

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: P637059

Luminaire Tested: **IFLD-S-SA2D-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14162.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

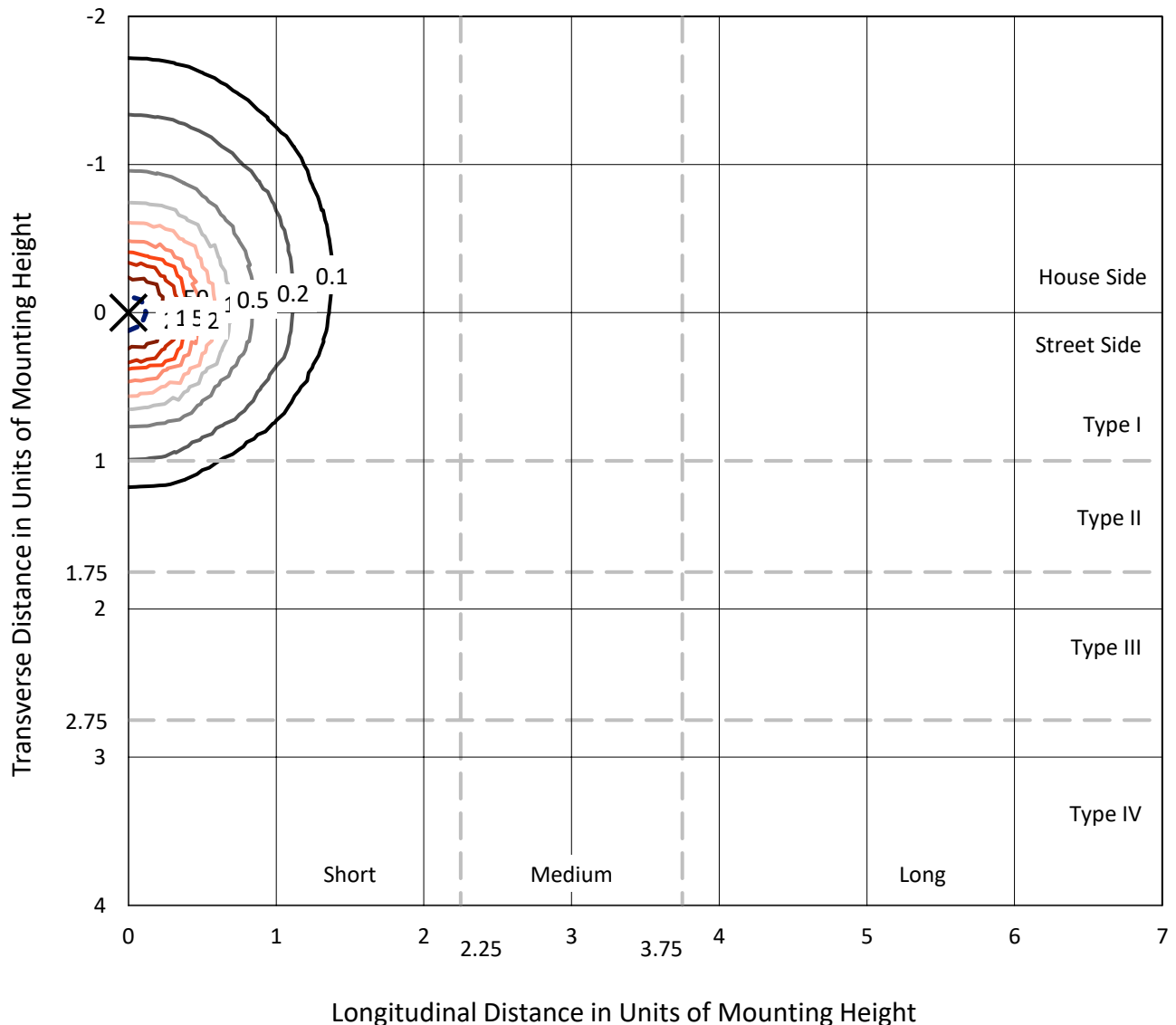
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

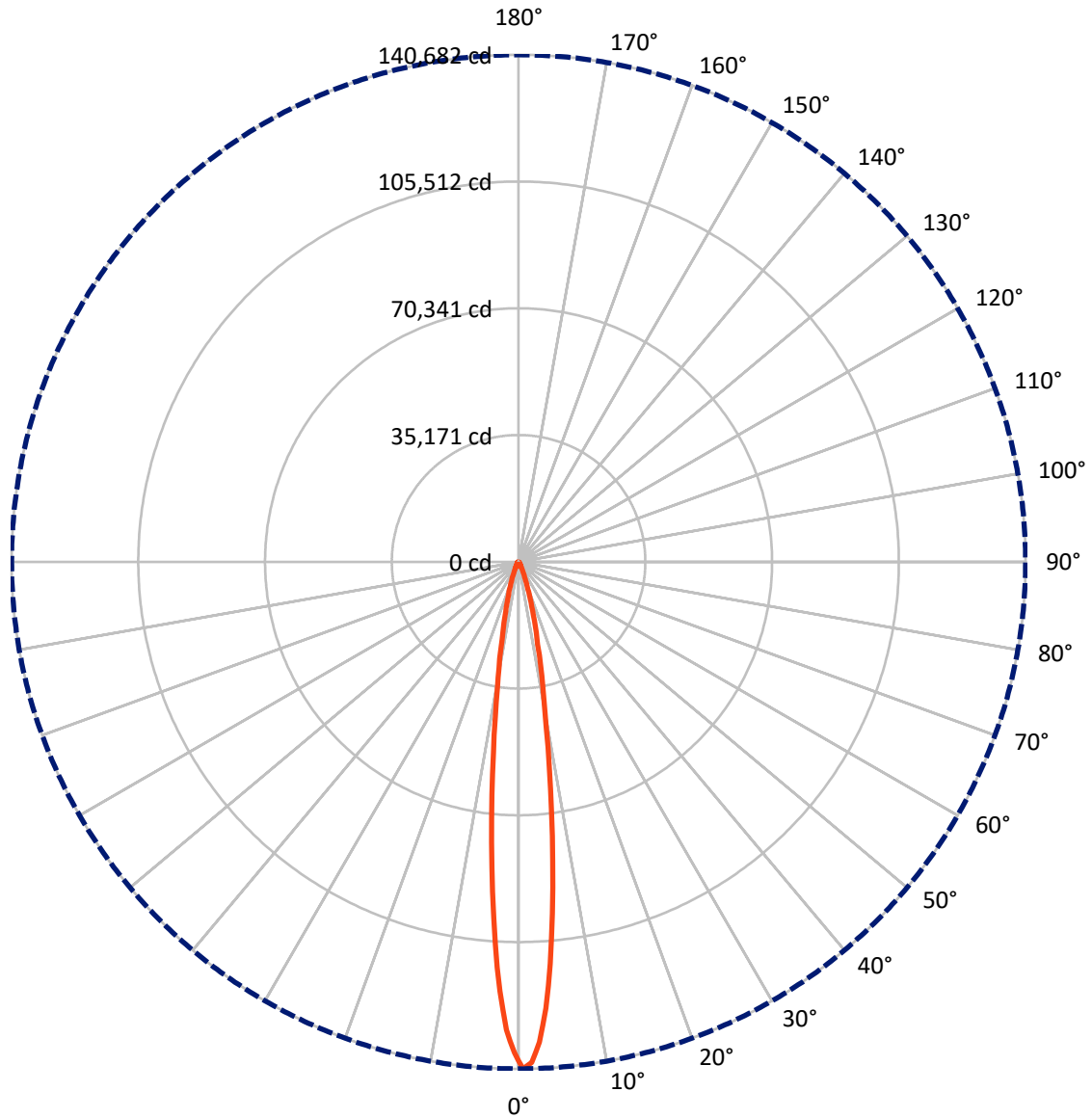
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 351.7 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	7253.9	0.0	7253.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6908.9	0.0	6908.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	14162.8	0.0	14162.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7149.8	50.5
10°-20°	4577.3	32.3
20°-30°	1375.8	9.7
30°-40°	448.0	3.2
40°-50°	260.6	1.8
50°-60°	173.1	1.2
60°-70°	104.2	0.7
70°-80°	53.6	0.4
80°-90°	20.4	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°	14162.8	100.0
0°-180°	14162.8	100.0

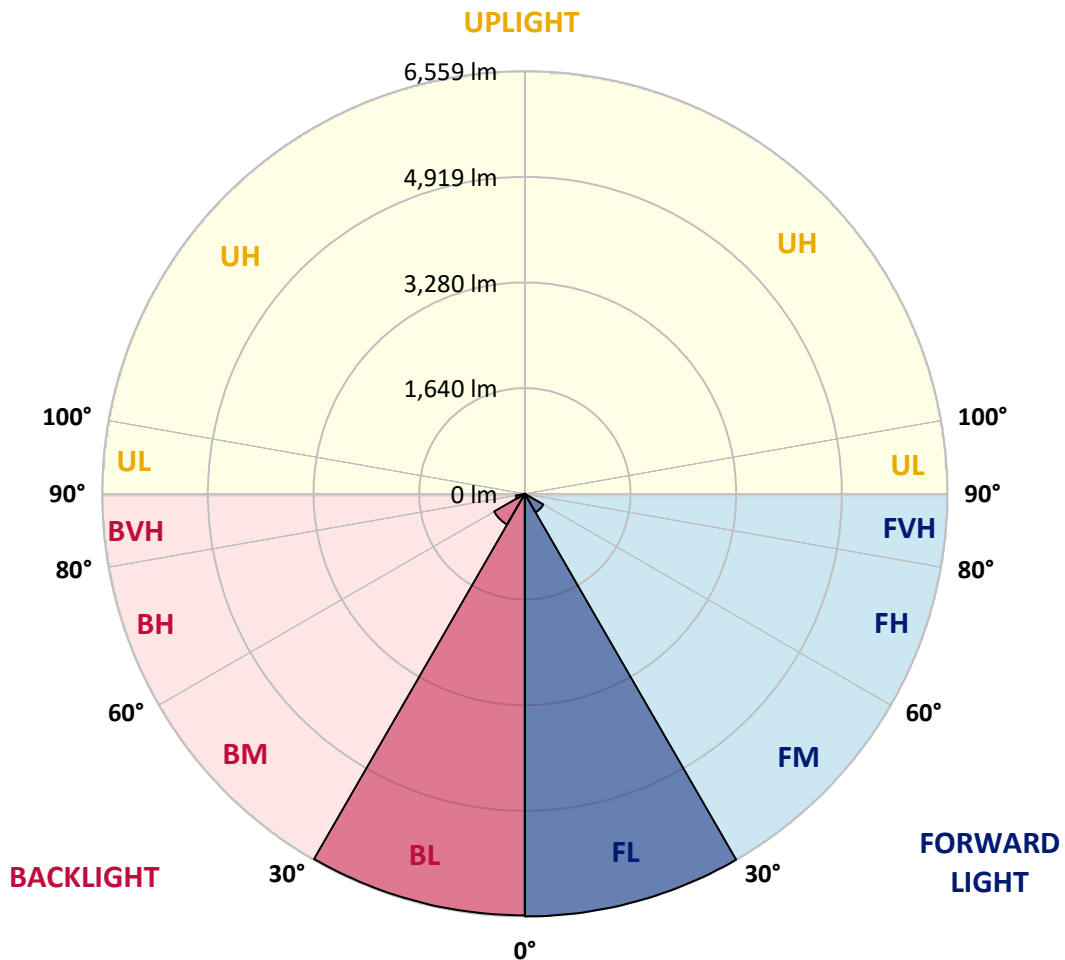


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6559.2	46.3			
FM (30°-60°)	331.0	2.3			
FH (60°-80°)	15.6	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6543.7	46.2	B5		
BM (30°-60°)	550.8	3.9	B1/1000		
BH (60°-80°)	142.2	1.0	B1/500		G0/660
BVH (80°-90°)	17.3	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°	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2
1°	138997.7	138573.5	137478.3	138257.3	138942.2	138743.2	138729.3	138655.2	138551.9	139363.3
2°	133441.4	133166.8	131547.2	132215.1	133188.4	132478.9	132923.1	132532.9	132540.6	133509.3
3°	124075.1	124224.7	121640.9	122854.9	124207.7	122487.8	123021.5	124024.2	122973.7	122657.5
4°	111901.2	110602.4	109191.0	110425.0	110775.2	109774.1	110758.2	111986.1	110526.8	110591.6
5°	98002.9	97043.4	95372.8	96134.8	95266.4	95582.6	97057.3	97563.2	96545.2	95263.3
6°	83712.7	83030.9	80942.3	82040.6	81732.0	81553.1	83415.0	81872.4	82427.7	81651.8
7°	69632.3	68358.1	67332.3	68384.4	68452.2	67913.9	70331.1	70050.3	69039.9	68805.5
8°	57691.4	56420.3	55551.9	56335.5	56847.6	56002.3	57139.2	57885.8	57096.0	57166.9
9°	46531.0	46307.4	45099.6	46123.8	46680.7	45775.2	47033.9	47303.9	46565.0	46924.4
10°	38205.9	37945.2	36981.1	37396.1	38318.5	37238.7	38446.5	38534.5	37945.2	38113.3
12.5°	23610.3	23505.4	23479.2	23539.3	23527.0	23718.3	24026.8	23675.1	23628.8	23047.2
15°	15260.5	15416.3	15255.8	15564.3	15609.1	15789.5	15601.4	15317.5	14776.1	14507.7
17.5°	9523.7	9722.7	9997.3	10449.2	10901.2	10953.7	10703.8	10370.6	10108.3	9821.4
20°	5479.1	5576.3	5534.7	6076.1	7245.4	7563.1	7240.7	6890.6	6574.4	6284.4
22.5°	3404.4	3368.9	3433.7	3615.7	3996.7	4979.4	4715.6	4365.4	4135.6	3896.5
25°	2087.1	2125.6	2101.0	2201.2	2372.4	2788.9	2849.1	2697.9	2580.7	2457.3
27.5°	1343.6	1343.6	1354.4	1409.9	1527.1	1513.2	1834.1	1716.9	1653.6	1593.5
30°	933.2	936.3	936.3	968.7	994.9	948.7	1032.0	1183.1	1153.8	1107.6
32.5°	692.6	701.9	709.6	726.5	704.9	655.6	675.6	851.5	834.5	817.6
35°	527.6	535.3	553.8	563.0	532.2	501.3	482.8	626.3	634.0	629.4
37.5°	384.1	388.7	422.7	458.1	422.7	394.9	384.1	481.3	518.3	513.7
40°	294.6	296.2	302.3	342.4	342.4	320.9	323.9	359.4	424.2	424.2
42.5°	253.0	253.0	259.1	253.0	254.5	277.7	285.4	290.0	359.4	359.4
45°	219.0	219.0	222.1	206.7	191.3	239.1	245.3	246.8	302.3	310.1
47.5°	183.6	183.6	189.7	169.7	162.0	189.7	206.7	211.3	260.7	266.9
50°	135.7	137.3	155.8	138.8	143.5	146.5	178.9	182.0	220.6	234.5
52.5°	91.0	91.0	94.1	108.0	124.9	120.3	145.0	155.8	175.9	194.4
55°	74.0	74.0	72.5	69.4	92.6	100.3	106.4	129.6	143.5	166.6
57.5°	50.9	54.0	49.4	57.1	60.2	75.6	80.2	101.8	109.5	140.4
60°	6.2	7.7	10.8	41.6	40.1	50.9	60.2	80.2	89.5	108.0
62.5°	1.5	1.5	3.1	7.7	27.8	33.9	47.8	55.5	64.8	83.3
65°	0.0	0.0	1.5	3.1	6.2	18.5	24.7	32.4	46.3	58.6
67.5°	0.0	0.0	1.5	3.1	3.1	7.7	12.3	20.1	24.7	43.2
70°	0.0	0.0	1.5	3.1	3.1	6.2	7.7	9.3	17.0	23.1
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	7.7	15.4
75°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	6.2	6.2
77.5°	0.0	0.0	1.5	3.1	6.2	7.7	9.3	7.7	4.6	4.6
80°	0.0	0.0	1.5	4.6	7.7	10.8	12.3	9.3	4.6	3.1
82.5°	0.0	0.0	3.1	6.2	9.3	12.3	17.0	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.3	12.3	24.7	17.0	7.7	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	9.3	6.2	3.1	1.5
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°
140682.2	0°	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2	140682.2
138426.9	1°	139394.1	139491.3	139173.5	139665.6	139492.8	138480.9	138146.2	137749.8	137179.0
132940.1	2°	132532.9	133028.0	133052.7	133598.8	133591.1	132411.0	132045.4	132719.5	131403.7
123299.2	3°	122925.9	123502.8	122982.9	123953.2	123661.7	122230.2	121858.4	122623.5	121667.1
111103.7	4°	110772.1	110662.6	110483.6	109931.4	110611.7	109635.2	108899.4	109937.6	107892.2
96963.2	5°	96768.8	96525.1	96176.5	96013.0	96518.9	95894.2	94381.0	95897.3	92249.2
83055.6	6°	83157.4	82108.4	82057.5	81966.5	82017.4	80268.2	80373.1	81502.2	78466.5
67998.7	7°	68717.5	68910.4	68517.0	69147.9	68666.6	67482.0	67025.4	68214.7	66069.0
57478.5	8°	57077.5	56833.7	56532.9	57475.4	56640.9	55863.5	55331.3	56270.7	54677.2
46983.0	9°	46895.1	46474.0	46168.5	46120.7	46250.3	44791.0	45087.2	45798.3	44838.9
38205.9	10°	38219.8	37528.7	37696.9	37741.6	37599.7	36643.3	36652.5	36897.8	35744.0
23432.9	12.5°	23349.6	23010.2	23095.1	23141.3	23429.8	23093.5	22618.4	22276.0	22103.2
14774.5	15°	14675.8	14432.1	14930.3	15265.1	15197.2	14898.0	14674.3	14364.2	14114.3
9821.4	17.5°	9730.4	10049.7	10051.3	10356.7	10387.5	10088.3	9915.5	9636.3	9648.7
6387.7	20°	6364.6	6497.2	6773.3	6989.3	7114.2	6885.9	6679.2	6488.0	6407.8
3982.9	22.5°	3982.9	4214.2	4387.0	4667.8	4781.9	4615.3	4468.8	4313.0	4217.3
2486.6	25°	2444.9	2610.0	2753.5	2997.2	3153.0	3072.8	2938.6	2829.0	2778.1
1605.8	27.5°	1630.5	1699.9	1770.8	1939.0	2101.0	2056.2	2002.2	1935.9	1912.8
1132.2	30°	1149.2	1155.4	1231.0	1325.1	1433.0	1460.8	1436.1	1402.2	1376.0
831.4	32.5°	846.9	871.5	907.0	965.6	1038.1	1104.5	1092.1	1076.7	1064.4
635.5	35°	654.0	691.1	720.4	765.1	803.7	866.9	877.7	873.1	863.8
522.9	37.5°	533.7	566.1	595.4	621.6	654.0	697.2	731.2	732.7	723.5
431.9	40°	442.7	472.0	510.6	530.6	553.8	586.2	627.8	630.9	627.8
365.6	42.5°	373.3	401.1	439.6	464.3	481.3	512.1	553.8	559.9	553.8
313.1	45°	320.9	337.8	377.9	407.2	424.2	444.3	489.0	495.2	493.6
269.9	47.5°	279.2	296.2	320.9	362.5	377.9	396.4	431.9	442.7	442.7
239.1	50°	245.3	262.2	283.8	320.9	344.0	359.4	388.7	404.1	404.1
208.2	52.5°	217.5	234.5	257.6	286.9	313.1	327.0	354.8	374.8	374.8
169.7	55°	182.0	211.3	228.3	254.5	290.0	302.3	323.9	350.2	350.2
148.1	57.5°	158.9	183.6	208.2	229.8	265.3	280.7	302.3	327.0	330.1
117.2	60°	134.2	157.3	186.6	205.2	239.1	259.1	282.3	305.4	311.6
89.5	62.5°	106.4	137.3	157.3	183.6	216.0	242.2	260.7	283.8	293.1
69.4	65°	78.7	112.6	135.7	163.5	194.4	222.1	237.6	262.2	268.4
49.4	67.5°	57.1	87.9	115.7	141.9	171.2	199.0	214.4	236.0	240.6
30.9	70°	44.7	64.8	95.6	118.8	149.6	172.8	189.7	203.6	208.2
20.1	72.5°	26.2	49.4	77.1	103.4	131.1	146.5	158.9	171.2	174.3
9.3	75°	17.0	38.6	63.2	86.4	106.4	120.3	131.1	141.9	143.5
4.6	77.5°	10.8	27.8	50.9	72.5	81.8	98.7	108.0	114.1	111.1
3.1	80°	6.2	21.6	44.7	58.6	66.3	77.1	86.4	94.1	86.4
3.1	82.5°	4.6	18.5	37.0	49.4	49.4	61.7	66.3	66.3	63.2
1.5	85°	3.1	15.4	29.3	46.3	37.0	46.3	43.2	43.2	43.2
1.5	87.5°	3.1	10.8	13.9	20.1	17.0	20.1	20.1	23.1	23.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
140682.2
136179.5
129864.2
119225.3
106179.9
91902.1
78228.9
64979.9
53588.2
43577.1
35228.8
22067.7
14205.3
9566.9
6421.6
4229.7
2765.8
1897.3
1379.0
1064.4
857.7
721.9
626.3
555.3
493.6
444.3
405.7
374.8
351.7
328.6
311.6
294.6
266.9
237.6
208.2
174.3
141.9
111.1
84.8
61.7
41.6
23.1
0.0

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