

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: P637232

Luminaire Tested: **IFLD-S-SA2C-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637232
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11231.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

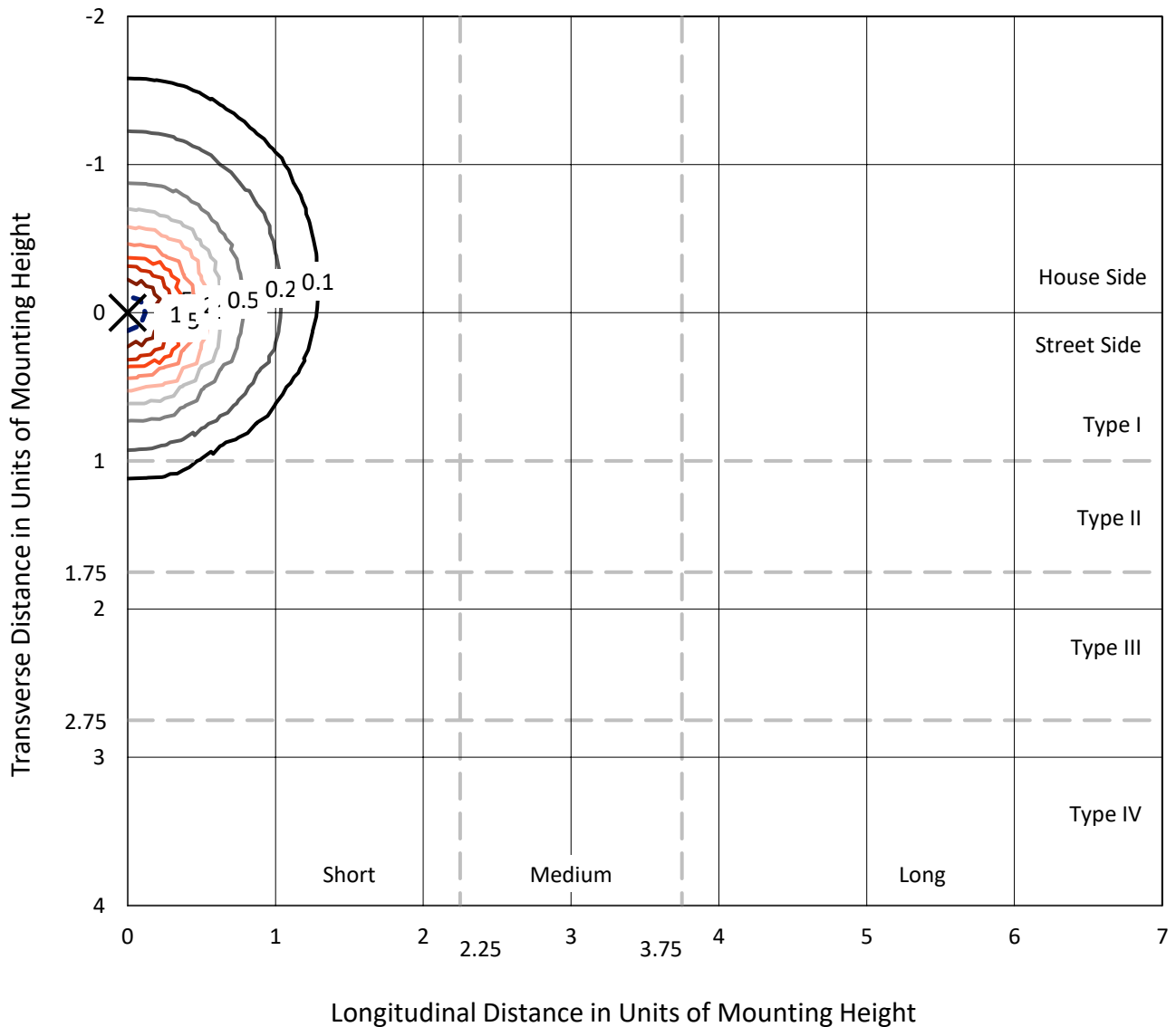
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

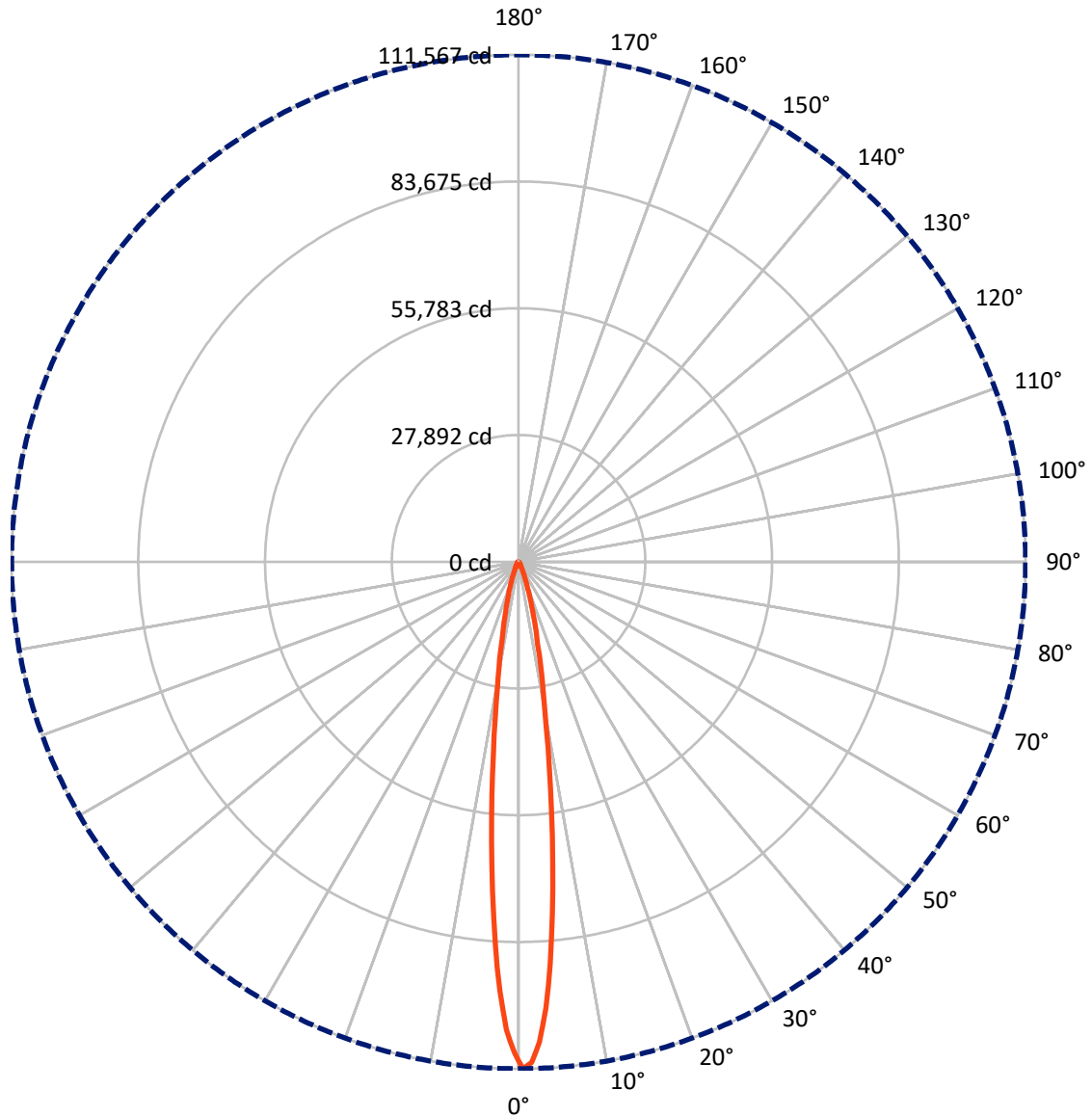
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 278.9 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	5752.6	0.0	5752.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5479.0	0.0	5479.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	11231.6	0.0	11231.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5670.1	50.5
10°-20°	3630.0	32.3
20°-30°	1091.1	9.7
30°-40°	355.3	3.2
40°-50°	206.7	1.8
50°-60°	137.3	1.2
60°-70°	82.6	0.7
70°-80°	42.5	0.4
80°-90°	16.1	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°	11231.6	100.0
0°-180°	11231.6	100.0

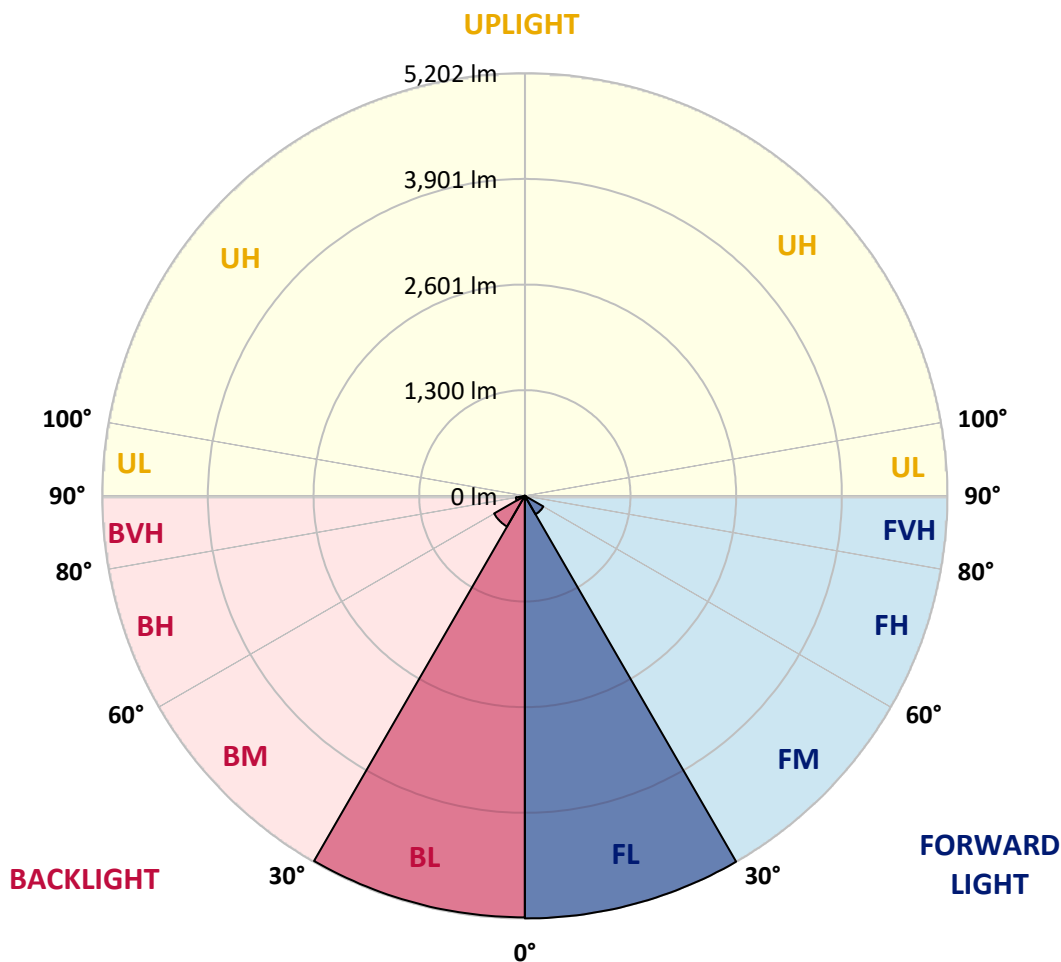


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5201.7	46.3			
FM (30°-60°)	262.5	2.3			
FH (60°-80°)	12.3	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5189.4	46.2	B5		
BM (30°-60°)	436.8	3.9	B1/1000		
BH (60°-80°)	112.8	1.0	B1/500		G0/660
BVH (80°-90°)	13.7	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°	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7
1°	110230.8	109894.4	109025.8	109643.6	110186.8	110029.0	110017.9	109959.2	109877.3	110520.7
2°	105824.5	105606.7	104322.2	104851.9	105623.8	105061.1	105413.4	105103.9	105110.0	105878.3
3°	98396.5	98515.2	96466.2	97428.9	98501.8	97137.8	97561.0	98356.2	97523.1	97272.3
4°	88742.2	87712.2	86592.9	87571.5	87849.2	87055.3	87835.8	88809.5	87652.3	87703.6
5°	77720.2	76959.4	75634.5	76238.8	75550.1	75800.9	76970.4	77371.6	76564.2	75547.7
6°	66387.5	65846.8	64190.5	65061.5	64816.8	64674.9	66151.4	64928.1	65368.5	64753.2
7°	55221.2	54210.8	53397.3	54231.6	54285.4	53858.5	55775.4	55552.7	54751.5	54565.5
8°	45751.6	44743.6	44054.9	44676.3	45082.5	44412.1	45313.7	45905.7	45279.4	45335.7
9°	36901.0	36723.6	35765.8	36578.0	37019.7	36301.6	37299.8	37513.9	36927.9	37212.9
10°	30298.8	30092.1	29327.5	29656.6	30388.1	29531.8	30489.7	30559.4	30092.1	30225.4
12.5°	18723.9	18640.7	18619.9	18667.6	18657.9	18809.5	19054.2	18775.3	18738.6	18277.4
15°	12102.2	12225.7	12098.5	12343.1	12378.6	12521.8	12372.5	12147.4	11718.0	11505.2
17.5°	7552.7	7710.5	7928.2	8286.7	8645.1	8686.7	8488.5	8224.3	8016.3	7788.8
20°	4345.2	4422.2	4389.2	4818.6	5745.9	5997.9	5742.2	5464.5	5213.7	4983.7
22.5°	2699.8	2671.7	2723.1	2867.4	3169.6	3948.8	3739.6	3462.0	3279.7	3090.1
25°	1655.1	1685.7	1666.1	1745.7	1881.4	2211.7	2259.4	2139.6	2046.6	1948.7
27.5°	1065.5	1065.5	1074.1	1118.1	1211.1	1200.1	1454.5	1361.5	1311.4	1263.7
30°	740.1	742.5	742.5	768.2	789.0	752.3	818.4	938.3	915.0	878.3
32.5°	549.3	556.6	562.7	576.2	559.1	519.9	535.8	675.3	661.8	648.4
35°	418.4	424.5	439.2	446.5	422.0	397.6	382.9	496.7	502.8	499.1
37.5°	304.6	308.3	335.2	363.3	335.2	313.2	304.6	381.7	411.0	407.4
40°	233.7	234.9	239.8	271.6	271.6	254.4	256.9	285.0	336.4	336.4
42.5°	200.6	200.6	205.5	200.6	201.8	220.2	226.3	230.0	285.0	285.0
45°	173.7	173.7	176.2	163.9	151.7	189.6	194.5	195.7	239.8	245.9
47.5°	145.6	145.6	150.5	134.6	128.4	150.5	163.9	167.6	206.7	211.6
50°	107.7	108.9	123.6	110.1	113.8	116.2	141.9	144.4	174.9	185.9
52.5°	72.2	72.2	74.6	85.6	99.1	95.4	115.0	123.6	139.5	154.1
55°	58.7	58.7	57.5	55.0	73.4	79.5	84.4	102.8	113.8	132.1
57.5°	40.4	42.8	39.1	45.3	47.7	59.9	63.6	80.7	86.9	111.3
60°	4.9	6.1	8.6	33.0	31.8	40.4	47.7	63.6	71.0	85.6
62.5°	1.2	1.2	2.4	6.1	22.0	26.9	37.9	44.0	51.4	66.1
65°	0.0	0.0	1.2	2.4	4.9	14.7	19.6	25.7	36.7	46.5
67.5°	0.0	0.0	1.2	2.4	2.4	6.1	9.8	15.9	19.6	34.3
70°	0.0	0.0	1.2	2.4	2.4	4.9	6.1	7.3	13.5	18.3
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	6.1	6.1	12.2
75°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	6.1	4.9	4.9
77.5°	0.0	0.0	1.2	2.4	4.9	6.1	7.3	6.1	3.7	3.7
80°	0.0	0.0	1.2	3.7	6.1	8.6	9.8	7.3	3.7	2.4
82.5°	0.0	0.0	2.4	4.9	7.3	9.8	13.5	11.0	4.9	2.4
85°	0.0	0.0	1.2	3.7	7.3	9.8	19.6	13.5	6.1	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	7.3	4.9	2.4	1.2
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°
111566.7	0°	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7	111566.7
109778.2	1°	110545.2	110622.3	110370.3	110760.5	110623.5	109821.0	109555.5	109241.2
105426.9	2°	105103.9	105496.6	105516.2	105949.2	105943.1	105007.3	104717.4	105252.0
97781.2	3°	97485.2	97942.7	97530.4	98299.9	98068.7	96933.5	96638.7	97245.4
88109.8	4°	87846.8	87759.9	87618.0	87180.1	87719.5	86945.2	86361.7	87185.0
76895.7	5°	76741.6	76548.3	76271.9	76142.2	76543.4	76048.0	74847.9	76050.4
65866.4	6°	65947.2	65115.3	65074.9	65002.8	65043.1	63655.9	63739.1	64634.6
53925.7	7°	54495.8	54648.7	54336.8	54837.1	54455.4	53515.9	53153.8	54097.0
45582.8	8°	45264.7	45071.5	44832.9	45580.3	44918.5	44302.0	43880.0	44624.9
37259.4	9°	37189.7	36855.7	36613.5	36575.6	36678.4	35521.1	35756.0	36319.9
30298.8	10°	30309.8	29761.8	29895.1	29930.6	29818.1	29059.6	29067.0	29261.5
18583.2	12.5°	18517.2	18248.0	18315.3	18352.0	18580.8	18314.1	17937.3	17665.7
11716.8	15°	11638.5	11445.2	11840.4	12105.8	12052.0	11814.7	11637.3	11391.4
7788.8	17.5°	7716.6	7969.8	7971.1	8213.3	8237.7	8000.4	7863.4	7642.0
5065.7	20°	5047.4	5152.6	5371.5	5542.8	5641.9	5460.8	5296.9	5145.2
3158.6	22.5°	3158.6	3342.1	3479.1	3701.7	3792.2	3660.1	3543.9	3420.4
1972.0	25°	1938.9	2069.8	2183.6	2376.9	2500.4	2436.8	2330.4	2243.5
1273.5	27.5°	1293.0	1348.1	1404.4	1537.7	1666.1	1630.7	1587.9	1535.2
897.9	30°	911.4	916.3	976.2	1050.8	1136.5	1158.5	1138.9	1112.0
659.4	32.5°	671.6	691.2	719.3	765.8	823.3	875.9	866.1	853.9
504.0	35°	518.7	548.0	571.3	606.8	637.3	687.5	696.1	692.4
414.7	37.5°	423.3	449.0	472.2	493.0	518.7	552.9	579.8	581.1
342.5	40°	351.1	374.3	404.9	420.8	439.2	464.9	497.9	500.3
289.9	42.5°	296.0	318.1	348.6	368.2	381.7	406.1	439.2	444.1
248.3	45°	254.4	267.9	299.7	323.0	336.4	352.3	387.8	392.7
214.1	47.5°	221.4	234.9	254.4	287.5	299.7	314.4	342.5	351.1
189.6	50°	194.5	208.0	225.1	254.4	272.8	285.0	308.3	320.5
165.1	52.5°	172.5	185.9	204.3	227.5	248.3	259.3	281.4	297.3
134.6	55°	144.4	167.6	181.0	201.8	230.0	239.8	256.9	277.7
117.4	57.5°	126.0	145.6	165.1	182.3	210.4	222.6	239.8	259.3
93.0	60°	106.4	124.8	148.0	162.7	189.6	205.5	223.9	242.2
71.0	62.5°	84.4	108.9	124.8	145.6	171.3	192.1	206.7	225.1
55.0	65°	62.4	89.3	107.7	129.7	154.1	176.2	188.4	208.0
39.1	67.5°	45.3	69.7	91.7	112.5	135.8	157.8	170.0	187.2
24.5	70°	35.5	51.4	75.8	94.2	118.7	137.0	150.5	161.5
15.9	72.5°	20.8	39.1	61.2	82.0	104.0	116.2	126.0	135.8
7.3	75°	13.5	30.6	50.2	68.5	84.4	95.4	104.0	112.5
3.7	77.5°	8.6	22.0	40.4	57.5	64.8	78.3	85.6	90.5
2.4	80°	4.9	17.1	35.5	46.5	52.6	61.2	68.5	74.6
2.4	82.5°	3.7	14.7	29.4	39.1	39.1	48.9	52.6	52.6
1.2	85°	2.4	12.2	23.2	36.7	29.4	36.7	34.3	34.3
1.2	87.5°	2.4	8.6	11.0	15.9	13.5	15.9	15.9	18.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
111566.7
107995.8
102987.6
94550.5
84205.0
72882.1
62038.7
51531.7
42497.6
34558.4
27937.8
17500.6
11265.4
7586.9
5092.6
3354.3
2193.4
1504.7
1093.6
844.1
680.2
572.5
496.7
440.4
391.5
352.3
321.7
297.3
278.9
260.6
247.1
233.7
211.6
188.4
165.1
138.2
112.5
88.1
67.3
48.9
33.0
18.3
0.0

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