

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: P637797

Luminaire Tested: **IFLD-M-SA4B-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14185.8 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

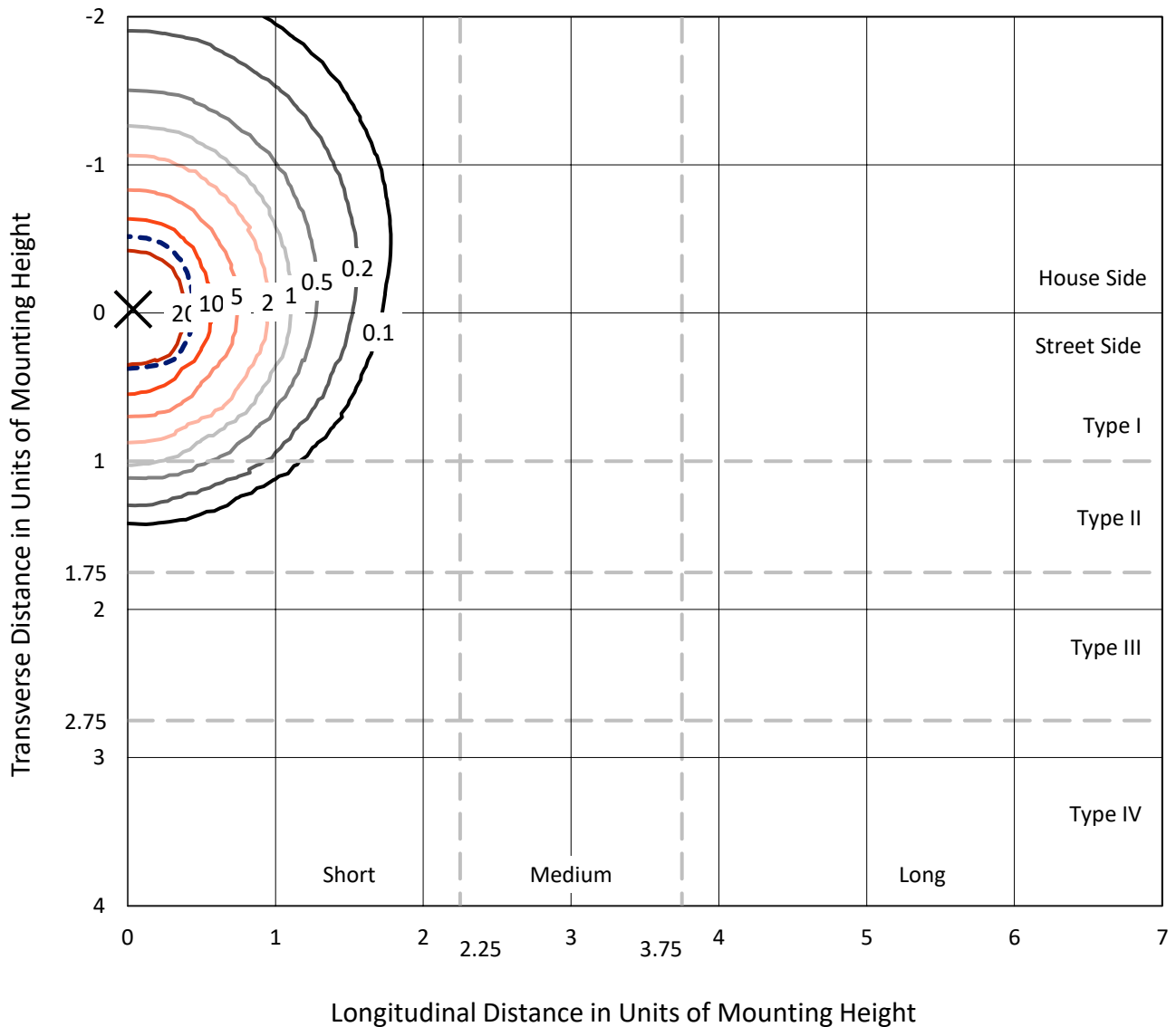
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

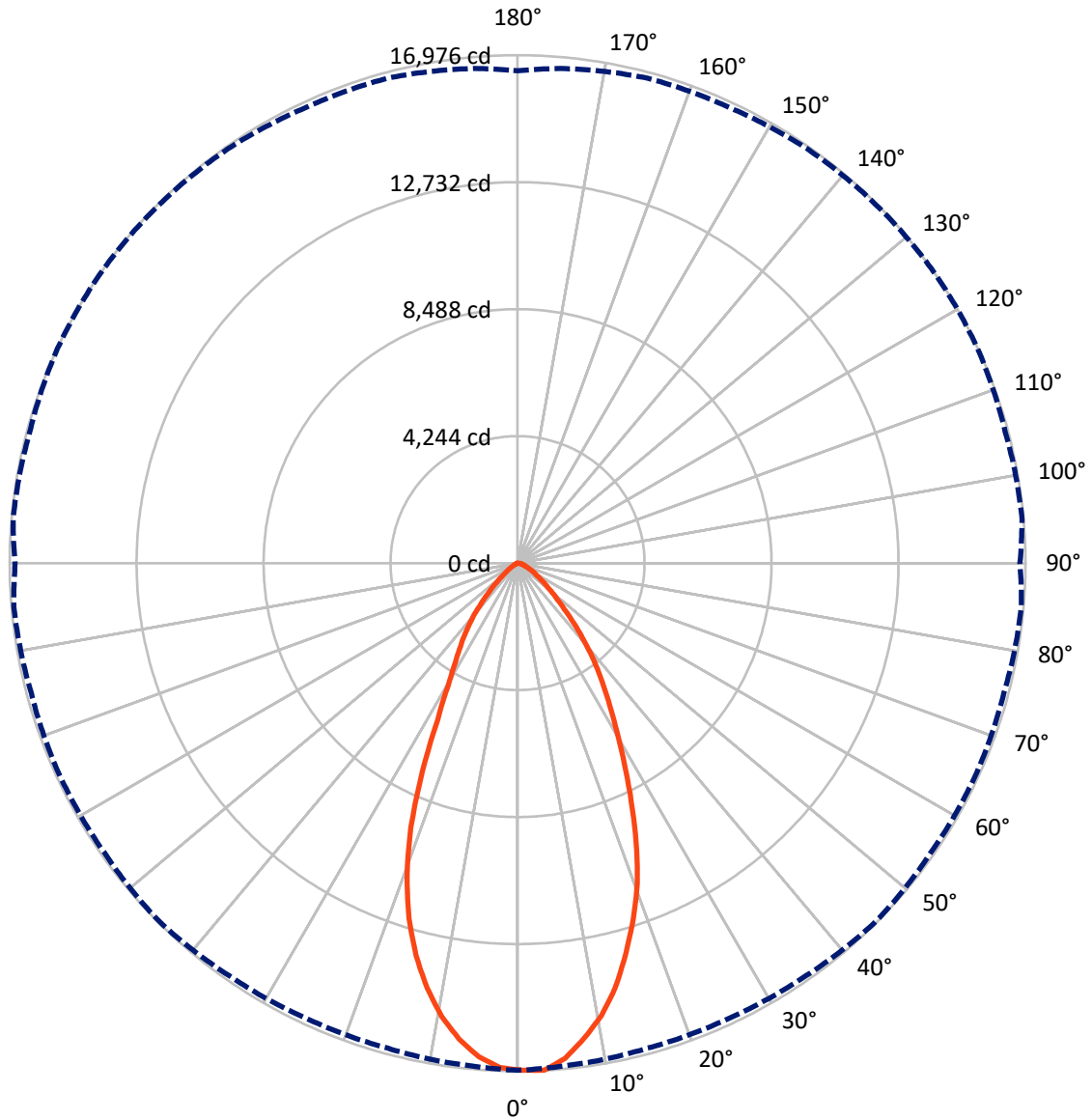
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.4 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	8049.6	0.0	8049.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6136.2	0.0	6136.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	14185.8	0.0	14185.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.0	10.8
10°-20°	3668.6	25.9
20°-30°	3736.4	26.3
30°-40°	2786.2	19.6
40°-50°	1455.6	10.3
50°-60°	612.2	4.3
60°-70°	250.0	1.8
70°-80°	105.2	0.7
80°-90°	32.4	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°	14185.8	100.0
0°-180°	14185.8	100.0



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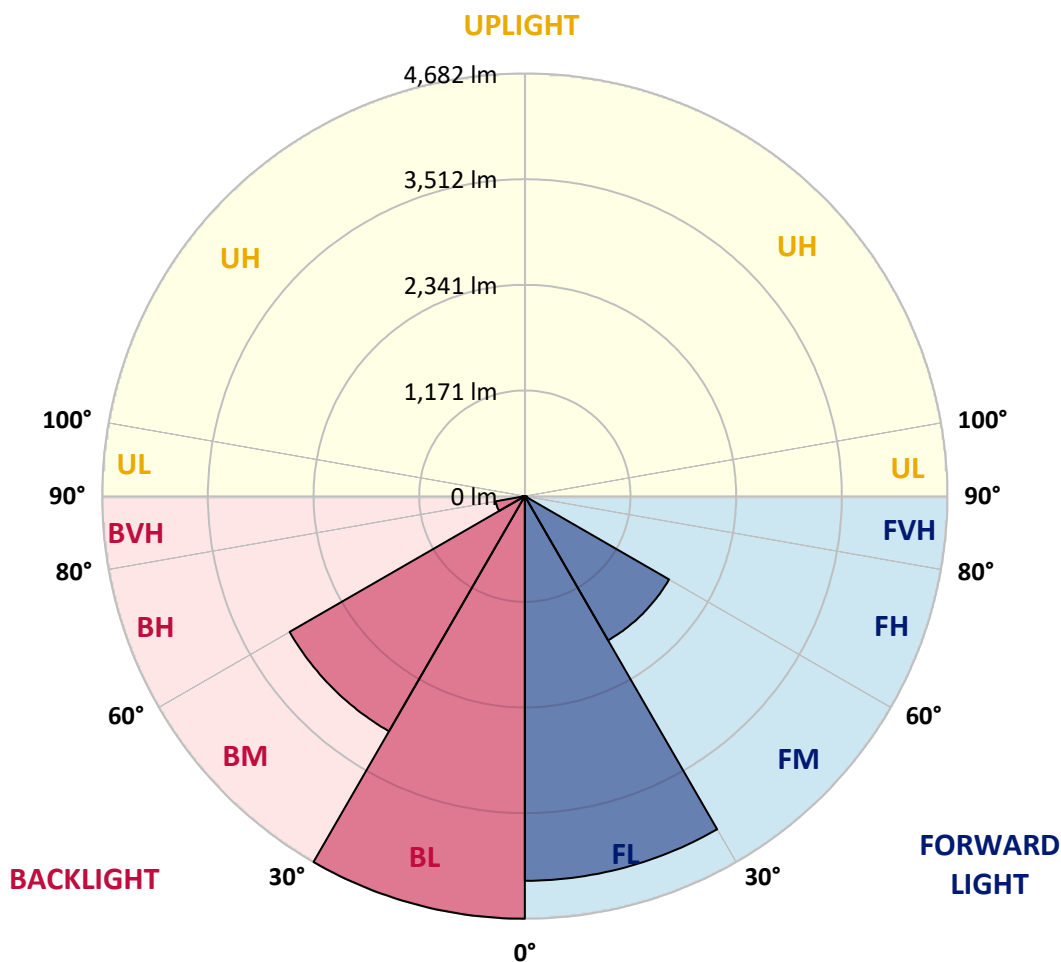
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4261.6	30.0			
FM (30°-60°)	1844.9	13.0			
FH (60°-80°)	26.7	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4682.5	33.0	B4/5000		
BM (30°-60°)	3009.2	21.2	B3/5000		
BH (60°-80°)	328.6	2.3	B1/500		G1/500
BVH (80°-90°)	29.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6
2.5°	16950.4	16881.2	16782.8	16773.7	16824.7	16935.9	16864.8	16868.4	16824.7	16899.4
5°	16684.4	16618.8	16551.4	16462.1	16536.8	16584.2	16547.7	16507.6	16451.1	16524.0
7.5°	16181.4	16145.0	16044.8	16004.7	16050.2	16103.1	16024.7	16013.8	15935.4	16030.2
10°	15412.5	15397.9	15299.5	15275.8	15315.9	15396.1	15361.4	15354.2	15305.0	15295.8
12.5°	14614.3	14557.8	14435.7	14428.5	14488.6	14608.9	14515.9	14426.6	14454.0	14477.7
15°	12558.8	12498.7	12801.2	13276.8	13526.5	13517.3	13544.7	13437.2	13404.4	13415.3
17.5°	9984.0	9882.0	9991.3	10727.5	11913.8	12602.6	12413.1	12181.6	12057.7	11975.7
20°	8617.4	8622.8	8602.8	8792.3	9532.1	11102.9	11057.3	10610.9	10448.7	10381.3
22.5°	7786.4	7755.4	7711.7	7771.8	7970.5	8892.5	9510.2	9100.2	9043.8	8969.0
25°	6971.9	6971.9	6919.0	6979.2	7035.7	7048.4	7668.0	7835.6	7726.3	7726.3
27.5°	6266.7	6230.2	6206.5	6233.9	6159.2	5800.2	5878.5	6736.8	6662.1	6616.5
30°	5566.9	5556.0	5515.9	5552.4	5275.4	4870.8	4706.8	5685.4	5763.7	5747.3
32.5°	4595.7	4639.4	4818.0	4874.5	4400.7	4074.5	3917.8	4719.6	5033.0	5020.3
35°	3123.3	3159.8	3363.8	4038.1	3648.1	3414.9	3369.3	3753.8	4269.5	4318.7
37.5°	2487.4	2481.9	2540.2	2660.5	2932.0	2875.5	2862.7	2963.0	3482.3	3504.2
40°	2050.0	2042.7	2040.9	1942.5	1875.1	2390.8	2356.2	2296.0	2746.1	2789.8
42.5°	1652.8	1660.1	1665.5	1450.5	1352.1	1844.1	1824.1	1762.1	2153.9	2204.9
45°	1297.4	1295.6	1306.5	1080.6	1053.3	1179.0	1363.0	1313.8	1625.4	1680.1
47.5°	672.4	696.1	843.7	836.4	849.2	836.4	1031.4	1018.6	1222.7	1310.2
50°	451.9	459.2	472.0	473.8	668.8	615.9	699.7	792.7	856.5	991.3
52.5°	349.9	355.3	322.5	302.5	410.0	455.6	459.2	548.5	597.7	734.4
55°	195.0	218.7	235.1	236.9	226.0	337.1	335.3	406.4	444.6	535.7
57.5°	25.5	31.0	47.4	153.1	151.2	187.7	235.1	295.2	317.1	391.8
60°	1.8	3.6	5.5	23.7	100.2	109.3	160.4	184.0	220.5	275.2
62.5°	0.0	0.0	1.8	5.5	20.0	63.8	83.8	96.6	129.4	180.4
65°	0.0	0.0	1.8	3.6	7.3	23.7	32.8	52.8	76.5	111.2
67.5°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	23.7	40.1	67.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	21.9	36.4
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	9.1	10.9	14.6	20.0
75°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	9.1	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	5.5	9.1	7.3	9.1	9.1	9.1
80°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	9.1	7.3	7.3
82.5°	0.0	0.0	1.8	5.5	5.5	12.8	12.8	12.8	5.5	5.5
85°	0.0	0.0	3.6	5.5	9.1	14.6	14.6	10.9	5.5	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.3	10.9	9.1	3.6	1.8
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°
16948.6	0°	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6	16948.6
16790.1	2.5°	16924.9	16879.4	16965.0	16975.9	16939.5	16893.9	16788.3	16779.1	16595.1
16418.3	5°	16604.2	16529.5	16584.2	16620.6	16607.9	16558.7	16514.9	16474.8	16309.0
15815.2	7.5°	16006.5	15979.2	16004.7	16032.0	16084.9	16032.0	16013.8	15971.9	15807.9
15221.1	10°	15343.2	15292.2	15388.8	15376.0	15361.4	15346.9	15270.3	15277.6	15084.5
14412.1	12.5°	14528.7	14443.0	14536.0	14546.9	14536.0	14484.9	14399.3	14435.7	14259.0
13318.7	15°	13433.5	13424.4	13491.8	13535.6	13566.5	13511.9	13482.7	13500.9	13395.3
11912.0	17.5°	12088.7	12207.2	12427.6	12502.4	12504.2	12560.7	12544.3	12522.4	12444.0
10353.9	20°	10507.0	10734.8	11073.7	11421.8	11522.0	11474.6	11452.7	11492.8	11376.2
8890.7	22.5°	9047.4	9242.4	9636.0	10144.4	10437.8	10466.9	10461.5	10426.8	10381.3
7719.0	25°	7808.3	7981.4	8358.6	8823.3	9386.3	9470.2	9473.8	9462.9	9422.8
6656.6	27.5°	6762.3	6971.9	7179.6	7595.1	8194.6	8540.8	8497.1	8484.3	8469.7
5760.1	30°	5814.8	6079.0	6274.0	6532.7	7070.3	7538.6	7584.1	7562.3	7527.7
5018.4	32.5°	5064.0	5220.7	5468.5	5643.5	6029.8	6560.0	6735.0	6718.6	6687.6
4349.7	35°	4411.6	4473.6	4668.6	4863.5	5120.5	5634.4	5893.1	5856.7	5851.2
3544.2	37.5°	3633.5	3841.3	3948.8	4145.6	4326.0	4725.1	5082.2	5065.8	5067.6
2850.0	40°	2933.8	3054.1	3267.3	3433.1	3598.9	3890.5	4287.7	4298.7	4295.0
2206.7	42.5°	2252.3	2368.9	2593.0	2773.4	2921.0	3101.4	3480.5	3493.2	3509.6
1718.4	45°	1758.5	1833.2	1997.2	2184.9	2341.6	2450.9	2738.8	2820.8	2822.6
1332.1	47.5°	1364.9	1450.5	1567.1	1747.5	1900.6	1978.9	2188.5	2299.7	2294.2
1022.3	50°	1071.5	1149.8	1244.6	1386.7	1552.5	1614.5	1769.4	1878.7	1873.3
770.8	52.5°	820.0	920.2	1004.1	1113.4	1275.6	1328.4	1439.6	1565.3	1547.1
564.9	55°	621.4	723.4	801.8	892.9	1040.5	1107.9	1184.5	1284.7	1288.3
437.3	57.5°	468.3	574.0	645.1	738.0	849.2	923.9	982.2	1089.7	1087.9
298.8	60°	335.3	426.4	512.0	608.6	694.3	779.9	820.0	922.1	925.7
211.4	62.5°	242.4	328.0	410.0	493.8	570.4	654.2	690.6	770.8	781.7
138.5	65°	169.5	229.6	324.4	388.1	473.8	535.7	583.1	652.4	665.1
82.0	67.5°	109.3	165.8	256.9	313.4	391.8	444.6	493.8	548.5	564.9
52.8	70°	65.6	125.7	191.3	251.5	322.5	369.9	417.3	464.7	473.8
25.5	72.5°	41.9	87.5	138.5	204.1	258.8	309.8	351.7	386.3	359.0
16.4	75°	23.7	60.1	109.3	160.4	209.6	258.8	293.4	311.6	249.6
10.9	77.5°	14.6	43.7	89.3	129.4	162.2	207.7	229.6	240.5	178.6
7.3	80°	9.1	32.8	74.7	105.7	105.7	153.1	178.6	187.7	129.4
5.5	82.5°	7.3	23.7	58.3	80.2	71.1	114.8	140.3	142.1	91.1
3.6	85°	5.5	18.2	36.4	52.8	49.2	80.2	82.0	91.1	60.1
3.6	87.5°	3.6	10.9	21.9	31.0	27.3	38.3	43.7	49.2	32.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16948.6
<i>16451.1</i>
16176.0
15773.3
15018.9
14208.0
13267.7
12327.4
11292.4
10293.8
9287.9
8384.1
7483.9
6605.6
5791.1
5009.3
4231.2
3455.0
2775.3
2274.1
1873.3
1548.9
1288.3
1084.2
916.6
778.1
661.5
563.1
466.5
333.5
236.9
167.6
120.3
83.8
54.7
29.2
0.0

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