

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: P637566

Luminaire Tested: **IFLD-M-SA4C-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22335.1 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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



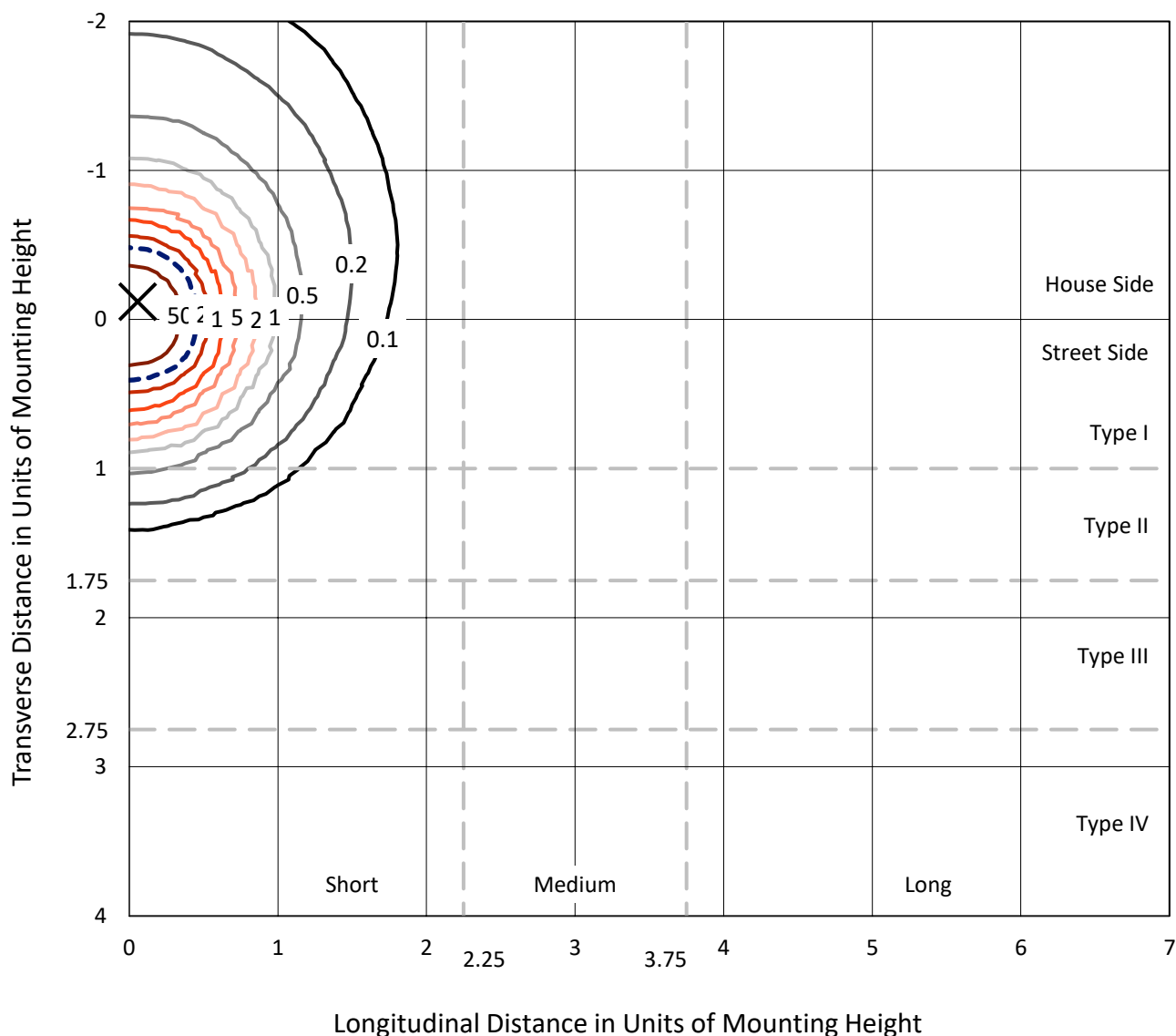
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

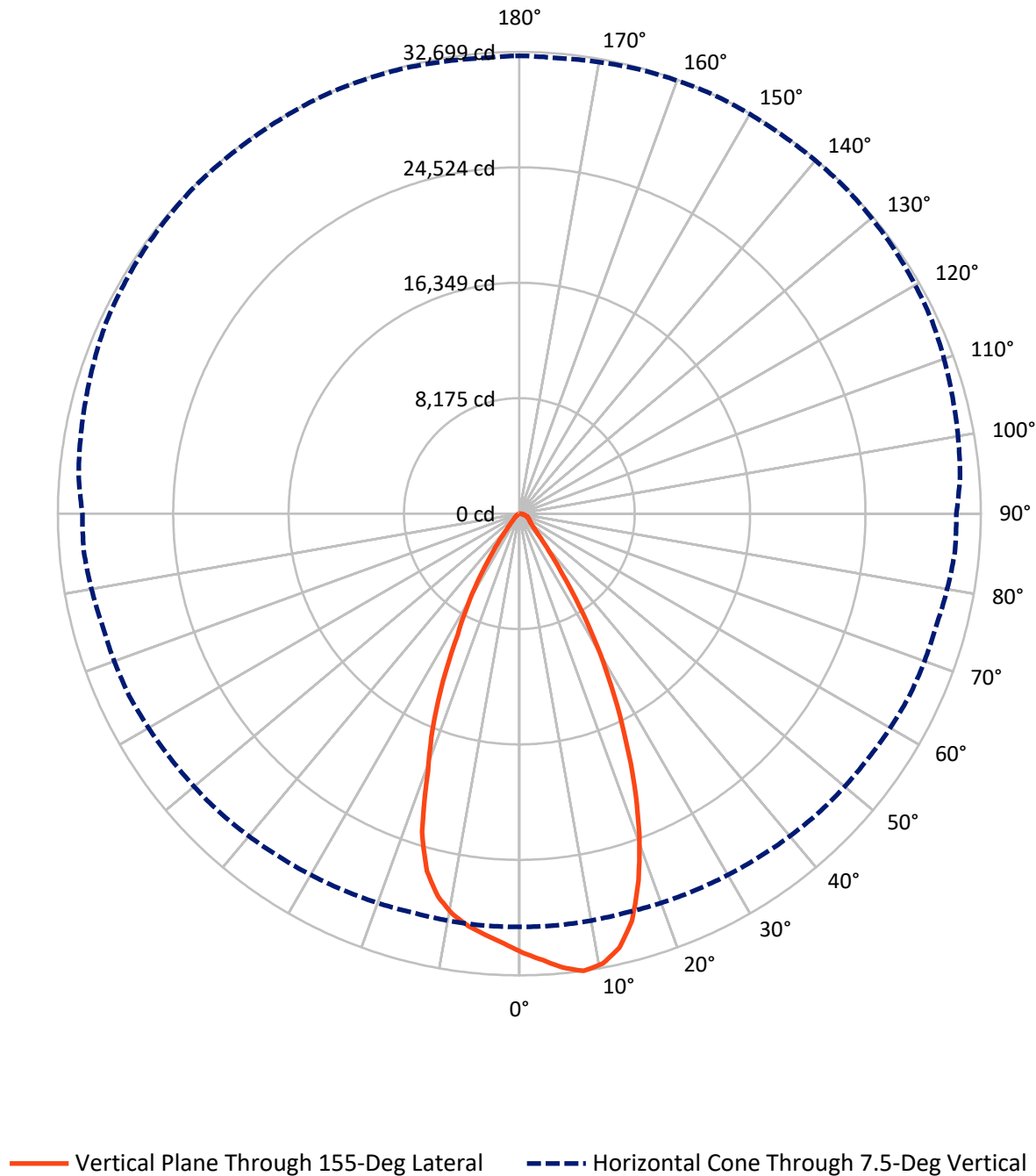


Based on 20 foot mounting height. Maximum calculated value = 79.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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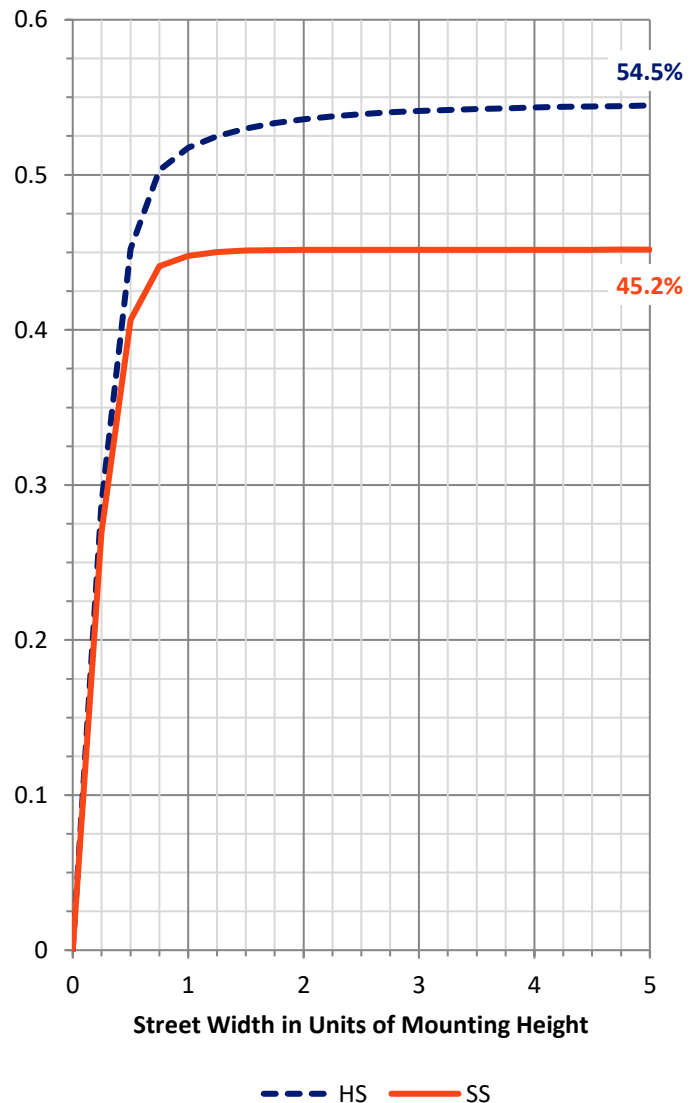
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12329.8	0.0	12329.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10005.3	0.0	10005.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	22335.1	0.0	22335.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2967.0	13.3
10°-20°	7693.4	34.4
20°-30°	7049.3	31.6
30°-40°	2847.9	12.8
40°-50°	835.4	3.7
50°-60°	467.1	2.1
60°-70°	283.7	1.3
70°-80°	144.2	0.6
80°-90°	47.1	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°	22335.1	100.0
0°-180°	22335.1	100.0

Coefficient of Utilization



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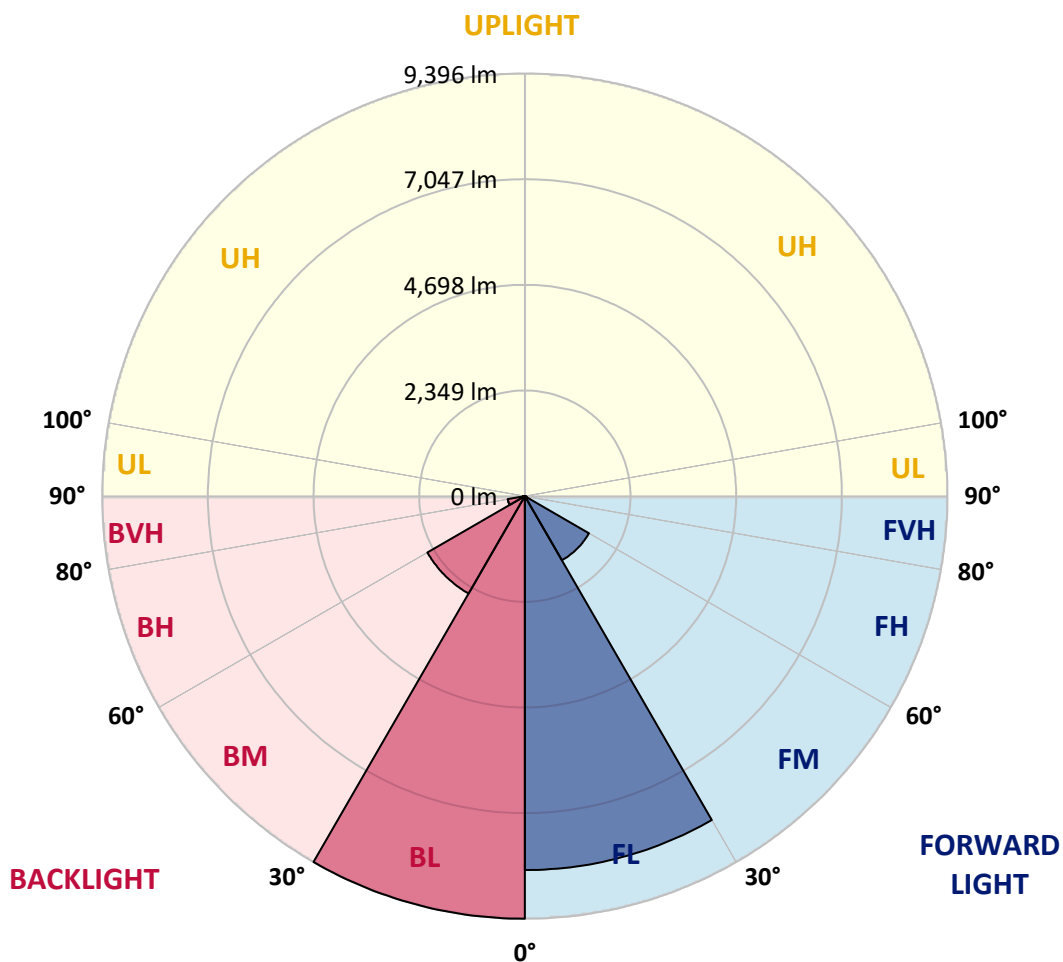
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8313.7	37.2			
FM	(30°-60°)	1647.6	7.4			
FH	(60°-80°)	39.9	0.2			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	9395.9	42.1	B5		
BM	(30°-60°)	2502.8	11.2	B3/5000		
BH	(60°-80°)	388.0	1.7	B1/500		G1/500
BVH	(80°-90°)	43.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5
2.5°	30439.8	30542.8	30336.7	30473.2	30578.8	30831.2	30851.8	30939.4	30970.3	31199.5
5°	29862.9	29942.7	29775.3	29958.1	30107.5	30331.6	30504.2	30746.2	30880.2	31150.6
7.5°	29262.8	29280.8	29247.3	29440.5	29664.5	29973.6	30187.4	30504.2	30586.6	30972.9
10°	28536.5	28405.1	28469.5	28752.8	29087.6	29561.5	29708.3	30025.1	30171.9	30566.0
12.5°	27377.5	27444.5	27364.6	27725.2	28003.3	28541.6	28696.2	29015.5	29296.2	29643.9
15°	25744.6	25706.0	25868.3	26149.0	26450.3	26877.9	27127.7	27475.4	27689.1	28049.7
17.5°	22074.6	22205.9	22875.5	23578.6	24196.8	24696.4	24995.2	25283.6	25438.2	25829.6
20°	19063.8	18899.0	18989.1	19385.7	21144.8	21909.7	22223.9	22293.5	22357.9	22666.9
22.5°	15697.6	15643.6	15944.9	16390.4	16807.7	18571.9	18999.4	18837.2	18971.1	19262.1
25°	11656.7	11929.7	12197.5	13052.6	13593.5	14458.8	15270.1	15342.2	15391.2	15574.0
27.5°	9488.1	9392.8	9387.7	9627.2	10425.6	11146.7	11837.0	11996.7	11968.3	12143.5
30°	7458.6	7427.7	7319.6	7376.2	7296.4	7937.7	8262.2	8918.9	8882.9	8888.0
32.5°	5380.2	5264.3	5220.5	5305.5	5223.1	5163.9	5447.2	6188.9	6176.0	6227.5
35°	3255.4	3240.0	3276.0	3350.7	3185.9	3180.7	3240.0	3937.9	4022.9	4105.3
37.5°	1797.7	1782.2	1810.6	2086.2	2032.1	1983.1	1998.6	2366.9	2611.6	2673.4
40°	1184.7	1182.2	1202.8	1251.7	1344.4	1326.4	1334.1	1498.9	1730.7	1784.8
42.5°	793.3	795.8	808.7	865.4	878.2	971.0	955.5	994.1	1210.5	1256.8
45°	633.6	631.0	638.7	613.0	628.4	723.7	734.0	736.6	922.0	950.4
47.5°	499.6	499.6	507.4	473.9	466.2	525.4	579.5	587.2	736.6	775.2
50°	350.3	350.3	388.9	373.4	391.5	409.5	468.7	476.5	602.7	643.9
52.5°	257.5	262.7	267.9	270.4	329.7	327.1	378.6	414.7	455.9	528.0
55°	195.7	200.9	188.0	200.9	244.7	273.0	283.3	334.8	363.1	443.0
57.5°	128.8	141.7	131.4	154.5	164.8	211.2	226.6	275.6	293.6	363.1
60°	18.0	20.6	33.5	108.2	115.9	139.1	175.1	218.9	236.9	296.2
62.5°	2.6	2.6	7.7	18.0	77.3	92.7	131.4	152.0	175.1	221.5
65°	0.0	0.0	2.6	5.2	15.5	54.1	67.0	82.4	121.0	159.7
67.5°	0.0	0.0	2.6	5.2	7.7	18.0	28.3	54.1	69.5	110.7
70°	0.0	0.0	2.6	5.2	7.7	10.3	15.5	20.6	41.2	64.4
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	15.5	18.0	41.2
75°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	15.5	15.5	18.0
77.5°	0.0	0.0	2.6	5.2	10.3	15.5	18.0	15.5	12.9	12.9
80°	0.0	0.0	2.6	7.7	12.9	18.0	20.6	15.5	10.3	7.7
82.5°	0.0	0.0	2.6	7.7	12.9	18.0	20.6	18.0	10.3	7.7
85°	0.0	0.0	2.6	7.7	10.3	12.9	20.6	18.0	10.3	5.2
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	10.3	7.7	5.2	2.6
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°
31114.5	0°	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5	31114.5
31194.4	2.5°	31426.2	31542.1	31745.5	31802.2	31977.3	31776.4	31665.7	31676.0	31436.5
31117.1	5°	31426.2	31691.5	32046.9	32216.9	32345.6	32335.3	32307.0	32234.9	32059.8
30962.6	7.5°	31343.8	31776.4	32265.8	32492.4	32647.0	32634.1	32698.5	32582.6	32368.8
30687.0	10°	31078.5	31454.5	32057.2	32242.6	32492.4	32497.6	32417.7	32440.9	32059.8
29680.0	12.5°	30244.0	30537.6	31065.6	31276.8	31580.7	31629.6	31542.1	31508.6	31148.0
28029.1	15°	28629.2	28799.2	29329.7	29540.9	29842.2	29801.0	29888.6	29852.6	29535.8
25798.7	17.5°	26267.5	26321.5	26877.9	27055.6	27338.9	27449.6	27318.3	27485.7	27212.7
22721.0	20°	22880.7	23171.7	23797.6	24070.6	24235.4	24433.7	24261.2	24449.2	24129.8
18986.5	22.5°	19445.0	19617.5	20184.1	20578.2	20884.7	20923.3	20858.9	20990.3	20560.2
15695.1	25°	15692.5	15978.4	16426.5	16941.6	17242.9	17428.4	17261.0	17346.0	17276.4
12171.8	27.5°	12377.8	12632.8	12970.2	13353.9	13807.2	14049.3	13915.4	14059.6	13719.7
9076.0	30°	9083.8	9212.5	9593.7	10000.6	10497.7	10791.3	10804.2	10951.0	10750.1
6358.9	32.5°	6405.3	6518.6	6752.9	7023.4	7497.3	7824.4	7772.8	7793.4	7669.8
4144.0	35°	4164.6	4316.5	4483.9	4612.7	4898.6	5259.2	5230.8	5205.1	5120.1
2724.9	37.5°	2784.1	2843.3	2936.1	3052.0	3237.4	3464.0	3538.7	3446.0	3410.0
1838.9	40°	1882.7	1985.7	2047.5	2135.1	2222.7	2413.2	2464.7	2446.7	2410.7
1287.7	42.5°	1336.7	1416.5	1493.8	1578.8	1625.1	1743.6	1844.1	1815.7	1800.3
978.7	45°	1014.7	1086.9	1177.0	1241.4	1287.7	1357.3	1452.6	1462.9	1439.7
785.5	47.5°	813.9	878.2	950.4	1030.2	1084.3	1128.1	1210.5	1241.4	1225.9
661.9	50°	690.2	739.2	808.7	888.5	947.8	986.4	1058.5	1092.0	1081.7
553.7	52.5°	587.2	646.4	710.8	777.8	849.9	888.5	955.5	1004.4	996.7
458.4	55°	486.8	564.0	631.0	698.0	780.4	819.0	878.2	942.6	929.8
388.9	57.5°	425.0	489.3	558.9	623.3	710.8	762.3	816.4	883.4	880.8
319.4	60°	355.4	419.8	497.1	551.2	643.9	716.0	764.9	834.5	839.6
242.1	62.5°	283.3	363.1	422.4	497.1	582.1	667.1	713.4	783.0	808.7
185.4	65°	211.2	298.8	365.7	440.4	520.2	615.5	656.8	726.3	752.0
133.9	67.5°	157.1	224.1	309.1	373.4	463.6	546.0	594.9	659.3	677.4
79.8	70°	118.5	172.6	257.5	314.2	406.9	473.9	522.8	571.8	594.9
54.1	72.5°	69.5	128.8	203.5	270.4	350.3	406.9	443.0	481.6	497.1
25.8	75°	48.9	97.9	159.7	224.1	283.3	329.7	363.1	396.6	412.1
12.9	77.5°	25.8	72.1	126.2	180.3	221.5	260.1	293.6	319.4	329.7
10.3	80°	15.5	51.5	103.0	141.7	170.0	203.5	236.9	255.0	252.4
7.7	82.5°	10.3	41.2	74.7	103.0	123.6	149.4	172.6	185.4	185.4
5.2	85°	7.7	28.3	51.5	79.8	82.4	103.0	108.2	121.0	123.6
5.2	87.5°	5.2	18.0	28.3	46.4	43.8	54.1	56.7	64.4	69.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
31114.5
31243.3
32116.4
32417.7
31949.0
31065.6
29636.2
27145.7
24104.0
20500.9
17232.6
13807.2
10786.2
7739.4
5045.4
3402.2
2415.8
1787.4
1437.1
1218.2
1079.1
991.6
929.8
878.2
839.6
806.1
749.5
677.4
589.8
491.9
406.9
327.1
249.8
182.9
121.0
67.0
0.0

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