

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: P637535

Luminaire Tested: **IFLD-M-SA4A-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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: 12777.9 lumens
Efficiency: N/A
Efficacy: 99.4 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



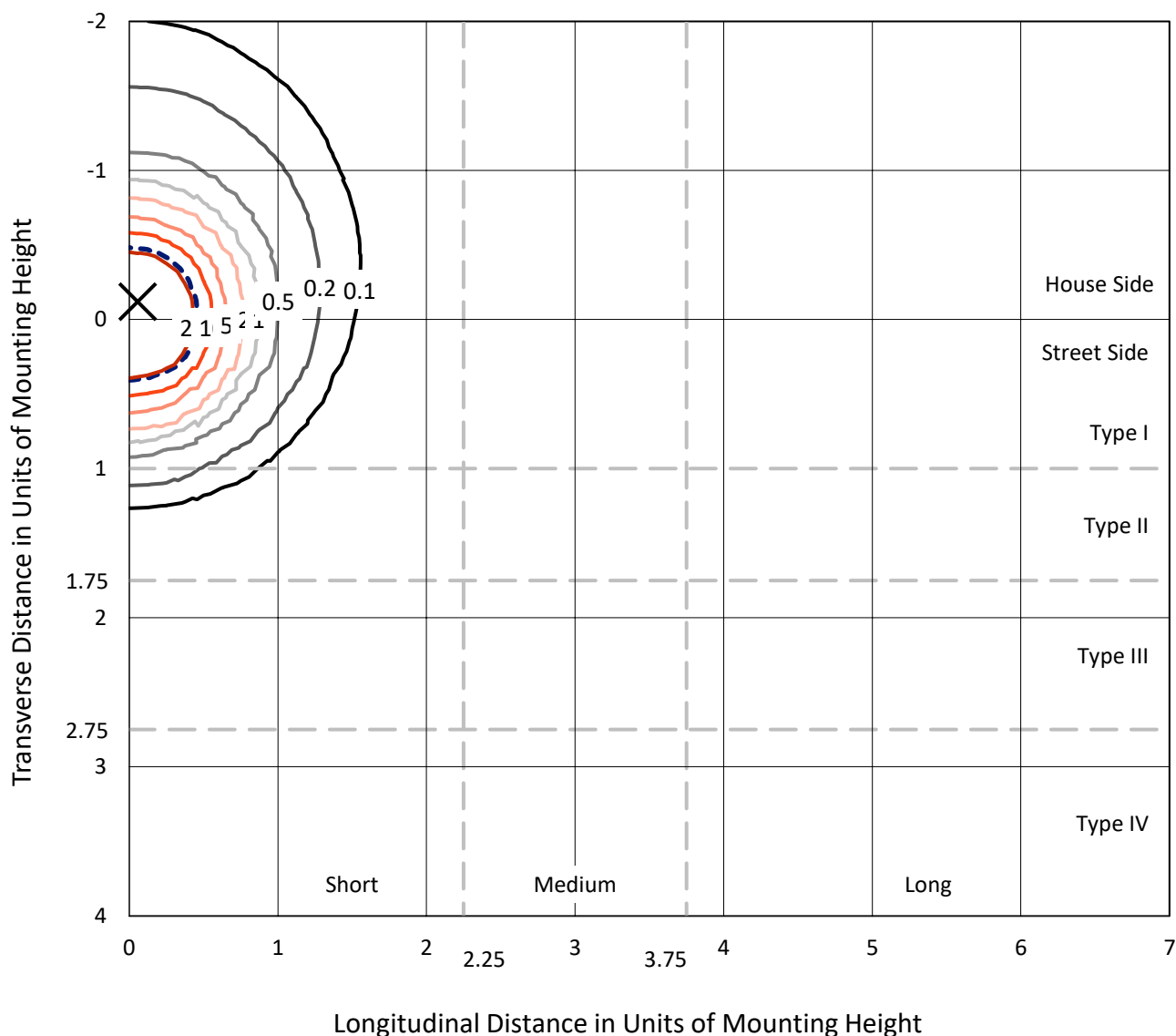
REPORT NUMBER: P637535

CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

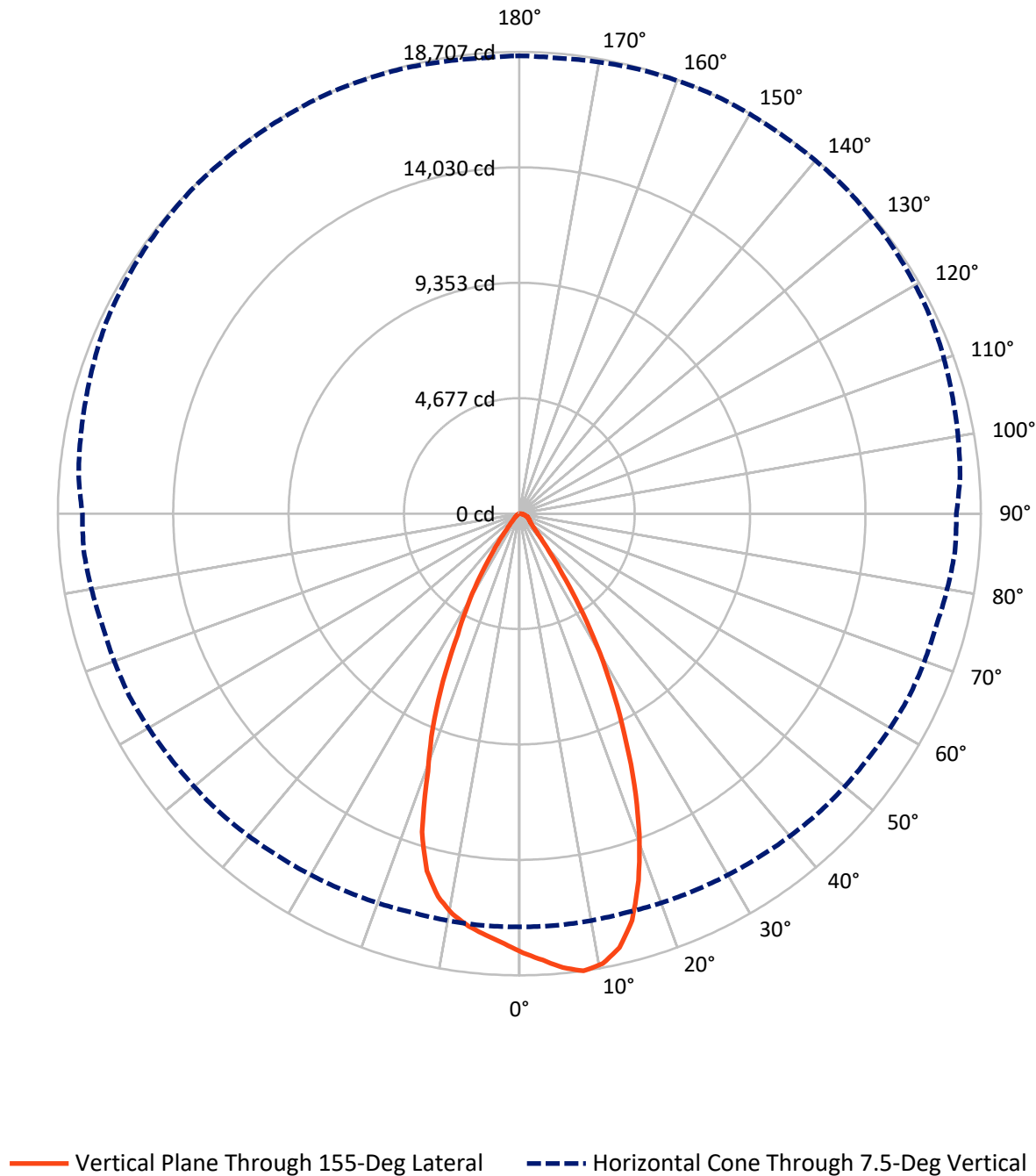


Based on 20 foot mounting height. Maximum calculated value = 45.2 fc

Type I - Short - N/A

REPORT NUMBER: P637535
CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637535

CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

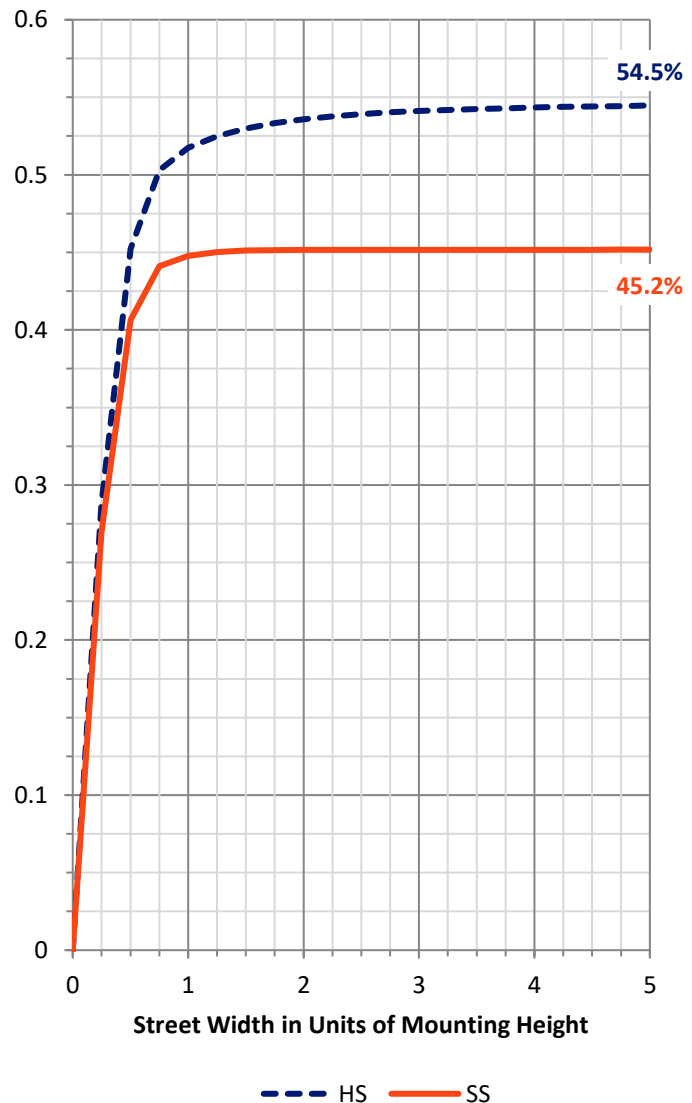
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7053.9	0.0	7053.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5724.0	0.0	5724.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	12777.9	0.0	12777.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1697.4	13.3
10°-20°	4401.4	34.4
20°-30°	4032.9	31.6
30°-40°	1629.3	12.8
40°-50°	478.0	3.7
50°-60°	267.2	2.1
60°-70°	162.3	1.3
70°-80°	82.5	0.6
80°-90°	27.0	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°	12777.9	100.0
0°-180°	12777.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637535

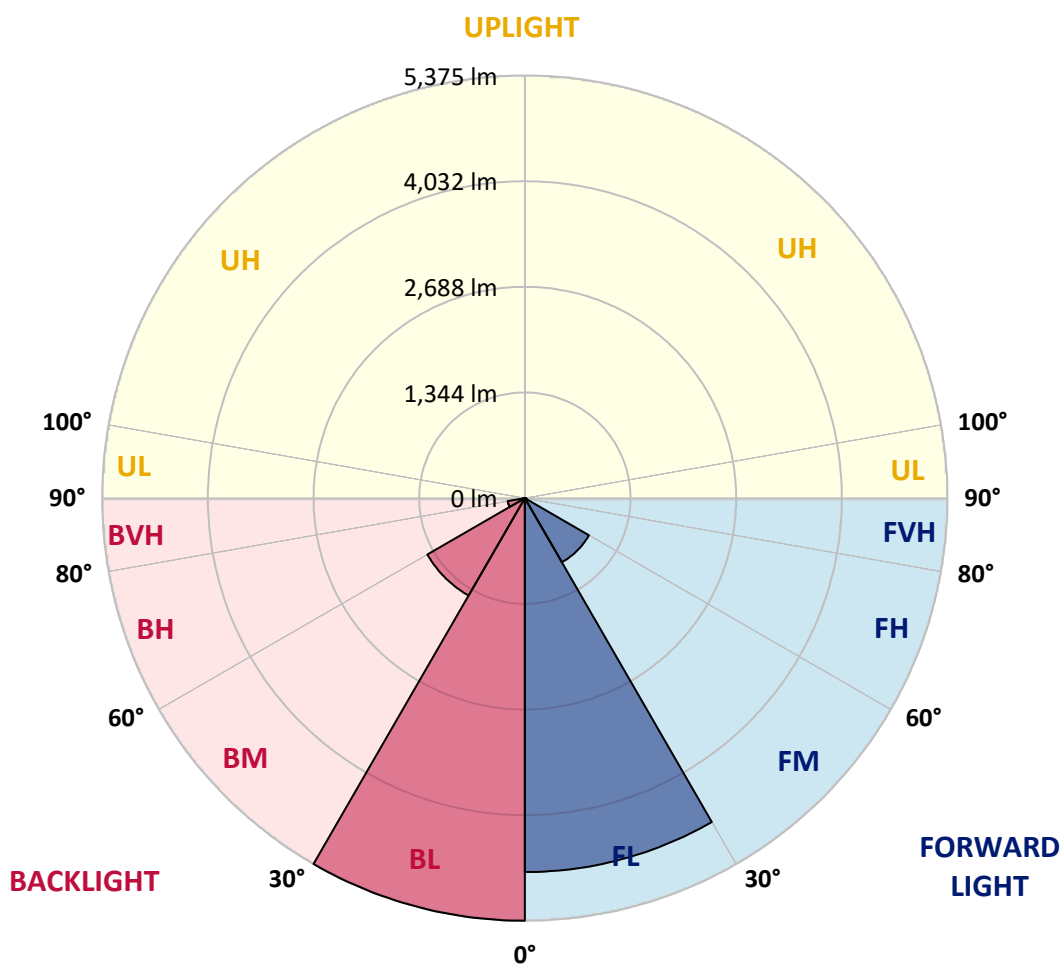
CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4756.3	37.2			
FM	(30°-60°)	942.6	7.4			
FH	(60°-80°)	22.8	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5375.4	42.1	B5		
BM	(30°-60°)	1431.9	11.2	B2/2500		
BH	(60°-80°)	222.0	1.7	B1/500		G1/500
BVH	(80°-90°)	24.6	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



REPORT NUMBER: P637535

CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6
2.5°	17414.6	17473.5	17355.7	17433.7	17494.2	17638.6	17650.3	17700.4	17718.1	17849.3
5°	17084.5	17130.2	17034.4	17139.1	17224.5	17352.7	17451.4	17589.9	17666.6	17821.3
7.5°	16741.2	16751.5	16732.4	16842.9	16971.1	17147.9	17270.2	17451.4	17498.6	17719.6
10°	16325.7	16250.6	16287.4	16449.5	16641.0	16912.1	16996.1	17177.4	17261.4	17486.8
12.5°	15662.7	15701.0	15655.3	15861.6	16020.7	16328.7	16417.1	16599.8	16760.4	16959.3
15°	14728.5	14706.4	14799.2	14959.8	15132.2	15376.8	15519.7	15718.7	15841.0	16047.2
17.5°	12628.9	12704.0	13087.1	13489.3	13843.0	14128.8	14299.7	14464.8	14553.2	14777.1
20°	10906.4	10812.1	10863.7	11090.6	12096.9	12534.6	12714.3	12754.1	12790.9	12967.7
22.5°	8980.6	8949.7	9122.1	9377.0	9615.7	10625.0	10869.6	10776.7	10853.4	11019.9
25°	6668.8	6825.0	6978.2	7467.4	7776.8	8271.9	8736.0	8777.3	8805.3	8909.9
27.5°	5428.2	5373.6	5370.7	5507.7	5964.5	6377.1	6771.9	6863.3	6847.1	6947.3
30°	4267.1	4249.4	4187.5	4219.9	4174.3	4541.1	4726.8	5102.5	5081.9	5084.8
32.5°	3078.0	3011.7	2986.7	3035.3	2988.1	2954.2	3116.3	3540.7	3533.3	3562.8
35°	1862.4	1853.6	1874.2	1916.9	1822.6	1819.7	1853.6	2252.9	2301.5	2348.7
37.5°	1028.5	1019.6	1035.8	1193.5	1162.5	1134.5	1143.4	1354.1	1494.1	1529.4
40°	677.8	676.3	688.1	716.1	769.1	758.8	763.2	857.5	990.2	1021.1
42.5°	453.8	455.3	462.7	495.1	502.4	555.5	546.6	568.7	692.5	719.0
45°	362.5	361.0	365.4	350.7	359.5	414.0	419.9	421.4	527.5	543.7
47.5°	285.8	285.8	290.3	271.1	266.7	300.6	331.5	335.9	421.4	443.5
50°	200.4	200.4	222.5	213.6	224.0	234.3	268.2	272.6	344.8	368.4
52.5°	147.3	150.3	153.2	154.7	188.6	187.1	216.6	237.2	260.8	302.1
55°	112.0	114.9	107.6	114.9	140.0	156.2	162.1	191.5	207.8	253.4
57.5°	73.7	81.0	75.1	88.4	94.3	120.8	129.7	157.7	168.0	207.8
60°	10.3	11.8	19.2	61.9	66.3	79.6	100.2	125.2	135.6	169.4
62.5°	1.5	1.5	4.4	10.3	44.2	53.0	75.1	86.9	100.2	126.7
65°	0.0	0.0	1.5	2.9	8.8	30.9	38.3	47.2	69.3	91.4
67.5°	0.0	0.0	1.5	2.9	4.4	10.3	16.2	30.9	39.8	63.4
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.8	23.6	36.8
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	8.8	10.3	23.6
75°	0.0	0.0	1.5	2.9	4.4	7.4	8.8	8.8	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	7.4	7.4
80°	0.0	0.0	1.5	4.4	7.4	10.3	11.8	8.8	5.9	4.4
82.5°	0.0	0.0	1.5	4.4	7.4	10.3	11.8	10.3	5.9	4.4
85°	0.0	0.0	1.5	4.4	5.9	7.4	11.8	10.3	5.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	5.9	4.4	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637535

CATALOG NUMBER: IFLD-M-SA4A-722-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17800.6	0°	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6	17800.6
17846.3	2.5°	17978.9	18045.2	18161.6	18194.0	18294.2	18179.3	18116.0	18121.8	17984.8
17802.1	5°	17978.9	18130.7	18334.0	18431.3	18504.9	18499.0	18482.8	18441.6	18341.4
17713.7	7.5°	17931.8	18179.3	18459.3	18588.9	18677.3	18670.0	18706.8	18640.5	18518.2
17556.0	10°	17780.0	17995.1	18339.9	18446.0	18588.9	18591.9	18546.2	18559.5	18341.4
16979.9	12.5°	17302.6	17470.6	17772.6	17893.5	18067.3	18095.3	18045.2	18026.1	17819.8
16035.5	15°	16378.8	16476.0	16779.5	16900.4	17072.8	17049.2	17099.3	17078.6	16897.4
14759.5	17.5°	15027.6	15058.6	15376.8	15478.5	15640.6	15703.9	15628.8	15724.6	15568.4
12998.7	20°	13090.0	13256.5	13614.6	13770.8	13865.1	13978.5	13879.8	13987.4	13804.7
10862.2	22.5°	11124.5	11223.2	11547.4	11772.8	11948.1	11970.2	11933.4	12008.5	11762.5
8979.1	25°	8977.7	9141.2	9397.6	9692.3	9864.7	9970.8	9875.0	9923.6	9883.8
6963.5	27.5°	7081.4	7227.2	7420.2	7639.8	7899.1	8037.6	7961.0	8043.5	7849.0
5192.4	30°	5196.8	5270.5	5488.6	5721.4	6005.7	6173.7	6181.1	6265.1	6150.1
3637.9	32.5°	3664.4	3729.3	3863.4	4018.1	4289.2	4476.3	4446.8	4458.6	4387.9
2370.8	35°	2382.6	2469.5	2565.3	2638.9	2802.5	3008.8	2992.6	2977.8	2929.2
1558.9	37.5°	1592.8	1626.7	1679.7	1746.0	1852.1	1981.8	2024.5	1971.5	1950.8
1052.0	40°	1077.1	1136.0	1171.4	1221.5	1271.6	1380.6	1410.1	1399.8	1379.1
736.7	42.5°	764.7	810.4	854.6	903.2	929.7	997.5	1055.0	1038.8	1029.9
559.9	45°	580.5	621.8	673.4	710.2	736.7	776.5	831.0	836.9	823.7
449.4	47.5°	465.6	502.4	543.7	589.4	620.3	645.4	692.5	710.2	701.4
378.7	50°	394.9	422.9	462.7	508.3	542.2	564.3	605.6	624.7	618.8
316.8	52.5°	335.9	369.8	406.7	445.0	486.2	508.3	546.6	574.6	570.2
262.3	55°	278.5	322.7	361.0	399.3	446.5	468.6	502.4	539.3	531.9
222.5	57.5°	243.1	280.0	319.7	356.6	406.7	436.1	467.1	505.4	503.9
182.7	60°	203.3	240.2	284.4	315.3	368.4	409.6	437.6	477.4	480.3
138.5	62.5°	162.1	207.8	241.6	284.4	333.0	381.6	408.1	447.9	462.7
106.1	65°	120.8	170.9	209.2	252.0	297.6	352.2	375.7	415.5	430.2
76.6	67.5°	89.9	128.2	176.8	213.6	265.2	312.4	340.4	377.2	387.5
45.7	70°	67.8	98.7	147.3	179.8	232.8	271.1	299.1	327.1	340.4
30.9	72.5°	39.8	73.7	116.4	154.7	200.4	232.8	253.4	275.5	284.4
14.7	75°	28.0	56.0	91.4	128.2	162.1	188.6	207.8	226.9	235.8
7.4	77.5°	14.7	41.3	72.2	103.1	126.7	148.8	168.0	182.7	188.6
5.9	80°	8.8	29.5	58.9	81.0	97.2	116.4	135.6	145.9	144.4
4.4	82.5°	5.9	23.6	42.7	58.9	70.7	85.5	98.7	106.1	106.1
2.9	85°	4.4	16.2	29.5	45.7	47.2	58.9	61.9	69.3	70.7
2.9	87.5°	2.9	10.3	16.2	26.5	25.0	30.9	32.4	36.8	39.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17800.6
17874.3
18373.8
18546.2
18278.0
17772.6
16954.9
15530.1
13789.9
11728.6
9858.8
7899.1
6170.8
4427.7
2886.5
1946.4
1382.1
1022.6
822.2
696.9
617.4
567.3
531.9
502.4
480.3
461.2
428.8
387.5
337.4
281.4
232.8
187.1
142.9
104.6
69.3
38.3
0.0

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