

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: P638113

Luminaire Tested: **IFLD-S-SA6D-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638113
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32024.4 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 368.2
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



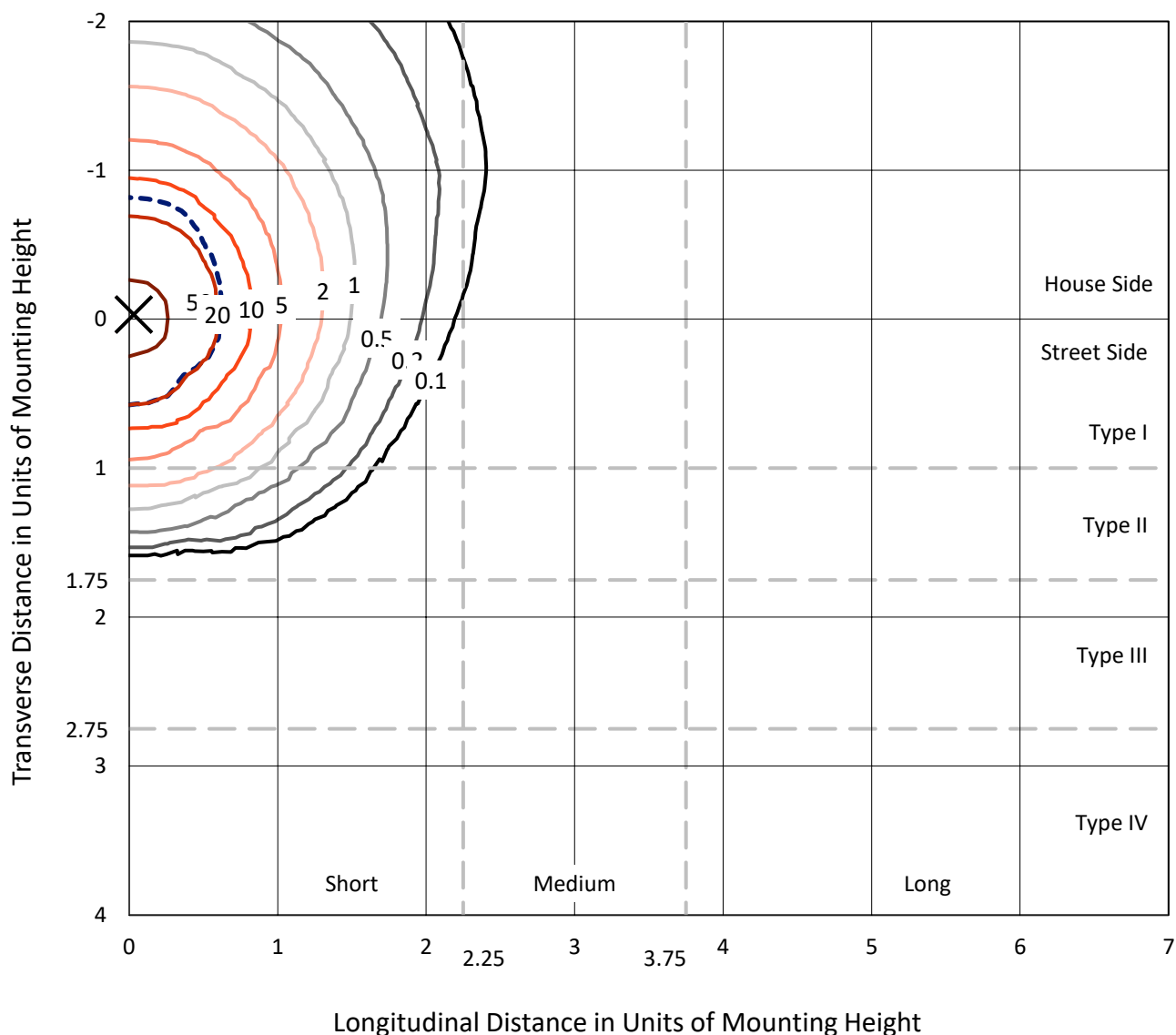
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

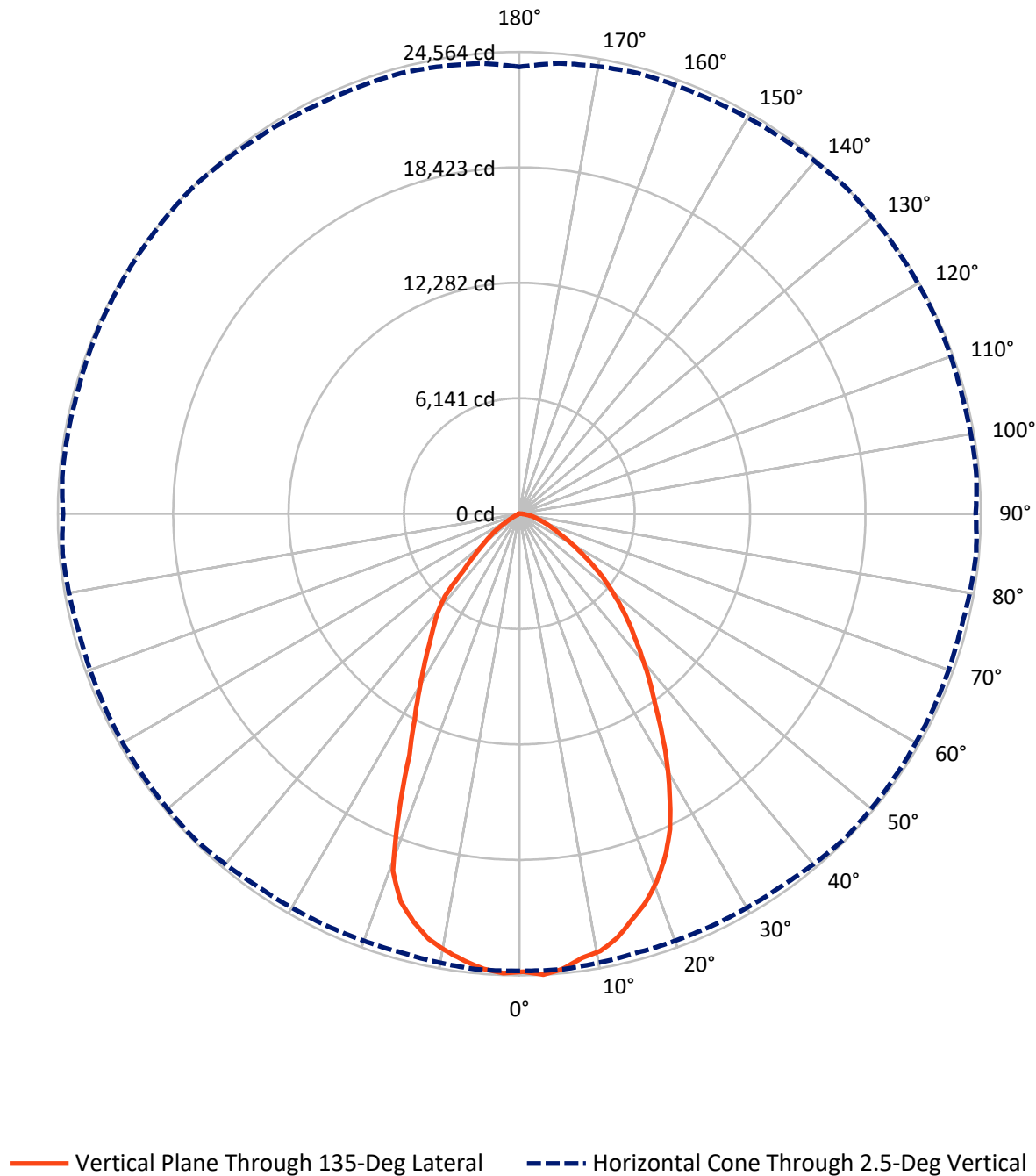


Based on 20 foot mounting height. Maximum calculated value = 60.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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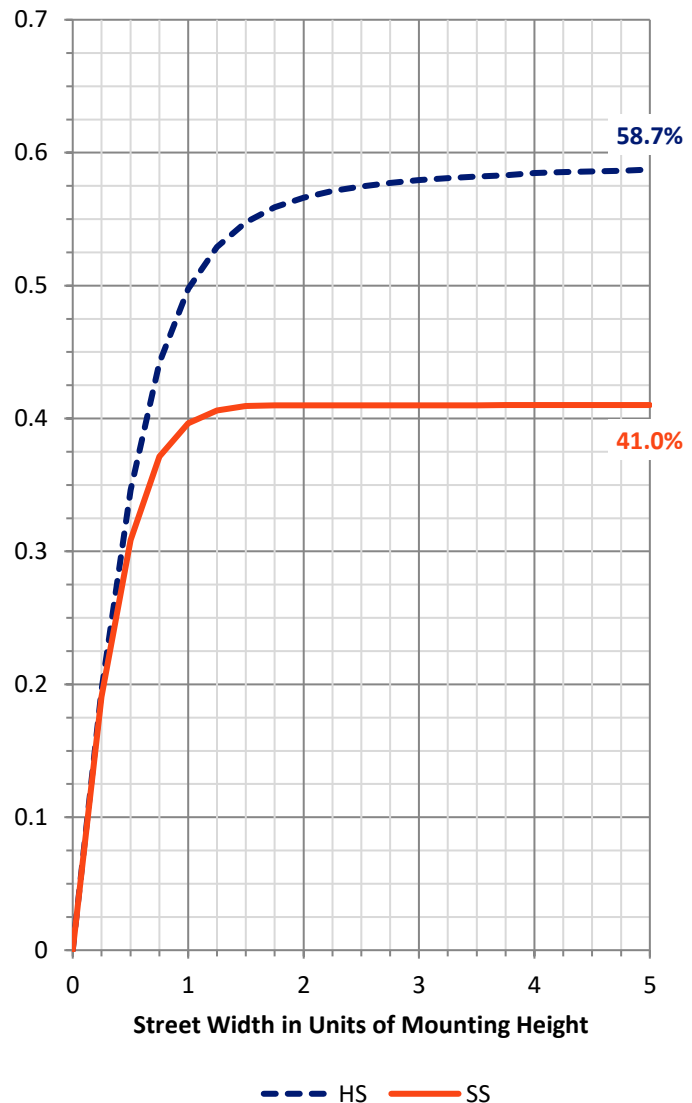
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18966.5	0.0	18966.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13057.9	0.0	13057.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	32024.4	0.0	32024.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2285.6	7.1
10°-20°	6128.9	19.1
20°-30°	7474.5	23.3
30°-40°	6824.2	21.3
40°-50°	4931.7	15.4
50°-60°	2692.7	8.4
60°-70°	1113.3	3.5
70°-80°	450.9	1.4
80°-90°	122.7	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°	32024.4	100.0
0°-180°	32024.4	100.0

Coefficient of Utilization



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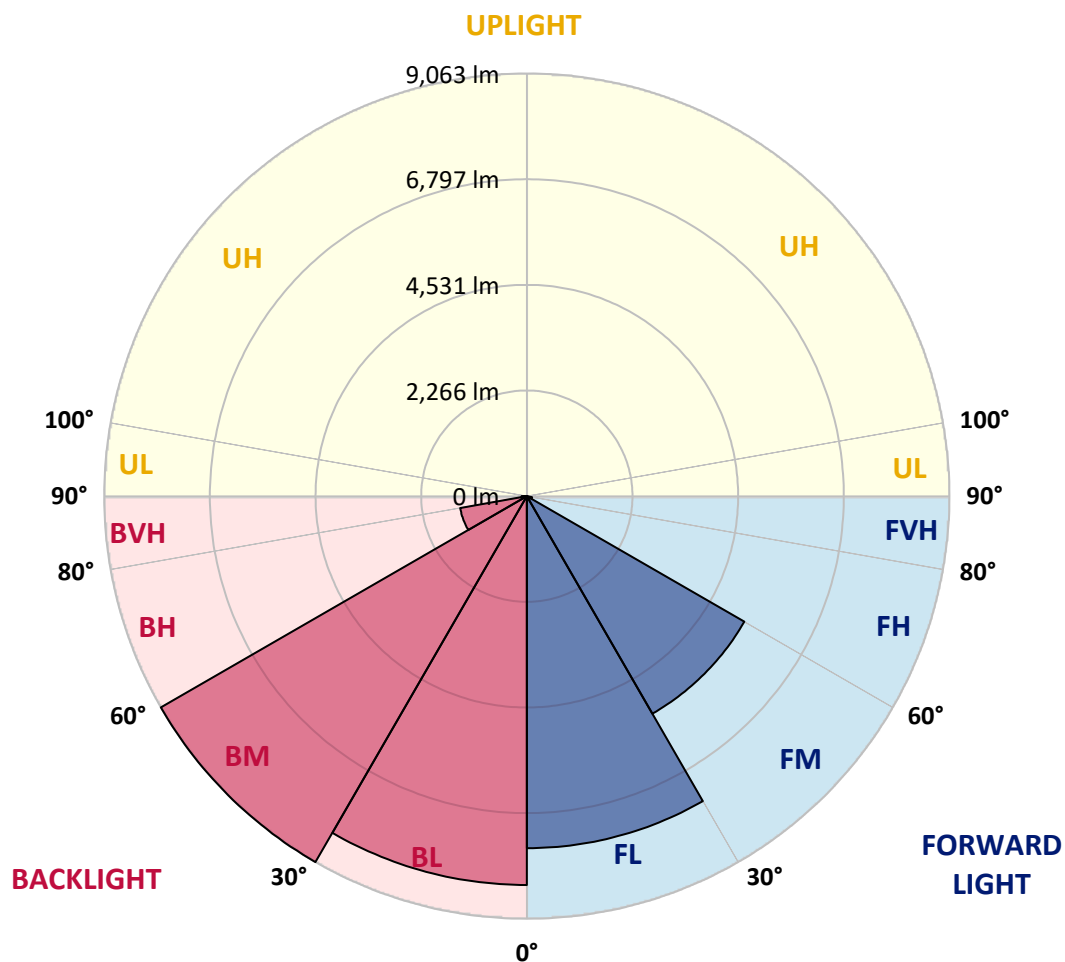
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7549.3	23.6			
FM	(30°-60°)	5385.9	16.8			
FH	(60°-80°)	112.8	0.4			G0/660
FVH	(80°-90°)	9.8	0.0			G0/10
BL	(0°-30°)	8339.6	26.0	B5		
BM	(30°-60°)	9062.7	28.3	B5		
BH	(60°-80°)	1451.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	112.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5
2.5°	24325.4	24357.0	24185.6	24203.7	24235.2	24465.2	24406.6	24352.5	24275.8	24406.6
5°	24293.8	24311.9	24131.5	24068.4	24095.4	24302.9	24113.5	24113.5	24095.4	24072.9
7.5°	24050.3	24059.3	23919.5	23806.8	23879.0	23973.7	23833.9	23901.5	23802.3	23879.0
10°	23685.0	23626.4	23459.5	23428.0	23509.2	23599.3	23504.6	23567.8	23477.6	23536.2
12.5°	23148.4	23058.2	22922.9	22882.3	23022.1	23143.9	23067.2	23031.1	22913.9	23058.2
15°	21078.4	21010.8	21317.4	21854.1	22336.6	22440.4	22359.2	22395.3	22151.7	22192.3
17.5°	17348.9	17222.6	17551.8	18823.6	20636.5	21592.5	21520.4	21285.9	20925.1	21006.3
20°	15766.0	15729.9	15693.8	15996.0	17263.2	20162.9	20262.2	19666.9	19152.8	19040.0
22.5°	14873.0	14859.5	14823.4	14891.1	15224.8	17087.3	18223.8	17673.6	17330.8	17299.3
25°	14056.8	14034.2	13926.0	14011.7	14011.7	14119.9	15576.6	15910.3	15608.1	15572.1
27.5°	13227.0	13186.4	13168.4	13209.0	13001.5	12270.9	12640.7	14268.7	14110.9	14119.9
30°	12329.6	12316.0	12266.4	12352.1	11711.7	10805.3	10570.8	12780.5	12812.1	12803.1
32.5°	10994.7	11053.3	11278.8	11373.5	10318.2	9569.6	9177.3	11057.8	11702.7	11689.2
35°	7986.7	7986.7	8721.8	10088.2	9042.0	8478.3	8266.3	9375.7	10606.9	10652.0
37.5°	6566.1	6588.7	6733.0	7355.3	7801.8	7603.4	7540.2	7892.0	9199.8	9272.0
40°	5907.7	5907.7	5907.7	5650.7	5637.1	6850.3	6814.2	6701.4	7946.1	8104.0
42.5°	5307.9	5321.5	5330.5	4681.1	4320.3	5921.3	5840.1	5668.7	6823.2	7008.1
45°	4690.1	4712.7	4739.7	3914.4	3756.6	4261.7	4942.6	4753.2	5713.8	5952.8
47.5°	2863.7	2899.7	3513.1	3319.2	3337.2	3287.6	4031.7	4000.1	4685.6	5023.8
50°	1934.7	1948.2	2006.8	2106.0	2863.7	2584.1	2854.7	3310.1	3558.2	4072.3
52.5°	1623.5	1646.0	1501.7	1366.4	1880.6	2020.4	1993.3	2457.8	2557.0	3192.9
55°	1141.0	1213.1	1145.5	1131.9	1068.8	1569.4	1510.8	1889.6	1952.7	2426.2
57.5°	117.3	135.3	234.5	843.3	699.0	888.4	1077.8	1384.5	1447.6	1790.4
60°	9.0	9.0	22.5	117.3	509.6	532.1	744.1	852.3	974.1	1249.2
62.5°	0.0	4.5	9.0	18.0	81.2	284.1	374.3	446.5	586.3	807.2
65°	0.0	0.0	4.5	13.5	18.0	108.2	144.3	234.5	320.2	500.6
67.5°	0.0	0.0	4.5	9.0	13.5	27.1	49.6	85.7	171.4	284.1
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	54.1	76.7	153.3
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	27.1	36.1	54.1	76.7
75°	0.0	0.0	4.5	4.5	13.5	27.1	22.5	27.1	36.1	49.6
77.5°	0.0	0.0	4.5	9.0	13.5	27.1	22.5	27.1	27.1	31.6
80°	0.0	0.0	4.5	9.0	18.0	31.6	27.1	27.1	22.5	22.5
82.5°	0.0	0.0	4.5	13.5	18.0	40.6	40.6	36.1	18.0	13.5
85°	0.0	0.0	9.0	18.0	27.1	45.1	45.1	36.1	13.5	9.0
87.5°	0.0	0.0	9.0	13.5	22.5	31.6	45.1	36.1	13.5	4.5
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°
24370.5	0°	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5	24370.5
24293.8	2.5°	24415.6	24388.5	24478.7	24514.8	24564.4	24375.0	24257.8	24262.3	24045.8
24018.8	5°	24163.1	24167.6	24284.8	24275.8	24325.4	24221.7	24176.6	24099.9	23910.5
23671.5	7.5°	23842.9	23802.3	23915.0	24000.7	23874.4	23946.6	23842.9	23879.0	23766.2
23364.8	10°	23594.8	23500.1	23603.9	23662.5	23667.0	23594.8	23495.6	23400.9	23360.3
22886.8	12.5°	23044.7	22922.9	23098.8	23179.9	23166.4	23026.6	22913.9	22936.4	22805.6
22048.0	15°	22287.0	22291.5	22417.8	22494.5	22422.3	22390.7	22399.8	22345.6	22232.9
20889.0	17.5°	21128.0	21195.7	21529.4	21714.3	21754.9	21691.7	21660.2	21597.0	21484.3
19040.0	20°	19197.9	19603.7	20199.0	20771.8	20884.5	20866.5	20753.7	20726.7	20663.5
17209.1	22.5°	17502.2	17804.4	18494.3	19387.3	19847.3	19892.4	19757.1	19716.5	19648.8
15572.1	25°	15747.9	16072.6	16695.0	17664.6	18616.1	18810.0	18787.5	18665.7	18593.6
14119.9	27.5°	14268.7	14593.4	15157.2	16032.0	17051.2	17673.6	17732.2	17538.3	17533.8
12825.6	30°	12933.9	13380.3	13808.8	14521.3	15508.9	16442.4	16541.6	16406.4	16419.9
11639.6	32.5°	11887.6	12257.4	12622.7	13100.7	13921.5	15008.3	15396.2	15269.9	15220.3
10652.0	35°	10818.8	11071.4	11445.7	11883.1	12442.3	13520.1	14192.1	14097.4	14047.8
9317.1	37.5°	9601.2	10034.1	10304.7	10796.3	11233.7	12090.6	13037.6	13024.1	12920.3
8180.6	40°	8352.0	8807.5	9217.9	9713.9	10052.2	10733.1	11783.9	11779.4	11792.9
7003.6	42.5°	7220.1	7639.5	8135.5	8676.7	9001.4	9497.5	10624.9	10688.0	10764.7
6034.0	45°	6196.4	6575.2	7035.2	7693.6	8085.9	8370.0	9371.2	9659.8	9655.3
5168.1	47.5°	5276.4	5632.6	6020.5	6660.9	7161.4	7418.5	8248.3	8658.7	8631.6
4239.1	50°	4428.5	4744.2	5150.1	5614.6	6286.5	6512.0	7129.9	7671.0	7630.4
3377.8	52.5°	3562.7	4000.1	4342.9	4766.8	5474.8	5695.8	6173.8	6701.4	6669.9
2534.5	55°	2778.0	3201.9	3616.8	3982.1	4577.4	4906.6	5249.3	5790.5	5781.5
1984.3	57.5°	2101.5	2566.0	2958.4	3305.6	3779.1	4185.0	4460.1	4951.7	5014.8
1357.4	60°	1555.9	1912.1	2336.0	2723.9	3098.2	3517.6	3702.5	4185.0	4212.1
929.0	62.5°	1059.8	1452.1	1867.0	2218.8	2498.4	2931.3	3098.2	3495.0	3544.6
595.3	65°	735.1	987.6	1461.1	1713.7	2056.4	2426.2	2593.1	2908.8	3008.0
342.7	67.5°	487.0	703.5	1141.0	1371.0	1709.2	1961.7	2173.7	2430.7	2539.0
216.5	70°	266.1	518.6	816.3	1082.3	1375.5	1619.0	1826.4	2033.9	2128.6
99.2	72.5°	180.4	347.2	568.2	856.8	1109.4	1348.4	1533.3	1686.6	1691.1
58.6	75°	90.2	234.5	432.9	662.9	865.9	1100.4	1267.2	1357.4	1249.2
36.1	77.5°	54.1	171.4	351.8	532.1	703.5	888.4	983.1	1032.7	856.8
27.1	80°	31.6	121.8	275.1	423.9	487.0	653.9	744.1	757.6	572.7
18.0	82.5°	22.5	90.2	216.5	311.2	297.6	460.0	559.2	541.2	365.3
13.5	85°	13.5	63.1	135.3	193.9	180.4	302.2	324.7	333.7	212.0
9.0	87.5°	9.0	36.1	72.2	103.7	85.7	130.8	130.8	157.8	103.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24370.5
23766.2
23865.4
23576.8
23179.9
22692.9
22120.2
21434.7
20519.2
19630.8
18516.9
17524.8
16352.2
15224.8
13980.1
13006.0
11792.9
10724.1
9664.3
8640.6
7666.5
6737.5
5804.0
4987.7
4252.7
3553.7
2985.4
2525.4
2092.5
1650.6
1168.0
825.3
536.7
338.2
193.9
90.2
0.0

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