

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: P477368

Luminaire Tested: **IFLD-L-SA8B-735-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477368
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

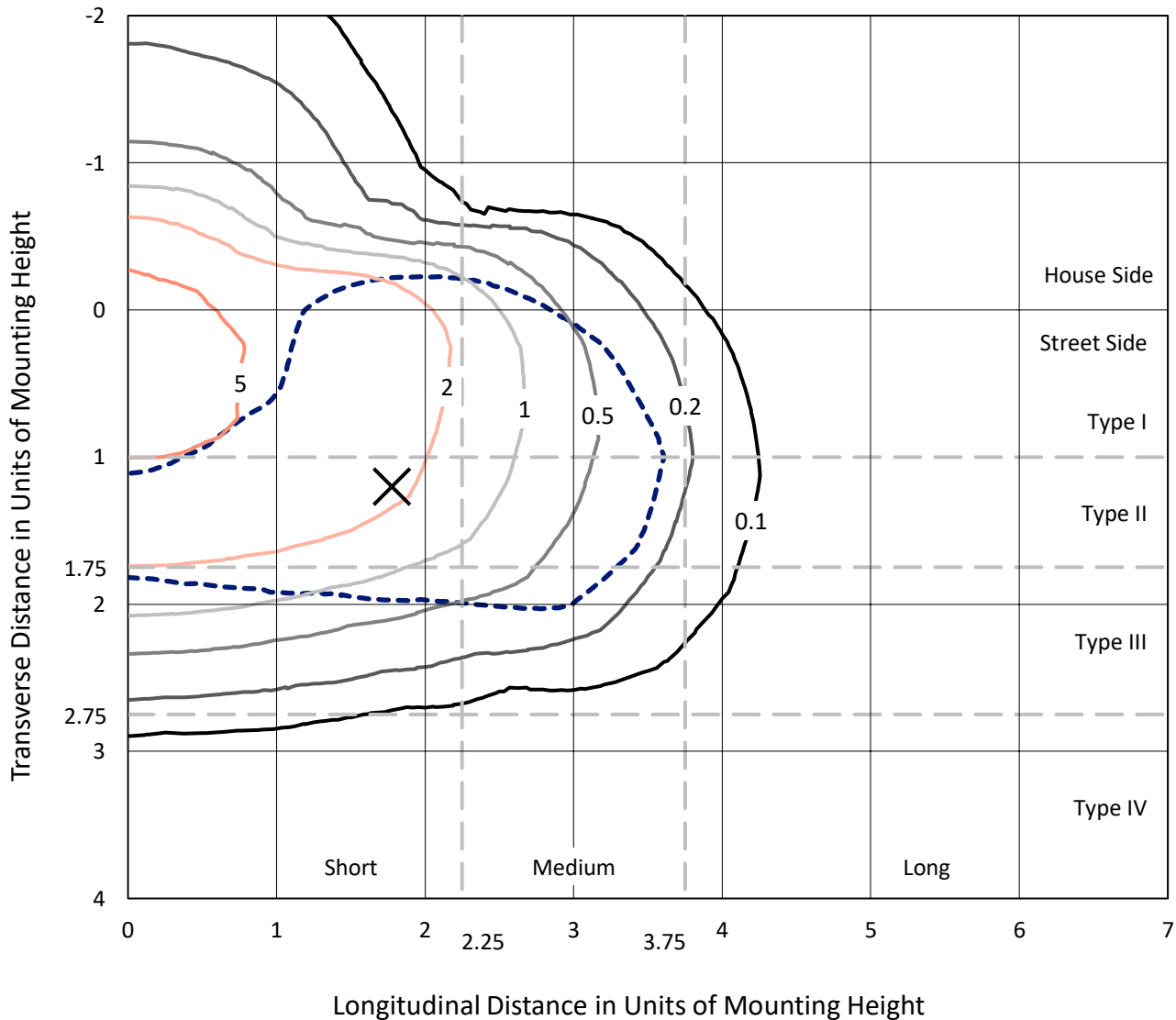
Lumens per Lamp: N/A
Luminaire Lumens: 40884.5 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

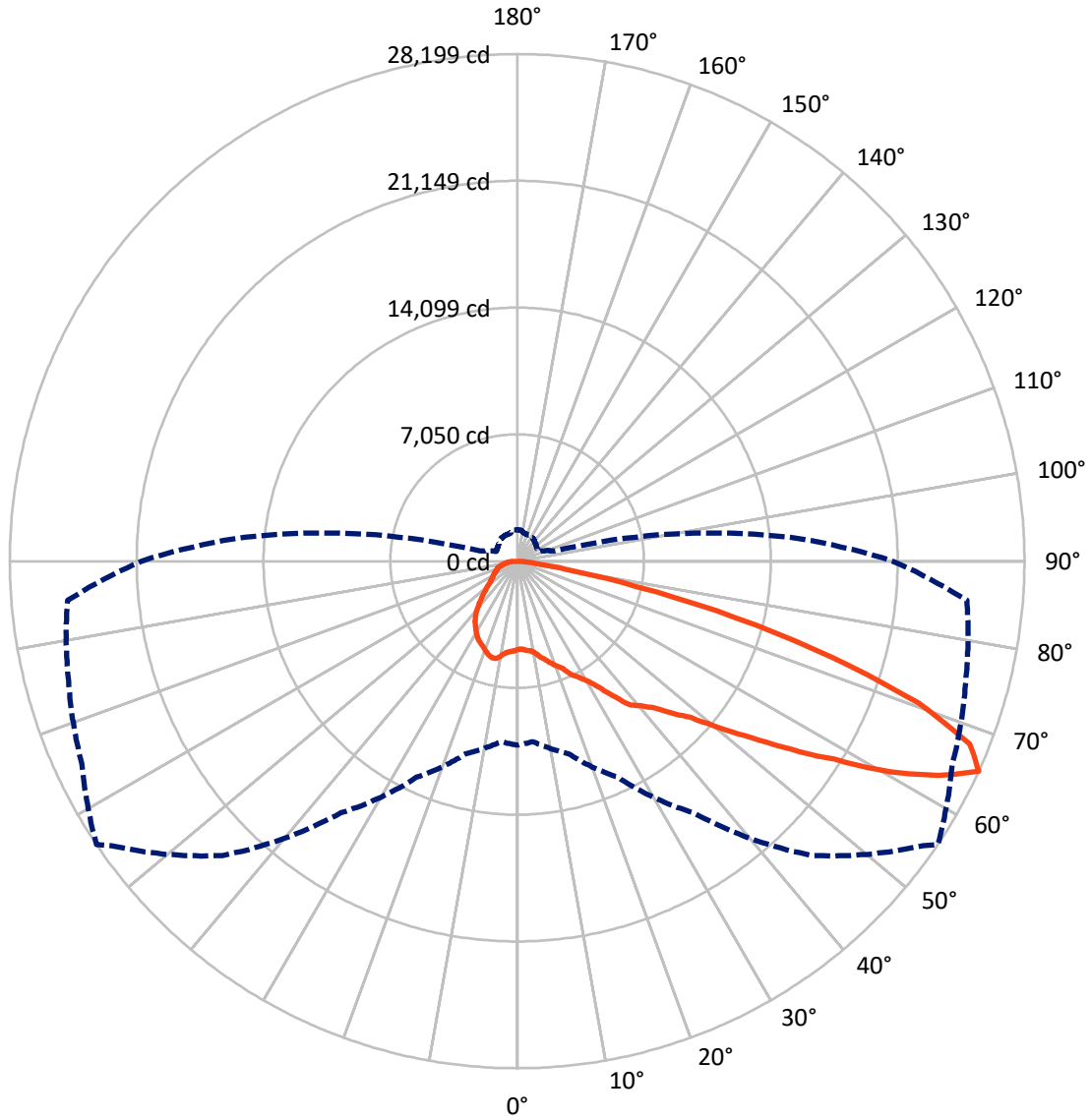
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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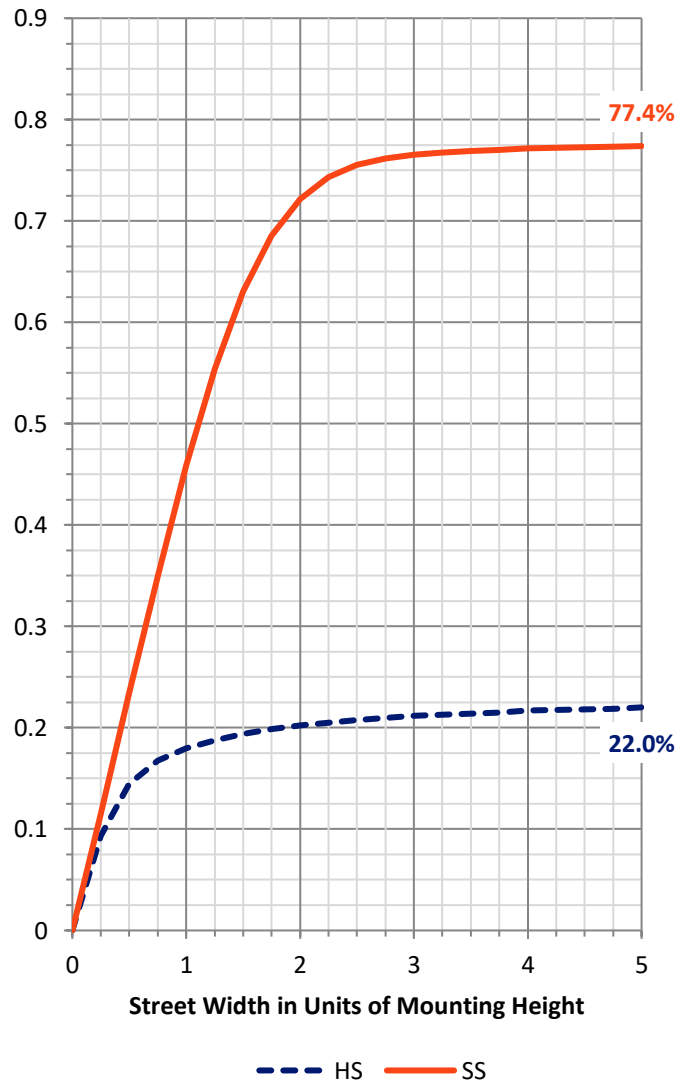
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9169.1	0.0	9169.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	31715.5	0.0	31715.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	40884.5	0.0	40884.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	1.2
10°-20°	1579.1	3.9
20°-30°	2811.6	6.9
30°-40°	4210.3	10.3
40°-50°	6238.1	15.3
50°-60°	9612.1	23.5
60°-70°	10882.1	26.6
70°-80°	4516.2	11.0
80°-90°	548.7	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°	40884.5	100.0
0°-180°	40884.5	100.0

Coefficient of Utilization

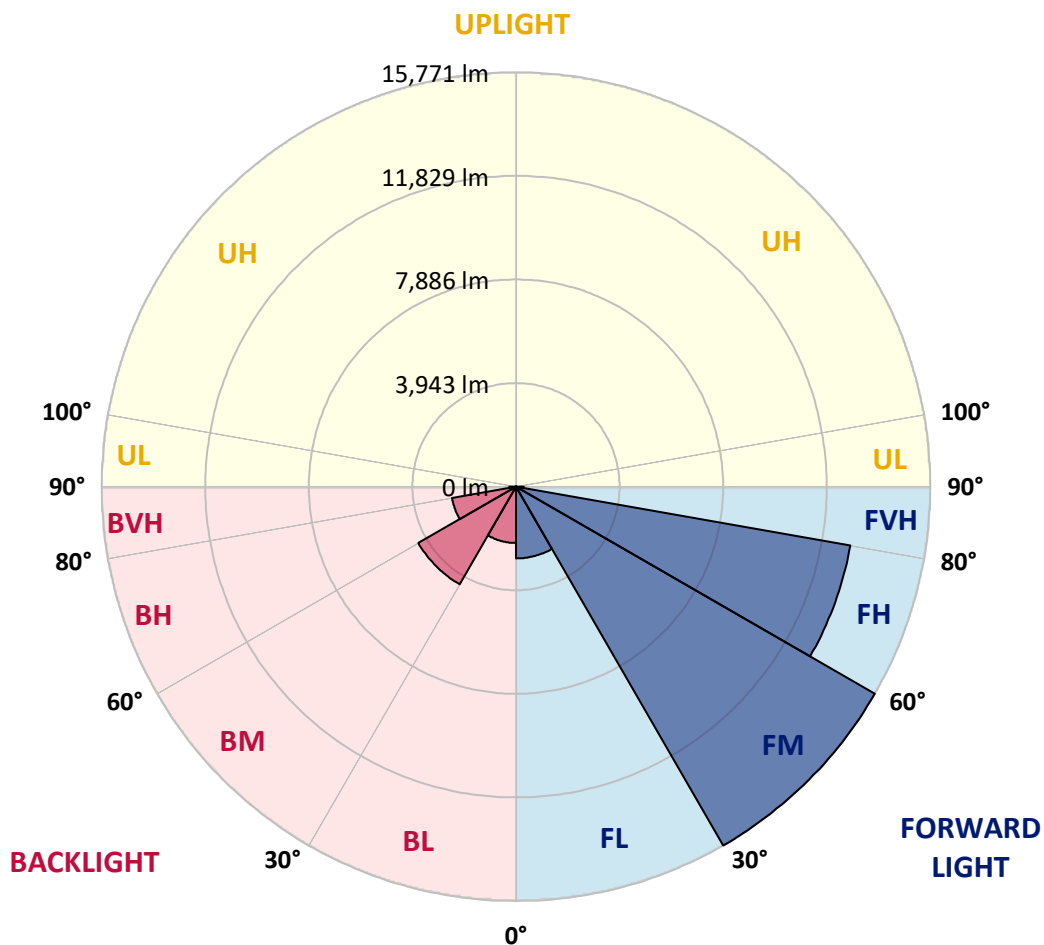


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.3	6.7			
FM (30°-60°)	15771.5	38.6			
FH (60°-80°)	12922.3	31.6			G5
FVH (80°-90°)	289.4	0.7			G3/500
BL (0°-30°)	2144.7	5.2	B3/2500		
BM (30°-60°)	4289.1	10.5	B3/5000		
BH (60°-80°)	2476.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	259.3	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3
2.5°	4779.0	4804.6	4787.5	4838.9	4881.6	4881.6	4915.9	4890.2	4924.4	4971.5
5°	4937.3	4834.6	4890.2	4915.9	4903.0	4924.4	4890.2	4975.8	4920.1	5010.0
7.5°	4975.8	5014.3	5061.3	5018.5	5057.1	5035.7	5039.9	5027.1	4997.2	5069.9
10°	5258.1	5202.5	5309.5	5245.3	5236.7	5228.2	5211.1	5146.9	5219.6	5223.9
12.5°	5583.3	5532.0	5527.7	5476.3	5544.8	5420.7	5446.4	5412.2	5425.0	5442.1
15°	5818.6	5797.2	5895.6	5835.7	5745.9	5690.3	5750.2	5656.0	5703.1	5694.5
17.5°	6285.0	6280.7	6207.9	6109.5	6058.2	5976.9	5964.1	5925.6	5959.8	5942.7
20°	6610.1	6657.2	6670.0	6554.5	6357.7	6267.8	6246.4	6216.5	6255.0	6242.2
22.5°	7106.4	7033.7	7089.3	6888.2	6815.5	6601.6	6524.5	6481.8	6665.7	6618.7
25°	7423.0	7500.0	7444.4	7375.9	7213.4	6948.1	6892.5	6986.6	7059.3	7008.0
27.5°	8137.5	8060.5	8009.1	7803.8	7696.8	7418.7	7354.5	7320.3	7337.4	7367.4
30°	8680.9	8723.6	8608.1	8462.7	8193.1	7910.7	7761.0	7731.0	7671.2	7619.8
32.5°	9455.2	9391.1	9322.6	9228.5	8997.5	8625.2	8479.8	8368.5	8188.8	7949.2
35°	9827.5	10011.4	9960.1	9707.7	9532.2	9391.1	9348.3	9177.1	9027.4	8650.9
37.5°	10447.8	10524.8	10452.1	10370.8	10289.5	10139.8	10088.4	10135.5	9840.3	9219.9
40°	10850.0	11012.6	11162.3	10935.6	10918.4	10948.4	10631.8	10576.2	9968.6	9643.5
42.5°	11671.4	11739.9	11769.8	11761.3	11859.7	11859.7	11256.4	11136.6	10704.5	10439.3
45°	12758.2	12813.8	12920.7	12997.7	12886.5	12942.1	12082.2	12035.1	11650.1	11598.7
47.5°	13699.4	13832.0	14071.6	14298.4	14443.8	14255.6	13314.3	12980.6	12882.2	13190.3
50°	14520.9	14362.6	14923.0	15154.1	15791.5	16103.9	14674.9	14542.2	14383.9	14974.4
52.5°	14602.1	14816.1	15607.6	16069.6	17383.1	17960.7	16343.4	16287.8	16095.3	16775.6
55°	15184.0	15158.3	15954.1	16955.3	18516.9	19488.1	18516.9	18482.6	18063.4	18709.4
57.5°	15085.6	15346.6	15975.5	17374.5	19539.4	21126.7	21036.8	20801.5	20215.4	20741.6
60°	14751.9	14820.3	15586.2	17361.7	20134.1	22808.1	23757.9	23805.0	22607.0	23026.3
62.5°	12860.8	13019.1	13990.3	15996.9	19710.5	23967.5	26414.8	26247.9	25289.6	24810.4
65°	10229.6	10071.3	11081.0	13250.2	17075.0	23146.1	27578.5	28198.9	26692.9	25815.8
67.5°	6272.1	6233.6	7204.8	9117.2	12775.3	19697.7	26650.1	27133.5	26303.5	25601.9
70°	3230.2	3131.8	3739.3	5087.0	8030.5	14452.4	23193.1	23668.0	24459.5	22962.1
72.5°	1506.0	1484.6	1809.8	2502.9	4090.1	8496.9	17960.7	18302.9	19971.5	19359.7
75°	885.6	898.5	1082.4	1309.2	1993.7	4004.6	11919.6	12582.7	14392.5	13951.8
77.5°	663.2	663.2	770.1	911.3	1163.7	1548.8	5882.8	6759.9	8415.6	7568.5
80°	487.7	496.3	590.4	684.5	808.6	800.1	2336.0	2738.2	3859.1	3298.6
82.5°	380.8	393.6	457.8	509.1	569.0	483.5	958.4	1031.1	1587.3	1262.1
85°	265.3	273.8	359.4	346.5	346.5	269.5	397.9	419.3	628.9	599.0
87.5°	64.2	72.7	175.4	192.5	145.5	81.3	124.1	141.2	226.8	261.0
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4907.3	0°	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3	4907.3
4992.9	2.5°	4928.7	4945.8	5018.5	4980.0	5001.4	4911.6	4984.3	4924.4	4975.8	4950.1
5031.4	5°	5065.6	5027.1	5069.9	5039.9	5039.9	5074.2	5125.5	5087.0	5164.0	5129.8
5061.3	7.5°	5121.2	5125.5	5151.2	5155.5	5134.1	5241.0	5245.3	5232.5	5305.2	5288.1
5266.7	10°	5258.1	5262.4	5309.5	5335.2	5313.8	5352.3	5309.5	5275.3	5271.0	5253.9
5429.3	12.5°	5476.3	5519.1	5510.6	5532.0	5536.2	5373.7	5275.3	5108.4	5087.0	5108.4
5668.9	15°	5677.4	5660.3	5668.9	5711.6	5532.0	5271.0	5095.6	4954.4	4962.9	4967.2
5981.2	17.5°	5917.0	5929.8	5942.7	5745.9	5416.4	5108.4	4954.4	4954.4	4911.6	4928.7
6199.4	20°	6190.8	6139.5	6028.2	5750.2	5215.4	4920.1	4873.1	4873.1	4821.7	4787.5
6434.7	22.5°	6404.7	6302.1	6135.2	5617.5	5035.7	4847.4	4731.9	4650.6	4590.7	4522.3
6695.7	25°	6541.7	6486.0	6160.9	5480.6	4903.0	4654.9	4483.8	4359.7	4282.7	4192.8
6901.0	27.5°	6751.3	6644.3	6233.6	5322.3	4757.6	4462.4	4197.1	4004.6	3859.1	3765.0
7213.4	30°	7033.7	6879.6	6182.3	5095.6	4535.1	4128.6	3816.3	3568.2	3401.3	3324.3
7508.6	32.5°	7264.7	7063.6	6139.5	4890.2	4286.9	3790.7	3375.6	3123.2	3029.1	2930.7
8004.9	35°	7705.4	7307.5	6109.5	4774.7	4064.5	3452.7	3016.3	2798.1	2678.3	2532.8
8300.1	37.5°	8043.4	7731.0	6036.8	4535.1	3777.8	3123.2	2742.4	2545.6	2365.9	2211.9
8984.6	40°	8573.9	8321.5	6041.1	4197.1	3439.8	2840.8	2528.5	2323.2	2096.4	1963.8
9998.6	42.5°	9570.8	8903.3	6066.8	3927.6	3059.0	2609.8	2336.0	2092.1	1865.4	1754.1
11153.8	45°	10794.4	9703.4	5908.5	3683.7	2669.7	2391.6	2105.0	1861.1	1715.6	1634.3
12723.9	47.5°	12202.0	10486.3	5694.5	3225.9	2344.6	2160.6	1891.0	1749.9	1642.9	1595.8
14747.6	50°	13776.4	11607.3	5634.6	2806.6	2092.1	1963.8	1788.4	1681.4	1608.7	1553.1
17028.0	52.5°	15804.4	12912.2	5514.8	2374.5	1873.9	1805.5	1749.9	1677.1	1613.0	1565.9
19154.3	55°	17742.5	14358.3	5386.5	2019.4	1719.9	1728.5	1758.4	1694.2	1638.6	1565.9
21537.4	57.5°	19924.5	15834.3	4911.6	1758.4	1604.4	1690.0	1749.9	1677.1	1621.5	1565.9
23976.1	60°	21272.1	16664.3	3983.2	1531.7	1501.7	1617.2	1698.5	1621.5	1561.6	1583.0
25097.0	62.5°	21819.8	16227.9	3003.4	1390.5	1429.0	1518.8	1617.2	1587.3	1544.5	1625.8
25084.2	65°	20887.1	15222.5	2147.8	1270.7	1330.6	1420.4	1544.5	1578.7	1591.6	1749.9
23039.1	67.5°	18585.3	13254.4	1578.7	1172.3	1227.9	1360.5	1595.8	1651.5	1642.9	1839.7
19334.0	70°	14871.7	10366.5	1232.2	1091.0	1189.4	1407.6	1668.6	1668.6	1608.7	1839.7
14747.6	72.5°	10820.0	7307.5	1061.0	996.9	1091.0	1292.1	1660.0	1655.7	1578.7	1681.4
9391.1	75°	6550.2	4252.7	937.0	902.7	937.0	1108.1	1587.3	1561.6	1454.7	1446.1
4518.0	77.5°	3264.4	2139.2	765.8	800.1	817.2	928.4	1394.8	1433.3	1287.8	1253.6
1784.1	80°	1377.6	932.7	637.5	688.8	688.8	782.9	1159.4	1185.1	1069.6	1005.4
705.9	82.5°	628.9	534.8	543.4	599.0	560.5	607.5	919.9	949.8	868.5	761.6
299.5	85°	265.3	303.8	415.0	470.6	415.0	393.6	633.2	667.4	564.7	470.6
128.4	87.5°	119.8	166.9	261.0	342.3	209.6	184.0	338.0	350.8	282.4	209.6
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°
4907.3
4903.0
5082.7
5262.4
5253.9
5117.0
5027.1
4933.0
4736.2
4483.8
4209.9
3807.8
3367.1
2926.4
2520.0
2216.2
1976.6
1762.7
1651.5
1587.3
1561.6
1561.6
1561.6
1561.6
1565.9
1604.4
1749.9
1852.5
1801.2
1621.5
1429.0
1232.2
984.0
744.4
474.9
196.8
0.0

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