

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: P638203

Luminaire Tested: **IFLD-M-SA4B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638203
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17970 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

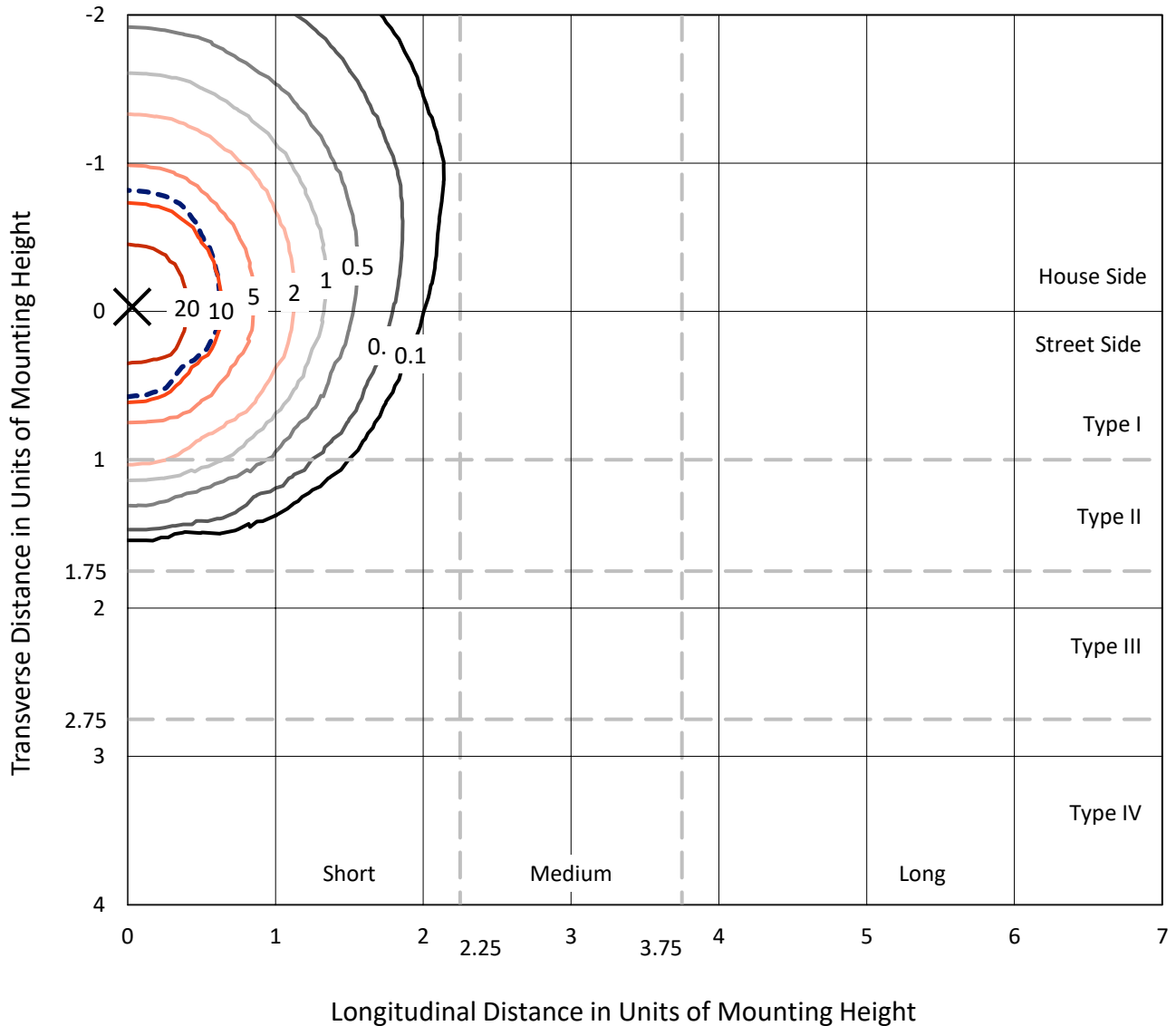




REPORT NUMBER: P638203
 CATALOG NUMBER: IFLD-M-SA4B-750-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

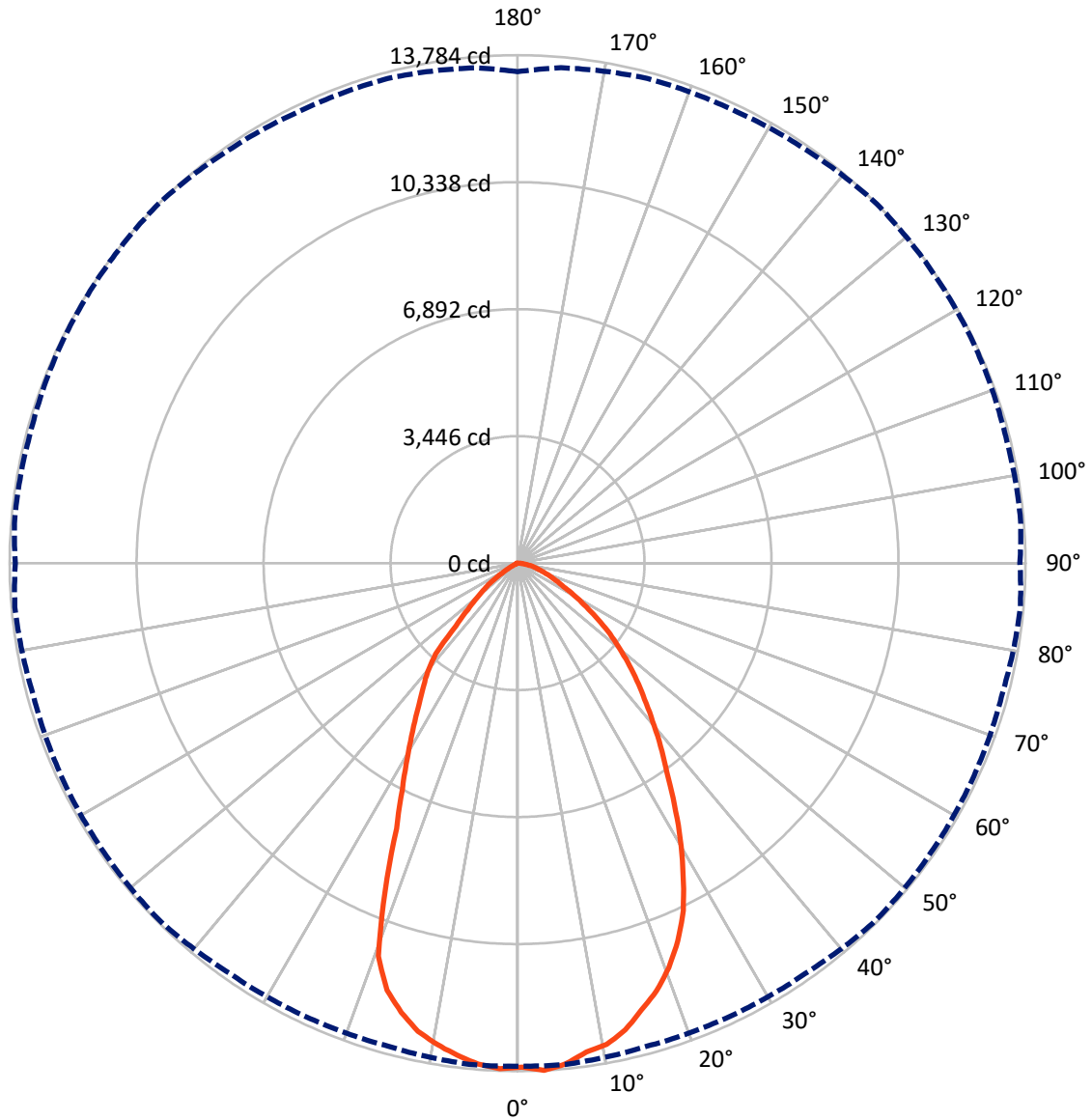
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638203
CATALOG NUMBER: IFLD-M-SA4B-750-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638203

CATALOG NUMBER: IFLD-M-SA4B-750-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10642.8	0.0	10642.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7327.3	0.0	7327.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	17970.0	0.0	17970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.5	7.1
10°-20°	3439.1	19.1
20°-30°	4194.2	23.3
30°-40°	3829.3	21.3
40°-50°	2767.3	15.4
50°-60°	1511.0	8.4
60°-70°	624.7	3.5
70°-80°	253.0	1.4
80°-90°	68.8	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°	17970.0	100.0
0°-180°	17970.0	100.0



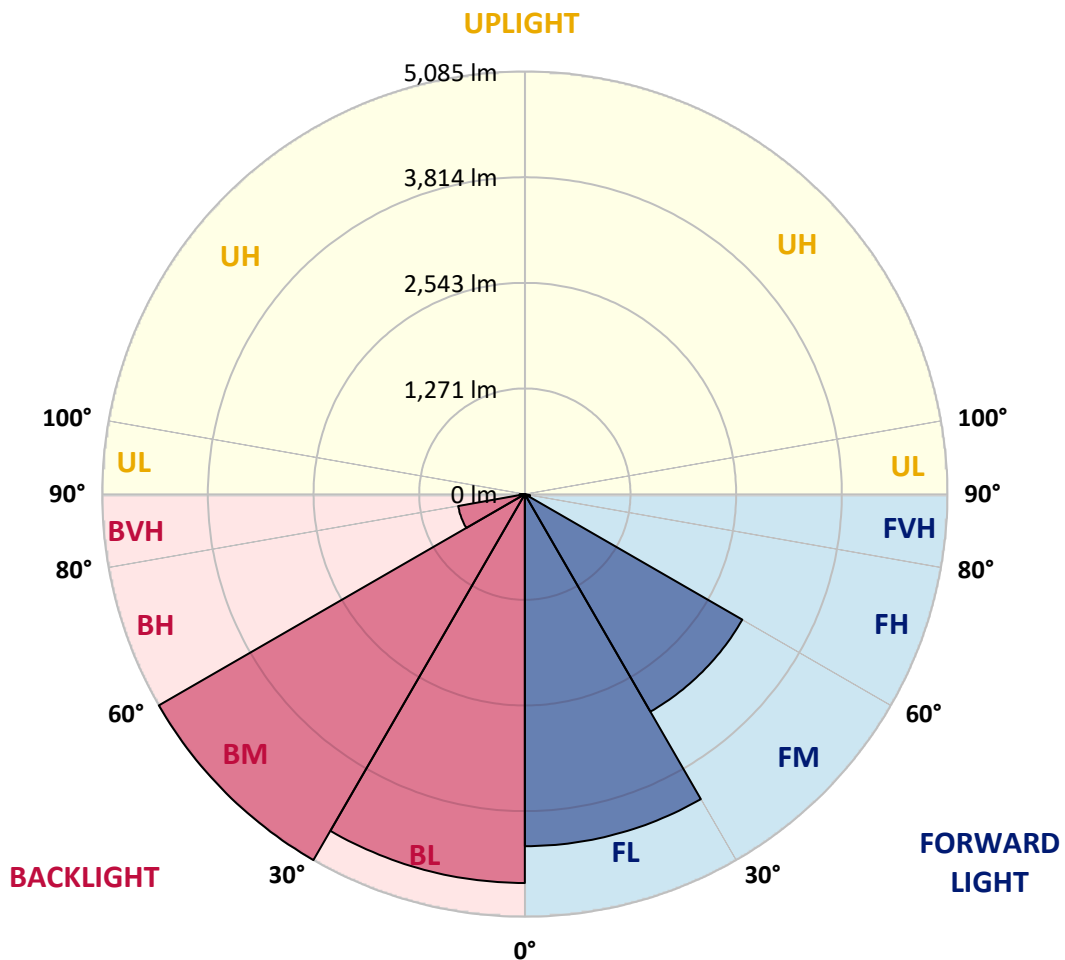
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4236.2	23.6			
FM (30°-60°)	3022.2	16.8			
FH (60°-80°)	63.3	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	4679.7	26.0	B4/5000		
BM (30°-60°)	5085.4	28.3	B4/8500		
BH (60°-80°)	814.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	63.3	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





REPORT NUMBER: P638203
 CATALOG NUMBER: IFLD-M-SA4B-750-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1
2.5°	13649.8	13667.6	13571.4	13581.5	13599.2	13728.3	13695.4	13665.0	13622.0	13695.4
5°	13632.1	13642.2	13541.0	13505.6	13520.8	13637.2	13530.9	13530.9	13520.8	13508.1
7.5°	13495.5	13500.5	13422.1	13358.8	13399.3	13452.5	13374.0	13412.0	13356.3	13399.3
10°	13290.5	13257.6	13164.0	13146.3	13191.8	13242.4	13189.3	13224.7	13174.1	13207.0
12.5°	12989.4	12938.8	12862.8	12840.1	12918.5	12986.8	12943.8	12923.6	12857.8	12938.8
15°	11827.8	11789.9	11962.0	12263.1	12533.9	12592.1	12546.5	12566.8	12430.1	12452.9
17.5°	9735.1	9664.2	9848.9	10562.6	11579.8	12116.3	12075.8	11944.2	11741.8	11787.3
20°	8846.8	8826.6	8806.3	8975.9	9687.0	11314.1	11369.8	11035.8	10747.3	10684.0
22.5°	8345.8	8338.2	8318.0	8355.9	8543.2	9588.3	10226.0	9917.3	9724.9	9707.2
25°	7887.8	7875.1	7814.4	7862.5	7862.5	7923.2	8740.6	8927.8	8758.3	8738.0
27.5°	7422.1	7399.4	7389.2	7412.0	7295.6	6885.7	7093.2	8006.7	7918.1	7923.2
30°	6918.6	6911.0	6883.1	6931.2	6571.9	6063.2	5931.6	7171.6	7189.3	7184.3
32.5°	6169.5	6202.4	6328.9	6382.1	5789.9	5369.8	5149.7	6204.9	6566.8	6559.2
35°	4481.6	4481.6	4894.1	5660.9	5073.8	4757.5	4638.5	5261.0	5951.9	5977.2
37.5°	3684.5	3697.1	3778.1	4127.3	4377.9	4266.5	4231.1	4428.5	5162.3	5202.8
40°	3315.0	3315.0	3315.0	3170.8	3163.2	3843.9	3823.7	3760.4	4458.8	4547.4
42.5°	2978.5	2986.1	2991.1	2626.7	2424.3	3322.6	3277.1	3180.9	3828.7	3932.5
45°	2631.8	2644.4	2659.6	2196.5	2108.0	2391.4	2773.5	2667.2	3206.2	3340.3
47.5°	1606.9	1627.2	1971.3	1862.5	1872.6	1844.8	2262.3	2244.6	2629.3	2819.0
50°	1085.6	1093.2	1126.1	1181.8	1606.9	1450.0	1601.8	1857.4	1996.6	2285.1
52.5°	911.0	923.7	842.7	766.8	1055.2	1133.7	1118.5	1379.2	1434.8	1791.6
55°	640.2	680.7	642.8	635.2	599.7	880.6	847.7	1060.3	1095.7	1361.4
57.5°	65.8	75.9	131.6	473.2	392.2	498.5	604.8	776.9	812.3	1004.6
60°	5.1	5.1	12.7	65.8	286.0	298.6	417.5	478.3	546.6	701.0
62.5°	0.0	2.5	5.1	10.1	45.6	159.4	210.0	250.5	329.0	453.0
65°	0.0	0.0	2.5	7.6	10.1	60.7	81.0	131.6	179.7	280.9
67.5°	0.0	0.0	2.5	5.1	7.6	15.2	27.8	48.1	96.2	159.4
70°	0.0	0.0	2.5	5.1	7.6	12.7	20.2	30.4	43.0	86.0
72.5°	0.0	0.0	2.5	2.5	5.1	12.7	15.2	20.2	30.4	43.0
75°	0.0	0.0	2.5	2.5	7.6	15.2	12.7	15.2	20.2	27.8
77.5°	0.0	0.0	2.5	5.1	7.6	15.2	12.7	15.2	15.2	17.7
80°	0.0	0.0	2.5	5.1	10.1	17.7	15.2	15.2	12.7	12.7
82.5°	0.0	0.0	2.5	7.6	10.1	22.8	22.8	20.2	10.1	7.6
85°	0.0	0.0	5.1	10.1	15.2	25.3	25.3	20.2	7.6	5.1
87.5°	0.0	0.0	5.1	7.6	12.7	17.7	25.3	20.2	7.6	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638203

CATALOG NUMBER: IFLD-M-SA4B-750-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13675.1	0°	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1	13675.1
13632.1	2.5°	13700.5	13685.3	13735.9	13756.1	13784.0	13677.7	13611.9	13614.4	13492.9
13477.8	5°	13558.7	13561.3	13627.1	13622.0	13649.8	13591.6	13566.3	13523.3	13417.0
13282.9	7.5°	13379.1	13356.3	13419.6	13467.6	13396.8	13437.3	13379.1	13399.3	13336.1
13110.8	10°	13239.9	13186.7	13245.0	13277.8	13280.4	13239.9	13184.2	13131.1	13108.3
12842.6	12.5°	12931.2	12862.8	12961.5	13007.1	12999.5	12921.0	12857.8	12870.4	12797.0
12371.9	15°	12506.0	12508.6	12579.4	12622.4	12581.9	12564.2	12569.3	12538.9	12475.7
11721.6	17.5°	11855.7	11893.6	12080.9	12184.6	12207.4	12172.0	12154.3	12118.9	12055.6
10684.0	20°	10772.6	11000.3	11334.4	11655.8	11719.0	11708.9	11645.6	11630.5	11595.0
9656.6	22.5°	9821.1	9990.7	10377.8	10878.9	11137.0	11162.3	11086.4	11063.6	11025.7
8738.0	25°	8836.7	9018.9	9368.1	9912.2	10446.2	10555.0	10542.3	10474.0	10433.5
7923.2	27.5°	8006.7	8188.9	8505.2	8996.1	9568.0	9917.3	9950.2	9841.3	9838.8
7196.9	30°	7257.6	7508.2	7748.6	8148.4	8702.6	9226.4	9282.1	9206.2	9213.8
6531.4	32.5°	6670.6	6878.1	7083.0	7351.3	7811.8	8421.7	8639.3	8568.5	8540.6
5977.2	35°	6070.8	6212.5	6422.6	6668.0	6981.8	7586.6	7963.7	7910.5	7882.7
5228.1	37.5°	5387.6	5630.5	5782.3	6058.2	6303.6	6784.4	7315.8	7308.3	7250.1
4590.4	40°	4686.6	4942.2	5172.5	5450.8	5640.6	6022.7	6612.4	6609.8	6617.4
3930.0	42.5°	4051.4	4286.8	4565.1	4868.8	5051.0	5329.4	5962.0	5997.4	6040.4
3385.9	45°	3477.0	3689.6	3947.7	4317.1	4537.3	4696.7	5258.5	5420.5	5417.9
2900.0	47.5°	2960.8	3160.7	3378.3	3737.6	4018.5	4162.8	4628.4	4858.7	4843.5
2378.7	50°	2485.0	2662.1	2889.9	3150.5	3527.6	3654.1	4000.8	4304.5	4281.7
1895.4	52.5°	1999.1	2244.6	2436.9	2674.8	3072.1	3196.1	3464.3	3760.4	3742.7
1422.2	55°	1558.8	1796.7	2029.5	2234.5	2568.5	2753.2	2945.6	3249.2	3244.2
1113.4	57.5°	1179.2	1439.9	1660.0	1854.9	2120.6	2348.4	2502.7	2778.6	2814.0
761.7	60°	873.0	1073.0	1310.8	1528.5	1738.5	1973.8	2077.6	2348.4	2363.5
521.3	62.5°	594.7	814.8	1047.7	1245.0	1401.9	1644.9	1738.5	1961.2	1989.0
334.0	65°	412.5	554.2	819.9	961.6	1153.9	1361.4	1455.1	1632.2	1687.9
192.3	67.5°	273.3	394.8	640.2	769.3	959.1	1100.8	1219.7	1364.0	1424.7
121.5	70°	149.3	291.0	458.0	607.3	771.8	908.5	1024.9	1141.3	1194.4
55.7	72.5°	101.2	194.9	318.9	480.8	622.5	756.6	860.4	946.4	949.0
32.9	75°	50.6	131.6	242.9	372.0	485.9	617.5	711.1	761.7	701.0
20.2	77.5°	30.4	96.2	197.4	298.6	394.8	498.5	551.7	579.5	480.8
15.2	80°	17.7	68.3	154.4	237.9	273.3	366.9	417.5	425.1	321.4
10.1	82.5°	12.7	50.6	121.5	174.6	167.0	258.1	313.8	303.7	205.0
7.6	85°	7.6	35.4	75.9	108.8	101.2	169.5	182.2	187.3	118.9
5.1	87.5°	5.1	20.2	40.5	58.2	48.1	73.4	73.4	88.6	58.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13675.1
13336.1
13391.7
13229.8
13007.1
12733.8
12412.4
12027.8
11514.0
11015.5
10390.5
9833.8
9175.8
8543.2
7844.7
7298.1
6617.4
6017.7
5423.0
4848.6
4302.0
3780.7
3256.8
2798.8
2386.3
1994.1
1675.2
1417.1
1174.2
926.2
655.4
463.1
301.1
189.8
108.8
50.6
0.0

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