

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: P637292

Luminaire Tested: **IFLD-S-SA2E-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637292
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14598.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

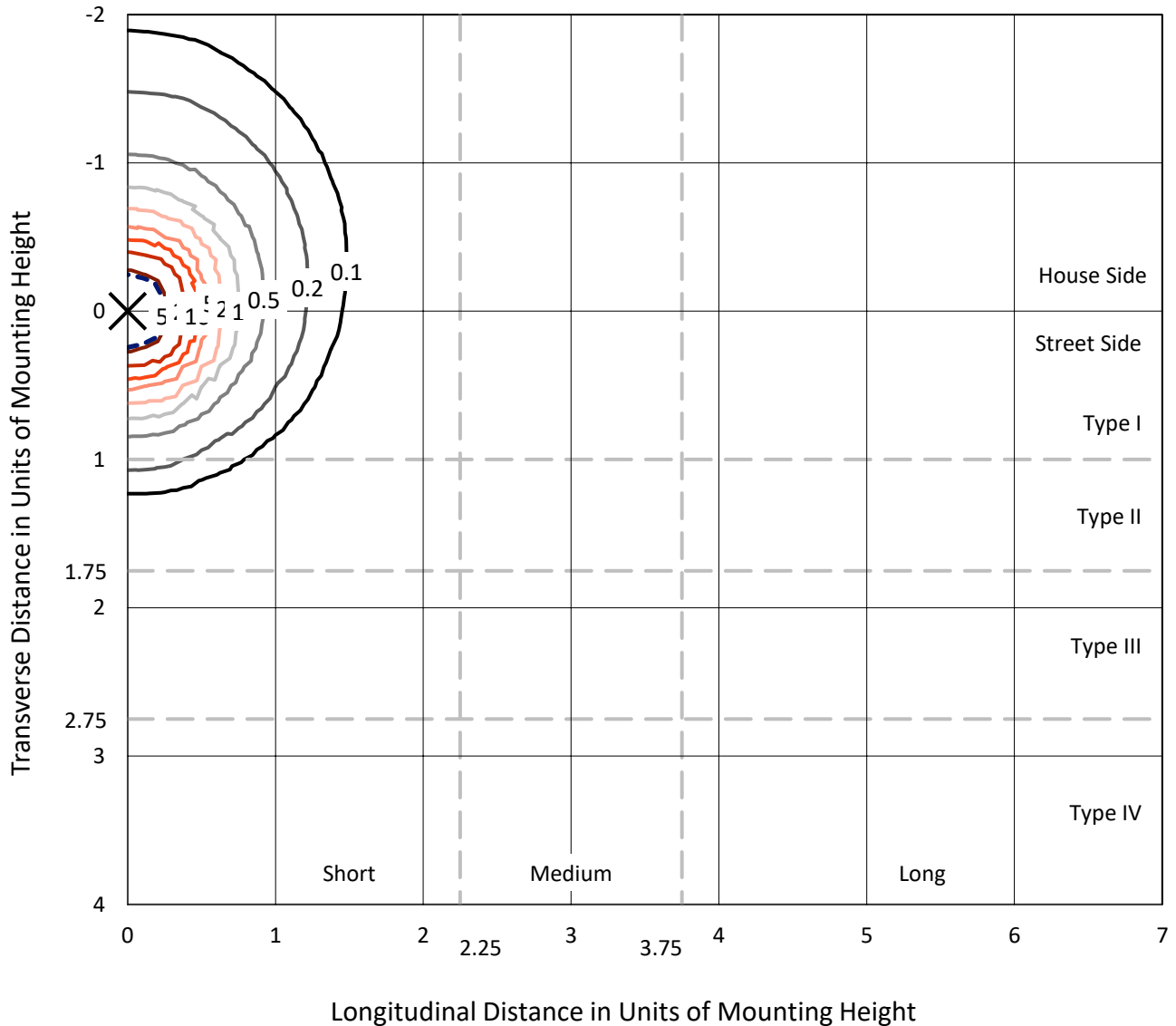
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

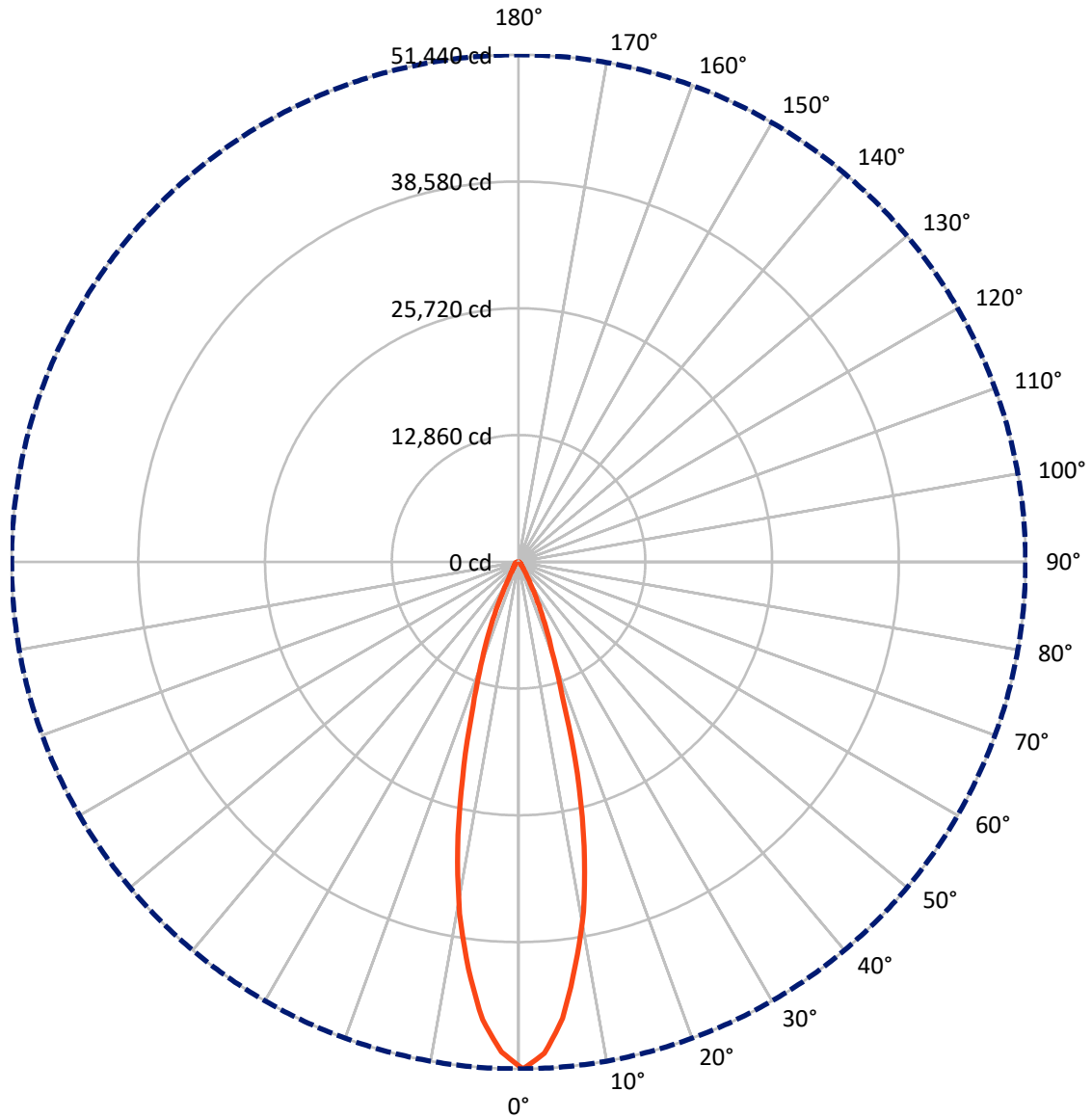
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 128.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7697.5	0.0	7697.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6901.4	0.0	6901.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	14598.9	0.0	14598.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4151.7	28.4
10°-20°	6287.7	43.1
20°-30°	2653.4	18.2
30°-40°	692.0	4.7
40°-50°	350.0	2.4
50°-60°	228.8	1.6
60°-70°	137.1	0.9
70°-80°	72.1	0.5
80°-90°	26.0	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°	14598.9	100.0
0°-180°	14598.9	100.0

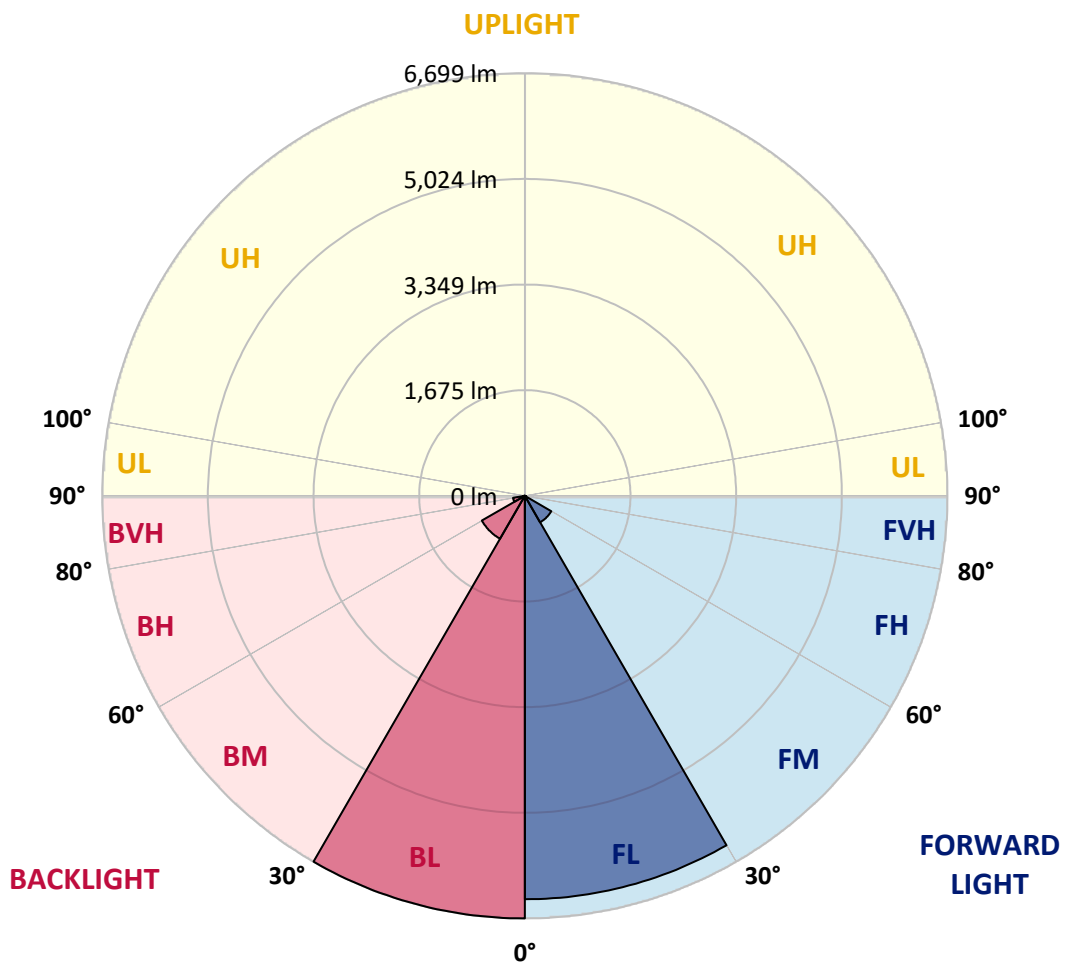


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6394.2	43.8			
FM (30°-60°)	484.2	3.3			
FH (60°-80°)	19.7	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	6698.6	45.9	B5		
BM (30°-60°)	786.6	5.4	B1/1000		
BH (60°-80°)	189.5	1.3	B1/500		G0/660
BVH (80°-90°)	22.9	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2
2.5°	49941.7	49969.6	49866.3	50089.3	49915.5	50381.1	50149.9	50510.6	50389.3	50591.0
5°	46531.6	46485.7	46456.2	46802.1	46702.1	47202.2	46882.5	46777.5	47102.1	47043.1
7.5°	41382.0	41503.3	41434.5	41524.6	41575.5	42146.0	42326.4	42185.4	42190.3	42272.3
10°	36102.9	35924.2	35670.1	35838.9	36196.4	36445.6	36345.5	36552.1	36506.2	36701.3
12.5°	29607.3	29748.3	29605.7	29454.8	30079.5	30010.6	30184.4	30297.5	30013.9	30645.1
15°	22301.8	22375.6	22549.4	22537.9	23018.2	23115.0	23092.0	23211.7	22990.4	23095.3
17.5°	14327.4	14576.6	15043.8	15834.1	16722.7	16825.9	16799.7	16701.3	16594.8	16476.7
20°	9623.7	9597.5	9766.4	9997.5	11837.0	12323.9	12309.2	12001.0	11555.0	11469.8
22.5°	6741.5	6790.7	6767.8	6997.3	7377.6	8720.4	8554.8	8241.6	8095.7	8000.6
25°	4434.8	4416.7	4531.5	4600.4	4926.6	5090.6	5670.9	5554.5	5329.9	5354.5
27.5°	2703.5	2726.4	2769.1	2828.1	3059.3	3006.8	3338.0	3382.2	3310.1	3233.0
30°	1659.1	1675.5	1710.0	1752.6	1832.9	1775.6	1867.4	2026.4	2000.2	1946.1
32.5°	1126.3	1128.0	1152.6	1168.9	1159.1	1105.0	1134.5	1285.3	1288.6	1283.7
35°	809.9	809.9	832.9	846.0	818.1	773.8	778.8	872.2	913.2	921.4
37.5°	559.1	560.7	600.0	639.4	608.2	596.8	577.1	639.4	705.0	714.8
40°	424.6	423.0	442.7	472.2	475.4	454.1	460.7	500.0	567.3	575.5
42.5°	344.3	345.9	355.8	352.5	354.1	382.0	391.8	409.9	472.2	486.9
45°	290.2	291.8	296.7	280.4	273.8	316.4	329.5	339.4	391.8	409.9
47.5°	239.4	242.6	247.6	229.5	226.2	254.1	277.1	286.9	332.8	352.5
50°	172.1	175.4	193.5	183.6	193.5	200.0	231.2	245.9	277.1	303.3
52.5°	124.6	127.9	132.8	134.4	159.0	162.3	185.3	208.2	223.0	252.5
55°	98.4	101.6	98.4	95.1	116.4	134.4	142.6	167.2	178.7	213.1
57.5°	55.7	59.0	63.9	73.8	77.1	103.3	111.5	132.8	142.6	175.4
60°	9.8	11.5	18.0	44.3	54.1	65.6	83.6	101.6	114.8	137.7
62.5°	1.6	1.6	3.3	9.8	31.2	45.9	60.7	72.1	83.6	104.9
65°	0.0	0.0	1.6	3.3	8.2	26.2	32.8	42.6	57.4	75.4
67.5°	0.0	0.0	1.6	3.3	4.9	9.8	14.8	26.2	32.8	50.8
70°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	11.5	19.7	31.2
72.5°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	9.8	9.8	19.7
75°	0.0	0.0	1.6	3.3	4.9	8.2	9.8	9.8	8.2	8.2
77.5°	0.0	0.0	1.6	3.3	6.6	9.8	11.5	9.8	6.6	6.6
80°	0.0	0.0	3.3	4.9	8.2	11.5	14.8	11.5	6.6	3.3
82.5°	0.0	0.0	3.3	6.6	8.2	13.1	18.0	14.8	6.6	3.3
85°	0.0	0.0	1.6	4.9	9.8	13.1	18.0	13.1	6.6	1.6
87.5°	0.0	0.0	1.6	1.6	3.3	4.9	9.8	8.2	3.3	1.6
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°
51440.2	0°	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2	51440.2
50209.0	2.5°	50497.5	50759.8	50813.9	50741.8	50846.7	50658.2	50513.9	50140.1	49915.5
47025.1	5°	47328.4	47289.0	47562.8	47653.0	47641.5	47497.3	47295.6	47069.4	46849.7
42113.2	7.5°	42375.5	42426.4	42675.6	42834.6	42754.3	42573.9	42434.6	42264.1	42116.5
36771.8	10°	37107.9	36758.7	37068.6	37068.6	37283.3	36773.4	36821.0	36391.4	36411.1
30633.6	12.5°	30738.5	30864.8	30915.6	31061.5	30810.7	30540.2	30209.0	30143.4	29938.5
22895.3	15°	23224.8	23585.5	23275.6	23805.2	23549.4	23267.4	23216.6	22708.4	22869.1
16606.3	17.5°	16524.3	16922.7	17047.3	17350.6	17117.8	16950.5	16739.1	16584.9	16573.5
11625.5	20°	11717.3	12117.4	12209.2	12573.1	12546.9	12494.4	12315.7	12120.6	11909.2
7913.8	22.5°	8033.4	8359.7	8664.6	9154.8	9146.6	8992.5	8974.5	8699.1	8704.0
5346.3	25°	5402.1	5639.8	5711.9	6213.6	6269.4	6253.0	6159.5	5903.8	6000.5
3265.8	27.5°	3269.1	3477.3	3721.6	3898.7	4065.9	4039.7	3946.2	3803.6	3741.3
1962.5	30°	2014.9	2108.4	2198.5	2411.7	2511.7	2564.1	2519.9	2387.1	2396.9
1291.9	32.5°	1319.8	1398.5	1464.1	1598.5	1651.0	1747.7	1729.6	1701.8	1669.0
929.6	35°	962.4	1019.8	1064.0	1126.3	1193.5	1275.5	1288.6	1277.2	1264.0
718.1	37.5°	734.5	793.5	844.3	870.6	923.0	987.0	1023.0	1021.4	1011.6
585.3	40°	596.8	641.0	686.9	721.4	757.4	805.0	849.2	854.2	854.2
491.8	42.5°	498.4	536.1	582.0	618.1	644.3	688.6	734.5	737.8	734.5
416.4	45°	426.3	459.1	503.3	545.9	567.3	600.0	644.3	654.2	647.6
357.4	47.5°	370.5	400.0	437.7	483.6	506.6	536.1	577.1	588.6	586.9
308.2	50°	318.1	352.5	390.2	427.9	457.4	485.3	524.6	537.7	532.8
262.3	52.5°	280.4	311.5	344.3	385.3	419.7	444.3	475.4	498.4	491.8
221.3	55°	234.4	272.2	306.6	341.0	383.6	409.9	439.4	467.3	460.7
186.9	57.5°	203.3	234.4	273.8	304.9	347.6	378.7	408.2	437.7	436.1
152.5	60°	170.5	203.3	241.0	273.8	313.1	347.6	377.1	409.9	413.1
114.8	62.5°	134.4	173.8	206.6	244.3	283.6	321.3	347.6	380.4	385.3
86.9	65°	101.6	142.6	178.7	214.8	254.1	295.1	318.1	345.9	350.8
63.9	67.5°	75.4	109.8	152.5	185.3	226.2	265.6	286.9	309.9	318.1
39.3	70°	57.4	83.6	127.9	159.0	201.7	232.8	255.8	275.4	282.0
26.2	72.5°	36.1	65.6	103.3	136.1	173.8	201.7	218.1	229.5	239.4
14.8	75°	24.6	50.8	83.6	116.4	144.3	165.6	180.3	190.2	198.4
6.6	77.5°	14.8	39.3	68.9	96.7	114.8	131.2	145.9	152.5	157.4
4.9	80°	8.2	29.5	57.4	78.7	90.2	101.6	113.1	121.3	124.6
3.3	82.5°	4.9	23.0	45.9	60.7	65.6	77.1	88.5	93.5	93.5
1.6	85°	3.3	16.4	31.2	44.3	47.5	55.7	59.0	62.3	65.6
1.6	87.5°	3.3	9.8	19.7	24.6	26.2	29.5	31.2	34.4	37.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
51440.2
49749.9
46603.7
41616.5
36219.3
29751.6
22708.4
16268.5
11817.3
8608.9
5848.0
3687.2
2354.3
1657.5
1259.1
1006.6
844.3
731.2
647.6
583.7
529.6
490.2
464.0
437.7
414.8
388.6
355.8
321.3
285.3
237.7
196.7
155.8
121.3
91.8
63.9
36.1
0.0

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