

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: P638070

Luminaire Tested: **IFLD-L-SA8D-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31585.5 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

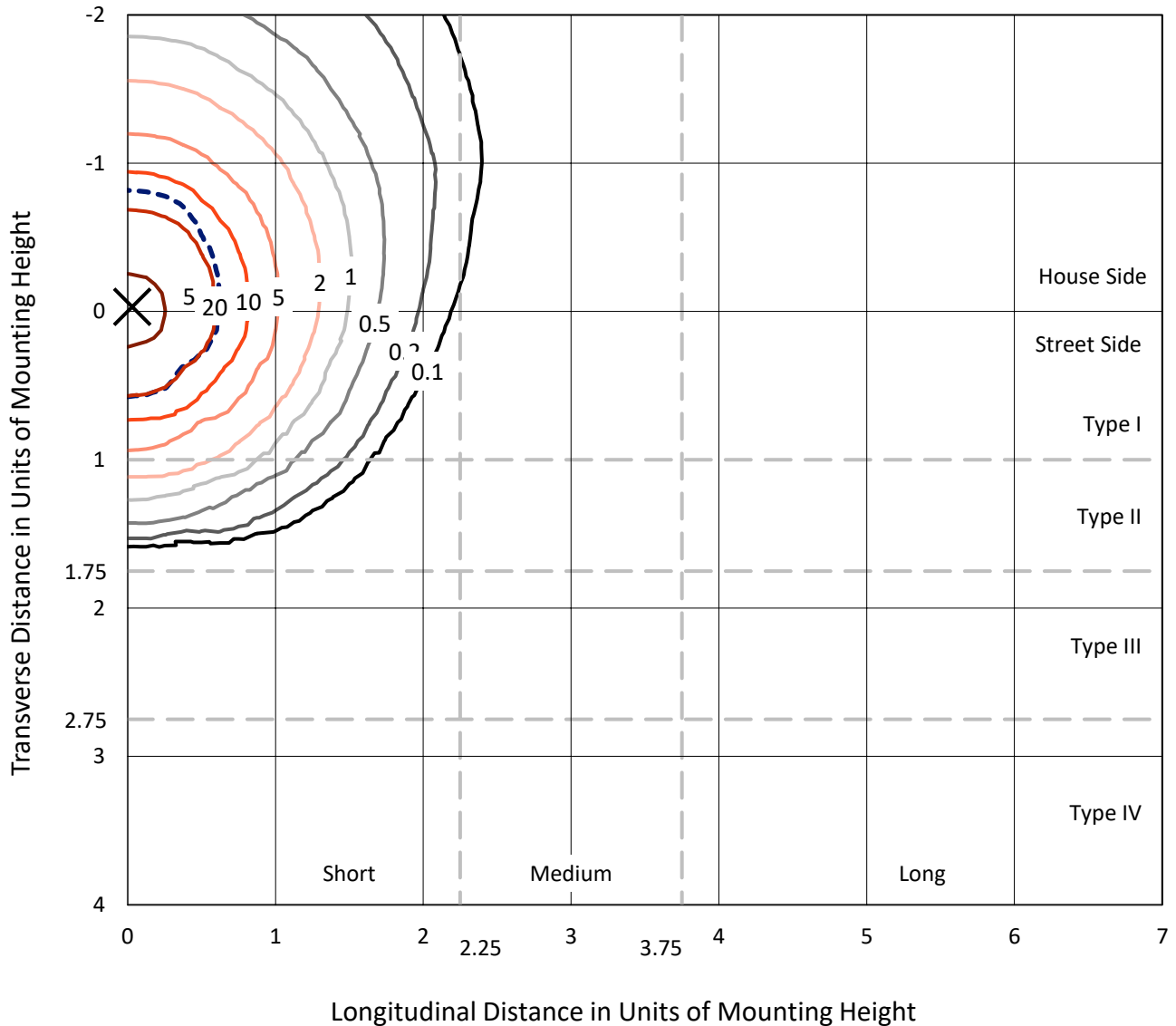
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

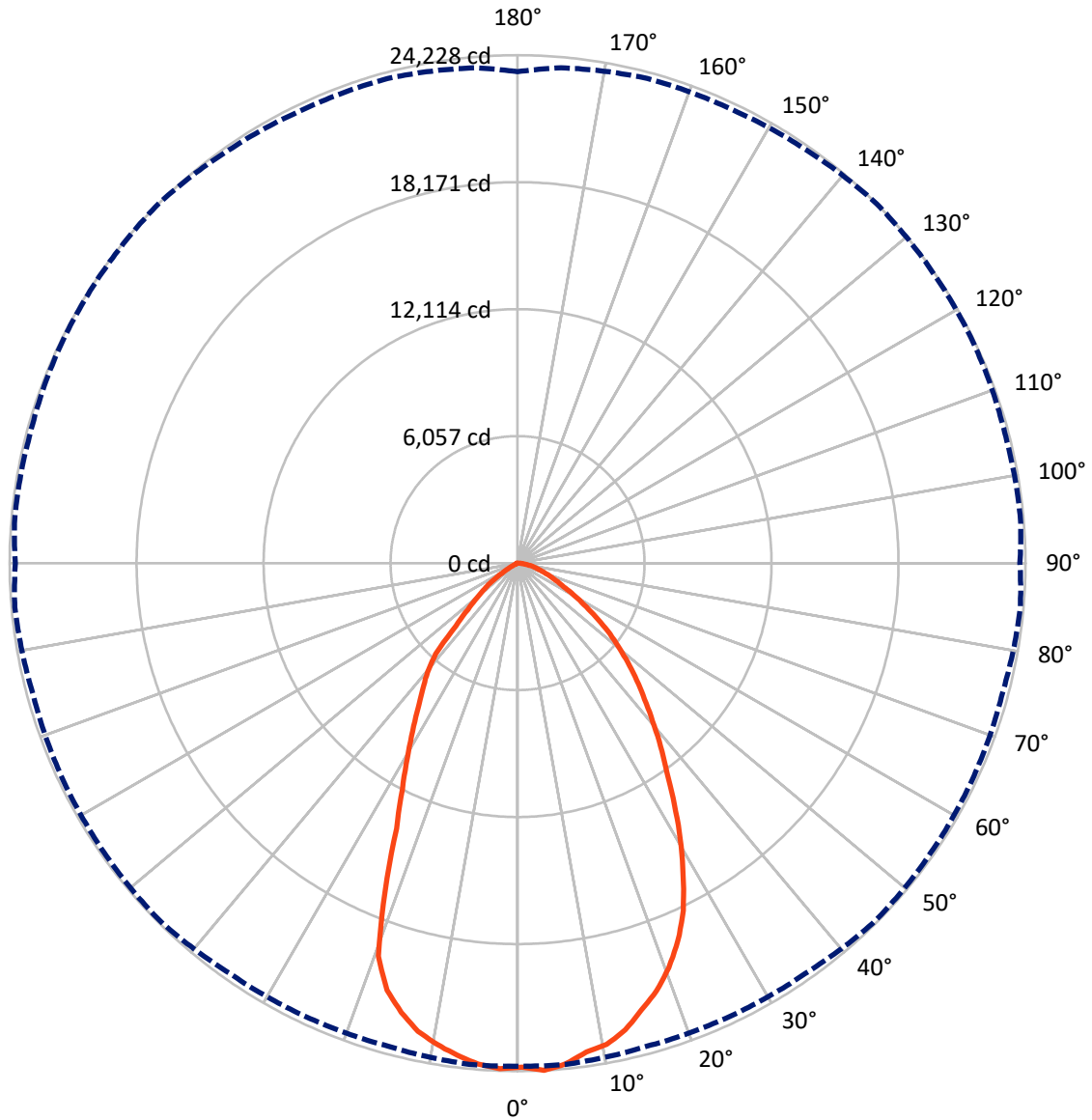
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.1 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	18706.6	0.0	18706.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12879.0	0.0	12879.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	31585.5	0.0	31585.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2254.2	7.1
10°-20°	6044.9	19.1
20°-30°	7372.1	23.3
30°-40°	6730.6	21.3
40°-50°	4864.1	15.4
50°-60°	2655.8	8.4
60°-70°	1098.1	3.5
70°-80°	444.7	1.4
80°-90°	121.0	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°	31585.5	100.0
0°-180°	31585.5	100.0



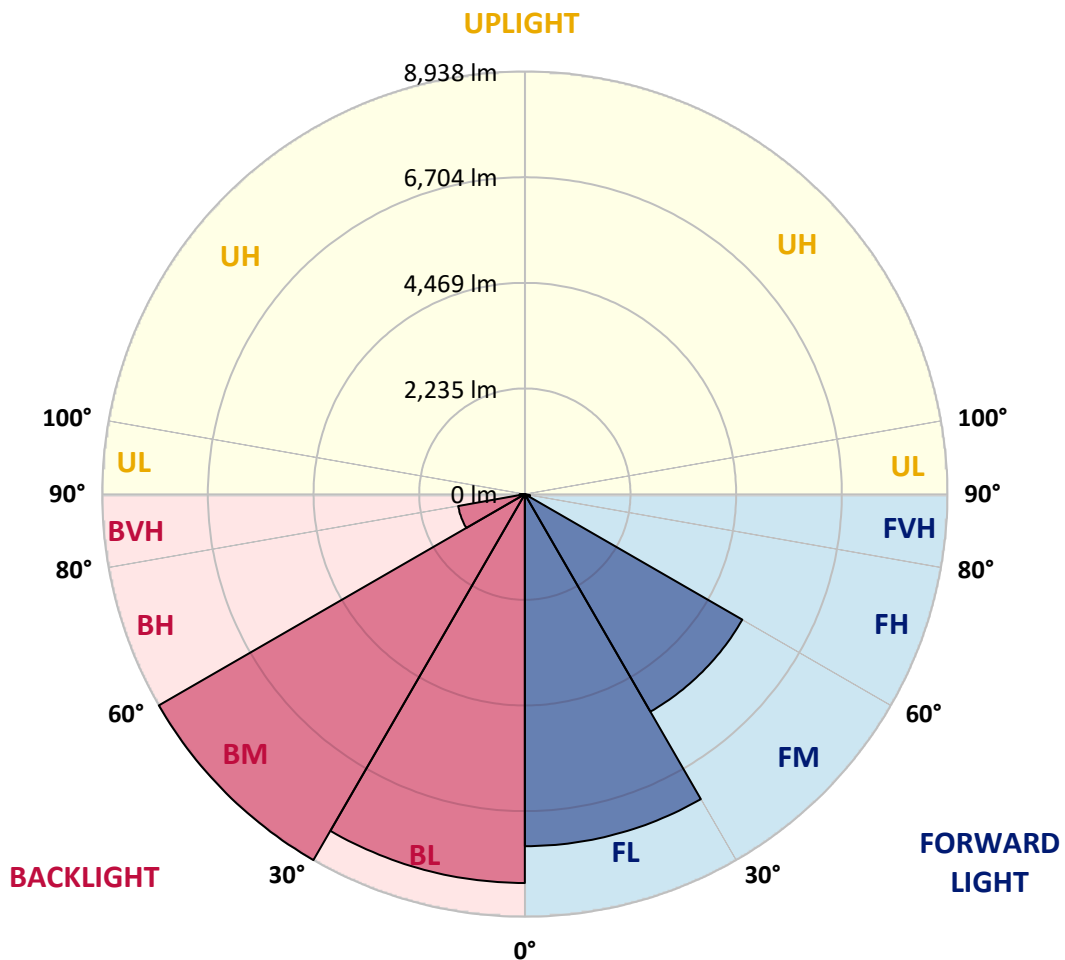
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7445.9	23.6			
FM (30°-60°)	5312.1	16.8			
FH (60°-80°)	111.3	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	8225.3	26.0	B5		
BM (30°-60°)	8938.4	28.3	B5		
BH (60°-80°)	1431.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	111.3	0.4			G2/225
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°	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5
2.5°	23992.0	24023.2	23854.2	23871.9	23903.1	24129.9	24072.1	24018.7	23943.1	24072.1
5°	23960.9	23978.7	23800.8	23738.5	23765.2	23969.8	23783.0	23783.0	23765.2	23743.0
7.5°	23720.7	23729.6	23591.7	23480.5	23551.7	23645.1	23507.2	23573.9	23476.1	23551.7
10°	23360.4	23302.6	23138.0	23106.9	23187.0	23275.9	23182.5	23244.8	23155.8	23213.7
12.5°	22831.1	22742.2	22608.7	22568.7	22706.6	22826.7	22751.1	22715.5	22599.8	22742.2
15°	20789.5	20722.8	21025.3	21554.6	22030.5	22132.8	22052.7	22088.3	21848.1	21888.2
17.5°	17111.1	16986.6	17311.3	18565.6	20353.6	21296.6	21225.4	20994.1	20638.3	20718.4
20°	15549.9	15514.3	15478.7	15776.7	17026.6	19886.6	19984.5	19397.3	18890.3	18779.1
22.5°	14669.2	14655.9	14620.3	14687.0	15016.2	16853.1	17974.0	17431.4	17093.3	17062.2
25°	13864.1	13841.9	13735.2	13819.7	13819.7	13926.4	15363.1	15692.2	15394.2	15358.6
27.5°	13045.7	13005.7	12987.9	13027.9	12823.3	12102.8	12467.5	14073.2	13917.5	13926.4
30°	12160.6	12147.2	12098.3	12182.8	11551.2	10657.2	10425.9	12605.4	12636.5	12627.6
32.5°	10844.0	10901.8	11124.2	11217.6	10176.8	9438.5	9051.5	10906.3	11542.3	11529.0
35°	7877.3	7877.3	8602.3	9950.0	8918.1	8362.1	8153.0	9247.2	10461.5	10506.0
37.5°	6476.2	6498.4	6640.7	7254.5	7694.9	7499.2	7436.9	7783.8	9073.7	9144.9
40°	5826.8	5826.8	5826.8	5573.2	5559.9	6756.4	6720.8	6609.6	7837.2	7992.9
42.5°	5235.2	5248.5	5257.4	4616.9	4261.1	5840.1	5760.0	5591.0	6729.7	6912.1
45°	4625.8	4648.1	4674.8	3860.8	3705.1	4203.3	4874.9	4688.1	5635.5	5871.2
47.5°	2824.4	2860.0	3464.9	3273.7	3291.5	3242.5	3976.4	3945.3	4621.4	4955.0
50°	1908.2	1921.5	1979.3	2077.2	2824.4	2548.7	2815.5	3264.8	3509.4	4016.5
52.5°	1601.2	1623.5	1481.2	1347.7	1854.8	1992.7	1966.0	2424.1	2522.0	3149.1
55°	1125.3	1196.5	1129.8	1116.4	1054.2	1547.9	1490.1	1863.7	1925.9	2393.0
57.5°	115.6	133.4	231.3	831.8	689.4	876.2	1063.1	1365.5	1427.8	1765.8
60°	8.9	8.9	22.2	115.6	502.6	524.9	733.9	840.7	960.7	1232.1
62.5°	0.0	4.4	8.9	17.8	80.1	280.2	369.2	440.3	578.2	796.2
65°	0.0	0.0	4.4	13.3	17.8	106.7	142.3	231.3	315.8	493.7
67.5°	0.0	0.0	4.4	8.9	13.3	26.7	48.9	84.5	169.0	280.2
70°	0.0	0.0	4.4	8.9	13.3	22.2	35.6	53.4	75.6	151.2
72.5°	0.0	0.0	4.4	4.4	8.9	22.2	26.7	35.6	53.4	75.6
75°	0.0	0.0	4.4	4.4	13.3	26.7	22.2	26.7	35.6	48.9
77.5°	0.0	0.0	4.4	8.9	13.3	26.7	22.2	26.7	26.7	31.1
80°	0.0	0.0	4.4	8.9	17.8	31.1	26.7	26.7	22.2	22.2
82.5°	0.0	0.0	4.4	13.3	17.8	40.0	40.0	35.6	17.8	13.3
85°	0.0	0.0	8.9	17.8	26.7	44.5	44.5	35.6	13.3	8.9
87.5°	0.0	0.0	8.9	13.3	22.2	31.1	44.5	35.6	13.3	4.4
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°
24036.5	0°	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5	24036.5
23960.9	2.5°	24081.0	24054.3	24143.3	24178.9	24227.8	24041.0	23925.3	23929.8	23716.3
23689.6	5°	23831.9	23836.4	23952.0	23943.1	23992.0	23889.7	23845.3	23769.6	23582.8
23347.1	7.5°	23516.1	23476.1	23587.3	23671.8	23547.2	23618.4	23516.1	23551.7	23440.5
23044.6	10°	23271.5	23178.1	23280.4	23338.2	23342.6	23271.5	23173.6	23080.2	23040.2
22573.2	12.5°	22728.8	22608.7	22782.2	22862.3	22848.9	22711.0	22599.8	22622.1	22493.1
21745.8	15°	21981.6	21986.0	22110.6	22186.2	22115.0	22083.9	22092.8	22039.4	21928.2
20602.7	17.5°	20838.5	20905.2	21234.3	21416.7	21456.7	21394.5	21363.3	21301.1	21189.9
18779.1	20°	18934.8	19335.1	19922.2	20487.1	20598.3	20580.5	20469.3	20442.6	20380.3
16973.2	22.5°	17262.3	17560.4	18240.9	19121.6	19575.3	19619.7	19486.3	19446.3	19379.6
15358.6	25°	15532.1	15852.4	16466.2	17422.5	18361.0	18552.2	18530.0	18409.9	18338.7
13926.4	27.5°	14073.2	14393.4	14949.4	15812.3	16817.6	17431.4	17489.2	17297.9	17293.5
12649.9	30°	12756.6	13197.0	13619.5	14322.3	15296.4	16217.1	16314.9	16181.5	16194.8
11480.1	32.5°	11724.7	12089.4	12449.7	12921.2	13730.7	14802.7	15185.2	15060.6	15011.7
10506.0	35°	10670.5	10919.6	11288.8	11720.2	12271.8	13334.8	13997.6	13904.2	13855.2
9189.4	37.5°	9469.6	9896.6	10163.5	10648.3	11079.7	11924.9	12858.9	12845.6	12743.3
8068.5	40°	8237.5	8686.8	9091.5	9580.8	9914.4	10586.0	11622.4	11617.9	11631.3
6907.6	42.5°	7121.1	7534.8	8024.0	8557.8	8878.0	9367.3	10479.3	10541.6	10617.2
5951.3	45°	6111.4	6485.1	6938.7	7588.1	7975.1	8255.3	9242.8	9527.4	9523.0
5097.3	47.5°	5204.1	5555.4	5938.0	6569.6	7063.3	7316.8	8135.2	8540.0	8513.3
4181.0	50°	4367.9	4679.2	5079.5	5537.7	6200.4	6422.8	7032.1	7565.9	7525.9
3331.5	52.5°	3513.9	3945.3	4283.3	4701.4	5399.8	5617.7	6089.2	6609.6	6578.5
2499.7	55°	2739.9	3158.0	3567.2	3927.5	4514.6	4839.3	5177.4	5711.1	5702.2
1957.1	57.5°	2072.7	2530.9	2917.8	3260.3	3727.4	4127.7	4399.0	4883.8	4946.1
1338.8	60°	1534.5	1885.9	2304.0	2686.5	3055.7	3469.4	3651.7	4127.7	4154.4
916.3	62.5°	1045.3	1432.2	1841.4	2188.4	2464.1	2891.1	3055.7	3447.1	3496.1
587.1	65°	725.0	974.1	1441.1	1690.2	2028.2	2393.0	2557.5	2868.9	2966.8
338.0	67.5°	480.4	693.9	1125.3	1352.2	1685.8	1934.8	2143.9	2397.4	2504.2
213.5	70°	262.4	511.5	805.1	1067.5	1356.6	1596.8	1801.4	2006.0	2099.4
97.9	72.5°	177.9	342.5	560.4	845.1	1094.2	1329.9	1512.3	1663.5	1668.0
57.8	75°	89.0	231.3	427.0	653.8	854.0	1085.3	1249.9	1338.8	1232.1
35.6	77.5°	53.4	169.0	346.9	524.9	693.9	876.2	969.6	1018.6	845.1
26.7	80°	31.1	120.1	271.3	418.1	480.4	644.9	733.9	747.2	564.9
17.8	82.5°	22.2	89.0	213.5	306.9	293.6	453.7	551.5	533.7	360.3
13.3	85°	13.3	62.3	133.4	191.3	177.9	298.0	320.2	329.1	209.1
8.9	87.5°	8.9	35.6	71.2	102.3	84.5	129.0	129.0	155.7	102.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24036.5
23440.5
23538.4
23253.7
22862.3
22381.9
21817.0
21140.9
20238.0
19361.8
18263.1
17284.6
16128.1
15016.2
13788.5
12827.8
11631.3
10577.1
9531.9
8522.2
7561.5
6645.2
5724.5
4919.4
4194.4
3505.0
2944.5
2490.8
2063.8
1627.9
1152.0
814.0
529.3
333.6
191.3
89.0
0.0

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