

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: P637924

Luminaire Tested: **IFLD-L-SA8C-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42720.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

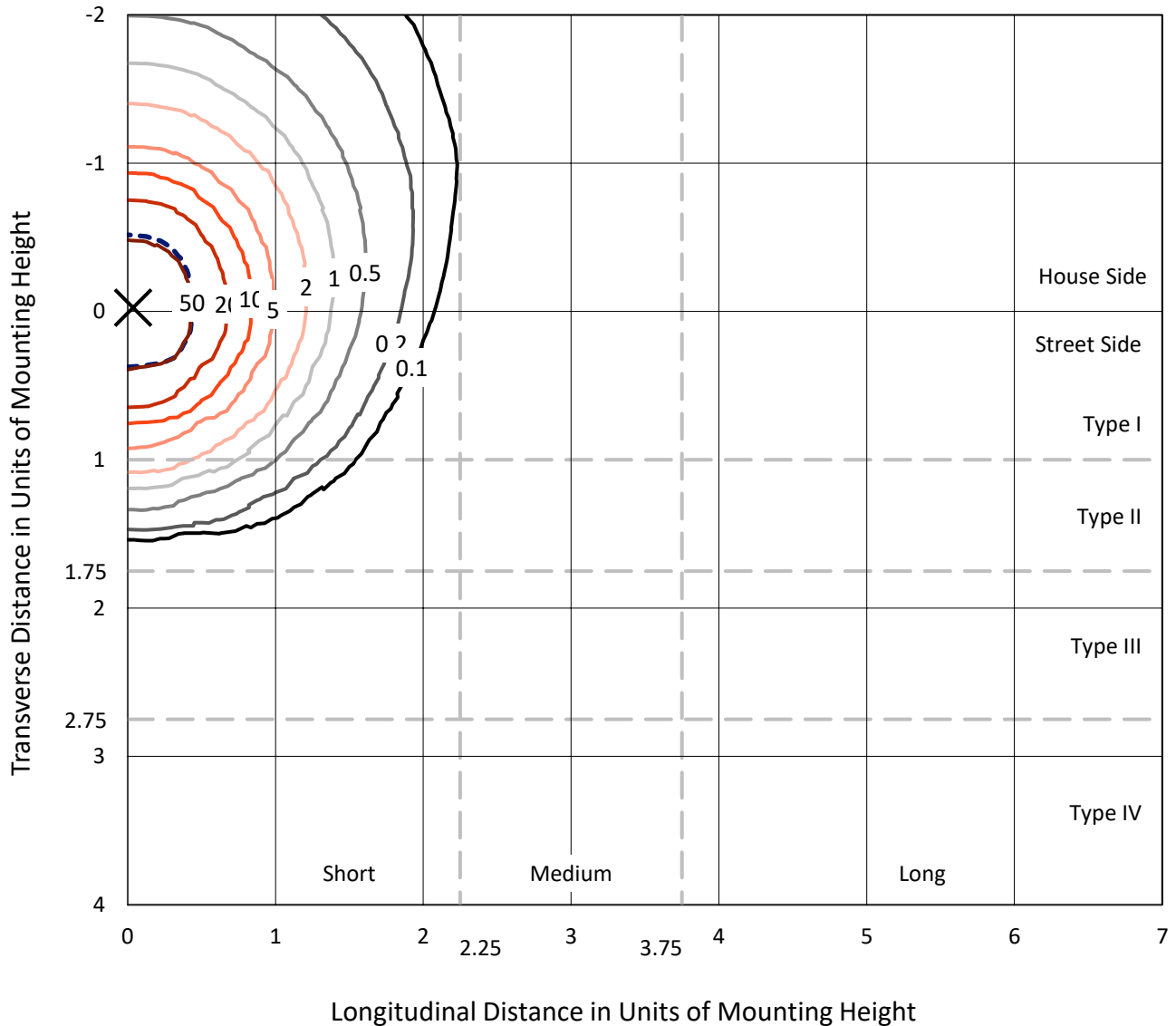
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

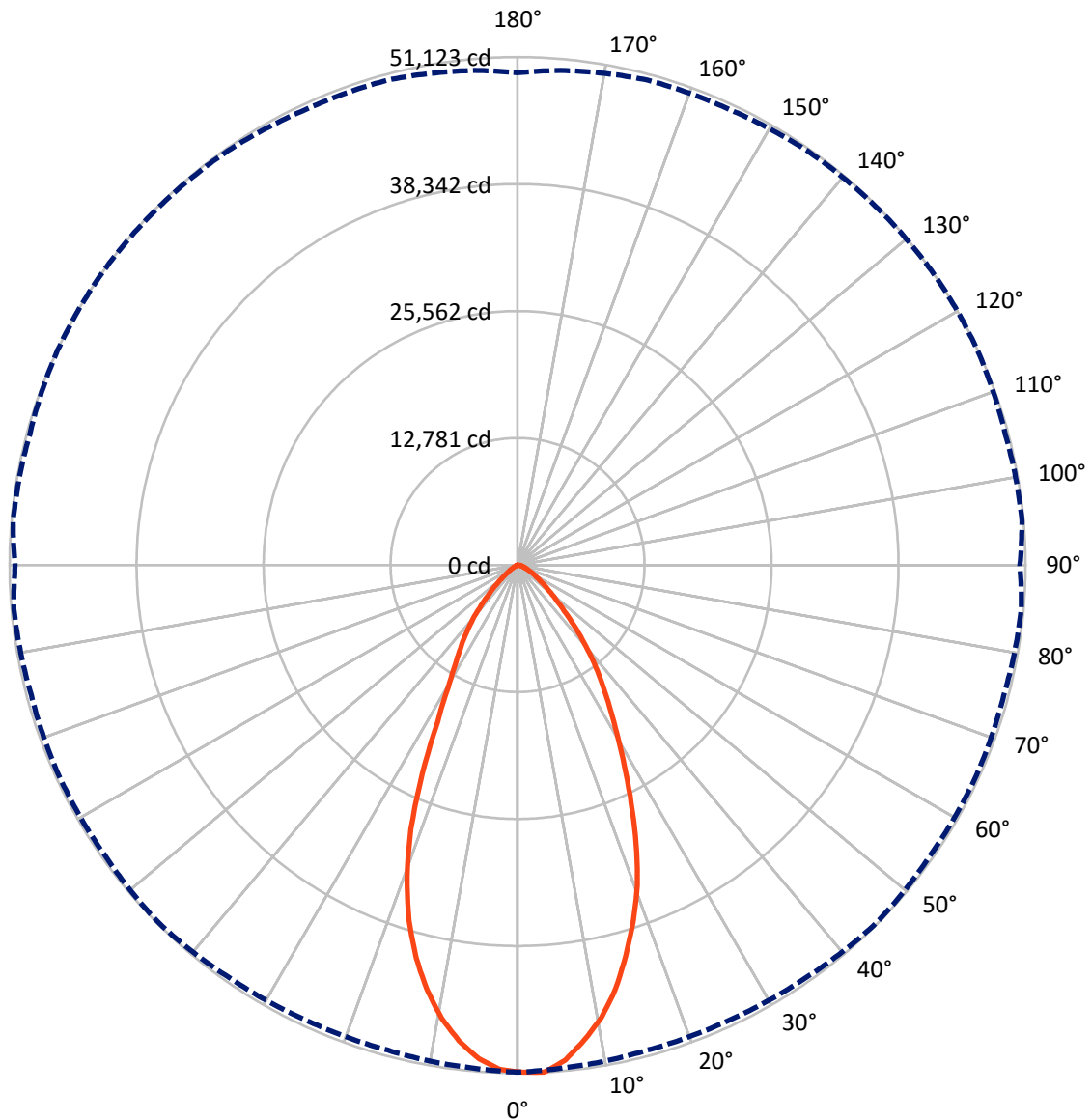
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 127.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24241.3	0.0	24241.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18479.2	0.0	18479.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	42720.5	0.0	42720.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4634.7	10.8
10°-20°	11048.0	25.9
20°-30°	11252.2	26.3
30°-40°	8390.7	19.6
40°-50°	4383.5	10.3
50°-60°	1843.7	4.3
60°-70°	753.0	1.8
70°-80°	316.9	0.7
80°-90°	97.6	0.2
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°	42720.5	100.0
0°-180°	42720.5	100.0



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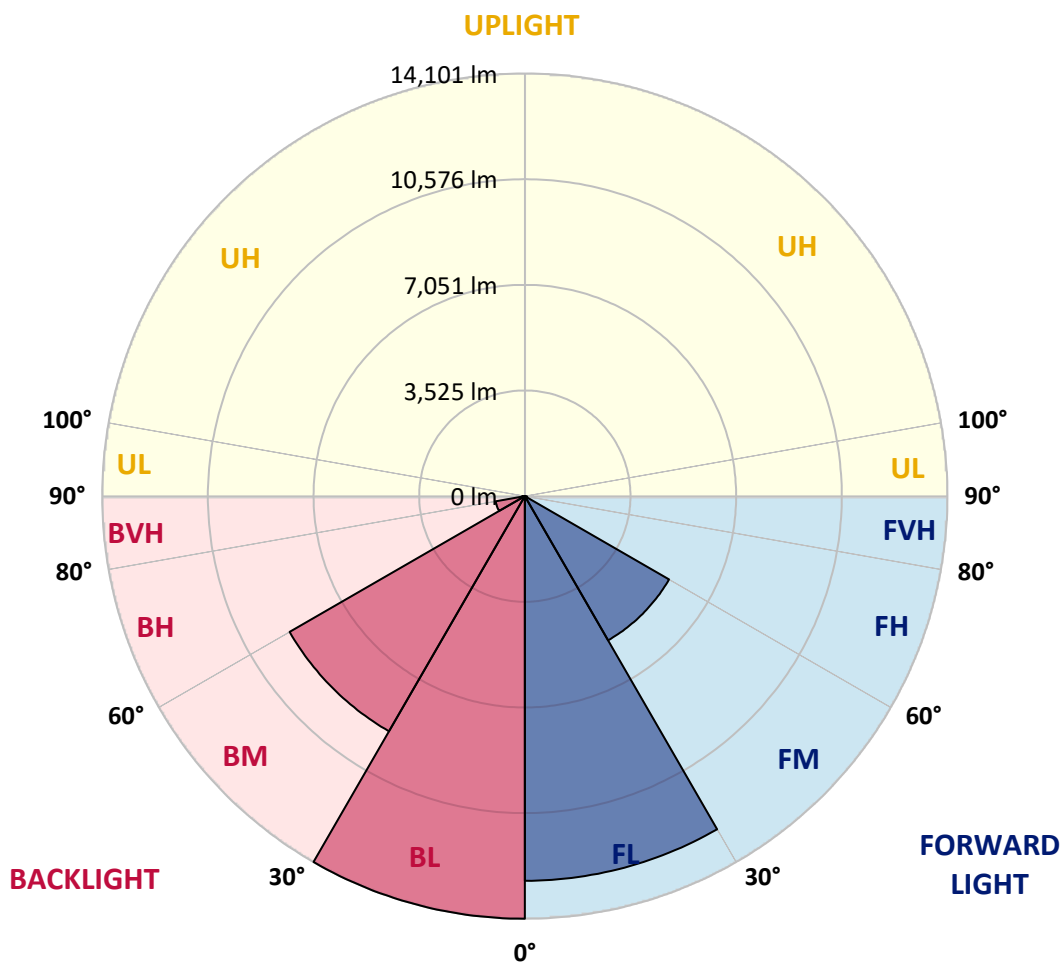
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12833.8	30.0			
FM (30°-60°)	5556.0	13.0			
FH (60°-80°)	80.4	0.2			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	14101.2	33.0	B5		
BM (30°-60°)	9062.1	21.2	B5		
BH (60°-80°)	989.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	88.6	0.2			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°	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6
2.5°	51046.1	50837.6	50541.3	50513.8	50667.5	51002.2	50788.2	50799.2	50667.5	50892.5
5°	50244.9	50047.4	49844.3	49575.4	49800.4	49943.1	49833.4	49712.6	49542.5	49762.0
7.5°	48730.3	48620.6	48318.8	48198.0	48335.2	48494.4	48258.4	48225.5	47989.5	48274.9
10°	46414.5	46370.6	46074.3	46003.0	46123.7	46365.2	46260.9	46238.9	46090.8	46063.3
12.5°	44011.0	43840.8	43473.2	43451.2	43632.3	43994.5	43714.6	43445.7	43528.0	43599.4
15°	37820.9	37639.8	38550.7	39983.0	40734.8	40707.4	40789.7	40465.9	40367.2	40400.1
17.5°	30066.8	29759.5	30088.8	32305.8	35878.3	37952.6	37381.9	36684.9	36311.8	36064.8
20°	25951.1	25967.6	25907.2	26477.9	28705.9	33436.3	33299.1	31954.6	31466.2	31263.1
22.5°	23448.7	23355.4	23223.7	23404.8	24003.0	26779.7	28640.0	27405.3	27235.2	27010.2
25°	20995.8	20995.8	20836.6	21017.7	21187.8	21226.2	23092.0	23596.9	23267.6	23267.6
27.5°	18872.0	18762.3	18690.9	18773.3	18548.3	17467.2	17703.2	20287.8	20062.9	19925.7
30°	16764.8	16731.8	16611.1	16720.9	15886.7	14668.5	14174.6	17121.5	17357.4	17308.0
32.5°	13839.9	13971.6	14509.3	14679.5	13252.7	12270.4	11798.4	14213.0	15156.9	15118.5
35°	9405.8	9515.6	10130.2	12160.6	10986.3	10283.9	10146.7	11304.6	12857.6	13005.7
37.5°	7490.6	7474.2	7649.8	8012.0	8829.6	8659.5	8621.1	8922.9	10486.9	10552.8
40°	6173.6	6151.7	6146.2	5849.8	5646.8	7199.8	7095.5	6914.4	8269.9	8401.6
42.5°	4977.3	4999.2	5015.7	4368.2	4071.8	5553.5	5493.1	5306.6	6486.4	6640.1
45°	3907.2	3901.7	3934.6	3254.2	3171.9	3550.5	4104.8	3956.6	4895.0	5059.6
47.5°	2024.9	2096.3	2540.8	2518.8	2557.2	2518.8	3106.0	3067.6	3682.2	3945.6
50°	1360.9	1382.9	1421.3	1426.8	2014.0	1854.8	2107.3	2387.1	2579.2	2985.3
52.5°	1053.6	1070.1	971.3	910.9	1234.7	1371.9	1382.9	1651.8	1799.9	2211.5
55°	587.2	658.5	707.9	713.4	680.5	1015.2	1009.7	1223.7	1339.0	1613.4
57.5°	76.8	93.3	142.7	461.0	455.5	565.2	707.9	889.0	954.9	1179.8
60°	5.5	11.0	16.5	71.3	301.8	329.3	482.9	554.3	664.0	828.6
62.5°	0.0	0.0	5.5	16.5	60.4	192.1	252.4	290.8	389.6	543.3
65°	0.0	0.0	5.5	11.0	22.0	71.3	98.8	159.1	230.5	334.7
67.5°	0.0	0.0	5.5	11.0	16.5	27.4	43.9	71.3	120.7	203.0
70°	0.0	0.0	5.5	11.0	16.5	22.0	32.9	43.9	65.9	109.8
72.5°	0.0	0.0	5.5	5.5	11.0	27.4	27.4	32.9	43.9	60.4
75°	0.0	0.0	5.5	11.0	16.5	27.4	27.4	27.4	32.9	38.4
77.5°	0.0	0.0	5.5	11.0	16.5	27.4	22.0	27.4	27.4	27.4
80°	0.0	0.0	5.5	11.0	16.5	27.4	32.9	27.4	22.0	22.0
82.5°	0.0	0.0	5.5	16.5	16.5	38.4	38.4	38.4	16.5	16.5
85°	0.0	0.0	11.0	16.5	27.4	43.9	43.9	32.9	16.5	11.0
87.5°	0.0	0.0	5.5	11.0	11.0	22.0	32.9	27.4	11.0	5.5
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°
51040.6	0°	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6	51040.6
50563.2	2.5°	50969.3	50832.1	51090.0	51123.0	51013.2	50876.0	50557.7	50530.3	49976.0
49443.7	5°	50003.5	49778.5	49943.1	50052.9	50014.4	49866.3	49734.6	49613.8	49114.5
47627.3	7.5°	48203.5	48121.2	48198.0	48280.3	48439.5	48280.3	48225.5	48099.3	47605.4
45838.3	10°	46206.0	46052.4	46343.2	46304.8	46260.9	46217.0	45986.5	46008.5	45426.8
43401.8	12.5°	43753.0	43495.1	43775.0	43807.9	43775.0	43621.3	43363.4	43473.2	42940.9
40109.2	15°	40455.0	40427.5	40630.6	40762.3	40855.6	40690.9	40603.1	40658.0	40339.7
35872.8	17.5°	36405.1	36761.8	37425.8	37650.8	37656.3	37826.4	37777.0	37711.1	37475.2
31180.8	20°	31641.8	32327.7	33348.5	34396.6	34698.4	34555.7	34489.9	34610.6	34259.4
26774.2	22.5°	27246.2	27833.4	29018.7	30549.8	31433.3	31521.1	31504.6	31400.3	31263.1
23245.7	25°	23514.6	24035.9	25171.9	26571.2	28266.9	28519.3	28530.3	28497.4	28376.6
20046.4	27.5°	20364.7	20995.8	21621.3	22872.5	24678.0	25720.6	25588.9	25550.5	25506.6
17346.5	30°	17511.1	18306.8	18894.0	19673.2	21292.1	22702.4	22839.6	22773.7	22669.5
15113.0	32.5°	15250.2	15722.1	16468.4	16995.3	18158.6	19755.5	20282.4	20233.0	20139.7
13099.0	35°	13285.6	13472.2	14059.4	14646.5	15420.3	16967.8	17747.1	17637.3	17620.8
10673.5	37.5°	10942.4	11568.0	11891.7	12484.4	13027.7	14229.5	15305.1	15255.7	15261.2
8582.7	40°	8835.1	9197.3	9839.4	10338.7	10838.1	11716.1	12912.4	12945.4	12934.4
6645.5	42.5°	6782.7	7133.9	7808.9	8352.2	8796.7	9340.0	10481.4	10519.8	10569.2
5174.9	45°	5295.6	5520.6	6014.5	6579.7	7051.6	7380.9	8247.9	8494.9	8500.4
4011.5	47.5°	4110.3	4368.2	4719.4	5262.7	5723.6	5959.6	6590.7	6925.4	6909.0
3078.6	50°	3226.7	3462.7	3748.1	4176.1	4675.5	4862.1	5328.5	5657.8	5641.3
2321.3	52.5°	2469.4	2771.3	3023.7	3353.0	3841.4	4000.5	4335.2	4713.9	4659.0
1701.2	55°	1871.3	2178.6	2414.6	2688.9	3133.4	3336.5	3567.0	3868.8	3879.8
1317.0	57.5°	1410.3	1728.6	1942.6	2222.5	2557.2	2782.2	2957.8	3281.6	3276.1
900.0	60°	1009.7	1284.1	1542.0	1832.9	2090.8	2348.7	2469.4	2776.8	2787.7
636.6	62.5°	729.9	987.8	1234.7	1487.2	1717.6	1970.1	2079.8	2321.3	2354.2
417.1	65°	510.4	691.4	976.8	1168.9	1426.8	1613.4	1756.0	1964.6	2003.0
246.9	67.5°	329.3	499.4	773.8	943.9	1179.8	1339.0	1487.2	1651.8	1701.2
159.1	70°	197.6	378.6	576.2	757.3	971.3	1114.0	1256.7	1399.4	1426.8
76.8	72.5°	126.2	263.4	417.1	614.6	779.2	932.9	1059.1	1163.4	1081.1
49.4	75°	71.3	181.1	329.3	482.9	631.1	779.2	883.5	938.4	751.8
32.9	77.5°	43.9	131.7	268.9	389.6	488.4	625.6	691.4	724.4	537.8
22.0	80°	27.4	98.8	225.0	318.3	318.3	461.0	537.8	565.2	389.6
16.5	82.5°	22.0	71.3	175.6	241.5	214.0	345.7	422.5	428.0	274.4
11.0	85°	16.5	54.9	109.8	159.1	148.2	241.5	246.9	274.4	181.1
11.0	87.5°	11.0	32.9	65.9	93.3	82.3	115.2	131.7	148.2	98.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
51040.6
49542.5
48713.9
47501.1
45229.2
42787.2
39955.6
37124.0
34007.0
30999.7
27970.6
25248.7
22537.8
19892.7
17439.8
15085.6
12742.3
10404.6
8357.7
6848.6
5641.3
4664.5
3879.8
3265.2
2760.3
2343.2
1992.0
1695.7
1404.8
1004.2
713.4
504.9
362.2
252.4
164.6
87.8
0.0

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