

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: P637733

Luminaire Tested: **IFLD-S-SA6A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-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: 18636.8 lumens
Efficiency: N/A
Efficacy: 98.3 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): 189.6
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



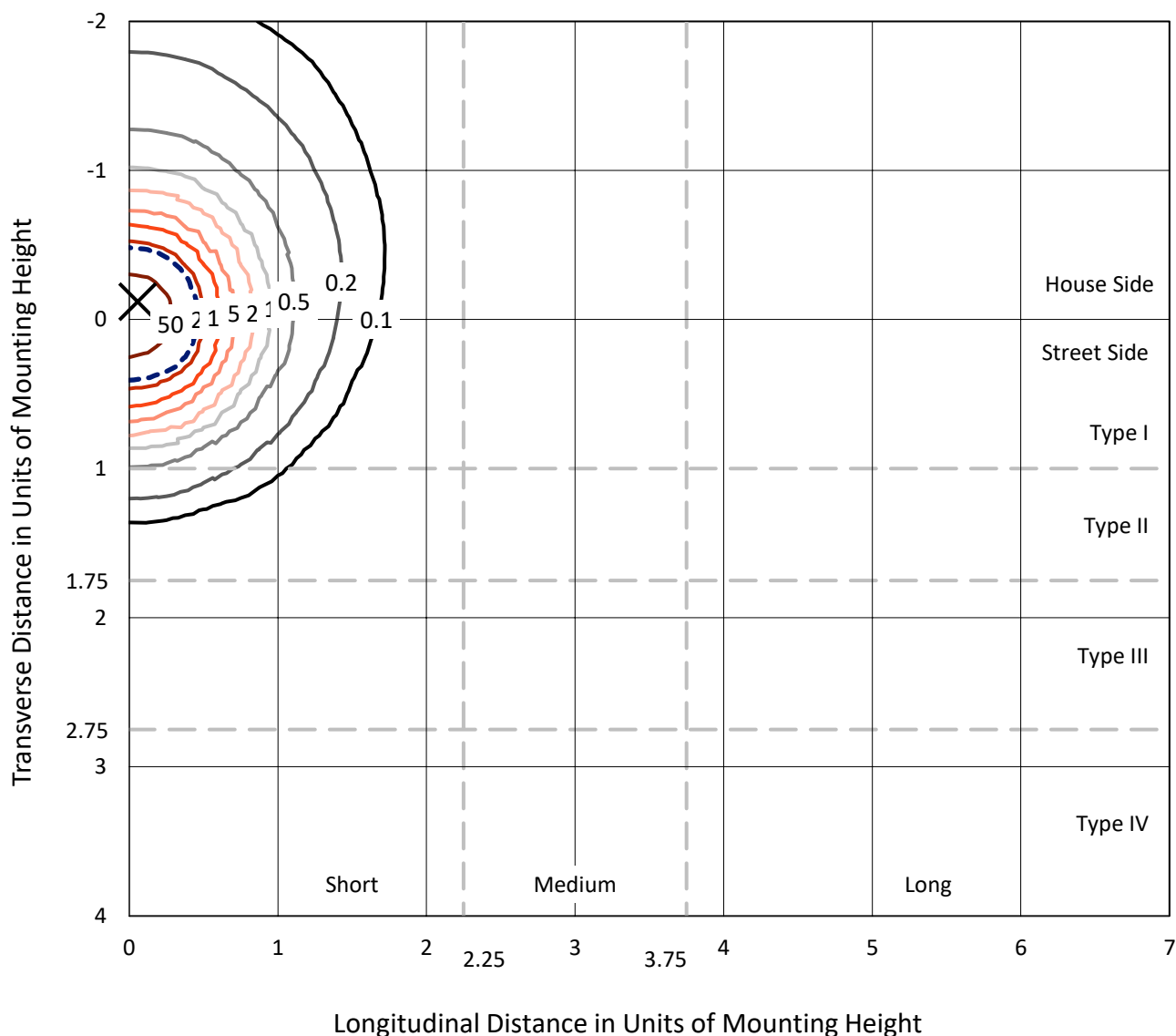
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



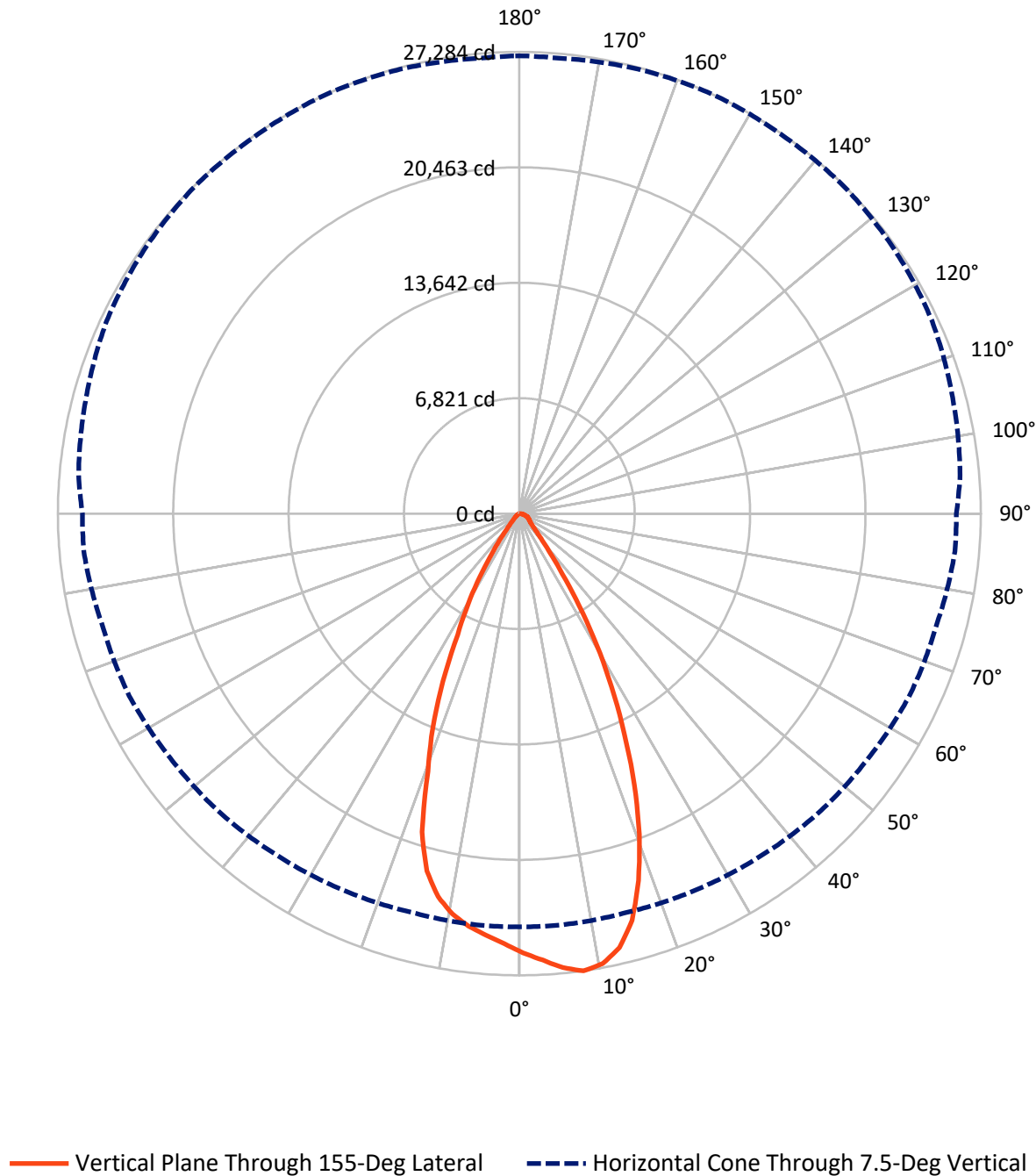
Based on 20 foot mounting height. Maximum calculated value = 66 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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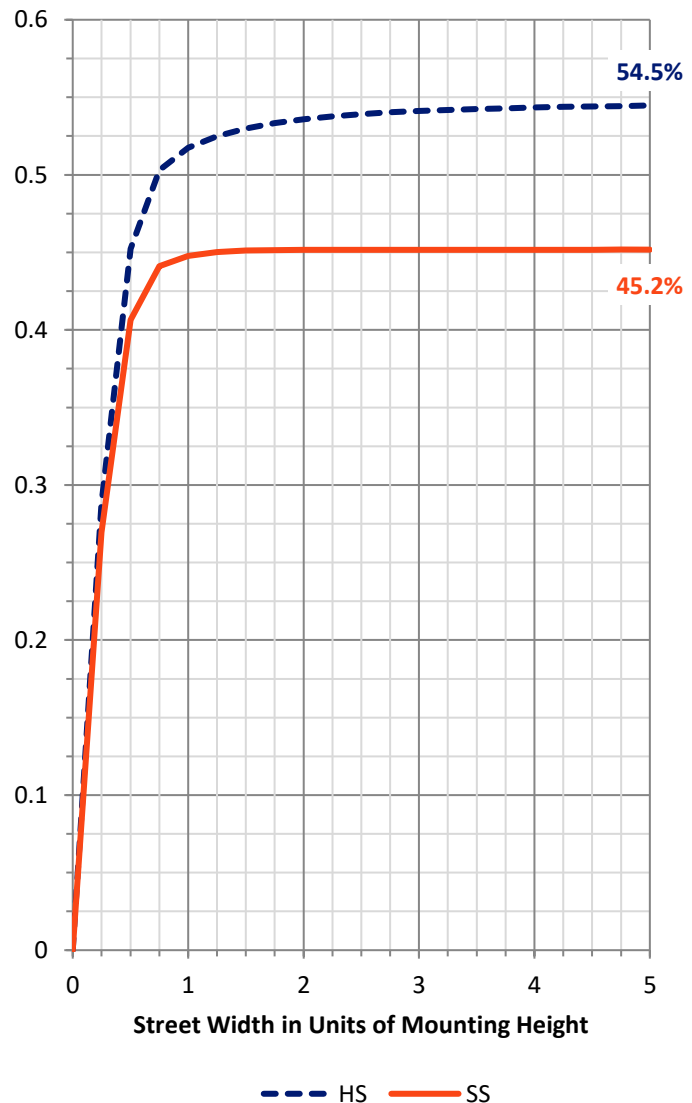
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10288.2	0.0	10288.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8348.6	0.0	8348.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	18636.8	0.0	18636.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2475.7	13.3
10°-20°	6419.5	34.4
20°-30°	5882.0	31.6
30°-40°	2376.3	12.8
40°-50°	697.1	3.7
50°-60°	389.8	2.1
60°-70°	236.7	1.3
70°-80°	120.3	0.6
80°-90°	39.3	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°	18636.8	100.0
0°-180°	18636.8	100.0

Coefficient of Utilization



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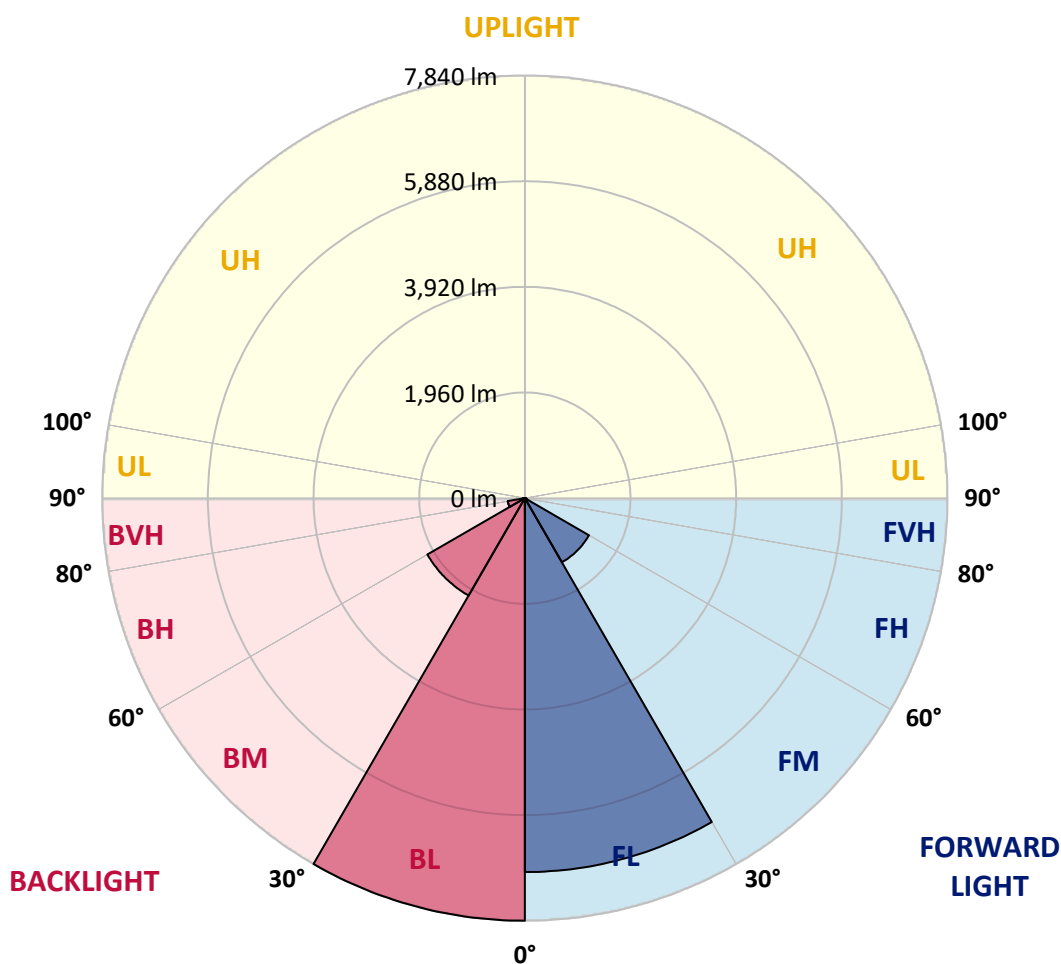
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6937.1	37.2			
FM	(30°-60°)	1374.8	7.4			
FH	(60°-80°)	33.3	0.2			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	7840.1	42.1	B5		
BM	(30°-60°)	2088.4	11.2	B2/2500		
BH	(60°-80°)	323.7	1.7	B1/500		G1/500
BVH	(80°-90°)	35.9	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°	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5
2.5°	25399.5	25485.5	25313.5	25427.4	25515.5	25726.1	25743.3	25816.4	25842.2	26033.5
5°	24918.1	24984.7	24845.0	24997.6	25122.3	25309.2	25453.2	25655.2	25767.0	25992.6
7.5°	24417.4	24432.4	24404.5	24565.7	24752.6	25010.5	25188.9	25453.2	25522.0	25844.3
10°	23811.4	23701.7	23755.5	23991.9	24271.2	24666.7	24789.2	25053.5	25176.0	25504.8
12.5°	22844.3	22900.2	22833.5	23134.4	23366.5	23815.6	23944.6	24211.1	24445.3	24735.4
15°	21481.8	21449.6	21584.9	21819.2	22070.6	22427.4	22635.8	22925.9	23104.3	23405.2
17.5°	18419.4	18529.0	19087.8	19674.5	20190.2	20607.1	20856.4	21097.1	21226.1	21552.7
20°	15907.2	15769.6	15844.9	16175.8	17643.6	18281.9	18544.1	18602.1	18655.8	18913.7
22.5°	13098.4	13053.3	13304.7	13676.5	14024.6	15496.7	15853.5	15718.1	15829.8	16072.7
25°	9726.5	9954.3	10177.8	10891.3	11342.6	12064.7	12741.7	12801.8	12842.7	12995.2
27.5°	7917.1	7837.5	7833.2	8033.1	8699.3	9301.0	9877.0	10010.2	9986.6	10132.7
30°	6223.6	6197.8	6107.6	6154.8	6088.2	6623.3	6894.1	7442.1	7412.0	7416.3
32.5°	4489.3	4392.6	4356.1	4427.0	4358.3	4308.8	4545.2	5164.1	5153.4	5196.4
35°	2716.4	2703.5	2733.6	2795.9	2658.4	2654.1	2703.5	3285.9	3356.8	3425.6
37.5°	1500.0	1487.1	1510.8	1740.7	1695.6	1654.8	1667.7	1975.0	2179.1	2230.7
40°	988.6	986.4	1003.6	1044.4	1121.8	1106.8	1113.2	1250.7	1444.2	1489.3
42.5°	661.9	664.1	674.8	722.1	732.8	810.2	797.3	829.5	1010.0	1048.7
45°	528.7	526.5	533.0	511.5	524.4	603.9	612.5	614.6	769.4	793.0
47.5°	416.9	416.9	423.4	395.4	389.0	438.4	483.5	490.0	614.6	646.9
50°	292.3	292.3	324.5	311.6	326.7	341.7	391.1	397.6	502.9	537.3
52.5°	214.9	219.2	223.5	225.6	275.1	272.9	315.9	346.0	380.4	440.6
55°	163.3	167.6	156.9	167.6	204.2	227.8	236.4	279.4	303.0	369.6
57.5°	107.5	118.2	109.6	128.9	137.5	176.2	189.1	229.9	245.0	303.0
60°	15.0	17.2	27.9	90.3	96.7	116.0	146.1	182.7	197.7	247.1
62.5°	2.1	2.1	6.4	15.0	64.5	77.4	109.6	126.8	146.1	184.8
65°	0.0	0.0	2.1	4.3	12.9	45.1	55.9	68.8	101.0	133.2
67.5°	0.0	0.0	2.1	4.3	6.4	15.0	23.6	45.1	58.0	92.4
70°	0.0	0.0	2.1	4.3	6.4	8.6	12.9	17.2	34.4	53.7
72.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	12.9	15.0	34.4
75°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	12.9	12.9	15.0
77.5°	0.0	0.0	2.1	4.3	8.6	12.9	15.0	12.9	10.7	10.7
80°	0.0	0.0	2.1	6.4	10.7	15.0	17.2	12.9	8.6	6.4
82.5°	0.0	0.0	2.1	6.4	10.7	15.0	17.2	15.0	8.6	6.4
85°	0.0	0.0	2.1	6.4	8.6	10.7	17.2	15.0	8.6	4.3
87.5°	0.0	0.0	0.0	2.1	2.1	4.3	8.6	6.4	4.3	2.1
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°
25962.5	0°	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5	25962.5
26029.2	2.5°	26222.6	26319.3	26489.1	26536.3	26682.5	26514.8	26422.4	26431.0	26231.2
25964.7	5°	26222.6	26443.9	26740.5	26882.3	26989.8	26981.2	26957.5	26897.4	26751.2
25835.7	7.5°	26153.8	26514.8	26923.2	27112.3	27241.2	27230.5	27284.2	27187.5	27009.1
25605.8	10°	25932.5	26246.2	26749.1	26903.8	27112.3	27116.6	27050.0	27069.3	26751.2
24765.5	12.5°	25236.2	25481.2	25921.7	26097.9	26351.5	26392.3	26319.3	26291.3	25990.5
23388.0	15°	23888.7	24030.6	24473.3	24649.5	24900.9	24866.5	24939.6	24909.5	24645.2
21526.9	17.5°	21918.0	21963.2	22427.4	22575.7	22812.0	22904.5	22794.9	22934.5	22706.7
18958.8	20°	19092.1	19334.9	19857.1	20084.9	20222.5	20387.9	20243.9	20400.8	20134.3
15842.7	22.5°	16225.2	16369.2	16842.0	17170.8	17426.6	17458.8	17405.1	17514.7	17155.8
13096.2	25°	13094.1	13332.6	13706.6	14136.4	14387.8	14542.5	14402.9	14473.8	14415.8
10156.4	27.5°	10328.3	10541.0	10822.6	11142.8	11521.0	11723.0	11611.3	11731.6	11447.9
7573.2	30°	7579.7	7687.1	8005.2	8344.7	8759.5	9004.5	9015.2	9137.7	8970.1
5306.0	32.5°	5344.7	5439.2	5634.8	5860.4	6255.9	6528.8	6485.8	6503.0	6399.8
3457.8	35°	3475.0	3601.8	3741.5	3848.9	4087.5	4388.3	4364.7	4343.2	4272.3
2273.7	37.5°	2323.1	2372.5	2449.9	2546.6	2701.3	2890.5	2952.8	2875.4	2845.3
1534.4	40°	1570.9	1656.9	1708.5	1781.6	1854.6	2013.6	2056.6	2041.6	2011.5
1074.5	42.5°	1115.4	1182.0	1246.4	1317.4	1356.0	1454.9	1538.7	1515.1	1502.2
816.6	45°	846.7	906.9	982.1	1035.8	1074.5	1132.5	1212.1	1220.7	1201.3
655.5	47.5°	679.1	732.8	793.0	859.6	904.7	941.3	1010.0	1035.8	1022.9
552.3	50°	575.9	616.8	674.8	741.4	790.8	823.1	883.3	911.2	902.6
462.0	52.5°	490.0	539.4	593.1	649.0	709.2	741.4	797.3	838.1	831.7
382.5	55°	406.2	470.6	526.5	582.4	651.2	683.4	732.8	786.5	775.8
324.5	57.5°	354.6	408.3	466.3	520.1	593.1	636.1	681.2	737.1	735.0
266.5	60°	296.6	350.3	414.8	459.9	537.3	597.4	638.3	696.3	700.6
202.0	62.5°	236.4	303.0	352.4	414.8	485.7	556.6	595.3	653.3	674.8
154.7	65°	176.2	249.3	305.2	367.5	434.1	513.6	548.0	606.0	627.5
111.8	67.5°	131.1	187.0	257.9	311.6	386.8	455.6	496.4	550.2	565.2
66.6	70°	98.9	144.0	214.9	262.2	339.5	395.4	436.3	477.1	496.4
45.1	72.5°	58.0	107.5	169.8	225.6	292.3	339.5	369.6	401.9	414.8
21.5	75°	40.8	81.7	133.2	187.0	236.4	275.1	303.0	331.0	343.8
10.7	77.5°	21.5	60.2	105.3	150.4	184.8	217.1	245.0	266.5	275.1
8.6	80°	12.9	43.0	86.0	118.2	141.8	169.8	197.7	212.8	210.6
6.4	82.5°	8.6	34.4	62.3	86.0	103.2	124.6	144.0	154.7	154.7
4.3	85°	6.4	23.6	43.0	66.6	68.8	86.0	90.3	101.0	103.2
4.3	87.5°	4.3	15.0	23.6	38.7	36.5	45.1	47.3	53.7	58.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25962.5
26070.0
26798.5
27050.0
26658.8
25921.7
24729.0
22650.9
20112.9
17106.3
14379.2
11521.0
9000.2
6457.9
4210.0
2838.9
2015.8
1491.4
1199.2
1016.5
900.4
827.4
775.8
732.8
700.6
672.6
625.4
565.2
492.1
410.5
339.5
272.9
208.5
152.6
101.0
55.9
0.0

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