

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: P637680

Luminaire Tested: **IFLD-M-SA4A-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17744.4 lumens
Efficiency: N/A
Efficacy: 138.0 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): 128.6
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



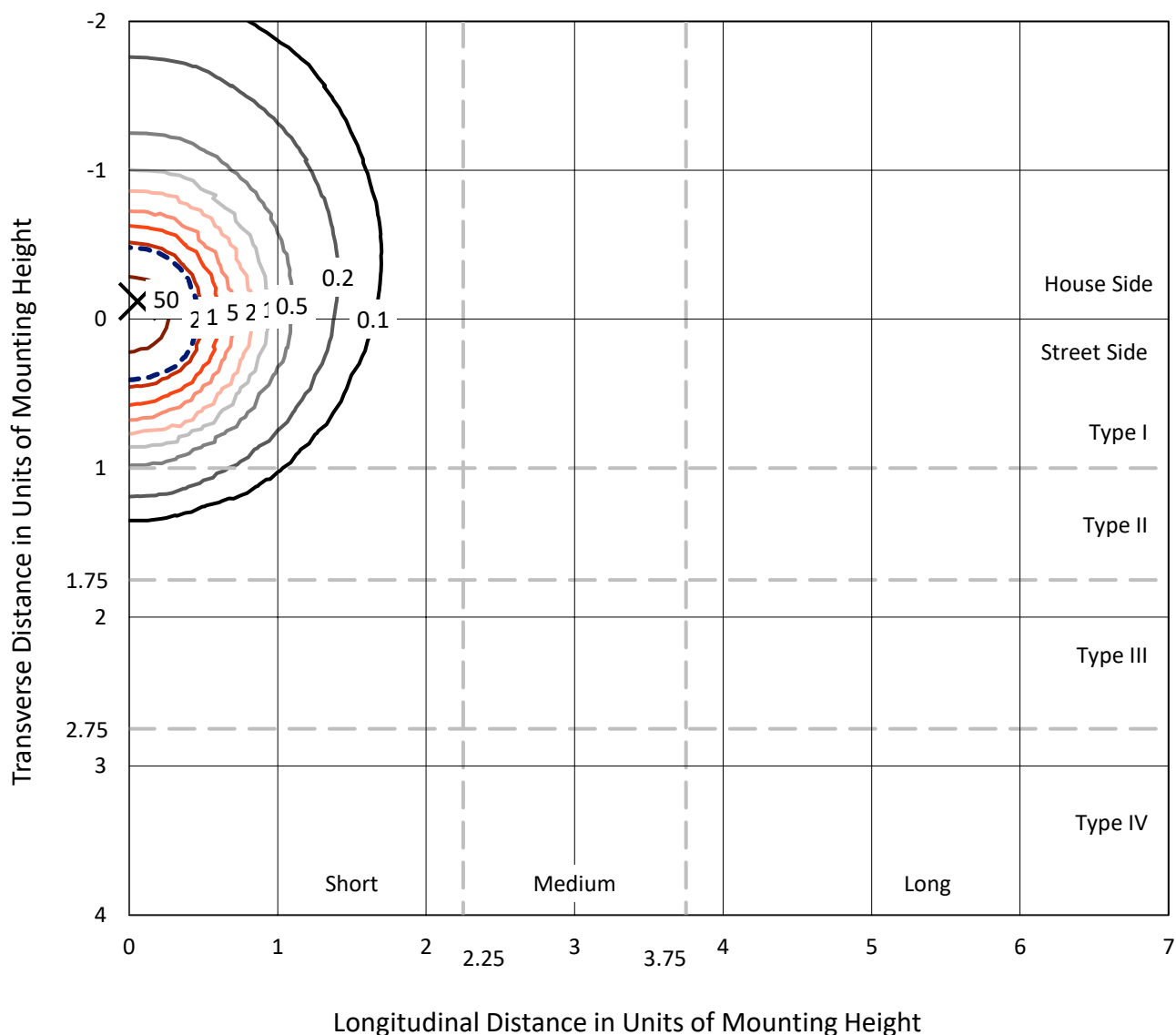
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



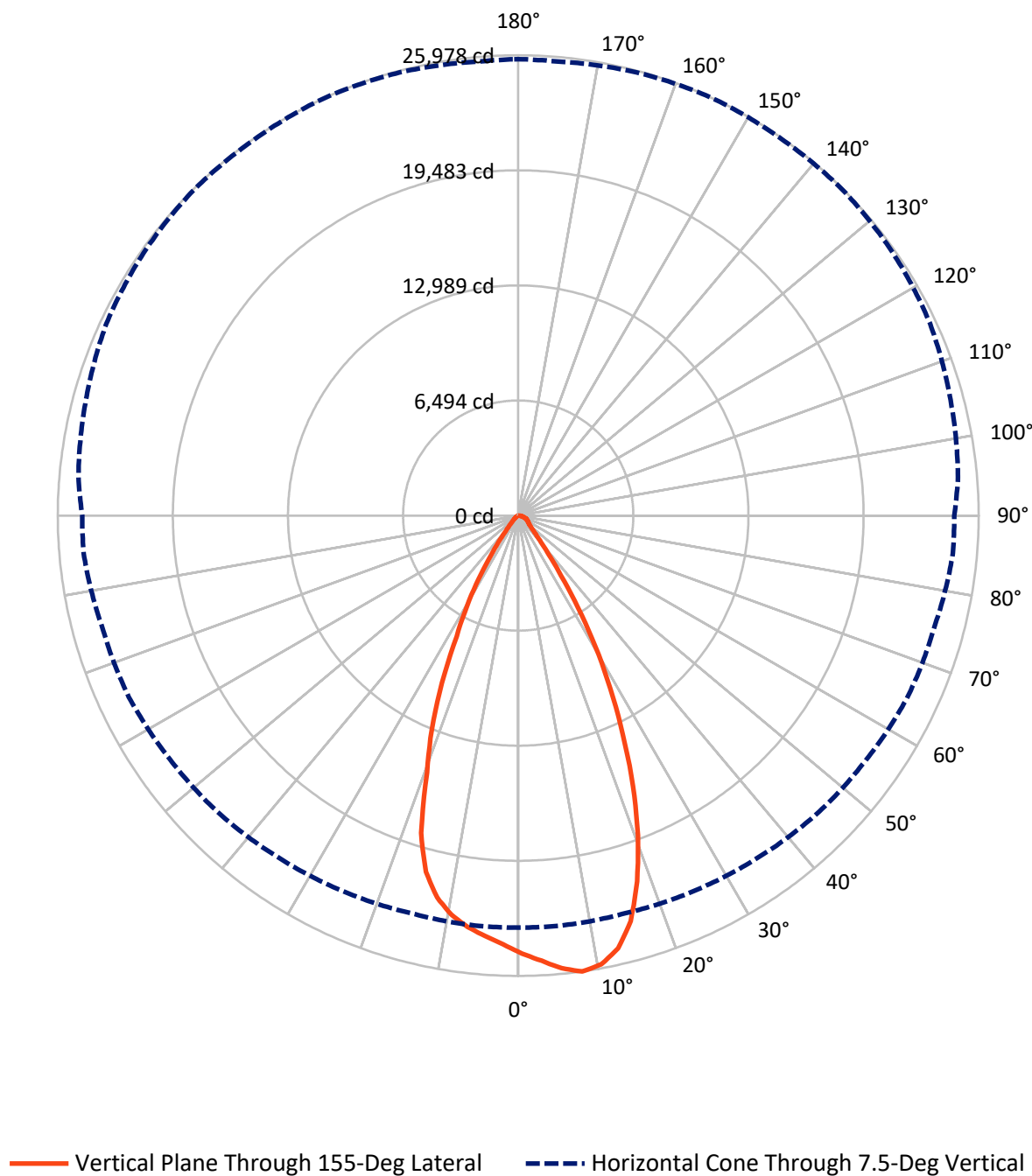
Based on 20 foot mounting height. Maximum calculated value = 62.8 fc

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	9795.6	0.0	9795.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7948.8	0.0	7948.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	17744.4	0.0	17744.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2357.2	13.3
10°-20°	6112.1	34.4
20°-30°	5600.4	31.6
30°-40°	2262.6	12.8
40°-50°	663.7	3.7
50°-60°	371.1	2.1
60°-70°	225.4	1.3
70°-80°	114.5	0.6
80°-90°	37.4	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°	17744.4	100.0
0°-180°	17744.4	100.0

Coefficient of Utilization



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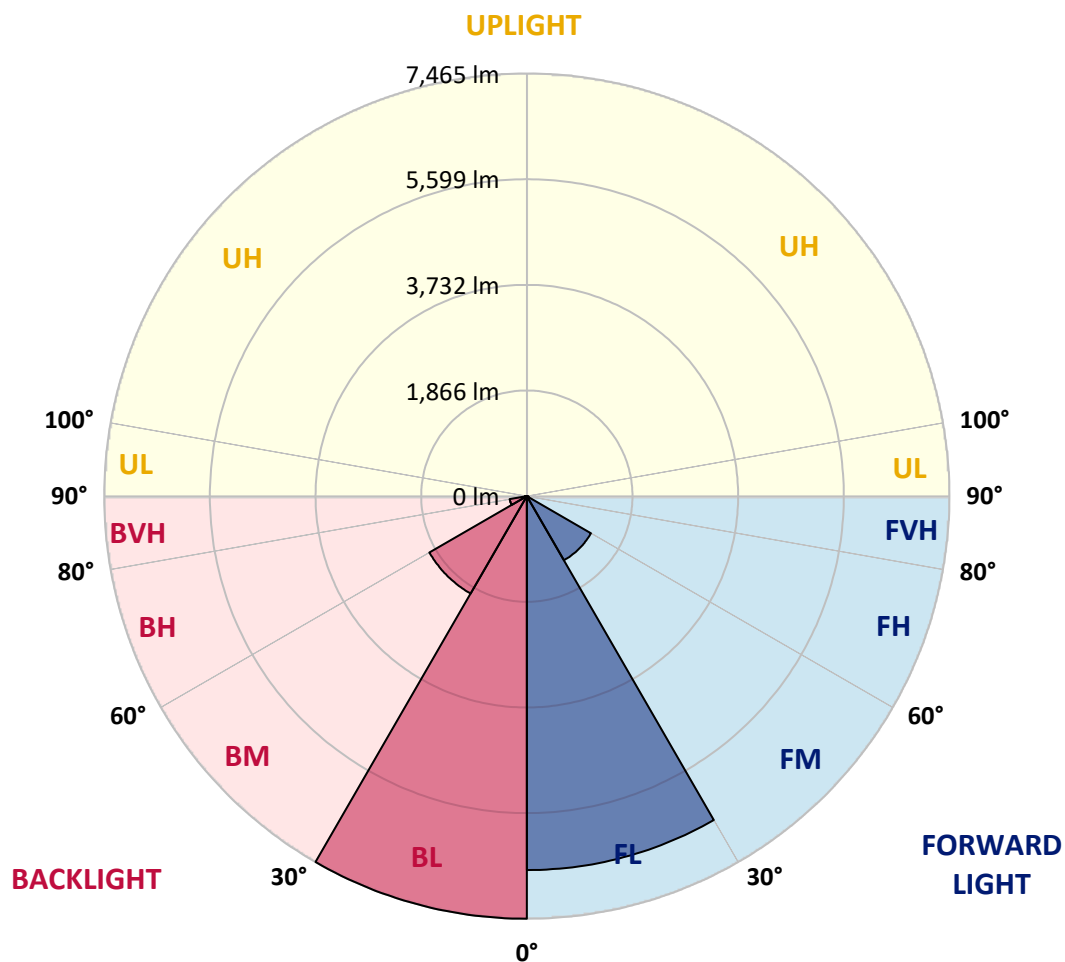
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6604.9	37.2			
FM	(30°-60°)	1309.0	7.4			
FH	(60°-80°)	31.7	0.2			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	7464.7	42.1	B5		
BM	(30°-60°)	1988.4	11.2	B2/2500		
BH	(60°-80°)	308.2	1.7	B1/500		G1/500
BVH	(80°-90°)	34.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3
2.5°	24183.3	24265.1	24101.4	24209.9	24293.7	24494.3	24510.6	24580.2	24604.8	24786.9
5°	23724.9	23788.4	23655.4	23800.6	23919.3	24097.3	24234.4	24426.7	24533.1	24748.0
7.5°	23248.2	23262.5	23235.9	23389.4	23567.4	23812.9	23982.7	24234.4	24299.9	24606.8
10°	22671.2	22566.8	22618.0	22843.0	23109.0	23485.5	23602.2	23853.8	23970.5	24283.5
12.5°	21750.4	21803.6	21740.2	22026.6	22247.6	22675.3	22798.0	23051.7	23274.8	23551.0
15°	20453.2	20422.5	20551.4	20774.4	21013.8	21353.5	21551.9	21828.2	21998.0	22284.4
17.5°	17537.4	17641.8	18173.8	18732.4	19223.4	19620.4	19857.7	20086.9	20209.7	20520.7
20°	15145.5	15014.5	15086.1	15401.3	16798.8	17406.5	17656.1	17711.3	17762.5	18008.0
22.5°	12471.2	12428.2	12667.6	13021.6	13353.1	14754.7	15094.3	14965.4	15071.8	15303.0
25°	9260.8	9477.7	9690.5	10369.8	10799.5	11487.0	12131.5	12188.8	12227.7	12373.0
27.5°	7538.0	7462.3	7458.2	7648.4	8282.8	8855.7	9404.0	9530.9	9508.4	9647.5
30°	5925.6	5901.1	5815.1	5860.1	5796.7	6306.2	6564.0	7085.8	7057.1	7061.2
32.5°	4274.4	4182.3	4147.5	4215.0	4149.6	4102.5	4327.6	4916.9	4906.6	4947.6
35°	2586.3	2574.0	2602.7	2662.0	2531.1	2527.0	2574.0	3128.5	3196.1	3261.5
37.5°	1428.2	1415.9	1438.4	1657.4	1614.4	1575.5	1587.8	1880.4	2074.8	2123.9
40°	941.2	939.2	955.5	994.4	1068.1	1053.8	1059.9	1190.8	1375.0	1418.0
42.5°	630.2	632.3	642.5	687.5	697.7	771.4	759.1	789.8	961.7	998.5
45°	503.3	501.3	507.4	487.0	499.3	575.0	583.1	585.2	732.5	755.0
47.5°	396.9	396.9	403.1	376.5	370.4	417.4	460.4	466.5	585.2	615.9
50°	278.3	278.3	309.0	296.7	311.0	325.3	372.4	378.5	478.8	511.5
52.5°	204.6	208.7	212.8	214.8	261.9	259.9	300.8	329.4	362.2	419.5
55°	155.5	159.6	149.4	159.6	194.4	216.9	225.1	266.0	288.5	351.9
57.5°	102.3	112.5	104.4	122.8	131.0	167.8	180.1	218.9	233.3	288.5
60°	14.3	16.4	26.6	85.9	92.1	110.5	139.1	173.9	188.2	235.3
62.5°	2.0	2.0	6.1	14.3	61.4	73.7	104.4	120.7	139.1	176.0
65°	0.0	0.0	2.0	4.1	12.3	43.0	53.2	65.5	96.2	126.9
67.5°	0.0	0.0	2.0	4.1	6.1	14.3	22.5	43.0	55.2	88.0
70°	0.0	0.0	2.0	4.1	6.1	8.2	12.3	16.4	32.7	51.2
72.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	12.3	14.3	32.7
75°	0.0	0.0	2.0	4.1	6.1	10.2	12.3	12.3	12.3	14.3
77.5°	0.0	0.0	2.0	4.1	8.2	12.3	14.3	12.3	10.2	10.2
80°	0.0	0.0	2.0	6.1	10.2	14.3	16.4	12.3	8.2	6.1
82.5°	0.0	0.0	2.0	6.1	10.2	14.3	16.4	14.3	8.2	6.1
85°	0.0	0.0	2.0	6.1	8.2	10.2	16.4	14.3	8.2	4.1
87.5°	0.0	0.0	0.0	2.0	2.0	4.1	8.2	6.1	4.1	2.0
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°
24719.3	0°	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3	24719.3
24782.8	2.5°	24966.9	25059.0	25220.6	25265.7	25404.8	25245.2	25157.2	25165.4	24975.1
24721.4	5°	24966.9	25177.7	25460.0	25595.1	25697.4	25689.2	25666.7	25609.4	25470.3
24598.6	7.5°	24901.5	25245.2	25634.0	25814.0	25936.8	25926.6	25977.7	25885.6	25715.8
24379.7	10°	24690.7	24989.4	25468.2	25615.6	25814.0	25818.1	25754.7	25773.1	25470.3
23579.6	12.5°	24027.8	24261.0	24680.5	24848.3	25089.7	25128.6	25059.0	25032.4	24745.9
22268.1	15°	22744.8	22879.9	23301.4	23469.2	23708.6	23675.8	23745.4	23716.7	23465.1
20496.1	17.5°	20868.5	20911.5	21353.5	21494.6	21719.7	21807.7	21703.3	21836.3	21619.5
18051.0	20°	18177.9	18409.1	18906.3	19123.2	19254.1	19411.7	19274.6	19423.9	19170.2
15084.1	22.5°	15448.3	15585.4	16035.6	16348.6	16592.1	16622.8	16571.6	16676.0	16334.3
12469.1	25°	12467.1	12694.2	13050.2	13459.5	13698.9	13846.2	13713.2	13780.7	13725.5
9670.0	27.5°	9833.7	10036.3	10304.3	10609.2	10969.3	11161.7	11055.3	11169.8	10899.8
7210.6	30°	7216.7	7319.0	7621.8	7945.1	8340.0	8573.3	8583.5	8700.2	8540.6
5051.9	32.5°	5088.7	5178.8	5365.0	5579.8	5956.3	6216.2	6175.2	6191.6	6093.4
3292.2	35°	3308.6	3429.3	3562.3	3664.6	3891.7	4178.2	4155.7	4135.2	4067.7
2164.8	37.5°	2211.9	2258.9	2332.6	2424.7	2572.0	2752.1	2811.4	2737.7	2709.1
1460.9	40°	1495.7	1577.6	1626.7	1696.2	1765.8	1917.2	1958.2	1943.8	1915.2
1023.1	42.5°	1061.9	1125.4	1186.8	1254.3	1291.1	1385.2	1465.0	1442.5	1430.2
777.5	45°	806.2	863.5	935.1	986.2	1023.1	1078.3	1154.0	1162.2	1143.8
624.1	47.5°	646.6	697.7	755.0	818.5	861.4	896.2	961.7	986.2	974.0
525.9	50°	548.4	587.2	642.5	705.9	753.0	783.7	841.0	867.6	859.4
439.9	52.5°	466.5	513.6	564.7	617.9	675.2	705.9	759.1	798.0	791.9
364.2	55°	386.7	448.1	501.3	554.5	620.0	650.7	697.7	748.9	738.7
309.0	57.5°	337.6	388.8	444.0	495.2	564.7	605.7	648.6	701.8	699.8
253.7	60°	282.4	333.5	394.9	437.9	511.5	568.8	607.7	662.9	667.0
192.3	62.5°	225.1	288.5	335.6	394.9	462.4	529.9	566.8	622.0	642.5
147.3	65°	167.8	237.4	290.6	349.9	413.3	489.0	521.8	577.0	597.5
106.4	67.5°	124.8	178.0	245.5	296.7	368.3	433.8	472.7	523.8	538.1
63.4	70°	94.1	137.1	204.6	249.6	323.3	376.5	415.4	454.2	472.7
43.0	72.5°	55.2	102.3	161.6	214.8	278.3	323.3	351.9	382.6	394.9
20.5	75°	38.9	77.8	126.9	178.0	225.1	261.9	288.5	315.1	327.4
10.2	77.5°	20.5	57.3	100.3	143.2	176.0	206.7	233.3	253.7	261.9
8.2	80°	12.3	40.9	81.8	112.5	135.0	161.6	188.2	202.6	200.5
6.1	82.5°	8.2	32.7	59.3	81.8	98.2	118.7	137.1	147.3	147.3
4.1	85°	6.1	22.5	40.9	63.4	65.5	81.8	85.9	96.2	98.2
4.1	87.5°	4.1	14.3	22.5	36.8	34.8	43.0	45.0	51.2	55.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24719.3
24821.7
25515.3
25754.7
25382.3
24680.5
23544.9
21566.3
19149.8
16287.2
13690.7
10969.3
8569.2
6148.6
4008.4
2702.9
1919.3
1420.0
1141.7
967.8
857.3
787.8
738.7
697.7
667.0
640.4
595.4
538.1
468.6
390.8
323.3
259.9
198.5
145.3
96.2
53.2
0.0

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