

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: P636456

Luminaire Tested: **IFLD-S-SA3E-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636456
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14284.8 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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



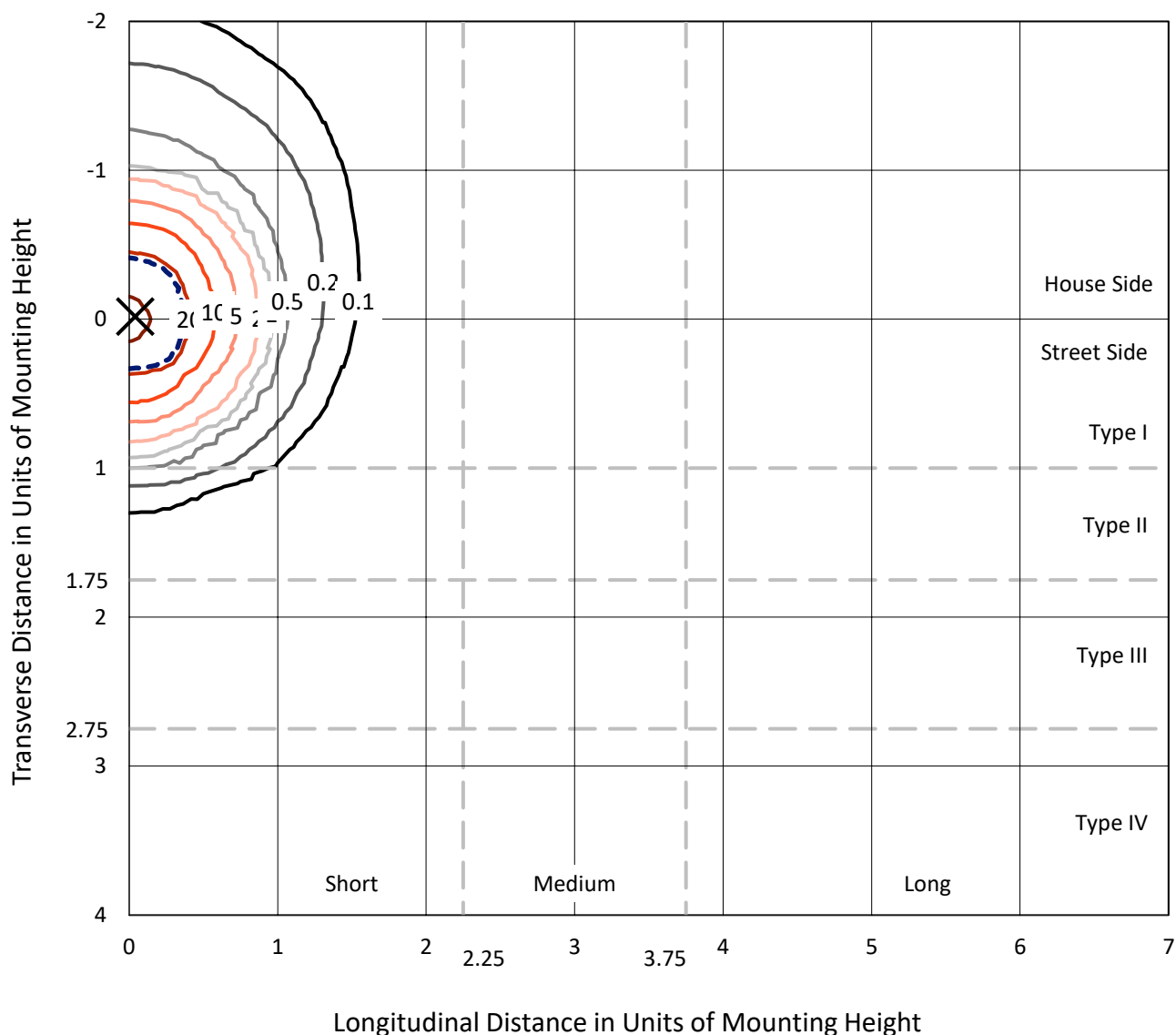
REPORT NUMBER: P636456

CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

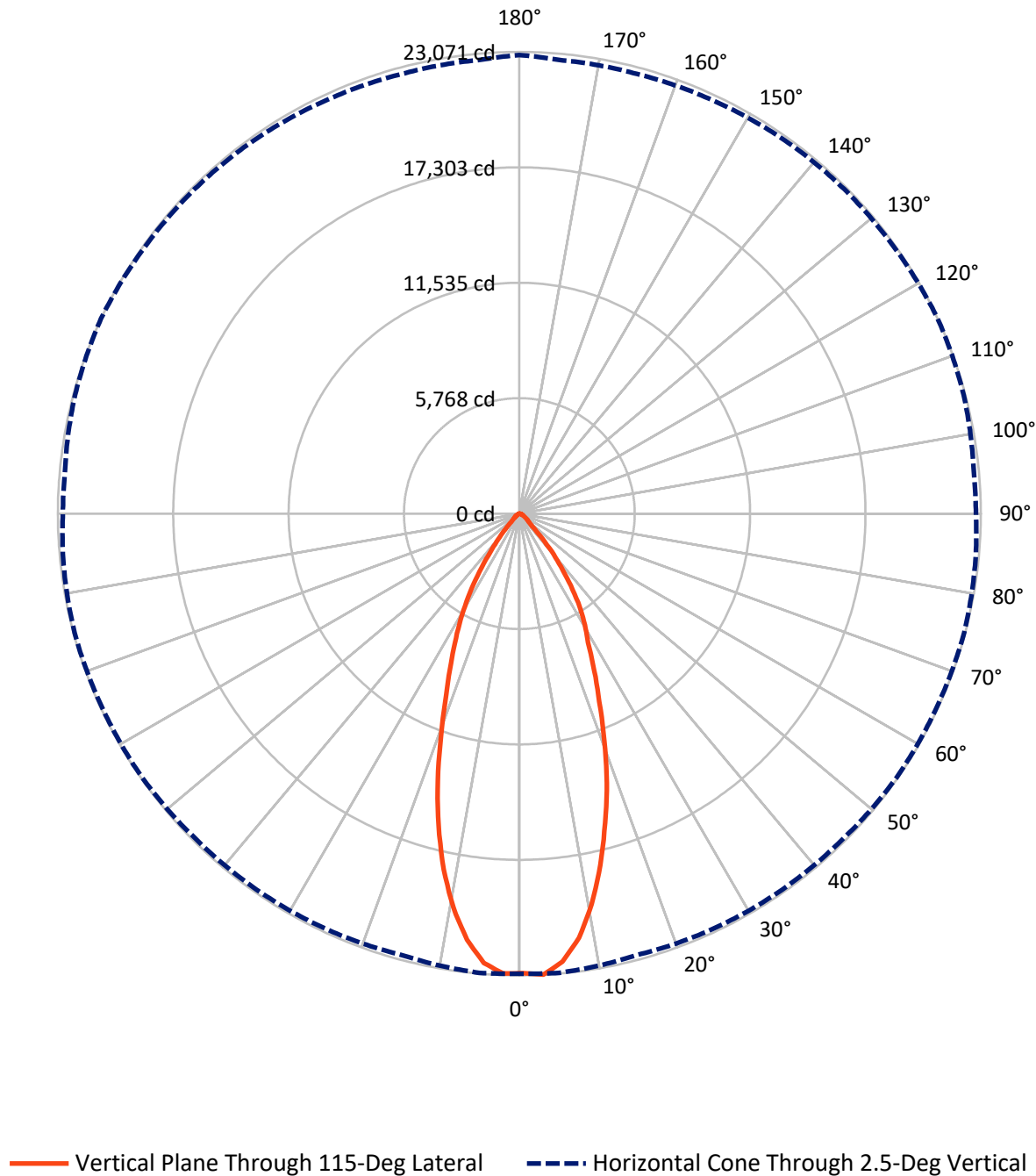


Based on 20 foot mounting height. Maximum calculated value = 57.4 fc

Type I - Short - N/A

REPORT NUMBER: P636456
CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636456

CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

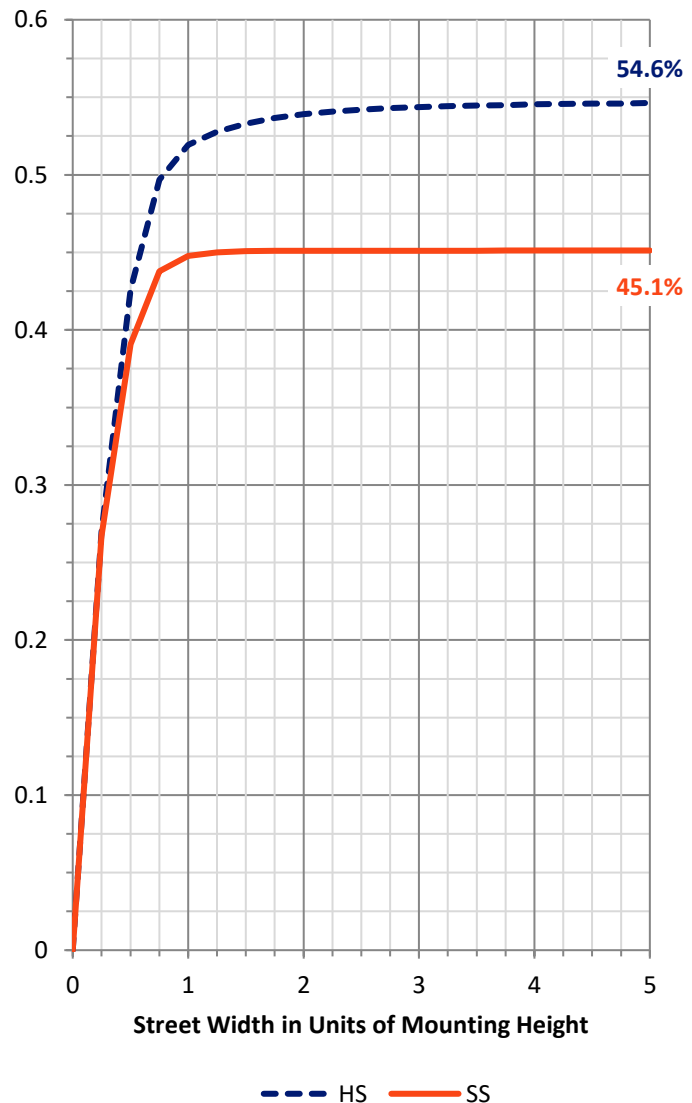
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7883.5	0.0	7883.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6401.3	0.0	6401.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	14284.8	0.0	14284.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2059.6	14.4
10°-20°	4352.9	30.5
20°-30°	3928.8	27.5
30°-40°	2599.9	18.2
40°-50°	778.8	5.5
50°-60°	312.4	2.2
60°-70°	161.8	1.1
70°-80°	70.2	0.5
80°-90°	20.4	0.1
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°	14284.8	100.0
0°-180°	14284.8	100.0

Coefficient of Utilization



REPORT NUMBER: P636456

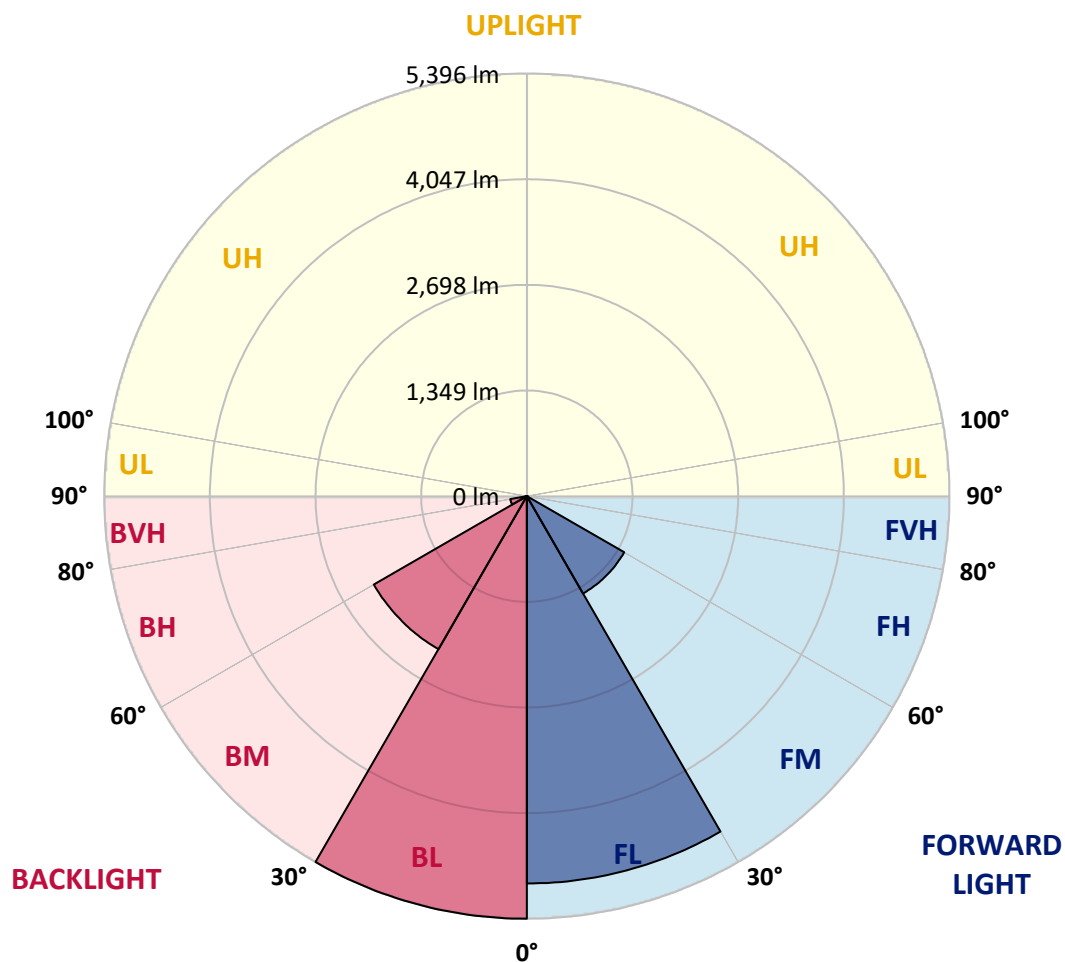
CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4945.5	34.6			
FM	(30°-60°)	1435.0	10.0			
FH	(60°-80°)	17.8	0.1			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	5395.7	37.8	B5		
BM	(30°-60°)	2256.1	15.8	B2/2500		
BH	(60°-80°)	214.2	1.5	B1/500		G1/500
BVH	(80°-90°)	17.5	0.1			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: P636456

CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8
2.5°	22992.1	23033.0	22828.4	22898.6	22927.8	22936.5	23009.6	22997.9	23018.3	22910.3
5°	22688.2	22609.3	22457.4	22460.3	22451.6	22369.8	22536.3	22524.6	22489.6	22361.0
7.5°	21654.0	21768.0	21481.6	21475.8	21470.0	21370.6	21589.7	21455.4	21484.6	21300.5
10°	20140.7	20155.3	19901.1	19877.8	19898.2	19769.7	20023.8	19971.2	20026.7	19833.9
12.5°	18285.5	18367.3	18086.9	18046.0	18127.8	17946.7	18151.2	18177.5	18095.7	18069.4
15°	14341.5	14557.7	15089.4	15901.6	16112.0	15960.0	16123.7	16120.7	16155.8	15957.1
17.5°	10926.3	10946.8	10821.2	11209.7	13459.3	14189.6	14224.7	13947.1	13736.8	13663.8
20°	9538.6	9608.7	9494.8	9526.9	9886.3	12027.7	12109.5	11691.8	11332.4	11303.2
22.5°	8434.3	8478.1	8396.3	8422.6	8440.2	8691.4	10114.2	9746.1	9573.7	9442.2
25°	7499.4	7499.4	7455.6	7464.4	7446.9	7075.8	7806.2	8226.9	8127.6	8080.8
27.5°	6646.4	6658.1	6602.5	6634.7	6421.4	5822.5	5734.9	6976.5	6871.3	6786.6
30°	5837.1	5875.1	5822.5	5840.0	5375.5	4884.7	4633.5	5819.6	5951.1	5927.7
32.5°	4393.9	4566.3	4989.9	5007.4	4376.4	3999.5	3888.5	4671.4	5171.0	5127.2
35°	2722.8	2714.1	2731.6	3573.0	3356.8	3099.7	3140.6	3529.1	4093.0	4072.5
37.5°	2077.2	2074.3	2106.4	2021.7	2199.9	2351.8	2383.9	2383.9	2988.7	2991.6
40°	1574.7	1563.0	1560.1	1425.7	1194.9	1764.6	1712.0	1668.2	2077.2	2121.0
42.5°	1005.0	1040.0	1013.8	867.7	780.0	964.1	1075.1	1040.0	1282.5	1314.7
45°	560.9	560.9	537.6	455.8	452.8	487.9	613.5	572.6	657.3	701.2
47.5°	271.7	265.9	292.1	359.3	373.9	362.3	438.2	455.8	496.7	537.6
50°	219.1	219.1	207.4	187.0	309.7	298.0	324.3	347.7	371.0	406.1
52.5°	184.1	184.1	169.4	157.8	178.2	227.9	230.8	274.6	271.7	321.4
55°	93.5	96.4	137.3	137.3	119.8	187.0	189.9	222.0	227.9	268.8
57.5°	8.8	11.7	17.5	84.7	93.5	102.3	143.2	163.6	189.9	207.4
60°	2.9	2.9	5.8	11.7	55.5	70.1	90.6	108.1	131.5	172.4
62.5°	0.0	0.0	2.9	5.8	11.7	43.8	49.7	55.5	78.9	108.1
65°	0.0	0.0	2.9	2.9	5.8	14.6	20.5	35.1	49.7	67.2
67.5°	0.0	0.0	2.9	2.9	5.8	8.8	11.7	17.5	23.4	43.8
70°	0.0	0.0	2.9	2.9	5.8	8.8	8.8	11.7	14.6	20.5
72.5°	0.0	0.0	2.9	2.9	5.8	11.7	8.8	8.8	11.7	14.6
75°	0.0	0.0	2.9	2.9	5.8	8.8	8.8	8.8	8.8	8.8
77.5°	0.0	0.0	2.9	2.9	5.8	8.8	8.8	8.8	5.8	5.8
80°	0.0	0.0	2.9	2.9	5.8	8.8	11.7	11.7	5.8	5.8
82.5°	0.0	0.0	2.9	5.8	5.8	14.6	17.5	14.6	5.8	2.9
85°	0.0	0.0	2.9	2.9	8.8	14.6	14.6	8.8	5.8	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	8.8	8.8	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636456

CATALOG NUMBER: IFLD-S-SA3E-930-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
22962.8	0°	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8	22962.8
22822.6	2.5°	22810.9	22989.1	23070.9	22986.2	22945.3	22886.9	22802.2	22743.7	22755.4
22290.9	5°	22241.2	22428.2	22492.5	22419.4	22358.1	22326.0	22311.3	22340.6	22416.5
21221.6	7.5°	21215.8	21335.6	21405.7	21370.6	21285.9	21382.3	21408.6	21391.1	21502.1
19775.5	10°	19781.3	19912.8	19848.5	19863.1	19763.8	19813.5	19798.9	19863.1	19974.2
18048.9	12.5°	17932.0	18057.7	18008.0	17999.2	17894.1	17987.6	17929.1	17999.2	18145.3
15875.3	15°	15989.3	16068.1	16036.0	15986.3	15892.9	15925.0	16106.1	16094.4	16158.7
13619.9	17.5°	13561.5	13941.3	14148.7	14192.6	14116.6	14180.9	14309.4	14277.3	14423.3
11241.9	20°	11221.4	11604.1	12115.4	12530.2	12539.0	12547.8	12629.6	12650.0	12775.6
9445.1	22.5°	9404.2	9675.9	10225.2	10774.4	11154.2	11233.1	11224.3	11253.5	11288.6
8016.5	25°	7996.1	8194.8	8697.2	9077.0	9743.1	9965.2	10029.4	9965.2	9985.6
6757.4	27.5°	6833.3	7137.2	7303.7	7709.8	8361.3	8875.5	8855.0	8817.0	8822.9
5880.9	30°	5878.0	6205.2	6450.6	6573.3	7064.1	7806.2	7882.2	7774.1	7777.0
5106.7	32.5°	5074.6	5176.9	5539.1	5638.5	5954.0	6628.8	6888.9	6807.0	6792.4
4084.2	35°	4204.0	4259.5	4426.0	4621.8	4808.8	5320.0	5749.5	5673.5	5711.5
3003.3	37.5°	2991.6	3219.5	3380.2	3540.8	3675.2	3996.6	4513.7	4443.6	4481.6
2126.8	40°	2109.3	2211.6	2489.1	2559.2	2757.9	2906.9	3345.1	3321.7	3368.5
1320.5	42.5°	1297.1	1370.2	1510.4	1577.6	1712.0	1796.7	2053.8	2083.0	2144.4
730.4	45°	736.2	768.3	864.8	937.8	1037.1	1072.2	1162.7	1203.6	1238.7
566.8	47.5°	560.9	596.0	660.3	724.5	806.3	835.5	899.8	961.2	993.3
438.2	50°	458.7	490.8	558.0	610.6	692.4	718.7	771.3	838.5	879.4
333.0	52.5°	347.7	394.4	476.2	531.7	616.4	648.6	698.2	765.4	803.4
274.6	55°	286.3	321.4	394.4	470.4	549.2	593.1	625.2	707.0	747.9
225.0	57.5°	245.4	271.7	318.4	409.0	476.2	540.5	566.8	642.7	683.6
178.2	60°	187.0	227.9	268.8	338.9	414.9	482.0	511.3	578.5	610.6
128.5	62.5°	154.8	181.1	233.7	271.7	356.4	426.5	455.8	517.1	540.5
84.7	65°	108.1	146.1	195.7	219.1	298.0	365.2	406.1	452.8	476.2
49.7	67.5°	64.3	108.1	154.8	187.0	242.5	309.7	353.5	397.3	417.8
29.2	70°	40.9	84.7	122.7	157.8	189.9	254.2	306.8	344.7	336.0
17.5	72.5°	23.4	52.6	90.6	128.5	157.8	213.3	262.9	292.1	207.4
11.7	75°	14.6	38.0	76.0	105.2	128.5	169.4	216.2	222.0	128.5
5.8	77.5°	11.7	29.2	58.4	84.7	87.6	125.6	151.9	172.4	96.4
5.8	80°	5.8	23.4	49.7	70.1	55.5	87.6	116.9	134.4	76.0
2.9	82.5°	5.8	14.6	38.0	49.7	40.9	67.2	84.7	96.4	64.3
2.9	85°	2.9	11.7	20.5	29.2	29.2	43.8	38.0	46.7	40.9
2.9	87.5°	2.9	5.8	11.7	14.6	11.7	17.5	20.5	20.5	17.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22962.8
22913.2
22574.3
21613.1
20018.0
18171.6
16173.3
14400.0
12749.3
11224.3
9953.5
8831.6
7779.9
6827.5
5746.6
4513.7
3386.0
2214.5
1235.8
1007.9
896.9
829.7
759.6
701.2
616.4
543.4
476.2
414.9
309.7
184.1
119.8
96.4
78.9
70.1
40.9
14.6
0.0

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