

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: P636730

Luminaire Tested: **IFLD-L-SA7C-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636730
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21587.8 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

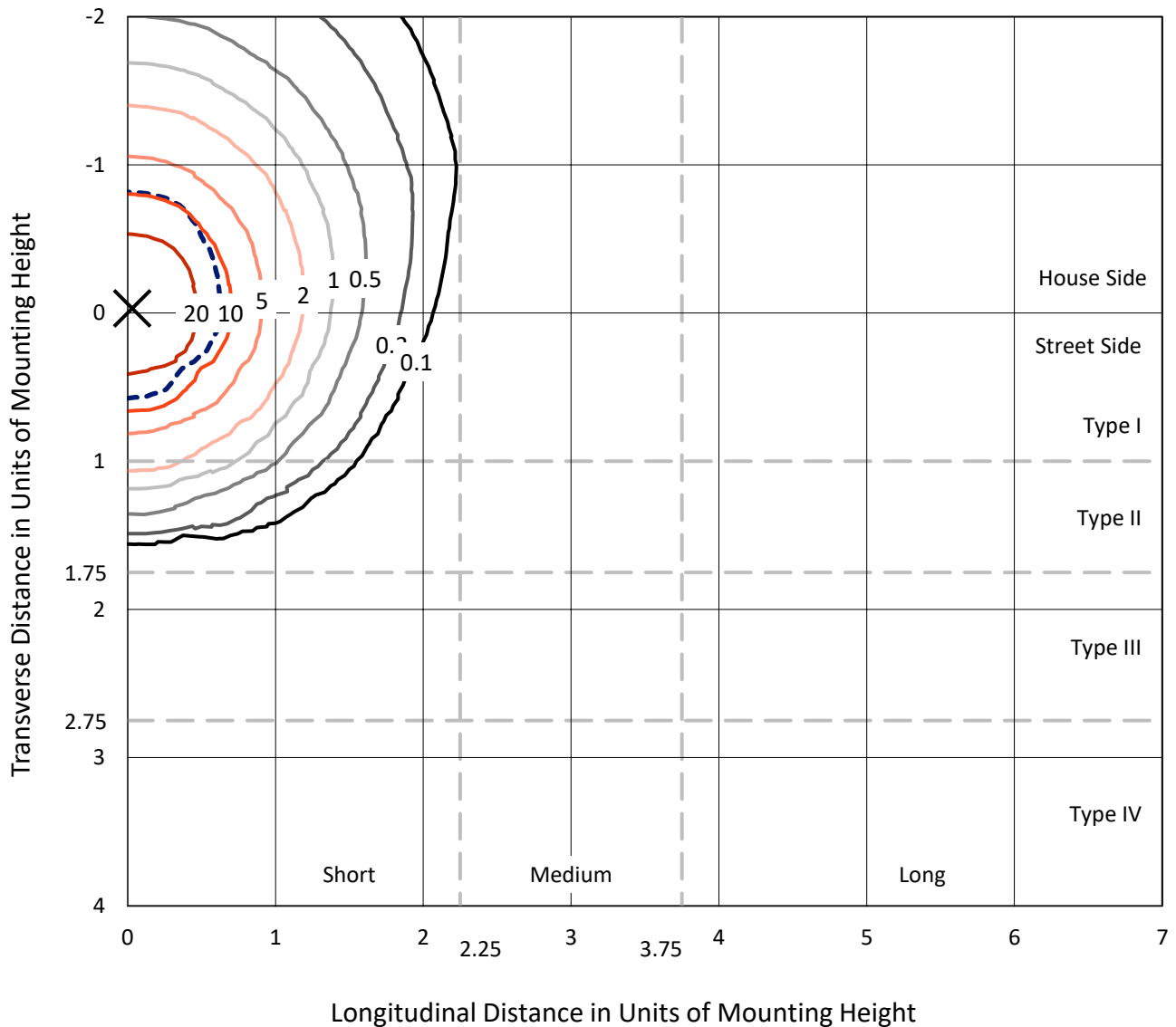
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

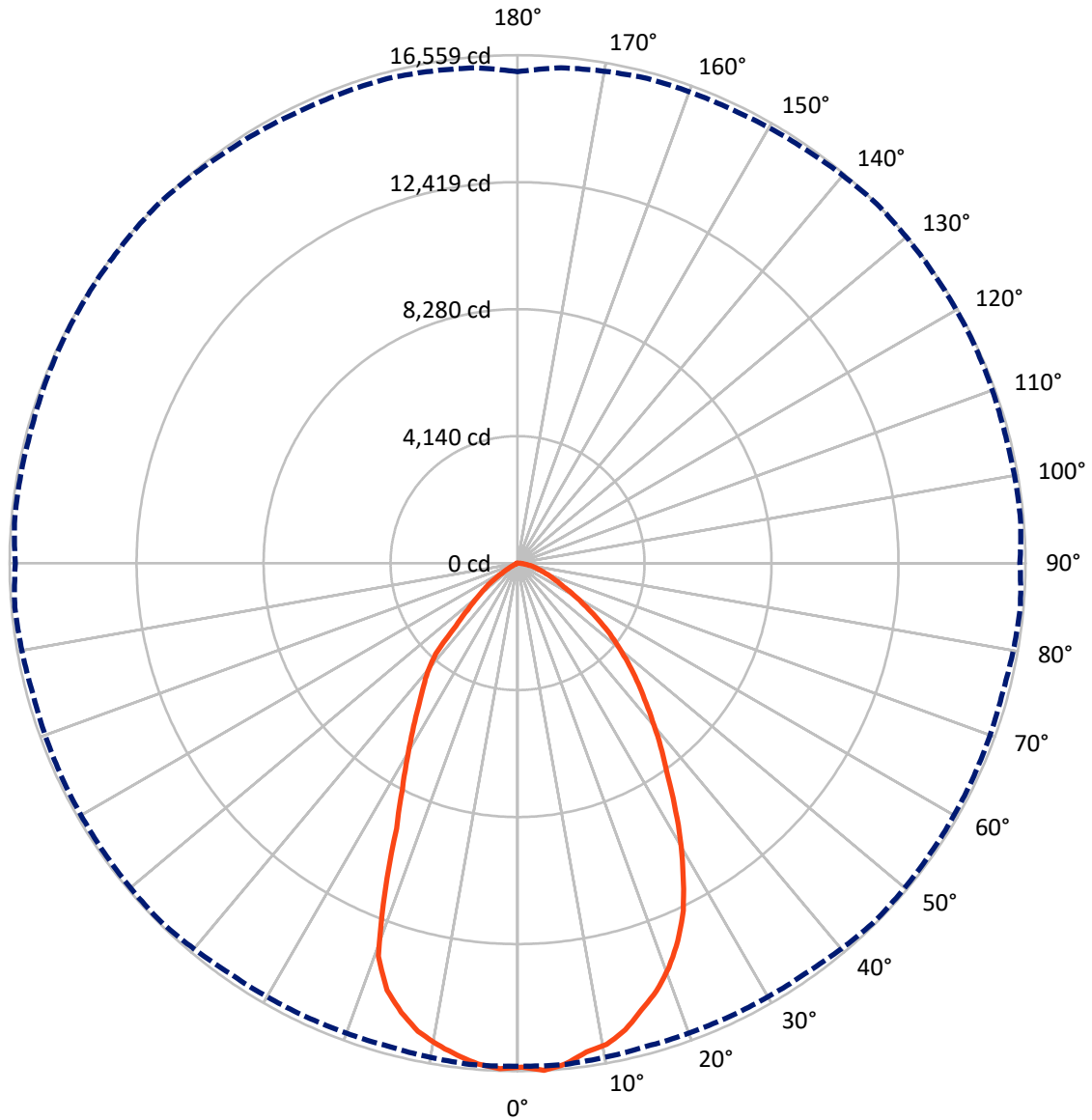
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12785.4	0.0	12785.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8802.4	0.0	8802.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	21587.8	0.0	21587.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1540.7	7.1
10°-20°	4131.5	19.1
20°-30°	5038.6	23.3
30°-40°	4600.2	21.3
40°-50°	3324.5	15.4
50°-60°	1815.2	8.4
60°-70°	750.5	3.5
70°-80°	304.0	1.4
80°-90°	82.7	0.4
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°	21587.8	100.0
0°-180°	21587.8	100.0



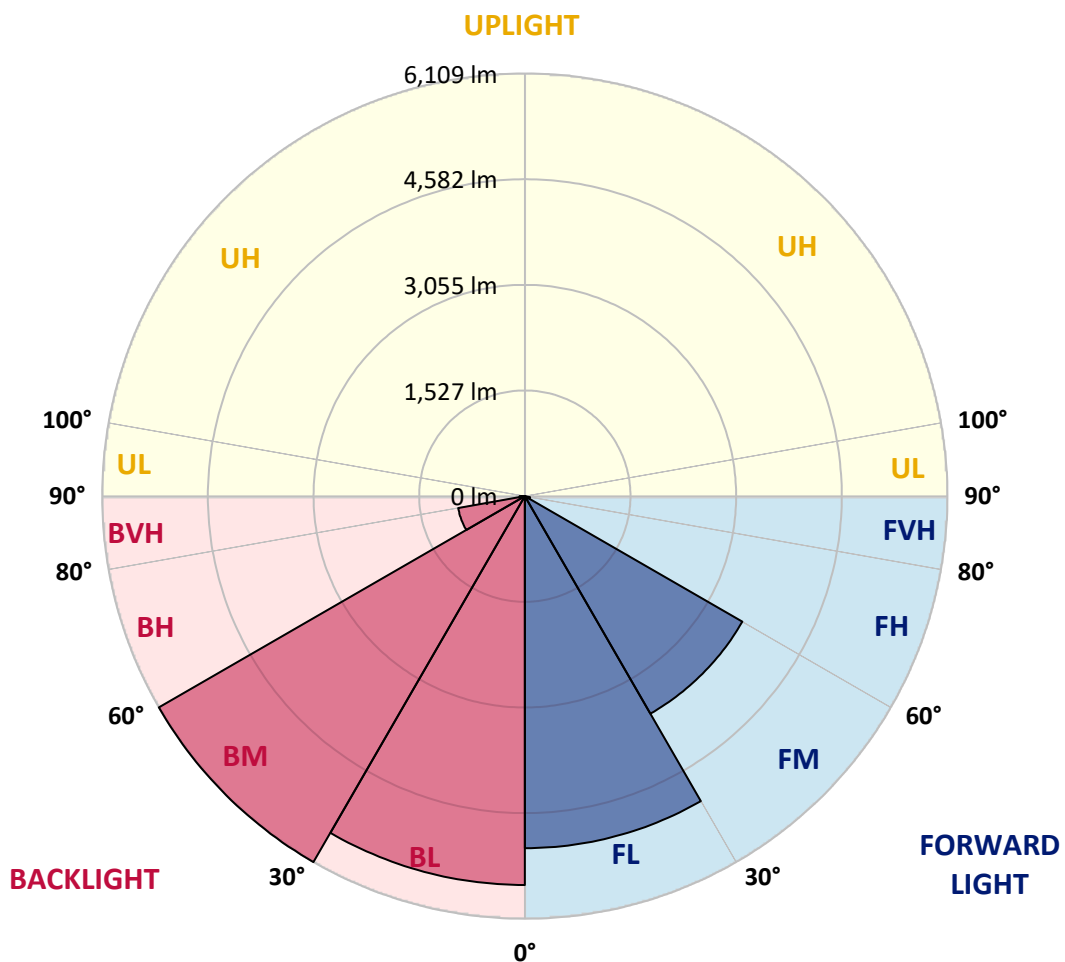
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5089.0	23.6			
FM (30°-60°)	3630.7	16.8			
FH (60°-80°)	76.1	0.4			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	5621.8	26.0	B5		
BM (30°-60°)	6109.2	28.3	B4/8500		
BH (60°-80°)	978.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	76.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3
2.5°	16397.9	16419.1	16303.6	16315.8	16337.1	16492.1	16452.6	16416.1	16364.4	16452.6
5°	16376.6	16388.7	16267.1	16224.6	16242.8	16382.7	16255.0	16255.0	16242.8	16227.6
7.5°	16212.4	16218.5	16124.3	16048.3	16096.9	16160.7	16066.5	16112.1	16045.2	16096.9
10°	15966.2	15926.7	15814.2	15792.9	15847.6	15908.4	15844.6	15887.1	15826.3	15865.9
12.5°	15604.4	15543.6	15452.4	15425.1	15519.3	15601.4	15549.7	15525.4	15446.3	15543.6
15°	14209.1	14163.5	14370.2	14731.9	15057.2	15127.1	15072.4	15096.7	14932.6	14959.9
17.5°	11695.0	11609.8	11831.8	12689.0	13911.1	14555.6	14507.0	14348.9	14105.7	14160.4
20°	10627.9	10603.6	10579.3	10782.9	11637.2	13591.9	13658.8	13257.5	12911.0	12835.0
22.5°	10026.0	10016.9	9992.5	10038.1	10263.1	11518.6	12284.7	11913.8	11682.8	11661.5
25°	9475.7	9460.5	9387.6	9445.3	9445.3	9518.3	10500.2	10725.2	10521.5	10497.2
27.5°	8916.4	8889.0	8876.9	8904.2	8764.4	8271.9	8521.2	9618.6	9512.2	9518.3
30°	8311.4	8302.3	8268.9	8326.6	7894.9	7283.9	7125.8	8615.4	8636.7	8630.6
32.5°	7411.6	7451.1	7603.1	7666.9	6955.6	6450.9	6186.4	7454.1	7888.9	7879.7
35°	5383.9	5383.9	5879.4	6800.5	6095.2	5715.2	5572.4	6320.2	7150.1	7180.5
37.5°	4426.3	4441.5	4538.7	4958.3	5259.2	5125.5	5082.9	5320.0	6201.6	6250.3
40°	3982.4	3982.4	3982.4	3809.1	3800.0	4617.8	4593.5	4517.5	5356.5	5462.9
42.5°	3578.1	3587.2	3593.3	3155.5	2912.3	3991.5	3936.8	3821.3	4599.5	4724.2
45°	3161.6	3176.8	3195.1	2638.7	2532.3	2872.8	3331.9	3204.2	3851.7	4012.8
47.5°	1930.4	1954.7	2368.2	2237.5	2249.6	2216.2	2717.8	2696.5	3158.6	3386.6
50°	1304.2	1313.3	1352.8	1419.7	1930.4	1741.9	1924.3	2231.4	2398.6	2745.1
52.5°	1094.4	1109.6	1012.3	921.1	1267.7	1361.9	1343.7	1656.8	1723.7	2152.3
55°	769.1	817.8	772.2	763.0	720.5	1057.9	1018.4	1273.8	1316.3	1635.5
57.5°	79.0	91.2	158.1	568.5	471.2	598.9	726.6	933.3	975.8	1206.9
60°	6.1	6.1	15.2	79.0	343.5	358.7	501.6	574.6	656.6	842.1
62.5°	0.0	3.0	6.1	12.2	54.7	191.5	252.3	301.0	395.2	544.2
65°	0.0	0.0	3.0	9.1	12.2	73.0	97.3	158.1	215.8	337.4
67.5°	0.0	0.0	3.0	6.1	9.1	18.2	33.4	57.8	115.5	191.5
70°	0.0	0.0	3.0	6.1	9.1	15.2	24.3	36.5	51.7	103.4
72.5°	0.0	0.0	3.0	3.0	6.1	15.2	18.2	24.3	36.5	51.7
75°	0.0	0.0	3.0	3.0	9.1	18.2	15.2	18.2	24.3	33.4
77.5°	0.0	0.0	3.0	6.1	9.1	18.2	15.2	18.2	18.2	21.3
80°	0.0	0.0	3.0	6.1	12.2	21.3	18.2	18.2	15.2	15.2
82.5°	0.0	0.0	3.0	9.1	12.2	27.4	27.4	24.3	12.2	9.1
85°	0.0	0.0	6.1	12.2	18.2	30.4	30.4	24.3	9.1	6.1
87.5°	0.0	0.0	6.1	9.1	15.2	21.3	30.4	24.3	9.1	3.0
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°
16428.3	0°	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3	16428.3
16376.6	2.5°	16458.7	16440.4	16501.2	16525.5	16559.0	16431.3	16352.3	16355.3	16209.4
16191.1	5°	16288.4	16291.5	16370.5	16364.4	16397.9	16327.9	16297.5	16245.9	16118.2
15957.1	7.5°	16072.6	16045.2	16121.2	16179.0	16093.9	16142.5	16072.6	16096.9	16020.9
15750.3	10°	15905.4	15841.5	15911.5	15951.0	15954.0	15905.4	15838.5	15774.7	15747.3
15428.1	12.5°	15534.5	15452.4	15571.0	15625.7	15616.6	15522.3	15446.3	15461.5	15373.4
14862.7	15°	15023.8	15026.8	15111.9	15163.6	15115.0	15093.7	15099.8	15063.3	14987.3
14081.4	17.5°	14242.5	14288.1	14513.1	14637.7	14665.1	14622.5	14601.2	14558.7	14482.7
12835.0	20°	12941.4	13215.0	13616.2	14002.3	14078.3	14066.2	13990.2	13971.9	13929.4
11600.7	22.5°	11798.3	12002.0	12467.1	13069.0	13379.1	13409.5	13318.3	13291.0	13245.4
10497.2	25°	10615.7	10834.6	11254.2	11907.8	12549.2	12679.9	12664.7	12582.6	12534.0
9518.3	27.5°	9618.6	9837.5	10217.5	10807.3	11494.3	11913.8	11953.4	11822.6	11819.6
8645.8	30°	8718.8	9019.7	9308.5	9788.9	10454.6	11083.9	11150.8	11059.6	11068.7
7846.3	32.5°	8013.5	8262.8	8509.0	8831.3	9384.5	10117.2	10378.6	10293.5	10260.1
7180.5	35°	7293.0	7463.2	7715.6	8010.5	8387.4	9114.0	9566.9	9503.1	9469.7
6280.7	37.5°	6472.2	6764.0	6946.4	7277.8	7572.7	8150.3	8788.7	8779.6	8709.7
5514.6	40°	5630.1	5937.2	6213.8	6548.2	6776.2	7235.2	7943.6	7940.5	7949.7
4721.2	42.5°	4867.1	5149.8	5484.2	5849.0	6067.9	6402.3	7162.3	7204.8	7256.5
4067.5	45°	4177.0	4432.3	4742.4	5186.3	5450.8	5642.3	6317.2	6511.7	6508.7
3483.9	47.5°	3556.8	3797.0	4058.4	4490.1	4827.6	5000.8	5560.2	5836.8	5818.6
2857.6	50°	2985.3	3198.1	3471.7	3784.8	4237.8	4389.8	4806.3	5171.1	5143.7
2277.0	52.5°	2401.6	2696.5	2927.5	3213.3	3690.6	3839.5	4161.8	4517.5	4496.2
1708.5	55°	1872.7	2158.4	2438.1	2684.3	3085.6	3307.5	3538.6	3903.4	3897.3
1337.6	57.5°	1416.6	1729.8	1994.3	2228.3	2547.5	2821.1	3006.6	3337.9	3380.5
915.0	60°	1048.8	1289.0	1574.7	1836.2	2088.5	2371.2	2495.9	2821.1	2839.4
626.2	62.5°	714.4	978.9	1258.6	1495.7	1684.2	1976.0	2088.5	2356.0	2389.5
401.3	65°	495.5	665.8	985.0	1155.2	1386.2	1635.5	1748.0	1960.8	2027.7
231.0	67.5°	328.3	474.2	769.1	924.2	1152.2	1322.4	1465.3	1638.6	1711.5
145.9	70°	179.4	349.6	550.2	729.6	927.2	1091.4	1231.2	1371.0	1434.9
66.9	72.5°	121.6	234.1	383.0	577.6	747.8	909.0	1033.6	1137.0	1140.0
39.5	75°	60.8	158.1	291.8	446.9	583.7	741.8	854.2	915.0	842.1
24.3	77.5°	36.5	115.5	237.1	358.7	474.2	598.9	662.7	696.2	577.6
18.2	80°	21.3	82.1	185.4	285.8	328.3	440.8	501.6	510.7	386.1
12.2	82.5°	15.2	60.8	145.9	209.8	200.6	310.1	377.0	364.8	246.2
9.1	85°	9.1	42.6	91.2	130.7	121.6	203.7	218.9	225.0	142.9
6.1	87.5°	6.1	24.3	48.6	69.9	57.8	88.2	88.2	106.4	69.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16428.3
16020.9
16087.8
15893.2
15625.7
15297.4
14911.3
14449.2
13832.1
13233.2
12482.3
11813.5
11023.1
10263.1
9424.1
8767.4
7949.7
7229.2
6514.8
5824.7
5168.0
4541.8
3912.5
3362.3
2866.7
2395.5
2012.5
1702.4
1410.6
1112.6
787.4
556.3
361.8
228.0
130.7
60.8
0.0

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