

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: P636748

Luminaire Tested: **IFLD-S-SA6B-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16432.1 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

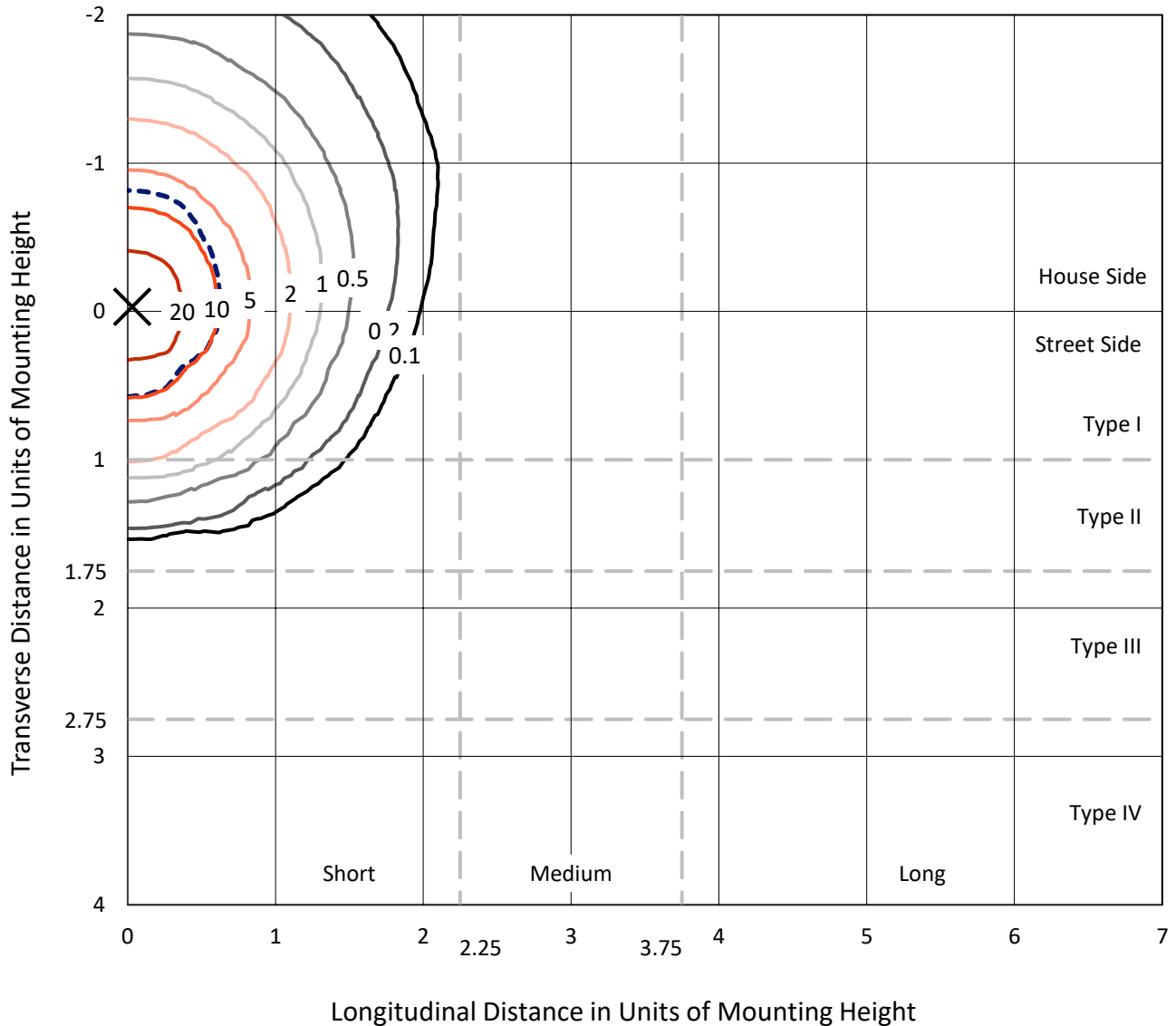
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

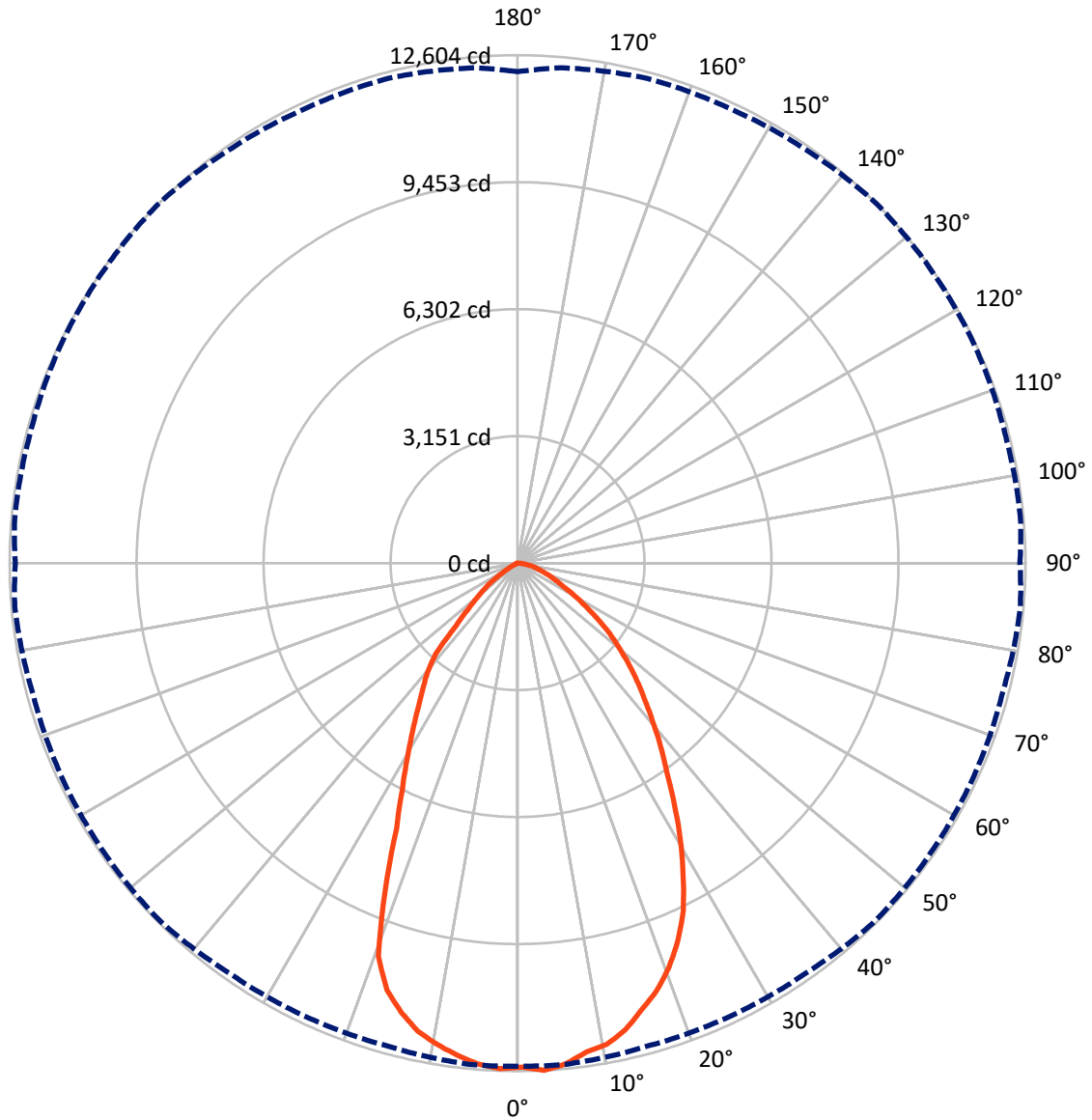
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.3 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	9731.9	0.0	9731.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6700.2	0.0	6700.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	16432.1	0.0	16432.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1172.7	7.1
10°-20°	3144.8	19.1
20°-30°	3835.3	23.3
30°-40°	3501.5	21.3
40°-50°	2530.5	15.4
50°-60°	1381.7	8.4
60°-70°	571.3	3.5
70°-80°	231.4	1.4
80°-90°	62.9	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°	16432.1	100.0
0°-180°	16432.1	100.0



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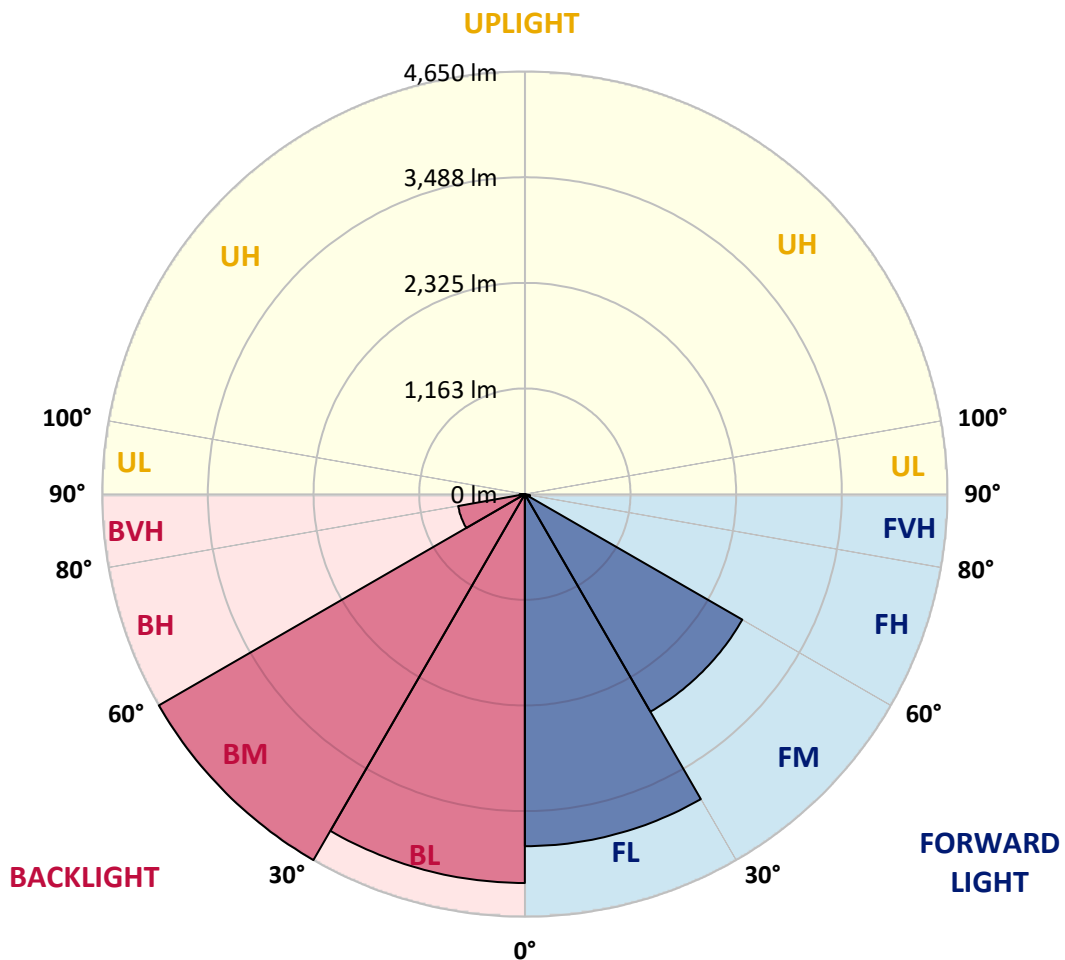
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3873.6	23.6			
FM (30°-60°)	2763.6	16.8			
FH (60°-80°)	57.9	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	4279.2	26.0	B4/5000		
BM (30°-60°)	4650.1	28.3	B3/5000		
BH (60°-80°)	744.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	57.9	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°	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8
2.5°	12481.6	12497.8	12409.9	12419.1	12435.3	12553.4	12523.3	12495.5	12456.2	12523.3
5°	12465.4	12474.7	12382.1	12349.7	12363.6	12470.1	12372.9	12372.9	12363.6	12352.0
7.5°	12340.5	12345.1	12273.4	12215.5	12252.5	12301.1	12229.4	12264.1	12213.2	12252.5
10°	12153.0	12123.0	12037.3	12021.1	12062.8	12109.1	12060.5	12092.9	12046.6	12076.7
12.5°	11877.7	11831.4	11762.0	11741.1	11812.9	11875.4	11836.0	11817.5	11757.3	11831.4
15°	10815.6	10780.8	10938.2	11213.6	11461.2	11514.4	11472.7	11491.2	11366.3	11387.1
17.5°	8901.9	8837.1	9006.0	9658.6	10588.8	11079.3	11042.3	10922.0	10736.9	10778.5
20°	8089.7	8071.2	8052.7	8207.7	8857.9	10345.8	10396.7	10091.3	9827.5	9769.6
22.5°	7631.5	7624.6	7606.1	7640.8	7812.0	8767.7	9350.8	9068.5	8892.6	8876.4
25°	7212.7	7201.1	7145.6	7189.5	7189.5	7245.1	7992.5	8163.7	8008.7	7990.2
27.5°	6786.9	6766.1	6756.8	6777.7	6671.2	6296.3	6486.1	7321.4	7240.5	7245.1
30°	6326.4	6319.5	6294.0	6338.0	6009.4	5544.3	5424.0	6557.8	6574.0	6569.4
32.5°	5641.5	5671.6	5787.3	5835.9	5294.4	4910.3	4709.0	5673.9	6004.8	5997.8
35°	4098.1	4098.1	4475.2	5176.4	4639.5	4350.3	4241.5	4810.8	5442.5	5465.6
37.5°	3369.2	3380.7	3454.8	3774.1	4003.2	3901.4	3869.0	4049.5	4720.5	4757.5
40°	3031.3	3031.3	3031.3	2899.4	2892.5	3514.9	3496.4	3438.6	4077.2	4158.2
42.5°	2723.6	2730.5	2735.1	2401.9	2216.8	3038.3	2996.6	2908.7	3501.1	3595.9
45°	2406.5	2418.1	2432.0	2008.5	1927.5	2186.7	2536.1	2438.9	2931.8	3054.5
47.5°	1469.4	1487.9	1802.6	1703.1	1712.3	1686.9	2068.7	2052.5	2404.2	2577.8
50°	992.7	999.6	1029.7	1080.6	1469.4	1325.9	1464.8	1698.5	1825.7	2089.5
52.5°	833.0	844.6	770.6	701.1	964.9	1036.7	1022.8	1261.1	1312.0	1638.3
55°	585.4	622.5	587.8	580.8	548.4	805.3	775.2	969.6	1002.0	1244.9
57.5°	60.2	69.4	120.3	432.7	358.7	455.9	553.0	710.4	742.8	918.7
60°	4.6	4.6	11.6	60.2	261.5	273.0	381.8	437.3	499.8	641.0
62.5°	0.0	2.3	4.6	9.3	41.7	145.8	192.1	229.1	300.8	414.2
65°	0.0	0.0	2.3	6.9	9.3	55.5	74.0	120.3	164.3	256.9
67.5°	0.0	0.0	2.3	4.6	6.9	13.9	25.5	44.0	87.9	145.8
70°	0.0	0.0	2.3	4.6	6.9	11.6	18.5	27.8	39.3	78.7
72.5°	0.0	0.0	2.3	2.3	4.6	11.6	13.9	18.5	27.8	39.3
75°	0.0	0.0	2.3	2.3	6.9	13.9	11.6	13.9	18.5	25.5
77.5°	0.0	0.0	2.3	4.6	6.9	13.9	11.6	13.9	13.9	16.2
80°	0.0	0.0	2.3	4.6	9.3	16.2	13.9	13.9	11.6	11.6
82.5°	0.0	0.0	2.3	6.9	9.3	20.8	20.8	18.5	9.3	6.9
85°	0.0	0.0	4.6	9.3	13.9	23.1	23.1	18.5	6.9	4.6
87.5°	0.0	0.0	4.6	6.9	11.6	16.2	23.1	18.5	6.9	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°
12504.8	0°	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8	12504.8
12465.4	2.5°	12527.9	12514.0	12560.3	12578.8	12604.3	12507.1	12446.9	12449.2	12338.2
12324.3	5°	12398.3	12400.6	12460.8	12456.2	12481.6	12428.4	12405.3	12365.9	12268.7
12146.1	7.5°	12234.0	12213.2	12271.0	12315.0	12250.2	12287.2	12234.0	12252.5	12194.7
11988.7	10°	12106.8	12058.2	12111.4	12141.5	12143.8	12106.8	12055.8	12007.3	11986.4
11743.5	12.5°	11824.4	11762.0	11852.2	11893.9	11886.9	11815.2	11757.3	11768.9	11701.8
11313.1	15°	11435.7	11438.0	11502.8	11542.1	11505.1	11488.9	11493.6	11465.8	11407.9
10718.4	17.5°	10841.0	10875.7	11047.0	11141.8	11162.7	11130.3	11114.1	11081.7	11023.8
9769.6	20°	9850.6	10058.9	10364.3	10658.2	10716.1	10706.8	10648.9	10635.1	10602.7
8830.2	22.5°	8980.6	9135.6	9489.6	9947.8	10183.8	10207.0	10137.6	10116.7	10082.0
7990.2	25°	8080.4	8247.0	8566.4	9063.9	9552.1	9651.6	9640.1	9577.6	9540.5
7245.1	27.5°	7321.4	7488.0	7777.3	8226.2	8749.2	9068.5	9098.6	8999.1	8996.8
6581.0	30°	6636.5	6865.6	7085.4	7451.0	7957.8	8436.8	8487.7	8418.3	8425.2
5972.4	32.5°	6099.7	6289.4	6476.8	6722.1	7143.3	7700.9	7899.9	7835.1	7809.7
5465.6	35°	5551.2	5680.8	5872.9	6097.3	6384.3	6937.3	7282.1	7233.5	7208.1
4780.7	37.5°	4926.5	5148.6	5287.4	5539.7	5764.1	6203.8	6689.7	6682.8	6629.6
4197.6	40°	4285.5	4519.2	4729.8	4984.3	5157.9	5507.3	6046.4	6044.1	6051.1
3593.6	42.5°	3704.7	3919.9	4174.4	4452.1	4618.7	4873.2	5451.7	5484.1	5523.5
3096.1	45°	3179.4	3373.8	3609.8	3947.7	4149.0	4294.8	4808.5	4956.6	4954.2
2651.8	47.5°	2707.4	2890.2	3089.2	3417.8	3674.6	3806.5	4232.3	4442.8	4429.0
2175.1	50°	2272.3	2434.3	2642.6	2880.9	3225.7	3341.4	3658.4	3936.1	3915.3
1733.2	52.5°	1828.0	2052.5	2228.4	2445.9	2809.2	2922.6	3167.8	3438.6	3422.4
1300.5	55°	1425.4	1642.9	1855.8	2043.2	2348.7	2517.6	2693.5	2971.2	2966.5
1018.2	57.5°	1078.3	1316.7	1518.0	1696.1	1939.1	2147.4	2288.5	2540.8	2573.1
696.5	60°	798.3	981.1	1198.6	1397.6	1589.7	1804.9	1899.8	2147.4	2161.3
476.7	62.5°	543.8	745.1	958.0	1138.5	1281.9	1504.1	1589.7	1793.3	1818.8
305.4	65°	377.2	506.8	749.7	879.3	1055.2	1244.9	1330.5	1492.5	1543.4
175.9	67.5°	249.9	361.0	585.4	703.5	877.0	1006.6	1115.3	1247.2	1302.8
111.1	70°	136.5	266.1	418.8	555.4	705.8	830.7	937.2	1043.6	1092.2
50.9	72.5°	92.6	178.2	291.6	439.7	569.2	691.9	786.8	865.4	867.7
30.1	75°	46.3	120.3	222.1	340.2	444.3	564.6	650.2	696.5	641.0
18.5	77.5°	27.8	87.9	180.5	273.0	361.0	455.9	504.4	529.9	439.7
13.9	80°	16.2	62.5	141.2	217.5	249.9	335.5	381.8	388.7	293.9
9.3	82.5°	11.6	46.3	111.1	159.7	152.7	236.0	286.9	277.7	187.4
6.9	85°	6.9	32.4	69.4	99.5	92.6	155.0	166.6	171.2	108.8
4.6	87.5°	4.6	18.5	37.0	53.2	44.0	67.1	67.1	81.0	53.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12504.8
12194.7
12245.6
12097.5
11893.9
11644.0
11350.1
10998.4
10528.6
10072.8
9501.2
8992.1
8390.5
7812.0
7173.3
6673.5
6051.1
5502.6
4958.9
4433.6
3933.8
3457.1
2978.1
2559.3
2182.1
1823.4
1531.9
1295.8
1073.7
846.9
599.3
423.5
275.4
173.5
99.5
46.3
0.0

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