

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: P637760

Luminaire Tested: **IFLD-S-SA3D-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17396.4 lumens
Efficiency: N/A
Efficacy: 94.5 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): 184.1
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



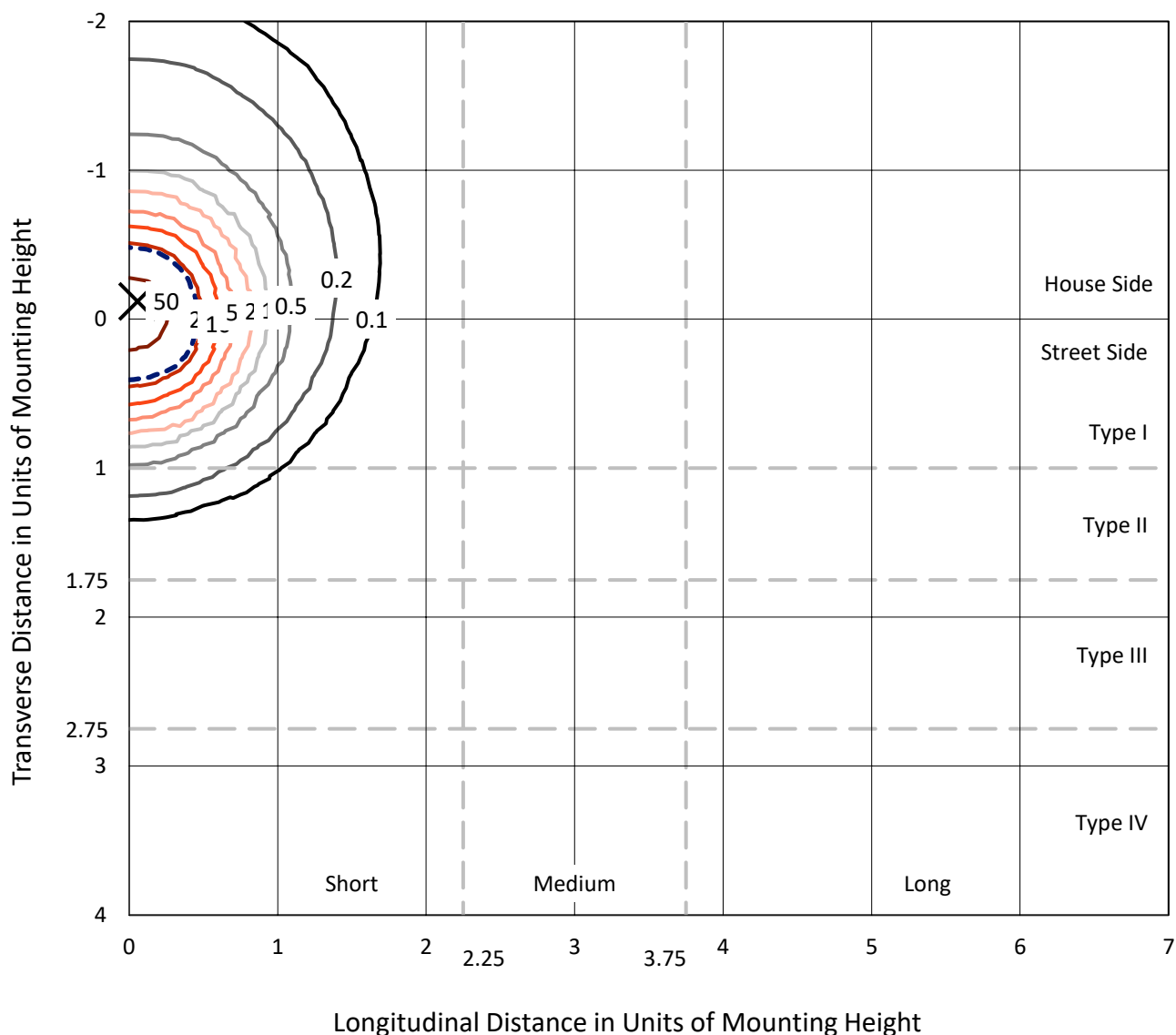
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

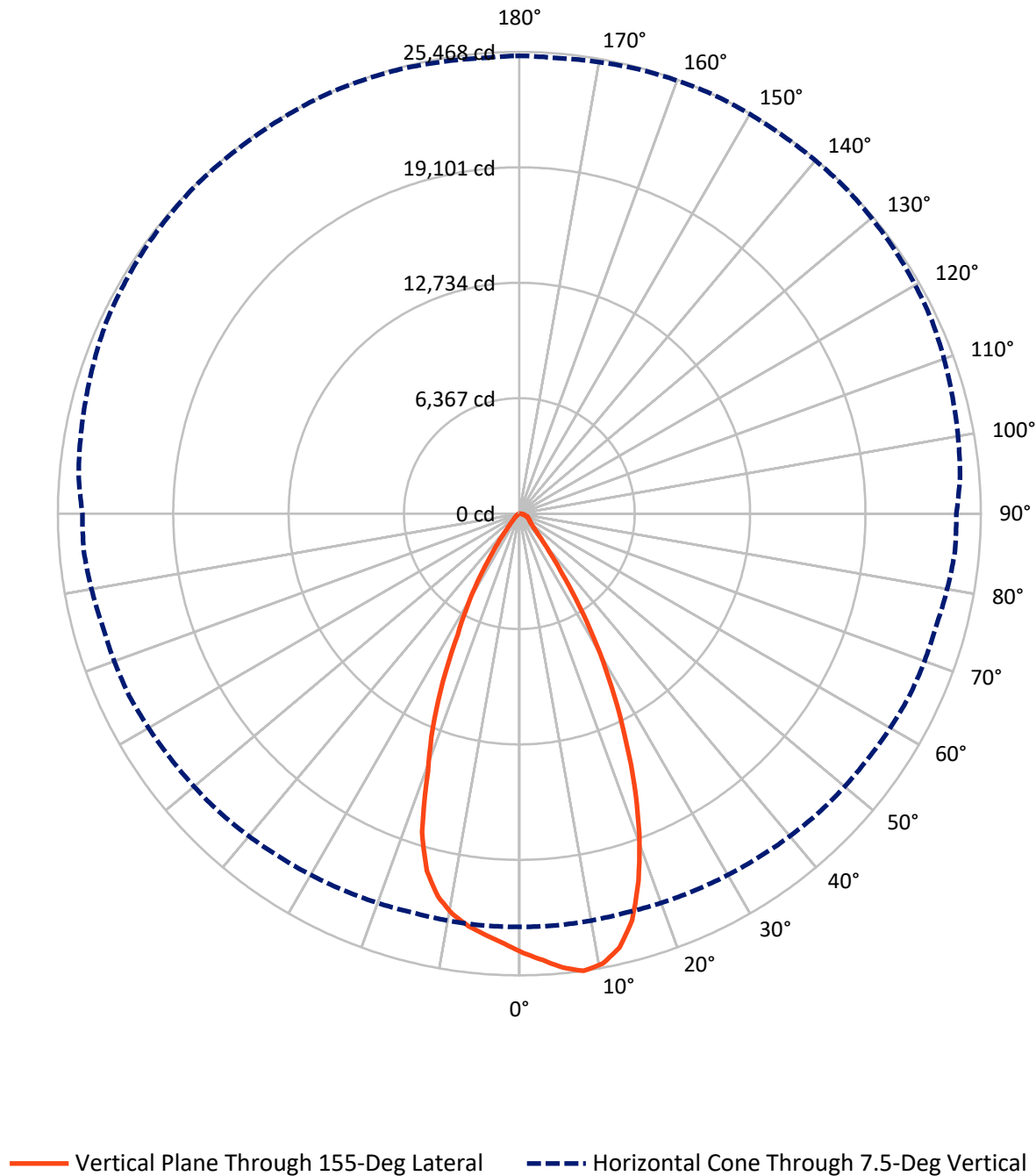


Based on 20 foot mounting height. Maximum calculated value = 61.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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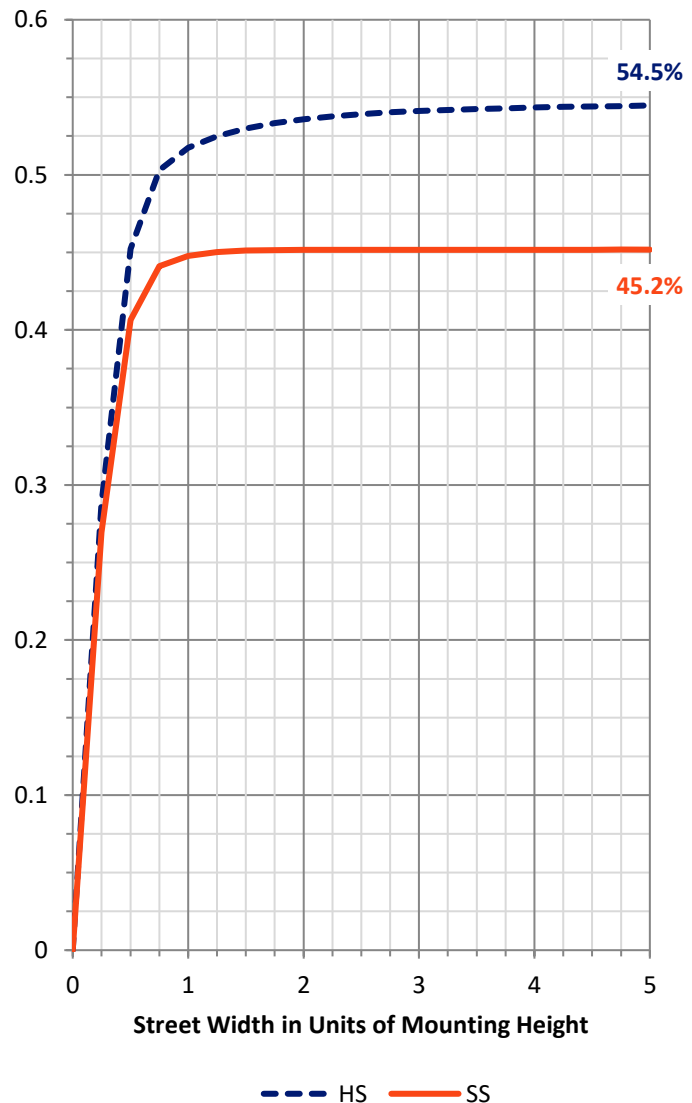
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9603.4	0.0	9603.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7792.9	0.0	7792.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	17396.4	0.0	17396.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2310.9	13.3
10°-20°	5992.2	34.4
20°-30°	5490.5	31.6
30°-40°	2218.2	12.8
40°-50°	650.7	3.7
50°-60°	363.8	2.1
60°-70°	221.0	1.3
70°-80°	112.3	0.6
80°-90°	36.7	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°	17396.4	100.0
0°-180°	17396.4	100.0

Coefficient of Utilization



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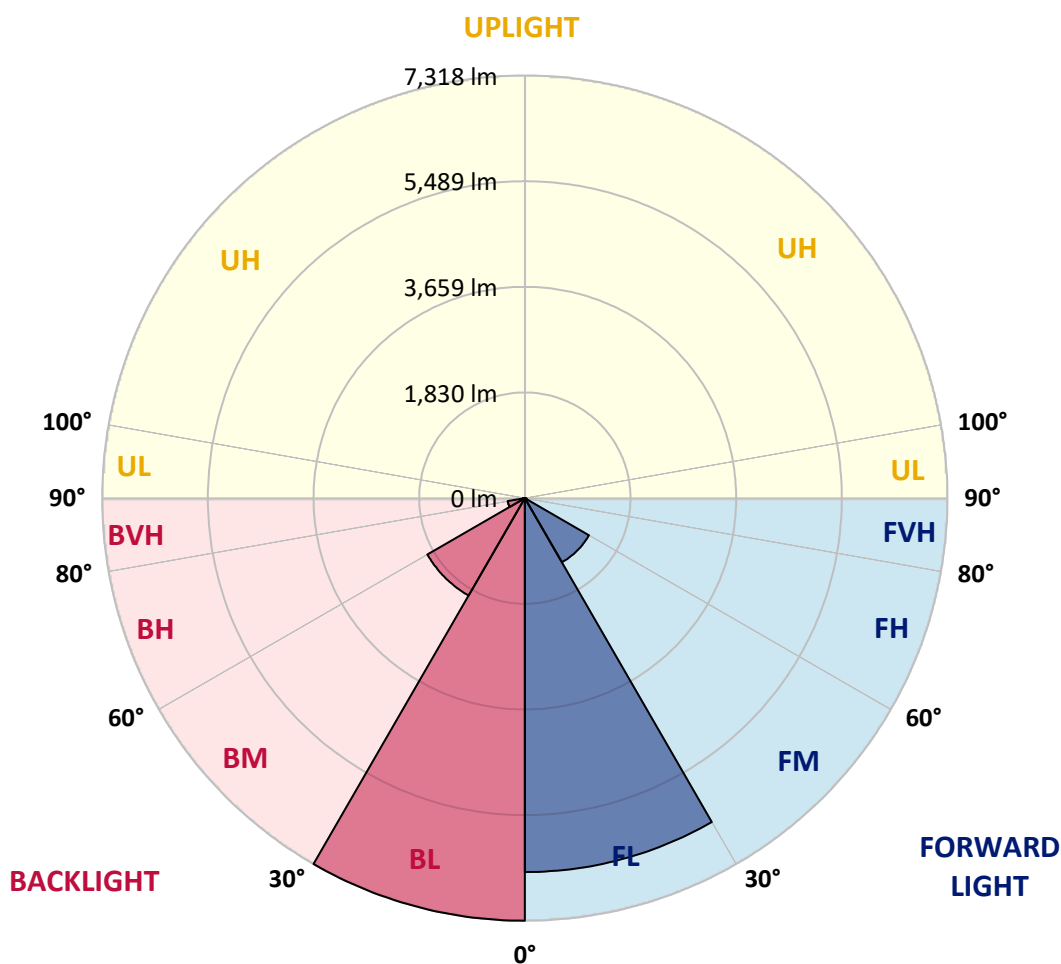
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6475.4	37.2			
FM	(30°-60°)	1283.3	7.4			
FH	(60°-80°)	31.1	0.2			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	7318.3	42.1	B5		
BM	(30°-60°)	1949.4	11.2	B2/2500		
BH	(60°-80°)	302.2	1.7	B1/500		G1/500
BVH	(80°-90°)	33.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5
2.5°	23708.9	23789.2	23628.7	23735.0	23817.2	24013.8	24029.9	24098.1	24122.2	24300.7
5°	23259.6	23321.8	23191.4	23333.8	23450.1	23624.7	23759.1	23947.6	24051.9	24262.6
7.5°	22792.2	22806.2	22780.1	22930.6	23105.1	23345.8	23512.3	23759.1	23823.3	24124.2
10°	22226.5	22124.2	22174.3	22395.0	22655.8	23024.9	23139.2	23386.0	23500.3	23807.2
12.5°	21323.8	21375.9	21313.8	21594.6	21811.2	22230.5	22350.9	22599.6	22818.3	23089.1
15°	20052.0	20021.9	20148.3	20366.9	20601.6	20934.6	21129.2	21400.0	21566.5	21847.4
17.5°	17193.4	17295.7	17817.3	18364.9	18846.4	19235.5	19468.2	19692.9	19813.3	20118.2
20°	14848.4	14720.0	14790.2	15099.2	16469.3	17065.0	17309.8	17363.9	17414.1	17654.8
22.5°	12226.6	12184.4	12419.1	12766.2	13091.2	14465.3	14798.3	14671.9	14776.2	15002.9
25°	9079.2	9291.8	9500.4	10166.4	10587.7	11261.7	11893.6	11949.7	11987.9	12130.3
27.5°	7390.1	7315.9	7311.9	7498.4	8120.3	8682.0	9219.6	9344.0	9321.9	9458.3
30°	5809.4	5785.3	5701.1	5745.2	5683.0	6182.5	6435.2	6946.8	6918.7	6922.7
32.5°	4190.5	4100.3	4066.2	4132.4	4068.2	4022.0	4242.7	4820.4	4810.4	4850.5
35°	2535.6	2523.5	2551.6	2609.8	2481.4	2477.4	2523.5	3067.2	3133.4	3197.6
37.5°	1400.2	1388.2	1410.2	1624.9	1582.7	1544.6	1556.7	1843.5	2034.1	2082.2
40°	922.8	920.8	936.8	974.9	1047.1	1033.1	1039.1	1167.5	1348.0	1390.2
42.5°	617.8	619.9	629.9	674.0	684.0	756.3	744.2	774.3	942.8	978.9
45°	493.5	491.5	497.5	477.4	489.5	563.7	571.7	573.7	718.1	740.2
47.5°	389.2	389.2	395.2	369.1	363.1	409.2	451.4	457.4	573.7	603.8
50°	272.8	272.8	302.9	290.9	304.9	319.0	365.1	371.1	469.4	501.5
52.5°	200.6	204.6	208.6	210.6	256.8	254.8	294.9	323.0	355.1	411.2
55°	152.5	156.5	146.4	156.5	190.6	212.6	220.7	260.8	282.8	345.0
57.5°	100.3	110.3	102.3	120.4	128.4	164.5	176.5	214.6	228.7	282.8
60°	14.0	16.0	26.1	84.3	90.3	108.3	136.4	170.5	184.6	230.7
62.5°	2.0	2.0	6.0	14.0	60.2	72.2	102.3	118.4	136.4	172.5
65°	0.0	0.0	2.0	4.0	12.0	42.1	52.2	64.2	94.3	124.4
67.5°	0.0	0.0	2.0	4.0	6.0	14.0	22.1	42.1	54.2	86.3
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	32.1	50.2
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	32.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	10.0	10.0
80°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	12.0	8.0	6.0
82.5°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	14.0	8.0	6.0
85°	0.0	0.0	2.0	6.0	8.0	10.0	16.0	14.0	8.0	4.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	8.0	6.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
24234.5	0°	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5	24234.5
24296.7	2.5°	24477.2	24567.5	24726.0	24770.1	24906.5	24750.0	24663.8	24671.8	24485.2
24236.5	5°	24477.2	24683.8	24960.7	25093.1	25193.4	25185.3	25163.3	25107.1	24970.7
24116.1	7.5°	24413.0	24750.0	25131.2	25307.7	25428.1	25418.0	25468.2	25377.9	25211.4
23901.5	10°	24206.4	24499.3	24968.7	25113.1	25307.7	25311.7	25249.5	25267.6	24970.7
23117.1	12.5°	23556.5	23785.1	24196.4	24360.9	24597.6	24635.7	24567.5	24541.4	24260.6
21831.3	15°	22298.7	22431.1	22844.3	23008.8	23243.5	23211.4	23279.6	23251.6	23004.8
20094.1	17.5°	20459.2	20501.3	20934.6	21073.0	21293.7	21380.0	21277.6	21408.0	21195.4
17696.9	20°	17821.3	18048.0	18535.4	18748.1	18876.5	19030.9	18896.5	19043.0	18794.2
14788.2	22.5°	15145.3	15279.7	15721.0	16027.9	16266.7	16296.7	16246.6	16348.9	16013.9
12224.6	25°	12222.6	12445.2	12794.3	13195.5	13430.2	13574.6	13444.2	13510.4	13456.3
9480.4	27.5°	9640.8	9839.4	10102.2	10401.1	10754.2	10942.7	10838.4	10950.8	10686.0
7069.1	30°	7075.2	7175.5	7472.4	7789.3	8176.5	8405.1	8415.2	8529.5	8373.0
4952.8	32.5°	4988.9	5077.2	5259.7	5470.4	5839.5	6094.2	6054.1	6070.2	5973.9
3227.7	35°	3243.7	3362.1	3492.4	3592.7	3815.4	4096.3	4074.2	4054.1	3987.9
2122.3	37.5°	2168.5	2214.6	2286.8	2377.1	2521.5	2698.1	2756.2	2684.0	2655.9
1432.3	40°	1466.4	1546.6	1594.8	1663.0	1731.2	1879.6	1919.7	1905.7	1877.6
1003.0	42.5°	1041.1	1103.3	1163.5	1229.7	1265.8	1358.1	1436.3	1414.2	1402.2
762.3	45°	790.4	846.5	916.7	966.9	1003.0	1057.2	1131.4	1139.4	1121.4
611.8	47.5°	633.9	684.0	740.2	802.4	844.5	878.6	942.8	966.9	954.9
515.5	50°	537.6	575.7	629.9	692.1	738.2	768.3	824.5	850.5	842.5
431.3	52.5°	457.4	503.5	553.7	605.8	662.0	692.1	744.2	782.3	776.3
357.1	55°	379.1	439.3	491.5	543.6	607.8	637.9	684.0	734.2	724.2
302.9	57.5°	331.0	381.1	435.3	485.5	553.7	593.8	635.9	688.1	686.1
248.7	60°	276.8	327.0	387.2	429.3	501.5	557.7	595.8	649.9	654.0
188.6	62.5°	220.7	282.8	329.0	387.2	453.4	519.6	555.7	609.8	629.9
144.4	65°	164.5	232.7	284.9	343.0	405.2	479.4	511.5	565.7	585.8
104.3	67.5°	122.4	174.5	240.7	290.9	361.1	425.3	463.4	513.5	527.6
62.2	70°	92.3	134.4	200.6	244.7	316.9	369.1	407.2	445.3	463.4
42.1	72.5°	54.2	100.3	158.5	210.6	272.8	316.9	345.0	375.1	387.2
20.1	75°	38.1	76.2	124.4	174.5	220.7	256.8	282.8	308.9	321.0
10.0	77.5°	20.1	56.2	98.3	140.4	172.5	202.6	228.7	248.7	256.8
8.0	80°	12.0	40.1	80.2	110.3	132.4	158.5	184.6	198.6	196.6
6.0	82.5°	8.0	32.1	58.2	80.2	96.3	116.3	134.4	144.4	144.4
4.0	85°	6.0	22.1	40.1	62.2	64.2	80.2	84.3	94.3	96.3
4.0	87.5°	4.0	14.0	22.1	36.1	34.1	42.1	44.1	50.2	54.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24234.5
24334.8
25014.8
25249.5
24884.4
24196.4
23083.0
21143.2
18774.2
15967.8
13422.1
10754.2
8401.1
6028.0
3929.8
2649.9
1881.6
1392.2
1119.3
948.8
840.5
772.3
724.2
684.0
654.0
627.9
583.7
527.6
459.4
383.1
316.9
254.8
194.6
142.4
94.3
52.2
0.0

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