

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: P638031

Luminaire Tested: **IFLD-M-SA4D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638031
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20960.8 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

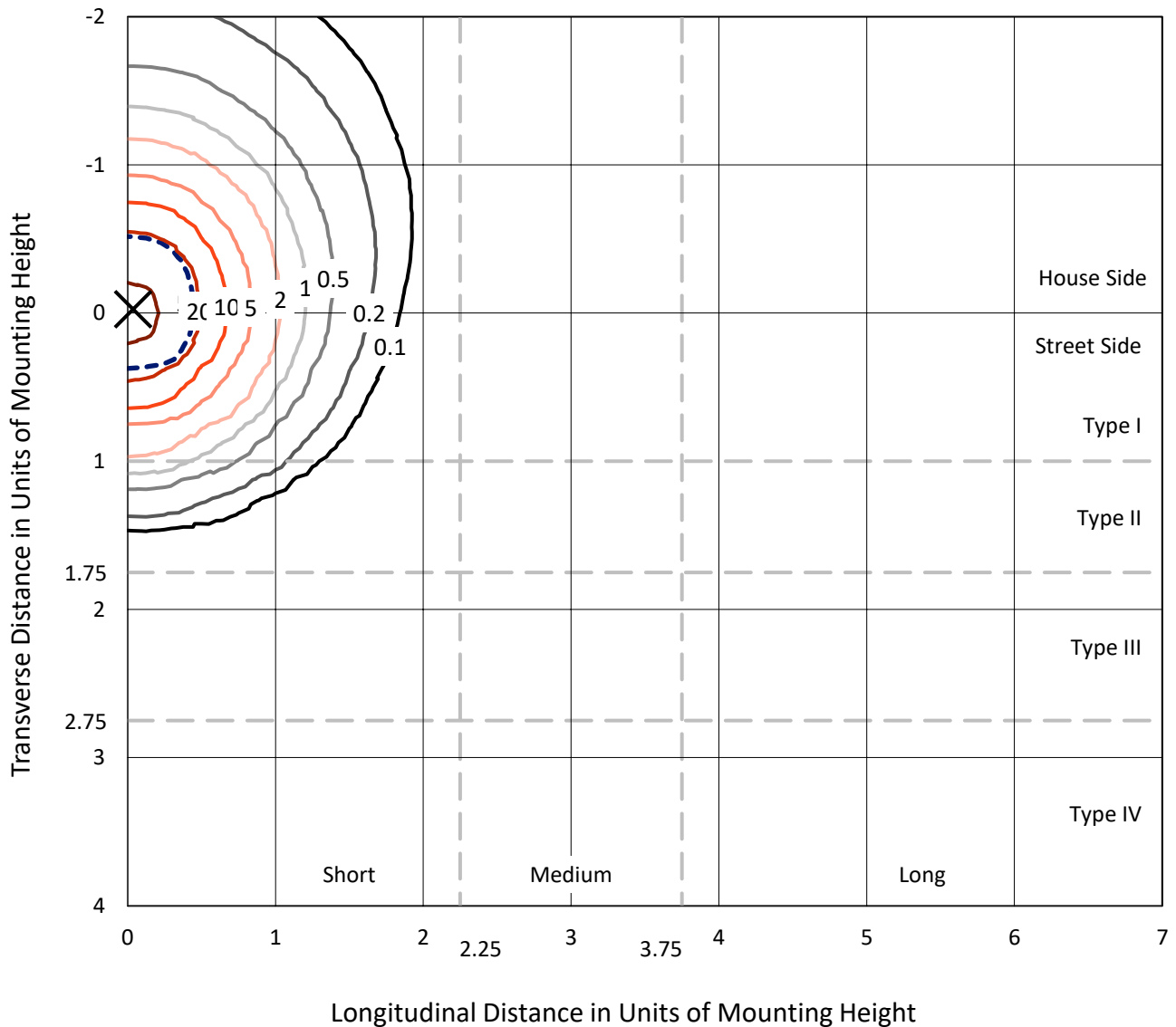
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

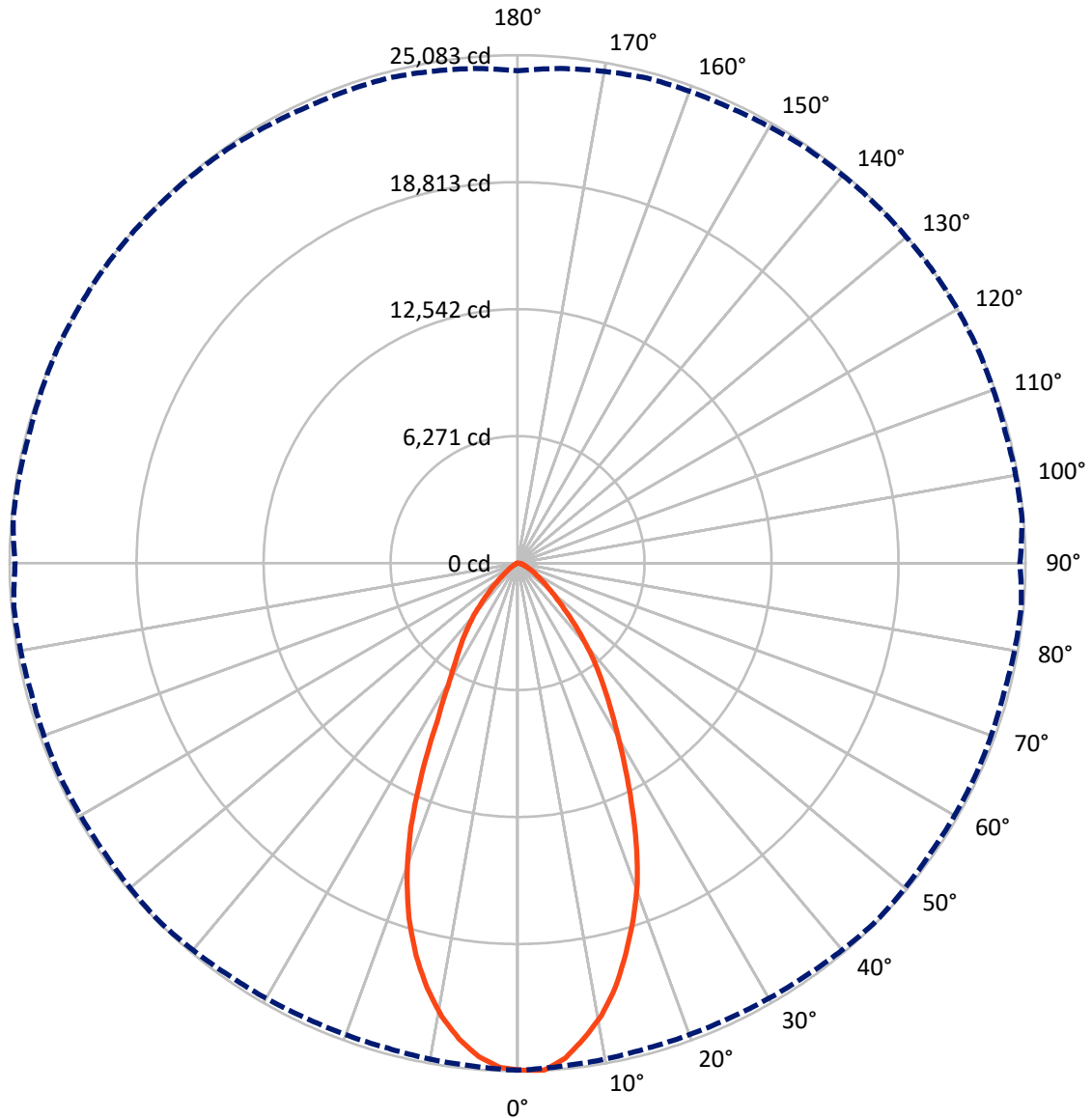
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.6 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	11894.0	0.0	11894.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9066.8	0.0	9066.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	20960.8	0.0	20960.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2274.0	10.8
10°-20°	5420.7	25.9
20°-30°	5520.9	26.3
30°-40°	4116.9	19.6
40°-50°	2150.8	10.3
50°-60°	904.6	4.3
60°-70°	369.5	1.8
70°-80°	155.5	0.7
80°-90°	47.9	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°	20960.8	100.0
0°-180°	20960.8	100.0



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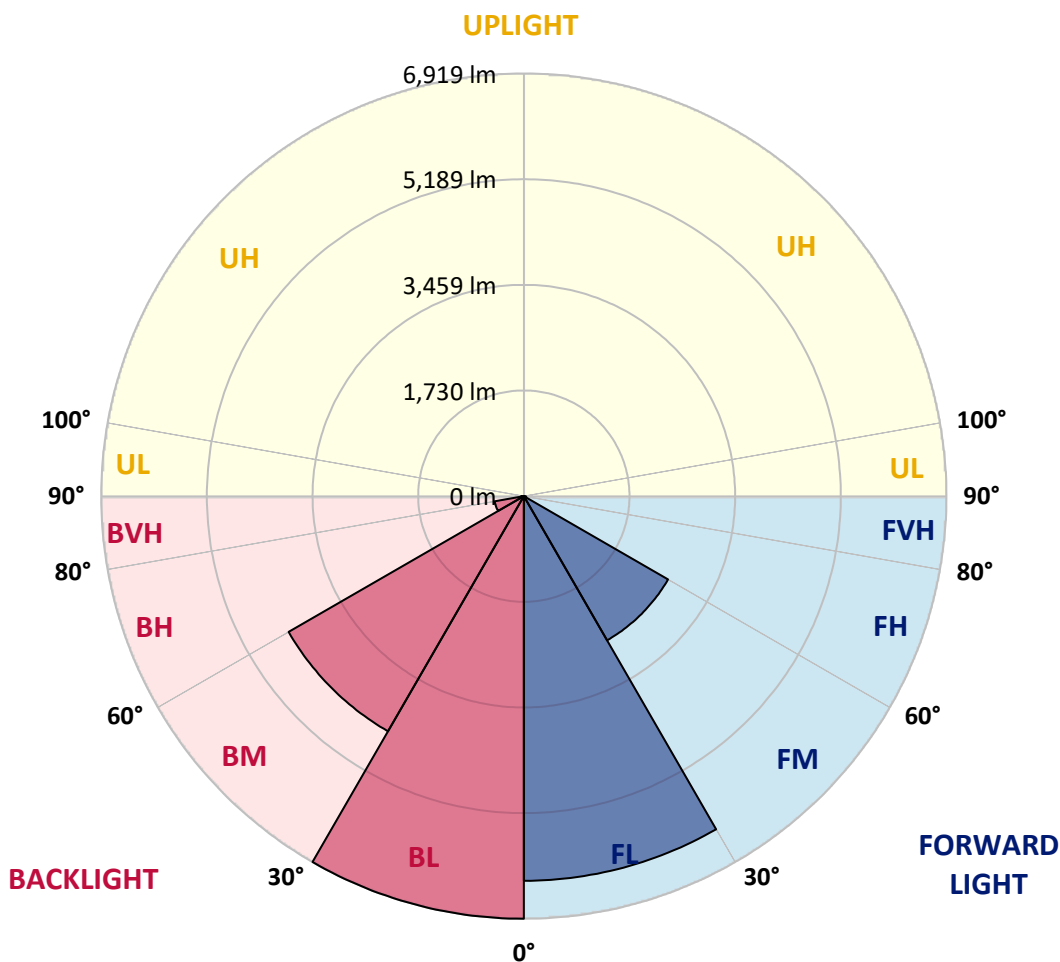
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6296.9	30.0			
FM (30°-60°)	2726.0	13.0			
FH (60°-80°)	39.5	0.2			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	6918.7	33.0	B5		
BM (30°-60°)	4446.3	21.2	B3/5000		
BH (60°-80°)	485.5	2.3	B1/500		G1/500
BVH (80°-90°)	43.5	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0
2.5°	25045.7	24943.4	24798.0	24784.5	24859.9	25024.2	24919.2	24924.5	24859.9	24970.3
5°	24652.6	24555.7	24456.1	24324.1	24434.5	24504.5	24450.7	24391.4	24308.0	24415.7
7.5°	23909.5	23855.6	23707.5	23648.3	23715.6	23793.7	23677.9	23661.8	23546.0	23686.0
10°	22773.2	22751.7	22606.3	22571.3	22630.5	22749.0	22697.8	22687.1	22614.4	22600.9
12.5°	21593.9	21510.4	21330.0	21319.3	21408.1	21585.8	21448.5	21316.6	21357.0	21392.0
15°	18556.8	18467.9	18914.9	19617.6	19986.5	19973.0	20013.4	19854.6	19806.1	19822.2
17.5°	14752.3	14601.5	14763.0	15850.8	17603.6	18621.4	18341.4	17999.4	17816.3	17695.2
20°	12732.9	12740.9	12711.3	12991.4	14084.5	16405.5	16338.1	15678.5	15438.8	15339.2
22.5°	11505.1	11459.3	11394.7	11483.5	11777.0	13139.4	14052.2	13446.4	13362.9	13252.5
25°	10301.5	10301.5	10223.5	10312.3	10395.8	10414.6	11330.1	11577.8	11416.2	11416.2
27.5°	9259.5	9205.7	9170.7	9211.1	9100.7	8570.3	8686.0	9954.2	9843.8	9776.5
30°	8225.6	8209.5	8150.2	8204.1	7794.8	7197.1	6954.7	8400.6	8516.4	8492.2
32.5°	6790.5	6855.1	7119.0	7202.5	6502.4	6020.4	5788.9	6973.6	7436.7	7417.9
35°	4615.0	4668.8	4970.4	5966.6	5390.4	5045.8	4978.4	5546.6	6308.5	6381.2
37.5°	3675.3	3667.2	3753.4	3931.1	4332.2	4248.8	4229.9	4378.0	5145.4	5177.7
40°	3029.1	3018.3	3015.6	2870.2	2770.6	3532.6	3481.4	3392.6	4057.6	4122.2
42.5°	2442.1	2452.9	2461.0	2143.2	1997.8	2724.8	2695.2	2603.7	3182.5	3257.9
45°	1917.1	1914.4	1930.5	1596.7	1556.3	1742.1	2014.0	1941.3	2401.7	2482.5
47.5°	993.5	1028.5	1246.6	1235.9	1254.7	1235.9	1524.0	1505.1	1806.7	1935.9
50°	667.7	678.5	697.4	700.1	988.2	910.1	1033.9	1171.2	1265.5	1464.7
52.5°	517.0	525.0	476.6	447.0	605.8	673.1	678.5	810.4	883.1	1085.1
55°	288.1	323.1	347.3	350.0	333.9	498.1	495.4	600.4	657.0	791.6
57.5°	37.7	45.8	70.0	226.2	223.5	277.3	347.3	436.2	468.5	578.9
60°	2.7	5.4	8.1	35.0	148.1	161.6	236.9	271.9	325.8	406.6
62.5°	0.0	0.0	2.7	8.1	29.6	94.2	123.9	142.7	191.2	266.6
65°	0.0	0.0	2.7	5.4	10.8	35.0	48.5	78.1	113.1	164.2
67.5°	0.0	0.0	2.7	5.4	8.1	13.5	21.5	35.0	59.2	99.6
70°	0.0	0.0	2.7	5.4	8.1	10.8	16.2	21.5	32.3	53.9
72.5°	0.0	0.0	2.7	2.7	5.4	13.5	13.5	16.2	21.5	29.6
75°	0.0	0.0	2.7	5.4	8.1	13.5	13.5	13.5	16.2	18.8
77.5°	0.0	0.0	2.7	5.4	8.1	13.5	10.8	13.5	13.5	13.5
80°	0.0	0.0	2.7	5.4	8.1	13.5	16.2	13.5	10.8	10.8
82.5°	0.0	0.0	2.7	8.1	8.1	18.8	18.8	18.8	8.1	8.1
85°	0.0	0.0	5.4	8.1	13.5	21.5	21.5	16.2	8.1	5.4
87.5°	0.0	0.0	2.7	5.4	5.4	10.8	16.2	13.5	5.4	2.7
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°
25043.0	0°	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0	25043.0
24808.8	2.5°	25008.0	24940.7	25067.3	25083.4	25029.6	24962.2	24806.1	24792.6	24520.7
24259.5	5°	24534.1	24423.7	24504.5	24558.4	24539.5	24466.8	24402.2	24343.0	24097.9
23368.3	7.5°	23651.0	23610.6	23648.3	23688.7	23766.8	23688.7	23661.8	23599.8	23357.5
22490.5	10°	22670.9	22595.5	22738.2	22719.4	22697.8	22676.3	22563.2	22574.0	22288.6
21295.0	12.5°	21467.4	21340.8	21478.1	21494.3	21478.1	21402.7	21276.2	21330.0	21068.9
19679.5	15°	19849.2	19835.7	19935.3	20000.0	20045.7	19964.9	19921.9	19948.8	19792.6
17600.9	17.5°	17862.1	18037.1	18362.9	18473.3	18476.0	18559.5	18535.2	18502.9	18387.1
15298.8	20°	15525.0	15861.6	16362.4	16876.6	17024.7	16954.7	16922.4	16981.6	16809.3
13136.7	22.5°	13368.3	13656.4	14238.0	14989.2	15422.7	15465.8	15457.7	15406.5	15339.2
11405.5	25°	11537.4	11793.2	12350.5	13037.1	13869.1	13993.0	13998.3	13982.2	13923.0
9835.7	27.5°	9991.9	10301.5	10608.5	11222.4	12108.2	12619.8	12555.2	12536.3	12514.8
8511.0	30°	8591.8	8982.2	9270.3	9652.6	10446.9	11138.9	11206.2	11173.9	11122.8
7415.2	32.5°	7482.5	7714.0	8080.2	8338.7	8909.5	9693.0	9951.5	9927.3	9881.5
6427.0	35°	6518.6	6610.1	6898.2	7186.3	7565.9	8325.2	8707.6	8653.7	8645.6
5236.9	37.5°	5368.9	5675.8	5834.7	6125.5	6392.0	6981.7	7509.4	7485.2	7487.9
4211.1	40°	4334.9	4512.6	4827.7	5072.7	5317.7	5748.5	6335.5	6351.6	6346.2
3260.6	42.5°	3327.9	3500.3	3831.4	4098.0	4316.1	4582.6	5142.7	5161.5	5185.8
2539.0	45°	2598.3	2708.7	2951.0	3228.3	3459.9	3621.4	4046.8	4168.0	4170.7
1968.2	47.5°	2016.7	2143.2	2315.6	2582.1	2808.3	2924.1	3233.7	3397.9	3389.9
1510.5	50°	1583.2	1699.0	1839.0	2049.0	2294.0	2385.6	2614.4	2776.0	2767.9
1138.9	52.5°	1211.6	1359.7	1483.6	1645.1	1884.8	1962.8	2127.1	2312.9	2285.9
834.7	55°	918.1	1068.9	1184.7	1319.3	1537.4	1637.0	1750.1	1898.2	1903.6
646.2	57.5°	692.0	848.1	953.1	1090.5	1254.7	1365.1	1451.3	1610.1	1607.4
441.6	60°	495.4	630.0	756.6	899.3	1025.8	1152.4	1211.6	1362.4	1367.8
312.3	62.5°	358.1	484.7	605.8	729.7	842.8	966.6	1020.5	1138.9	1155.1
204.6	65°	250.4	339.3	479.3	573.5	700.1	791.6	861.6	963.9	982.8
121.2	67.5°	161.6	245.0	379.6	463.1	578.9	657.0	729.7	810.4	834.7
78.1	70°	96.9	185.8	282.7	371.6	476.6	546.6	616.6	686.6	700.1
37.7	72.5°	61.9	129.2	204.6	301.6	382.3	457.7	519.7	570.8	530.4
24.2	75°	35.0	88.9	161.6	236.9	309.6	382.3	433.5	460.4	368.9
16.2	77.5°	21.5	64.6	131.9	191.2	239.6	306.9	339.3	355.4	263.9
10.8	80°	13.5	48.5	110.4	156.2	156.2	226.2	263.9	277.3	191.2
8.1	82.5°	10.8	35.0	86.2	118.5	105.0	169.6	207.3	210.0	134.6
5.4	85°	8.1	26.9	53.9	78.1	72.7	118.5	121.2	134.6	88.9
5.4	87.5°	5.4	16.2	32.3	45.8	40.4	56.5	64.6	72.7	48.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25043.0
24308.0
23901.4
23306.4
22191.7
20993.5
19604.2
18214.8
16685.5
15210.0
13723.7
12388.2
11058.1
9760.3
8556.8
7401.7
6252.0
5105.0
4100.7
3360.3
2767.9
2288.6
1903.6
1602.0
1354.3
1149.7
977.4
832.0
689.3
492.7
350.0
247.7
177.7
123.9
80.8
43.1
0.0

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