

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: P636793

Luminaire Tested: **IFLD-L-SA8C-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25876 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

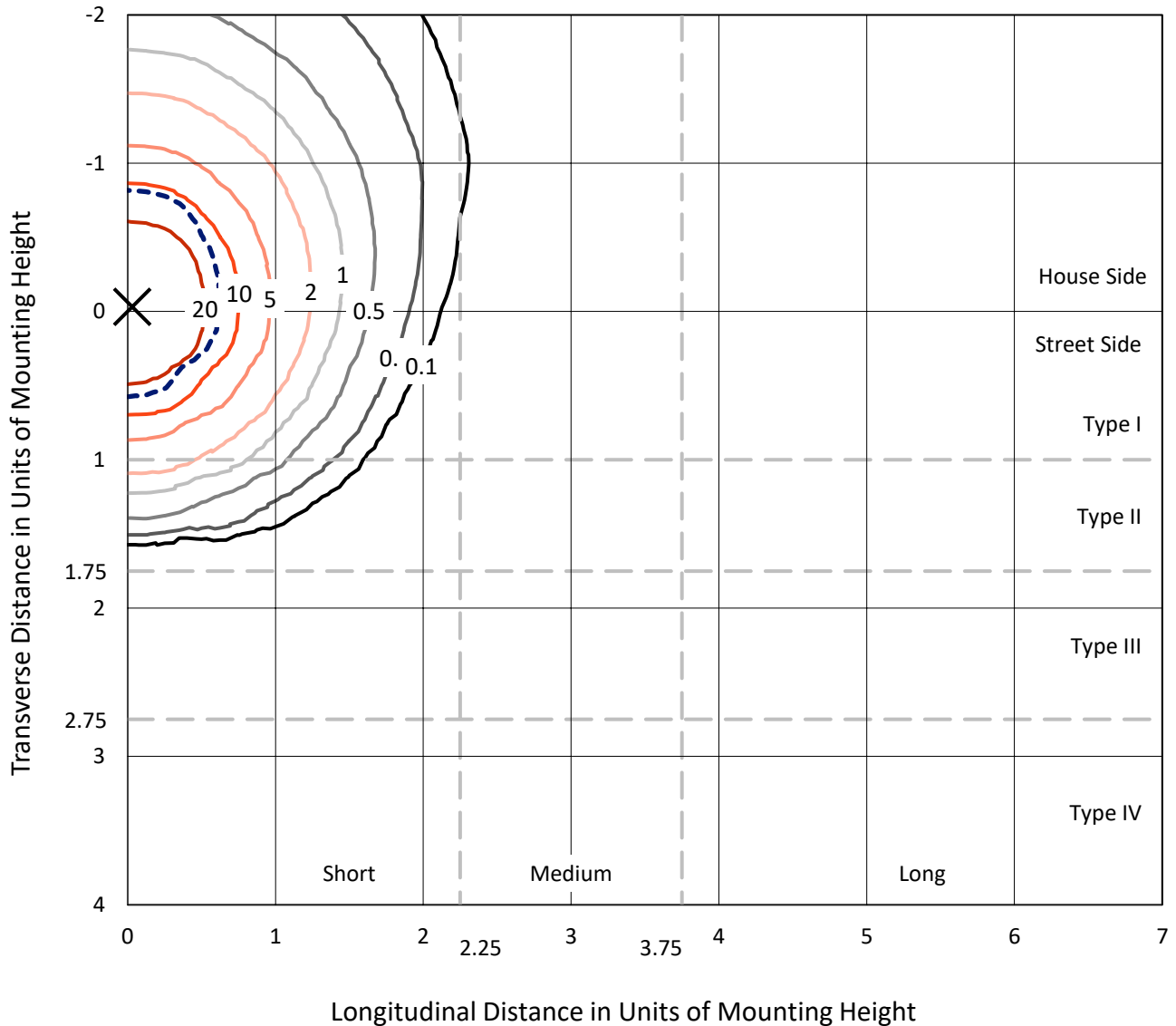
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

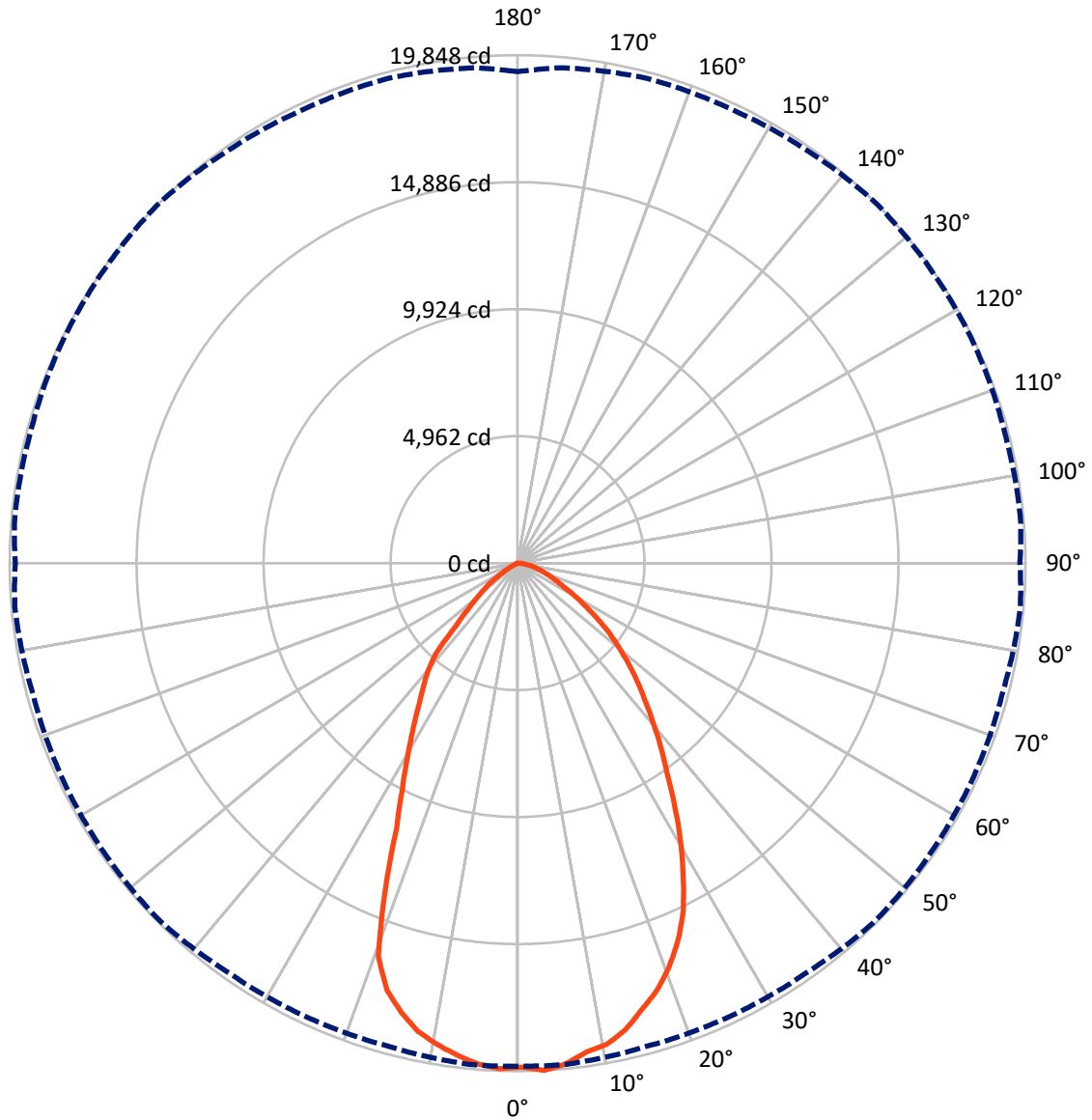
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.2 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	15325.1	0.0	15325.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10550.9	0.0	10550.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	25876.0	0.0	25876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1846.8	7.1
10°-20°	4952.2	19.1
20°-30°	6039.5	23.3
30°-40°	5514.0	21.3
40°-50°	3984.8	15.4
50°-60°	2175.8	8.4
60°-70°	899.6	3.5
70°-80°	364.3	1.4
80°-90°	99.1	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°	25876.0	100.0
0°-180°	25876.0	100.0



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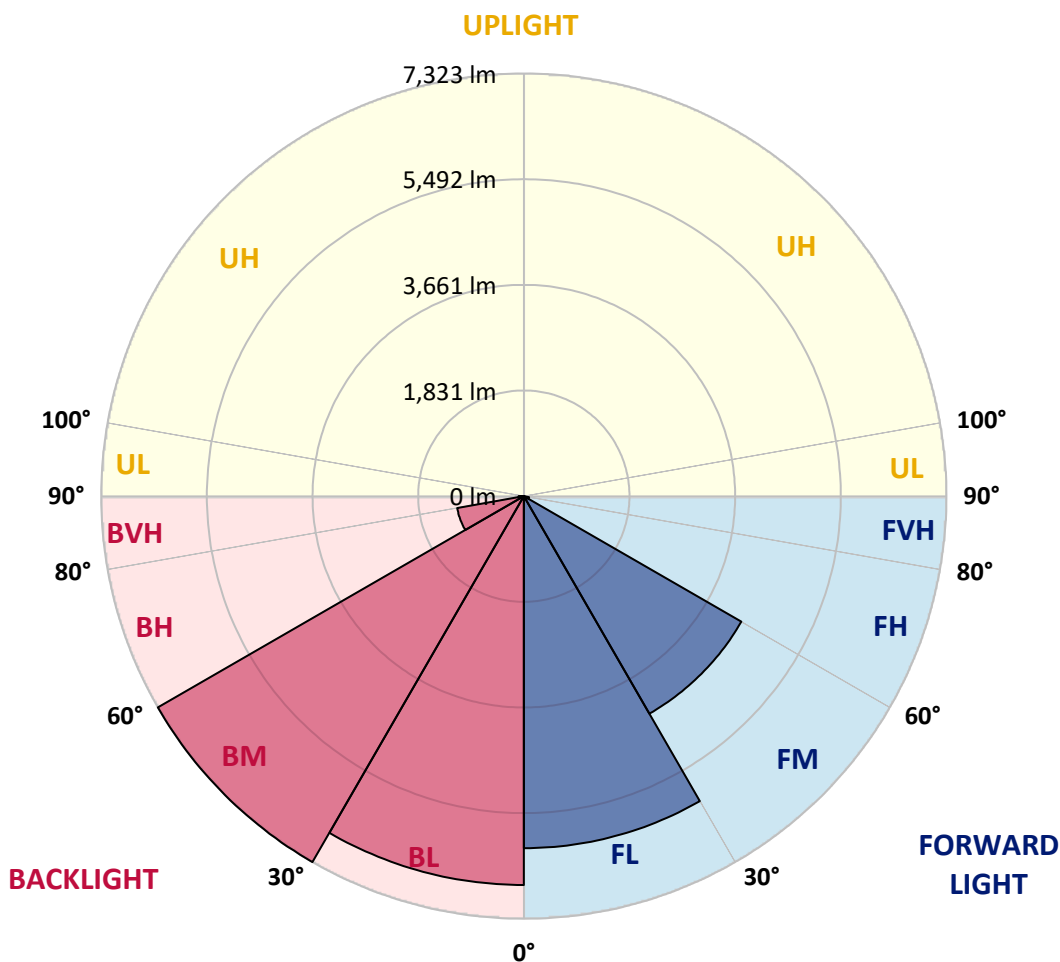
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6099.9	23.6			
FM (30°-60°)	4351.9	16.8			
FH (60°-80°)	91.2	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	6738.5	26.0	B5		
BM (30°-60°)	7322.7	28.3	B4/8500		
BH (60°-80°)	1172.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	91.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6
2.5°	19655.1	19680.7	19542.2	19556.8	19582.3	19768.1	19720.7	19677.0	19615.1	19720.7
5°	19629.6	19644.2	19498.5	19447.4	19469.3	19636.9	19483.9	19483.9	19469.3	19451.1
7.5°	19432.9	19440.2	19327.2	19236.1	19294.4	19370.9	19258.0	19312.6	19232.5	19294.4
10°	19137.7	19090.3	18955.5	18930.0	18995.6	19068.5	18992.0	19043.0	18970.1	19017.5
12.5°	18704.1	18631.2	18521.9	18489.1	18602.1	18700.4	18638.5	18609.3	18514.6	18631.2
15°	17031.5	16976.9	17224.7	17658.3	18048.2	18132.0	18066.4	18095.6	17898.8	17931.6
17.5°	14018.0	13916.0	14182.0	15209.6	16674.4	17446.9	17388.6	17199.2	16907.7	16973.2
20°	12739.0	12709.9	12680.7	12924.9	13948.8	16291.8	16372.0	15891.0	15475.6	15384.5
22.5°	12017.6	12006.6	11977.5	12032.1	12301.8	13806.7	14725.0	14280.4	14003.5	13978.0
25°	11358.0	11339.8	11252.3	11321.6	11321.6	11409.0	12586.0	12855.6	12611.5	12582.4
27.5°	10687.5	10654.7	10640.2	10673.0	10505.3	9915.0	10213.8	11529.3	11401.7	11409.0
30°	9962.4	9951.5	9911.4	9980.6	9463.2	8730.8	8541.3	10326.8	10352.3	10345.0
32.5°	8883.8	8931.2	9113.4	9189.9	8337.2	7732.3	7415.3	8934.8	9455.9	9445.0
35°	6453.3	6453.3	7047.3	8151.4	7306.0	6850.5	6679.3	7575.6	8570.4	8606.9
37.5°	5305.5	5323.7	5440.3	5943.2	6303.9	6143.6	6092.6	6376.8	7433.5	7491.8
40°	4773.5	4773.5	4773.5	4565.8	4554.9	5535.1	5505.9	5414.8	6420.5	6548.1
42.5°	4288.9	4299.8	4307.1	3782.4	3490.8	4784.4	4718.8	4580.4	5513.2	5662.6
45°	3789.6	3807.9	3829.7	3162.9	3035.4	3443.5	3993.7	3840.7	4616.8	4809.9
47.5°	2313.9	2343.0	2838.6	2681.9	2696.5	2656.4	3257.6	3232.1	3786.0	4059.3
50°	1563.2	1574.2	1621.5	1701.7	2313.9	2087.9	2306.6	2674.6	2875.0	3290.4
52.5°	1311.8	1330.0	1213.4	1104.1	1519.5	1632.5	1610.6	1985.9	2066.1	2579.9
55°	921.9	980.2	925.5	914.6	863.6	1268.1	1220.7	1526.8	1577.8	1960.4
57.5°	94.7	109.3	189.5	681.4	564.8	717.8	870.9	1118.7	1169.7	1446.6
60°	7.3	7.3	18.2	94.7	411.8	430.0	601.2	688.7	787.1	1009.4
62.5°	0.0	3.6	7.3	14.6	65.6	229.6	302.4	360.7	473.7	652.3
65°	0.0	0.0	3.6	10.9	14.6	87.5	116.6	189.5	258.7	404.5
67.5°	0.0	0.0	3.6	7.3	10.9	21.9	40.1	69.2	138.5	229.6
70°	0.0	0.0	3.6	7.3	10.9	18.2	29.2	43.7	61.9	123.9
72.5°	0.0	0.0	3.6	3.6	7.3	18.2	21.9	29.2	43.7	61.9
75°	0.0	0.0	3.6	3.6	10.9	21.9	18.2	21.9	29.2	40.1
77.5°	0.0	0.0	3.6	7.3	10.9	21.9	18.2	21.9	21.9	25.5
80°	0.0	0.0	3.6	7.3	14.6	25.5	21.9	21.9	18.2	18.2
82.5°	0.0	0.0	3.6	10.9	14.6	32.8	32.8	29.2	14.6	10.9
85°	0.0	0.0	7.3	14.6	21.9	36.4	36.4	29.2	10.9	7.3
87.5°	0.0	0.0	7.3	10.9	18.2	25.5	36.4	29.2	10.9	3.6
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°
19691.6	0°	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6	19691.6
19629.6	2.5°	19728.0	19706.2	19779.0	19808.2	19848.3	19695.2	19600.5	19604.1	19429.2
19407.4	5°	19524.0	19527.6	19622.3	19615.1	19655.1	19571.3	19534.9	19472.9	19319.9
19126.8	7.5°	19265.2	19232.5	19323.6	19392.8	19290.8	19349.1	19265.2	19294.4	19203.3
18879.0	10°	19064.8	18988.3	19072.1	19119.5	19123.1	19064.8	18984.7	18908.1	18875.4
18492.7	12.5°	18620.3	18521.9	18664.0	18729.6	18718.7	18605.7	18514.6	18532.8	18427.2
17815.0	15°	18008.1	18011.7	18113.8	18175.7	18117.4	18091.9	18099.2	18055.5	17964.4
16878.5	17.5°	17071.6	17126.3	17395.9	17545.3	17578.1	17527.1	17501.6	17450.6	17359.5
15384.5	20°	15512.0	15840.0	16321.0	16783.8	16874.9	16860.3	16769.2	16747.3	16696.3
13905.1	22.5°	14141.9	14386.1	14943.6	15665.1	16036.8	16073.2	15963.9	15931.1	15876.4
12582.4	25°	12724.5	12986.8	13489.7	14273.1	15042.0	15198.7	15180.4	15082.1	15023.8
11409.0	27.5°	11529.3	11791.6	12247.1	12954.0	13777.5	14280.4	14327.8	14171.1	14167.4
10363.2	30°	10450.7	10811.4	11157.6	11733.3	12531.3	13285.6	13365.8	13256.5	13267.4
9404.9	32.5°	9605.3	9904.1	10199.2	10585.5	11248.7	12126.9	12440.2	12338.2	12298.1
8606.9	35°	8741.7	8945.8	9248.2	9601.7	10053.5	10924.4	11467.3	11390.8	11350.7
7528.3	37.5°	7757.8	8107.7	8326.3	8723.5	9076.9	9769.3	10534.5	10523.6	10439.7
6610.0	40°	6748.5	7116.5	7448.1	7848.9	8122.2	8672.5	9521.5	9517.8	9528.8
5659.0	42.5°	5833.9	6172.8	6573.6	7010.8	7273.2	7674.0	8585.0	8636.0	8698.0
4875.5	45°	5006.7	5312.8	5684.5	6216.5	6533.5	6763.1	7572.0	7805.2	7801.6
4175.9	47.5°	4263.4	4551.2	4864.6	5382.0	5786.5	5994.2	6664.7	6996.3	6974.4
3425.3	50°	3578.3	3833.4	4161.3	4536.6	5079.6	5261.8	5761.0	6198.3	6165.5
2729.3	52.5°	2878.7	3232.1	3509.1	3851.6	4423.7	4602.2	4988.5	5414.8	5389.3
2047.9	55°	2244.6	2587.2	2922.4	3217.6	3698.5	3964.6	4241.5	4678.8	4671.5
1603.3	57.5°	1698.1	2073.4	2390.4	2671.0	3053.6	3381.5	3603.8	4001.0	4052.0
1096.8	60°	1257.1	1545.0	1887.5	2200.9	2503.4	2842.2	2991.6	3381.5	3403.4
750.6	62.5°	856.3	1173.3	1508.6	1792.8	2018.7	2368.5	2503.4	2824.0	2864.1
481.0	65°	594.0	798.0	1180.6	1384.7	1661.6	1960.4	2095.2	2350.3	2430.5
276.9	67.5°	393.5	568.4	921.9	1107.7	1381.0	1585.1	1756.4	1964.1	2051.5
174.9	70°	215.0	419.0	659.5	874.5	1111.4	1308.2	1475.8	1643.4	1719.9
80.2	72.5°	145.8	280.6	459.1	692.3	896.4	1089.5	1238.9	1362.8	1366.5
47.4	75°	72.9	189.5	349.8	535.7	699.6	889.1	1023.9	1096.8	1009.4
29.2	77.5°	43.7	138.5	284.2	430.0	568.4	717.8	794.4	834.5	692.3
21.9	80°	25.5	98.4	222.3	342.5	393.5	528.4	601.2	612.2	462.8
14.6	82.5°	18.2	72.9	174.9	251.4	240.5	371.7	451.8	437.3	295.2
10.9	85°	10.9	51.0	109.3	156.7	145.8	244.1	262.4	269.6	171.3
7.3	87.5°	7.3	29.2	58.3	83.8	69.2	105.7	105.7	127.5	83.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19691.6
19203.3
19283.5
19050.3
18729.6
18336.1
17873.3
17319.4
16579.7
15861.9
14961.8
14160.2
13212.7
12301.8
11296.1
10509.0
9528.8
8665.2
7808.9
6981.7
6194.6
5444.0
4689.7
4030.1
3436.2
2871.4
2412.3
2040.6
1690.8
1333.7
943.8
666.8
433.6
273.3
156.7
72.9
0.0

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