

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: P638139

Luminaire Tested: **IFLD-S-SA6A-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20475.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

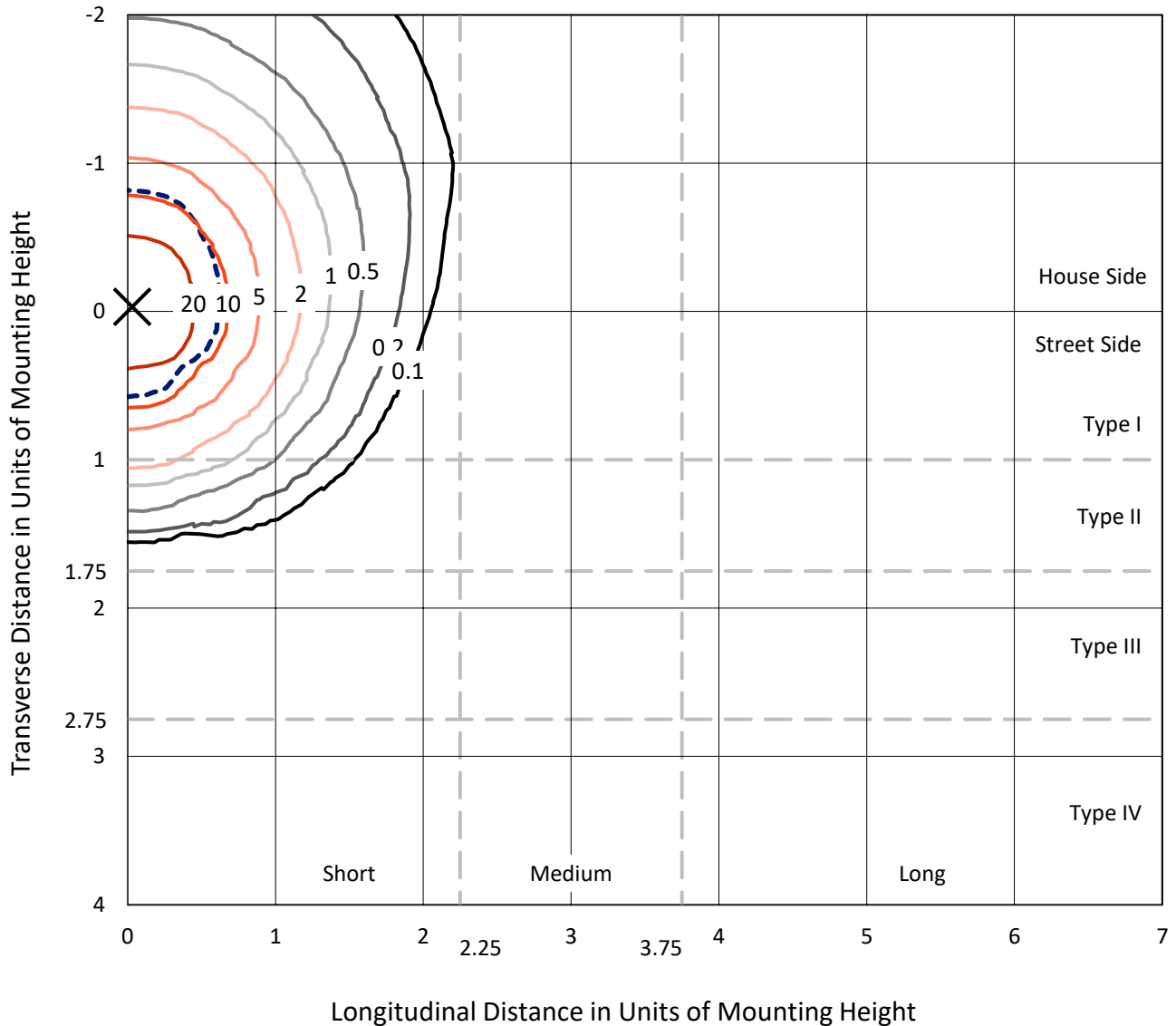
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

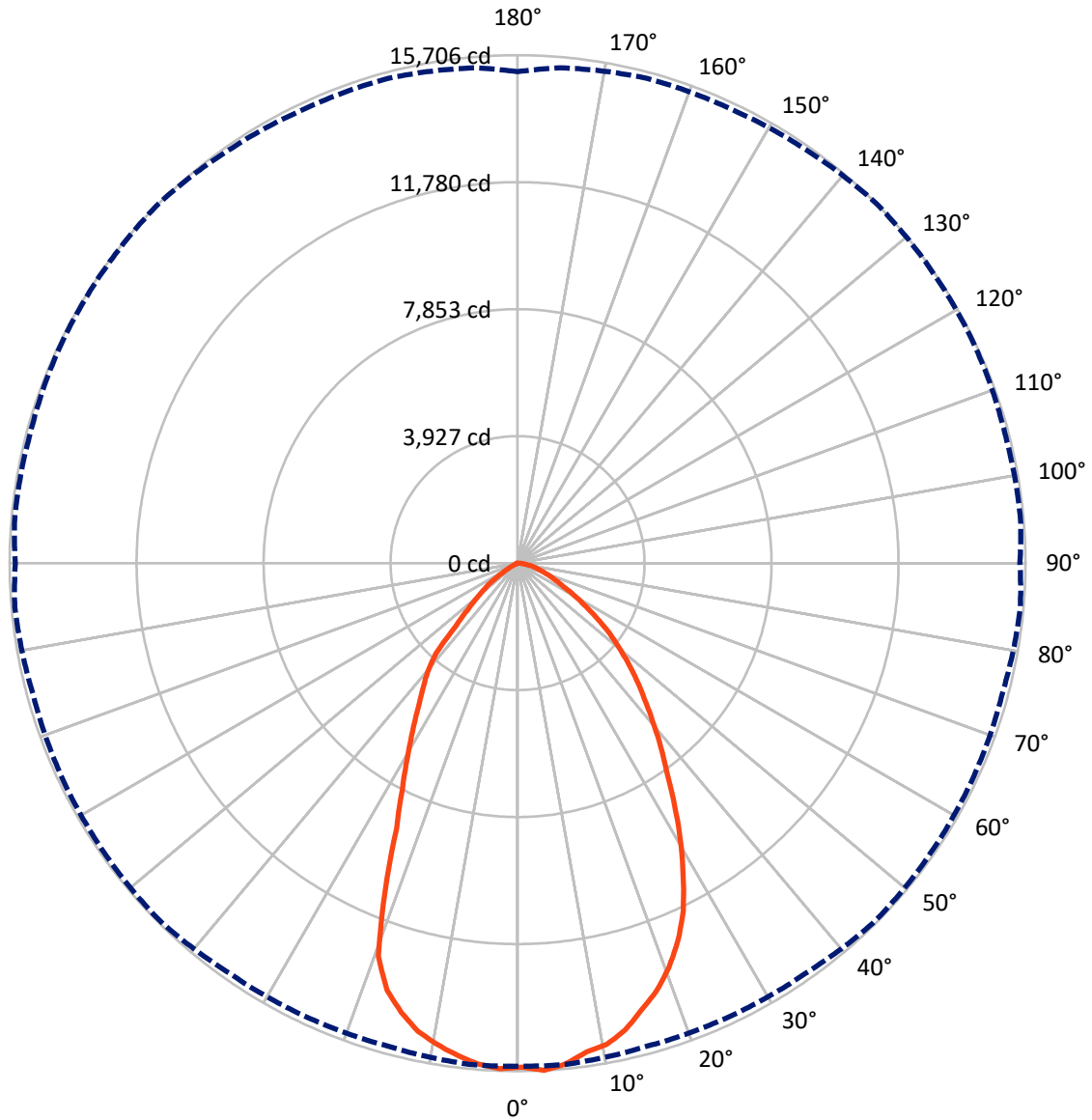
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39 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	12126.8	0.0	12126.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8349.0	0.0	8349.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	20475.8	0.0	20475.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1461.3	7.1
10°-20°	3918.7	19.1
20°-30°	4779.1	23.3
30°-40°	4363.2	21.3
40°-50°	3153.2	15.4
50°-60°	1721.7	8.4
60°-70°	711.9	3.5
70°-80°	288.3	1.4
80°-90°	78.4	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°	20475.8	100.0
0°-180°	20475.8	100.0



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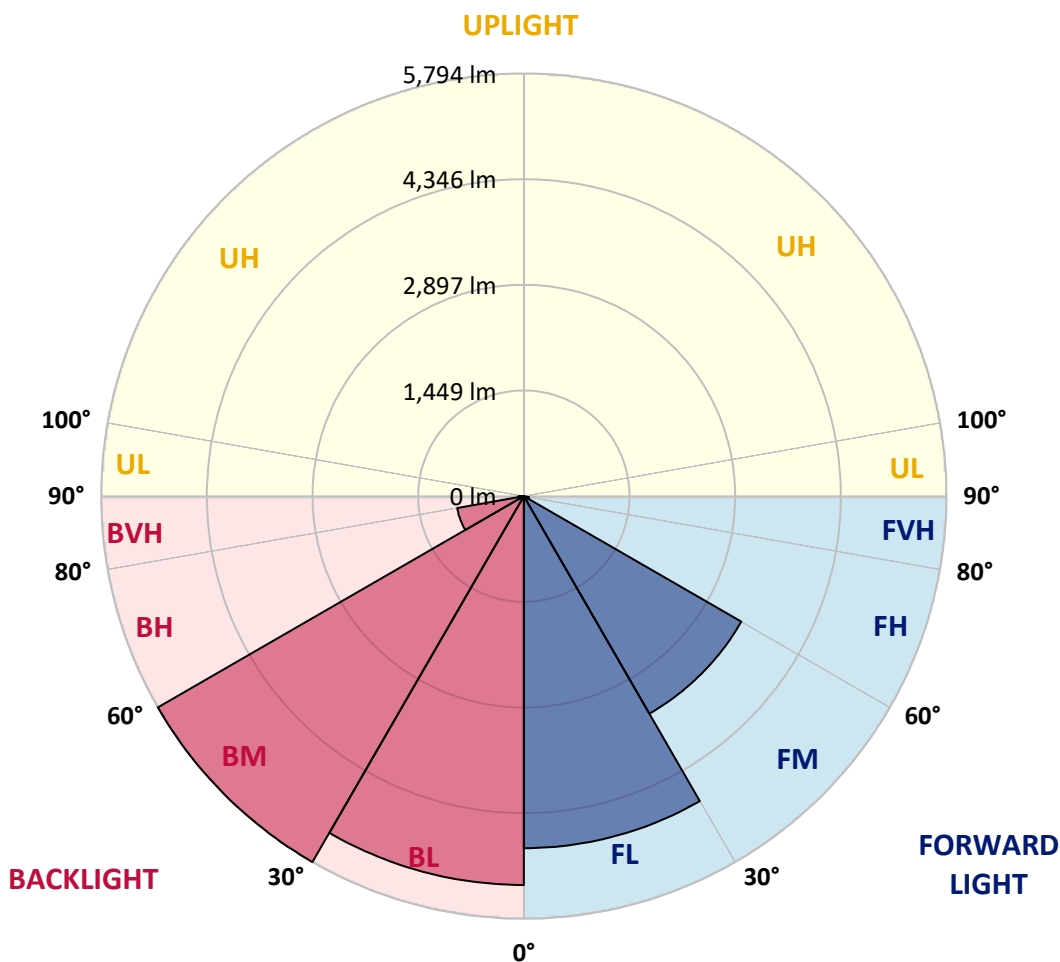
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4826.9	23.6			
FM (30°-60°)	3443.6	16.8			
FH (60°-80°)	72.2	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	5332.2	26.0	B5		
BM (30°-60°)	5794.5	28.3	B4/8500		
BH (60°-80°)	928.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	72.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0
2.5°	15553.2	15573.4	15463.8	15475.4	15495.5	15642.6	15605.1	15570.5	15521.5	15605.1
5°	15533.0	15544.6	15429.2	15388.8	15406.1	15538.8	15417.7	15417.7	15406.1	15391.7
7.5°	15377.3	15383.1	15293.7	15221.6	15267.7	15328.3	15238.9	15282.2	15218.7	15267.7
10°	15143.8	15106.3	14999.6	14979.4	15031.3	15089.0	15028.4	15068.8	15011.1	15048.6
12.5°	14800.6	14743.0	14656.5	14630.5	14719.9	14797.7	14748.7	14725.7	14650.7	14743.0
15°	13477.1	13433.9	13630.0	13973.1	14281.6	14347.9	14296.0	14319.1	14163.4	14189.3
17.5°	11092.5	11011.8	11222.3	12035.4	13194.6	13805.8	13759.7	13609.8	13379.1	13431.0
20°	10080.5	10057.4	10034.3	10227.5	11037.8	12891.8	12955.2	12574.6	12245.9	12173.8
22.5°	9509.5	9500.9	9477.8	9521.1	9734.4	10925.3	11651.9	11300.1	11081.0	11060.8
25°	8987.6	8973.2	8904.0	8958.8	8958.8	9028.0	9959.4	10172.7	9979.5	9956.5
27.5°	8457.1	8431.1	8419.6	8445.6	8312.9	7845.8	8082.2	9123.2	9022.2	9028.0
30°	7883.3	7874.6	7842.9	7897.7	7488.3	6908.7	6758.8	8171.6	8191.8	8186.0
32.5°	7029.8	7067.3	7211.5	7272.0	6597.3	6118.6	5867.8	7070.2	7482.5	7473.8
35°	5106.5	5106.5	5576.5	6450.2	5781.3	5420.8	5285.3	5994.6	6781.8	6810.7
37.5°	4198.3	4212.7	4305.0	4702.9	4988.3	4861.5	4821.1	5046.0	5882.2	5928.3
40°	3777.3	3777.3	3777.3	3612.9	3604.3	4379.9	4356.9	4284.8	5080.6	5181.5
42.5°	3393.8	3402.4	3408.2	2993.0	2762.3	3785.9	3734.0	3624.5	4362.6	4480.8
45°	2998.8	3013.2	3030.5	2502.8	2401.9	2724.8	3160.2	3039.1	3653.3	3806.1
47.5°	1831.0	1854.0	2246.2	2122.2	2133.7	2102.0	2577.8	2557.6	2995.9	3212.1
50°	1237.0	1245.6	1283.1	1346.6	1831.0	1652.2	1825.2	2116.4	2275.0	2603.7
52.5°	1038.0	1052.5	960.2	873.7	1202.4	1291.8	1274.5	1571.5	1634.9	2041.5
55°	729.5	775.6	732.4	723.7	683.4	1003.4	965.9	1208.2	1248.5	1551.3
57.5°	75.0	86.5	149.9	539.2	446.9	568.0	689.1	885.2	925.6	1144.7
60°	5.8	5.8	14.4	75.0	325.8	340.2	475.8	545.0	622.8	798.7
62.5°	0.0	2.9	5.8	11.5	51.9	181.7	239.3	285.5	374.8	516.1
65°	0.0	0.0	2.9	8.7	11.5	69.2	92.3	149.9	204.7	320.1
67.5°	0.0	0.0	2.9	5.8	8.7	17.3	31.7	54.8	109.6	181.7
70°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	34.6	49.0	98.0
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	17.3	23.1	34.6	49.0
75°	0.0	0.0	2.9	2.9	8.7	17.3	14.4	17.3	23.1	31.7
77.5°	0.0	0.0	2.9	5.8	8.7	17.3	14.4	17.3	17.3	20.2
80°	0.0	0.0	2.9	5.8	11.5	20.2	17.3	17.3	14.4	14.4
82.5°	0.0	0.0	2.9	8.7	11.5	26.0	26.0	23.1	11.5	8.7
85°	0.0	0.0	5.8	11.5	17.3	28.8	28.8	23.1	8.7	5.8
87.5°	0.0	0.0	5.8	8.7	14.4	20.2	28.8	23.1	8.7	2.9
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°
15582.0	0°	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0	15582.0
15533.0	2.5°	15610.9	15593.6	15651.2	15674.3	15706.0	15584.9	15510.0	15512.8	15374.4
15357.1	5°	15449.4	15452.3	15527.3	15521.5	15553.2	15486.9	15458.1	15409.0	15287.9
15135.1	7.5°	15244.7	15218.7	15290.8	15345.6	15264.9	15311.0	15244.7	15267.7	15195.7
14939.0	10°	15086.1	15025.5	15091.9	15129.3	15132.2	15086.1	15022.7	14962.1	14936.2
14633.4	12.5°	14734.3	14656.5	14768.9	14820.8	14812.2	14722.8	14650.7	14665.1	14581.5
14097.1	15°	14249.9	14252.8	14333.5	14382.5	14336.4	14316.2	14322.0	14287.4	14215.3
13356.0	17.5°	13508.9	13552.1	13765.5	13883.7	13909.7	13869.3	13849.1	13808.7	13736.6
12173.8	20°	12274.7	12534.3	12914.9	13281.1	13353.1	13341.6	13269.5	13252.2	13211.9
11003.2	22.5°	11190.6	11383.8	11824.9	12395.9	12690.0	12718.8	12632.3	12606.3	12563.1
9956.5	25°	10068.9	10276.5	10674.4	11294.4	11902.8	12026.8	12012.4	11934.5	11888.4
9028.0	27.5°	9123.2	9330.8	9691.2	10250.6	10902.2	11300.1	11337.6	11213.6	11210.8
8200.5	30°	8269.7	8555.1	8829.1	9284.6	9916.1	10513.0	10576.4	10489.9	10498.6
7442.1	32.5°	7600.7	7837.2	8070.7	8376.4	8901.1	9596.0	9844.0	9763.3	9731.6
6810.7	35°	6917.3	7078.8	7318.1	7597.8	7955.4	8644.5	9074.1	9013.6	8981.9
5957.2	37.5°	6138.8	6415.6	6588.6	6902.9	7182.6	7730.5	8336.0	8327.3	8261.0
5230.5	40°	5340.1	5631.3	5893.7	6210.9	6427.2	6862.6	7534.4	7531.5	7540.2
4478.0	42.5°	4616.4	4884.5	5201.7	5547.7	5755.3	6072.5	6793.4	6833.7	6882.7
3858.0	45°	3961.8	4204.0	4498.1	4919.1	5170.0	5351.6	5991.8	6176.3	6173.4
3304.4	47.5°	3373.6	3601.4	3849.4	4258.8	4578.9	4743.2	5273.8	5536.2	5518.9
2710.4	50°	2831.5	3033.4	3292.9	3589.9	4019.5	4163.7	4558.7	4904.7	4878.8
2159.7	52.5°	2277.9	2557.6	2776.7	3047.8	3500.5	3641.8	3947.4	4284.8	4264.6
1620.5	55°	1776.2	2047.2	2312.5	2546.1	2926.7	3137.2	3356.3	3702.3	3696.6
1268.7	57.5°	1343.7	1640.7	1891.5	2113.6	2416.3	2675.8	2851.7	3166.0	3206.4
867.9	60°	994.8	1222.6	1493.6	1741.6	1980.9	2249.1	2367.3	2675.8	2693.1
594.0	62.5°	677.6	928.5	1193.7	1418.6	1597.4	1874.2	1980.9	2234.7	2266.4
380.6	65°	470.0	631.5	934.2	1095.7	1314.8	1551.3	1658.0	1859.8	1923.2
219.1	67.5°	311.4	449.8	729.5	876.6	1092.8	1254.3	1389.8	1554.2	1623.4
138.4	70°	170.1	331.6	521.9	692.0	879.4	1035.2	1167.8	1300.4	1361.0
63.4	72.5°	115.3	222.0	363.3	547.9	709.3	862.1	980.4	1078.4	1081.3
37.5	75°	57.7	149.9	276.8	423.9	553.6	703.6	810.2	867.9	798.7
23.1	77.5°	34.6	109.6	224.9	340.2	449.8	568.0	628.6	660.3	547.9
17.3	80°	20.2	77.9	175.9	271.0	311.4	418.1	475.8	484.4	366.2
11.5	82.5°	14.4	57.7	138.4	199.0	190.3	294.1	357.5	346.0	233.6
8.7	85°	8.7	40.4	86.5	124.0	115.3	193.2	207.6	213.4	135.5
5.8	87.5°	5.8	23.1	46.1	66.3	54.8	83.6	83.6	100.9	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15582.0
<i>15195.7</i>
15259.1
15074.6
14820.8
14509.4
14143.2
13704.9
13119.6
12551.6
11839.4
11205.0
10455.3
9734.4
8938.6
8315.8
7540.2
6856.8
6179.2
5524.6
4901.8
4307.8
3711.0
3189.1
2719.1
2272.1
1908.8
1614.7
1337.9
1055.3
746.8
527.7
343.1
216.3
124.0
57.7
0.0

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