

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: P477445

Luminaire Tested: **IFLD-L-SA8A-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

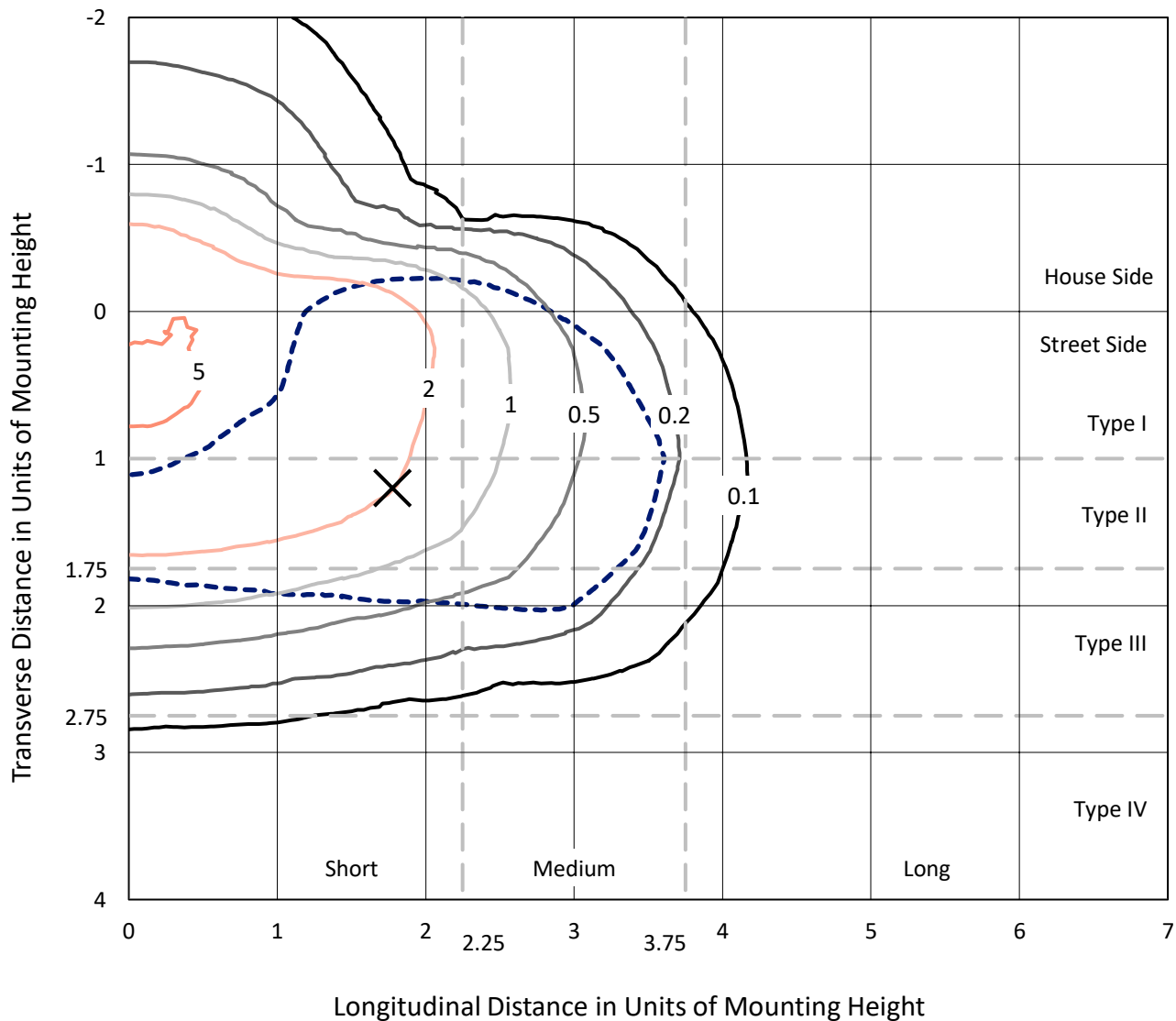
Lumens per Lamp: N/A
Luminaire Lumens: 35689.7 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

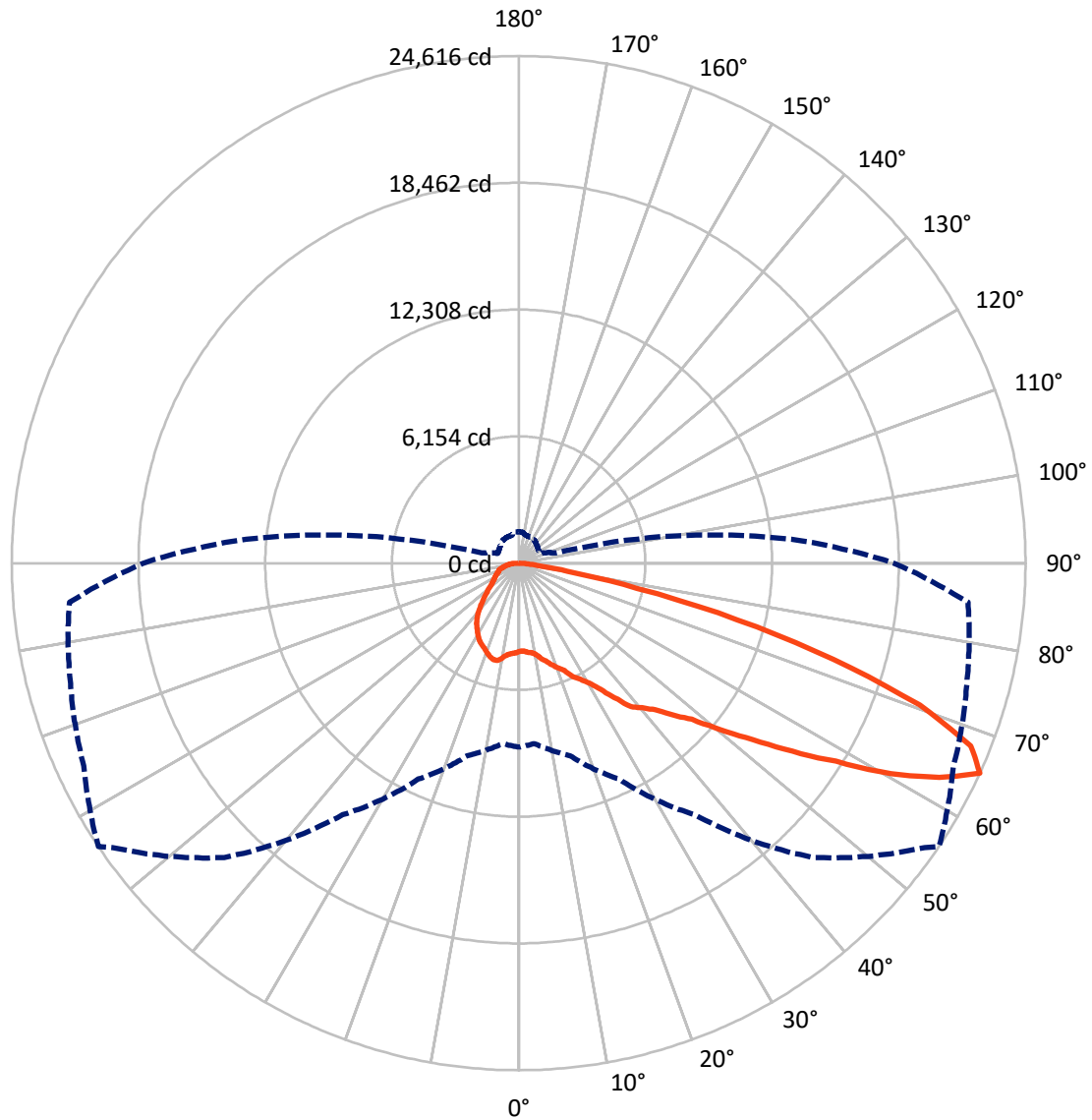
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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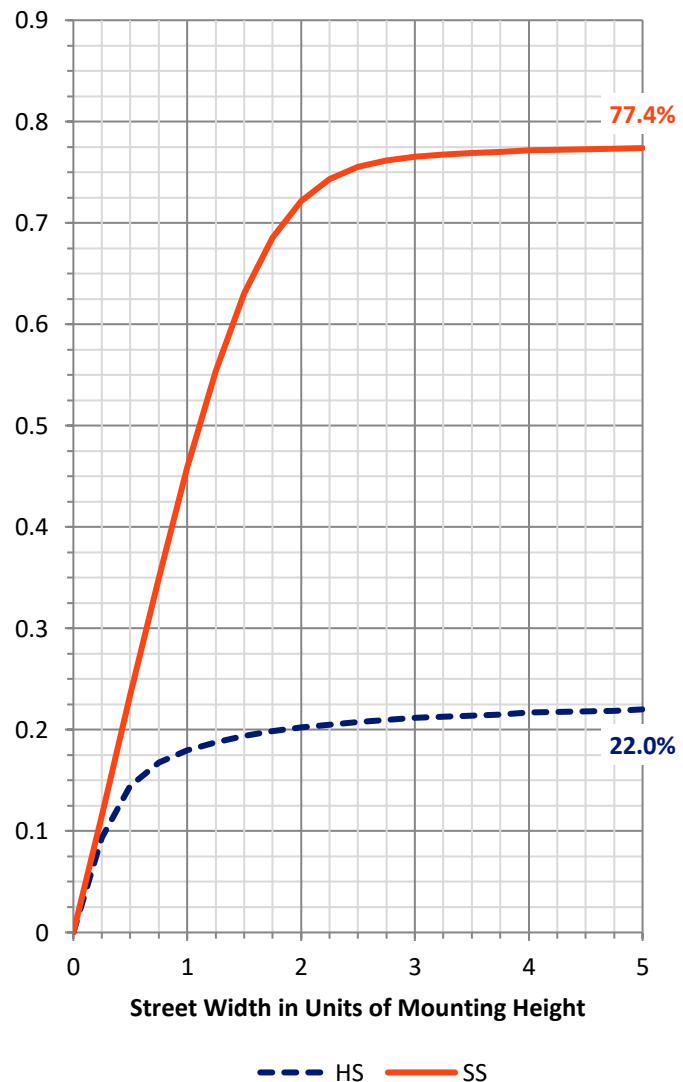
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8004.0	0.0	8004.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27685.6	0.0	27685.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	35689.7	0.0	35689.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	1.2
10°-20°	1378.4	3.9
20°-30°	2454.4	6.9
30°-40°	3675.4	10.3
40°-50°	5445.5	15.3
50°-60°	8390.8	23.5
60°-70°	9499.4	26.6
70°-80°	3942.3	11.0
80°-90°	478.9	1.3
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°	35689.7	100.0
0°-180°	35689.7	100.0

Coefficient of Utilization

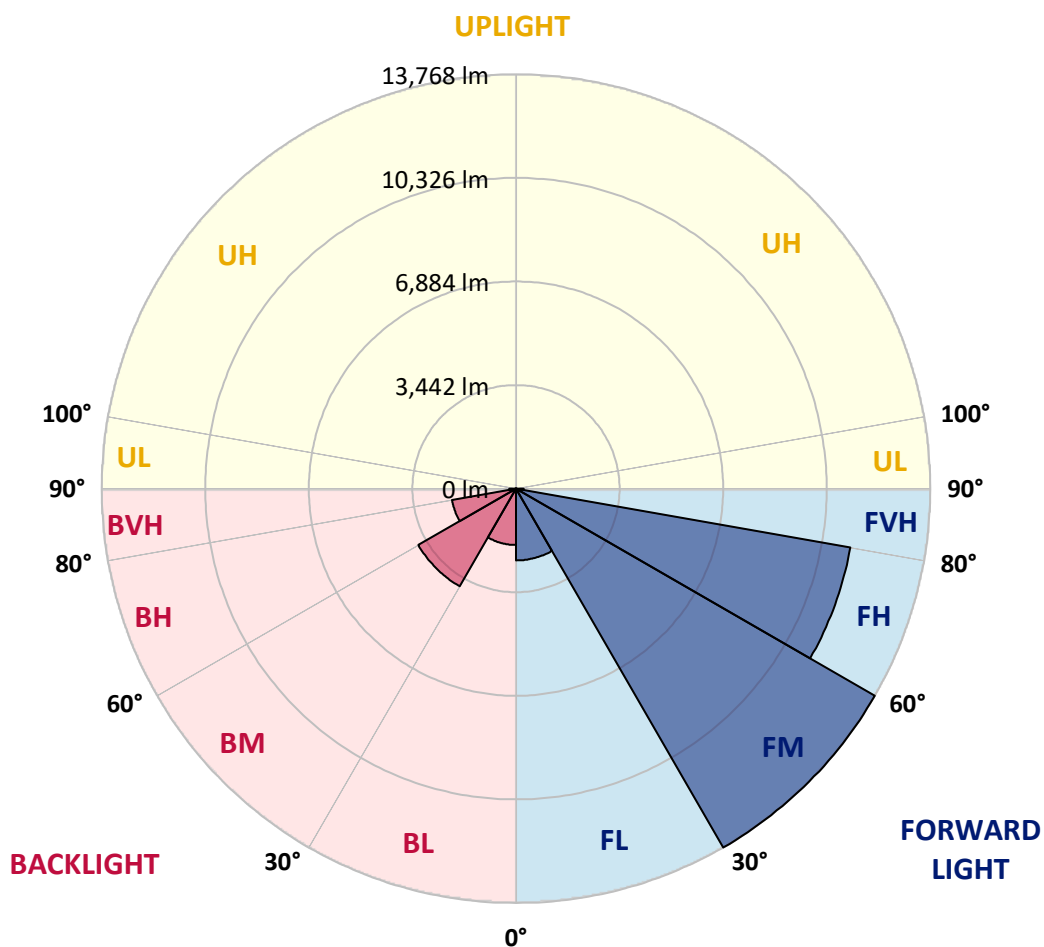


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.1	6.7			
FM (30°-60°)	13767.5	38.6			
FH (60°-80°)	11280.4	31.6			G4/12000
FVH (80°-90°)	252.6	0.7			G3/500
BL (0°-30°)	1872.2	5.2	B3/2500		
BM (30°-60°)	3744.1	10.5	B3/5000		
BH (60°-80°)	2161.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	226.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8
2.5°	4171.7	4194.1	4179.2	4224.0	4261.4	4261.4	4291.2	4268.8	4298.7	4339.8
5°	4309.9	4220.3	4268.8	4291.2	4280.0	4298.7	4268.8	4343.5	4295.0	4373.4
7.5°	4343.5	4377.1	4418.2	4380.9	4414.5	4395.8	4399.6	4388.4	4362.2	4425.7
10°	4590.0	4541.5	4634.8	4578.8	4571.4	4563.9	4548.9	4492.9	4556.4	4560.2
12.5°	4873.9	4829.1	4825.3	4780.5	4840.3	4732.0	4754.4	4724.5	4735.7	4750.6
15°	5079.3	5060.6	5146.5	5094.2	5015.8	4967.2	5019.5	4937.4	4978.4	4971.0
17.5°	5486.4	5482.6	5419.1	5333.2	5288.4	5217.5	5206.3	5172.7	5202.5	5187.6
20°	5770.2	5811.3	5822.5	5721.7	5549.9	5471.4	5452.8	5426.6	5460.2	5449.0
22.5°	6203.5	6140.0	6188.5	6013.0	5949.5	5762.7	5695.5	5658.2	5818.8	5777.7
25°	6479.8	6547.0	6498.5	6438.7	6296.8	6065.3	6016.7	6098.9	6162.4	6117.6
27.5°	7103.5	7036.3	6991.5	6812.2	6718.8	6476.1	6420.1	6390.2	6405.1	6431.3
30°	7577.8	7615.2	7514.4	7387.4	7152.1	6905.6	6774.9	6748.7	6696.4	6651.6
32.5°	8253.8	8197.8	8138.1	8055.9	7854.2	7529.3	7402.3	7305.2	7148.3	6939.2
35°	8578.8	8739.4	8694.5	8474.2	8321.1	8197.8	8160.5	8011.1	7880.4	7551.7
37.5°	9120.3	9187.5	9124.0	9053.1	8982.1	8851.4	8806.6	8847.7	8590.0	8048.4
40°	9471.4	9613.3	9744.0	9546.1	9531.1	9557.3	9280.9	9232.3	8702.0	8418.2
42.5°	10188.4	10248.2	10274.3	10266.9	10352.8	10352.8	9826.2	9721.6	9344.4	9112.8
45°	11137.1	11185.6	11279.0	11346.2	11249.1	11297.7	10547.0	10505.9	10169.8	10125.0
47.5°	11958.7	12074.5	12283.7	12481.6	12608.6	12444.2	11622.6	11331.3	11245.4	11514.3
50°	12675.8	12537.6	13026.9	13228.5	13785.0	14057.7	12810.3	12694.5	12556.3	13071.7
52.5°	12746.8	12933.5	13624.4	14027.8	15174.4	15678.6	14266.8	14218.3	14050.2	14644.0
55°	13254.7	13232.3	13927.0	14800.9	16164.1	17011.9	16164.1	16134.2	15768.2	16332.1
57.5°	13168.8	13396.6	13945.6	15166.9	17056.7	18442.3	18363.9	18158.4	17646.8	18106.2
60°	12877.5	12937.2	13605.8	15155.7	17575.8	19910.0	20739.2	20780.3	19734.5	20100.5
62.5°	11226.7	11364.9	12212.7	13964.3	17206.1	20922.2	23058.5	22912.8	22076.2	21657.9
65°	8929.8	8791.6	9673.0	11566.6	14905.5	20205.1	24074.3	24615.9	23301.2	22535.6
67.5°	5475.2	5441.6	6289.3	7958.8	11152.0	17194.9	23263.9	23685.9	22961.4	22348.9
70°	2819.8	2733.9	3264.2	4440.6	7010.2	12616.0	20246.2	20660.7	21351.7	20044.5
72.5°	1314.6	1296.0	1579.8	2184.8	3570.4	7417.2	15678.6	15977.3	17433.9	16899.8
75°	773.1	784.3	944.9	1142.8	1740.4	3495.7	10405.1	10984.0	12563.8	12179.1
77.5°	578.9	578.9	672.3	795.5	1015.9	1352.0	5135.3	5900.9	7346.3	6606.8
80°	425.8	433.2	515.4	597.6	705.9	698.4	2039.2	2390.3	3368.8	2879.5
82.5°	332.4	343.6	399.6	444.4	496.7	422.0	836.6	900.1	1385.6	1101.8
85°	231.6	239.0	313.7	302.5	302.5	235.3	347.3	366.0	549.0	522.9
87.5°	56.0	63.5	153.1	168.1	127.0	71.0	108.3	123.2	197.9	227.8
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4283.8	0°	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8
4358.5	2.5°	4302.5	4317.4	4380.9	4347.3	4365.9	4287.5	4351.0	4298.7	4343.5	4321.1
4392.1	5°	4422.0	4388.4	4425.7	4399.6	4399.6	4429.4	4474.3	4440.6	4507.9	4478.0
4418.2	7.5°	4470.5	4474.3	4496.7	4500.4	4481.7	4575.1	4578.8	4567.6	4631.1	4616.2
4597.5	10°	4590.0	4593.8	4634.8	4657.3	4638.6	4672.2	4634.8	4605.0	4601.2	4586.3
4739.4	12.5°	4780.5	4817.9	4810.4	4829.1	4832.8	4690.9	4605.0	4459.3	4440.6	4459.3
4948.6	15°	4956.0	4941.1	4948.6	4985.9	4829.1	4601.2	4448.1	4324.9	4332.3	4336.1
5221.2	17.5°	5165.2	5176.4	5187.6	5015.8	4728.2	4459.3	4324.9	4324.9	4287.5	4302.5
5411.7	20°	5404.2	5359.4	5262.3	5019.5	4552.7	4295.0	4253.9	4253.9	4209.1	4179.2
5617.1	22.5°	5590.9	5501.3	5355.7	4903.8	4395.8	4231.5	4130.7	4059.7	4007.4	3947.7
5844.9	25°	5710.5	5661.9	5378.1	4784.2	4280.0	4063.4	3914.0	3805.7	3738.5	3660.1
6024.2	27.5°	5893.5	5800.1	5441.6	4646.1	4153.1	3895.4	3663.8	3495.7	3368.8	3286.6
6296.8	30°	6140.0	6005.5	5396.7	4448.1	3958.9	3604.1	3331.4	3114.8	2969.1	2901.9
6554.5	32.5°	6341.6	6166.1	5359.4	4268.8	3742.2	3309.0	2946.7	2726.4	2644.2	2558.3
6987.8	35°	6726.3	6379.0	5333.2	4168.0	3548.0	3014.0	2633.0	2442.5	2338.0	2211.0
7245.5	37.5°	7021.4	6748.7	5269.8	3958.9	3297.8	2726.4	2394.0	2222.2	2065.3	1930.9
7843.0	40°	7484.5	7264.1	5273.5	3663.8	3002.8	2479.9	2207.2	2028.0	1830.0	1714.3
8728.2	42.5°	8354.7	7772.1	5295.9	3428.5	2670.4	2278.2	2039.2	1826.3	1628.4	1531.3
9736.5	45°	9422.8	8470.5	5157.7	3215.6	2330.5	2087.7	1837.5	1624.6	1497.6	1426.7
11107.2	47.5°	10651.6	9153.9	4971.0	2816.0	2046.7	1886.1	1650.8	1527.5	1434.2	1393.1
12873.7	50°	12026.0	10132.4	4918.7	2450.0	1826.3	1714.3	1561.1	1467.8	1404.3	1355.7
14864.4	52.5°	13796.2	11271.5	4814.1	2072.8	1635.8	1576.1	1527.5	1464.0	1408.0	1366.9
16720.6	55°	15488.1	12533.9	4702.1	1762.8	1501.4	1508.8	1535.0	1479.0	1430.4	1366.9
18800.8	57.5°	17392.8	13822.4	4287.5	1535.0	1400.5	1475.2	1527.5	1464.0	1415.5	1366.9
20929.6	60°	18569.3	14546.9	3477.1	1337.0	1310.9	1411.7	1482.7	1415.5	1363.2	1381.9
21908.2	62.5°	19047.3	14166.0	2621.8	1213.8	1247.4	1325.8	1411.7	1385.6	1348.3	1419.2
21896.9	65°	18233.1	13288.3	1874.9	1109.2	1161.5	1239.9	1348.3	1378.1	1389.3	1527.5
20111.7	67.5°	16223.8	11570.3	1378.1	1023.3	1071.9	1187.7	1393.1	1441.6	1434.2	1606.0
16877.4	70°	12982.1	9049.3	1075.6	952.4	1038.3	1228.7	1456.6	1456.6	1404.3	1606.0
12873.7	72.5°	9445.2	6379.0	926.2	870.2	952.4	1127.9	1449.1	1445.4	1378.1	1467.8
8197.8	75°	5717.9	3712.4	817.9	788.0	817.9	967.3	1385.6	1363.2	1269.8	1262.4
3943.9	77.5°	2849.6	1867.4	668.5	698.4	713.3	810.4	1217.5	1251.1	1124.2	1094.3
1557.4	80°	1202.6	814.2	556.5	601.3	601.3	683.5	1012.1	1034.5	933.7	877.7
616.2	82.5°	549.0	466.8	474.3	522.9	489.3	530.3	803.0	829.1	758.2	664.8
261.4	85°	231.6	265.2	362.3	410.8	362.3	343.6	552.7	582.6	493.0	410.8
112.0	87.5°	104.6	145.7	227.8	298.8	183.0	160.6	295.0	306.3	246.5	183.0
0.0	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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180°
4283.8
4280.0
4436.9
4593.8
4586.3
4466.8
4388.4
4306.2
4134.4
3914.0
3675.0
3323.9
2939.3
2554.6
2199.8
1934.6
1725.5
1538.7
1441.6
1385.6
1363.2
1363.2
1363.2
1363.2
1366.9
1400.5
1527.5
1617.2
1572.3
1415.5
1247.4
1075.6
859.0
649.8
414.6
171.8
0.0

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