

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: P637536

Luminaire Tested: **IFLD-M-SA4B-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15803 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
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



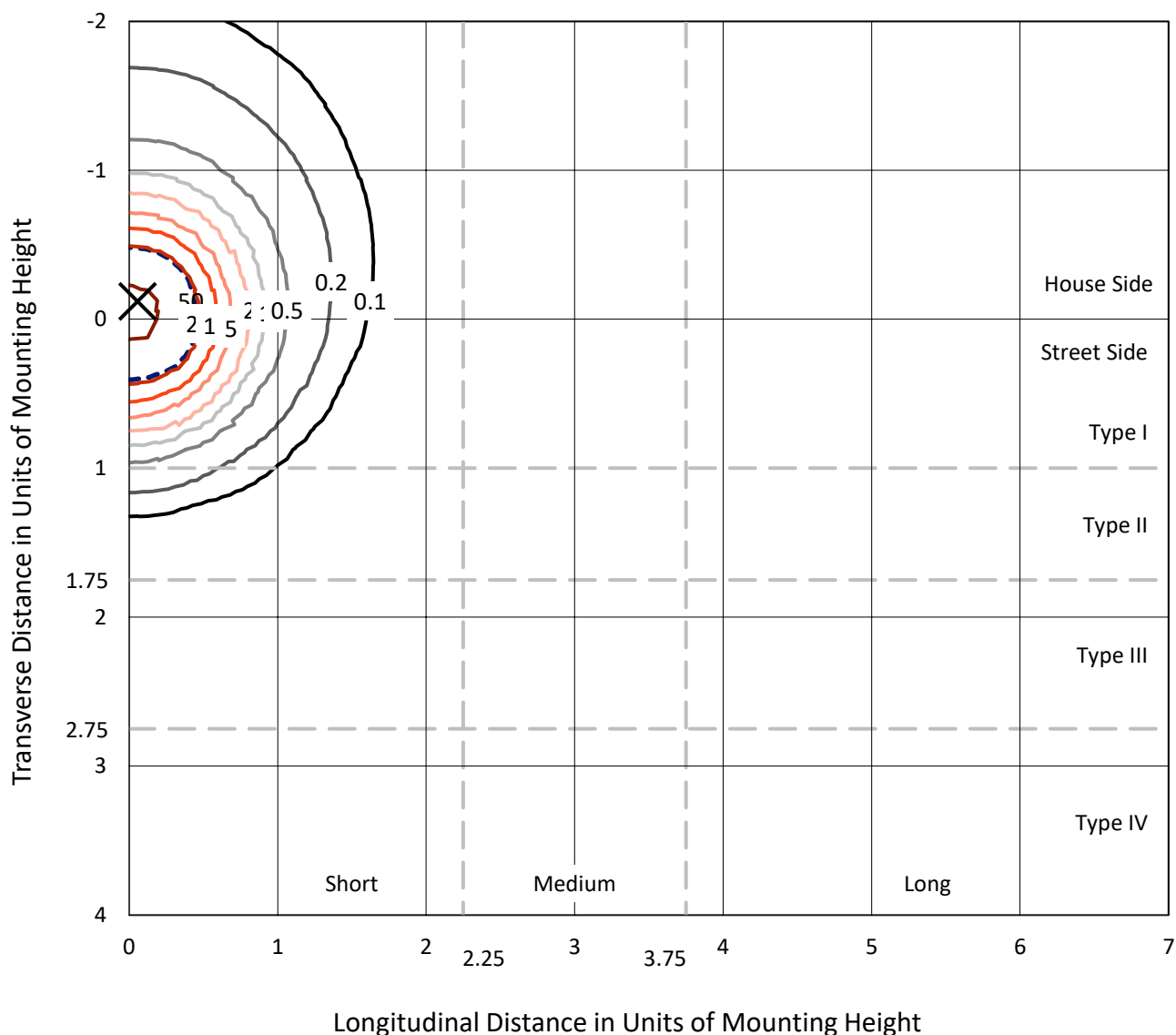
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

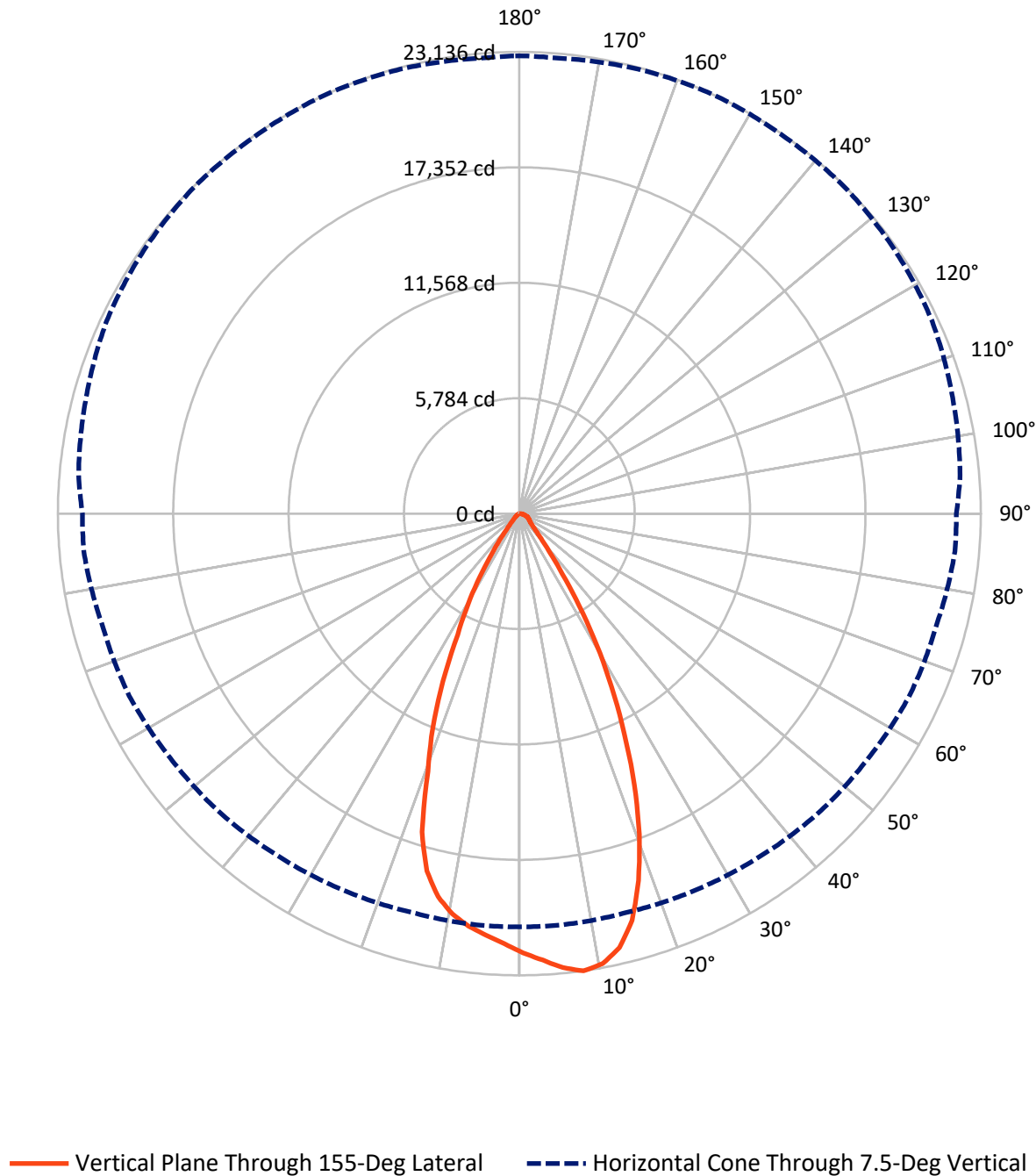


Based on 20 foot mounting height. Maximum calculated value = 55.9 fc

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	8723.9	0.0	8723.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7079.2	0.0	7079.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	15803.0	0.0	15803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2099.3	13.3
10°-20°	5443.4	34.4
20°-30°	4987.7	31.6
30°-40°	2015.0	12.8
40°-50°	591.1	3.7
50°-60°	330.5	2.1
60°-70°	200.7	1.3
70°-80°	102.0	0.6
80°-90°	33.4	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°	15803.0	100.0
0°-180°	15803.0	100.0

Coefficient of Utilization



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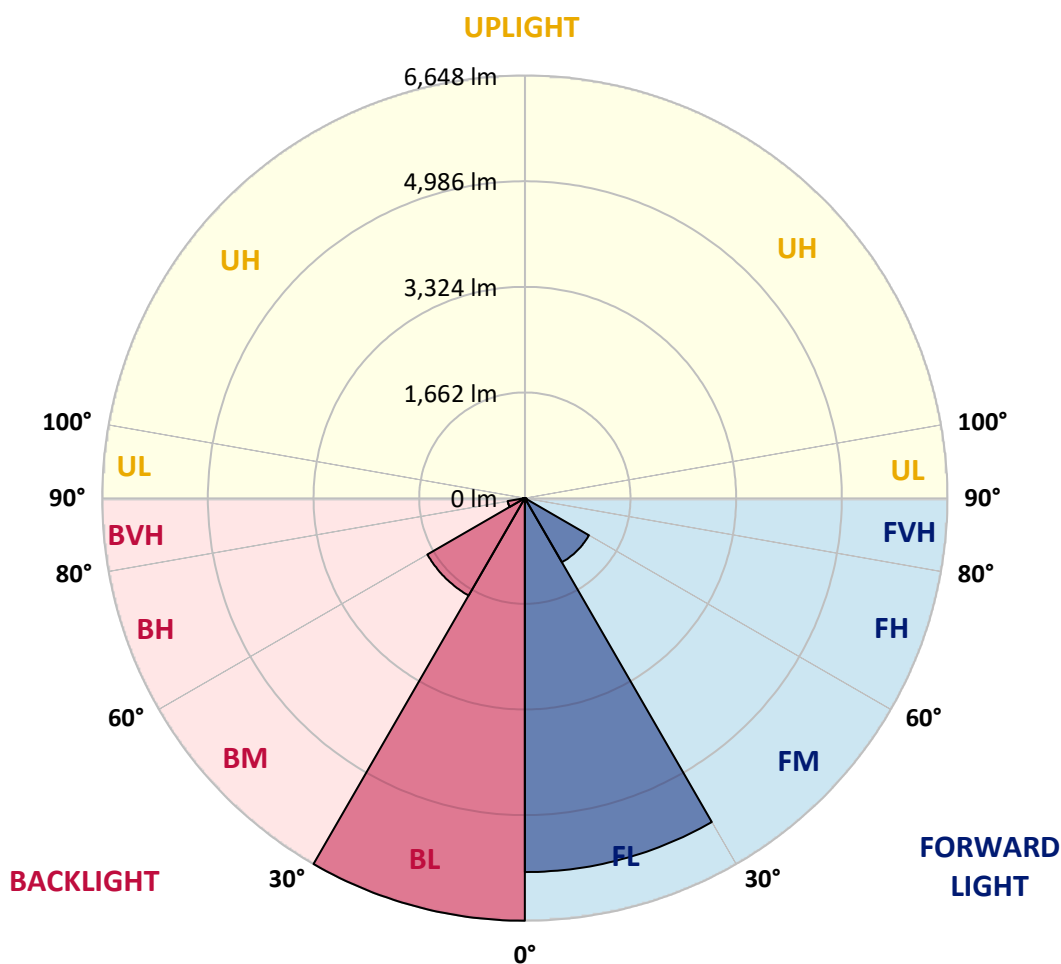
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5882.3	37.2			
FM	(30°-60°)	1165.8	7.4			
FH	(60°-80°)	28.2	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6648.0	42.1	B5		
BM	(30°-60°)	1770.9	11.2	B2/2500		
BH	(60°-80°)	274.5	1.7	B1/500		G1/500
BVH	(80°-90°)	30.5	0.2			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9
2.5°	21537.4	21610.3	21464.5	21561.1	21635.8	21814.4	21829.0	21891.0	21912.8	22075.0
5°	21129.2	21185.7	21067.3	21196.7	21302.4	21460.9	21583.0	21754.3	21849.0	22040.4
7.5°	20704.7	20717.4	20693.7	20830.4	20988.9	21207.6	21358.8	21583.0	21641.3	21914.6
10°	20190.8	20097.8	20143.4	20343.8	20580.7	20916.0	21019.9	21244.0	21347.9	21626.7
12.5°	19370.7	19418.1	19361.6	19616.8	19813.6	20194.4	20303.8	20529.7	20728.3	20974.3
15°	18215.4	18188.1	18302.9	18501.5	18714.7	19017.2	19194.0	19440.0	19591.2	19846.4
17.5°	15618.7	15711.6	16185.4	16682.9	17120.2	17473.8	17685.1	17889.2	17998.6	18275.6
20°	13488.5	13371.8	13435.6	13716.2	14960.9	15502.1	15724.4	15773.6	15819.1	16037.8
22.5°	11106.7	11068.5	11281.7	11596.9	11892.1	13140.4	13442.9	13328.1	13422.9	13628.8
25°	8247.6	8440.8	8630.3	9235.3	9618.0	10230.2	10804.2	10855.3	10889.9	11019.3
27.5°	6713.2	6645.8	6642.2	6811.7	7376.6	7886.8	8375.2	8488.1	8468.1	8592.0
30°	5277.3	5255.4	5178.9	5219.0	5162.5	5616.2	5845.8	6310.5	6285.0	6288.7
32.5°	3806.7	3724.7	3693.7	3753.9	3695.6	3653.7	3854.1	4378.9	4369.8	4406.3
35°	2303.4	2292.4	2317.9	2370.8	2254.2	2250.5	2292.4	2786.3	2846.4	2904.7
37.5°	1271.9	1261.0	1281.1	1476.0	1437.8	1403.1	1414.1	1674.7	1847.8	1891.5
40°	838.2	836.4	851.0	885.6	951.2	938.5	943.9	1060.6	1224.6	1262.8
42.5°	561.3	563.1	572.2	612.3	621.4	687.0	676.1	703.4	856.5	889.3
45°	448.3	446.5	451.9	433.7	444.6	512.1	519.3	521.2	652.4	672.4
47.5°	353.5	353.5	359.0	335.3	329.8	371.7	410.0	415.5	521.2	548.5
50°	247.8	247.8	275.2	264.2	277.0	289.7	331.7	337.1	426.4	455.6
52.5°	182.2	185.9	189.5	191.3	233.3	231.4	267.9	293.4	322.5	373.6
55°	138.5	142.1	133.0	142.1	173.1	193.2	200.4	236.9	256.9	313.4
57.5°	91.1	100.2	92.9	109.3	116.6	149.4	160.4	195.0	207.7	256.9
60°	12.8	14.6	23.7	76.5	82.0	98.4	123.9	154.9	167.6	209.6
62.5°	1.8	1.8	5.5	12.8	54.7	65.6	92.9	107.5	123.9	156.7
65°	0.0	0.0	1.8	3.6	10.9	38.3	47.4	58.3	85.6	113.0
67.5°	0.0	0.0	1.8	3.6	5.5	12.8	20.0	38.3	49.2	78.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	29.2	45.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	12.8	29.2
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	9.1	9.1
80°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	10.9	7.3	5.5
82.5°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	12.8	7.3	5.5
85°	0.0	0.0	1.8	5.5	7.3	9.1	14.6	12.8	7.3	3.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	7.3	5.5	3.6	1.8
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°
22014.9	0°	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9	22014.9
22071.4	2.5°	22235.4	22317.4	22461.3	22501.4	22625.3	22483.2	22404.8	22412.1	22242.6
22016.7	5°	22235.4	22423.1	22674.5	22794.8	22885.9	22878.6	22858.6	22807.6	22683.6
21907.4	7.5°	22177.0	22483.2	22829.4	22989.8	23099.1	23090.0	23135.6	23053.6	22902.3
21712.4	10°	21989.4	22255.4	22681.8	22813.0	22989.8	22993.4	22936.9	22953.3	22683.6
20999.9	12.5°	21398.9	21606.7	21980.2	22129.7	22344.7	22379.3	22317.4	22293.7	22038.6
19831.8	15°	20256.4	20376.6	20752.0	20901.5	21114.7	21085.5	21147.5	21122.0	20897.8
18253.7	17.5°	18585.4	18623.6	19017.2	19143.0	19343.4	19421.8	19328.8	19447.3	19254.1
16076.1	20°	16189.1	16395.0	16837.8	17031.0	17147.6	17287.9	17165.8	17298.8	17072.9
13433.8	22.5°	13758.2	13880.2	14281.1	14560.0	14776.8	14804.1	14758.6	14851.5	14547.2
11104.9	25°	11103.1	11305.4	11622.4	11986.9	12200.1	12331.3	12212.9	12273.0	12223.8
8612.1	27.5°	8757.8	8938.2	9177.0	9448.5	9769.2	9940.5	9845.7	9947.8	9707.2
6421.7	30°	6427.2	6518.3	6788.0	7075.9	7427.6	7635.3	7644.4	7748.3	7606.2
4499.2	32.5°	4532.0	4612.2	4778.0	4969.3	5304.6	5536.1	5499.6	5514.2	5426.7
2932.0	35°	2946.6	3054.1	3172.6	3263.7	3466.0	3721.1	3701.0	3682.8	3622.7
1928.0	37.5°	1969.9	2011.8	2077.4	2159.4	2290.6	2451.0	2503.8	2438.2	2412.7
1301.1	40°	1332.1	1405.0	1448.7	1510.7	1572.6	1707.5	1743.9	1731.2	1705.6
911.1	42.5°	945.8	1002.2	1056.9	1117.1	1149.9	1233.7	1304.7	1284.7	1273.8
692.5	45°	718.0	769.0	832.8	878.3	911.1	960.3	1027.8	1035.1	1018.6
555.8	47.5°	575.8	621.4	672.4	728.9	767.2	798.2	856.5	878.3	867.4
468.3	50°	488.4	523.0	572.2	628.7	670.6	697.9	749.0	772.6	765.4
391.8	52.5°	415.5	457.4	502.9	550.3	601.3	628.7	676.1	710.7	705.2
324.4	55°	344.4	399.1	446.5	493.8	552.1	579.5	621.4	667.0	657.8
275.2	57.5°	300.7	346.2	395.4	441.0	502.9	539.4	577.7	625.0	623.2
226.0	60°	251.5	297.0	351.7	390.0	455.6	506.6	541.2	590.4	594.1
171.3	62.5°	200.4	256.9	298.9	351.7	411.8	472.0	504.8	554.0	572.2
131.2	65°	149.4	211.4	258.8	311.6	368.1	435.5	464.7	513.9	532.1
94.8	67.5°	111.2	158.5	218.7	264.2	328.0	386.3	420.9	466.5	479.3
56.5	70°	83.8	122.1	182.2	222.3	287.9	335.3	369.9	404.5	420.9
38.3	72.5°	49.2	91.1	144.0	191.3	247.8	287.9	313.4	340.8	351.7
18.2	75°	34.6	69.2	113.0	158.5	200.4	233.3	256.9	280.6	291.6
9.1	77.5°	18.2	51.0	89.3	127.6	156.7	184.0	207.7	226.0	233.3
7.3	80°	10.9	36.4	72.9	100.2	120.3	144.0	167.6	180.4	178.6
5.5	82.5°	7.3	29.2	52.8	72.9	87.5	105.7	122.1	131.2	131.2
3.6	85°	5.5	20.0	36.4	56.5	58.3	72.9	76.5	85.6	87.5
3.6	87.5°	3.6	12.8	20.0	32.8	31.0	38.3	40.1	45.6	49.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22014.9
22106.0
22723.7
22936.9
22605.3
21980.2
20968.9
19206.7
17054.6
14505.3
12192.8
9769.2
7631.7
5475.9
3569.8
2407.2
1709.3
1264.7
1016.8
861.9
763.5
701.6
657.8
621.4
594.1
570.4
530.3
479.3
417.3
348.1
287.9
231.4
176.8
129.4
85.6
47.4
0.0

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