

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: P637734

Luminaire Tested: **IFLD-S-SA6B-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23049 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 244.9
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



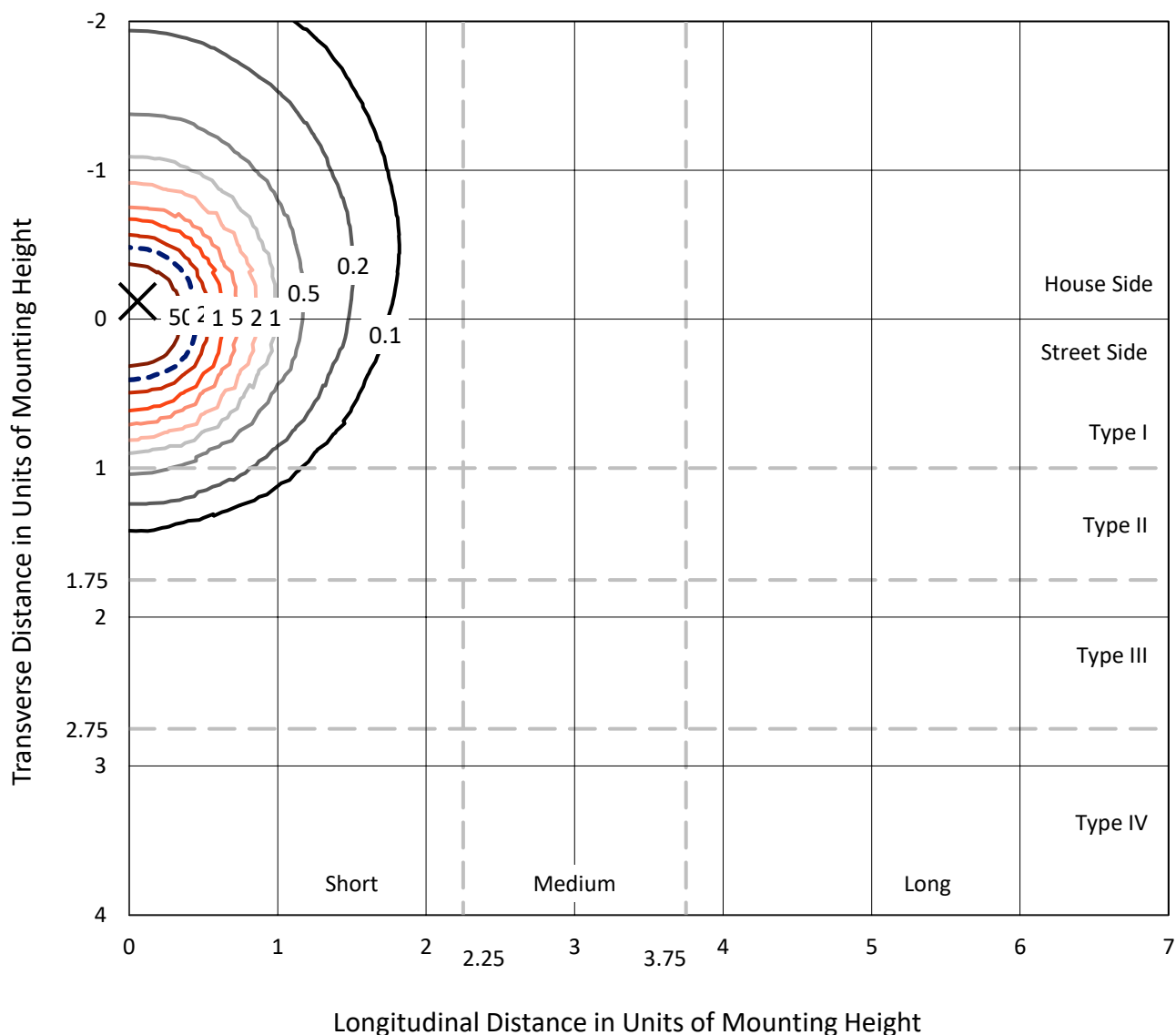
REPORT NUMBER: P637734

CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



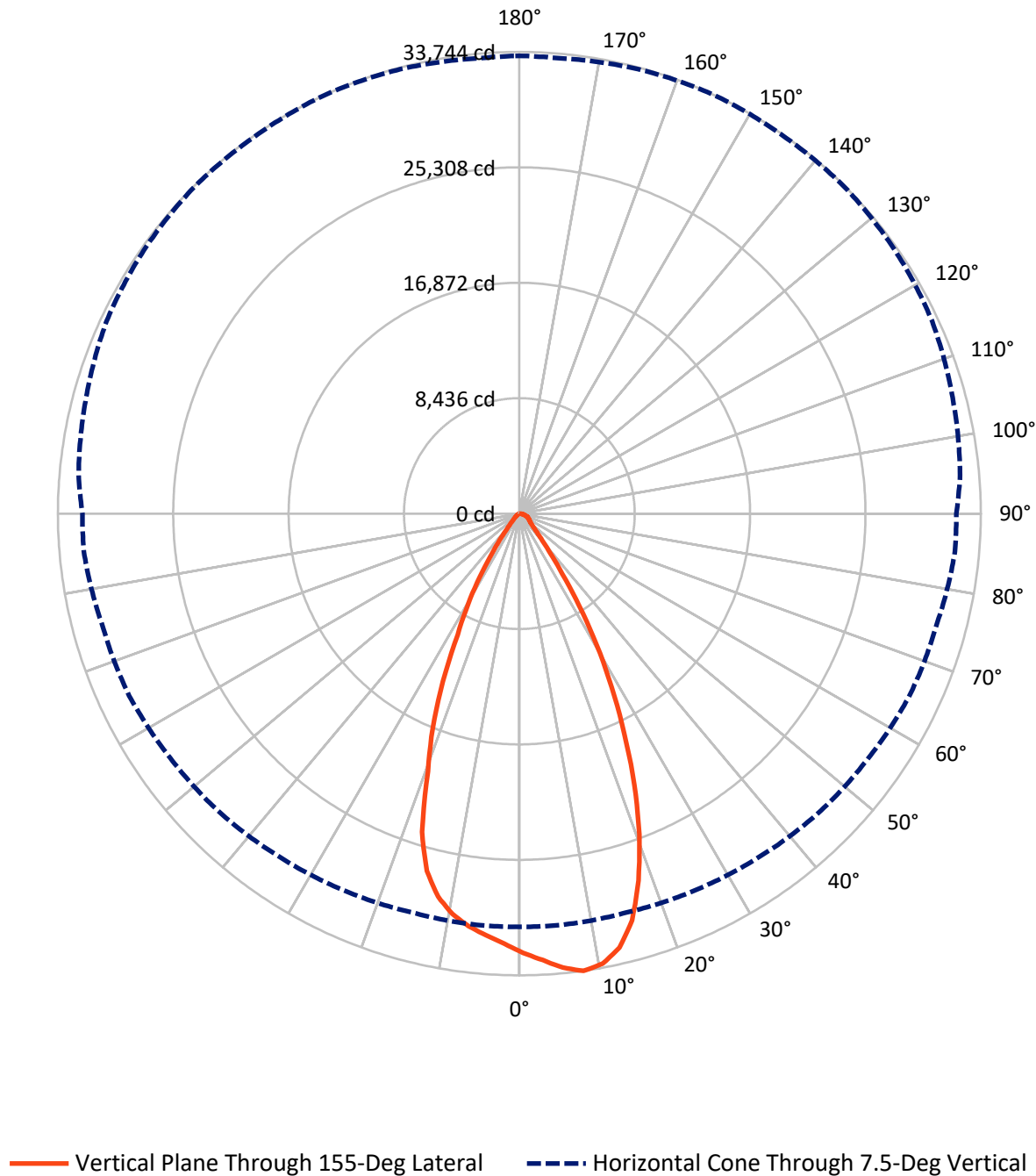
Based on 20 foot mounting height. Maximum calculated value = 81.6 fc

Type I - Short - N/A

REPORT NUMBER: P637734

CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637734

CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

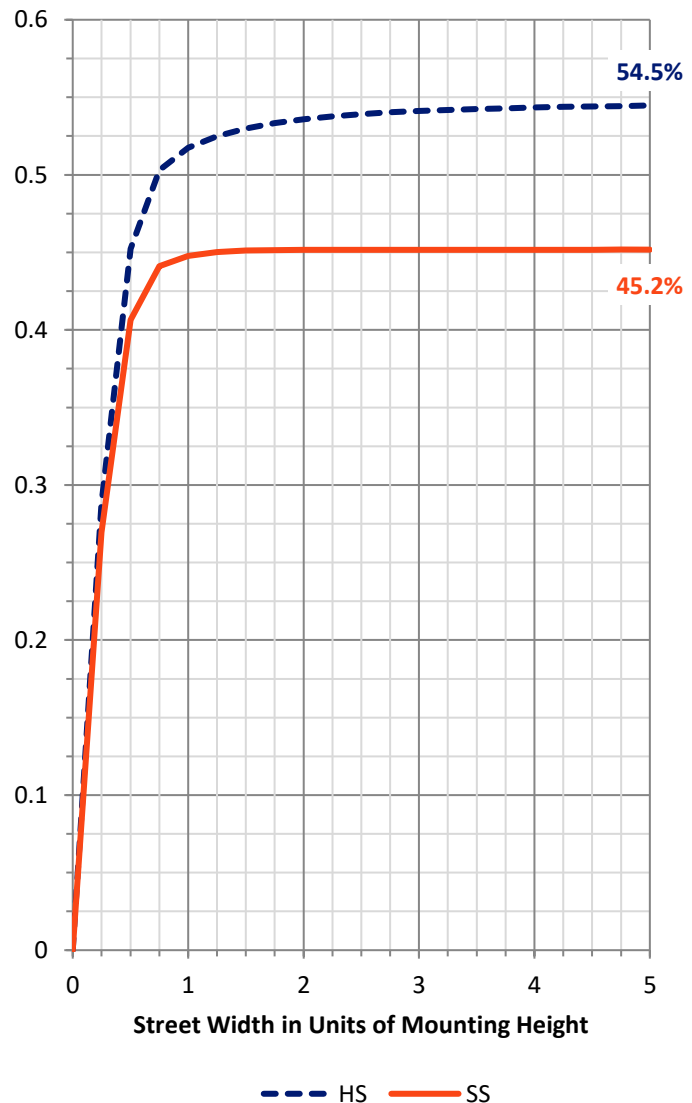
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12723.9	0.0	12723.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10325.1	0.0	10325.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	23049.0	0.0	23049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3061.8	13.3
10°-20°	7939.3	34.4
20°-30°	7274.6	31.6
30°-40°	2938.9	12.8
40°-50°	862.1	3.7
50°-60°	482.0	2.1
60°-70°	292.8	1.3
70°-80°	148.8	0.6
80°-90°	48.7	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°	23049.0	100.0
0°-180°	23049.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637734

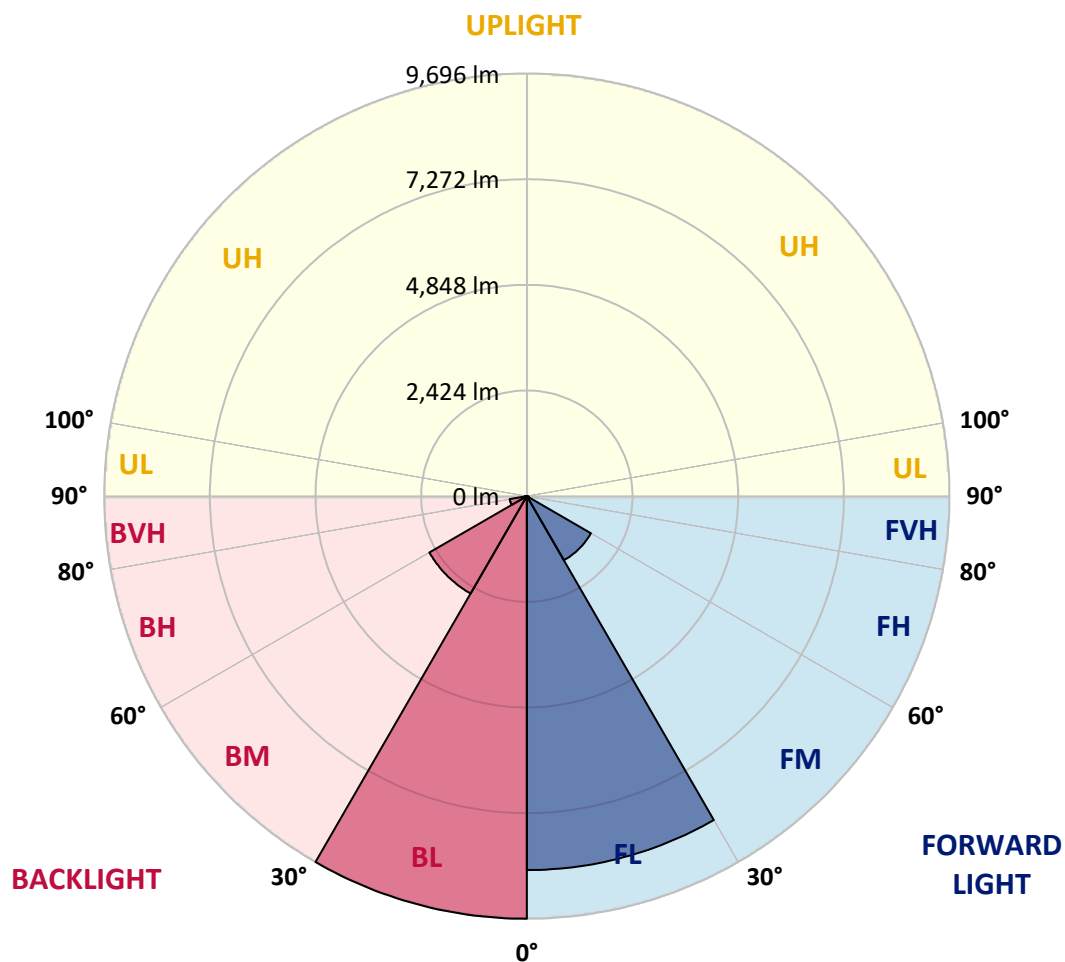
CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8579.4	37.2			
FM	(30°-60°)	1700.3	7.4			
FH	(60°-80°)	41.2	0.2			G0/660
FVH	(80°-90°)	4.2	0.0			G0/10
BL	(0°-30°)	9696.3	42.1	B5		
BM	(30°-60°)	2582.8	11.2	B3/5000		
BH	(60°-80°)	400.4	1.7	B1/500		G1/500
BVH	(80°-90°)	44.4	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: P637734

CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0
2.5°	31412.7	31519.0	31306.4	31447.2	31556.2	31816.7	31837.9	31928.3	31960.2	32196.7
5°	30817.3	30899.7	30727.0	30915.7	31069.8	31301.1	31479.1	31729.0	31867.2	32146.2
7.5°	30198.1	30216.7	30182.1	30381.5	30612.7	30931.6	31152.2	31479.1	31564.2	31962.9
10°	29448.6	29313.0	29379.5	29671.8	30017.3	30506.4	30657.9	30984.8	31136.3	31542.9
12.5°	28252.6	28321.7	28239.3	28611.4	28898.4	29453.9	29613.4	29942.9	30232.6	30591.4
15°	26567.5	26527.6	26695.1	26984.8	27295.7	27736.9	27994.7	28353.5	28574.1	28946.2
17.5°	22780.1	22915.7	23606.7	24332.3	24970.2	25485.8	25794.1	26091.8	26251.2	26655.2
20°	19673.1	19503.0	19596.1	20005.4	21820.6	22610.0	22934.3	23006.0	23072.5	23391.4
22.5°	16199.4	16143.6	16454.5	16914.3	17344.9	19165.5	19606.7	19439.2	19577.5	19877.8
25°	12029.3	12311.0	12587.4	13469.8	14027.9	14921.0	15758.2	15832.6	15883.1	16071.8
27.5°	9791.4	9693.0	9687.7	9934.9	10758.8	11503.0	12215.3	12380.1	12350.9	12531.6
30°	7697.0	7665.1	7553.5	7612.0	7529.6	8191.4	8526.3	9204.0	9166.8	9172.1
32.5°	5552.2	5432.6	5387.4	5475.1	5390.0	5328.9	5621.3	6386.7	6373.4	6426.6
35°	3359.5	3343.5	3380.7	3457.8	3287.7	3282.4	3343.5	4063.8	4151.5	4236.6
37.5°	1855.2	1839.2	1868.4	2152.8	2097.0	2046.5	2062.5	2442.5	2695.0	2758.8
40°	1222.6	1219.9	1241.2	1291.7	1387.4	1368.8	1376.7	1546.8	1786.1	1841.9
42.5°	818.6	821.3	834.6	893.0	906.3	1002.0	986.0	1025.9	1249.2	1297.0
45°	653.8	651.2	659.1	632.6	648.5	746.8	757.5	760.1	951.5	980.7
47.5°	515.6	515.6	523.6	489.0	481.1	542.2	598.0	606.0	760.1	800.0
50°	361.5	361.5	401.3	385.4	404.0	422.6	483.7	491.7	621.9	664.5
52.5°	265.8	271.1	276.4	279.1	340.2	337.5	390.7	427.9	470.4	544.9
55°	202.0	207.3	194.0	207.3	252.5	281.7	292.4	345.5	374.8	457.1
57.5°	132.9	146.2	135.5	159.5	170.1	217.9	233.9	284.4	303.0	374.8
60°	18.6	21.3	34.6	111.6	119.6	143.5	180.7	225.9	244.5	305.6
62.5°	2.7	2.7	8.0	18.6	79.7	95.7	135.5	156.8	180.7	228.6
65°	0.0	0.0	2.7	5.3	15.9	55.8	69.1	85.1	124.9	164.8
67.5°	0.0	0.0	2.7	5.3	8.0	18.6	29.2	55.8	71.8	114.3
70°	0.0	0.0	2.7	5.3	8.0	10.6	15.9	21.3	42.5	66.4
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	15.9	18.6	42.5
75°	0.0	0.0	2.7	5.3	8.0	13.3	15.9	15.9	15.9	18.6
77.5°	0.0	0.0	2.7	5.3	10.6	15.9	18.6	15.9	13.3	13.3
80°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	15.9	10.6	8.0
82.5°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	18.6	10.6	8.0
85°	0.0	0.0	2.7	8.0	10.6	13.3	21.3	18.6	10.6	5.3
87.5°	0.0	0.0	0.0	2.7	2.7	5.3	10.6	8.0	5.3	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637734

CATALOG NUMBER: IFLD-S-SA6B-827-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
32109.0	0°	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0	32109.0
32191.4	2.5°	32430.6	32550.2	32760.2	32818.7	32999.4	32792.1	32677.8	32688.4	32441.3
32111.7	5°	32430.6	32704.4	33071.2	33246.6	33379.5	33368.8	33339.6	33265.2	33084.5
31952.2	7.5°	32345.6	32792.1	33297.1	33531.0	33690.4	33677.1	33743.6	33624.0	33403.4
31667.8	10°	32071.8	32459.9	33081.8	33273.2	33531.0	33536.3	33453.9	33477.8	33084.5
30628.6	12.5°	31210.7	31513.7	32058.5	32276.5	32590.1	32640.6	32550.2	32515.7	32143.6
28925.0	15°	29544.3	29719.7	30267.2	30485.1	30796.1	30753.6	30843.9	30806.7	30479.8
26623.3	17.5°	27107.0	27162.8	27736.9	27920.3	28212.7	28327.0	28191.4	28364.2	28082.5
23447.2	20°	23612.0	23912.3	24558.2	24839.9	25010.0	25214.7	25036.6	25230.6	24901.1
19593.4	22.5°	20066.5	20244.6	20829.3	21235.9	21552.2	21592.1	21525.6	21661.2	21217.3
16196.7	25°	16194.1	16489.1	16951.5	17483.1	17794.1	17985.4	17812.7	17900.4	17828.6
12560.8	27.5°	12773.4	13036.6	13384.7	13780.8	14248.5	14498.4	14360.2	14509.0	14158.2
9366.1	30°	9374.1	9507.0	9900.4	10320.3	10833.2	11136.2	11149.5	11301.0	11093.7
6562.1	32.5°	6610.0	6726.9	6968.8	7247.9	7736.9	8074.4	8021.3	8042.5	7915.0
4276.4	35°	4297.7	4454.5	4627.3	4760.1	5055.2	5427.3	5398.0	5371.4	5283.7
2812.0	37.5°	2873.1	2934.2	3029.9	3149.5	3340.9	3574.8	3651.8	3556.2	3518.9
1897.7	40°	1942.9	2049.2	2113.0	2203.3	2293.7	2490.4	2543.5	2524.9	2487.7
1328.9	42.5°	1379.4	1461.8	1541.5	1629.2	1677.1	1799.3	1903.0	1873.8	1857.8
1010.0	45°	1047.2	1121.6	1214.6	1281.1	1328.9	1400.7	1499.0	1509.6	1485.7
810.6	47.5°	839.9	906.3	980.7	1063.1	1118.9	1164.1	1249.2	1281.1	1265.1
683.1	50°	712.3	762.8	834.6	916.9	978.1	1017.9	1092.4	1126.9	1116.3
571.4	52.5°	606.0	667.1	733.6	802.7	877.1	916.9	986.0	1036.5	1028.6
473.1	55°	502.3	582.1	651.2	720.3	805.3	845.2	906.3	972.8	959.5
401.3	57.5°	438.5	505.0	576.7	643.2	733.6	786.7	842.5	911.6	909.0
329.6	60°	366.8	433.2	513.0	568.8	664.5	738.9	789.4	861.1	866.4
249.8	62.5°	292.4	374.8	435.9	513.0	600.7	688.4	736.2	808.0	834.6
191.4	65°	217.9	308.3	377.4	454.5	536.9	635.2	677.7	749.5	776.1
138.2	67.5°	162.1	231.2	318.9	385.4	478.4	563.5	614.0	680.4	699.0
82.4	70°	122.3	178.1	265.8	324.3	419.9	489.0	539.5	590.0	614.0
55.8	72.5°	71.8	132.9	210.0	279.1	361.5	419.9	457.1	497.0	513.0
26.6	75°	50.5	101.0	164.8	231.2	292.4	340.2	374.8	409.3	425.3
13.3	77.5°	26.6	74.4	130.2	186.0	228.6	268.4	303.0	329.6	340.2
10.6	80°	15.9	53.2	106.3	146.2	175.4	210.0	244.5	263.1	260.5
8.0	82.5°	10.6	42.5	77.1	106.3	127.6	154.2	178.1	191.4	191.4
5.3	85°	8.0	29.2	53.2	82.4	85.1	106.3	111.6	124.9	127.6
5.3	87.5°	5.3	18.6	29.2	47.8	45.2	55.8	58.5	66.4	71.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
32109.0
32241.9
33142.9
33453.9
32970.2
32058.5
30583.5
28013.3
24874.5
21156.2
17783.4
14248.5
11130.9
7986.7
5206.7
3511.0
2493.0
1844.5
1483.1
1257.1
1113.6
1023.3
959.5
906.3
866.4
831.9
773.4
699.0
608.6
507.6
419.9
337.5
257.8
188.7
124.9
69.1
0.0

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