

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: P638076

Luminaire Tested: **IFLD-S-SA3A-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638076
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8850.4 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

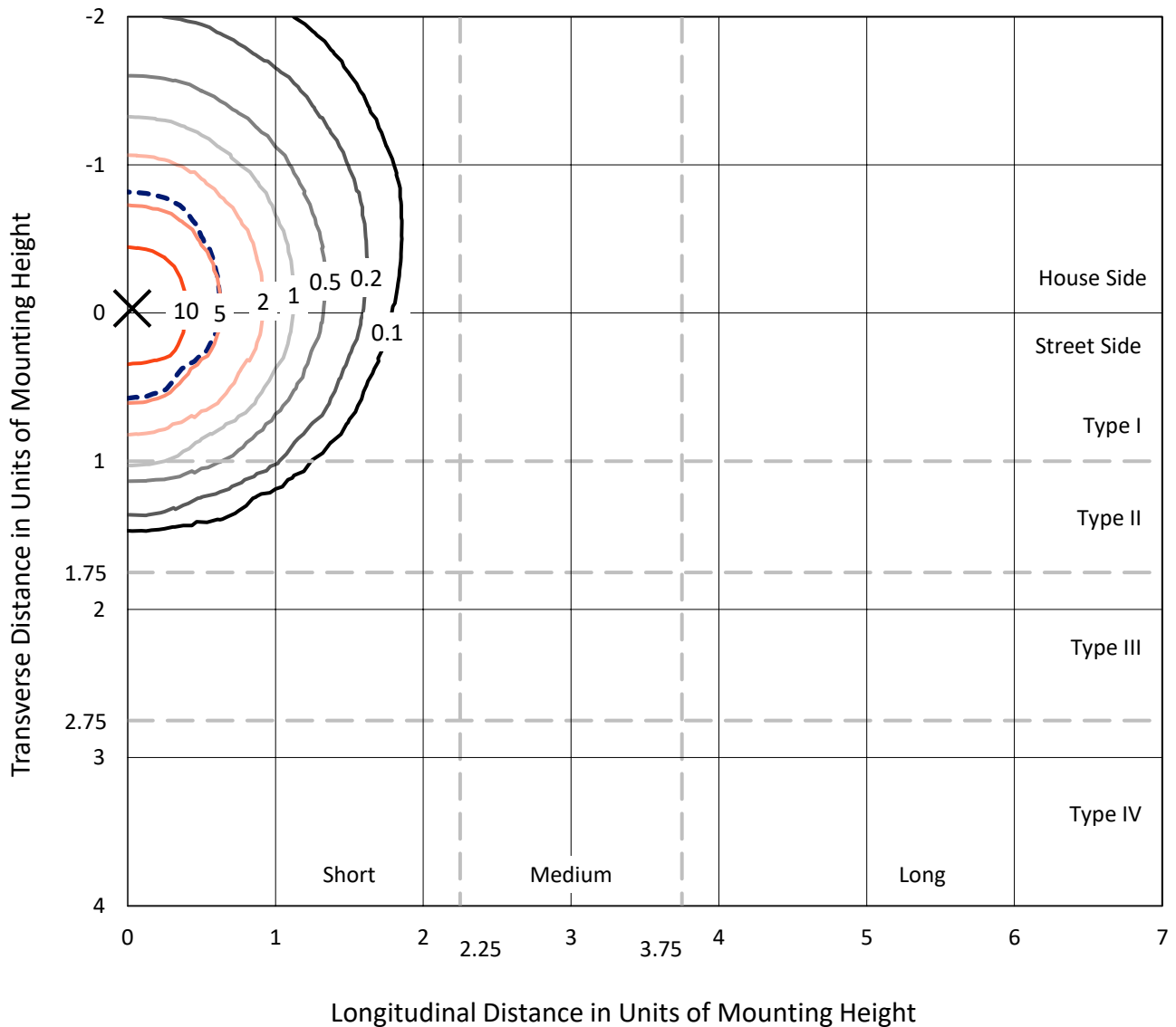
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

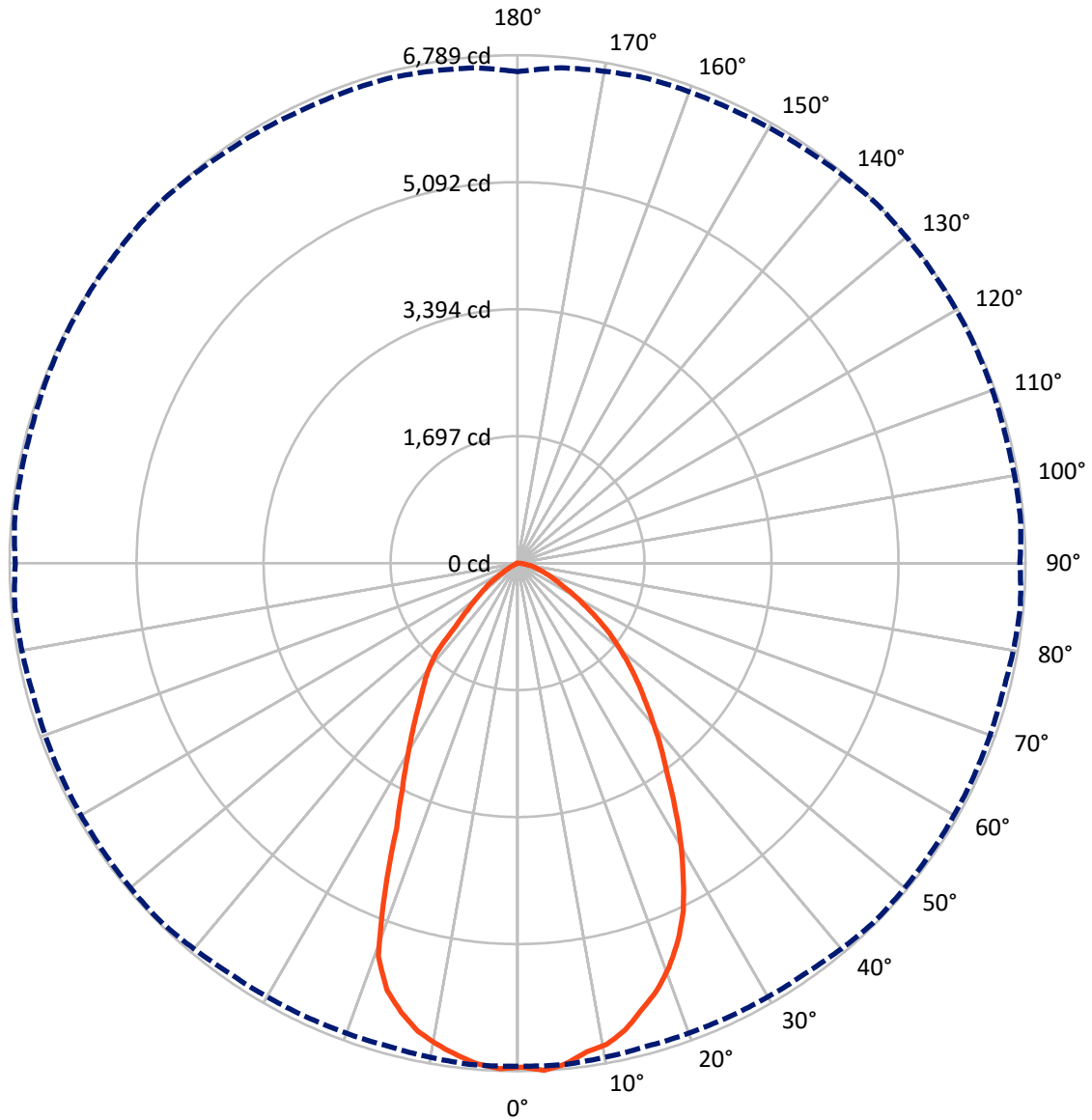
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.8 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	5241.7	0.0	5241.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3608.7	0.0	3608.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	8850.4	0.0	8850.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.6	7.1
10°-20°	1693.8	19.1
20°-30°	2065.7	23.3
30°-40°	1886.0	21.3
40°-50°	1362.9	15.4
50°-60°	744.2	8.4
60°-70°	307.7	3.5
70°-80°	124.6	1.4
80°-90°	33.9	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°	8850.4	100.0
0°-180°	8850.4	100.0



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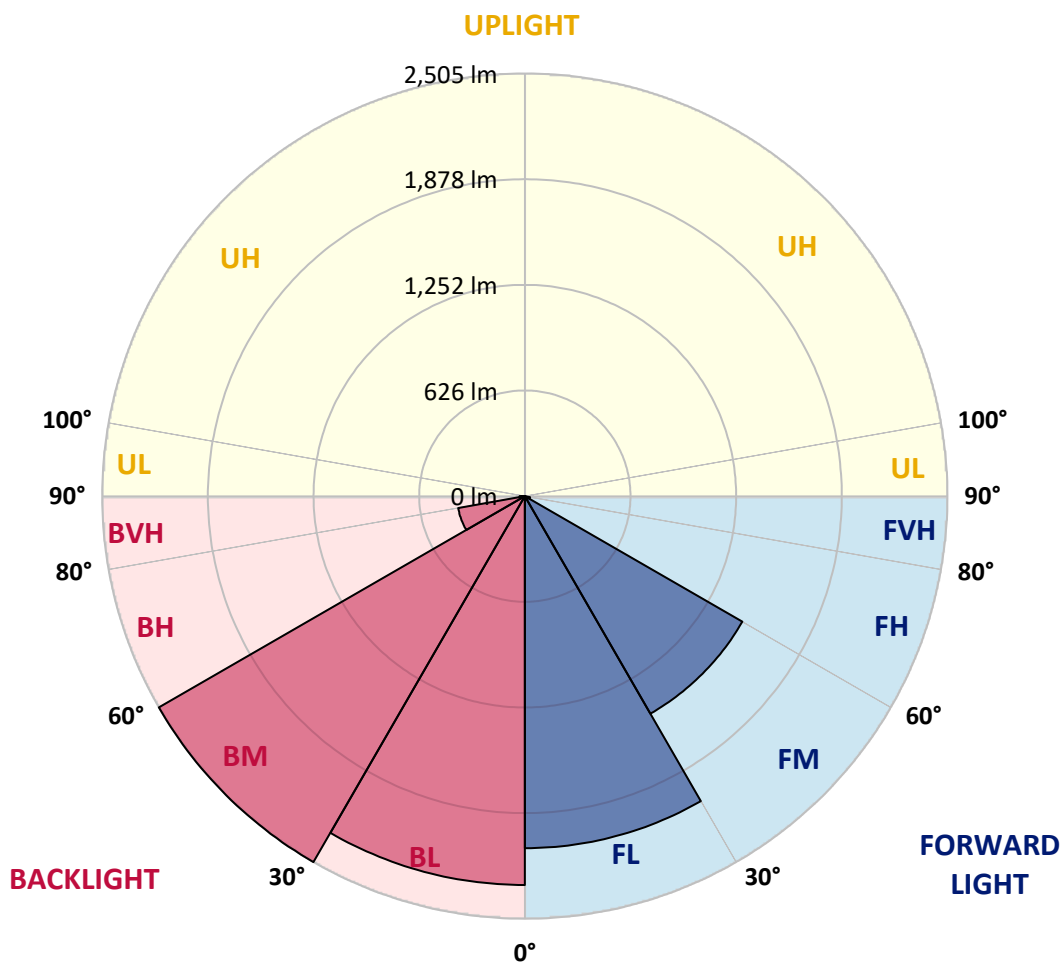
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.4	23.6			
FM (30°-60°)	1488.5	16.8			
FH (60°-80°)	31.2	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2304.8	26.0	B3/2500		
BM (30°-60°)	2504.6	28.3	B3/5000		
BH (60°-80°)	401.1	4.5	B1/500		G1/500
BVH (80°-90°)	31.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1
2.5°	6722.7	6731.4	6684.1	6689.0	6697.8	6761.3	6745.1	6730.2	6709.0	6745.1
5°	6714.0	6718.9	6669.1	6651.6	6659.1	6716.5	6664.1	6664.1	6659.1	6652.9
7.5°	6646.7	6649.2	6610.5	6579.4	6599.3	6625.5	6586.8	6605.5	6578.1	6599.3
10°	6545.7	6529.5	6483.4	6474.7	6497.1	6522.0	6495.9	6513.3	6488.4	6504.6
12.5°	6397.4	6372.5	6335.1	6323.9	6362.5	6396.1	6375.0	6365.0	6332.6	6372.5
15°	5825.3	5806.6	5891.4	6039.7	6173.1	6201.7	6179.3	6189.3	6122.0	6133.2
17.5°	4794.6	4759.7	4850.7	5202.2	5703.2	5967.4	5947.5	5882.7	5783.0	5805.4
20°	4357.2	4347.2	4337.2	4420.7	4770.9	5572.3	5599.7	5435.2	5293.1	5262.0
22.5°	4110.4	4106.6	4096.7	4115.4	4207.6	4722.3	5036.4	4884.4	4789.6	4780.9
25°	3884.8	3878.6	3848.7	3872.3	3872.3	3902.2	4304.8	4397.0	4313.5	4303.6
27.5°	3655.5	3644.3	3639.3	3650.5	3593.2	3391.3	3493.5	3943.4	3899.8	3902.2
30°	3407.5	3403.7	3390.0	3413.7	3236.7	2986.2	2921.4	3532.1	3540.8	3538.3
32.5°	3038.5	3054.7	3117.1	3143.2	2851.6	2644.7	2536.3	3056.0	3234.2	3230.5
35°	2207.2	2207.2	2410.4	2788.0	2498.9	2343.1	2284.5	2591.1	2931.4	2943.8
37.5°	1814.7	1820.9	1860.8	2032.8	2156.1	2101.3	2083.9	2181.1	2542.5	2562.4
40°	1632.7	1632.7	1632.7	1561.6	1557.9	1893.2	1883.2	1852.0	2196.0	2239.6
42.5°	1466.9	1470.7	1473.2	1293.7	1194.0	1636.4	1614.0	1566.6	1885.7	1936.8
45°	1296.2	1302.4	1309.9	1081.8	1038.2	1177.8	1366.0	1313.6	1579.1	1645.2
47.5°	791.4	801.4	970.9	917.3	922.3	908.6	1114.2	1105.5	1294.9	1388.4
50°	534.7	538.4	554.6	582.0	791.4	714.1	788.9	914.8	983.4	1125.4
52.5°	448.7	454.9	415.0	377.6	519.7	558.4	550.9	679.2	706.7	882.4
55°	315.3	335.3	316.6	312.8	295.4	433.7	417.5	522.2	539.7	670.5
57.5°	32.4	37.4	64.8	233.1	193.2	245.5	297.9	382.6	400.1	494.8
60°	2.5	2.5	6.2	32.4	140.8	147.1	205.6	235.6	269.2	345.2
62.5°	0.0	1.2	2.5	5.0	22.4	78.5	103.4	123.4	162.0	223.1
65°	0.0	0.0	1.2	3.7	5.0	29.9	39.9	64.8	88.5	138.3
67.5°	0.0	0.0	1.2	2.5	3.7	7.5	13.7	23.7	47.4	78.5
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	15.0	21.2	42.4
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	7.5	10.0	15.0	21.2
75°	0.0	0.0	1.2	1.2	3.7	7.5	6.2	7.5	10.0	13.7
77.5°	0.0	0.0	1.2	2.5	3.7	7.5	6.2	7.5	7.5	8.7
80°	0.0	0.0	1.2	2.5	5.0	8.7	7.5	7.5	6.2	6.2
82.5°	0.0	0.0	1.2	3.7	5.0	11.2	11.2	10.0	5.0	3.7
85°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	10.0	3.7	2.5
87.5°	0.0	0.0	2.5	3.7	6.2	8.7	12.5	10.0	3.7	1.2
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°
6735.1	0°	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1	6735.1
6714.0	2.5°	6747.6	6740.1	6765.1	6775.0	6788.7	6736.4	6704.0	6705.2	6645.4
6637.9	5°	6677.8	6679.1	6711.5	6709.0	6722.7	6694.0	6681.6	6660.4	6608.0
6542.0	7.5°	6589.3	6578.1	6609.3	6633.0	6598.1	6618.0	6589.3	6599.3	6568.1
6457.2	10°	6520.8	6494.6	6523.3	6539.5	6540.7	6520.8	6493.4	6467.2	6456.0
6325.1	12.5°	6368.7	6335.1	6383.7	6406.1	6402.4	6363.7	6332.6	6338.8	6302.7
6093.3	15°	6159.3	6160.6	6195.5	6216.7	6196.7	6188.0	6190.5	6175.5	6144.4
5773.0	17.5°	5839.0	5857.7	5950.0	6001.1	6012.3	5994.8	5986.1	5968.7	5937.5
5262.0	20°	5305.6	5417.8	5582.3	5740.6	5771.7	5766.8	5735.6	5728.1	5710.7
4756.0	22.5°	4837.0	4920.5	5111.2	5358.0	5485.1	5497.5	5460.2	5448.9	5430.2
4303.6	25°	4352.2	4441.9	4613.9	4881.9	5144.8	5198.4	5192.2	5158.5	5138.6
3902.2	27.5°	3943.4	4033.1	4188.9	4430.7	4712.4	4884.4	4900.6	4847.0	4845.7
3544.6	30°	3574.5	3697.9	3816.3	4013.2	4286.1	4544.1	4571.5	4534.1	4537.9
3216.8	32.5°	3285.3	3387.5	3488.5	3620.6	3847.4	4147.8	4255.0	4220.1	4206.4
2943.8	35°	2989.9	3059.7	3163.2	3284.1	3438.6	3736.5	3922.2	3896.0	3882.3
2574.9	37.5°	2653.4	2773.1	2847.9	2983.7	3104.6	3341.4	3603.1	3599.4	3570.7
2260.8	40°	2308.2	2434.1	2547.5	2684.6	2778.1	2966.3	3256.7	3255.4	3259.1
1935.5	42.5°	1995.4	2111.3	2248.4	2397.9	2487.7	2624.8	2936.3	2953.8	2975.0
1667.6	45°	1712.5	1817.1	1944.3	2126.2	2234.7	2313.2	2589.9	2669.6	2668.4
1428.3	47.5°	1458.2	1556.7	1663.8	1840.8	1979.2	2050.2	2279.5	2392.9	2385.5
1171.5	50°	1223.9	1311.1	1423.3	1551.7	1737.4	1799.7	1970.4	2120.0	2108.8
933.5	52.5°	984.6	1105.5	1200.2	1317.4	1513.0	1574.1	1706.2	1852.0	1843.3
700.4	55°	767.7	884.9	999.6	1100.5	1265.0	1356.0	1450.7	1600.3	1597.8
548.4	57.5°	580.8	709.2	817.6	913.6	1044.4	1156.6	1232.6	1368.5	1385.9
375.1	60°	430.0	528.4	645.6	752.8	856.2	972.1	1023.2	1156.6	1164.1
256.7	62.5°	292.9	401.3	516.0	613.2	690.5	810.1	856.2	965.9	979.6
164.5	65°	203.2	272.9	403.8	473.6	568.3	670.5	716.6	803.9	831.3
94.7	67.5°	134.6	194.4	315.3	378.9	472.4	542.2	600.7	671.8	701.7
59.8	70°	73.5	143.3	225.6	299.1	380.1	447.4	504.8	562.1	588.3
27.4	72.5°	49.9	96.0	157.0	236.8	306.6	372.7	423.8	466.1	467.4
16.2	75°	24.9	64.8	119.6	183.2	239.3	304.1	350.2	375.1	345.2
10.0	77.5°	15.0	47.4	97.2	147.1	194.4	245.5	271.7	285.4	236.8
7.5	80°	8.7	33.7	76.0	117.2	134.6	180.7	205.6	209.4	158.3
5.0	82.5°	6.2	24.9	59.8	86.0	82.3	127.1	154.5	149.6	101.0
3.7	85°	3.7	17.4	37.4	53.6	49.9	83.5	89.7	92.2	58.6
2.5	87.5°	2.5	10.0	19.9	28.7	23.7	36.1	36.1	43.6	28.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6735.1
6568.1
6595.6
6515.8
6406.1
6271.5
6113.2
5923.8
5670.8
5425.3
5117.4
4843.2
4519.2
4207.6
3863.6
3594.4
3259.1
2963.8
2670.9
2388.0
2118.8
1862.0
1604.0
1378.4
1175.3
982.1
825.1
697.9
578.3
456.2
322.8
228.1
148.3
93.5
53.6
24.9
0.0

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