

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: P638292

Luminaire Tested: **IFLD-M-SA4D-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638292
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19120.6 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

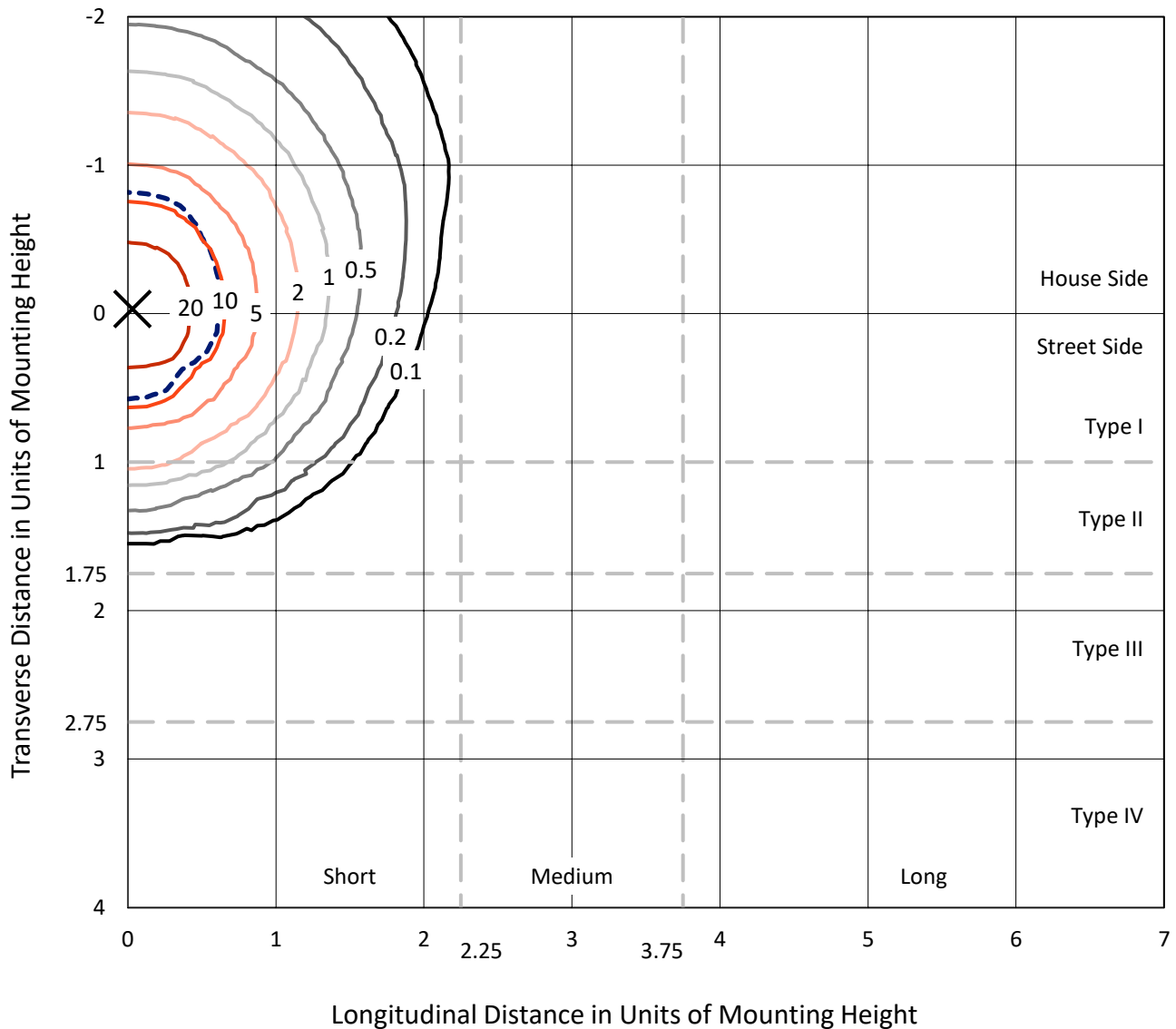
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

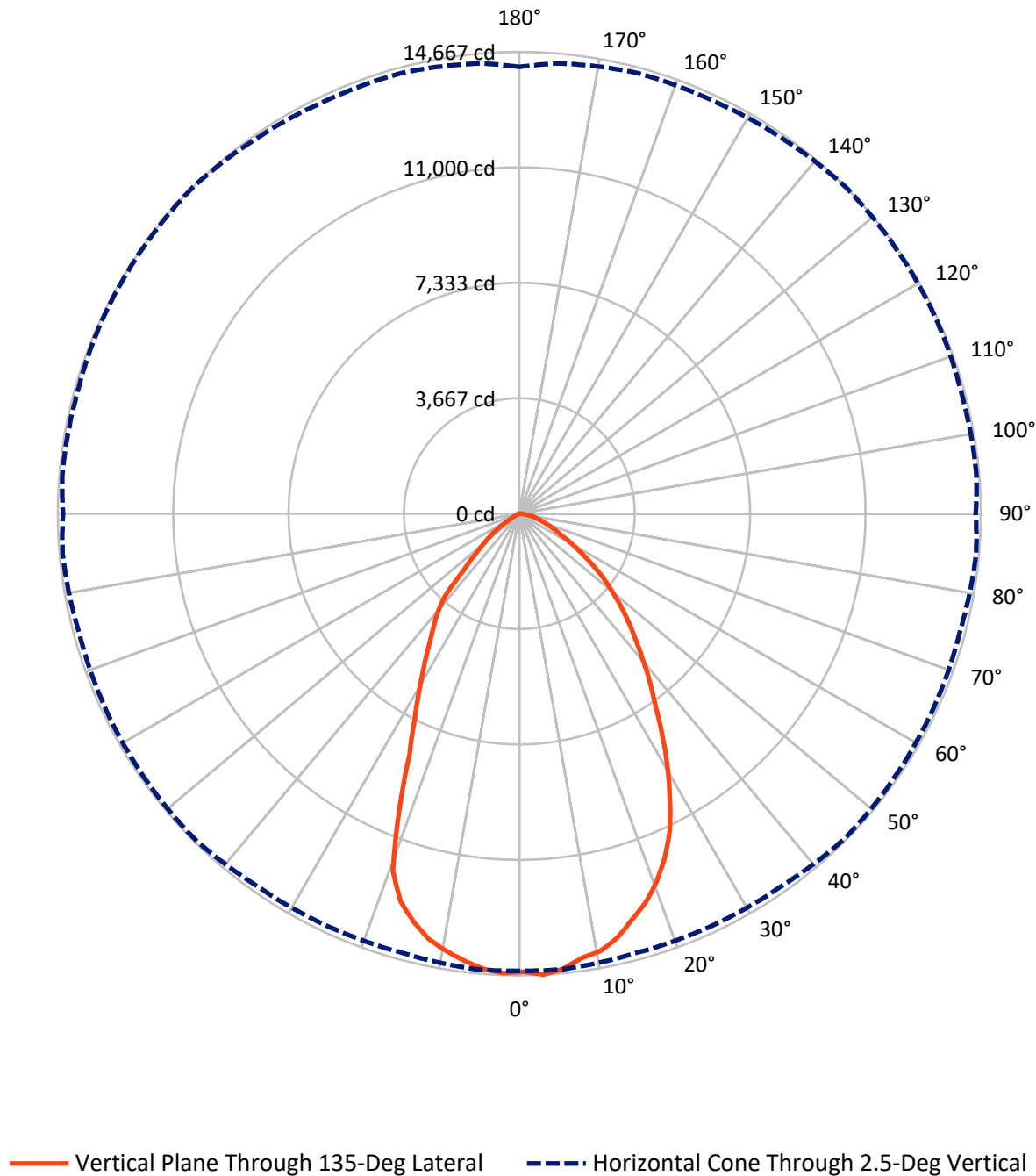
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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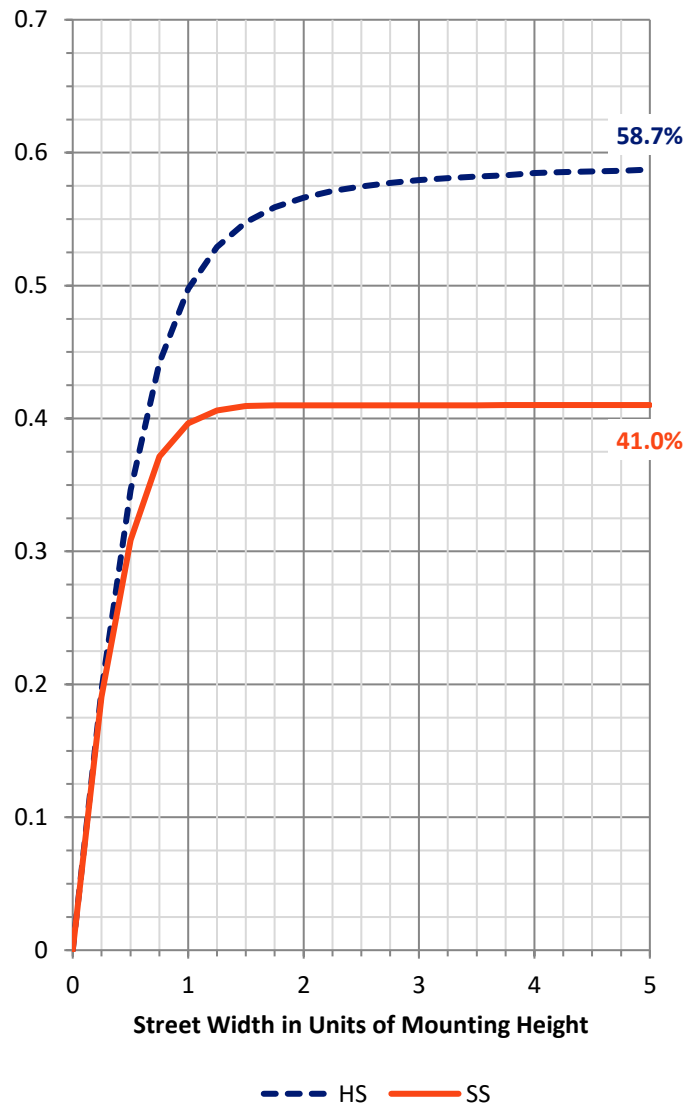
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11324.2	0.0	11324.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7796.4	0.0	7796.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	19120.6	0.0	19120.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1364.6	7.1
10°-20°	3659.3	19.1
20°-30°	4462.7	23.3
30°-40°	4074.4	21.3
40°-50°	2944.5	15.4
50°-60°	1607.7	8.4
60°-70°	664.7	3.5
70°-80°	269.2	1.4
80°-90°	73.2	0.4
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°	19120.6	100.0
0°-180°	19120.6	100.0

Coefficient of Utilization



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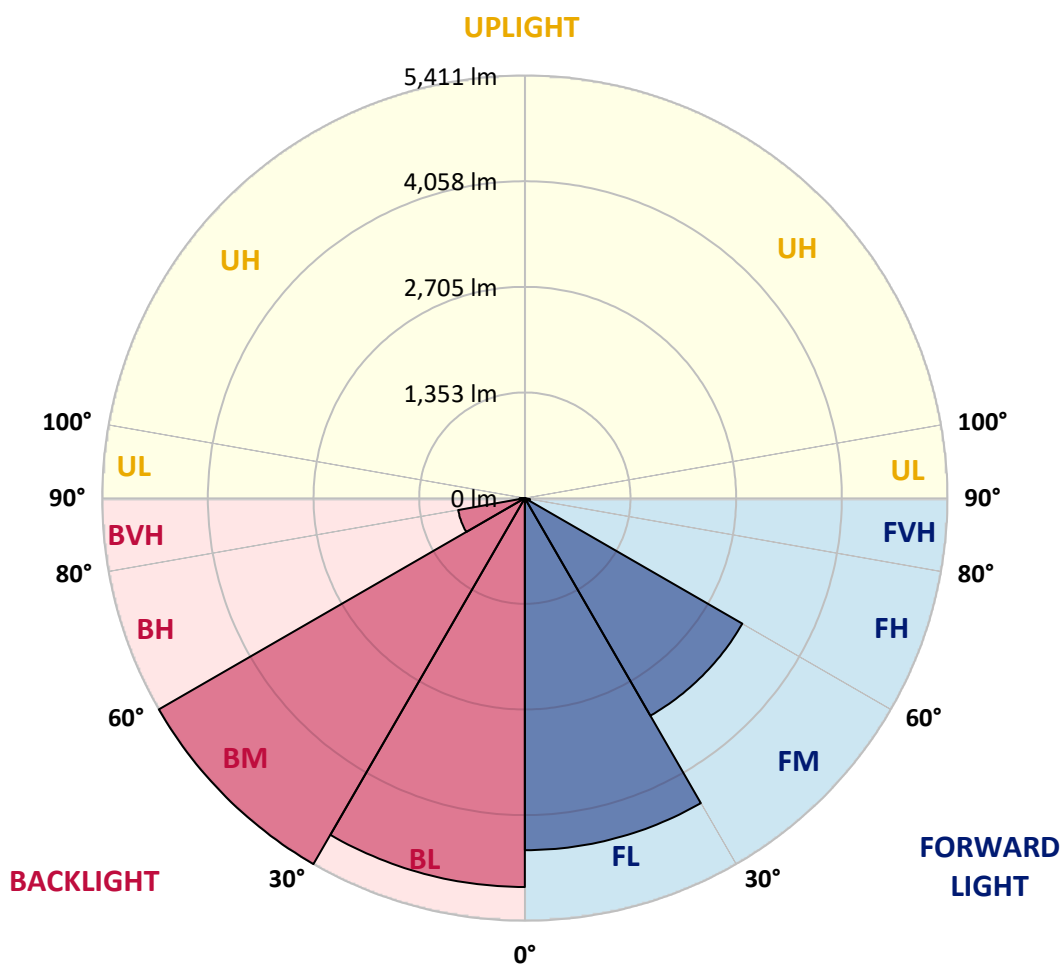
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4507.4	23.6			
FM	(30°-60°)	3215.7	16.8			
FH	(60°-80°)	67.4	0.4			G0/660
FVH	(80°-90°)	5.9	0.0			G0/10
BL	(0°-30°)	4979.3	26.0	B4/5000		
BM	(30°-60°)	5410.9	28.3	B4/8500		
BH	(60°-80°)	866.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	67.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7
2.5°	14523.7	14542.6	14440.3	14451.0	14469.9	14607.2	14572.2	14539.9	14494.1	14572.2
5°	14504.9	14515.7	14408.0	14370.3	14386.4	14510.3	14397.2	14397.2	14386.4	14373.0
7.5°	14359.5	14364.9	14281.4	14214.1	14257.2	14313.7	14230.3	14270.6	14211.4	14257.2
10°	14141.4	14106.4	14006.8	13987.9	14036.4	14090.2	14033.7	14071.4	14017.5	14052.5
12.5°	13821.0	13767.1	13686.4	13662.1	13745.6	13818.3	13772.5	13751.0	13681.0	13767.1
15°	12585.1	12544.7	12727.8	13048.2	13336.3	13398.3	13349.8	13371.3	13225.9	13250.2
17.5°	10358.3	10282.9	10479.5	11238.8	12321.2	12892.0	12849.0	12709.0	12493.5	12542.0
20°	9413.2	9391.7	9370.2	9550.6	10307.2	12038.5	12097.7	11742.3	11435.4	11368.1
22.5°	8880.1	8872.0	8850.5	8890.9	9090.1	10202.2	10880.7	10552.2	10347.6	10328.7
25°	8392.8	8379.3	8314.7	8365.8	8365.8	8430.5	9300.2	9499.4	9319.0	9297.5
27.5°	7897.3	7873.1	7862.3	7886.6	7762.7	7326.5	7547.3	8519.3	8425.1	8430.5
30°	7361.5	7353.4	7323.8	7375.0	6992.6	6451.4	6311.4	7630.8	7649.6	7644.2
32.5°	6564.5	6599.5	6734.1	6790.7	6160.6	5713.6	5479.4	6602.2	6987.2	6979.2
35°	4768.6	4768.6	5207.4	6023.3	5398.6	5062.0	4935.5	5597.9	6332.9	6359.9
37.5°	3920.4	3933.9	4020.0	4391.6	4658.2	4539.7	4502.0	4712.0	5492.9	5535.9
40°	3527.3	3527.3	3527.3	3373.8	3365.7	4090.0	4068.5	4001.2	4744.3	4838.6
42.5°	3169.2	3177.2	3182.6	2794.9	2579.5	3535.4	3486.9	3384.6	4073.9	4184.3
45°	2800.3	2813.7	2829.9	2337.2	2242.9	2544.5	2951.1	2838.0	3411.5	3554.2
47.5°	1709.8	1731.3	2097.5	1981.7	1992.5	1962.9	2407.2	2388.3	2797.6	2999.5
50°	1155.1	1163.2	1198.2	1257.4	1709.8	1542.8	1704.4	1976.3	2124.4	2431.4
52.5°	969.3	982.8	896.6	815.9	1122.8	1206.3	1190.1	1467.5	1526.7	1906.3
55°	681.2	724.3	683.9	675.8	638.1	937.0	902.0	1128.2	1165.9	1448.6
57.5°	70.0	80.8	140.0	503.5	417.3	530.4	643.5	826.6	864.3	1069.0
60°	5.4	5.4	13.5	70.0	304.3	317.7	444.3	508.9	581.6	745.8
62.5°	0.0	2.7	5.4	10.8	48.5	169.6	223.5	266.6	350.0	482.0
65°	0.0	0.0	2.7	8.1	10.8	64.6	86.2	140.0	191.2	298.9
67.5°	0.0	0.0	2.7	5.4	8.1	16.2	29.6	51.2	102.3	169.6
70°	0.0	0.0	2.7	5.4	8.1	13.5	21.5	32.3	45.8	91.5
72.5°	0.0	0.0	2.7	2.7	5.4	13.5	16.2	21.5	32.3	45.8
75°	0.0	0.0	2.7	2.7	8.1	16.2	13.5	16.2	21.5	29.6
77.5°	0.0	0.0	2.7	5.4	8.1	16.2	13.5	16.2	16.2	18.8
80°	0.0	0.0	2.7	5.4	10.8	18.8	16.2	16.2	13.5	13.5
82.5°	0.0	0.0	2.7	8.1	10.8	24.2	24.2	21.5	10.8	8.1
85°	0.0	0.0	5.4	10.8	16.2	26.9	26.9	21.5	8.1	5.4
87.5°	0.0	0.0	5.4	8.1	13.5	18.8	26.9	21.5	8.1	2.7
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°
14550.7	0°	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7	14550.7
14504.9	2.5°	14577.6	14561.4	14615.3	14636.8	14666.5	14553.4	14483.4	14486.1	14356.8
14340.7	5°	14426.8	14429.5	14499.5	14494.1	14523.7	14461.8	14434.9	14389.1	14276.0
14133.3	7.5°	14235.6	14211.4	14278.7	14329.9	14254.5	14297.6	14235.6	14257.2	14189.9
13950.2	10°	14087.6	14031.0	14092.9	14127.9	14130.6	14087.6	14028.3	13971.8	13947.5
13664.8	12.5°	13759.1	13686.4	13791.4	13839.8	13831.8	13748.3	13681.0	13694.4	13616.4
13164.0	15°	13306.7	13309.4	13384.8	13430.6	13387.5	13368.6	13374.0	13341.7	13274.4
12472.0	17.5°	12614.7	12655.1	12854.4	12964.7	12989.0	12951.3	12932.4	12894.7	12827.4
11368.1	20°	11462.3	11704.6	12060.0	12402.0	12469.3	12458.5	12391.2	12375.1	12337.4
10274.9	22.5°	10449.9	10630.3	11042.2	11575.4	11850.0	11876.9	11796.2	11771.9	11731.5
9297.5	25°	9402.5	9596.3	9967.9	10546.8	11114.9	11230.7	11217.3	11144.6	11101.5
8430.5	27.5°	8519.3	8713.2	9049.7	9572.1	10180.6	10552.2	10587.2	10471.4	10468.7
7657.7	30°	7722.3	7988.9	8244.7	8670.1	9259.8	9817.1	9876.4	9795.6	9803.7
6949.5	32.5°	7097.6	7318.4	7536.5	7821.9	8312.0	8960.9	9192.5	9117.1	9087.4
6359.9	35°	6459.5	6610.3	6833.8	7094.9	7428.8	8072.3	8473.5	8417.0	8387.4
5562.9	37.5°	5732.5	5991.0	6152.5	6446.0	6707.2	7218.8	7784.2	7776.2	7714.2
4884.3	40°	4986.6	5258.6	5503.6	5799.8	6001.7	6408.3	7035.7	7033.0	7041.1
4181.6	42.5°	4310.8	4561.2	4857.4	5180.5	5374.4	5670.6	6343.7	6381.4	6427.2
3602.7	45°	3699.6	3925.8	4200.4	4593.5	4827.8	4997.4	5595.2	5767.5	5764.8
3085.7	47.5°	3150.3	3363.0	3594.6	3976.9	4275.8	4429.3	4924.7	5169.7	5153.6
2531.0	50°	2644.1	2832.6	3074.9	3352.3	3753.4	3888.1	4257.0	4580.1	4555.8
2016.7	52.5°	2127.1	2388.3	2592.9	2846.1	3268.8	3400.7	3686.1	4001.2	3982.3
1513.2	55°	1658.6	1911.7	2159.4	2377.5	2733.0	2929.5	3134.2	3457.3	3451.9
1184.7	57.5°	1254.7	1532.1	1766.3	1973.7	2256.4	2498.7	2663.0	2956.4	2994.1
810.5	60°	928.9	1141.7	1394.8	1626.3	1849.8	2100.2	2210.6	2498.7	2514.9
554.7	62.5°	632.8	867.0	1114.7	1324.7	1491.7	1750.2	1849.8	2086.7	2116.4
355.4	65°	438.9	589.7	872.4	1023.2	1227.8	1448.6	1548.2	1736.7	1795.9
204.6	67.5°	290.8	420.0	681.2	818.5	1020.5	1171.3	1297.8	1451.3	1515.9
129.2	70°	158.9	309.6	487.4	646.2	821.2	966.6	1090.5	1214.4	1270.9
59.2	72.5°	107.7	207.3	339.3	511.6	662.4	805.1	915.5	1007.0	1009.7
35.0	75°	53.9	140.0	258.5	395.8	517.0	657.0	756.6	810.5	745.8
21.5	77.5°	32.3	102.3	210.0	317.7	420.0	530.4	587.0	616.6	511.6
16.2	80°	18.8	72.7	164.2	253.1	290.8	390.4	444.3	452.4	342.0
10.8	82.5°	13.5	53.9	129.2	185.8	177.7	274.6	333.9	323.1	218.1
8.1	85°	8.1	37.7	80.8	115.8	107.7	180.4	193.9	199.3	126.6
5.4	87.5°	5.4	21.5	43.1	61.9	51.2	78.1	78.1	94.2	61.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
14550.7
14189.9
14249.1
14076.8
13839.8
13549.0
13207.1
12797.8
12251.2
11720.8
11055.7
10463.3
9763.3
9090.1
8347.0
7765.4
7041.1
6402.9
5770.2
5159.0
4577.4
4022.7
3465.3
2978.0
2539.1
2121.7
1782.5
1507.8
1249.4
985.5
697.4
492.7
320.4
201.9
115.8
53.9
0.0

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