

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: P637144

Luminaire Tested: **IFLD-S-SA2B-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11614.8 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

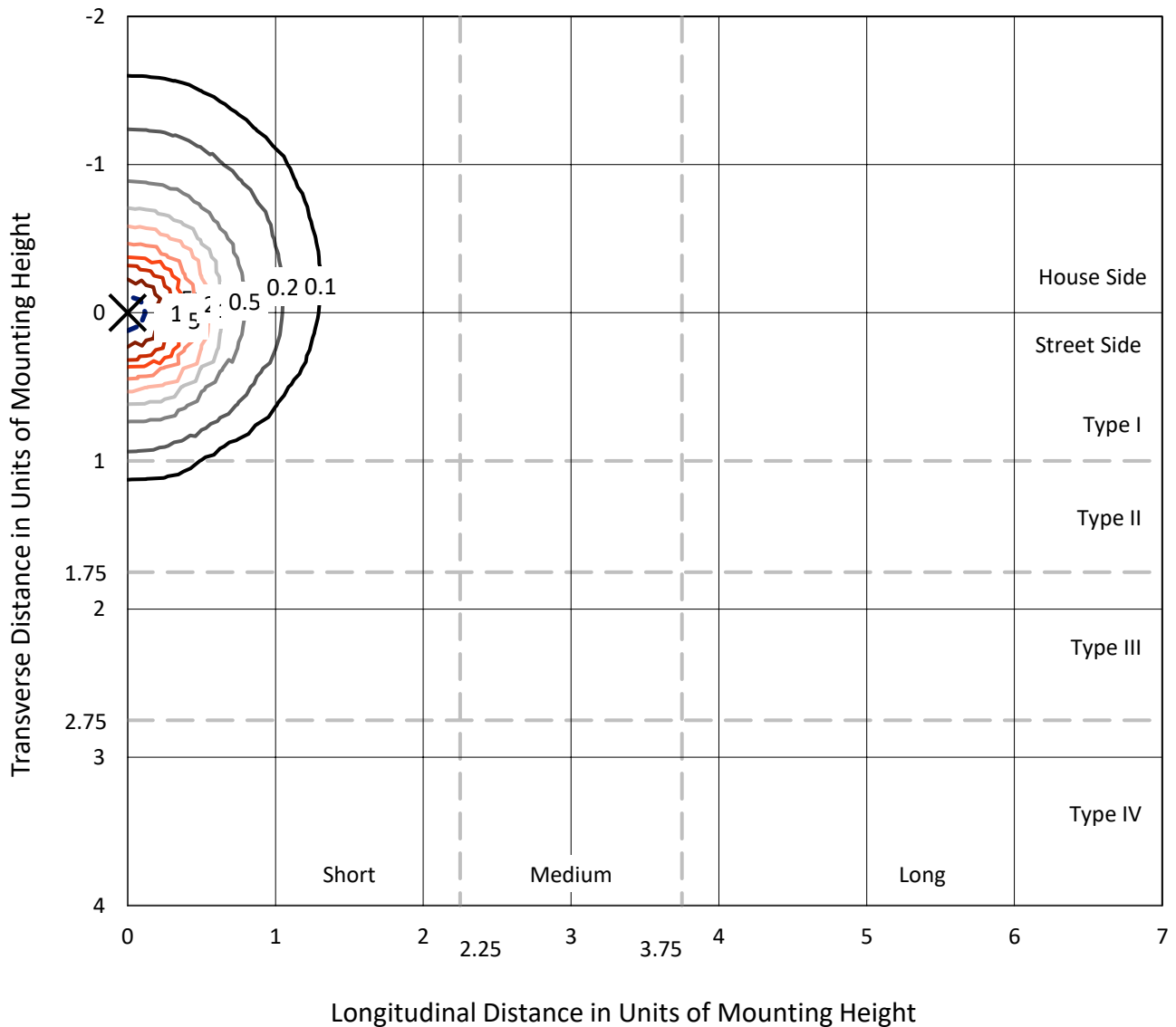
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: IFLD-S-SA2B-750-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

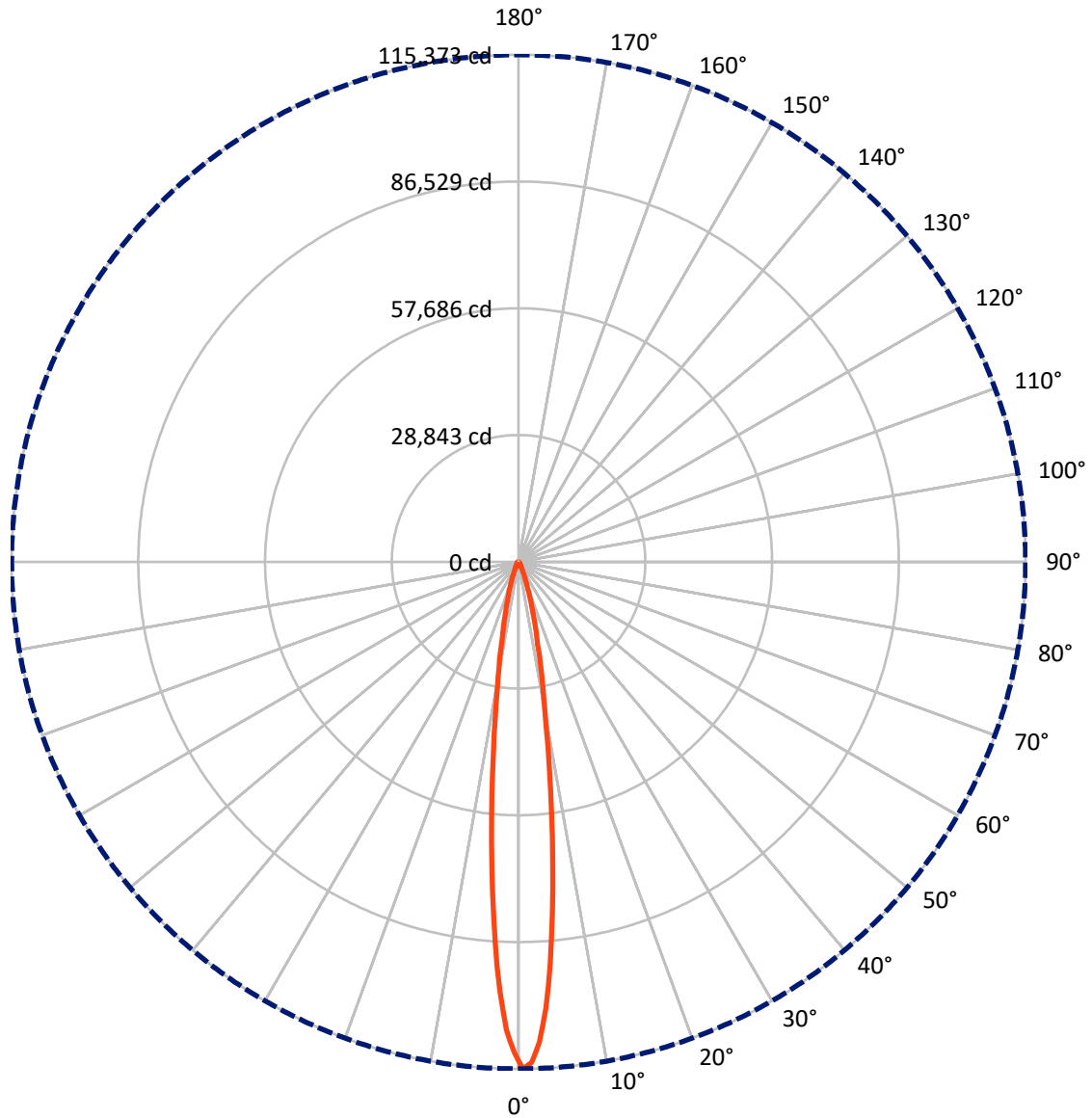
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 288.4 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	5948.9	0.0	5948.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5665.9	0.0	5665.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	11614.8	0.0	11614.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5863.5	50.5
10°-20°	3753.8	32.3
20°-30°	1128.3	9.7
30°-40°	367.4	3.2
40°-50°	213.8	1.8
50°-60°	142.0	1.2
60°-70°	85.5	0.7
70°-80°	43.9	0.4
80°-90°	16.7	0.1
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°	11614.8	100.0
0°-180°	11614.8	100.0

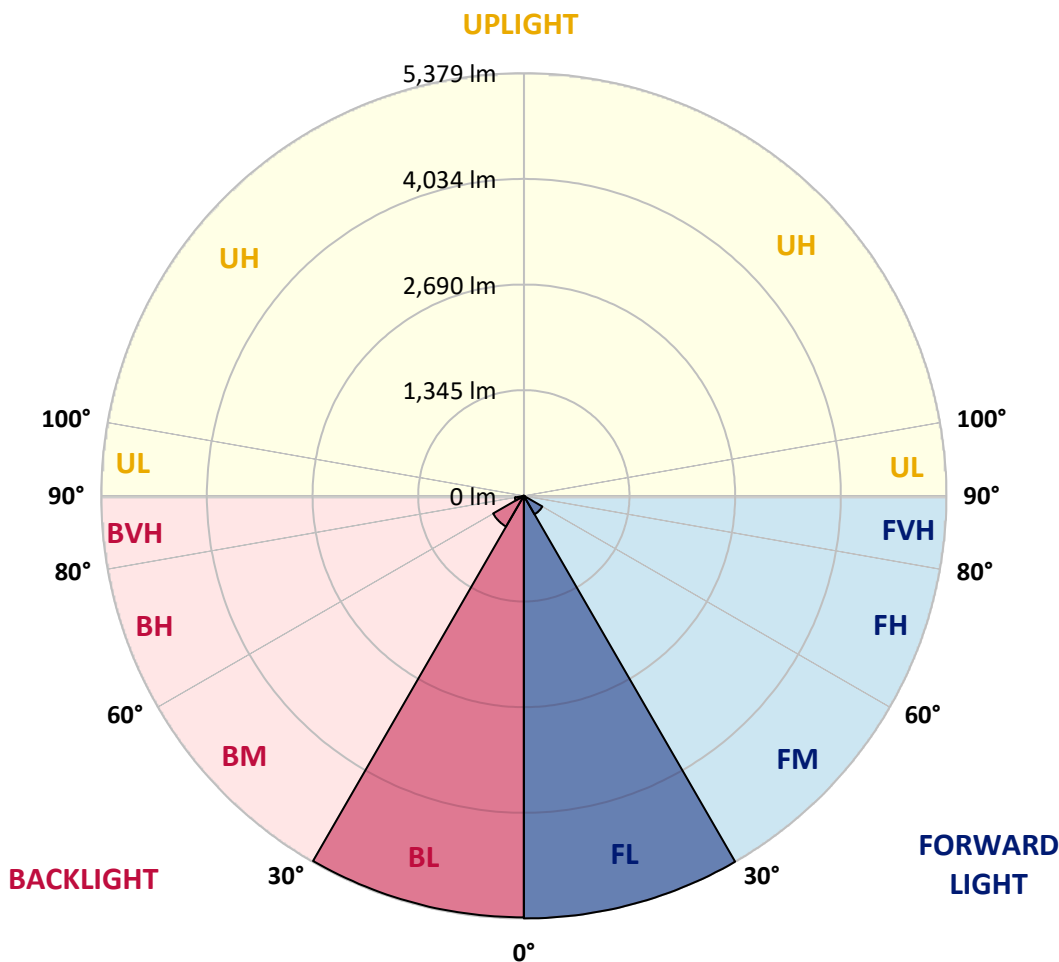


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5379.2	46.3			
FM (30°-60°)	271.4	2.3			
FH (60°-80°)	12.8	0.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	5366.4	46.2	B5		
BM (30°-60°)	451.7	3.9	B1/1000		
BH (60°-80°)	116.6	1.0	B1/500		G0/660
BVH (80°-90°)	14.2	0.1			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°	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5
1°	113991.1	113643.2	112745.0	113383.9	113945.5	113782.4	113771.0	113710.2	113625.5	114290.9
2°	109434.4	109209.2	107881.0	108428.7	109227.0	108645.0	109009.4	108689.3	108695.6	109490.1
3°	101753.1	101875.8	99756.9	100752.5	101861.9	100451.4	100889.1	101711.4	100849.9	100590.6
4°	91769.5	90704.3	89546.8	90558.8	90846.0	90025.0	90832.1	91839.0	90642.3	90695.5
5°	80371.5	79584.6	78214.6	78839.5	78127.3	78386.7	79596.0	80011.0	79176.0	78124.8
6°	68652.2	68093.1	66380.2	67280.9	67027.9	66881.2	68408.1	67143.0	67598.4	66962.1
7°	57105.0	56060.0	55218.8	56081.6	56137.2	55695.7	57678.0	57447.8	56619.2	56426.9
8°	47312.3	46269.9	45557.7	46200.4	46620.4	45927.1	46859.4	47471.7	46824.0	46882.2
9°	38159.8	37976.4	36985.8	37825.8	38282.5	37539.9	38572.2	38793.6	38187.6	38482.4
10°	31332.4	31118.6	30328.0	30668.3	31424.7	30539.2	31529.7	31601.9	31118.6	31256.5
12.5°	19362.6	19276.6	19255.1	19304.4	19294.3	19451.2	19704.2	19415.8	19377.8	18900.9
15°	12515.0	12642.8	12511.2	12764.2	12800.9	12948.9	12794.6	12561.8	12117.8	11897.7
17.5°	7810.3	7973.5	8198.7	8569.4	8940.0	8983.0	8778.1	8504.8	8289.8	8054.5
20°	4493.4	4573.1	4538.9	4983.0	5941.9	6202.5	5938.1	5650.9	5391.6	5153.8
22.5°	2791.9	2762.8	2816.0	2965.2	3277.7	4083.5	3867.2	3580.1	3391.6	3195.5
25°	1711.6	1743.2	1723.0	1805.2	1945.6	2287.2	2336.5	2212.5	2116.4	2015.2
27.5°	1101.8	1101.8	1110.7	1156.2	1252.4	1241.0	1504.1	1408.0	1356.1	1306.8
30°	765.3	767.9	767.9	794.4	815.9	778.0	846.3	970.3	946.2	908.3
32.5°	568.0	575.6	581.9	595.8	578.1	537.6	554.1	698.3	684.4	670.5
35°	432.6	439.0	454.1	461.7	436.4	411.1	396.0	513.6	519.9	516.1
37.5°	315.0	318.8	346.6	375.7	346.6	323.8	315.0	394.7	425.1	421.3
40°	241.6	242.9	247.9	280.8	280.8	263.1	265.7	294.8	347.9	347.9
42.5°	207.5	207.5	212.5	207.5	208.7	227.7	234.0	237.8	294.8	294.8
45°	179.6	179.6	182.2	169.5	156.9	196.1	201.1	202.4	247.9	254.3
47.5°	150.5	150.5	155.6	139.2	132.8	155.6	169.5	173.3	213.8	218.9
50°	111.3	112.6	127.8	113.9	117.6	120.2	146.7	149.3	180.9	192.3
52.5°	74.6	74.6	77.2	88.6	102.5	98.7	118.9	127.8	144.2	159.4
55°	60.7	60.7	59.5	56.9	75.9	82.2	87.3	106.3	117.6	136.6
57.5°	41.7	44.3	40.5	46.8	49.3	62.0	65.8	83.5	89.8	115.1
60°	5.1	6.3	8.9	34.2	32.9	41.7	49.3	65.8	73.4	88.6
62.5°	1.3	1.3	2.5	6.3	22.8	27.8	39.2	45.5	53.1	68.3
65°	0.0	0.0	1.3	2.5	5.1	15.2	20.2	26.6	38.0	48.1
67.5°	0.0	0.0	1.3	2.5	2.5	6.3	10.1	16.4	20.2	35.4
70°	0.0	0.0	1.3	2.5	2.5	5.1	6.3	7.6	13.9	19.0
72.5°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	6.3	6.3	12.7
75°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	6.3	5.1	5.1
77.5°	0.0	0.0	1.3	2.5	5.1	6.3	7.6	6.3	3.8	3.8
80°	0.0	0.0	1.3	3.8	6.3	8.9	10.1	7.6	3.8	2.5
82.5°	0.0	0.0	2.5	5.1	7.6	10.1	13.9	11.4	5.1	2.5
85°	0.0	0.0	1.3	3.8	7.6	10.1	20.2	13.9	6.3	1.3
87.5°	0.0	0.0	0.0	1.3	1.3	2.5	7.6	5.1	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637144

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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
115372.5	0°	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5	115372.5
113523.0	1°	114316.2	114395.9	114135.3	114538.8	114397.2	113567.3	113292.8	112499.6
109023.3	2°	108689.3	109095.4	109115.6	109563.5	109557.1	108589.4	108289.6	108842.4
101116.8	3°	100810.7	101283.8	100857.5	101653.2	101414.1	100240.1	99935.3	100562.7
91115.4	4°	90843.5	90753.6	90606.9	90154.0	90711.9	89911.1	89307.7	90159.1
79518.9	5°	79359.5	79159.6	78873.7	78739.6	79154.5	78642.2	77401.2	78644.7
68113.3	6°	68196.8	67336.6	67294.8	67220.2	67261.9	65827.4	65913.4	66839.4
55765.3	7°	56354.8	56512.9	56190.3	56707.7	56313.1	55341.5	54967.1	55942.4
47137.8	8°	46808.8	46609.0	46362.3	47135.2	46450.8	45813.3	45376.8	46147.2
38530.5	9°	38458.3	38113.0	37862.5	37823.3	37929.6	36732.8	36975.7	37558.9
31332.4	10°	31343.8	30777.0	30914.9	30951.6	30835.2	30050.9	30058.5	30259.6
19217.2	12.5°	19148.8	18870.5	18940.1	18978.1	19214.6	18938.8	18549.2	18268.4
12116.5	15°	12035.5	11835.7	12244.3	12518.8	12463.1	12217.7	12034.3	11780.0
8054.5	17.5°	7979.8	8241.7	8243.0	8493.4	8518.7	8273.3	8131.6	7902.7
5238.5	20°	5219.5	5328.3	5554.8	5731.9	5834.3	5647.1	5477.6	5320.7
3266.3	22.5°	3266.3	3456.1	3597.8	3828.0	3921.6	3785.0	3664.8	3537.0
2039.2	25°	2005.1	2140.4	2258.1	2458.0	2585.7	2520.0	2409.9	2320.1
1316.9	27.5°	1337.1	1394.1	1452.3	1590.1	1723.0	1686.3	1642.0	1587.6
928.5	30°	942.5	947.5	1009.5	1086.7	1175.2	1198.0	1177.7	1149.9
681.9	32.5°	694.5	714.7	743.8	791.9	851.4	905.8	895.6	883.0
521.2	35°	536.4	566.7	590.8	627.5	659.1	710.9	719.8	716.0
428.8	37.5°	437.7	464.3	488.3	509.8	536.4	571.8	599.6	600.9
354.2	40°	363.1	387.1	418.7	435.2	454.1	480.7	514.9	517.4
299.8	42.5°	306.1	328.9	360.5	380.8	394.7	420.0	454.1	459.2
256.8	45°	263.1	277.0	309.9	334.0	347.9	364.3	401.0	406.1
221.4	47.5°	229.0	242.9	263.1	297.3	309.9	325.1	354.2	363.1
196.1	50°	201.1	215.1	232.8	263.1	282.1	294.8	318.8	331.4
170.8	52.5°	178.4	192.3	211.3	235.3	256.8	268.2	291.0	307.4
139.2	55°	149.3	173.3	187.2	208.7	237.8	247.9	265.7	287.2
121.4	57.5°	130.3	150.5	170.8	188.5	217.6	230.2	247.9	268.2
96.1	60°	110.1	129.0	153.1	168.2	196.1	212.5	231.5	250.5
73.4	62.5°	87.3	112.6	129.0	150.5	177.1	198.6	213.8	232.8
56.9	65°	64.5	92.3	111.3	134.1	159.4	182.2	194.8	215.1
40.5	67.5°	46.8	72.1	94.9	116.4	140.4	163.2	175.8	193.6
25.3	70°	36.7	53.1	78.4	97.4	122.7	141.7	155.6	167.0
16.4	72.5°	21.5	40.5	63.3	84.8	107.5	120.2	130.3	140.4
7.6	75°	13.9	31.6	51.9	70.8	87.3	98.7	107.5	116.4
3.8	77.5°	8.9	22.8	41.7	59.5	67.0	81.0	88.6	93.6
2.5	80°	5.1	17.7	36.7	48.1	54.4	63.3	70.8	77.2
2.5	82.5°	3.8	15.2	30.4	40.5	40.5	50.6	54.4	54.4
1.3	85°	2.5	12.7	24.0	38.0	30.4	38.0	35.4	35.4
1.3	87.5°	2.5	8.9	11.4	16.4	13.9	16.4	16.4	19.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
115372.5
111679.9
106500.8
97775.9
87077.5
75368.3
64155.0
53289.6
43947.3
35737.3
28890.9
18097.6
11649.7
7845.8
5266.3
3468.7
2268.2
1556.0
1130.9
872.9
703.4
592.0
513.6
455.4
404.8
364.3
332.7
307.4
288.4
269.5
255.5
241.6
218.9
194.8
170.8
142.9
116.4
91.1
69.6
50.6
34.2
19.0
0.0

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