

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: P637724

Luminaire Tested: **IFLD-S-SA2B-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7884.1 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - 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



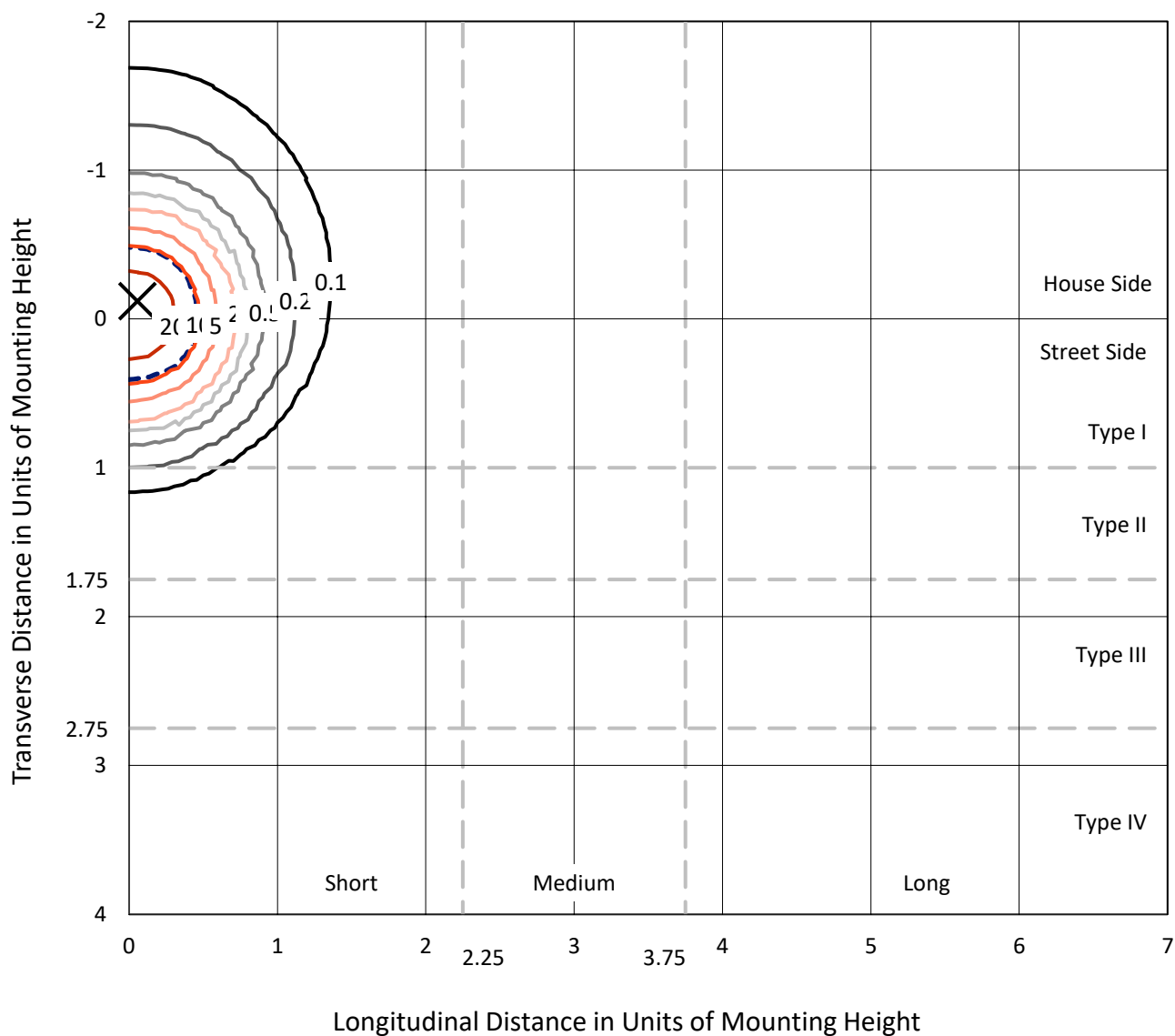
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



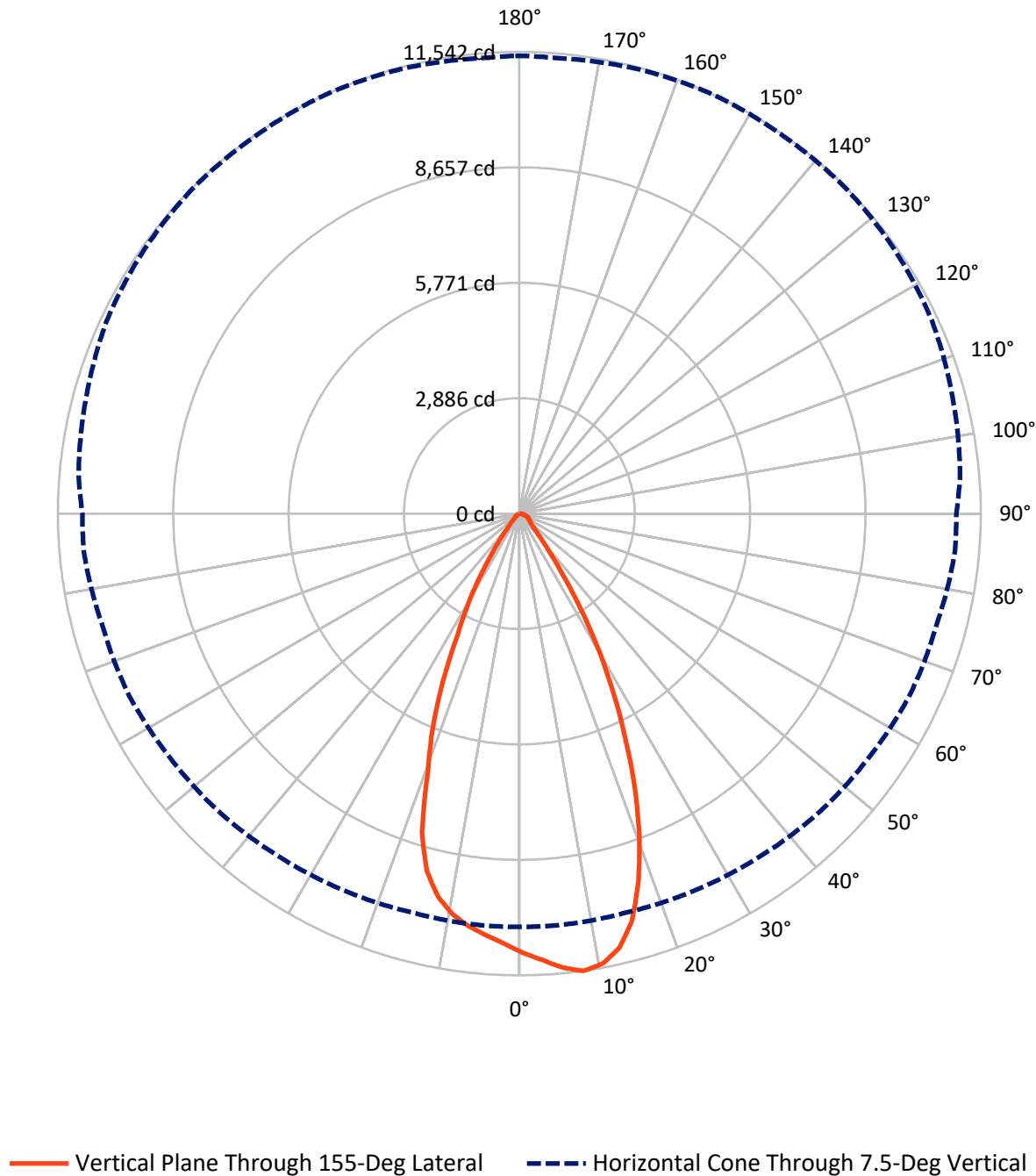
Based on 20 foot mounting height. Maximum calculated value = 27.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4352.3	0.0	4352.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3531.8	0.0	3531.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	7884.1	0.0	7884.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.3	13.3
10°-20°	2715.7	34.4
20°-30°	2488.3	31.6
30°-40°	1005.3	12.8
40°-50°	294.9	3.7
50°-60°	164.9	2.1
60°-70°	100.1	1.3
70°-80°	50.9	0.6
80°-90°	16.6	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°	7884.1	100.0
0°-180°	7884.1	100.0

Coefficient of Utilization



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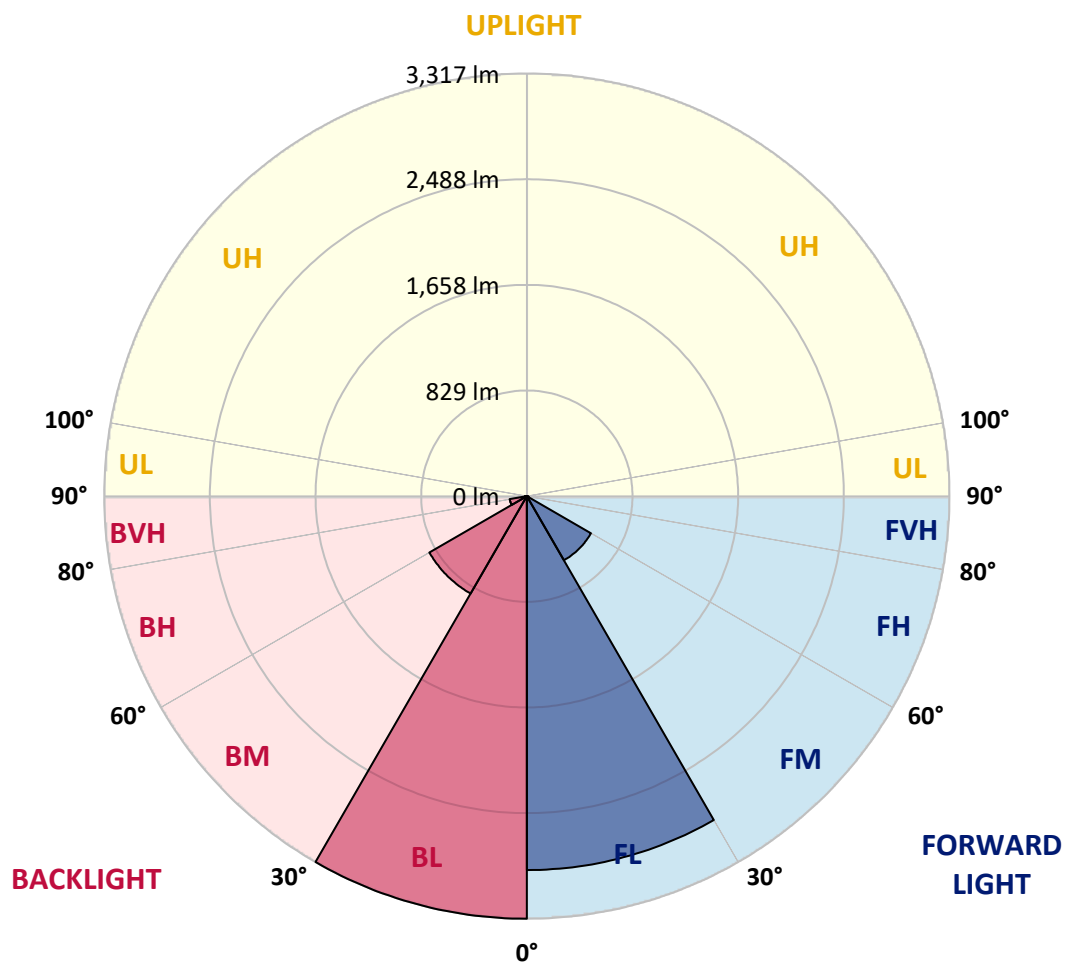
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2934.7	37.2			
FM	(30°-60°)	581.6	7.4			
FH	(60°-80°)	14.1	0.2			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	3316.7	42.1	B4/5000		
BM	(30°-60°)	883.5	11.2	B1/1000		
BH	(60°-80°)	136.9	1.7	B1/500		G1/500
BVH	(80°-90°)	15.2	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°	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1
2.5°	10744.9	10781.3	10708.6	10756.8	10794.0	10883.1	10890.4	10921.3	10932.2	11013.1
5°	10541.3	10569.5	10510.4	10574.9	10627.7	10706.8	10767.7	10853.1	10900.4	10995.9
7.5°	10329.5	10335.8	10324.0	10392.2	10471.3	10580.4	10655.9	10767.7	10796.8	10933.1
10°	10073.1	10026.7	10049.5	10149.5	10267.7	10434.9	10486.8	10598.6	10650.4	10789.5
12.5°	9664.0	9687.6	9659.5	9786.7	9884.9	10074.9	10129.5	10242.2	10341.3	10464.0
15°	9087.6	9074.0	9131.3	9230.3	9336.7	9487.6	9575.8	9698.5	9774.0	9901.3
17.5°	7792.1	7838.5	8074.8	8323.0	8541.2	8717.6	8823.1	8924.9	8979.4	9117.6
20°	6729.3	6671.2	6703.0	6843.0	7463.9	7733.9	7844.8	7869.4	7892.1	8001.2
22.5°	5541.1	5522.0	5628.4	5785.7	5932.9	6555.7	6706.6	6649.3	6696.6	6799.3
25°	4114.7	4211.1	4305.6	4607.4	4798.4	5103.8	5390.2	5415.7	5432.9	5497.5
27.5°	3349.2	3315.6	3313.8	3398.3	3680.1	3934.7	4178.3	4234.7	4224.7	4286.5
30°	2632.8	2621.9	2583.7	2603.7	2575.6	2801.9	2916.5	3148.3	3135.6	3137.4
32.5°	1899.2	1858.3	1842.8	1872.8	1843.7	1822.8	1922.8	2184.6	2180.1	2198.3
35°	1149.1	1143.7	1156.4	1182.8	1124.6	1122.8	1143.7	1390.1	1420.1	1449.1
37.5°	634.6	629.1	639.1	736.4	717.3	700.0	705.5	835.5	921.9	943.7
40°	418.2	417.3	424.6	441.8	474.6	468.2	470.9	529.1	610.9	630.0
42.5°	280.0	280.9	285.5	305.5	310.0	342.7	337.3	350.9	427.3	443.7
45°	223.6	222.7	225.5	216.4	221.8	255.5	259.1	260.0	325.5	335.5
47.5°	176.4	176.4	179.1	167.3	164.6	185.5	204.6	207.3	260.0	273.6
50°	123.6	123.6	137.3	131.8	138.2	144.6	165.5	168.2	212.7	227.3
52.5°	90.9	92.7	94.5	95.5	116.4	115.5	133.6	146.4	160.9	186.4
55°	69.1	70.9	66.4	70.9	86.4	96.4	100.0	118.2	128.2	156.4
57.5°	45.5	50.0	46.4	54.5	58.2	74.5	80.0	97.3	103.6	128.2
60°	6.4	7.3	11.8	38.2	40.9	49.1	61.8	77.3	83.6	104.5
62.5°	0.9	0.9	2.7	6.4	27.3	32.7	46.4	53.6	61.8	78.2
65°	0.0	0.0	0.9	1.8	5.5	19.1	23.6	29.1	42.7	56.4
67.5°	0.0	0.0	0.9	1.8	2.7	6.4	10.0	19.1	24.5	39.1
70°	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	14.5	22.7
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	5.5	6.4	14.5
75°	0.0	0.0	0.9	1.8	2.7	4.5	5.5	5.5	5.5	6.4
77.5°	0.0	0.0	0.9	1.8	3.6	5.5	6.4	5.5	4.5	4.5
80°	0.0	0.0	0.9	2.7	4.5	6.4	7.3	5.5	3.6	2.7
82.5°	0.0	0.0	0.9	2.7	4.5	6.4	7.3	6.4	3.6	2.7
85°	0.0	0.0	0.9	2.7	3.6	4.5	7.3	6.4	3.6	1.8
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	3.6	2.7	1.8	0.9
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°
10983.1	0°	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1	10983.1
11011.3	2.5°	11093.1	11134.1	11205.9	11225.9	11287.7	11216.8	11177.7	11181.3	11096.8
10984.0	5°	11093.1	11186.8	11312.2	11372.2	11417.7	11414.1	11404.1	11378.6	11316.8
10929.5	7.5°	11064.1	11216.8	11389.5	11469.5	11524.1	11519.5	11542.3	11501.3	11425.9
10832.2	10°	10970.4	11103.1	11315.9	11381.3	11469.5	11471.3	11443.2	11451.3	11316.8
10476.8	12.5°	10675.9	10779.5	10965.9	11040.4	11147.7	11165.0	11134.1	11122.2	10995.0
9894.0	15°	10105.8	10165.8	10353.1	10427.7	10534.0	10519.5	10550.4	10537.7	10425.8
9106.7	17.5°	9272.2	9291.3	9487.6	9550.4	9650.4	9689.5	9643.1	9702.2	9605.8
8020.3	20°	8076.7	8179.4	8400.3	8496.7	8554.9	8624.9	8564.0	8630.3	8517.6
6702.1	22.5°	6863.9	6924.8	7124.8	7263.9	7372.1	7385.7	7363.0	7409.4	7257.5
5540.2	25°	5539.3	5640.2	5798.4	5980.2	6086.6	6152.0	6093.0	6123.0	6098.4
4296.5	27.5°	4369.3	4459.3	4578.4	4713.8	4873.8	4959.3	4912.0	4962.9	4842.9
3203.8	30°	3206.5	3251.9	3386.5	3530.1	3705.6	3809.2	3813.8	3865.6	3794.7
2244.6	32.5°	2261.0	2301.0	2383.7	2479.2	2646.5	2761.9	2743.7	2751.0	2707.4
1462.8	35°	1470.1	1523.7	1582.8	1628.2	1729.2	1856.4	1846.4	1837.3	1807.3
961.9	37.5°	982.8	1003.7	1036.4	1077.3	1142.8	1222.8	1249.1	1216.4	1203.7
649.1	40°	664.6	700.9	722.8	753.7	784.6	851.9	870.0	863.7	850.9
454.6	42.5°	471.8	500.0	527.3	557.3	573.7	615.5	650.9	640.9	635.5
345.5	45°	358.2	383.7	415.5	438.2	454.6	479.1	512.7	516.4	508.2
277.3	47.5°	287.3	310.0	335.5	363.7	382.7	398.2	427.3	438.2	432.7
233.6	50°	243.6	260.9	285.5	313.6	334.6	348.2	373.7	385.5	381.8
195.5	52.5°	207.3	228.2	250.9	274.6	300.0	313.6	337.3	354.6	351.8
161.8	55°	171.8	199.1	222.7	246.4	275.5	289.1	310.0	332.7	328.2
137.3	57.5°	150.0	172.7	197.3	220.0	250.9	269.1	288.2	311.8	310.9
112.7	60°	125.5	148.2	175.5	194.6	227.3	252.7	270.0	294.6	296.4
85.5	62.5°	100.0	128.2	149.1	175.5	205.5	235.5	251.8	276.4	285.5
65.5	65°	74.5	105.5	129.1	155.5	183.6	217.3	231.8	256.4	265.5
47.3	67.5°	55.5	79.1	109.1	131.8	163.6	192.7	210.0	232.7	239.1
28.2	70°	41.8	60.9	90.9	110.9	143.6	167.3	184.6	201.8	210.0
19.1	72.5°	24.5	45.5	71.8	95.5	123.6	143.6	156.4	170.0	175.5
9.1	75°	17.3	34.5	56.4	79.1	100.0	116.4	128.2	140.0	145.5
4.5	77.5°	9.1	25.5	44.5	63.6	78.2	91.8	103.6	112.7	116.4
3.6	80°	5.5	18.2	36.4	50.0	60.0	71.8	83.6	90.0	89.1
2.7	82.5°	3.6	14.5	26.4	36.4	43.6	52.7	60.9	65.5	65.5
1.8	85°	2.7	10.0	18.2	28.2	29.1	36.4	38.2	42.7	43.6
1.8	87.5°	1.8	6.4	10.0	16.4	15.5	19.1	20.0	22.7	24.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
10983.1
11028.6
11336.8
11443.2
11277.7
10965.9
10461.3
9582.2
8508.5
7236.6
6083.0
4873.8
3807.4
2731.9
1781.0
1201.0
852.8
630.9
507.3
430.0
380.9
350.0
328.2
310.0
296.4
284.6
264.6
239.1
208.2
173.6
143.6
115.5
88.2
64.5
42.7
23.6
0.0

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