

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: P638195

Luminaire Tested: **IFLD-S-SA3D-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18337.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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



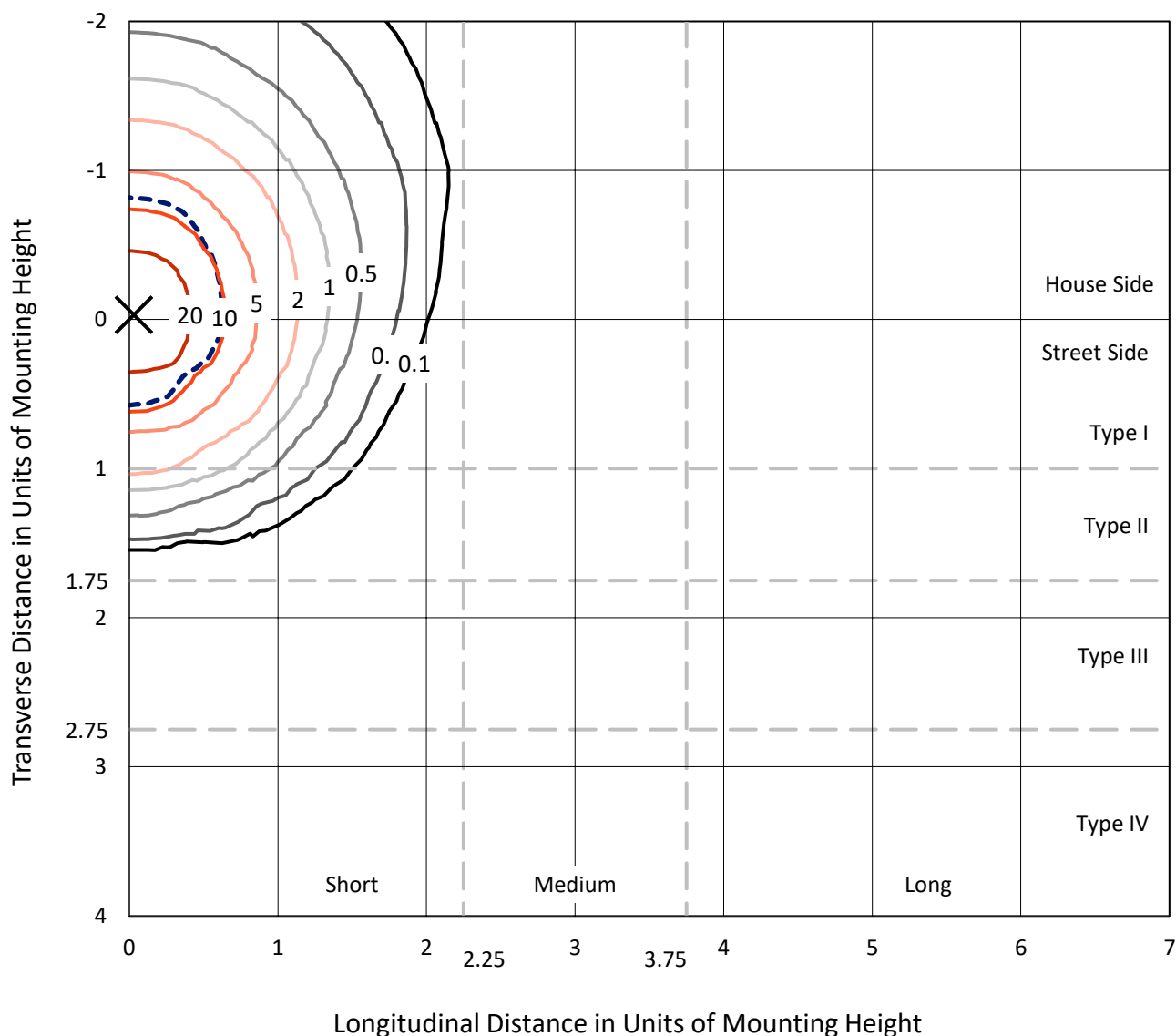
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

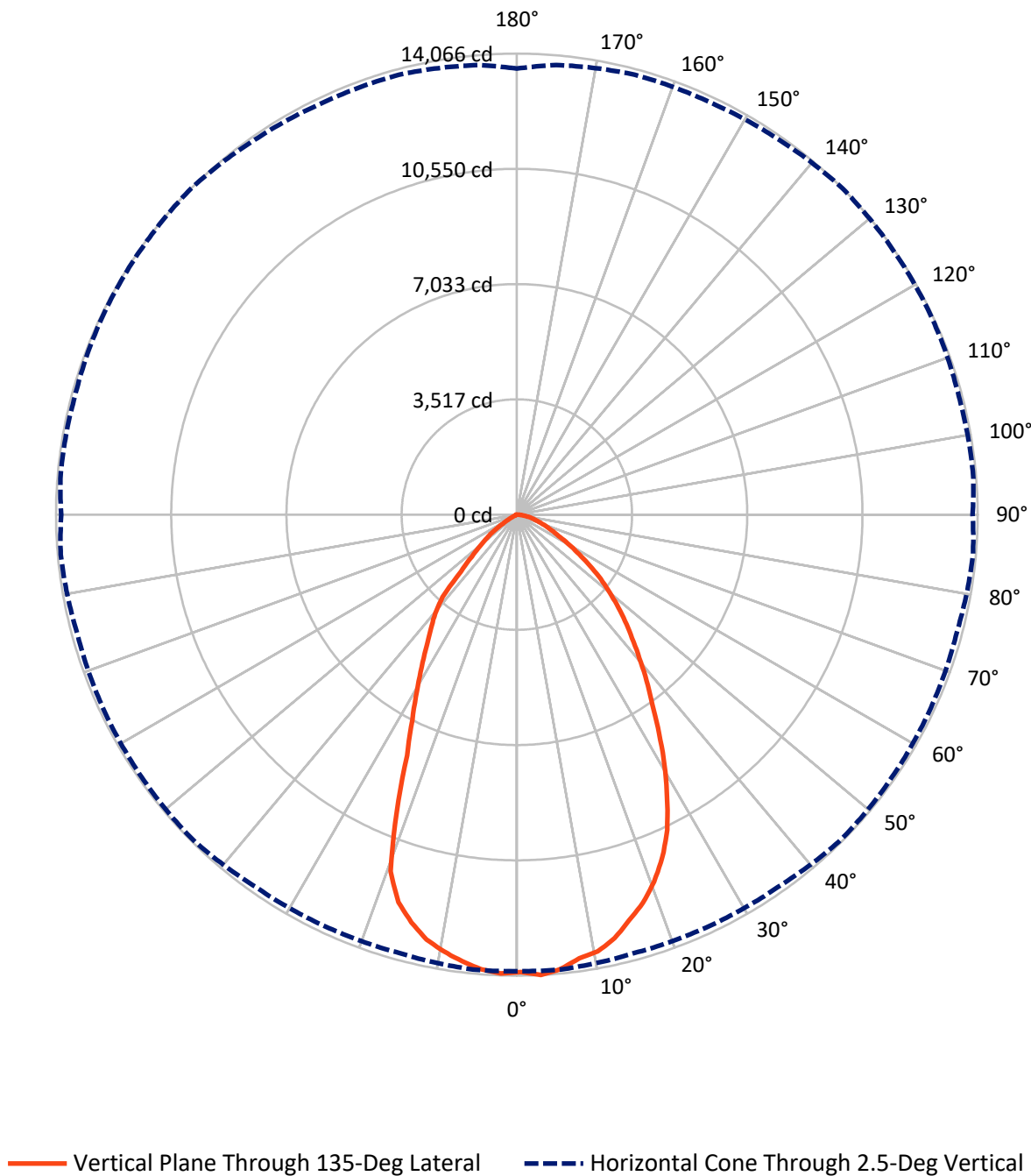


Based on 20 foot mounting height. Maximum calculated value = 34.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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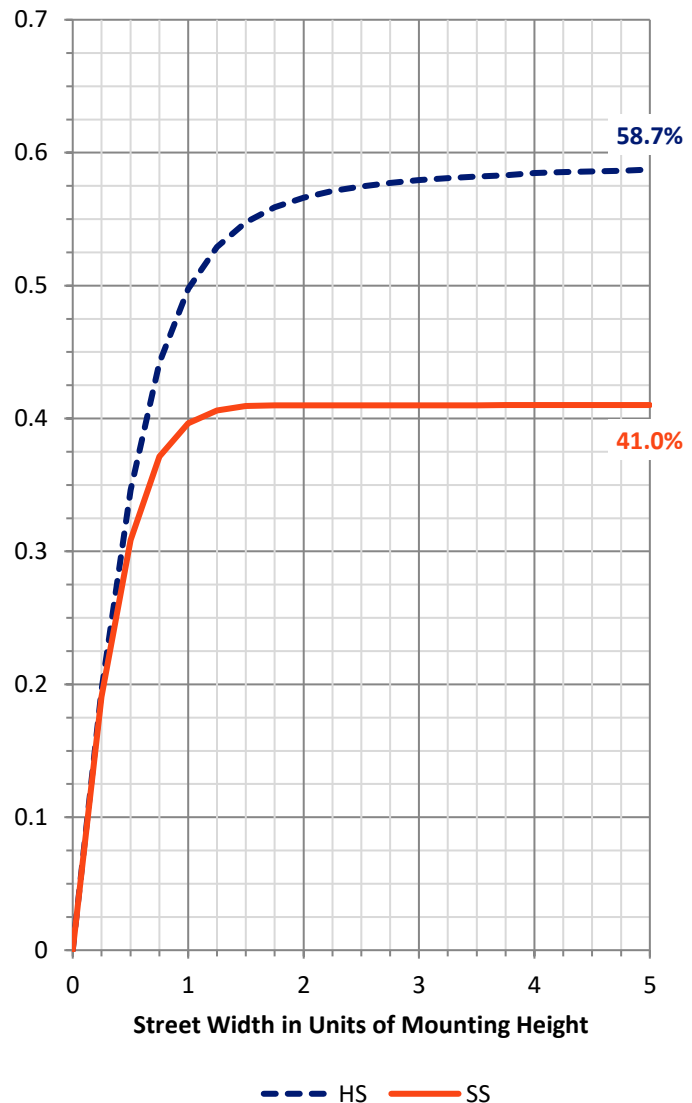
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10860.6	0.0	10860.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7477.3	0.0	7477.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	18337.9	0.0	18337.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1308.8	7.1
10°-20°	3509.5	19.1
20°-30°	4280.1	23.3
30°-40°	3907.7	21.3
40°-50°	2824.0	15.4
50°-60°	1541.9	8.4
60°-70°	637.5	3.5
70°-80°	258.2	1.4
80°-90°	70.2	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°	18337.9	100.0
0°-180°	18337.9	100.0

Coefficient of Utilization



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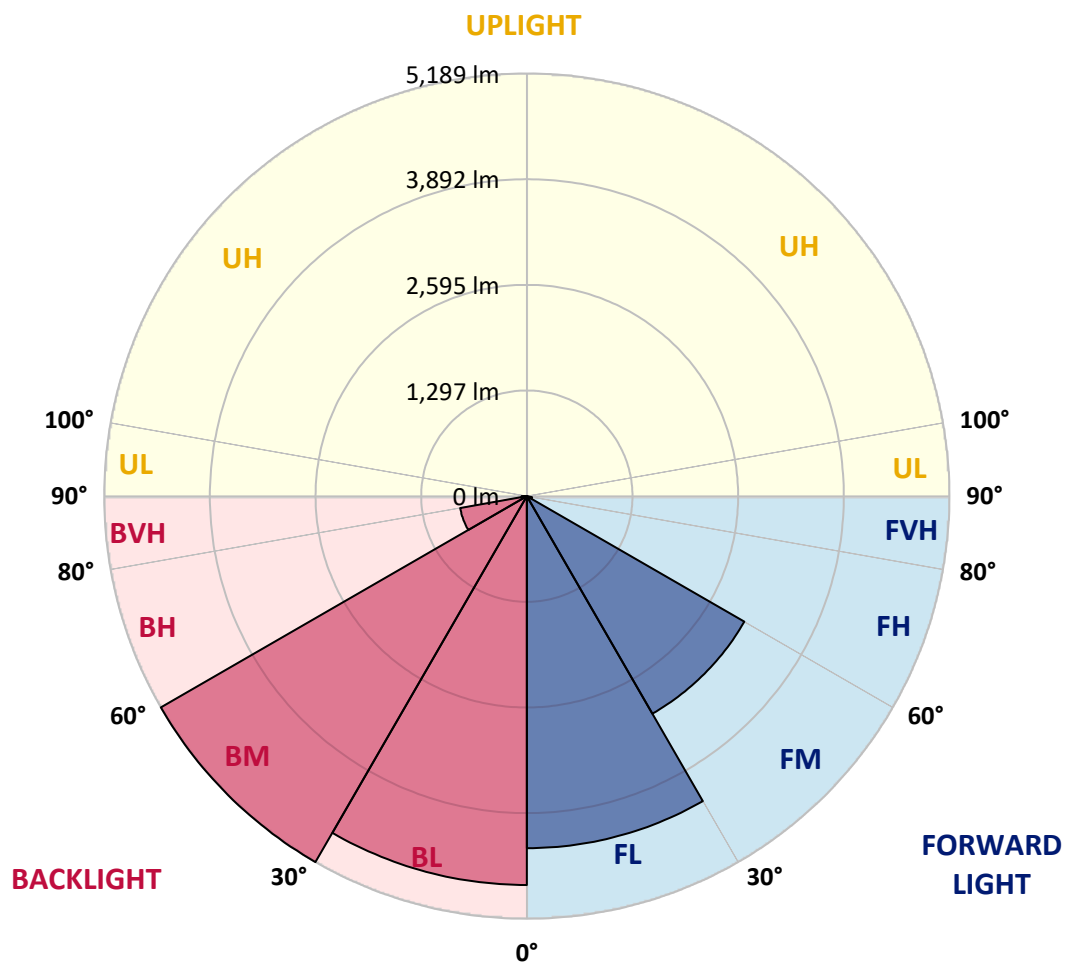
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4322.9	23.6			
FM	(30°-60°)	3084.1	16.8			
FH	(60°-80°)	64.6	0.4			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	4775.5	26.0	B4/5000		
BM	(30°-60°)	5189.5	28.3	B4/8500		
BH	(60°-80°)	831.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	64.6	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°	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1
2.5°	13929.3	13947.4	13849.2	13859.6	13877.6	14009.3	13975.8	13944.8	13900.9	13975.8
5°	13911.2	13921.5	13818.2	13782.1	13797.6	13916.4	13807.9	13807.9	13797.6	13784.7
7.5°	13771.8	13776.9	13696.9	13632.3	13673.6	13727.9	13647.8	13686.5	13629.7	13673.6
10°	13562.6	13529.0	13433.5	13415.4	13461.9	13513.5	13459.3	13495.4	13443.8	13477.4
12.5°	13255.3	13203.6	13126.2	13102.9	13183.0	13252.7	13208.8	13188.1	13121.0	13203.6
15°	12070.0	12031.2	12206.8	12514.1	12790.5	12849.9	12803.4	12824.0	12684.6	12707.8
17.5°	9934.4	9862.1	10050.6	10778.8	11816.9	12364.4	12323.0	12188.8	11982.2	12028.7
20°	9027.9	9007.3	8986.6	9159.6	9885.3	11545.8	11602.6	11261.7	10967.3	10902.7
22.5°	8516.6	8508.9	8488.2	8527.0	8718.1	9784.6	10435.3	10120.3	9924.0	9906.0
25°	8049.2	8036.3	7974.3	8023.4	8023.4	8085.4	8919.5	9110.6	8937.6	8916.9
27.5°	7574.1	7550.8	7540.5	7563.7	7445.0	7026.6	7238.4	8170.6	8080.2	8085.4
30°	7060.2	7052.4	7024.0	7073.1	6706.4	6187.3	6053.1	7318.4	7336.5	7331.3
32.5°	6295.8	6329.4	6458.5	6512.7	5908.5	5479.8	5255.1	6332.0	6701.2	6693.5
35°	4573.4	4573.4	4994.3	5776.8	5177.6	4854.8	4733.5	5368.7	6073.7	6099.5
37.5°	3759.9	3772.8	3855.5	4211.8	4467.5	4353.9	4317.7	4519.1	5268.0	5309.3
40°	3382.9	3382.9	3382.9	3235.7	3228.0	3922.6	3902.0	3837.4	4550.1	4640.5
42.5°	3039.4	3047.2	3052.4	2680.5	2473.9	3390.6	3344.2	3246.0	3907.1	4013.0
45°	2685.7	2698.6	2714.1	2241.5	2151.1	2440.3	2830.3	2721.8	3271.9	3408.7
47.5°	1639.8	1660.5	2011.7	1900.6	1911.0	1882.5	2308.6	2290.6	2683.1	2876.8
50°	1107.8	1115.6	1149.2	1206.0	1639.8	1479.7	1634.6	1895.5	2037.5	2331.9
52.5°	929.7	942.6	859.9	782.5	1076.8	1156.9	1141.4	1407.4	1464.2	1828.3
55°	653.3	694.7	655.9	648.2	612.0	898.7	865.1	1082.0	1118.2	1389.3
57.5°	67.1	77.5	134.3	482.9	400.3	508.7	617.2	792.8	828.9	1025.2
60°	5.2	5.2	12.9	67.1	291.8	304.7	426.1	488.1	557.8	715.3
62.5°	0.0	2.6	5.2	10.3	46.5	162.7	214.3	255.7	335.7	462.2
65°	0.0	0.0	2.6	7.7	10.3	62.0	82.6	134.3	183.3	286.6
67.5°	0.0	0.0	2.6	5.2	7.7	15.5	28.4	49.1	98.1	162.7
70°	0.0	0.0	2.6	5.2	7.7	12.9	20.7	31.0	43.9	87.8
72.5°	0.0	0.0	2.6	2.6	5.2	12.9	15.5	20.7	31.0	43.9
75°	0.0	0.0	2.6	2.6	7.7	15.5	12.9	15.5	20.7	28.4
77.5°	0.0	0.0	2.6	5.2	7.7	15.5	12.9	15.5	15.5	18.1
80°	0.0	0.0	2.6	5.2	10.3	18.1	15.5	15.5	12.9	12.9
82.5°	0.0	0.0	2.6	7.7	10.3	23.2	23.2	20.7	10.3	7.7
85°	0.0	0.0	5.2	10.3	15.5	25.8	25.8	20.7	7.7	5.2
87.5°	0.0	0.0	5.2	7.7	12.9	18.1	25.8	20.7	7.7	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°
13955.1	0°	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1	13955.1
13911.2	2.5°	13980.9	13965.4	14017.1	14037.7	14066.1	13957.7	13890.5	13893.1	13769.2
13753.7	5°	13836.3	13838.9	13906.0	13900.9	13929.3	13869.9	13844.1	13800.2	13691.7
13554.8	7.5°	13653.0	13629.7	13694.3	13743.3	13671.0	13712.4	13653.0	13673.6	13609.1
13379.2	10°	13510.9	13456.7	13516.1	13549.7	13552.3	13510.9	13454.1	13399.9	13376.7
13105.5	12.5°	13195.9	13126.2	13226.9	13273.4	13265.6	13185.6	13121.0	13133.9	13059.0
12625.2	15°	12762.0	12764.6	12836.9	12880.8	12839.5	12821.4	12826.6	12795.6	12731.1
11961.5	17.5°	12098.4	12137.1	12328.2	12434.1	12457.3	12421.2	12403.1	12366.9	12302.4
10902.7	20°	10993.1	11225.5	11566.4	11894.4	11958.9	11948.6	11884.0	11868.6	11832.4
9854.3	22.5°	10022.2	10195.2	10590.3	11101.6	11365.0	11390.8	11313.3	11290.1	11251.4
8916.9	25°	9017.6	9203.6	9559.9	10115.1	10660.0	10771.0	10758.1	10688.4	10647.1
8085.4	27.5°	8170.6	8356.5	8679.3	9180.3	9763.9	10120.3	10153.9	10042.8	10040.2
7344.2	30°	7406.2	7661.9	7907.2	8315.2	8880.8	9415.3	9472.1	9394.6	9402.4
6665.1	32.5°	6807.1	7018.9	7228.0	7501.8	7971.8	8594.1	8816.2	8743.9	8715.5
6099.5	35°	6195.1	6339.7	6554.0	6804.5	7124.7	7741.9	8126.7	8072.5	8044.1
5335.2	37.5°	5497.9	5745.8	5900.7	6182.2	6432.7	6923.3	7465.6	7457.9	7398.5
4684.4	40°	4782.5	5043.4	5278.4	5562.4	5756.1	6146.0	6747.7	6745.1	6752.9
4010.4	42.5°	4134.4	4374.5	4658.6	4968.5	5154.4	5438.5	6084.1	6120.2	6164.1
3455.2	45°	3548.2	3765.1	4028.5	4405.5	4630.2	4792.9	5366.2	5531.4	5528.8
2959.4	47.5°	3021.4	3225.4	3447.5	3814.2	4100.8	4248.0	4723.1	4958.1	4942.6
2427.4	50°	2535.9	2716.6	2949.1	3215.0	3599.8	3728.9	4082.7	4392.6	4369.4
1934.2	52.5°	2040.1	2290.6	2486.8	2729.6	3135.0	3261.5	3535.3	3837.4	3819.3
1451.3	55°	1590.7	1833.5	2071.1	2280.2	2621.1	2809.6	3005.9	3315.8	3310.6
1136.2	57.5°	1203.4	1469.4	1694.0	1892.9	2164.0	2396.4	2554.0	2835.4	2871.6
777.3	60°	890.9	1094.9	1337.7	1559.7	1774.1	2014.2	2120.1	2396.4	2411.9
532.0	62.5°	606.9	831.5	1069.1	1270.5	1430.6	1678.5	1774.1	2001.3	2029.7
340.9	65°	420.9	565.5	836.7	981.3	1177.6	1389.3	1484.9	1665.6	1722.4
196.3	67.5°	278.9	402.8	653.3	785.0	978.7	1123.3	1244.7	1391.9	1453.9
124.0	70°	152.4	297.0	467.4	619.8	787.6	927.1	1045.9	1164.6	1218.9
56.8	72.5°	103.3	198.8	325.4	490.6	635.3	772.1	878.0	965.8	968.4
33.6	75°	51.6	134.3	247.9	379.6	495.8	630.1	725.6	777.3	715.3
20.7	77.5°	31.0	98.1	201.4	304.7	402.8	508.7	563.0	591.4	490.6
15.5	80°	18.1	69.7	157.5	242.7	278.9	374.4	426.1	433.8	328.0
10.3	82.5°	12.9	51.6	124.0	178.2	170.4	263.4	320.2	309.9	209.2
7.7	85°	7.7	36.2	77.5	111.0	103.3	173.0	185.9	191.1	121.4
5.2	87.5°	5.2	20.7	41.3	59.4	49.1	74.9	74.9	90.4	59.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13955.1
13609.1
13665.9
13500.6
13273.4
12994.5
12666.5
12274.0
11749.8
11241.0
10603.2
10035.1
9363.7
8718.1
8005.3
7447.5
6752.9
6140.9
5534.0
4947.8
4390.0
3858.1
3323.5
2856.1
2435.2
2034.9
1709.5
1446.1
1198.2
945.1
668.8
472.6
307.3
193.7
111.0
51.6
0.0

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