

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: P637651

Luminaire Tested: **IFLD-M-SA4A-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17347.1 lumens
Efficiency: N/A
Efficacy: 134.9 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



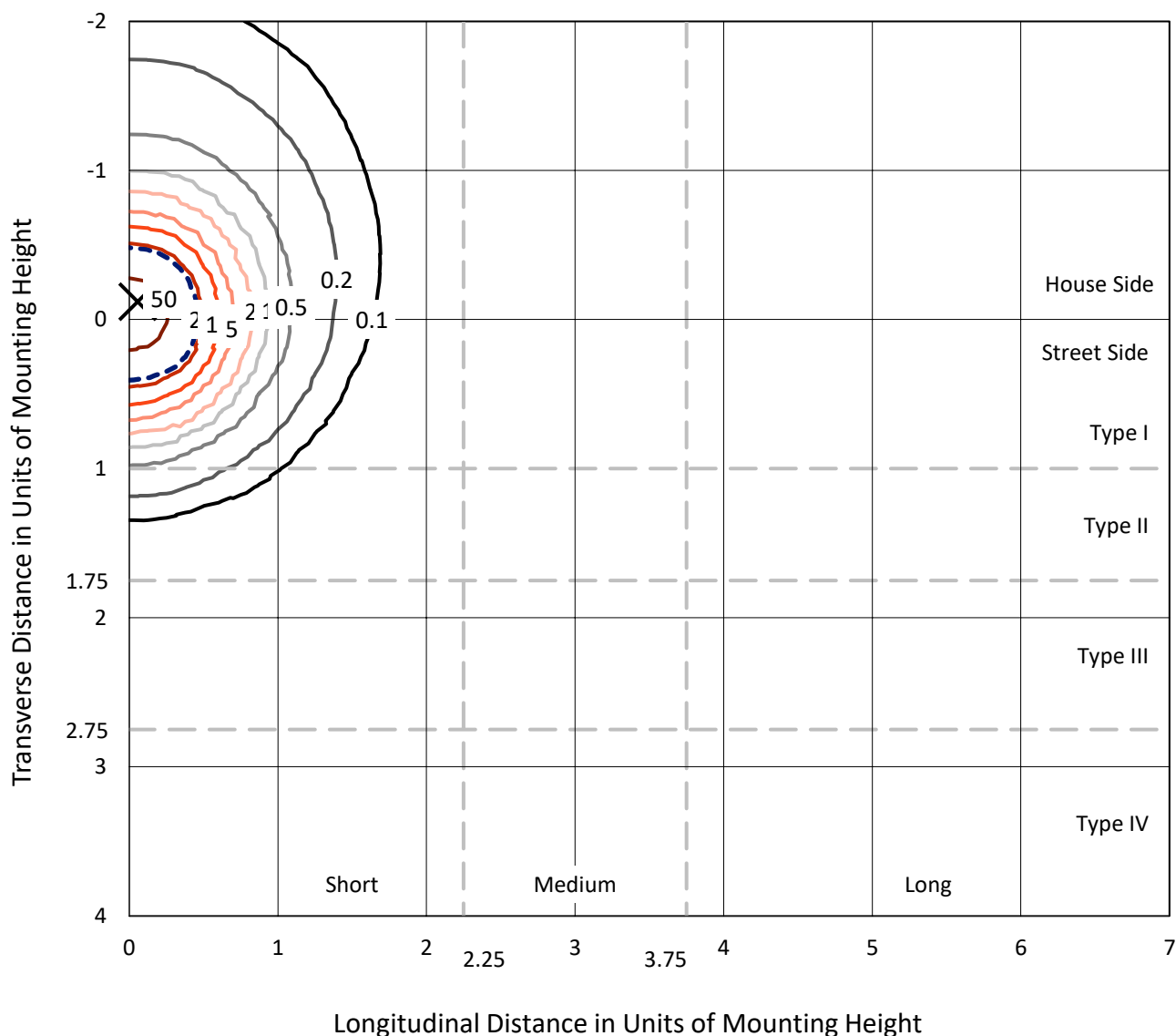
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

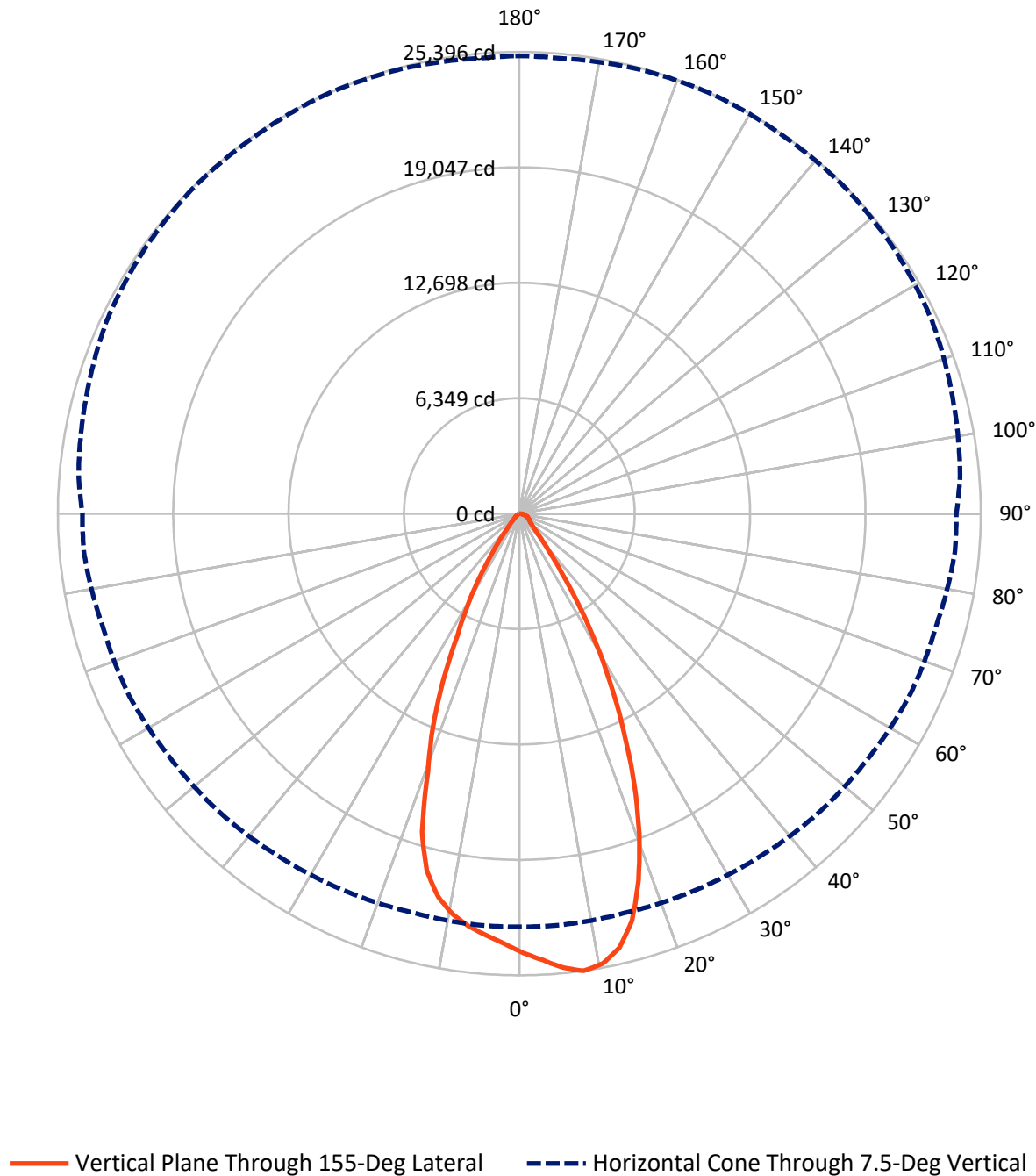


Based on 20 foot mounting height. Maximum calculated value = 61.4 fc

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	9576.3	0.0	9576.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7770.9	0.0	7770.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	17347.1	0.0	17347.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2304.4	13.3
10°-20°	5975.3	34.4
20°-30°	5475.0	31.6
30°-40°	2211.9	12.8
40°-50°	648.9	3.7
50°-60°	362.8	2.1
60°-70°	220.4	1.3
70°-80°	112.0	0.6
80°-90°	36.6	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°	17347.1	100.0
0°-180°	17347.1	100.0

Coefficient of Utilization



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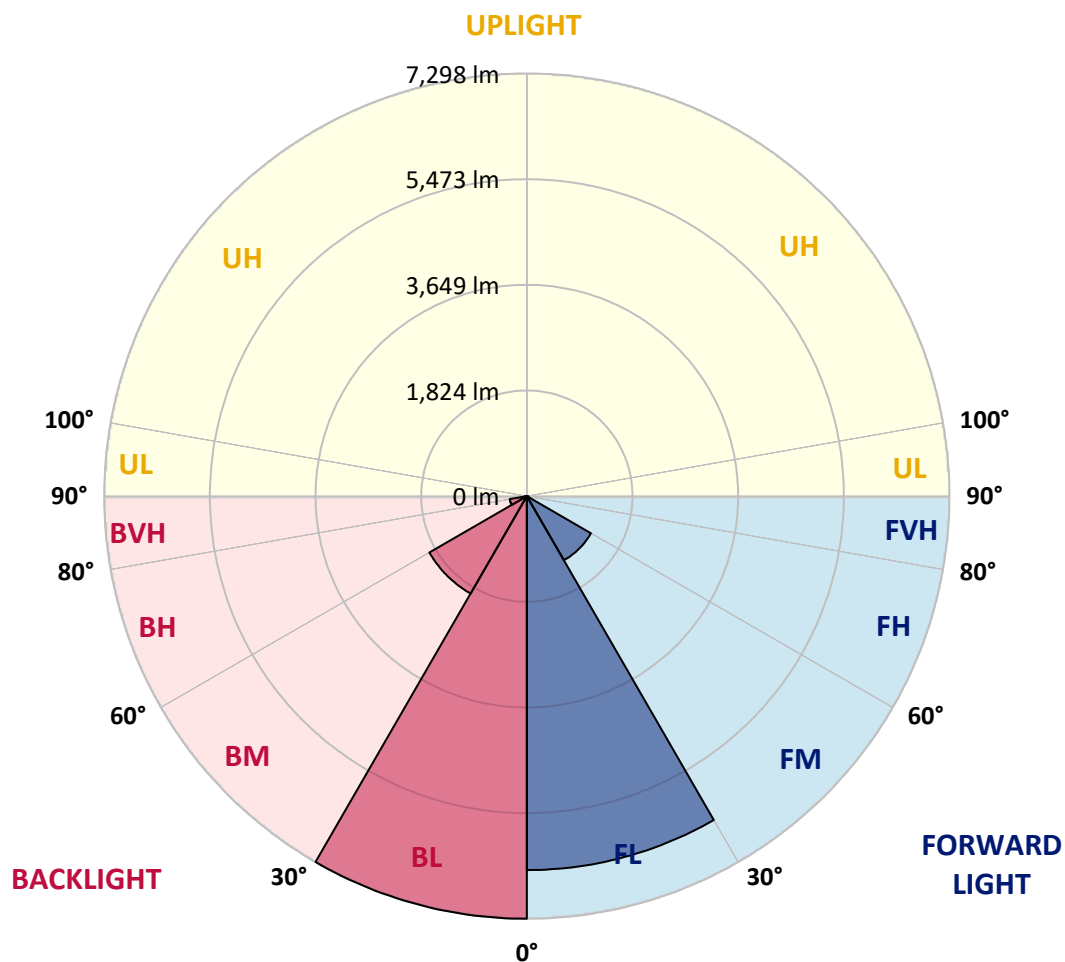
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6457.1	37.2			
FM	(30°-60°)	1279.7	7.4			
FH	(60°-80°)	31.0	0.2			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	7297.6	42.1	B5		
BM	(30°-60°)	1943.9	11.2	B2/2500		
BH	(60°-80°)	301.3	1.7	B1/500		G1/500
BVH	(80°-90°)	33.4	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°	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9
2.5°	23641.9	23721.9	23561.8	23667.9	23749.9	23945.9	23961.9	24029.9	24053.9	24232.0
5°	23193.8	23255.8	23125.8	23267.8	23383.8	23557.8	23691.9	23879.9	23983.9	24193.9
7.5°	22727.7	22741.7	22715.7	22865.7	23039.8	23279.8	23445.8	23691.9	23755.9	24055.9
10°	22163.6	22061.6	22111.6	22331.6	22591.7	22959.7	23073.8	23319.8	23433.8	23739.9
12.5°	21263.5	21315.5	21253.5	21533.5	21749.5	22167.6	22287.6	22535.7	22753.7	23023.8
15°	19995.3	19965.3	20091.3	20309.3	20543.4	20875.4	21069.4	21339.5	21505.5	21785.6
17.5°	17144.8	17246.8	17766.9	18313.0	18793.1	19181.1	19413.2	19637.2	19757.2	20061.3
20°	14806.4	14678.4	14748.4	15056.5	16422.7	17016.8	17260.8	17314.8	17364.8	17604.9
22.5°	12192.0	12150.0	12384.0	12730.1	13054.1	14424.4	14756.4	14630.4	14734.4	14960.4
25°	9053.5	9265.5	9473.5	10137.7	10557.7	11229.8	11859.9	11915.9	11954.0	12096.0
27.5°	7369.2	7295.2	7291.2	7477.2	8097.3	8657.4	9193.5	9317.5	9295.5	9431.5
30°	5792.9	5768.9	5684.9	5728.9	5666.9	6165.0	6417.0	6927.1	6899.1	6903.1
32.5°	4178.7	4088.7	4054.7	4120.7	4056.7	4010.7	4230.7	4806.8	4796.8	4836.8
35°	2528.4	2516.4	2544.4	2602.4	2474.4	2470.4	2516.4	3058.5	3124.5	3188.5
37.5°	1396.2	1384.2	1406.2	1620.3	1578.3	1540.3	1552.3	1838.3	2028.3	2076.3
40°	920.2	918.1	934.2	972.2	1044.2	1030.2	1036.2	1164.2	1344.2	1386.2
42.5°	616.1	618.1	628.1	672.1	682.1	754.1	742.1	772.1	940.2	976.2
45°	492.1	490.1	496.1	476.1	488.1	562.1	570.1	572.1	716.1	738.1
47.5°	388.1	388.1	394.1	368.1	362.1	408.1	450.1	456.1	572.1	602.1
50°	272.0	272.0	302.0	290.0	304.0	318.1	364.1	370.1	468.1	500.1
52.5°	200.0	204.0	208.0	210.0	256.0	254.0	294.0	322.1	354.1	410.1
55°	152.0	156.0	146.0	156.0	190.0	212.0	220.0	260.0	282.0	344.1
57.5°	100.0	110.0	102.0	120.0	128.0	164.0	176.0	214.0	228.0	282.0
60°	14.0	16.0	26.0	84.0	90.0	108.0	136.0	170.0	184.0	230.0
62.5°	2.0	2.0	6.0	14.0	60.0	72.0	102.0	118.0	136.0	172.0
65°	0.0	0.0	2.0	4.0	12.0	42.0	52.0	64.0	94.0	124.0
67.5°	0.0	0.0	2.0	4.0	6.0	14.0	22.0	42.0	54.0	86.0
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	32.0	50.0
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	32.0
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	10.0	10.0
80°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	12.0	8.0	6.0
82.5°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	14.0	8.0	6.0
85°	0.0	0.0	2.0	6.0	8.0	10.0	16.0	14.0	8.0	4.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	8.0	6.0	4.0	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°
24165.9	0°	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9	24165.9
24228.0	2.5°	24408.0	24498.0	24656.0	24700.0	24836.1	24680.0	24594.0	24602.0	24416.0
24167.9	5°	24408.0	24614.0	24890.1	25022.1	25122.1	25114.1	25092.1	25036.1	24900.1
24047.9	7.5°	24344.0	24680.0	25060.1	25236.1	25356.1	25346.1	25396.1	25306.1	25140.1
23833.9	10°	24137.9	24430.0	24898.1	25042.1	25236.1	25240.1	25178.1	25196.1	24900.1
23051.8	12.5°	23489.8	23717.9	24127.9	24292.0	24528.0	24566.0	24498.0	24472.0	24191.9
21769.6	15°	22235.6	22367.7	22779.7	22943.7	23177.8	23145.8	23213.8	23185.8	22939.7
20037.3	17.5°	20401.3	20443.3	20875.4	21013.4	21233.5	21319.5	21217.5	21347.5	21135.4
17646.9	20°	17770.9	17996.9	18483.0	18695.1	18823.1	18977.1	18843.1	18989.1	18741.1
14746.4	22.5°	15102.5	15236.5	15676.6	15982.6	16220.6	16250.7	16200.6	16302.7	15968.6
12190.0	25°	12188.0	12410.0	12758.1	13158.1	13392.2	13536.2	13406.2	13472.2	13418.2
9453.5	27.5°	9613.6	9811.6	10073.6	10371.7	10723.8	10911.8	10807.8	10919.8	10655.7
7049.2	30°	7055.2	7155.2	7451.2	7767.3	8153.3	8381.4	8391.4	8505.4	8349.4
4938.8	32.5°	4974.8	5062.8	5244.9	5454.9	5823.0	6077.0	6037.0	6053.0	5957.0
3218.5	35°	3234.5	3352.5	3482.6	3582.6	3804.6	4084.7	4062.7	4042.7	3976.6
2116.3	37.5°	2162.4	2208.4	2280.4	2370.4	2514.4	2690.4	2748.4	2676.4	2648.4
1428.2	40°	1462.2	1542.3	1590.3	1658.3	1726.3	1874.3	1914.3	1900.3	1872.3
1000.2	42.5°	1038.2	1100.2	1160.2	1226.2	1262.2	1354.2	1432.2	1410.2	1398.2
760.1	45°	788.1	844.1	914.1	964.2	1000.2	1054.2	1128.2	1136.2	1118.2
610.1	47.5°	632.1	682.1	738.1	800.1	842.1	876.1	940.2	964.2	952.2
514.1	50°	536.1	574.1	628.1	690.1	736.1	766.1	822.1	848.1	840.1
430.1	52.5°	456.1	502.1	552.1	604.1	660.1	690.1	742.1	780.1	774.1
356.1	55°	378.1	438.1	490.1	542.1	606.1	636.1	682.1	732.1	722.1
302.0	57.5°	330.1	380.1	434.1	484.1	552.1	592.1	634.1	686.1	684.1
248.0	60°	276.0	326.1	386.1	428.1	500.1	556.1	594.1	648.1	652.1
188.0	62.5°	220.0	282.0	328.1	386.1	452.1	518.1	554.1	608.1	628.1
144.0	65°	164.0	232.0	284.0	342.1	404.1	478.1	510.1	564.1	584.1
104.0	67.5°	122.0	174.0	240.0	290.0	360.1	424.1	462.1	512.1	526.1
62.0	70°	92.0	134.0	200.0	244.0	316.1	368.1	406.1	444.1	462.1
42.0	72.5°	54.0	100.0	158.0	210.0	272.0	316.1	344.1	374.1	386.1
20.0	75°	38.0	76.0	124.0	174.0	220.0	256.0	282.0	308.1	320.1
10.0	77.5°	20.0	56.0	98.0	140.0	172.0	202.0	228.0	248.0	256.0
8.0	80°	12.0	40.0	80.0	110.0	132.0	158.0	184.0	198.0	196.0
6.0	82.5°	8.0	32.0	58.0	80.0	96.0	116.0	134.0	144.0	144.0
4.0	85°	6.0	22.0	40.0	62.0	64.0	80.0	84.0	94.0	96.0
4.0	87.5°	4.0	14.0	22.0	36.0	34.0	42.0	44.0	50.0	54.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24165.9
24266.0
24944.1
25178.1
24814.0
24127.9
23017.8
21083.4
18721.1
15922.6
13384.2
10723.8
8377.4
6011.0
3918.6
2642.4
1876.3
1388.2
1116.2
946.2
838.1
770.1
722.1
682.1
652.1
626.1
582.1
526.1
458.1
382.1
316.1
254.0
194.0
142.0
94.0
52.0
0.0

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