

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: P638084

Luminaire Tested: **IFLD-S-SA6D-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638084
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29411.4 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

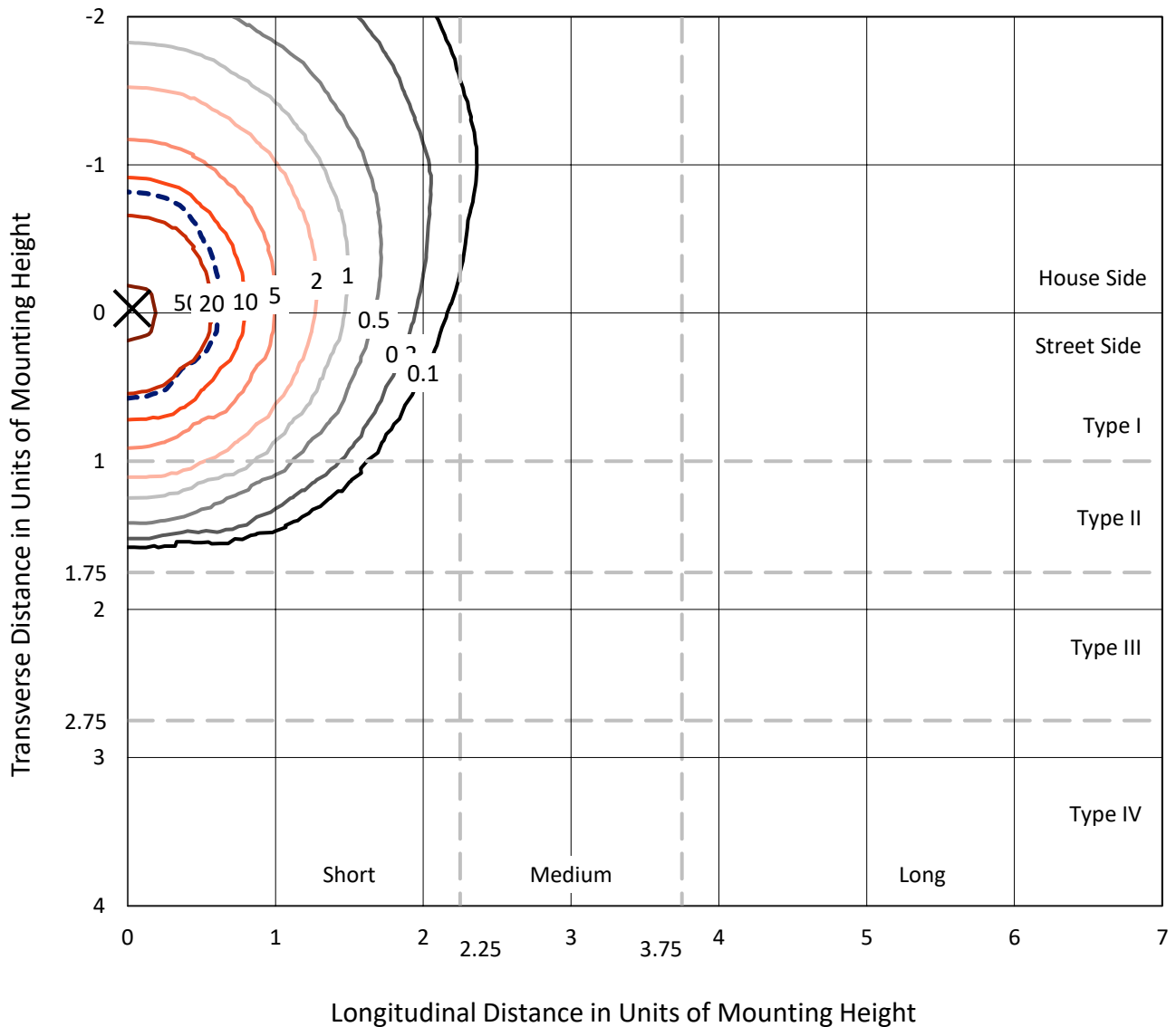
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

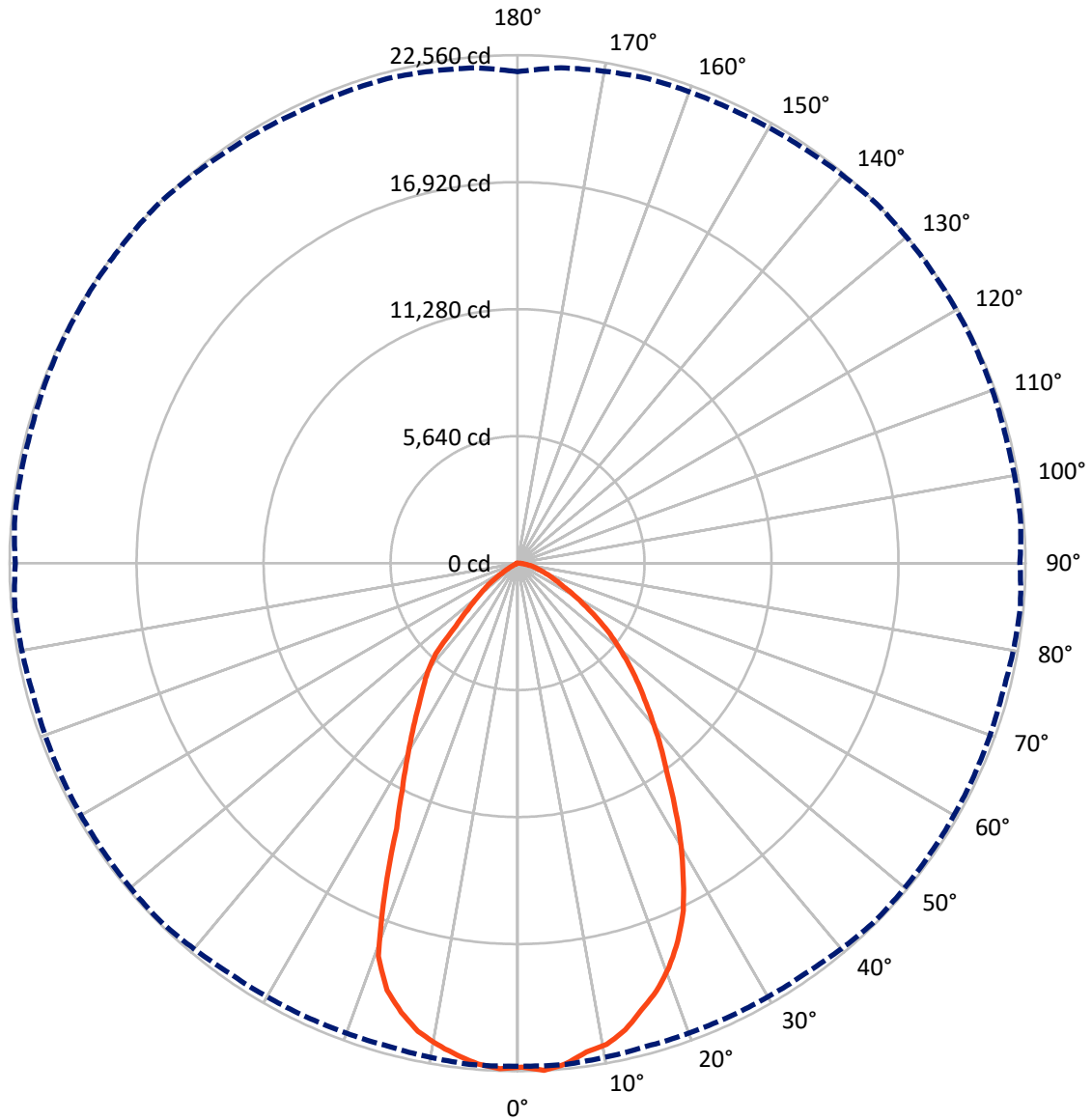
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56 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	17419.0	0.0	17419.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11992.5	0.0	11992.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	29411.4	0.0	29411.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2099.1	7.1
10°-20°	5628.8	19.1
20°-30°	6864.6	23.3
30°-40°	6267.3	21.3
40°-50°	4529.3	15.4
50°-60°	2473.0	8.4
60°-70°	1022.5	3.5
70°-80°	414.1	1.4
80°-90°	112.7	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°	29411.4	100.0
0°-180°	29411.4	100.0



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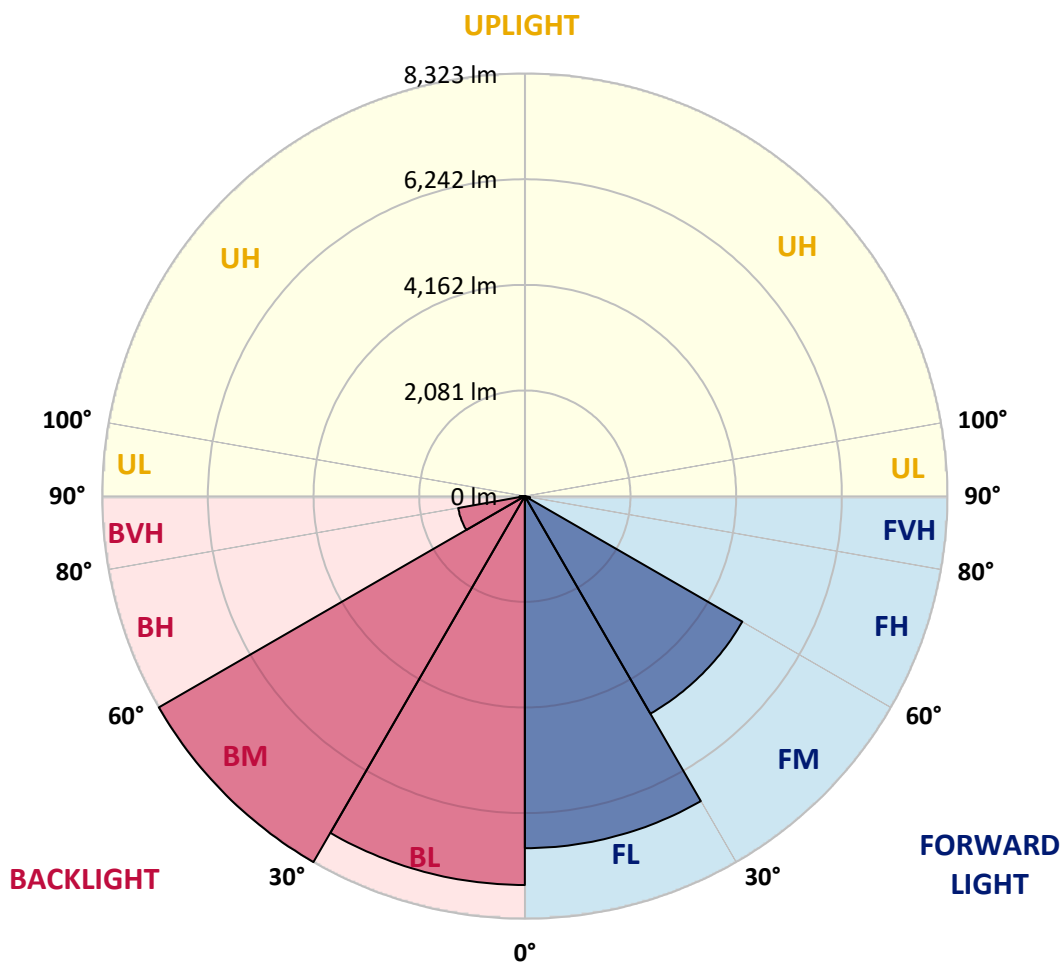
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6933.4	23.6			
FM (30°-60°)	4946.5	16.8			
FH (60°-80°)	103.6	0.4			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	7659.2	26.0	B5		
BM (30°-60°)	8323.2	28.3	B4/8500		
BH (60°-80°)	1333.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0
2.5°	22340.6	22369.6	22212.2	22228.8	22257.8	22469.0	22415.1	22365.4	22295.0	22415.1
5°	22311.6	22328.2	22162.5	22104.5	22129.4	22319.9	22145.9	22145.9	22129.4	22108.7
7.5°	22087.9	22096.2	21967.8	21864.3	21930.6	22017.5	21889.1	21951.3	21860.1	21930.6
10°	21752.5	21698.6	21545.4	21516.4	21590.9	21673.8	21586.8	21644.8	21561.9	21615.8
12.5°	21259.6	21176.8	21052.5	21015.2	21143.6	21255.5	21185.0	21151.9	21044.2	21176.8
15°	19358.5	19296.4	19578.0	20070.9	20514.1	20609.3	20534.8	20567.9	20344.3	20381.5
17.5°	15933.3	15817.3	16119.7	17287.7	18952.6	19830.7	19764.4	19549.1	19217.7	19292.3
20°	14479.6	14446.4	14413.3	14690.8	15854.6	18517.8	18608.9	18062.2	17590.0	17486.5
22.5°	13659.5	13647.1	13613.9	13676.1	13982.5	15693.1	16736.8	16231.5	15916.7	15887.7
25°	12909.8	12889.1	12789.7	12868.4	12868.4	12967.8	14305.6	14612.1	14334.6	14301.5
27.5°	12147.7	12110.5	12093.9	12131.2	11940.7	11269.7	11609.3	13104.5	12959.5	12967.8
30°	11323.5	11311.1	11265.6	11344.2	10756.1	9923.6	9708.3	11737.7	11766.7	11758.4
32.5°	10097.6	10151.4	10358.5	10445.5	9476.3	8788.8	8428.5	10155.6	10747.8	10735.4
35°	7335.0	7335.0	8010.1	9265.1	8304.2	7786.5	7591.8	8610.7	9741.4	9782.8
37.5°	6030.4	6051.1	6183.6	6755.2	7165.2	6983.0	6925.0	7248.1	8449.2	8515.4
40°	5425.7	5425.7	5425.7	5189.6	5177.2	6291.3	6258.2	6154.6	7297.8	7442.7
42.5°	4874.8	4887.3	4895.5	4299.1	3967.8	5438.1	5363.6	5206.2	6266.5	6436.3
45°	4307.4	4328.1	4353.0	3595.0	3450.1	3914.0	4539.4	4365.4	5247.6	5467.1
47.5°	2630.0	2663.1	3226.4	3048.3	3064.9	3019.3	3702.7	3673.7	4303.3	4613.9
50°	1776.8	1789.2	1843.1	1934.2	2630.0	2373.2	2621.7	3040.0	3267.8	3740.0
52.5°	1491.0	1511.7	1379.2	1254.9	1727.1	1855.5	1830.7	2257.3	2348.4	2932.4
55°	1047.9	1114.1	1052.0	1039.6	981.6	1441.3	1387.5	1735.4	1793.4	2228.3
57.5°	107.7	124.3	215.4	774.5	642.0	815.9	989.9	1271.5	1329.5	1644.3
60°	8.3	8.3	20.7	107.7	468.0	488.7	683.4	782.8	894.6	1147.3
62.5°	0.0	4.1	8.3	16.6	74.6	260.9	343.8	410.0	538.4	741.4
65°	0.0	0.0	4.1	12.4	16.6	99.4	132.5	215.4	294.1	459.7
67.5°	0.0	0.0	4.1	8.3	12.4	24.9	45.6	78.7	157.4	260.9
70°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	49.7	70.4	140.8
72.5°	0.0	0.0	4.1	4.1	8.3	20.7	24.9	33.1	49.7	70.4
75°	0.0	0.0	4.1	4.1	12.4	24.9	20.7	24.9	33.1	45.6
77.5°	0.0	0.0	4.1	8.3	12.4	24.9	20.7	24.9	24.9	29.0
80°	0.0	0.0	4.1	8.3	16.6	29.0	24.9	24.9	20.7	20.7
82.5°	0.0	0.0	4.1	12.4	16.6	37.3	37.3	33.1	16.6	12.4
85°	0.0	0.0	8.3	16.6	24.9	41.4	41.4	33.1	12.4	8.3
87.5°	0.0	0.0	8.3	12.4	20.7	29.0	41.4	33.1	12.4	4.1
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°
22382.0	0°	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0	22382.0
22311.6	2.5°	22423.4	22398.6	22481.4	22514.5	22560.1	22386.2	22278.5	22282.6	22083.8
22059.0	5°	22191.5	22195.6	22303.3	22295.0	22340.6	22245.3	22203.9	22133.5	21959.6
21740.0	7.5°	21897.4	21860.1	21963.7	22042.4	21926.4	21992.7	21897.4	21930.6	21827.0
21458.4	10°	21669.6	21582.7	21677.9	21731.8	21735.9	21669.6	21578.5	21491.5	21454.3
21019.4	12.5°	21164.3	21052.5	21214.0	21288.6	21276.2	21147.8	21044.2	21064.9	20944.8
20249.0	15°	20468.5	20472.7	20588.6	20659.0	20592.8	20563.8	20572.1	20522.4	20418.8
19184.6	17.5°	19404.1	19466.2	19772.7	19942.5	19979.8	19921.8	19892.8	19834.8	19731.3
17486.5	20°	17631.4	18004.2	18550.9	19076.9	19180.4	19163.9	19060.3	19035.5	18977.5
15804.9	22.5°	16074.1	16351.6	16985.3	17805.4	18227.8	18269.3	18145.0	18107.7	18045.6
14301.5	25°	14463.0	14761.2	15332.8	16223.2	17097.1	17275.2	17254.5	17142.7	17076.4
12967.8	27.5°	13104.5	13402.7	13920.4	14723.9	15660.0	16231.5	16285.4	16107.3	16103.1
11779.1	30°	11878.5	12288.6	12682.0	13336.4	14243.5	15100.8	15191.9	15067.7	15080.1
10689.9	32.5°	10917.6	11257.3	11592.8	12031.8	12785.6	13783.7	14139.9	14024.0	13978.4
9782.8	35°	9936.1	10168.0	10511.8	10913.5	11427.1	12417.0	13034.1	12947.1	12901.5
8556.9	37.5°	8817.8	9215.4	9463.9	9915.3	10317.1	11104.0	11973.8	11961.4	11866.1
7513.1	40°	7670.5	8088.8	8465.7	8921.3	9232.0	9857.4	10822.4	10818.2	10830.7
6432.1	42.5°	6630.9	7016.1	7471.7	7968.7	8266.9	8722.5	9758.0	9815.9	9886.4
5541.7	45°	5690.8	6038.7	6461.1	7065.8	7426.2	7687.1	8606.6	8871.6	8867.5
4746.4	47.5°	4845.8	5173.0	5529.2	6117.4	6577.1	6813.2	7575.3	7952.2	7927.3
3893.2	50°	4067.2	4357.1	4729.9	5156.5	5773.6	5980.7	6548.1	7045.1	7007.8
3102.2	52.5°	3272.0	3673.7	3988.5	4377.8	5028.1	5231.0	5670.1	6154.6	6125.6
2327.7	55°	2551.3	2940.6	3321.7	3657.2	4203.9	4506.2	4821.0	5318.0	5309.7
1822.4	57.5°	1930.1	2356.7	2717.0	3035.9	3470.8	3843.5	4096.2	4547.6	4605.6
1246.7	60°	1428.9	1756.1	2145.4	2501.6	2845.4	3230.6	3400.4	3843.5	3868.4
853.2	62.5°	973.3	1333.6	1714.7	2037.7	2294.5	2692.1	2845.4	3209.9	3255.4
546.7	65°	675.1	907.0	1341.9	1573.9	1888.6	2228.3	2381.5	2671.4	2762.5
314.8	67.5°	447.3	646.1	1047.9	1259.1	1569.7	1801.7	1996.3	2232.4	2331.8
198.8	70°	244.4	476.3	749.7	994.0	1263.2	1486.9	1677.4	1867.9	1954.9
91.1	72.5°	165.7	318.9	521.9	786.9	1018.9	1238.4	1408.2	1549.0	1553.2
53.8	75°	82.8	215.4	397.6	608.8	795.2	1010.6	1163.8	1246.7	1147.3
33.1	77.5°	49.7	157.4	323.1	488.7	646.1	815.9	902.9	948.5	786.9
24.9	80°	29.0	111.8	252.6	389.3	447.3	600.6	683.4	695.8	526.0
16.6	82.5°	20.7	82.8	198.8	285.8	273.4	422.5	513.6	497.0	335.5
12.4	85°	12.4	58.0	124.3	178.1	165.7	277.5	298.2	306.5	194.7
8.3	87.5°	8.3	33.1	66.3	95.3	78.7	120.1	120.1	145.0	95.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22382.0
21827.0
21918.1
21653.1
21288.6
20841.3
20315.3
19685.7
18845.0
18029.0
17006.0
16094.8
15018.0
13982.5
12839.4
11944.8
10830.7
9849.1
8875.8
7935.6
7041.0
6187.8
5330.4
4580.8
3905.7
3263.7
2741.8
2319.4
1921.8
1515.9
1072.7
757.9
492.9
310.6
178.1
82.8
0.0

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