

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: P638137

Luminaire Tested: **IFLD-S-SA3D-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638137
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17681.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

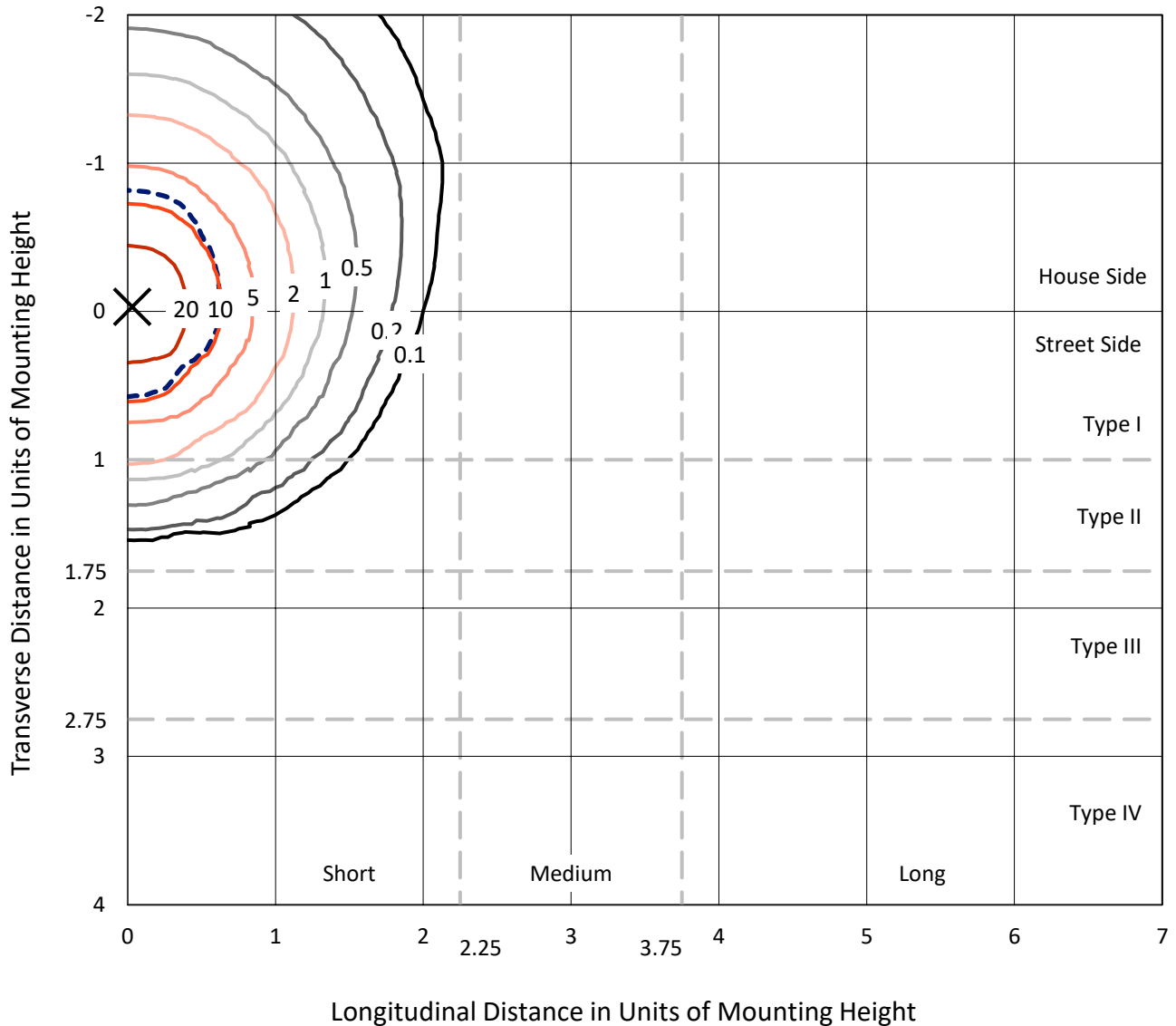
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

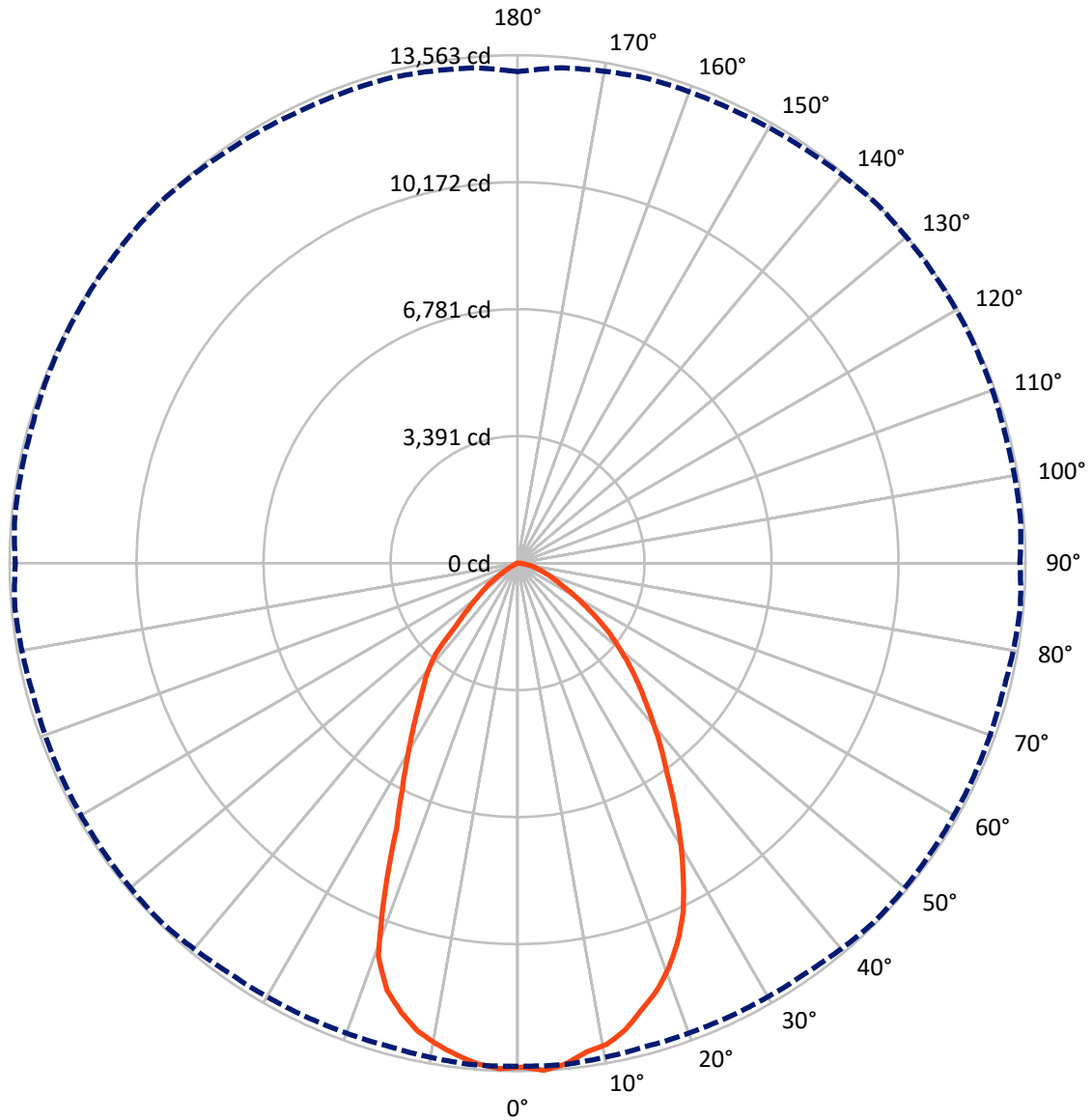
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.6 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	10472.0	0.0	10472.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7209.7	0.0	7209.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	17681.8	0.0	17681.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.9	7.1
10°-20°	3384.0	19.1
20°-30°	4126.9	23.3
30°-40°	3767.8	21.3
40°-50°	2722.9	15.4
50°-60°	1486.7	8.4
60°-70°	614.7	3.5
70°-80°	249.0	1.4
80°-90°	67.7	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°	17681.8	100.0
0°-180°	17681.8	100.0



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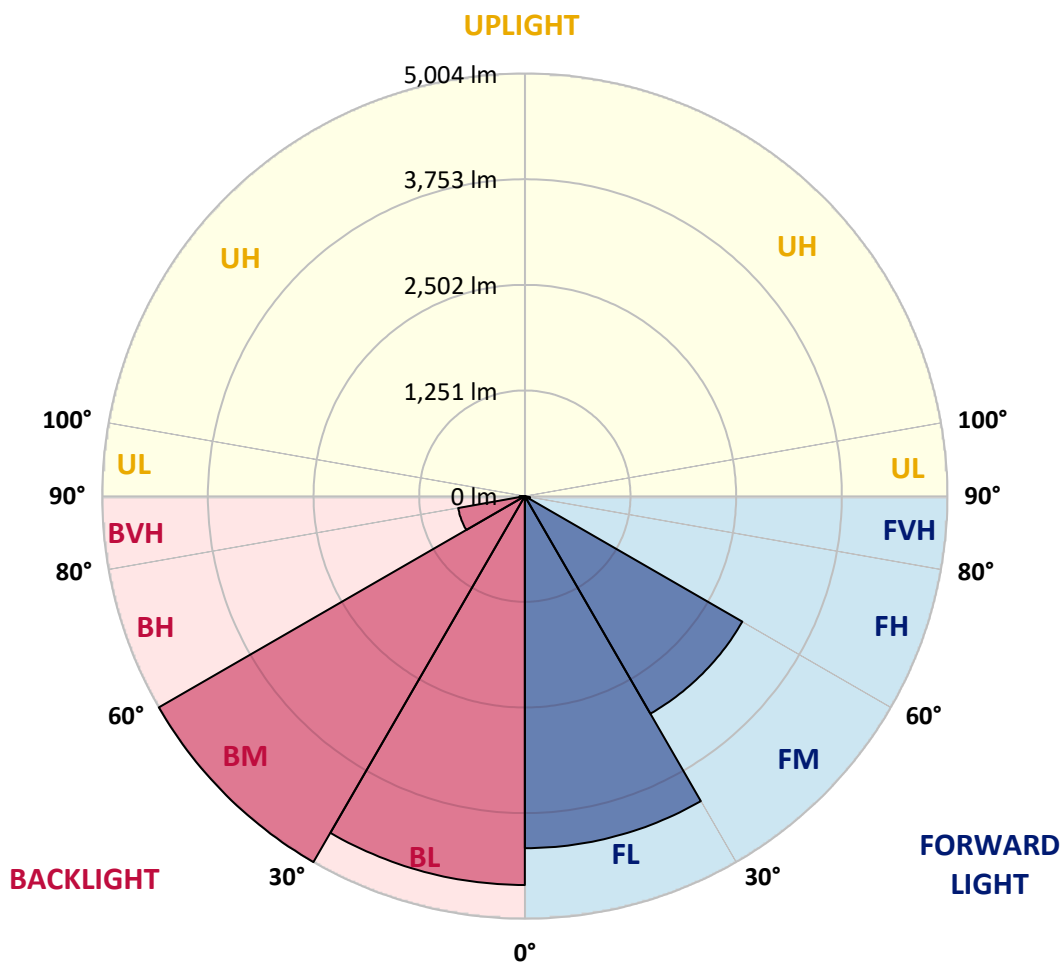
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4168.3	23.6			
FM (30°-60°)	2973.7	16.8			
FH (60°-80°)	62.3	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4604.6	26.0	B4/5000		
BM (30°-60°)	5003.8	28.3	B4/8500		
BH (60°-80°)	801.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8
2.5°	13430.9	13448.3	13353.7	13363.7	13381.1	13508.1	13475.7	13445.8	13403.5	13475.7
5°	13413.5	13423.4	13323.8	13289.0	13303.9	13418.4	13313.9	13313.9	13303.9	13291.4
7.5°	13279.0	13284.0	13206.8	13144.5	13184.4	13236.7	13159.5	13196.8	13142.0	13184.4
10°	13077.3	13044.9	12952.8	12935.4	12980.2	13030.0	12977.7	13012.6	12962.8	12995.1
12.5°	12781.0	12731.2	12656.5	12634.1	12711.3	12778.5	12736.2	12716.3	12651.5	12731.2
15°	11638.1	11600.8	11770.1	12066.4	12332.8	12390.1	12345.3	12365.2	12230.7	12253.1
17.5°	9578.9	9509.2	9691.0	10393.1	11394.1	11922.0	11882.1	11752.6	11553.4	11598.3
20°	8704.9	8685.0	8665.1	8831.9	9531.6	11132.6	11187.4	10858.7	10574.9	10512.6
22.5°	8211.9	8204.4	8184.5	8221.9	8406.1	9434.5	10062.0	9758.2	9568.9	9551.5
25°	7761.2	7748.8	7689.0	7736.3	7736.3	7796.1	8600.3	8784.6	8617.8	8597.9
27.5°	7303.1	7280.7	7270.7	7293.1	7178.6	6775.2	6979.4	7878.3	7791.1	7796.1
30°	6807.6	6800.1	6772.7	6820.0	6466.4	5966.0	5836.5	7056.6	7074.0	7069.0
32.5°	6070.5	6102.9	6227.4	6279.7	5697.0	5283.7	5067.1	6105.4	6461.5	6454.0
35°	4409.7	4409.7	4815.6	5570.1	4992.4	4681.1	4564.1	5176.6	5856.4	5881.3
37.5°	3625.4	3637.8	3717.5	4061.1	4307.6	4198.1	4163.2	4357.4	5079.5	5119.4
40°	3261.9	3261.9	3261.9	3119.9	3112.5	3782.3	3762.3	3700.1	4387.3	4474.5
42.5°	2930.7	2938.2	2943.1	2584.6	2385.4	3269.3	3224.5	3129.9	3767.3	3869.4
45°	2589.6	2602.0	2617.0	2161.3	2074.1	2353.0	2729.0	2624.4	3154.8	3286.8
47.5°	1581.1	1601.0	1939.7	1832.6	1842.6	1815.2	2226.0	2208.6	2587.1	2773.8
50°	1068.2	1075.7	1108.0	1162.8	1581.1	1426.8	1576.1	1827.6	1964.6	2248.4
52.5°	896.4	908.8	829.2	754.5	1038.3	1115.5	1100.6	1357.0	1411.8	1762.9
55°	630.0	669.8	632.5	625.0	590.1	866.5	834.1	1043.3	1078.2	1339.6
57.5°	64.7	74.7	129.5	465.6	385.9	490.5	595.1	764.4	799.3	988.5
60°	5.0	5.0	12.4	64.7	281.4	293.8	410.8	470.6	537.8	689.7
62.5°	0.0	2.5	5.0	10.0	44.8	156.9	206.7	246.5	323.7	445.7
65°	0.0	0.0	2.5	7.5	10.0	59.8	79.7	129.5	176.8	276.4
67.5°	0.0	0.0	2.5	5.0	7.5	14.9	27.4	47.3	94.6	156.9
70°	0.0	0.0	2.5	5.0	7.5	12.4	19.9	29.9	42.3	84.7
72.5°	0.0	0.0	2.5	2.5	5.0	12.4	14.9	19.9	29.9	42.3
75°	0.0	0.0	2.5	2.5	7.5	14.9	12.4	14.9	19.9	27.4
77.5°	0.0	0.0	2.5	5.0	7.5	14.9	12.4	14.9	14.9	17.4
80°	0.0	0.0	2.5	5.0	10.0	17.4	14.9	14.9	12.4	12.4
82.5°	0.0	0.0	2.5	7.5	10.0	22.4	22.4	19.9	10.0	7.5
85°	0.0	0.0	5.0	10.0	14.9	24.9	24.9	19.9	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.4	17.4	24.9	19.9	7.5	2.5
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°
13455.8	0°	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8	13455.8
13413.5	2.5°	13480.7	13465.7	13515.5	13535.5	13562.8	13458.3	13393.5	13396.0	13276.5
13261.6	5°	13341.2	13343.7	13408.5	13403.5	13430.9	13373.6	13348.7	13306.4	13201.8
13069.8	7.5°	13164.5	13142.0	13204.3	13251.6	13181.9	13221.7	13164.5	13184.4	13122.1
12900.5	10°	13027.5	12975.2	13032.5	13064.9	13067.3	13027.5	12972.7	12920.4	12898.0
12636.6	12.5°	12723.7	12656.5	12753.6	12798.4	12791.0	12713.8	12651.5	12664.0	12591.8
12173.4	15°	12305.4	12307.9	12377.6	12420.0	12380.1	12362.7	12367.7	12337.8	12275.5
11533.5	17.5°	11665.5	11702.8	11887.1	11989.2	12011.6	11976.7	11959.3	11924.5	11862.2
10512.6	20°	10599.8	10823.9	11152.6	11468.8	11531.0	11521.1	11458.8	11443.9	11409.0
9501.7	22.5°	9663.6	9830.4	10211.4	10704.4	10958.3	10983.2	10908.5	10886.1	10848.8
8597.9	25°	8695.0	8874.2	9217.9	9753.2	10278.6	10385.7	10373.2	10306.0	10266.1
7796.1	27.5°	7878.3	8057.5	8368.8	8851.8	9414.6	9758.2	9790.5	9683.5	9681.0
7081.5	30°	7141.2	7387.7	7624.3	8017.7	8563.0	9078.4	9133.2	9058.5	9066.0
6426.6	32.5°	6563.6	6767.7	6969.4	7233.4	7686.5	8286.6	8500.7	8431.0	8403.6
5881.3	35°	5973.4	6112.9	6319.5	6561.1	6869.8	7464.9	7835.9	7783.6	7756.2
5144.3	37.5°	5301.1	5540.2	5689.6	5961.0	6202.5	6675.6	7198.5	7191.0	7133.8
4516.8	40°	4611.4	4862.9	5089.5	5363.4	5550.1	5926.1	6506.3	6503.8	6511.3
3866.9	42.5°	3986.4	4218.0	4491.9	4790.7	4970.0	5243.9	5866.4	5901.2	5943.6
3331.6	45°	3421.2	3630.4	3884.3	4247.9	4464.5	4621.4	5174.2	5333.5	5331.0
2853.5	47.5°	2913.3	3110.0	3324.1	3677.7	3954.1	4096.0	4554.1	4780.7	4765.8
2340.6	50°	2445.1	2619.4	2843.5	3100.0	3471.0	3595.5	3936.6	4235.4	4213.0
1865.0	52.5°	1967.1	2208.6	2397.8	2631.9	3022.8	3144.8	3408.8	3700.1	3682.7
1399.4	55°	1533.8	1767.9	1997.0	2198.6	2527.3	2709.1	2898.3	3197.1	3192.1
1095.6	57.5°	1160.3	1416.8	1633.4	1825.1	2086.6	2310.7	2462.6	2734.0	2768.8
749.5	60°	859.0	1055.7	1289.8	1503.9	1710.6	1942.2	2044.3	2310.7	2325.6
512.9	62.5°	585.1	801.8	1030.8	1225.1	1379.4	1618.5	1710.6	1929.7	1957.1
328.7	65°	405.9	545.3	806.7	946.2	1135.4	1339.6	1431.7	1606.0	1660.8
189.2	67.5°	268.9	388.4	630.0	756.9	943.7	1083.1	1200.2	1342.1	1401.9
119.5	70°	146.9	286.3	450.7	597.6	759.4	893.9	1008.4	1123.0	1175.3
54.8	72.5°	99.6	191.7	313.7	473.1	612.5	744.5	846.6	931.2	933.7
32.4	75°	49.8	129.5	239.0	366.0	478.1	607.6	699.7	749.5	689.7
19.9	77.5°	29.9	94.6	194.2	293.8	388.4	490.5	542.8	570.2	473.1
14.9	80°	17.4	67.2	151.9	234.1	268.9	361.0	410.8	418.3	316.2
10.0	82.5°	12.4	49.8	119.5	171.8	164.3	254.0	308.8	298.8	201.7
7.5	85°	7.5	34.9	74.7	107.1	99.6	166.8	179.3	184.3	117.0
5.0	87.5°	5.0	19.9	39.8	57.3	47.3	72.2	72.2	87.1	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13455.8
13122.1
13176.9
13017.5
12798.4
12529.5
12213.3
11834.8
11329.3
10838.8
10223.8
9676.0
9028.6
8406.1
7718.9
7181.1
6511.3
5921.1
5336.0
4770.8
4232.9
3720.0
3204.6
2753.9
2348.0
1962.1
1648.4
1394.4
1155.3
911.3
644.9
455.7
296.3
186.7
107.1
49.8
0.0

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