

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: P637210

Luminaire Tested: **IFLD-S-SA3E-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637210
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19718.7 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

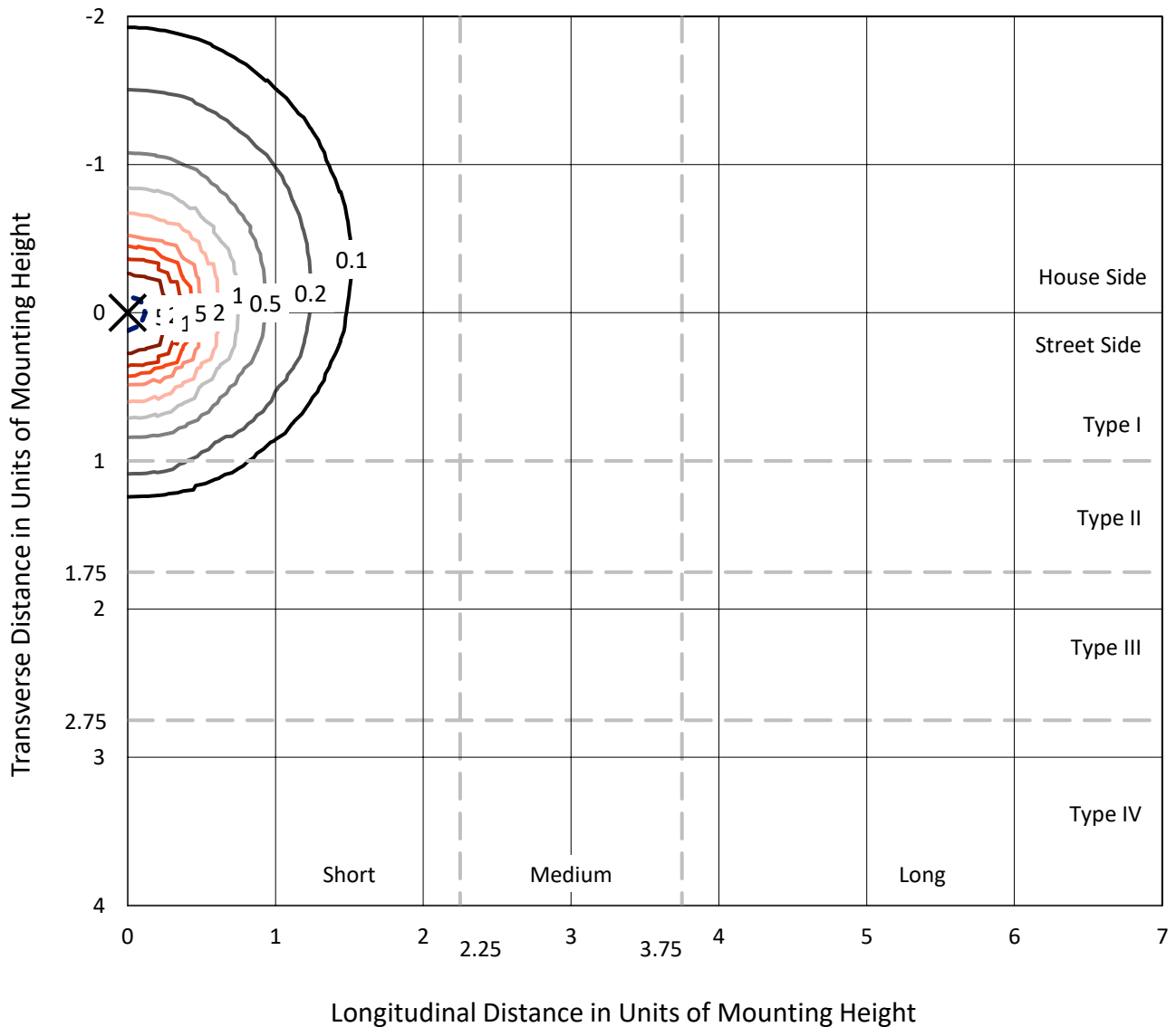
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

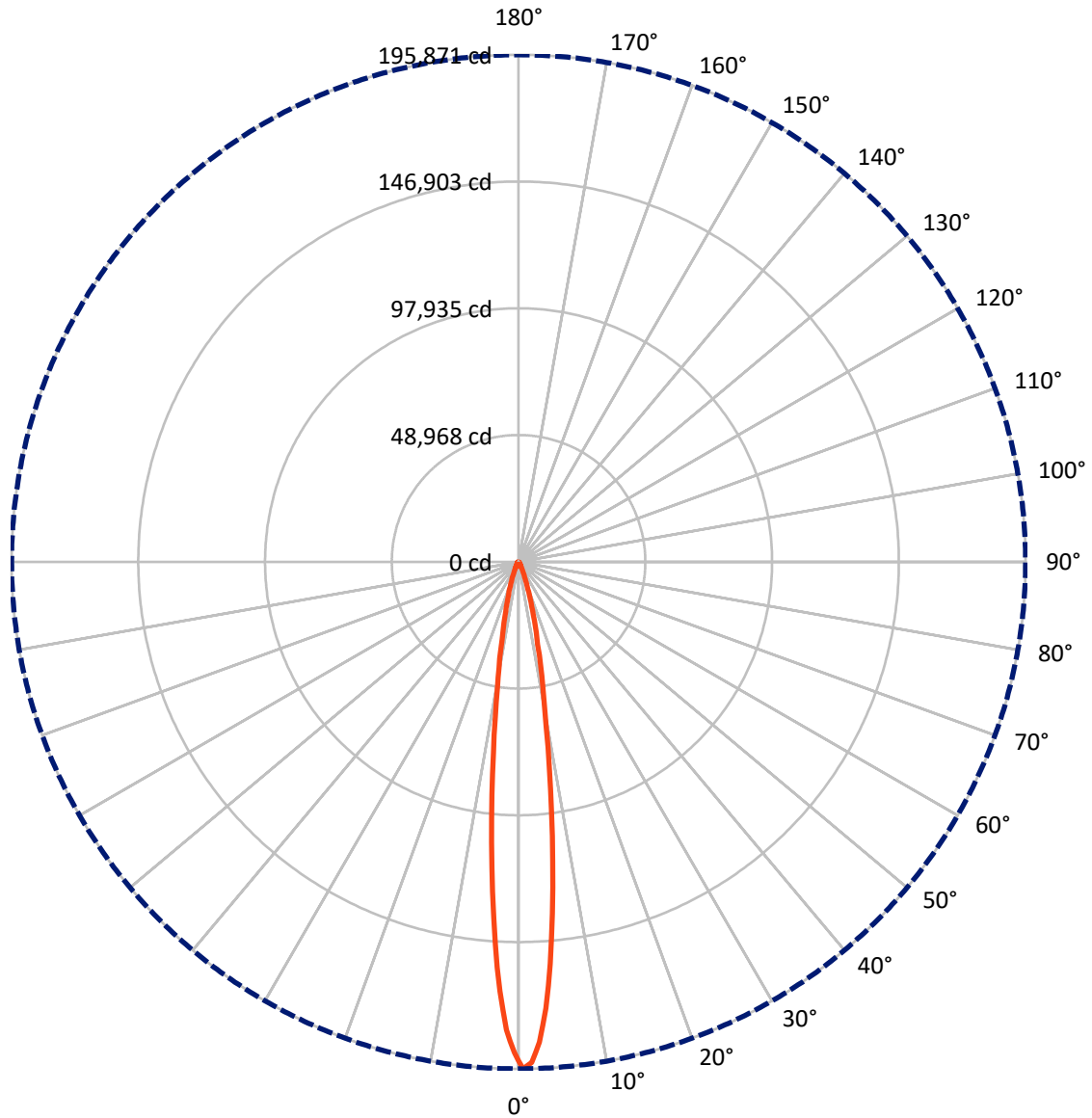
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 489.7 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	10099.5	0.0	10099.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	9619.1	0.0	9619.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	19718.7	0.0	19718.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9954.6	50.5
10°-20°	6372.9	32.3
20°-30°	1915.6	9.7
30°-40°	623.7	3.2
40°-50°	362.9	1.8
50°-60°	241.0	1.2
60°-70°	145.1	0.7
70°-80°	74.6	0.4
80°-90°	28.3	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°	19718.7	100.0
0°-180°	19718.7	100.0

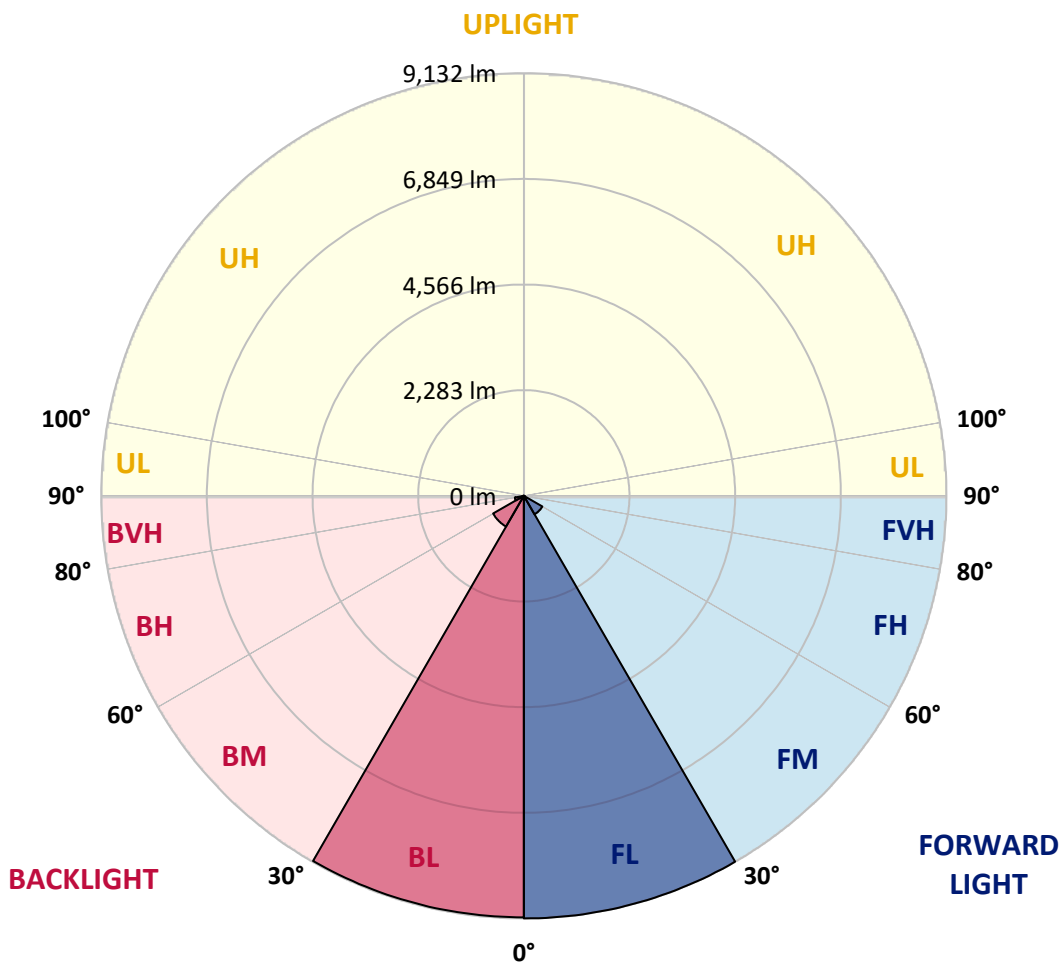


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9132.3	46.3			
FM (30°-60°)	460.8	2.3			
FH (60°-80°)	21.7	0.1			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	9110.7	46.2	B5		
BM (30°-60°)	766.8	3.9	B1/1000		
BH (60°-80°)	198.0	1.0	B1/500		G0/660
BVH (80°-90°)	24.1	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°	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5
1°	193525.3	192934.7	191409.8	192494.4	193447.9	193170.9	193151.6	193048.5	192904.6	194034.3
2°	185789.3	185407.0	183152.0	184081.9	185437.1	184449.2	185067.7	184524.3	184535.1	185883.8
3°	172748.6	172956.9	169359.6	171049.8	172933.3	170538.7	171281.7	172677.7	171215.2	170774.9
4°	155799.1	153990.8	152025.7	153743.8	154231.3	152837.5	154207.7	155917.2	153885.5	153975.7
5°	136448.5	135112.7	132786.7	133847.7	132638.5	133078.8	135132.0	135836.4	134419.0	132634.3
6°	116552.4	115603.2	112695.2	114224.3	113794.8	113545.7	116137.9	113990.2	114763.4	113683.1
7°	96948.4	95174.4	93746.2	95210.9	95305.4	94555.9	97921.3	97530.4	96123.7	95797.3
8°	80323.2	78553.5	77344.4	78435.4	79148.4	77971.5	79554.3	80593.8	79494.2	79593.0
9°	64784.8	64473.3	62791.7	64217.8	64993.1	63732.4	65484.9	65860.7	64832.0	65332.4
10°	53193.7	52830.8	51488.5	52066.2	53350.5	51847.1	53528.8	53651.2	52830.8	53064.9
12.5°	32872.4	32726.3	32689.8	32773.6	32756.4	33022.7	33452.3	32962.6	32898.2	32088.5
15°	21247.0	21463.9	21240.6	21670.1	21732.4	21983.6	21721.6	21326.5	20572.6	20198.9
17.5°	13259.8	13536.8	13919.1	14548.4	15177.7	15250.7	14902.7	14438.9	14073.7	13674.3
20°	7628.6	7763.9	7705.9	8459.7	10087.7	10530.1	10081.2	9593.7	9153.4	8749.6
22.5°	4739.9	4690.5	4780.7	5034.2	5564.6	6932.7	6565.5	6077.9	5757.9	5425.0
25°	2905.8	2959.5	2925.1	3064.7	3303.1	3883.0	3966.8	3756.3	3593.1	3421.3
27.5°	1870.6	1870.6	1885.7	1963.0	2126.2	2106.9	2553.6	2390.4	2302.3	2218.6
30°	1299.3	1303.6	1303.6	1348.7	1385.3	1320.8	1436.8	1647.3	1606.5	1542.0
32.5°	964.3	977.2	987.9	1011.6	981.5	912.8	940.7	1185.5	1161.9	1138.3
35°	734.5	745.2	771.0	783.9	740.9	698.0	672.2	872.0	882.7	876.3
37.5°	534.8	541.2	588.5	637.9	588.5	549.8	534.8	670.1	721.6	715.2
40°	410.2	412.4	420.9	476.8	476.8	446.7	451.0	500.4	590.6	590.6
42.5°	352.2	352.2	360.8	352.2	354.4	386.6	397.3	403.8	500.4	500.4
45°	305.0	305.0	309.3	287.8	266.3	332.9	341.5	343.6	420.9	431.7
47.5°	255.6	255.6	264.2	236.2	225.5	264.2	287.8	294.2	363.0	371.5
50°	189.0	191.1	216.9	193.3	199.7	204.0	249.1	253.4	307.1	326.4
52.5°	126.7	126.7	131.0	150.3	174.0	167.5	201.9	216.9	244.8	270.6
55°	103.1	103.1	100.9	96.6	128.9	139.6	148.2	180.4	199.7	231.9
57.5°	70.9	75.2	68.7	79.5	83.8	105.2	111.7	141.7	152.5	195.4
60°	8.6	10.7	15.0	58.0	55.8	70.9	83.8	111.7	124.6	150.3
62.5°	2.1	2.1	4.3	10.7	38.7	47.2	66.6	77.3	90.2	116.0
65°	0.0	0.0	2.1	4.3	8.6	25.8	34.4	45.1	64.4	81.6
67.5°	0.0	0.0	2.1	4.3	4.3	10.7	17.2	27.9	34.4	60.1
70°	0.0	0.0	2.1	4.3	4.3	8.6	10.7	12.9	23.6	32.2
72.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	10.7	10.7	21.5
75°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	10.7	8.6	8.6
77.5°	0.0	0.0	2.1	4.3	8.6	10.7	12.9	10.7	6.4	6.4
80°	0.0	0.0	2.1	6.4	10.7	15.0	17.2	12.9	6.4	4.3
82.5°	0.0	0.0	4.3	8.6	12.9	17.2	23.6	19.3	8.6	4.3
85°	0.0	0.0	2.1	6.4	12.9	17.2	34.4	23.6	10.7	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.3	12.9	8.6	4.3	2.1
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°
195870.5	0°	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5	195870.5
192730.6	1°	194077.2	194212.5	193770.1	194455.2	194214.7	192805.8	192339.7	191787.8
185091.3	2°	184524.3	185213.7	185248.1	186008.4	185997.6	184354.7	183845.7	184784.2
171668.3	3°	171148.6	171951.8	171228.1	172578.9	172173.0	170180.0	169662.4	170727.6
154688.8	4°	154227.0	154074.5	153825.4	153056.5	154003.7	152644.2	151619.7	153065.1
135001.0	5°	134730.4	134391.1	133905.7	133678.0	134382.5	133512.7	131405.8	133516.9
115637.5	6°	115779.3	114318.8	114248.0	114121.3	114192.1	111756.7	111902.7	113474.8
94674.0	7°	95674.8	95943.3	95395.6	96274.0	95604.0	93954.5	93318.8	94974.7
80026.8	8°	79468.4	79129.1	78710.3	80022.5	78860.6	77778.2	77037.3	78345.2
65414.0	9°	65291.6	64705.3	64280.1	64213.5	64393.9	62362.2	62774.5	63764.6
53193.7	10°	53213.1	52250.9	52485.0	52547.3	52349.7	51018.1	51031.0	51372.5
32625.4	12.5°	32509.4	32036.9	32155.1	32219.5	32621.1	32152.9	31491.4	31014.6
20570.5	15°	20433.0	20093.7	20787.4	21253.4	21158.9	20742.3	20430.9	19999.2
13674.3	17.5°	13547.6	13992.1	13994.3	14419.5	14462.5	14045.8	13805.3	13416.6
8893.5	20°	8861.3	9046.0	9430.5	9731.1	9905.1	9587.2	9299.5	9033.1
5545.3	22.5°	5545.3	5867.5	6108.0	6498.9	6657.8	6425.9	6221.8	6004.9
3462.1	25°	3404.1	3633.9	3833.6	4172.9	4389.9	4278.2	4091.3	3938.8
2235.7	27.5°	2270.1	2366.7	2465.5	2699.6	2925.1	2862.9	2787.7	2695.3
1576.4	30°	1600.0	1608.6	1713.8	1844.9	1995.2	2033.9	1999.5	1952.2
1157.6	32.5°	1179.1	1213.4	1262.8	1344.4	1445.4	1537.7	1520.6	1499.1
884.8	35°	910.6	962.2	1003.0	1065.2	1118.9	1207.0	1222.0	1215.6
728.1	37.5°	743.1	788.2	829.0	865.5	910.6	970.8	1018.0	1020.1
601.4	40°	616.4	657.2	710.9	738.8	771.0	816.1	874.1	878.4
509.0	42.5°	519.7	558.4	612.1	646.5	670.1	713.0	771.0	779.6
436.0	45°	446.7	470.3	526.2	567.0	590.6	618.5	680.8	689.4
375.8	47.5°	388.7	412.4	446.7	504.7	526.2	552.0	601.4	616.4
332.9	50°	341.5	365.1	395.2	446.7	478.9	500.4	541.2	562.7
289.9	52.5°	302.8	326.4	358.7	399.5	436.0	455.3	494.0	521.9
236.2	55°	253.4	294.2	317.9	354.4	403.8	420.9	451.0	487.5
206.2	57.5°	221.2	255.6	289.9	320.0	369.4	390.9	420.9	455.3
163.2	60°	186.8	219.1	259.9	285.6	332.9	360.8	393.0	425.2
124.6	62.5°	148.2	191.1	219.1	255.6	300.7	337.2	363.0	395.2
96.6	65°	109.5	156.8	189.0	227.7	270.6	309.3	330.7	365.1
68.7	67.5°	79.5	122.4	161.1	197.6	238.4	277.1	298.5	328.6
43.0	70°	62.3	90.2	133.2	165.4	208.3	240.5	264.2	283.5
27.9	72.5°	36.5	68.7	107.4	143.9	182.6	204.0	221.2	238.4
12.9	75°	23.6	53.7	88.1	120.3	148.2	167.5	182.6	197.6
6.4	77.5°	15.0	38.7	70.9	100.9	113.8	137.5	150.3	158.9
4.3	80°	8.6	30.1	62.3	81.6	92.4	107.4	120.3	131.0
4.3	82.5°	6.4	25.8	51.5	68.7	68.7	85.9	92.4	92.4
2.1	85°	4.3	21.5	40.8	64.4	51.5	64.4	60.1	60.1
2.1	87.5°	4.3	15.0	19.3	27.9	23.6	27.9	27.9	32.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
195870.5
189601.5
180808.9
165996.3
147833.4
127954.5
108917.4
90471.0
74610.4
60672.0
49048.7
30724.7
19778.0
13319.9
8940.8
5888.9
3850.8
2641.6
1920.0
1481.9
1194.1
1005.1
872.0
773.2
687.3
618.5
564.8
521.9
489.7
457.5
433.8
410.2
371.5
330.7
289.9
242.7
197.6
154.6
118.1
85.9
58.0
32.2
0.0

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