

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: P637933

Luminaire Tested: **IFLD-S-SA3C-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18269.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

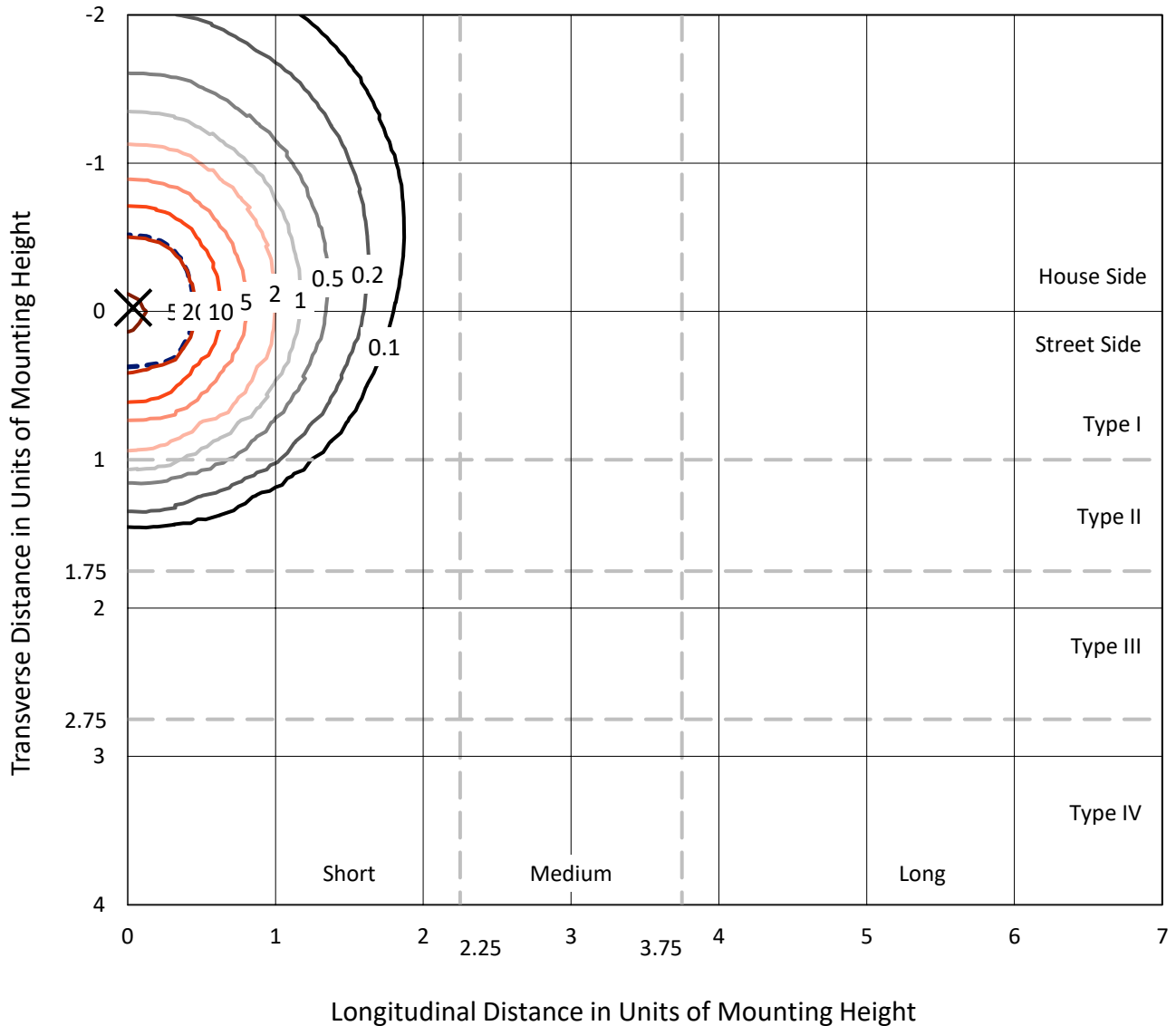
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

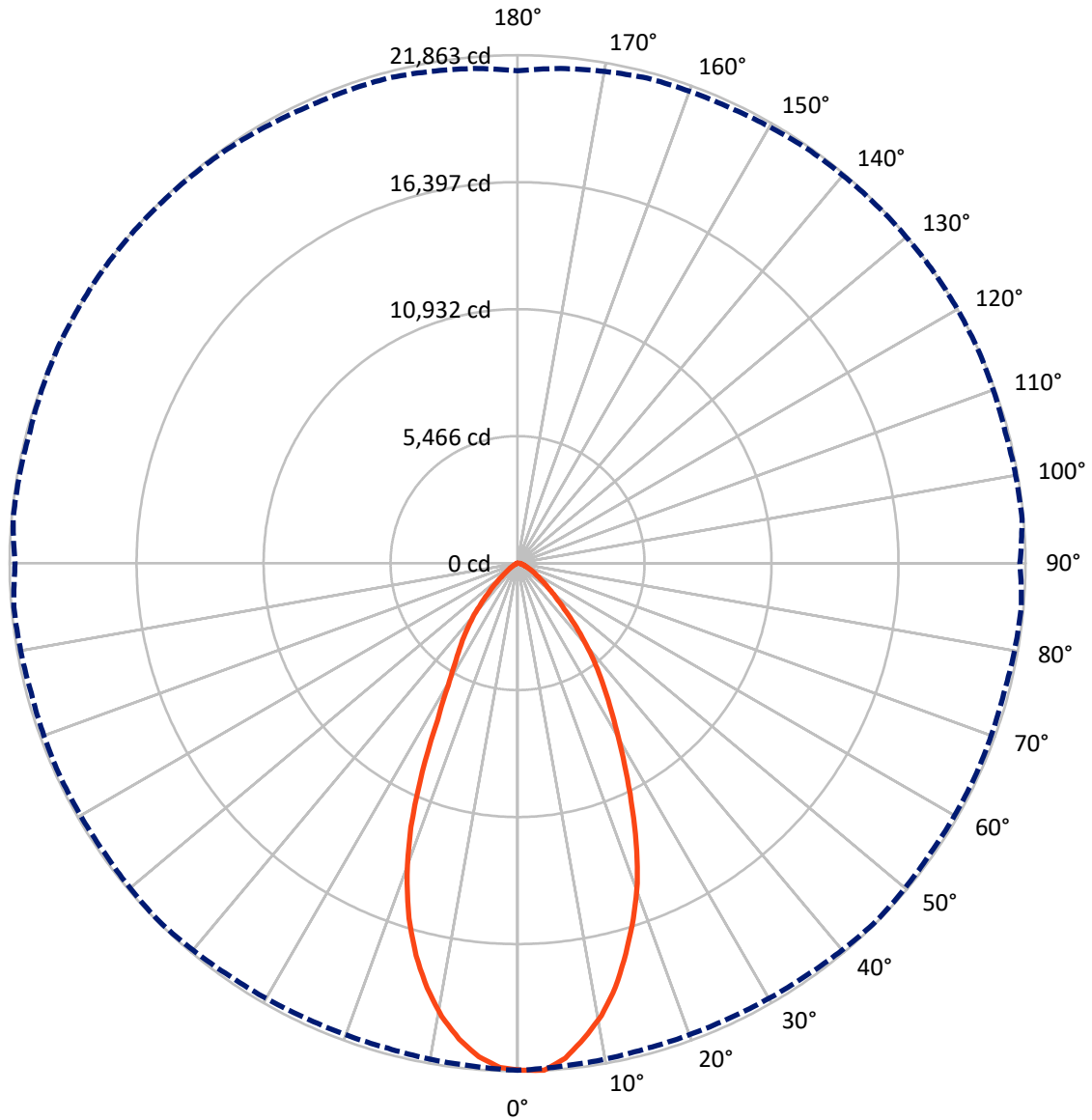
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.6 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	10367.1	0.0	10367.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7902.8	0.0	7902.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	18269.9	0.0	18269.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1982.1	10.8
10°-20°	4724.8	25.9
20°-30°	4812.1	26.3
30°-40°	3588.4	19.6
40°-50°	1874.7	10.3
50°-60°	788.5	4.3
60°-70°	322.0	1.8
70°-80°	135.5	0.7
80°-90°	41.7	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°	18269.9	100.0
0°-180°	18269.9	100.0



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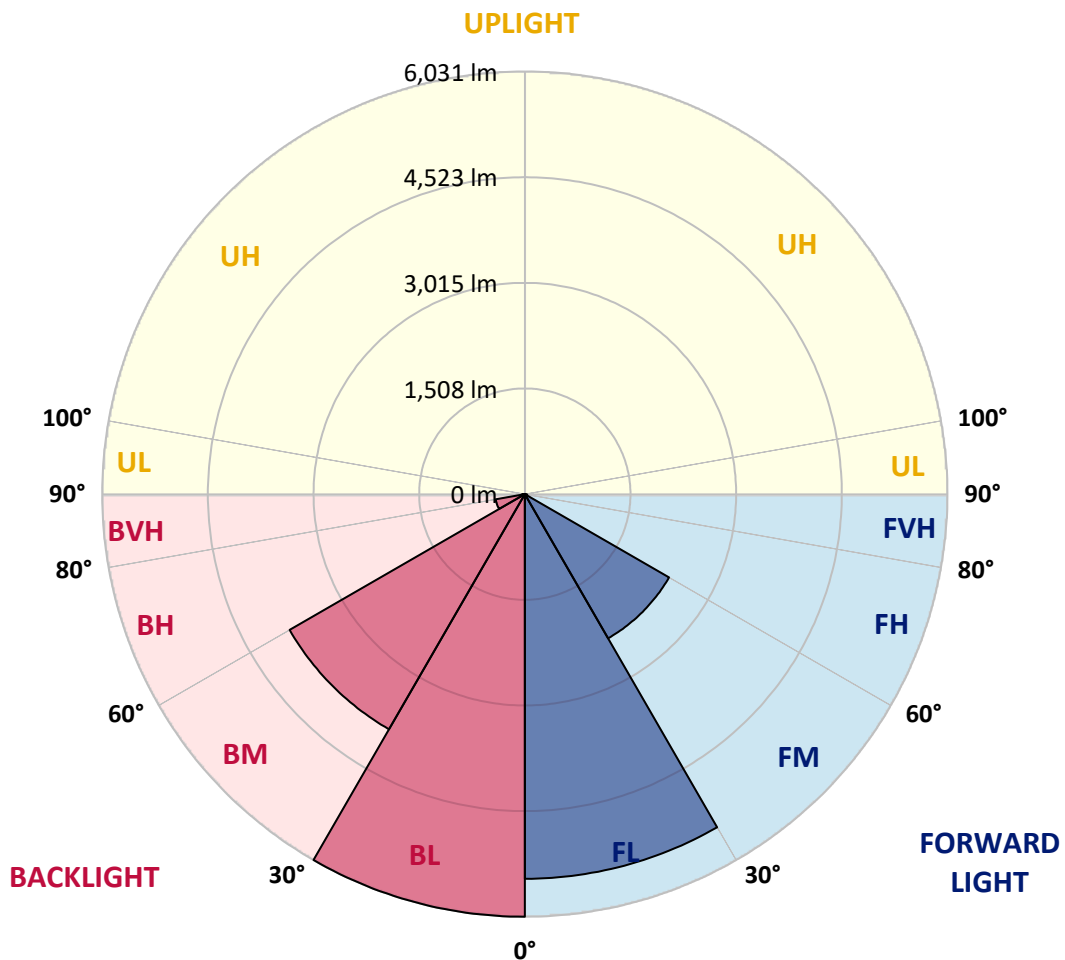
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5488.5	30.0			
FM (30°-60°)	2376.1	13.0			
FH (60°-80°)	34.4	0.2			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	6030.5	33.0	B5		
BM (30°-60°)	3875.5	21.2	B3/5000		
BH (60°-80°)	423.2	2.3	B1/500		G1/500
BVH (80°-90°)	37.9	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1
2.5°	21830.5	21741.3	21614.6	21602.8	21668.5	21811.7	21720.2	21724.9	21668.5	21764.8
5°	21487.8	21403.3	21316.5	21201.5	21297.7	21358.8	21311.8	21260.2	21187.4	21281.3
7.5°	20840.1	20793.2	20664.1	20612.5	20671.1	20739.2	20638.3	20624.2	20523.3	20645.3
10°	19849.7	19831.0	19704.2	19673.7	19725.3	19828.6	19784.0	19774.6	19711.3	19699.5
12.5°	18821.8	18749.1	18591.8	18582.4	18659.9	18814.8	18695.1	18580.1	18615.3	18645.8
15°	16174.5	16097.1	16486.7	17099.2	17420.7	17409.0	17444.2	17305.7	17263.5	17277.6
17.5°	12858.4	12727.0	12867.8	13816.0	15343.8	16230.9	15986.8	15688.7	15529.2	15423.6
20°	11098.3	11105.3	11079.5	11323.6	12276.4	14299.4	14240.7	13665.8	13456.9	13370.1
22.5°	10028.1	9988.2	9931.9	10009.4	10265.2	11452.7	12248.3	11720.2	11647.5	11551.2
25°	8979.1	8979.1	8911.0	8988.5	9061.2	9077.6	9875.6	10091.5	9950.7	9950.7
27.5°	8070.8	8023.9	7993.4	8028.6	7932.4	7470.1	7571.0	8676.3	8580.1	8521.4
30°	7169.7	7155.6	7103.9	7150.9	6794.2	6273.2	6061.9	7322.2	7423.1	7402.0
32.5°	5918.8	5975.1	6205.1	6277.8	5667.7	5247.6	5045.7	6078.4	6482.0	6465.6
35°	4022.5	4069.5	4332.3	5200.6	4698.4	4398.0	4339.3	4834.5	5498.7	5562.1
37.5°	3203.5	3196.4	3271.5	3426.4	3776.1	3703.3	3686.9	3816.0	4484.8	4513.0
40°	2640.2	2630.8	2628.5	2501.8	2414.9	3079.1	3034.5	2957.0	3536.7	3593.0
42.5°	2128.6	2138.0	2145.0	1868.1	1741.4	2375.0	2349.2	2269.4	2774.0	2839.7
45°	1671.0	1668.6	1682.7	1391.7	1356.5	1518.4	1755.5	1692.1	2093.4	2163.8
47.5°	866.0	896.5	1086.6	1077.2	1093.6	1077.2	1328.3	1311.9	1574.7	1687.4
50°	582.0	591.4	607.8	610.2	861.3	793.2	901.2	1020.9	1103.0	1276.7
52.5°	450.6	457.6	415.4	389.6	528.0	586.7	591.4	706.4	769.8	945.8
55°	251.1	281.6	302.7	305.1	291.0	434.2	431.8	523.3	572.6	690.0
57.5°	32.9	39.9	61.0	197.1	194.8	241.7	302.7	380.2	408.4	504.6
60°	2.3	4.7	7.0	30.5	129.1	140.8	206.5	237.0	284.0	354.4
62.5°	0.0	0.0	2.3	7.0	25.8	82.1	108.0	124.4	166.6	232.3
65°	0.0	0.0	2.3	4.7	9.4	30.5	42.2	68.1	98.6	143.2
67.5°	0.0	0.0	2.3	4.7	7.0	11.7	18.8	30.5	51.6	86.8
70°	0.0	0.0	2.3	4.7	7.0	9.4	14.1	18.8	28.2	46.9
72.5°	0.0	0.0	2.3	2.3	4.7	11.7	11.7	14.1	18.8	25.8
75°	0.0	0.0	2.3	4.7	7.0	11.7	11.7	11.7	14.1	16.4
77.5°	0.0	0.0	2.3	4.7	7.0	11.7	9.4	11.7	11.7	11.7
80°	0.0	0.0	2.3	4.7	7.0	11.7	14.1	11.7	9.4	9.4
82.5°	0.0	0.0	2.3	7.0	7.0	16.4	16.4	16.4	7.0	7.0
85°	0.0	0.0	4.7	7.0	11.7	18.8	18.8	14.1	7.0	4.7
87.5°	0.0	0.0	2.3	4.7	4.7	9.4	14.1	11.7	4.7	2.3
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°
21828.1	0°	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1	21828.1
21624.0	2.5°	21797.6	21738.9	21849.3	21863.3	21816.4	21757.7	21621.6	21609.9	21372.8
21145.2	5°	21384.6	21288.4	21358.8	21405.7	21389.3	21325.9	21269.6	21217.9	21004.4
20368.4	7.5°	20614.8	20579.6	20612.5	20647.7	20715.7	20647.7	20624.2	20570.2	20359.0
19603.3	10°	19760.5	19694.8	19819.2	19802.8	19784.0	19765.2	19666.7	19676.1	19427.3
18561.3	12.5°	18711.5	18601.2	18720.9	18735.0	18720.9	18655.2	18544.9	18591.8	18364.2
17153.2	15°	17301.0	17289.3	17376.1	17432.5	17472.4	17402.0	17364.4	17387.9	17251.8
15341.4	17.5°	15569.1	15721.6	16005.6	16101.8	16104.1	16176.9	16155.8	16127.6	16026.7
13334.8	20°	13532.0	13825.3	14261.9	14710.1	14839.2	14778.2	14750.0	14801.6	14651.4
11450.3	22.5°	11652.2	11903.3	12410.2	13065.0	13442.8	13480.4	13473.3	13428.7	13370.1
9941.3	25°	10056.3	10279.2	10765.0	11363.5	12088.7	12196.6	12201.3	12187.2	12135.6
8573.1	27.5°	8709.2	8979.1	9246.6	9781.7	10553.8	10999.7	10943.4	10927.0	10908.2
7418.4	30°	7488.8	7829.1	8080.2	8413.5	9105.8	9709.0	9767.6	9739.5	9694.9
6463.2	32.5°	6521.9	6723.7	7042.9	7268.2	7765.8	8448.7	8674.0	8652.9	8613.0
5602.0	35°	5681.7	5761.5	6012.7	6263.8	6594.7	7256.5	7589.7	7542.8	7535.8
4564.6	37.5°	4679.6	4947.2	5085.6	5339.1	5571.4	6085.4	6545.4	6524.3	6526.6
3670.5	40°	3778.4	3933.3	4207.9	4421.5	4635.0	5010.5	5522.2	5536.2	5531.5
2842.0	42.5°	2900.7	3050.9	3339.6	3571.9	3762.0	3994.4	4482.5	4498.9	4520.0
2213.1	45°	2264.7	2360.9	2572.2	2813.9	3015.7	3156.5	3527.3	3632.9	3635.3
1715.6	47.5°	1757.8	1868.1	2018.3	2250.6	2447.8	2548.7	2818.6	2961.7	2954.7
1316.6	50°	1380.0	1480.9	1602.9	1786.0	1999.5	2079.3	2278.8	2419.6	2412.6
992.7	52.5°	1056.1	1185.2	1293.1	1433.9	1642.8	1710.9	1854.0	2016.0	1992.5
727.5	55°	800.3	931.7	1032.6	1150.0	1340.1	1426.9	1525.5	1654.5	1659.2
563.2	57.5°	603.1	739.3	830.8	950.5	1093.6	1189.9	1265.0	1403.4	1401.1
384.9	60°	431.8	549.2	659.5	783.9	894.2	1004.5	1056.1	1187.5	1192.2
272.2	62.5°	312.1	422.4	528.0	636.0	734.6	842.5	889.5	992.7	1006.8
178.4	65°	218.3	295.7	417.7	499.9	610.2	690.0	751.0	840.2	856.6
105.6	67.5°	140.8	213.6	330.9	403.7	504.6	572.6	636.0	706.4	727.5
68.1	70°	84.5	161.9	246.4	323.9	415.4	476.4	537.4	598.4	610.2
32.9	72.5°	54.0	112.6	178.4	262.8	333.3	399.0	452.9	497.5	462.3
21.1	75°	30.5	77.4	140.8	206.5	269.9	333.3	377.8	401.3	321.5
14.1	77.5°	18.8	56.3	115.0	166.6	208.9	267.5	295.7	309.8	230.0
9.4	80°	11.7	42.2	96.2	136.1	136.1	197.1	230.0	241.7	166.6
7.0	82.5°	9.4	30.5	75.1	103.3	91.5	147.9	180.7	183.1	117.3
4.7	85°	7.0	23.5	46.9	68.1	63.4	103.3	105.6	117.3	77.4
4.7	87.5°	4.7	14.1	28.2	39.9	35.2	49.3	56.3	63.4	42.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21828.1
21187.4
20833.1
20314.4
19342.8
18298.5
17087.5
15876.5
14543.5
13257.4
11961.9
10797.9
9638.5
8507.4
7458.3
6451.5
5449.4
4449.6
3574.3
2928.9
2412.6
1994.8
1659.2
1396.4
1180.5
1002.1
851.9
725.2
600.8
429.5
305.1
215.9
154.9
108.0
70.4
37.5
0.0

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