

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: P637648

Luminaire Tested: **IFLD-S-SA6C-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39031.3 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5
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



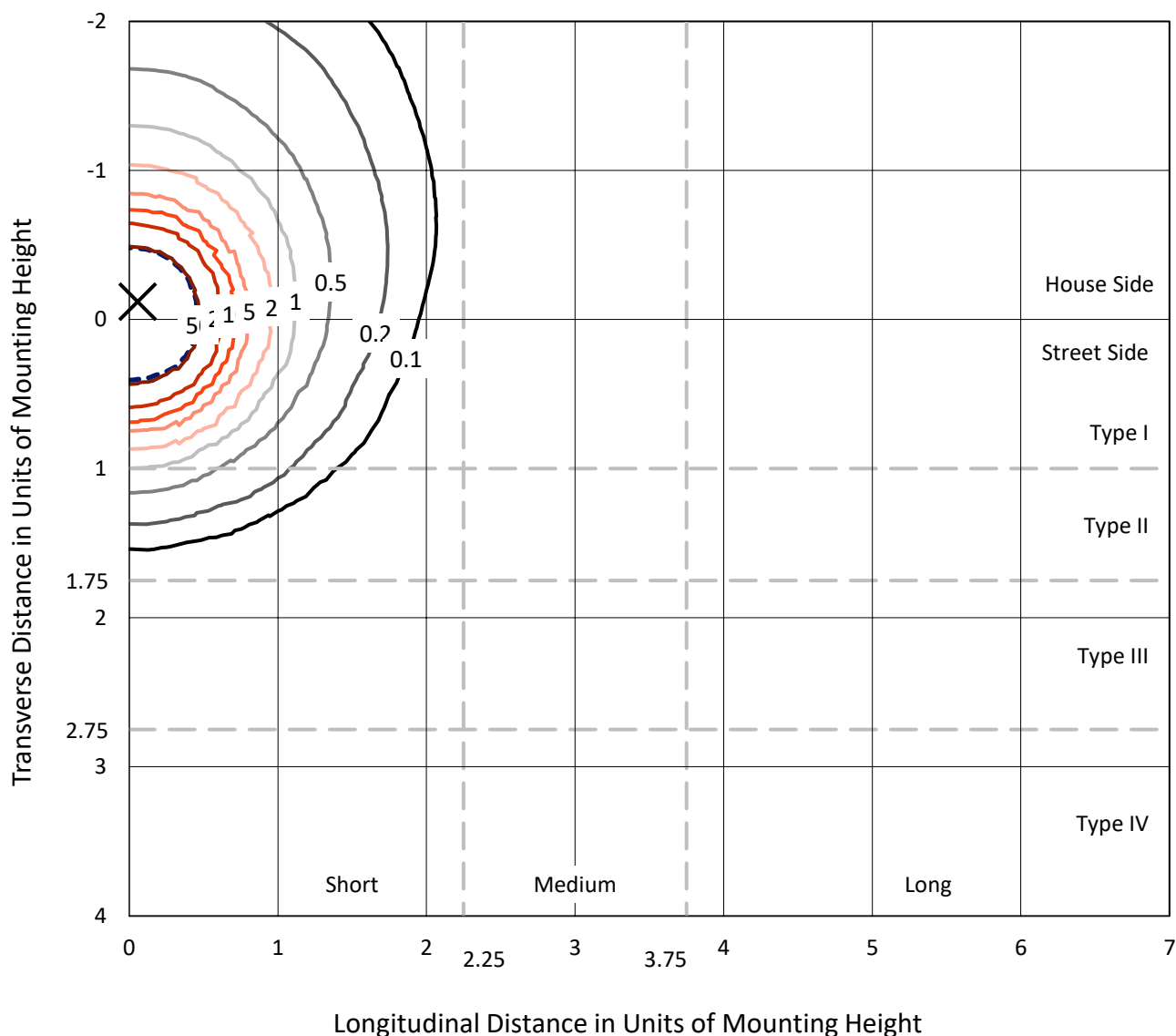
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

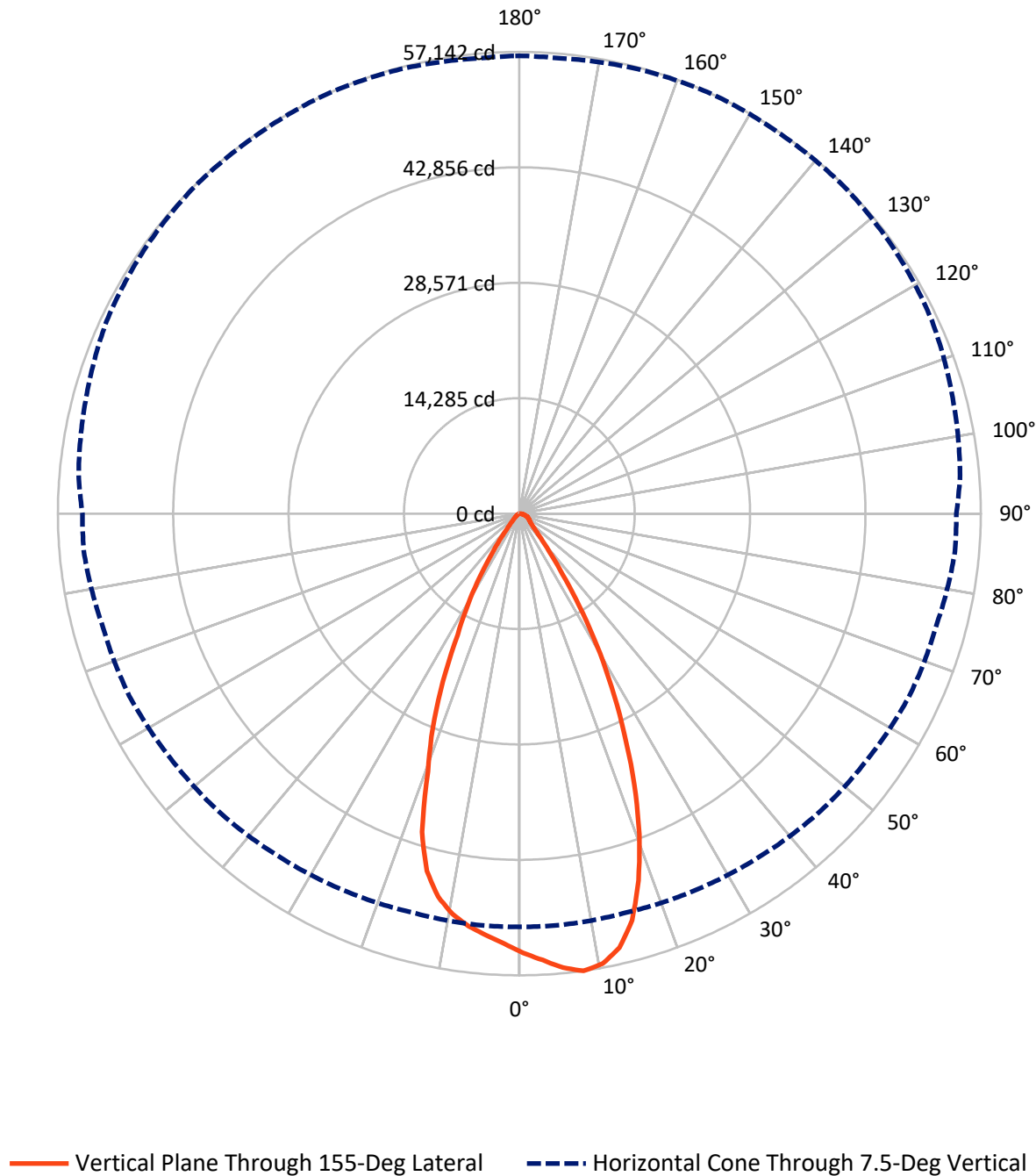


Based on 20 foot mounting height. Maximum calculated value = 138.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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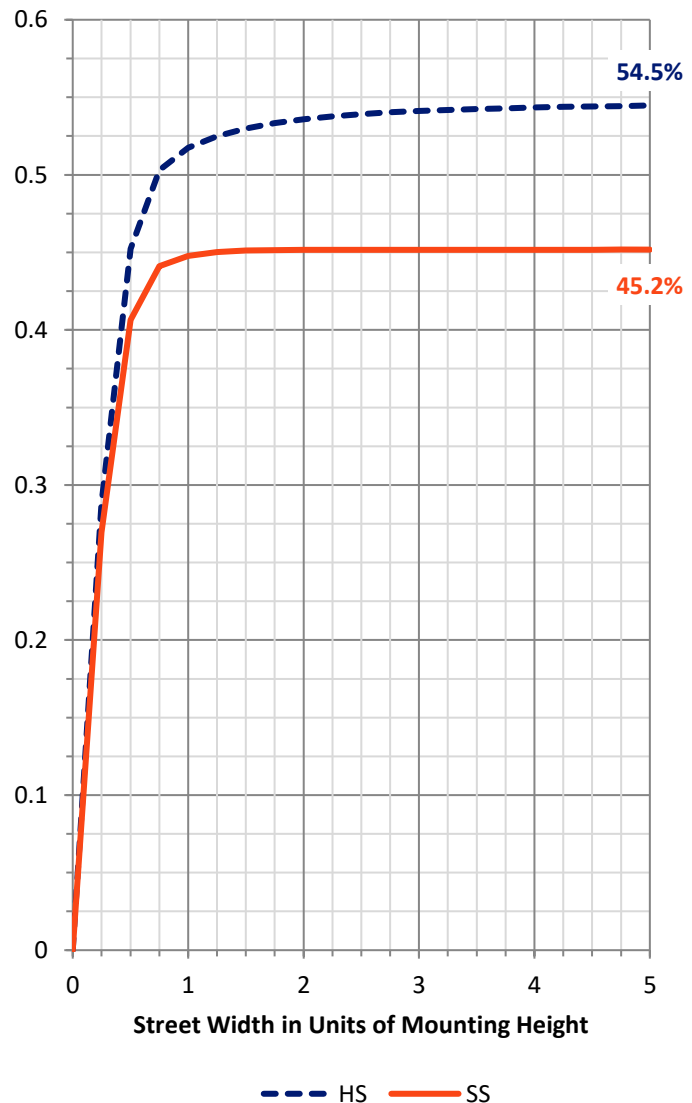
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21546.7	0.0	21546.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17484.6	0.0	17484.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	39031.3	0.0	39031.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5184.9	13.3
10°-20°	13444.4	34.4
20°-30°	12318.8	31.6
30°-40°	4976.8	12.8
40°-50°	1460.0	3.7
50°-60°	816.3	2.1
60°-70°	495.8	1.3
70°-80°	251.9	0.6
80°-90°	82.4	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°	39031.3	100.0
0°-180°	39031.3	100.0

Coefficient of Utilization



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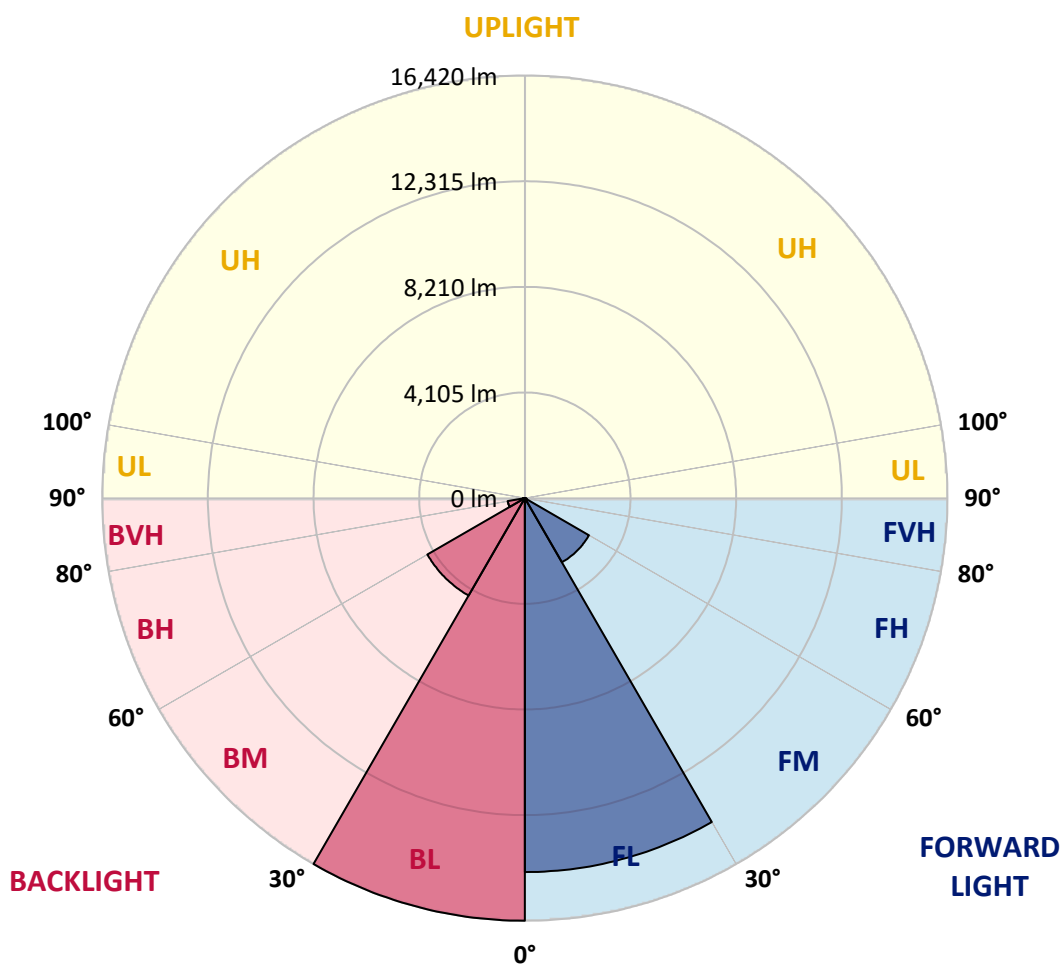
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14528.5	37.2			
FM	(30°-60°)	2879.3	7.4			
FH	(60°-80°)	69.7	0.2			G0/660
FVH	(80°-90°)	7.1	0.0			G0/10
BL	(0°-30°)	16419.7	42.1	B5		
BM	(30°-60°)	4373.8	11.2	B3/5000		
BH	(60°-80°)	678.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	75.2	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7
2.5°	53194.5	53374.5	53014.5	53253.0	53437.5	53878.6	53914.6	54067.6	54121.7	54522.2
5°	52186.3	52325.8	52033.3	52352.9	52613.9	53005.5	53307.0	53730.1	53964.1	54436.7
7.5°	51137.6	51169.2	51110.6	51448.2	51839.8	52379.9	52753.4	53307.0	53451.0	54126.2
10°	49868.4	49638.9	49751.4	50246.5	50831.6	51659.7	51916.3	52469.9	52726.4	53415.0
12.5°	47843.1	47960.1	47820.6	48450.7	48936.8	49877.4	50147.5	50705.6	51196.2	51803.8
15°	44989.6	44922.1	45205.6	45696.2	46222.8	46969.9	47406.5	48014.1	48387.7	49017.8
17.5°	38576.0	38805.6	39975.8	41204.5	42284.6	43157.8	43679.9	44184.0	44454.0	45138.1
20°	33314.6	33026.6	33184.1	33877.2	36951.2	38288.0	38837.1	38958.6	39071.1	39611.2
22.5°	27432.1	27337.6	27864.2	28642.8	29372.0	32455.0	33202.1	32918.6	33152.6	33661.2
25°	20370.4	20847.5	21315.6	22809.9	23755.0	25267.3	26685.0	26811.0	26896.5	27216.1
27.5°	16580.8	16414.3	16405.3	16823.8	18219.1	19479.3	20685.5	20964.5	20915.0	21221.1
30°	13034.2	12980.2	12791.2	12890.2	12750.7	13871.3	14438.4	15586.1	15523.1	15532.1
32.5°	9402.1	9199.6	9123.0	9271.6	9127.5	9024.0	9519.1	10815.3	10792.8	10882.8
35°	5689.0	5662.0	5725.0	5855.5	5567.4	5558.4	5662.0	6881.7	7030.2	7174.2
37.5°	3141.5	3114.5	3164.0	3645.6	3551.1	3465.6	3492.6	4136.2	4563.8	4671.8
40°	2070.4	2065.8	2101.9	2187.4	2349.4	2317.9	2331.4	2619.4	3024.5	3119.0
42.5°	1386.2	1390.7	1413.2	1512.3	1534.8	1696.8	1669.8	1737.3	2115.4	2196.4
45°	1107.2	1102.7	1116.2	1071.2	1098.2	1264.7	1282.7	1287.2	1611.3	1660.8
47.5°	873.1	873.1	886.6	828.1	814.6	918.2	1012.7	1026.2	1287.2	1354.7
50°	612.1	612.1	679.6	652.6	684.1	715.6	819.1	832.6	1053.2	1125.2
52.5°	450.1	459.1	468.1	472.6	576.1	571.6	661.6	724.6	796.6	922.7
55°	342.1	351.1	328.6	351.1	427.6	477.1	495.1	585.1	634.6	774.1
57.5°	225.0	247.5	229.5	270.0	288.0	369.1	396.1	481.6	513.1	634.6
60°	31.5	36.0	58.5	189.0	202.5	243.0	306.1	382.6	414.1	517.6
62.5°	4.5	4.5	13.5	31.5	135.0	162.0	229.5	265.5	306.1	387.1
65°	0.0	0.0	4.5	9.0	27.0	94.5	117.0	144.0	211.5	279.0
67.5°	0.0	0.0	4.5	9.0	13.5	31.5	49.5	94.5	121.5	193.5
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	72.0	112.5
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5	72.0
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	22.5	22.5
80°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	27.0	18.0	13.5
82.5°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	31.5	18.0	13.5
85°	0.0	0.0	4.5	13.5	18.0	22.5	36.0	31.5	18.0	9.0
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	18.0	13.5	9.0	4.5
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°
54373.7	0°	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7	54373.7
54513.2	2.5°	54918.3	55120.8	55476.4	55575.4	55881.4	55530.4	55336.9	55354.9	54936.3
54378.2	5°	54918.3	55381.9	56003.0	56300.0	56525.1	56507.1	56457.5	56331.5	56025.5
54108.1	7.5°	54774.3	55530.4	56385.5	56781.6	57051.6	57029.1	57141.7	56939.1	56565.6
53626.6	10°	54310.7	54967.8	56021.0	56345.0	56781.6	56790.6	56651.1	56691.6	56025.5
51866.8	12.5°	52852.4	53365.5	54288.2	54657.2	55188.3	55273.8	55120.8	55062.3	54432.2
48981.8	15°	50030.5	50327.5	51254.7	51623.7	52150.3	52078.3	52231.3	52168.3	51614.7
45084.1	17.5°	45903.3	45997.8	46969.9	47280.5	47775.6	47969.1	47739.6	48032.1	47555.0
39705.7	20°	39984.8	40493.3	41587.0	42064.1	42352.2	42698.7	42397.2	42725.7	42167.6
33179.6	22.5°	33980.7	34282.3	35272.5	35961.1	36496.7	36564.2	36451.7	36681.2	35929.6
27427.6	25°	27423.1	27922.7	28705.9	29606.0	30132.6	30456.6	30164.1	30312.6	30191.1
21270.6	27.5°	21630.7	22076.2	22665.8	23336.4	24128.6	24551.7	24317.6	24569.7	23975.6
15860.7	30°	15874.2	16099.2	16765.3	17476.5	18345.1	18858.2	18880.7	19137.2	18786.2
11112.4	32.5°	11193.4	11391.4	11801.0	12273.6	13101.7	13673.3	13583.3	13619.3	13403.3
7241.7	35°	7277.7	7543.3	7835.8	8060.9	8560.4	9190.6	9141.0	9096.0	8947.5
4761.8	37.5°	4865.3	4968.8	5130.9	5333.4	5657.5	6053.5	6184.0	6022.0	5959.0
3213.5	40°	3290.1	3470.1	3578.1	3731.1	3884.2	4217.2	4307.2	4275.7	4212.7
2250.4	42.5°	2335.9	2475.4	2610.4	2759.0	2840.0	3047.0	3222.5	3173.0	3146.0
1710.3	45°	1773.3	1899.3	2056.8	2169.4	2250.4	2371.9	2538.4	2556.4	2515.9
1372.7	47.5°	1422.2	1534.8	1660.8	1800.3	1894.8	1971.3	2115.4	2169.4	2142.4
1156.7	50°	1206.2	1291.7	1413.2	1552.8	1656.3	1723.8	1849.8	1908.3	1890.3
967.7	52.5°	1026.2	1129.7	1242.2	1359.2	1485.3	1552.8	1669.8	1755.3	1741.8
801.1	55°	850.6	985.7	1102.7	1219.7	1363.7	1431.2	1534.8	1647.3	1624.8
679.6	57.5°	742.6	855.1	976.7	1089.2	1242.2	1332.2	1426.7	1543.8	1539.3
558.1	60°	621.1	733.6	868.6	963.2	1125.2	1251.2	1336.7	1458.2	1467.2
423.1	62.5°	495.1	634.6	738.1	868.6	1017.2	1165.7	1246.7	1368.2	1413.2
324.1	65°	369.1	522.1	639.1	769.6	909.2	1075.7	1147.7	1269.2	1314.2
234.0	67.5°	274.5	391.6	540.1	652.6	810.1	954.2	1039.7	1152.2	1183.7
139.5	70°	207.0	301.6	450.1	549.1	711.1	828.1	913.7	999.2	1039.7
94.5	72.5°	121.5	225.0	355.6	472.6	612.1	711.1	774.1	841.6	868.6
45.0	75°	85.5	171.0	279.0	391.6	495.1	576.1	634.6	693.1	720.1
22.5	77.5°	45.0	126.0	220.5	315.1	387.1	454.6	513.1	558.1	576.1
18.0	80°	27.0	90.0	180.0	247.5	297.1	355.6	414.1	445.6	441.1
13.5	82.5°	18.0	72.0	130.5	180.0	216.0	261.0	301.6	324.1	324.1
9.0	85°	13.5	49.5	90.0	139.5	144.0	180.0	189.0	211.5	216.0
9.0	87.5°	9.0	31.5	49.5	81.0	76.5	94.5	99.0	112.5	121.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54373.7
54598.7
56124.5
56651.1
55831.9
54288.2
51790.3
47438.0
42122.6
35826.1
30114.6
24128.6
18849.2
13524.8
8817.0
5945.5
4221.7
3123.5
2511.4
2128.9
1885.8
1732.8
1624.8
1534.8
1467.2
1408.7
1309.7
1183.7
1030.7
859.6
711.1
571.6
436.6
319.6
211.5
117.0
0.0

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