.2	9508.7	9483.2	9423.8	9418.7	9315.4
9216.2	5°	9320.5	9278.6	9309.3	9329.7	9322.6	9294.9	9270.4	9247.9	9154.8
8877.6	7.5°	8985.0	8969.7	8984.0	8999.3	9029.0	8999.3	8989.1	8965.6	8873.5
8544.2	10°	8612.7	8584.0	8638.3	8631.1	8622.9	8614.7	8571.8	8575.9	8467.4
8090.0	12.5°	8155.5	8107.4	8159.5	8165.7	8159.5	8130.9	8082.8	8103.3	8004.1
7476.3	15°	7540.7	7535.6	7573.4	7598.0	7615.4	7584.7	7568.3	7578.5	7519.2
6686.6	17.5°	6785.8	6852.3	6976.1	7018.0	7019.0	7050.7	7041.5	7029.3	6985.3
5812.0	20°	5898.0	6025.8	6216.1	6411.4	6467.7	6441.1	6428.8	6451.3	6385.9
4990.7	22.5°	5078.6	5188.1	5409.0	5694.4	5859.1	5875.4	5872.4	5852.9	5827.4
4332.9	25°	4383.1	4480.2	4692.0	4952.8	5268.9	5315.9	5318.0	5311.8	5289.3
3736.6	27.5°	3795.9	3913.6	4030.2	4263.4	4599.9	4794.3	4769.7	4762.5	4754.4
3233.3	30°	3264.0	3412.3	3521.8	3667.0	3968.8	4231.7	4257.2	4245.0	4225.5
2817.0	32.5°	2842.6	2930.6	3069.7	3167.9	3384.7	3682.4	3780.6	3771.4	3754.0
2441.6	35°	2476.4	2511.2	2620.6	2730.1	2874.3	3162.8	3308.0	3287.5	3284.5
1989.5	37.5°	2039.6	2156.2	2216.6	2327.1	2428.3	2652.3	2852.8	2843.6	2844.6
1599.8	40°	1646.8	1714.4	1834.0	1927.1	2020.2	2183.9	2406.8	2413.0	2410.9
1238.7	42.5°	1264.3	1329.7	1455.6	1556.8	1639.7	1740.9	1953.7	1960.9	1970.1
964.6	45°	987.1	1029.0	1121.1	1226.4	1314.4	1375.8	1537.4	1583.4	1584.4
747.7	47.5°	766.1	814.2	879.7	980.9	1066.9	1110.9	1228.5	1290.9	1287.8
573.8	50°	601.5	645.4	698.6	778.4	871.5	906.3	993.2	1054.6	1051.5
432.7	52.5°	460.3	516.6	563.6	625.0	716.0	745.7	808.1	878.7	868.4
317.1	55°	348.8	406.1	450.1	501.2	584.1	621.9	664.9	721.1	723.2
245.5	57.5°	262.9	322.2	362.1	414.3	476.7	518.6	551.3	611.7	610.7
167.8	60°	188.2	239.4	287.4	341.6	389.7	437.8	460.3	517.6	519.6
118.7	62.5°	136.0	184.1	230.1	277.2	320.2	367.2	387.7	432.7	438.8
77.7	65°	95.1	128.9	182.1	217.9	265.9	300.7	327.3	366.2	373.4
46.0	67.5°	61.4	93.1	144.2	175.9	219.9	249.6	277.2	307.9	317.1
29.7	70°	36.8	70.6	107.4	141.2	181.1	207.6	234.2	260.8	265.9
14.3	72.5°	23.5	49.1	77.7	114.6	145.2	173.9	197.4	216.9	201.5
9.2	75°	13.3	33.8	61.4	90.0	117.6	145.2	164.7	174.9	140.1
6.1	77.5°	8.2	24.5	50.1	72.6	91.0	116.6	128.9	135.0	100.2
4.1	80°	5.1	18.4	41.9	59.3	59.3	85.9	100.2	105.4	72.6
3.1	82.5°	4.1	13.3	32.7	45.0	39.9	64.4	78.8	79.8	51.1
2.0	85°	3.1	10.2	20.5	29.7	27.6	45.0	46.0	51.1	33.8
2.0	87.5°	2.0	6.1	12.3	17.4	15.3	21.5	24.5	27.6	18.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9513.8
9234.6
9080.1
8854.1
8430.6
7975.4
7447.6
6919.8
6338.8
5778.3
5213.6
4706.3
4201.0
3708.0
3250.7
2811.9
2375.1
1939.4
1557.9
1276.6
1051.5
869.5
723.2
608.6
514.5
436.8
371.3
316.1
261.9
187.2
133.0
94.1
67.5
47.1
30.7
16.4
0.0

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