

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: P637248

Luminaire Tested: **IFLD-M-SA4D-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24721 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

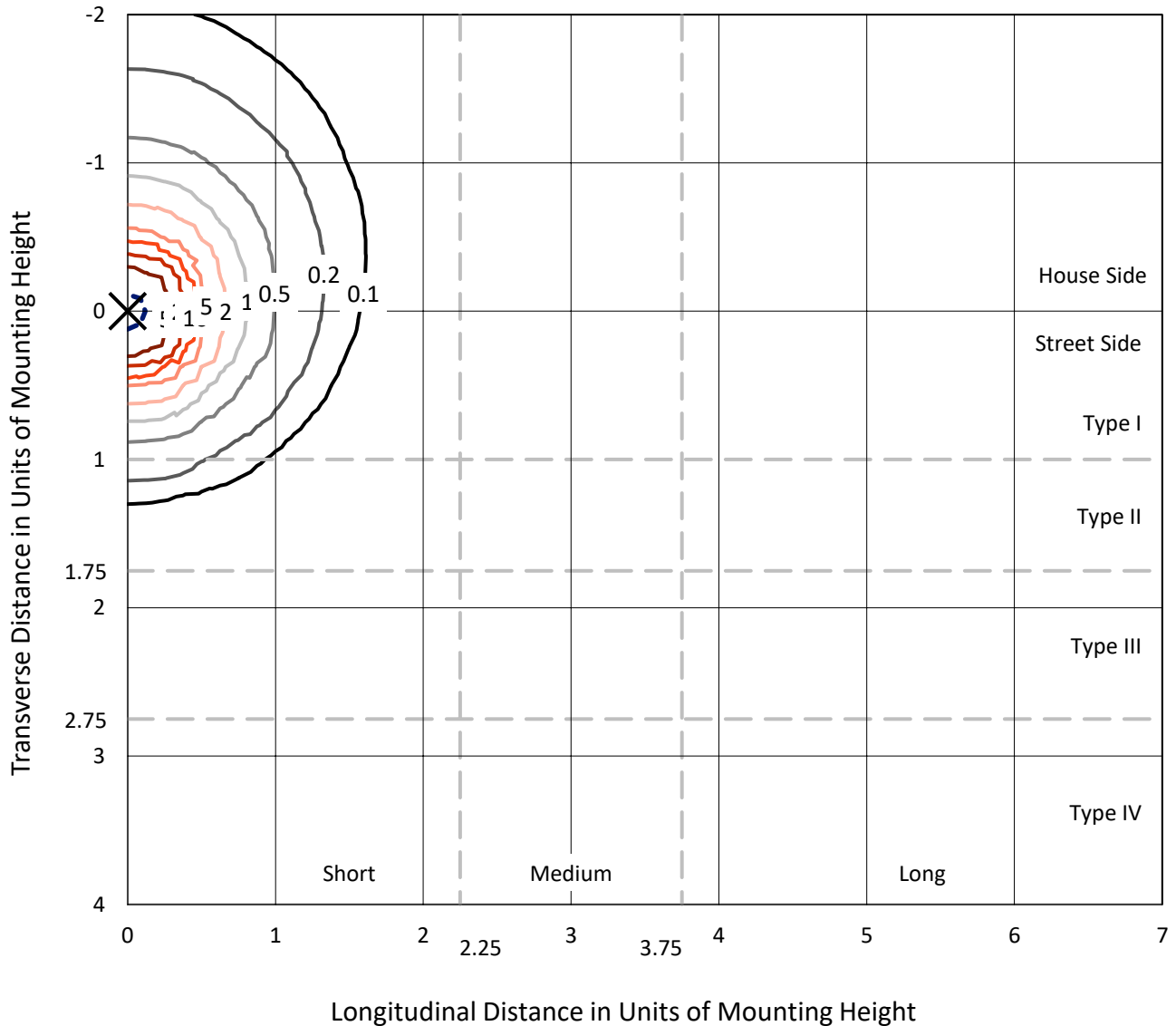
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

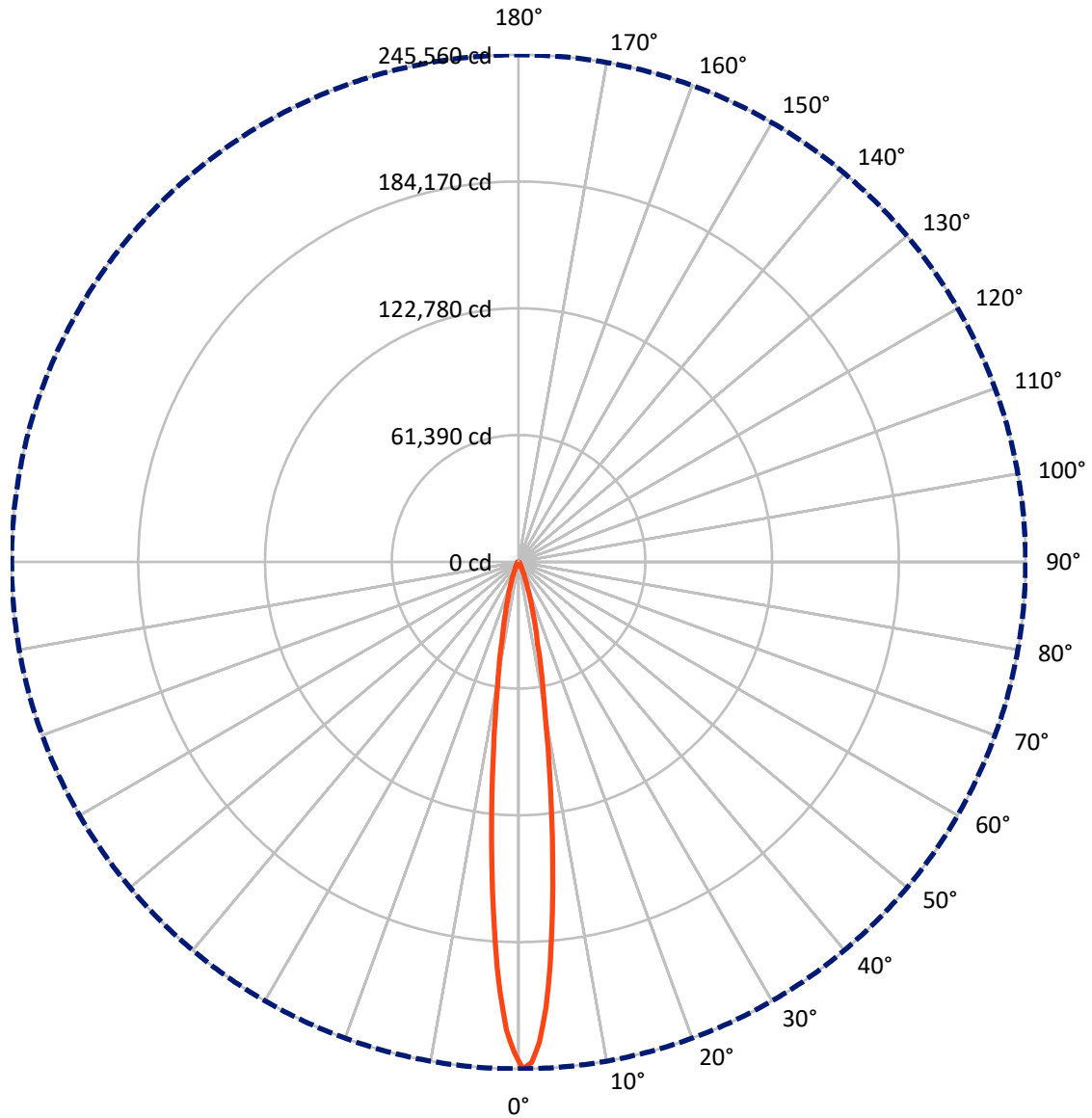
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 613.9 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	12661.7	0.0	12661.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12059.4	0.0	12059.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	24721.0	0.0	24721.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12479.9	50.5
10°-20°	7989.6	32.3
20°-30°	2401.5	9.7
30°-40°	781.9	3.2
40°-50°	455.0	1.8
50°-60°	302.2	1.2
60°-70°	181.9	0.7
70°-80°	93.5	0.4
80°-90°	35.5	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°	24721.0	100.0
0°-180°	24721.0	100.0

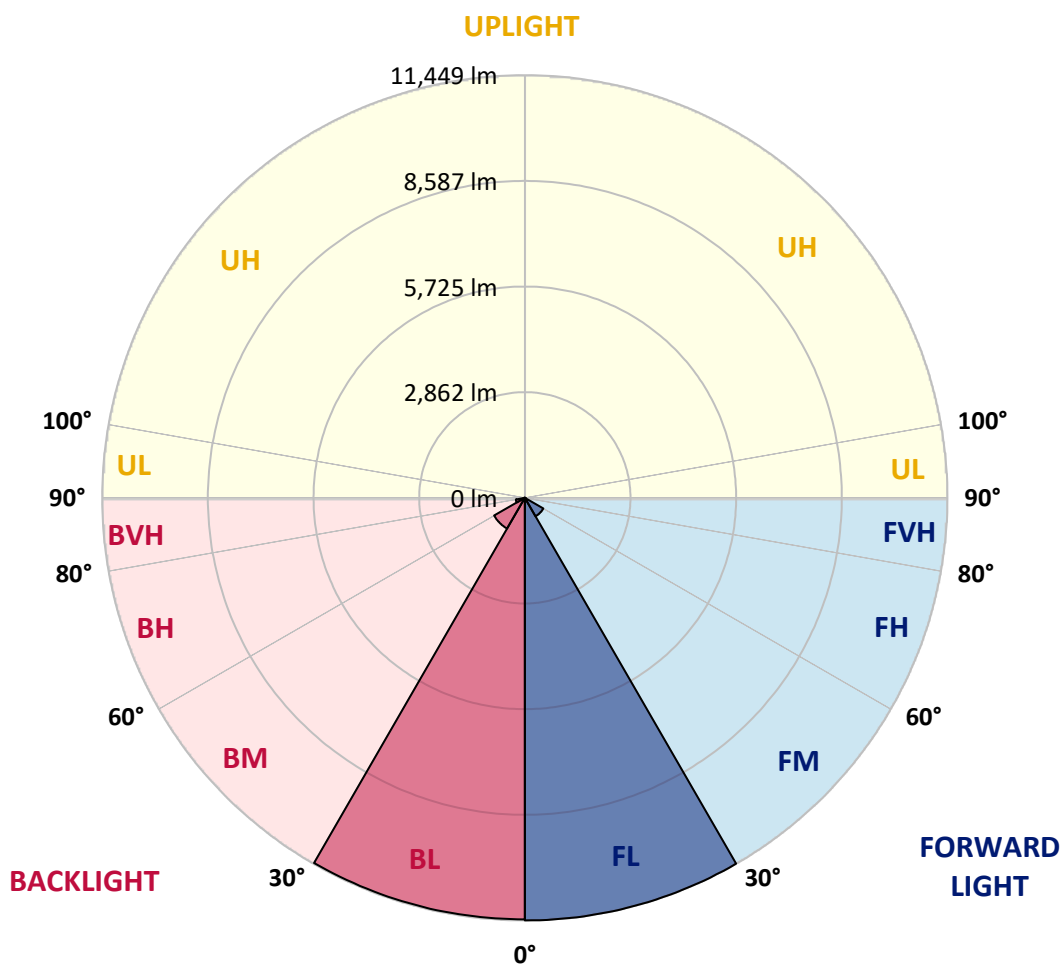


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11449.1	46.3			
FM (30°-60°)	577.7	2.3			
FH (60°-80°)	27.2	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11421.9	46.2	B5		
BM (30°-60°)	961.3	3.9	B1/1000		
BH (60°-80°)	248.2	1.0	B1/500		G0/660
BVH (80°-90°)	30.2	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°	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0
1°	242619.8	241879.4	239967.7	241327.4	242522.9	242175.5	242151.3	242022.1	241841.7	243257.9
2°	232921.4	232442.1	229615.0	230780.8	232479.8	231241.2	232016.7	231335.5	231348.9	233039.8
3°	216572.4	216833.6	212323.6	214442.6	216804.0	213801.8	214733.4	216483.6	214650.0	214098.0
4°	195323.1	193056.0	190592.3	192746.4	193357.6	191610.1	193327.9	195471.2	192924.1	193037.2
5°	171063.5	169388.8	166472.8	167802.9	166287.0	166839.0	169413.0	170296.2	168519.1	166281.6
6°	146120.1	144930.0	141284.3	143201.4	142662.9	142350.6	145600.4	142907.9	143877.2	142522.9
7°	121542.8	119318.8	117528.3	119364.6	119483.0	118543.3	122762.5	122272.5	120508.9	120099.6
8°	100700.1	98481.4	96965.5	98333.3	99227.2	97751.7	99736.1	101039.3	99660.7	99784.6
9°	81219.7	80829.3	78721.1	80508.9	81480.9	79900.4	82097.5	82568.7	81278.9	81906.3
10°	66688.2	66233.2	64550.3	65274.6	66884.8	65000.0	67108.2	67261.7	66233.2	66526.7
12.5°	41211.6	41028.5	40982.8	41087.8	41066.2	41400.1	41938.6	41324.7	41243.9	40228.9
15°	26637.0	26909.0	26629.0	27167.5	27245.6	27560.6	27232.1	26736.7	25791.6	25323.1
17.5°	16623.6	16970.9	17450.2	18239.1	19028.0	19119.5	18683.4	18101.8	17644.0	17143.2
20°	9563.8	9733.4	9660.7	10605.8	12646.7	13201.4	12638.7	12027.5	11475.5	10969.3
22.5°	5942.4	5880.5	5993.5	6311.3	6976.3	8691.4	8231.0	7619.8	7218.6	6801.3
25°	3643.0	3710.3	3667.2	3842.2	4141.1	4868.1	4973.1	4709.2	4504.6	4289.2
27.5°	2345.2	2345.2	2364.0	2461.0	2665.6	2641.4	3201.4	2996.8	2886.4	2781.4
30°	1629.0	1634.4	1634.4	1690.9	1736.7	1655.9	1801.3	2065.2	2014.0	1933.2
32.5°	1208.9	1225.1	1238.6	1268.2	1230.5	1144.3	1179.3	1486.3	1456.7	1427.0
35°	920.8	934.3	966.6	982.8	928.9	875.1	842.8	1093.2	1106.6	1098.5
37.5°	670.4	678.5	737.7	799.7	737.7	689.3	670.4	840.1	904.7	896.6
40°	514.3	517.0	527.7	597.7	597.7	560.0	565.4	627.4	740.4	740.4
42.5°	441.6	441.6	452.3	441.6	444.3	484.7	498.1	506.2	627.4	627.4
45°	382.3	382.3	387.7	360.8	333.9	417.3	428.1	430.8	527.7	541.2
47.5°	320.4	320.4	331.2	296.2	282.7	331.2	360.8	368.9	455.0	465.8
50°	236.9	239.6	271.9	242.3	250.4	255.8	312.3	317.7	385.0	409.3
52.5°	158.9	158.9	164.2	188.5	218.1	210.0	253.1	271.9	306.9	339.3
55°	129.2	129.2	126.5	121.2	161.6	175.0	185.8	226.2	250.4	290.8
57.5°	88.9	94.2	86.2	99.6	105.0	131.9	140.0	177.7	191.2	245.0
60°	10.8	13.5	18.8	72.7	70.0	88.9	105.0	140.0	156.2	188.5
62.5°	2.7	2.7	5.4	13.5	48.5	59.2	83.5	96.9	113.1	145.4
65°	0.0	0.0	2.7	5.4	10.8	32.3	43.1	56.5	80.8	102.3
67.5°	0.0	0.0	2.7	5.4	5.4	13.5	21.5	35.0	43.1	75.4
70°	0.0	0.0	2.7	5.4	5.4	10.8	13.5	16.2	29.6	40.4
72.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	13.5	13.5	26.9
75°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	13.5	10.8	10.8
77.5°	0.0	0.0	2.7	5.4	10.8	13.5	16.2	13.5	8.1	8.1
80°	0.0	0.0	2.7	8.1	13.5	18.8	21.5	16.2	8.1	5.4
82.5°	0.0	0.0	5.4	10.8	16.2	21.5	29.6	24.2	10.8	5.4
85°	0.0	0.0	2.7	8.1	16.2	21.5	43.1	29.6	13.5	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.4	16.2	10.8	5.4	2.7
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°
245560.0	0°	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0	245560.0
241623.6	1°	243311.8	243481.4	242926.8	243785.7	243484.1	241717.8	241133.5	240441.6
232046.3	2°	231335.5	232199.8	232242.9	233196.0	233182.5	231122.8	230484.6	231661.3
215218.1	3°	214566.5	215573.5	214666.1	216359.7	215850.8	213352.2	212703.3	214038.8
193931.1	4°	193352.2	193161.0	192848.7	191884.8	193072.2	191367.8	190083.5	191895.5
169248.8	5°	168909.5	168484.1	167875.6	167590.2	168473.3	167382.9	164741.5	167388.3
144973.1	6°	145150.8	143319.9	143231.0	143072.2	143161.0	140107.7	140290.8	142261.7
118691.4	7°	119946.1	120282.7	119596.1	120697.4	119857.3	117789.4	116992.5	119068.4
100328.5	8°	99628.4	99203.0	98678.0	100323.1	98866.4	97509.4	96580.5	98220.2
82008.6	9°	81855.1	81120.1	80587.0	80503.5	80729.7	78182.5	78699.5	79940.8
66688.2	10°	66712.4	65506.2	65799.7	65877.8	65630.0	63960.7	63976.8	64405.0
40902.0	12.5°	40756.6	40164.2	40312.3	40393.1	40896.6	40309.6	39480.3	38882.6
25788.9	15°	25616.6	25191.2	26060.8	26645.1	26526.7	26004.3	25613.9	25072.7
17143.2	17.5°	16984.4	17541.7	17544.4	18077.5	18131.4	17609.0	17307.5	16820.1
11149.7	20°	11109.3	11340.9	11822.8	12199.8	12417.9	12019.4	11658.6	11324.7
6952.1	22.5°	6952.1	7356.0	7657.5	8147.5	8346.8	8056.0	7800.2	7528.3
4340.3	25°	4267.6	4555.7	4806.1	5231.6	5503.5	5363.5	5129.2	4938.1
2802.9	27.5°	2846.0	2967.2	3091.0	3384.5	3667.2	3589.1	3494.9	3379.1
1976.3	30°	2005.9	2016.7	2148.6	2312.9	2501.3	2549.8	2506.7	2447.5
1451.3	32.5°	1478.2	1521.3	1583.2	1685.5	1812.1	1927.8	1906.3	1879.4
1109.3	35°	1141.6	1206.2	1257.4	1335.5	1402.8	1513.2	1532.0	1524.0
912.8	37.5°	931.6	988.2	1039.3	1085.1	1141.6	1217.0	1276.3	1278.9
753.9	40°	772.8	823.9	891.2	926.2	966.6	1023.2	1095.9	1101.2
638.1	42.5°	651.6	700.1	767.4	810.4	840.1	893.9	966.6	977.4
546.6	45°	560.0	589.7	659.7	710.8	740.4	775.4	853.5	864.3
471.2	47.5°	487.3	517.0	560.0	632.7	659.7	692.0	753.9	772.8
417.3	50°	428.1	457.7	495.4	560.0	600.4	627.4	678.5	705.4
363.5	52.5°	379.6	409.3	449.6	500.8	546.6	570.8	619.3	654.3
296.2	55°	317.7	368.9	398.5	444.3	506.2	527.7	565.4	611.2
258.5	57.5°	277.3	320.4	363.5	401.2	463.1	490.0	527.7	570.8
204.6	60°	234.2	274.6	325.8	358.1	417.3	452.3	492.7	533.1
156.2	62.5°	185.8	239.6	274.6	320.4	377.0	422.7	455.0	495.4
121.2	65°	137.3	196.6	236.9	285.4	339.3	387.7	414.6	457.7
86.2	67.5°	99.6	153.5	201.9	247.7	298.9	347.3	374.3	412.0
53.9	70°	78.1	113.1	166.9	207.3	261.2	301.6	331.2	355.4
35.0	72.5°	45.8	86.2	134.6	180.4	228.9	255.8	277.3	298.9
16.2	75°	29.6	67.3	110.4	150.8	185.8	210.0	228.9	247.7
8.1	77.5°	18.8	48.5	88.9	126.5	142.7	172.3	188.5	199.2
5.4	80°	10.8	37.7	78.1	102.3	115.8	134.6	150.8	164.2
5.4	82.5°	8.1	32.3	64.6	86.2	86.2	107.7	115.8	115.8
2.7	85°	5.4	26.9	51.2	80.8	64.6	80.8	75.4	75.4
2.7	87.5°	5.4	18.8	24.2	35.0	29.6	35.0	35.0	40.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
245560.0
237700.6
226677.4
208107.2
185336.6
160414.6
136548.2
113422.2
93538.0
76063.5
61491.7
38519.1
24795.4
16699.0
11208.9
7382.9
4827.7
3311.8
2407.1
1857.8
1497.0
1260.1
1093.2
969.3
861.6
775.4
708.1
654.3
613.9
573.5
543.9
514.3
465.8
414.6
363.5
304.3
247.7
193.9
148.1
107.7
72.7
40.4
0.0

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