

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: P636480

Luminaire Tested: **IFLD-S-SA2E-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636480
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9944.7 lumens
Efficiency: N/A
Efficacy: 63.7 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): 156.2
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



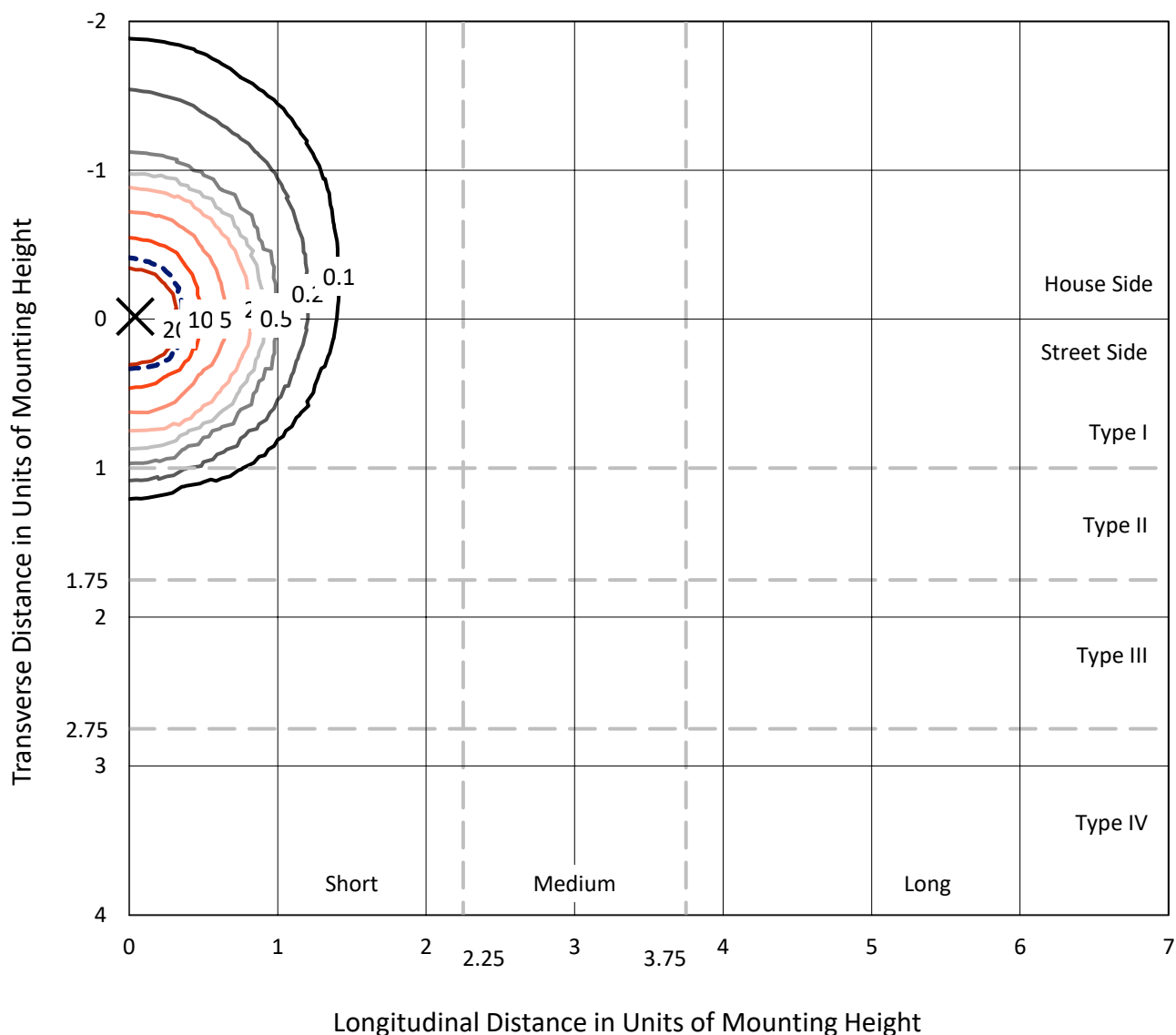
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

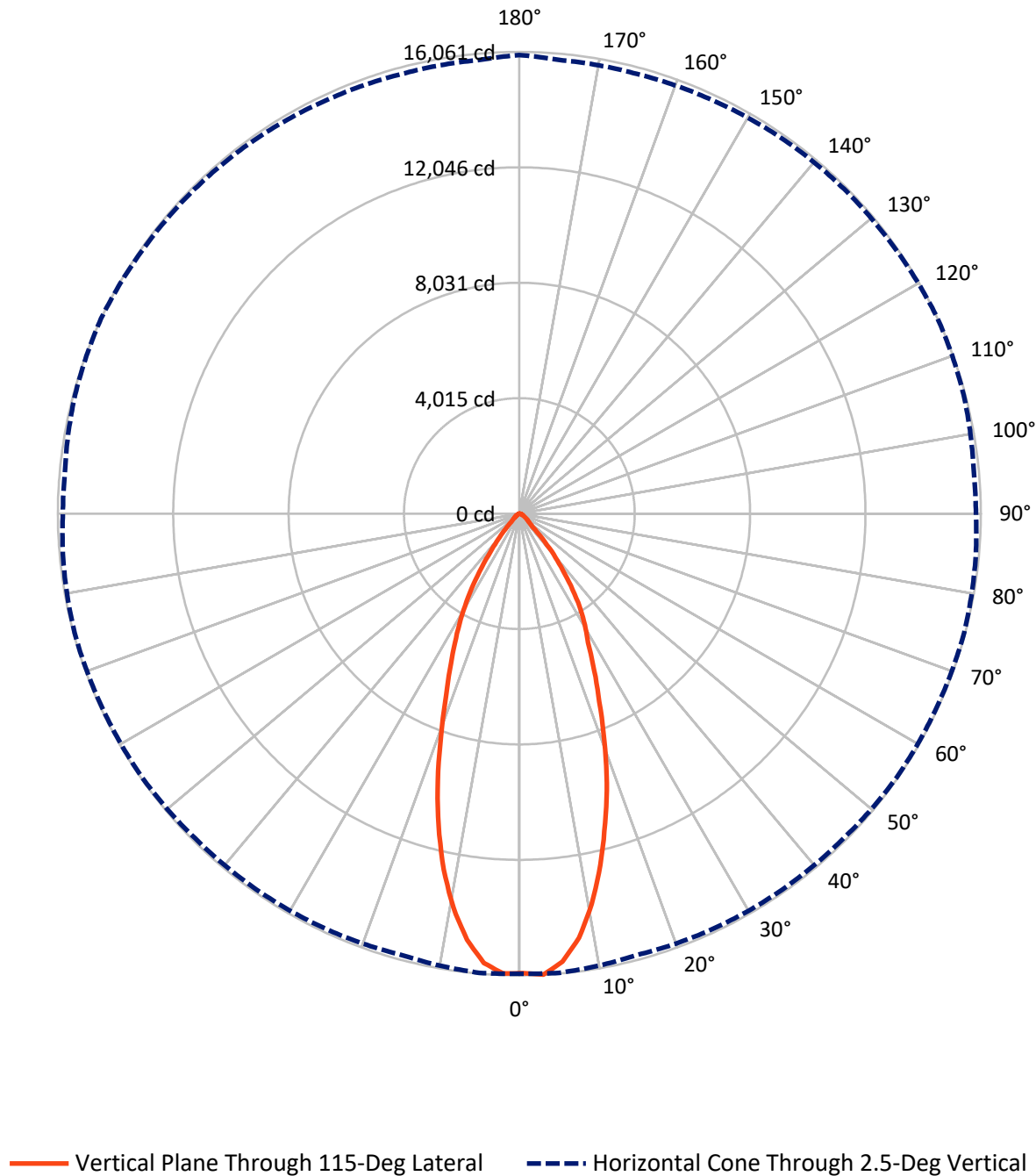


Based on 20 foot mounting height. Maximum calculated value = 40 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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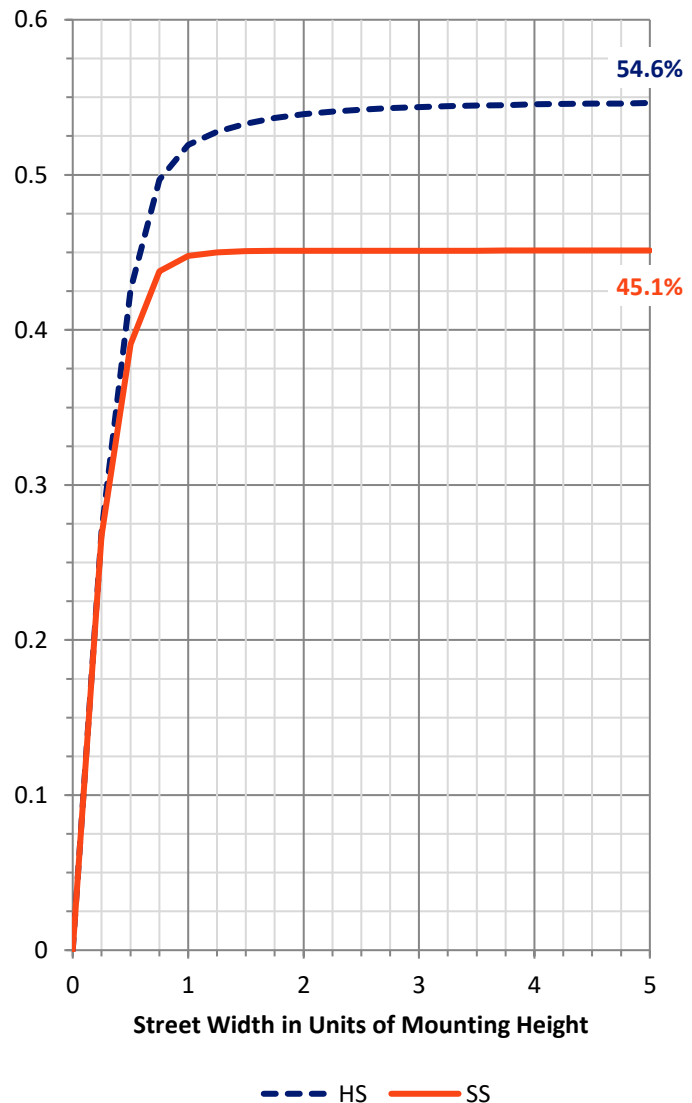
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5488.3	0.0	5488.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4456.4	0.0	4456.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	9944.7	0.0	9944.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1433.8	14.4
10°-20°	3030.4	30.5
20°-30°	2735.1	27.5
30°-40°	1810.0	18.2
40°-50°	542.2	5.5
50°-60°	217.5	2.2
60°-70°	112.6	1.1
70°-80°	48.9	0.5
80°-90°	14.2	0.1
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°	9944.7	100.0
0°-180°	9944.7	100.0

Coefficient of Utilization



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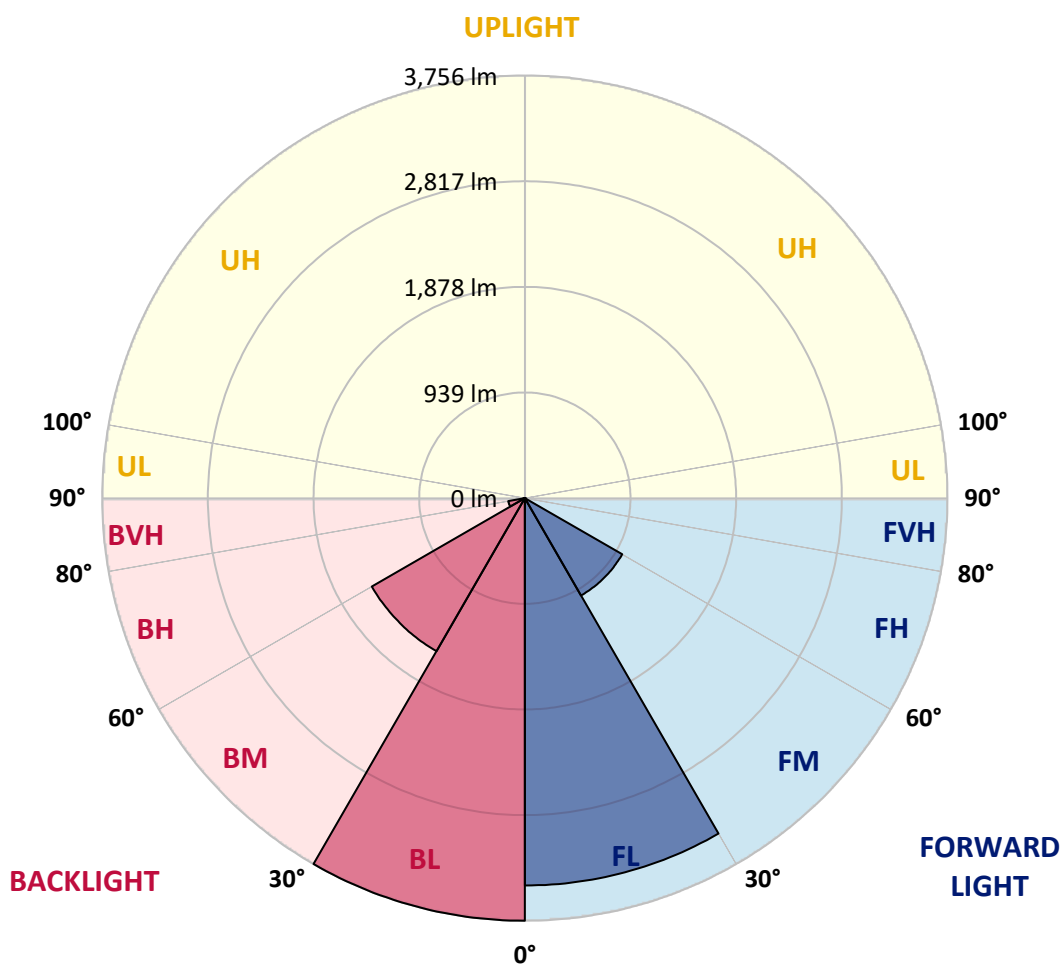
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3442.9	34.6			
FM	(30°-60°)	999.0	10.0			
FH	(60°-80°)	12.4	0.1			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	3756.4	37.8	B4/5000		
BM	(30°-60°)	1570.6	15.8	B2/2500		
BH	(60°-80°)	149.1	1.5	B1/500		G1/500
BVH	(80°-90°)	12.2	0.1			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1
2.5°	16006.4	16034.9	15892.5	15941.3	15961.7	15967.8	16018.6	16010.5	16024.7	15949.5
5°	15794.9	15740.0	15634.2	15636.3	15630.2	15573.2	15689.1	15681.0	15656.6	15567.1
7.5°	15074.9	15154.2	14954.9	14950.9	14946.8	14877.6	15030.2	14936.6	14957.0	14828.8
10°	14021.4	14031.6	13854.6	13838.3	13852.6	13763.1	13940.0	13903.4	13942.1	13807.8
12.5°	12729.9	12786.8	12591.6	12563.1	12620.1	12494.0	12636.3	12654.6	12597.7	12579.4
15°	9984.2	10134.7	10504.9	11070.3	11216.7	11110.9	11224.8	11222.8	11247.2	11108.9
17.5°	7606.6	7620.8	7533.4	7803.9	9370.0	9878.4	9902.8	9709.6	9563.2	9512.3
20°	6640.5	6689.3	6610.0	6632.4	6882.6	8373.4	8430.3	8139.5	7889.3	7869.0
22.5°	5871.7	5902.2	5845.3	5863.6	5875.8	6050.7	7041.2	6784.9	6664.9	6573.4
25°	5220.9	5220.9	5190.4	5196.5	5184.3	4926.0	5434.5	5727.3	5658.2	5625.6
27.5°	4627.0	4635.2	4596.5	4618.9	4470.4	4053.5	3992.5	4856.8	4783.6	4724.6
30°	4063.6	4090.1	4053.5	4065.7	3742.3	3400.6	3225.7	4051.4	4143.0	4126.7
32.5°	3058.9	3178.9	3473.8	3486.0	3046.7	2784.3	2707.1	3252.1	3599.9	3569.4
35°	1895.6	1889.4	1901.7	2487.4	2336.9	2157.9	2186.4	2456.9	2849.4	2835.2
37.5°	1446.1	1444.0	1466.4	1407.4	1531.5	1637.3	1659.6	1659.6	2080.6	2082.7
40°	1096.2	1088.1	1086.1	992.5	831.8	1228.4	1191.8	1161.3	1446.1	1476.6
42.5°	699.6	724.1	705.7	604.1	543.0	671.2	748.5	724.1	892.9	915.2
45°	390.5	390.5	374.2	317.3	315.2	339.7	427.1	398.6	457.6	488.1
47.5°	189.1	185.1	203.4	250.2	260.3	252.2	305.1	317.3	345.8	374.2
50°	152.5	152.5	144.4	130.2	215.6	207.5	225.8	242.0	258.3	282.7
52.5°	128.1	128.1	118.0	109.8	124.1	158.6	160.7	191.2	189.1	223.7
55°	65.1	67.1	95.6	95.6	83.4	130.2	132.2	154.6	158.6	187.1
57.5°	6.1	8.1	12.2	59.0	65.1	71.2	99.7	113.9	132.2	144.4
60°	2.0	2.0	4.1	8.1	38.6	48.8	63.0	75.3	91.5	120.0
62.5°	0.0	0.0	2.0	4.1	8.1	30.5	34.6	38.6	54.9	75.3
65°	0.0	0.0	2.0	2.0	4.1	10.2	14.2	24.4	34.6	46.8
67.5°	0.0	0.0	2.0	2.0	4.1	6.1	8.1	12.2	16.3	30.5
70°	0.0	0.0	2.0	2.0	4.1	6.1	6.1	8.1	10.2	14.2
72.5°	0.0	0.0	2.0	2.0	4.1	8.1	6.1	6.1	8.1	10.2
75°	0.0	0.0	2.0	2.0	4.1	6.1	6.1	6.1	6.1	6.1
77.5°	0.0	0.0	2.0	2.0	4.1	6.1	6.1	6.1	4.1	4.1
80°	0.0	0.0	2.0	2.0	4.1	6.1	8.1	8.1	4.1	4.1
82.5°	0.0	0.0	2.0	4.1	4.1	10.2	12.2	10.2	4.1	2.0
85°	0.0	0.0	2.0	2.0	6.1	10.2	10.2	6.1	4.1	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.1	6.1	6.1	2.0	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°
15986.1	0°	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1	15986.1
15888.5	2.5°	15880.3	16004.4	16061.3	16002.4	15973.9	15933.2	15874.2	15833.5	15841.7
15518.3	5°	15483.7	15613.9	15658.6	15607.8	15565.1	15542.7	15532.5	15552.9	15605.8
14773.9	7.5°	14769.8	14853.2	14902.0	14877.6	14818.7	14885.8	14904.1	14891.9	14969.2
13767.2	10°	13771.2	13862.7	13818.0	13828.2	13759.0	13793.6	13783.4	13828.2	13905.5
12565.1	12.5°	12483.8	12571.2	12536.7	12530.6	12457.4	12522.4	12481.8	12530.6	12632.3
11052.0	15°	11131.3	11186.2	11163.8	11129.2	11064.2	11086.5	11212.6	11204.5	11249.2
9481.8	17.5°	9441.1	9705.5	9850.0	9880.5	9827.6	9872.3	9961.8	9939.4	10041.1
7826.3	20°	7812.0	8078.5	8434.4	8723.2	8729.3	8735.4	8792.3	8806.6	8894.0
6575.4	22.5°	6547.0	6736.1	7118.5	7500.9	7765.3	7820.2	7814.1	7834.4	7858.8
5580.9	25°	5566.7	5705.0	6054.8	6319.2	6782.9	6937.5	6982.2	6937.5	6951.7
4704.3	27.5°	4757.2	4968.7	5084.6	5367.3	5820.9	6178.8	6164.6	6138.2	6142.2
4094.1	30°	4092.1	4319.9	4490.7	4576.2	4917.9	5434.5	5487.3	5412.1	5414.1
3555.2	32.5°	3532.8	3604.0	3856.2	3925.3	4145.0	4614.8	4795.8	4738.9	4728.7
2843.3	35°	2926.7	2965.4	3081.3	3217.6	3347.7	3703.6	4002.6	3949.7	3976.2
2090.8	37.5°	2082.7	2241.3	2353.2	2465.0	2558.6	2782.3	3142.3	3093.5	3119.9
1480.6	40°	1468.4	1539.6	1732.8	1781.7	1920.0	2023.7	2328.8	2312.5	2345.0
919.3	42.5°	903.0	953.9	1051.5	1098.3	1191.8	1250.8	1429.8	1450.1	1492.8
508.5	45°	512.5	534.9	602.0	652.9	722.0	746.4	809.5	837.9	862.4
394.6	47.5°	390.5	414.9	459.7	504.4	561.3	581.7	626.4	669.1	691.5
305.1	50°	319.3	341.7	388.5	425.1	482.0	500.3	536.9	583.7	612.2
231.9	52.5°	242.0	274.6	331.5	370.2	429.1	451.5	486.1	532.9	559.3
191.2	55°	199.3	223.7	274.6	327.5	382.4	412.9	435.2	492.2	520.7
156.6	57.5°	170.8	189.1	221.7	284.7	331.5	376.3	394.6	447.4	475.9
124.1	60°	130.2	158.6	187.1	235.9	288.8	335.6	355.9	402.7	425.1
89.5	62.5°	107.8	126.1	162.7	189.1	248.1	296.9	317.3	360.0	376.3
59.0	65°	75.3	101.7	136.3	152.5	207.5	254.2	282.7	315.2	331.5
34.6	67.5°	44.7	75.3	107.8	130.2	168.8	215.6	246.1	276.6	290.8
20.3	70°	28.5	59.0	85.4	109.8	132.2	176.9	213.6	240.0	233.9
12.2	72.5°	16.3	36.6	63.0	89.5	109.8	148.5	183.0	203.4	144.4
8.1	75°	10.2	26.4	52.9	73.2	89.5	118.0	150.5	154.6	89.5
4.1	77.5°	8.1	20.3	40.7	59.0	61.0	87.5	105.8	120.0	67.1
4.1	80°	4.1	16.3	34.6	48.8	38.6	61.0	81.4	93.6	52.9
2.0	82.5°	4.1	10.2	26.4	34.6	28.5	46.8	59.0	67.1	44.7
2.0	85°	2.0	8.1	14.2	20.3	20.3	30.5	26.4	32.5	28.5
2.0	87.5°	2.0	4.1	8.1	10.2	8.1	12.2	14.2	14.2	12.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15986.1
15951.5
15715.6
15046.4
13936.0
12650.6
11259.4
10024.9
8875.7
7814.1
6929.3
6148.3
5416.2
4753.1
4000.6
3142.3
2357.2
1541.7
860.3
701.7
624.4
577.6
528.8
488.1
429.1
378.3
331.5
288.8
215.6
128.1
83.4
67.1
54.9
48.8
28.5
10.2
0.0

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