

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: P637727

Luminaire Tested: **IFLD-S-SA2E-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12497.8 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



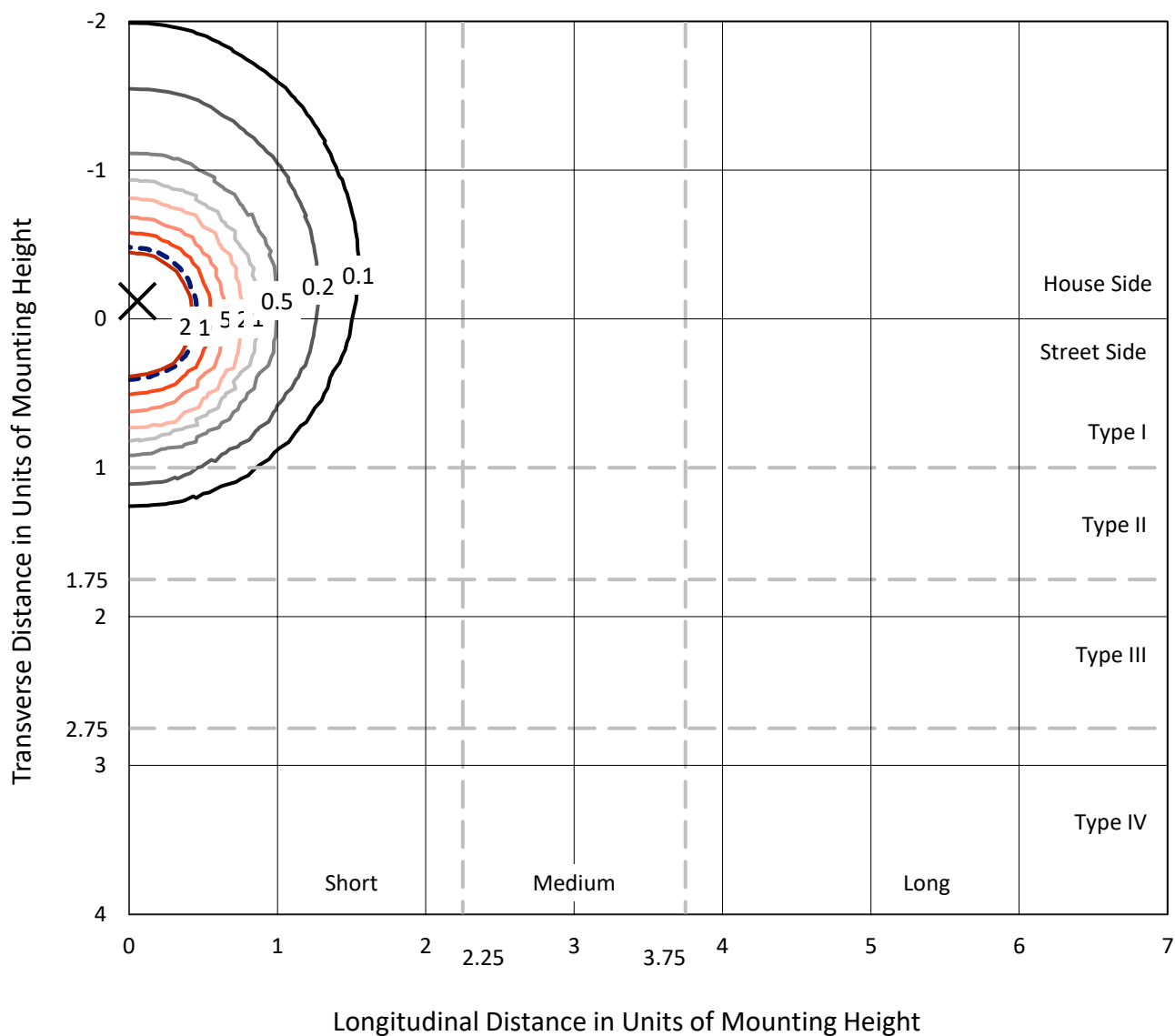
REPORT NUMBER: P637727

CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



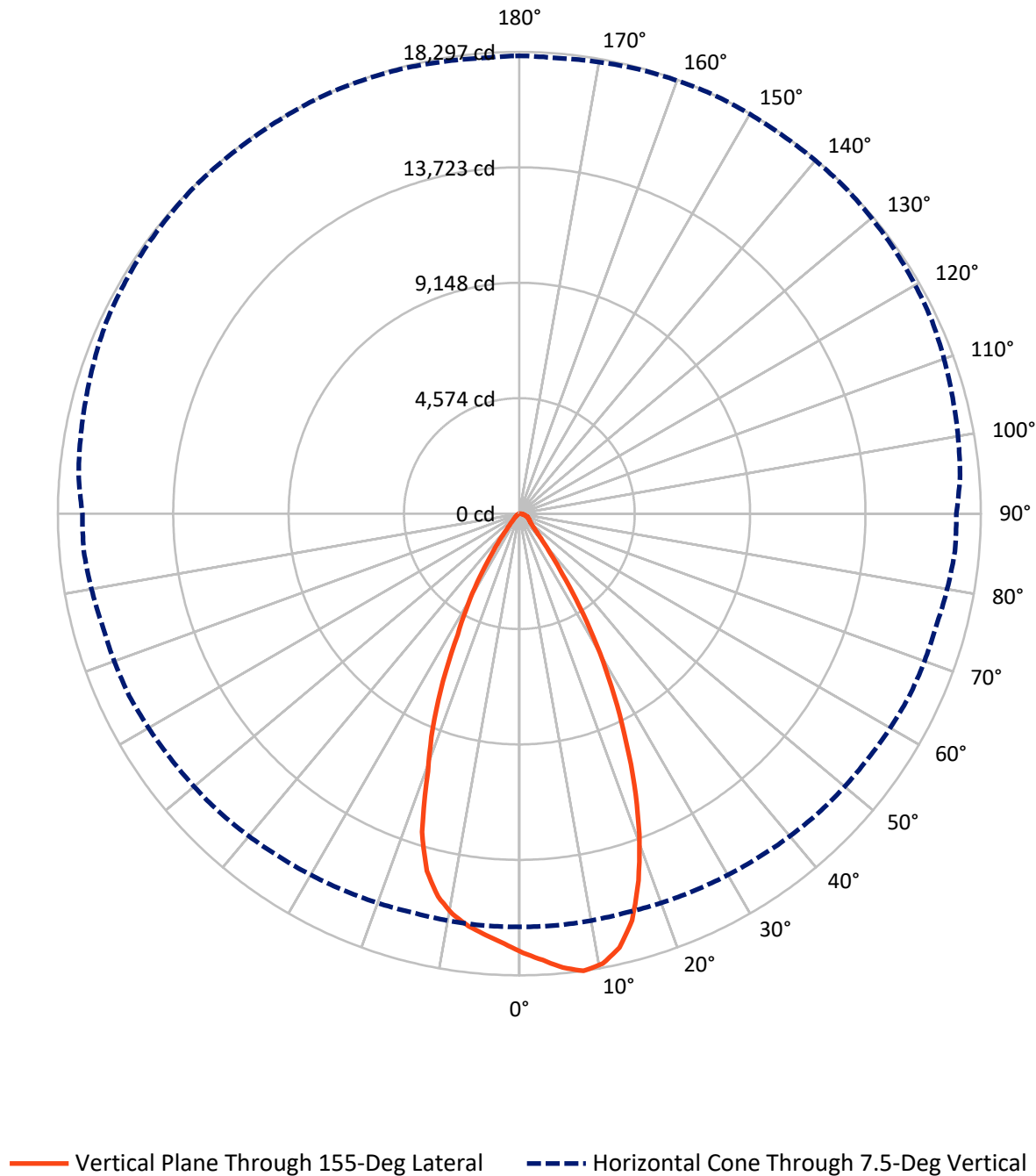
Based on 20 foot mounting height. Maximum calculated value = 44.2 fc

Type I - Short - N/A

REPORT NUMBER: P637727

CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637727

CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

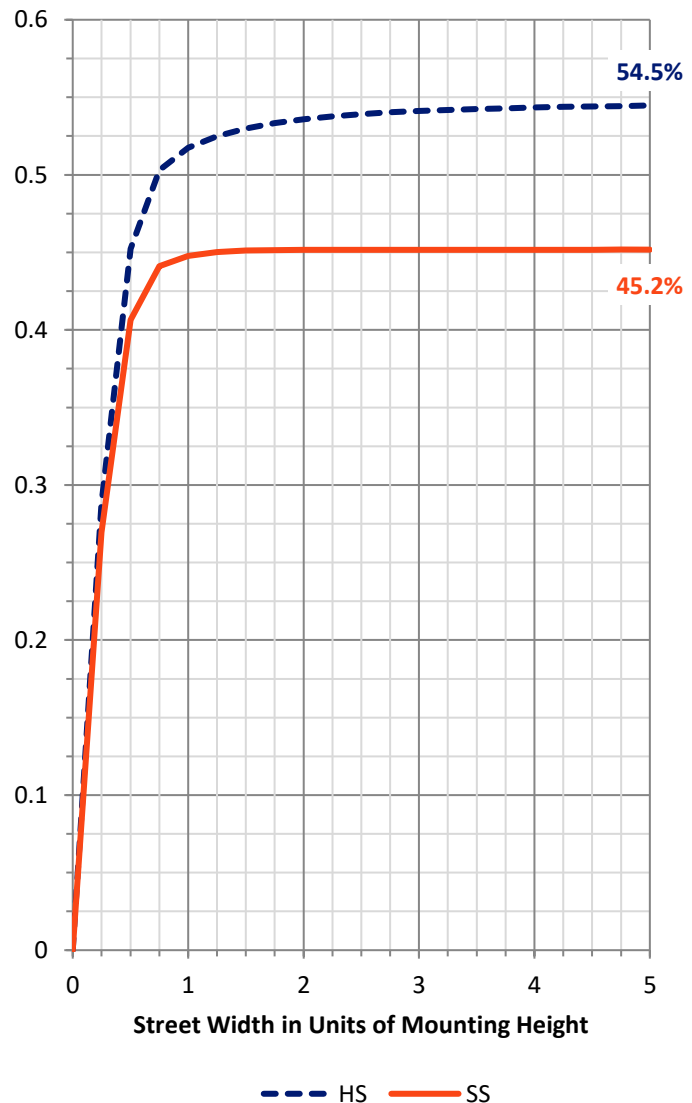
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6899.2	0.0	6899.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5598.5	0.0	5598.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	12497.8	0.0	12497.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1660.2	13.3
10°-20°	4304.9	34.4
20°-30°	3944.5	31.6
30°-40°	1593.6	12.8
40°-50°	467.5	3.7
50°-60°	261.4	2.1
60°-70°	158.8	1.3
70°-80°	80.7	0.6
80°-90°	26.4	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°	12497.8	100.0
0°-180°	12497.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637727

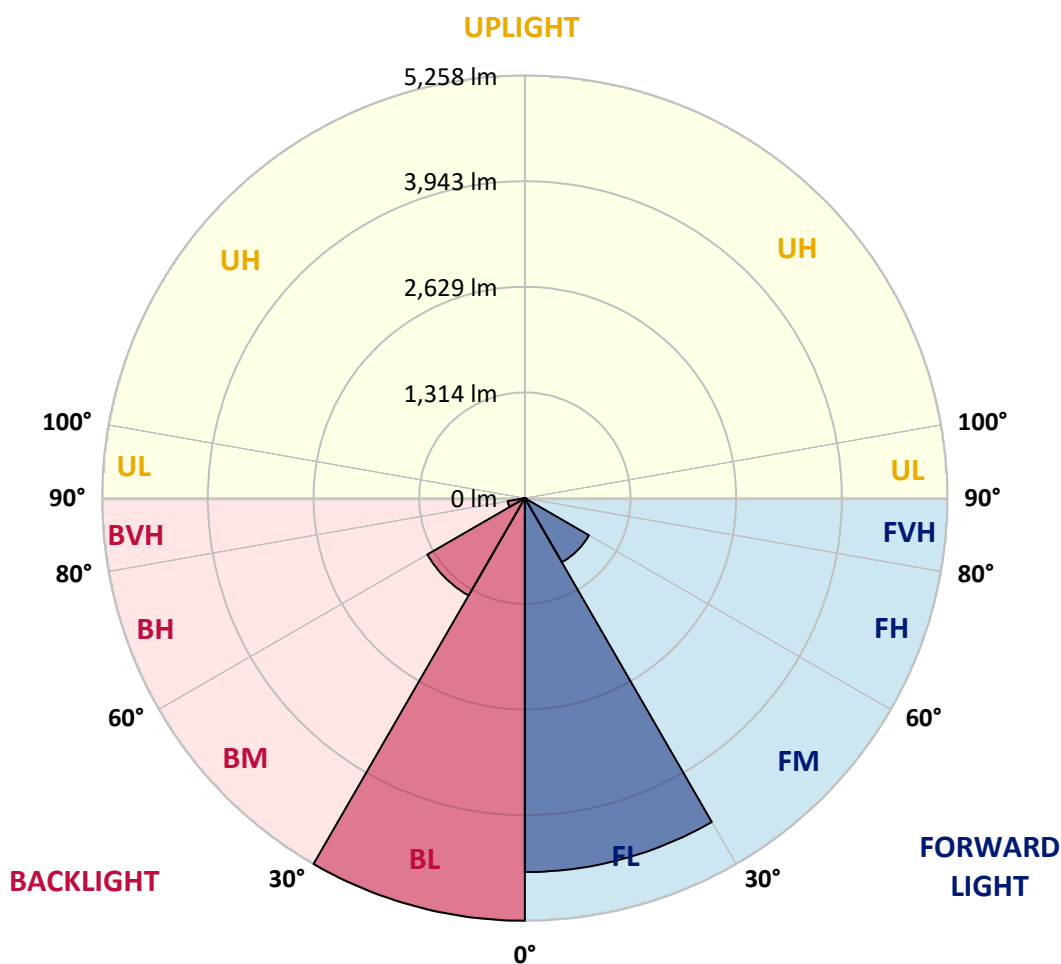
CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4652.0	37.2			
FM	(30°-60°)	921.9	7.4			
FH	(60°-80°)	22.3	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5257.6	42.1	B5		
BM	(30°-60°)	1400.5	11.2	B2/2500		
BH	(60°-80°)	217.1	1.7	B1/500		G1/500
BVH	(80°-90°)	24.1	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: P637727

CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4
2.5°	17032.8	17090.5	16975.2	17051.6	17110.6	17251.9	17263.4	17312.4	17329.7	17458.0
5°	16710.0	16754.7	16661.0	16763.3	16846.9	16972.3	17068.8	17204.3	17279.2	17430.6
7.5°	16374.2	16384.3	16365.6	16473.7	16599.0	16772.0	16891.6	17068.8	17115.0	17331.1
10°	15967.8	15894.3	15930.3	16088.9	16276.2	16541.4	16623.5	16800.8	16882.9	17103.4
12.5°	15319.3	15356.8	15312.1	15513.9	15669.5	15970.7	16057.2	16235.9	16392.9	16587.5
15°	14405.6	14384.0	14474.8	14631.9	14800.5	15039.7	15179.5	15374.1	15493.7	15695.4
17.5°	12352.0	12425.5	12800.2	13193.6	13539.5	13819.1	13986.2	14147.7	14234.1	14453.2
20°	10667.3	10575.1	10625.5	10847.4	11831.7	12259.8	12435.6	12474.5	12510.5	12683.5
22.5°	8783.7	8753.5	8922.1	9171.4	9404.9	10392.0	10631.3	10540.5	10615.4	10778.3
25°	6522.6	6675.4	6825.2	7303.7	7606.3	8090.6	8544.5	8584.9	8612.2	8714.6
27.5°	5309.2	5255.8	5252.9	5387.0	5833.7	6237.2	6623.5	6712.8	6697.0	6795.0
30°	4173.5	4156.2	4095.7	4127.4	4082.7	4441.6	4623.2	4990.7	4970.5	4973.4
32.5°	3010.5	2945.7	2921.2	2968.7	2922.6	2889.5	3048.0	3463.1	3455.8	3484.7
35°	1821.6	1813.0	1833.1	1874.9	1782.7	1779.8	1813.0	2203.5	2251.1	2297.2
37.5°	1005.9	997.3	1013.1	1167.3	1137.1	1109.7	1118.3	1324.4	1461.3	1495.9
40°	662.9	661.5	673.0	700.4	752.3	742.2	746.5	838.7	968.4	998.7
42.5°	443.9	445.3	452.5	484.2	491.4	543.3	534.7	556.3	677.3	703.3
45°	354.5	353.1	357.4	343.0	351.6	405.0	410.7	412.2	515.9	531.8
47.5°	279.6	279.6	283.9	265.2	260.8	294.0	324.3	328.6	412.2	433.8
50°	196.0	196.0	217.6	209.0	219.1	229.1	262.3	266.6	337.2	360.3
52.5°	144.1	147.0	149.9	151.3	184.5	183.0	211.8	232.0	255.1	295.4
55°	109.5	112.4	105.2	112.4	136.9	152.8	158.5	187.3	203.2	247.9
57.5°	72.1	79.3	73.5	86.5	92.2	118.2	126.8	154.2	164.3	203.2
60°	10.1	11.5	18.7	60.5	64.9	77.8	98.0	122.5	132.6	165.7
62.5°	1.4	1.4	4.3	10.1	43.2	51.9	73.5	85.0	98.0	123.9
65°	0.0	0.0	1.4	2.9	8.6	30.3	37.5	46.1	67.7	89.4
67.5°	0.0	0.0	1.4	2.9	4.3	10.1	15.9	30.3	38.9	62.0
70°	0.0	0.0	1.4	2.9	4.3	5.8	8.6	11.5	23.1	36.0
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.1	23.1
75°	0.0	0.0	1.4	2.9	4.3	7.2	8.6	8.6	8.6	10.1
77.5°	0.0	0.0	1.4	2.9	5.8	8.6	10.1	8.6	7.2	7.2
80°	0.0	0.0	1.4	4.3	7.2	10.1	11.5	8.6	5.8	4.3
82.5°	0.0	0.0	1.4	4.3	7.2	10.1	11.5	10.1	5.8	4.3
85°	0.0	0.0	1.4	4.3	5.8	7.2	11.5	10.1	5.8	2.9
87.5°	0.0	0.0	0.0	1.4	1.4	2.9	5.8	4.3	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637727

CATALOG NUMBER: IFLD-S-SA2E-827-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17410.4	0°	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4	17410.4
17455.1	2.5°	17584.8	17649.6	17763.5	17795.2	17893.2	17780.8	17718.8	17724.6	17590.5
17411.8	5°	17584.8	17733.2	17932.1	18027.2	18099.3	18093.5	18077.6	18037.3	17939.3
17325.4	7.5°	17538.7	17780.8	18054.6	18181.4	18267.9	18260.7	18296.7	18231.8	18112.2
17171.2	10°	17390.2	17600.6	17937.9	18041.6	18181.4	18184.3	18139.6	18152.6	17939.3
16607.7	12.5°	16923.3	17087.6	17383.0	17501.2	17671.2	17698.6	17649.6	17630.9	17429.1
15683.9	15°	16019.7	16114.8	16411.7	16529.9	16698.5	16675.4	16724.4	16704.2	16527.0
14435.9	17.5°	14698.2	14728.4	15039.7	15139.2	15297.7	15359.7	15286.2	15379.8	15227.1
12713.7	20°	12803.1	12965.9	13316.1	13468.9	13561.1	13672.1	13575.5	13680.7	13502.0
10624.1	22.5°	10880.6	10977.2	11294.2	11514.7	11686.2	11707.8	11671.8	11745.3	11504.6
8782.3	25°	8780.9	8940.8	9191.6	9479.8	9648.4	9752.2	9658.5	9706.1	9667.2
6810.8	27.5°	6926.1	7068.8	7257.6	7472.3	7725.9	7861.4	7786.5	7867.2	7676.9
5078.6	30°	5082.9	5155.0	5368.2	5595.9	5874.1	6038.4	6045.6	6127.7	6015.3
3558.2	32.5°	3584.1	3647.5	3778.7	3930.0	4195.2	4378.2	4349.4	4360.9	4291.7
2318.8	35°	2330.3	2415.3	2509.0	2581.1	2741.0	2942.8	2927.0	2912.5	2865.0
1524.7	37.5°	1557.9	1591.0	1642.9	1707.7	1811.5	1938.3	1980.1	1928.2	1908.1
1029.0	40°	1053.5	1111.1	1145.7	1194.7	1243.7	1350.3	1379.2	1369.1	1348.9
720.6	42.5°	748.0	792.6	835.9	883.4	909.4	975.7	1031.9	1016.0	1007.4
547.6	45°	567.8	608.2	658.6	694.6	720.6	759.5	812.8	818.6	805.6
439.5	47.5°	455.4	491.4	531.8	576.5	606.7	631.2	677.3	694.6	686.0
370.4	50°	386.2	413.6	452.5	497.2	530.3	552.0	592.3	611.0	605.3
309.8	52.5°	328.6	361.7	397.8	435.2	475.6	497.2	534.7	562.0	557.7
256.5	55°	272.4	315.6	353.1	390.5	436.7	458.3	491.4	527.5	520.3
217.6	57.5°	237.8	273.8	312.7	348.8	397.8	426.6	456.8	494.3	492.9
178.7	60°	198.9	234.9	278.1	308.4	360.3	400.6	428.0	466.9	469.8
135.5	62.5°	158.5	203.2	236.3	278.1	325.7	373.3	399.2	438.1	452.5
103.8	65°	118.2	167.2	204.6	246.4	291.1	344.4	367.5	406.4	420.8
74.9	67.5°	87.9	125.4	172.9	209.0	259.4	305.5	332.9	368.9	379.0
44.7	70°	66.3	96.6	144.1	175.8	227.7	265.2	292.6	319.9	332.9
30.3	72.5°	38.9	72.1	113.8	151.3	196.0	227.7	247.9	269.5	278.1
14.4	75°	27.4	54.8	89.4	125.4	158.5	184.5	203.2	221.9	230.6
7.2	77.5°	14.4	40.4	70.6	100.9	123.9	145.6	164.3	178.7	184.5
5.8	80°	8.6	28.8	57.6	79.3	95.1	113.8	132.6	142.7	141.2
4.3	82.5°	5.8	23.1	41.8	57.6	69.2	83.6	96.6	103.8	103.8
2.9	85°	4.3	15.9	28.8	44.7	46.1	57.6	60.5	67.7	69.2
2.9	87.5°	2.9	10.1	15.9	25.9	24.5	30.3	31.7	36.0	38.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17410.4
17482.5
17971.0
18139.6
17877.3
17383.0
16583.2
15189.6
13487.6
11471.5
9642.7
7725.9
6035.5
4330.6
2823.2
1903.7
1351.8
1000.2
804.2
681.7
603.8
554.8
520.3
491.4
469.8
451.1
419.4
379.0
330.0
275.3
227.7
183.0
139.8
102.3
67.7
37.5
0.0

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