

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: P636750

Luminaire Tested: **IFLD-S-SA6D-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636750
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22507.8 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

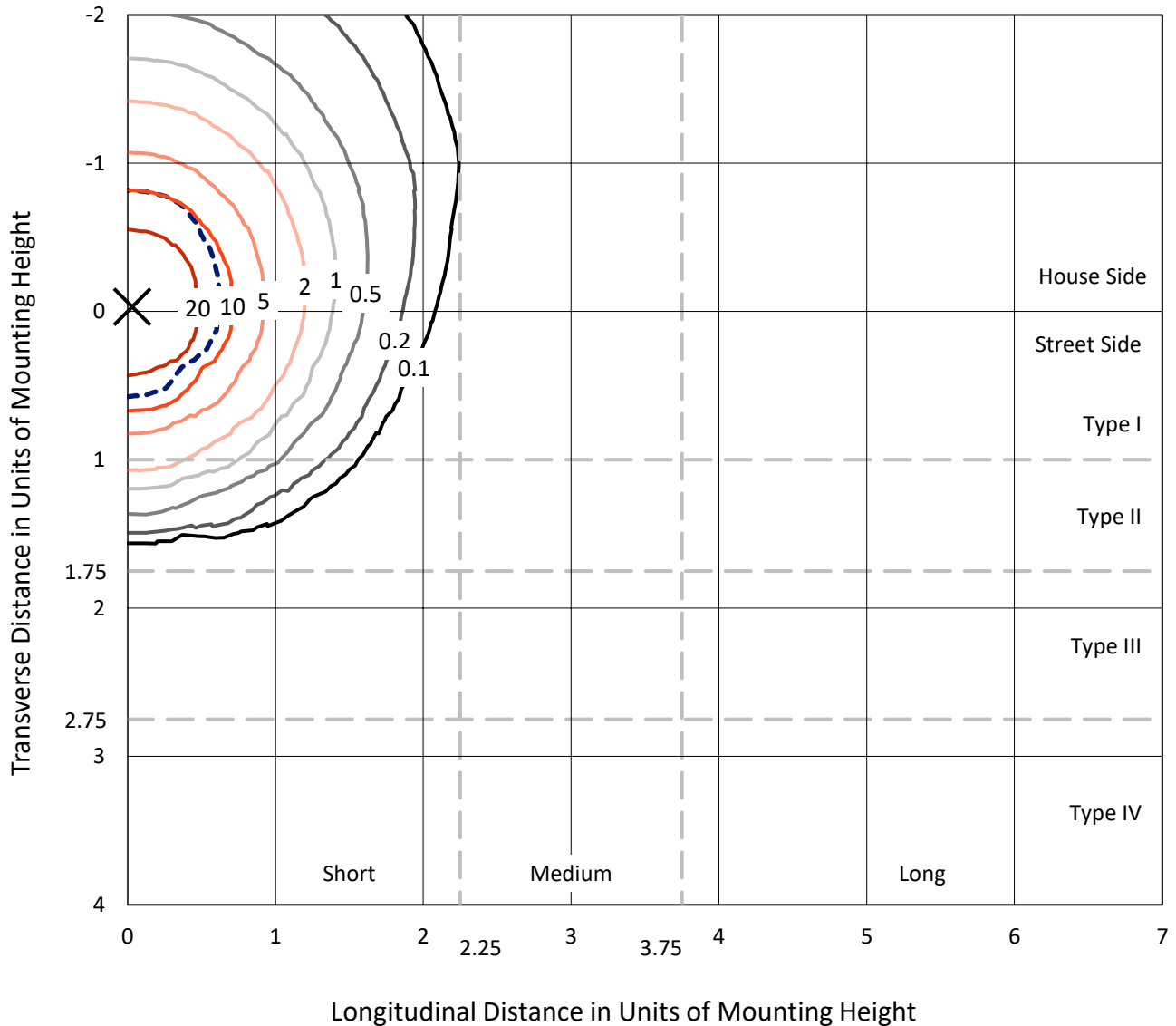
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

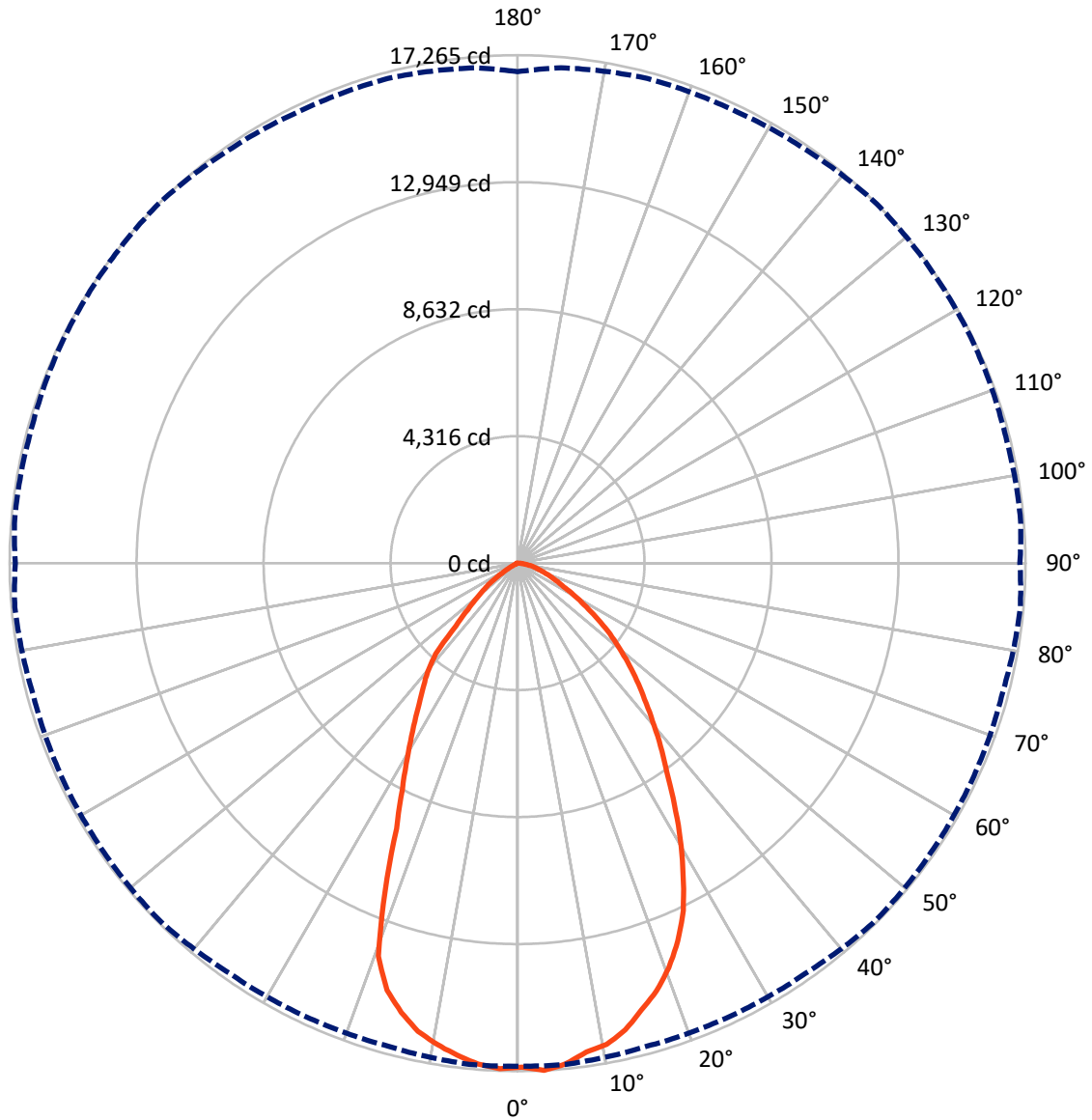
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.8 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	13330.3	0.0	13330.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9177.6	0.0	9177.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	22507.8	0.0	22507.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1606.4	7.1
10°-20°	4307.6	19.1
20°-30°	5253.3	23.3
30°-40°	4796.2	21.3
40°-50°	3466.1	15.4
50°-60°	1892.5	8.4
60°-70°	782.5	3.5
70°-80°	316.9	1.4
80°-90°	86.2	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°	22507.8	100.0
0°-180°	22507.8	100.0



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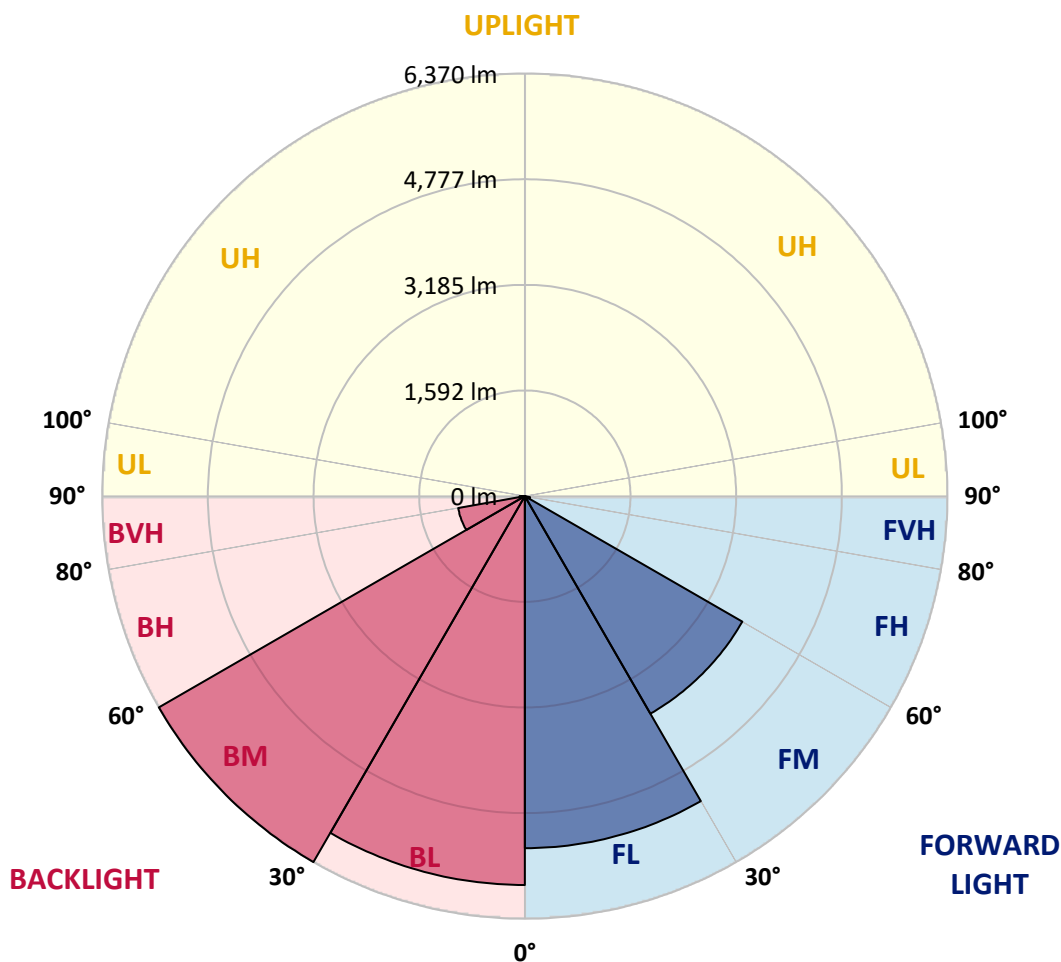
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5305.9	23.6			
FM (30°-60°)	3785.4	16.8			
FH (60°-80°)	79.3	0.4			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	5861.4	26.0	B5		
BM (30°-60°)	6369.5	28.3	B4/8500		
BH (60°-80°)	1020.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	79.3	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4
2.5°	17096.7	17118.9	16998.5	17011.1	17033.3	17195.0	17153.8	17115.7	17061.8	17153.8
5°	17074.5	17087.2	16960.4	16916.0	16935.1	17080.9	16947.7	16947.7	16935.1	16919.2
7.5°	16903.4	16909.7	16811.4	16732.2	16782.9	16849.5	16751.2	16798.8	16729.0	16782.9
10°	16646.6	16605.4	16488.2	16466.0	16523.0	16586.4	16519.8	16564.2	16500.8	16542.0
12.5°	16269.5	16206.1	16111.0	16082.4	16180.7	16266.3	16212.4	16187.0	16104.6	16206.1
15°	14814.6	14767.1	14982.6	15359.8	15698.9	15771.8	15714.8	15740.1	15569.0	15597.5
17.5°	12193.4	12104.6	12336.0	13229.8	14504.0	15175.9	15125.2	14960.4	14706.8	14763.9
20°	11080.8	11055.5	11030.1	11242.5	12133.1	14171.2	14240.9	13822.5	13461.2	13382.0
22.5°	10453.3	10443.8	10418.4	10466.0	10700.5	12009.5	12808.3	12421.6	12180.7	12158.5
25°	9879.6	9863.7	9787.7	9847.9	9847.9	9924.0	10947.7	11182.3	10969.9	10944.6
27.5°	9296.4	9267.8	9255.2	9283.7	9137.9	8624.4	8884.3	10028.5	9917.6	9924.0
30°	8665.6	8656.1	8621.3	8681.5	8231.4	7594.3	7429.5	8982.6	9004.8	8998.4
32.5°	7727.4	7768.6	7927.1	7993.7	7252.0	6725.8	6450.1	7771.8	8225.1	8215.5
35°	5613.3	5613.3	6130.0	7090.3	6355.0	5958.8	5809.8	6589.6	7454.9	7486.5
37.5°	4614.9	4630.8	4732.2	5169.6	5483.4	5343.9	5299.5	5546.8	6465.9	6516.7
40°	4152.1	4152.1	4152.1	3971.5	3962.0	4814.6	4789.2	4710.0	5584.8	5695.7
42.5°	3730.6	3740.1	3746.4	3290.0	3036.5	4161.7	4104.6	3984.2	4795.6	4925.5
45°	3296.4	3312.2	3331.2	2751.2	2640.3	2995.3	3473.9	3340.7	4015.9	4183.8
47.5°	2012.7	2038.0	2469.1	2332.8	2345.5	2310.6	2833.6	2811.4	3293.2	3530.9
50°	1359.7	1369.3	1410.5	1480.2	2012.7	1816.2	2006.3	2326.5	2500.8	2862.1
52.5°	1141.0	1156.9	1055.5	960.4	1321.7	1420.0	1401.0	1727.4	1797.2	2244.1
55°	801.9	852.6	805.1	795.6	751.2	1103.0	1061.8	1328.1	1372.4	1705.2
57.5°	82.4	95.1	164.8	592.7	491.3	624.4	757.5	973.1	1017.4	1258.3
60°	6.3	6.3	15.8	82.4	358.2	374.0	523.0	599.1	684.6	878.0
62.5°	0.0	3.2	6.3	12.7	57.1	199.7	263.1	313.8	412.0	567.4
65°	0.0	0.0	3.2	9.5	12.7	76.1	101.4	164.8	225.0	351.8
67.5°	0.0	0.0	3.2	6.3	9.5	19.0	34.9	60.2	120.4	199.7
70°	0.0	0.0	3.2	6.3	9.5	15.8	25.4	38.0	53.9	107.8
72.5°	0.0	0.0	3.2	3.2	6.3	15.8	19.0	25.4	38.0	53.9
75°	0.0	0.0	3.2	3.2	9.5	19.0	15.8	19.0	25.4	34.9
77.5°	0.0	0.0	3.2	6.3	9.5	19.0	15.8	19.0	19.0	22.2
80°	0.0	0.0	3.2	6.3	12.7	22.2	19.0	19.0	15.8	15.8
82.5°	0.0	0.0	3.2	9.5	12.7	28.5	28.5	25.4	12.7	9.5
85°	0.0	0.0	6.3	12.7	19.0	31.7	31.7	25.4	9.5	6.3
87.5°	0.0	0.0	6.3	9.5	15.8	22.2	31.7	25.4	9.5	3.2
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°
17128.4	0°	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4	17128.4
17074.5	2.5°	17160.1	17141.1	17204.5	17229.8	17264.7	17131.6	17049.2	17052.3	16900.2
16881.2	5°	16982.6	16985.8	17068.2	17061.8	17096.7	17023.8	16992.1	16938.2	16805.1
16637.1	7.5°	16757.6	16729.0	16808.3	16868.5	16779.8	16830.5	16757.6	16782.9	16703.7
16421.6	10°	16583.2	16516.7	16589.6	16630.8	16634.0	16583.2	16513.5	16446.9	16418.4
16085.6	12.5°	16196.5	16111.0	16234.6	16291.6	16282.1	16183.9	16104.6	16120.5	16028.6
15496.1	15°	15664.1	15667.2	15756.0	15809.9	15759.1	15737.0	15743.3	15705.3	15626.0
14681.5	17.5°	14849.5	14897.0	15131.6	15261.5	15290.1	15245.7	15223.5	15179.1	15099.9
13382.0	20°	13492.9	13778.2	14196.5	14599.1	14678.3	14665.6	14586.4	14567.4	14523.0
12095.1	22.5°	12301.1	12513.5	12998.4	13626.0	13949.3	13981.0	13885.9	13857.4	13809.9
10944.6	25°	11068.2	11296.4	11733.8	12415.2	13084.0	13220.3	13204.5	13118.9	13068.2
9924.0	27.5°	10028.5	10256.8	10653.0	11267.9	11984.2	12421.6	12462.8	12326.5	12323.3
9014.3	30°	9090.4	9404.1	9705.3	10206.0	10900.2	11556.3	11626.0	11530.9	11540.4
8180.7	32.5°	8355.0	8614.9	8871.7	9207.6	9784.5	10548.4	10820.9	10732.2	10697.3
7486.5	35°	7603.8	7781.3	8044.4	8351.8	8744.9	9502.4	9974.7	9908.1	9873.2
6548.4	37.5°	6748.0	7052.3	7242.5	7588.0	7895.4	8497.6	9163.3	9153.7	9080.8
5749.6	40°	5870.1	6190.2	6478.6	6827.3	7065.0	7543.6	8282.1	8278.9	8288.4
4922.4	42.5°	5074.5	5369.3	5717.9	6098.3	6326.5	6675.1	7467.5	7511.9	7565.8
4240.9	45°	4355.0	4621.2	4944.5	5407.3	5683.1	5882.7	6586.4	6789.2	6786.1
3632.3	47.5°	3708.4	3958.8	4231.4	4681.5	5033.3	5214.0	5797.2	6085.6	6066.6
2979.4	50°	3112.5	3334.4	3619.7	3946.1	4418.4	4576.9	5011.1	5391.5	5362.9
2374.0	52.5°	2504.0	2811.4	3052.3	3350.2	3847.9	4003.2	4339.2	4710.0	4687.8
1781.3	55°	1952.5	2250.4	2542.0	2798.7	3217.1	3448.5	3689.4	4069.7	4063.4
1394.6	57.5°	1477.0	1803.5	2079.2	2323.3	2656.1	2941.4	3134.7	3480.2	3524.6
954.0	60°	1093.5	1343.9	1641.8	1914.4	2177.5	2472.3	2602.2	2941.4	2960.4
652.9	62.5°	744.9	1020.6	1312.2	1559.4	1755.9	2060.2	2177.5	2456.4	2491.3
418.4	65°	516.6	694.1	1026.9	1204.4	1445.3	1705.2	1822.5	2044.4	2114.1
240.9	67.5°	342.3	494.5	801.9	963.6	1201.3	1378.8	1527.7	1708.4	1784.5
152.1	70°	187.0	364.5	573.7	760.7	966.7	1137.9	1283.7	1429.5	1496.0
69.7	72.5°	126.8	244.1	399.4	602.2	779.7	947.7	1077.7	1185.4	1188.6
41.2	75°	63.4	164.8	304.3	465.9	608.6	773.4	890.7	954.0	878.0
25.4	77.5°	38.0	120.4	247.2	374.0	494.5	624.4	691.0	725.8	602.2
19.0	80°	22.2	85.6	193.3	297.9	342.3	459.6	523.0	532.5	402.5
12.7	82.5°	15.8	63.4	152.1	218.7	209.2	323.3	393.0	380.3	256.7
9.5	85°	9.5	44.4	95.1	136.3	126.8	212.4	228.2	234.5	149.0
6.3	87.5°	6.3	25.4	50.7	72.9	60.2	91.9	91.9	110.9	72.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

17128.4
16703.7
16773.4
16570.6
16291.6
15949.3
15546.8
15065.0
14421.6
13797.2
13014.3
12317.0
11492.9
10700.5
9825.7
9141.1
8288.4
7537.3
6792.4
6072.9
5388.3
4735.4
4079.2
3505.6
2988.9
2497.6
2098.3
1775.0
1470.7
1160.1
820.9
580.0
377.2
237.7
136.3
63.4
0.0

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