

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: P637755

Luminaire Tested: **IFLD-S-SA2D-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11673.3 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 123.9
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



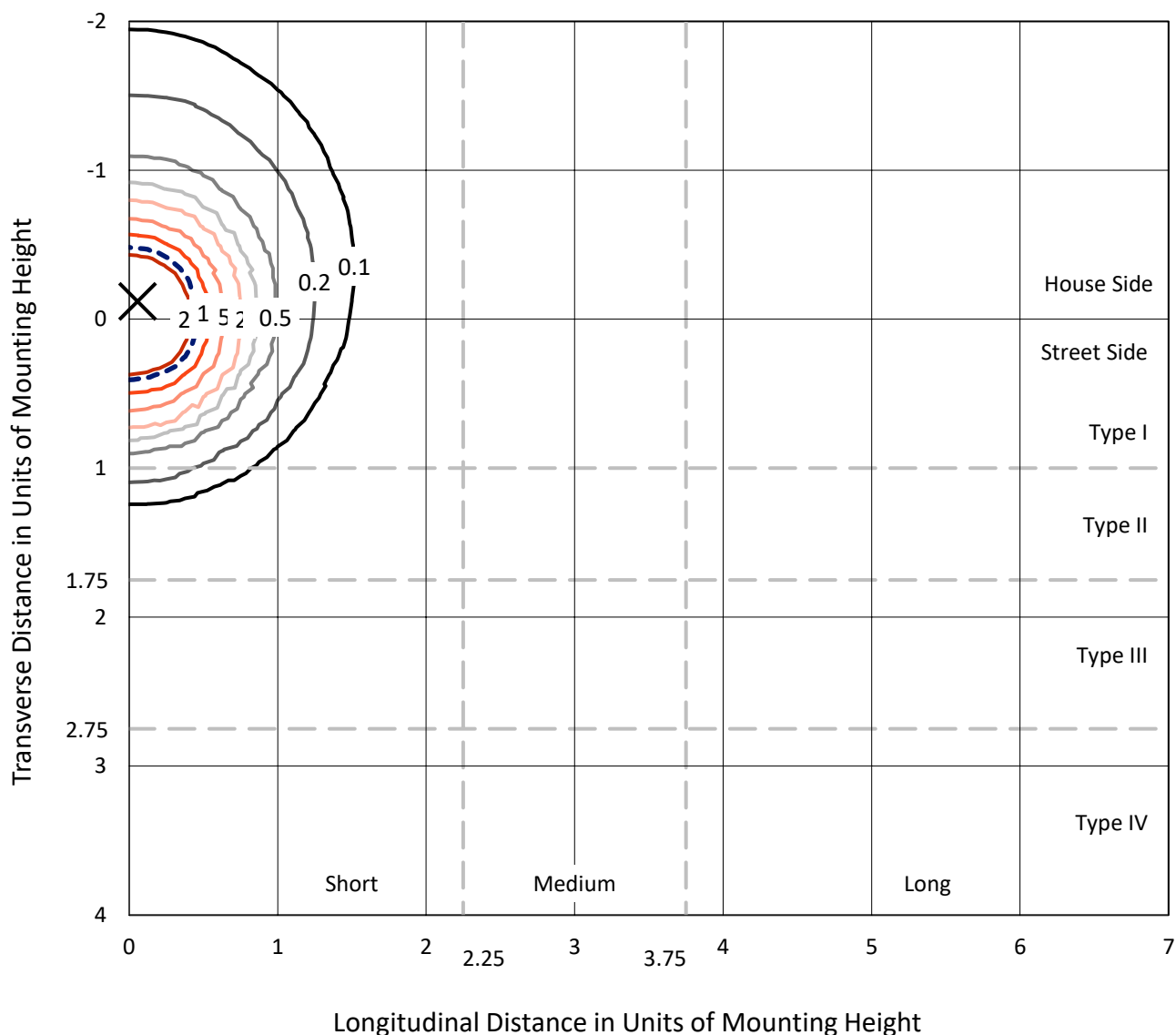
REPORT NUMBER: P637755

CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



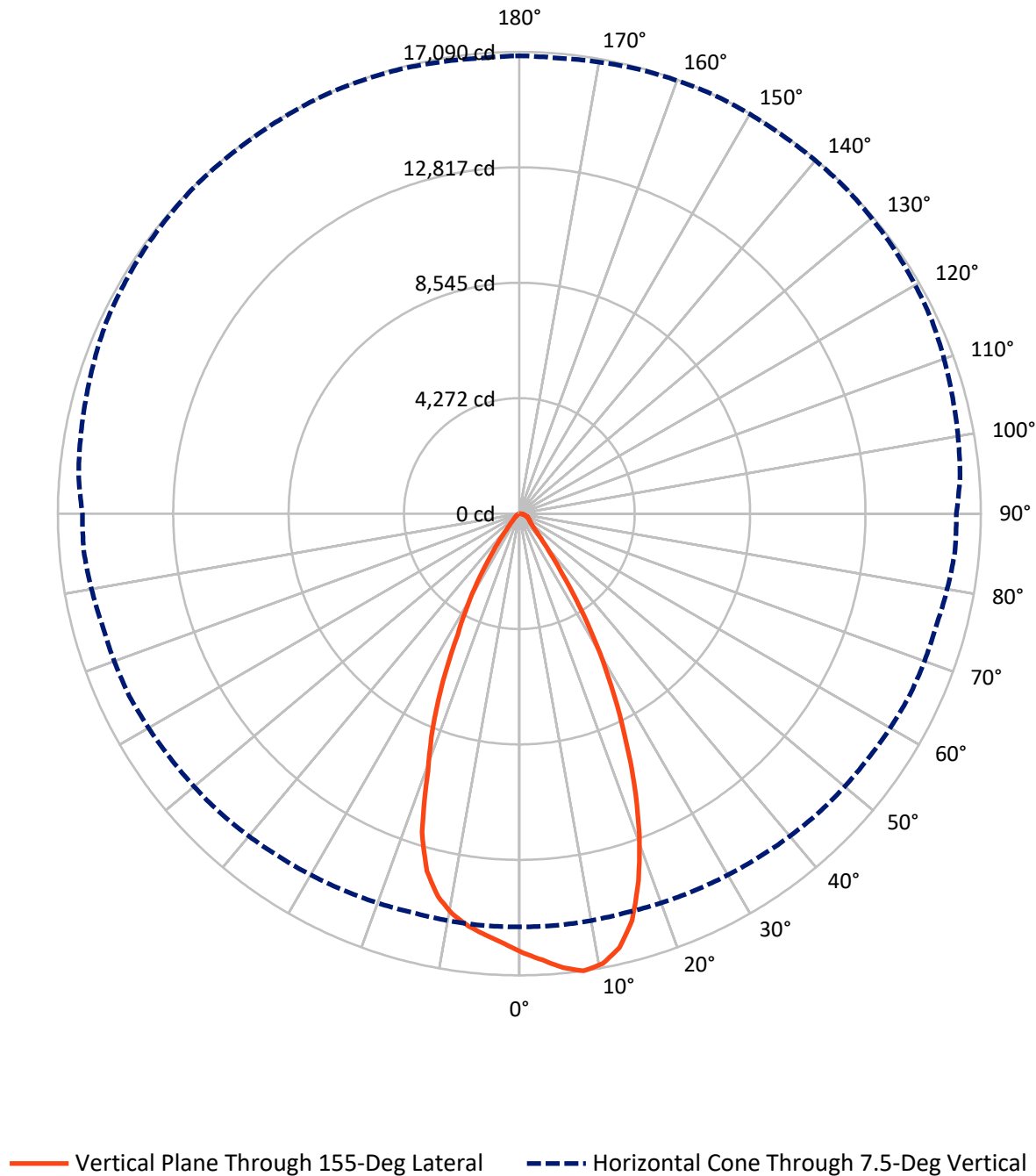
Based on 20 foot mounting height. Maximum calculated value = 41.3 fc

Type I - Short - N/A

REPORT NUMBER: P637755

CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637755

CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

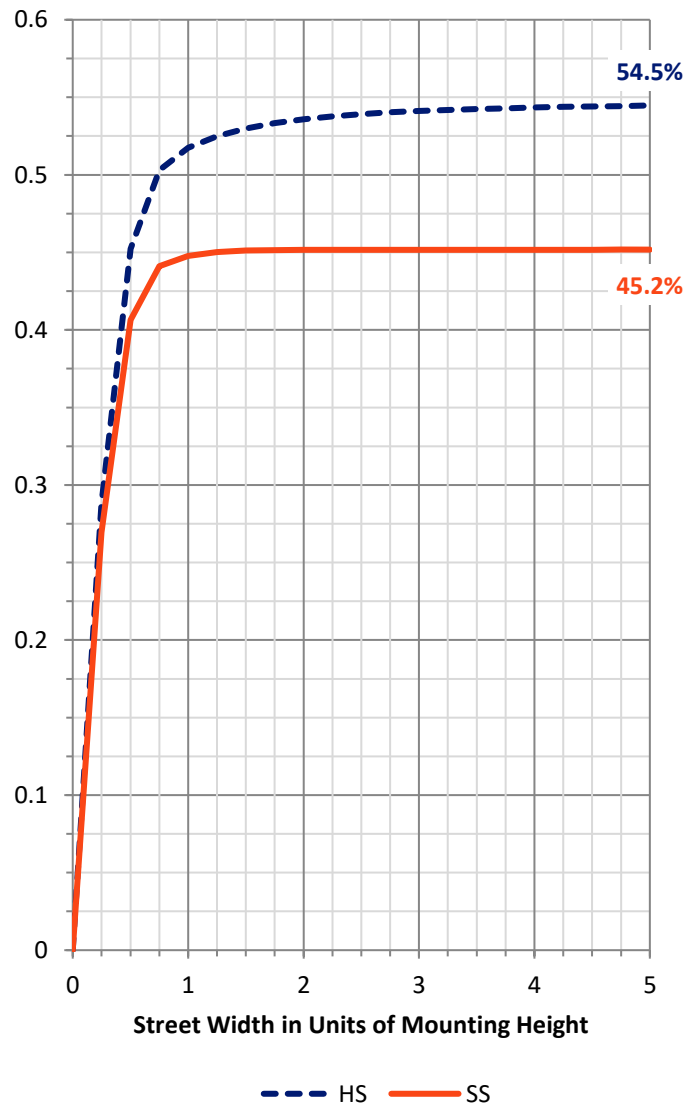
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6444.1	0.0	6444.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5229.2	0.0	5229.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	11673.3	0.0	11673.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1550.7	13.3
10°-20°	4020.9	34.4
20°-30°	3684.3	31.6
30°-40°	1488.4	12.8
40°-50°	436.6	3.7
50°-60°	244.1	2.1
60°-70°	148.3	1.3
70°-80°	75.3	0.6
80°-90°	24.6	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°	11673.3	100.0
0°-180°	11673.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637755

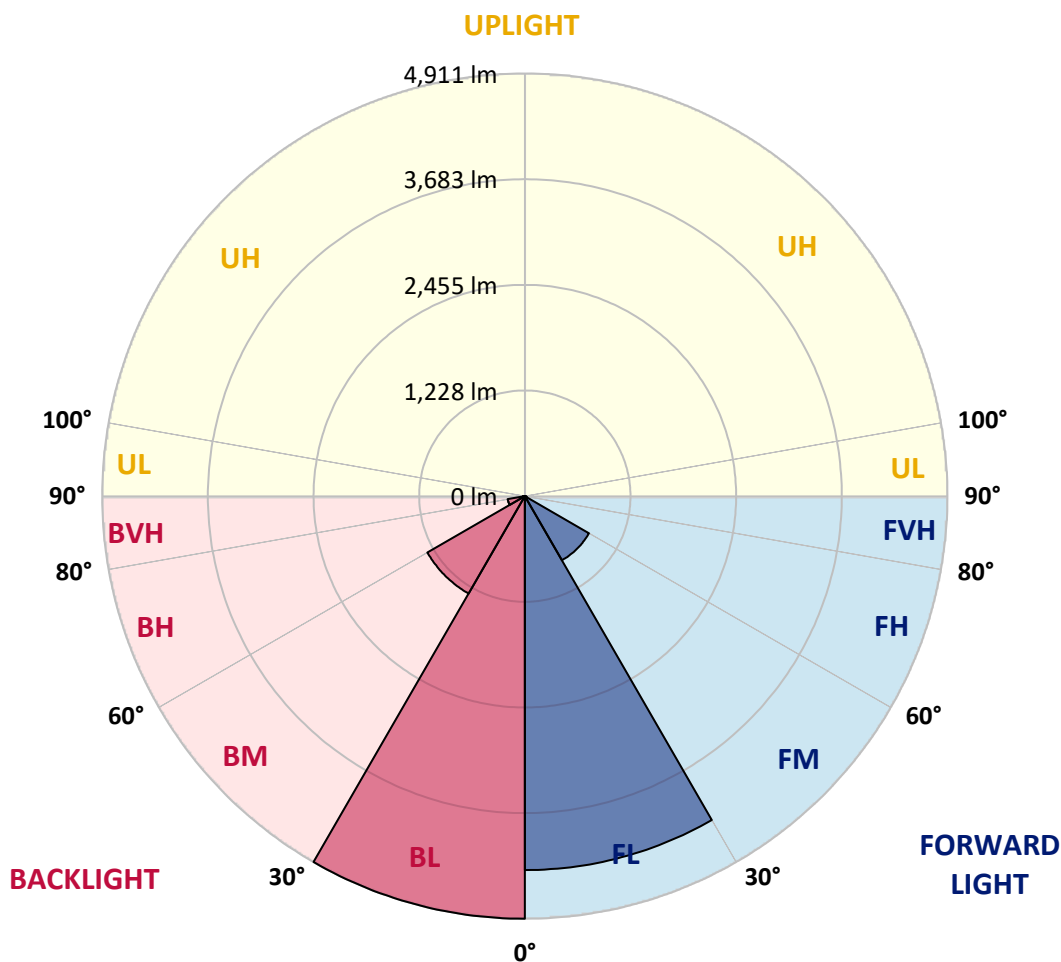
CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4345.1	37.2			
FM	(30°-60°)	861.1	7.4			
FH	(60°-80°)	20.9	0.2			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	4910.7	42.1	B4/5000		
BM	(30°-60°)	1308.1	11.2	B2/2500		
BH	(60°-80°)	202.8	1.7	B1/500		G1/500
BVH	(80°-90°)	22.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



REPORT NUMBER: P637755

CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9
2.5°	15909.2	15963.1	15855.4	15926.7	15981.9	16113.8	16124.6	16170.4	16186.5	16306.3
5°	15607.7	15649.4	15561.9	15657.5	15735.6	15852.7	15942.9	16069.4	16139.4	16280.7
7.5°	15294.1	15303.5	15286.0	15386.9	15504.0	15665.6	15777.3	15942.9	15985.9	16187.9
10°	14914.5	14845.8	14879.5	15027.5	15202.5	15450.2	15526.9	15692.5	15769.2	15975.2
12.5°	14308.7	14343.7	14302.0	14490.5	14635.8	14917.2	14997.9	15164.8	15311.6	15493.3
15°	13455.3	13435.1	13519.9	13666.7	13824.1	14047.6	14178.2	14359.9	14471.6	14660.1
17.5°	11537.2	11605.8	11955.8	12323.3	12646.3	12907.5	13063.6	13214.4	13295.1	13499.7
20°	9963.6	9877.5	9924.6	10131.9	11051.2	11451.0	11615.2	11651.6	11685.2	11846.8
22.5°	8204.3	8176.0	8333.5	8566.4	8784.5	9706.5	9930.0	9845.2	9915.2	10067.3
25°	6092.3	6235.0	6375.0	6821.9	7104.6	7556.8	7980.9	8018.5	8044.1	8139.7
27.5°	4958.9	4909.1	4906.4	5031.6	5448.9	5825.8	6186.5	6270.0	6255.2	6346.7
30°	3898.2	3882.1	3825.5	3855.1	3813.4	4148.6	4318.2	4661.4	4642.6	4645.3
32.5°	2811.9	2751.4	2728.5	2772.9	2729.8	2698.9	2846.9	3234.6	3227.9	3254.8
35°	1701.4	1693.4	1712.2	1751.2	1665.1	1662.4	1693.4	2058.1	2102.6	2145.6
37.5°	939.6	931.5	946.3	1090.3	1062.1	1036.5	1044.6	1237.0	1364.9	1397.2
40°	619.2	617.8	628.6	654.2	702.6	693.2	697.3	783.4	904.6	932.8
42.5°	414.6	415.9	422.7	452.3	459.0	507.5	499.4	519.6	632.7	656.9
45°	331.1	329.8	333.8	320.4	328.4	378.2	383.6	385.0	481.9	496.7
47.5°	261.1	261.1	265.2	247.7	243.6	274.6	302.9	306.9	385.0	405.2
50°	183.1	183.1	203.3	195.2	204.6	214.0	245.0	249.0	315.0	336.5
52.5°	134.6	137.3	140.0	141.3	172.3	171.0	197.9	216.7	238.3	275.9
55°	102.3	105.0	98.3	105.0	127.9	142.7	148.1	175.0	189.8	231.5
57.5°	67.3	74.0	68.6	80.8	86.1	110.4	118.5	144.0	153.5	189.8
60°	9.4	10.8	17.5	56.5	60.6	72.7	91.5	114.4	123.8	154.8
62.5°	1.3	1.3	4.0	9.4	40.4	48.5	68.6	79.4	91.5	115.8
65°	0.0	0.0	1.3	2.7	8.1	28.3	35.0	43.1	63.3	83.5
67.5°	0.0	0.0	1.3	2.7	4.0	9.4	14.8	28.3	36.3	57.9
70°	0.0	0.0	1.3	2.7	4.0	5.4	8.1	10.8	21.5	33.7
72.5°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	8.1	9.4	21.5
75°	0.0	0.0	1.3	2.7	4.0	6.7	8.1	8.1	8.1	9.4
77.5°	0.0	0.0	1.3	2.7	5.4	8.1	9.4	8.1	6.7	6.7
80°	0.0	0.0	1.3	4.0	6.7	9.4	10.8	8.1	5.4	4.0
82.5°	0.0	0.0	1.3	4.0	6.7	9.4	10.8	9.4	5.4	4.0
85°	0.0	0.0	1.3	4.0	5.4	6.7	10.8	9.4	5.4	2.7
87.5°	0.0	0.0	0.0	1.3	1.3	2.7	5.4	4.0	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637755

CATALOG NUMBER: IFLD-S-SA2D-830-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16261.9	0°	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9	16261.9
16303.6	2.5°	16424.8	16485.3	16591.7	16621.3	16712.8	16607.8	16549.9	16555.3	16430.1
16263.2	5°	16424.8	16563.4	16749.2	16838.0	16905.3	16899.9	16885.1	16847.4	16755.9
16182.5	7.5°	16381.7	16607.8	16863.6	16982.0	17062.8	17056.1	17089.7	17029.1	16917.4
16038.4	10°	16243.0	16439.6	16754.5	16851.5	16982.0	16984.7	16943.0	16955.1	16755.9
15512.1	12.5°	15806.9	15960.4	16236.3	16346.7	16505.5	16531.1	16485.3	16467.8	16279.4
14649.3	15°	14962.9	15051.8	15329.1	15439.4	15596.9	15575.4	15621.2	15602.3	15436.7
13483.6	17.5°	13728.6	13756.8	14047.6	14140.5	14288.5	14346.4	14277.8	14365.3	14222.6
11875.0	20°	11958.5	12110.6	12437.7	12580.4	12666.5	12770.2	12680.0	12778.3	12611.3
9923.2	22.5°	10162.8	10253.0	10549.2	10755.1	10915.3	10935.5	10901.8	10970.5	10745.7
8203.0	25°	8201.6	8351.0	8585.2	8854.5	9011.9	9108.9	9021.4	9065.8	9029.4
6361.5	27.5°	6469.2	6602.5	6778.8	6979.4	7216.3	7342.8	7272.8	7348.2	7170.5
4743.6	30°	4747.6	4814.9	5014.1	5226.8	5486.6	5640.0	5646.8	5723.5	5618.5
3323.4	32.5°	3347.7	3406.9	3529.4	3670.7	3918.4	4089.4	4062.4	4073.2	4008.6
2165.8	35°	2176.6	2256.0	2343.5	2410.8	2560.2	2748.7	2733.9	2720.4	2676.0
1424.1	37.5°	1455.1	1486.1	1534.5	1595.1	1692.0	1810.5	1849.5	1801.0	1782.2
961.1	40°	984.0	1037.8	1070.1	1115.9	1161.7	1261.3	1288.2	1278.8	1259.9
673.0	42.5°	698.6	740.3	780.7	825.1	849.4	911.3	963.8	949.0	940.9
511.5	45°	530.4	568.0	615.2	648.8	673.0	709.4	759.2	764.6	752.5
410.6	47.5°	425.4	459.0	496.7	538.4	566.7	589.6	632.7	648.8	640.7
345.9	50°	360.7	386.3	422.7	464.4	495.4	515.5	553.2	570.7	565.3
289.4	52.5°	306.9	337.9	371.5	406.5	444.2	464.4	499.4	525.0	520.9
239.6	55°	254.4	294.8	329.8	364.8	407.9	428.1	459.0	492.7	485.9
203.3	57.5°	222.1	255.8	292.1	325.7	371.5	398.4	426.7	461.7	460.4
166.9	60°	185.8	219.4	259.8	288.1	336.5	374.2	399.8	436.1	438.8
126.5	62.5°	148.1	189.8	220.8	259.8	304.2	348.6	372.9	409.2	422.7
96.9	65°	110.4	156.1	191.1	230.2	271.9	321.7	343.2	379.6	393.1
70.0	67.5°	82.1	117.1	161.5	195.2	242.3	285.4	310.9	344.6	354.0
41.7	70°	61.9	90.2	134.6	164.2	212.7	247.7	273.3	298.8	310.9
28.3	72.5°	36.3	67.3	106.3	141.3	183.1	212.7	231.5	251.7	259.8
13.5	75°	25.6	51.2	83.5	117.1	148.1	172.3	189.8	207.3	215.4
6.7	77.5°	13.5	37.7	66.0	94.2	115.8	136.0	153.5	166.9	172.3
5.4	80°	8.1	26.9	53.8	74.0	88.8	106.3	123.8	133.3	131.9
4.0	82.5°	5.4	21.5	39.0	53.8	64.6	78.1	90.2	96.9	96.9
2.7	85°	4.0	14.8	26.9	41.7	43.1	53.8	56.5	63.3	64.6
2.7	87.5°	2.7	9.4	14.8	24.2	22.9	28.3	29.6	33.7	36.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16261.9
16329.2
16785.5
16943.0
16698.0
16236.3
15489.2
14187.6
12597.9
10714.7
9006.6
7216.3
5637.3
4044.9
2637.0
1778.2
1262.6
934.2
751.1
636.7
564.0
518.2
485.9
459.0
438.8
421.3
391.7
354.0
308.3
257.1
212.7
171.0
130.6
95.6
63.3
35.0
0.0

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