

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: P477437

Luminaire Tested: **IFLD-M-SA4C-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477437
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

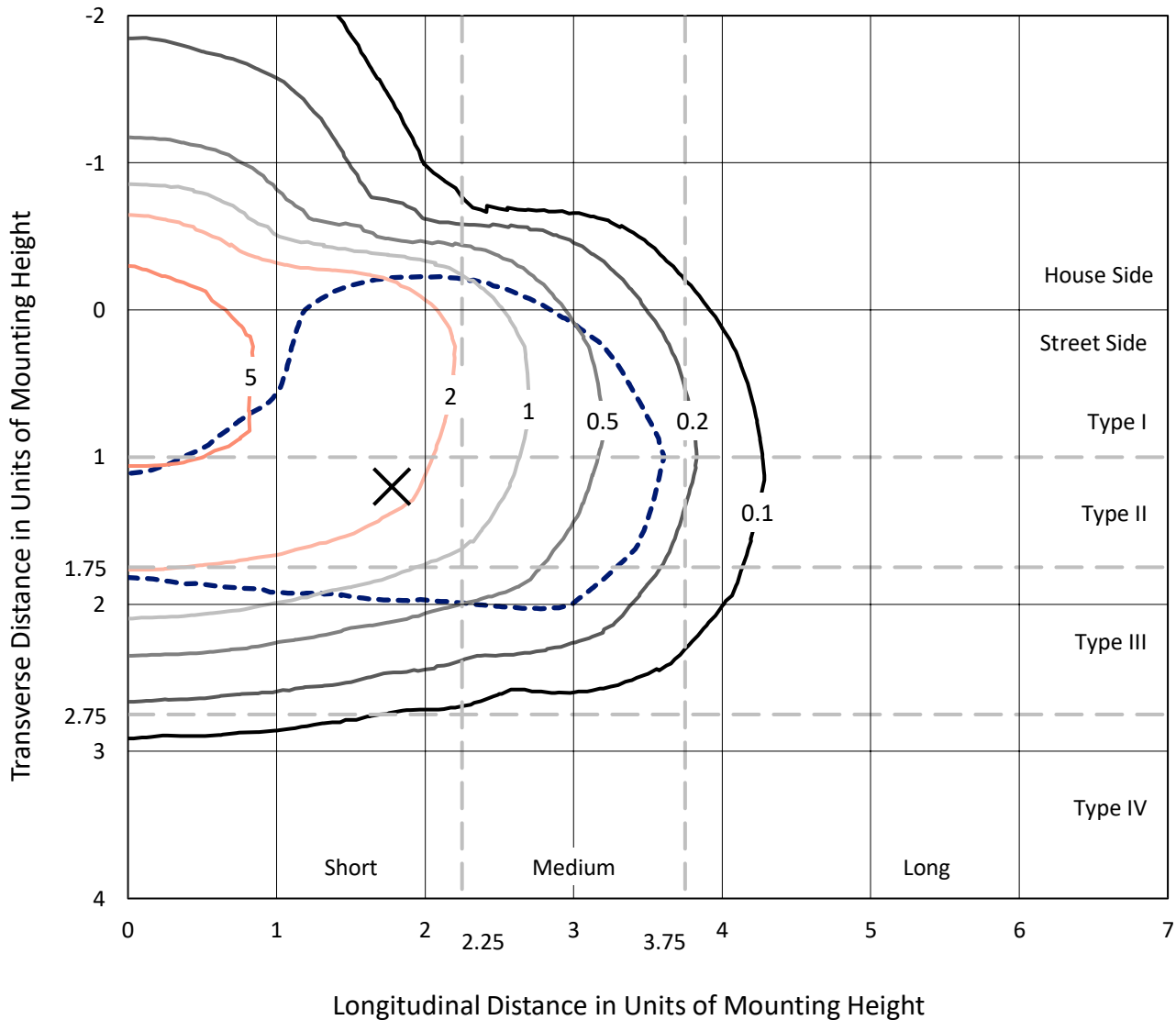
Lumens per Lamp: N/A
Luminaire Lumens: 29621.4 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

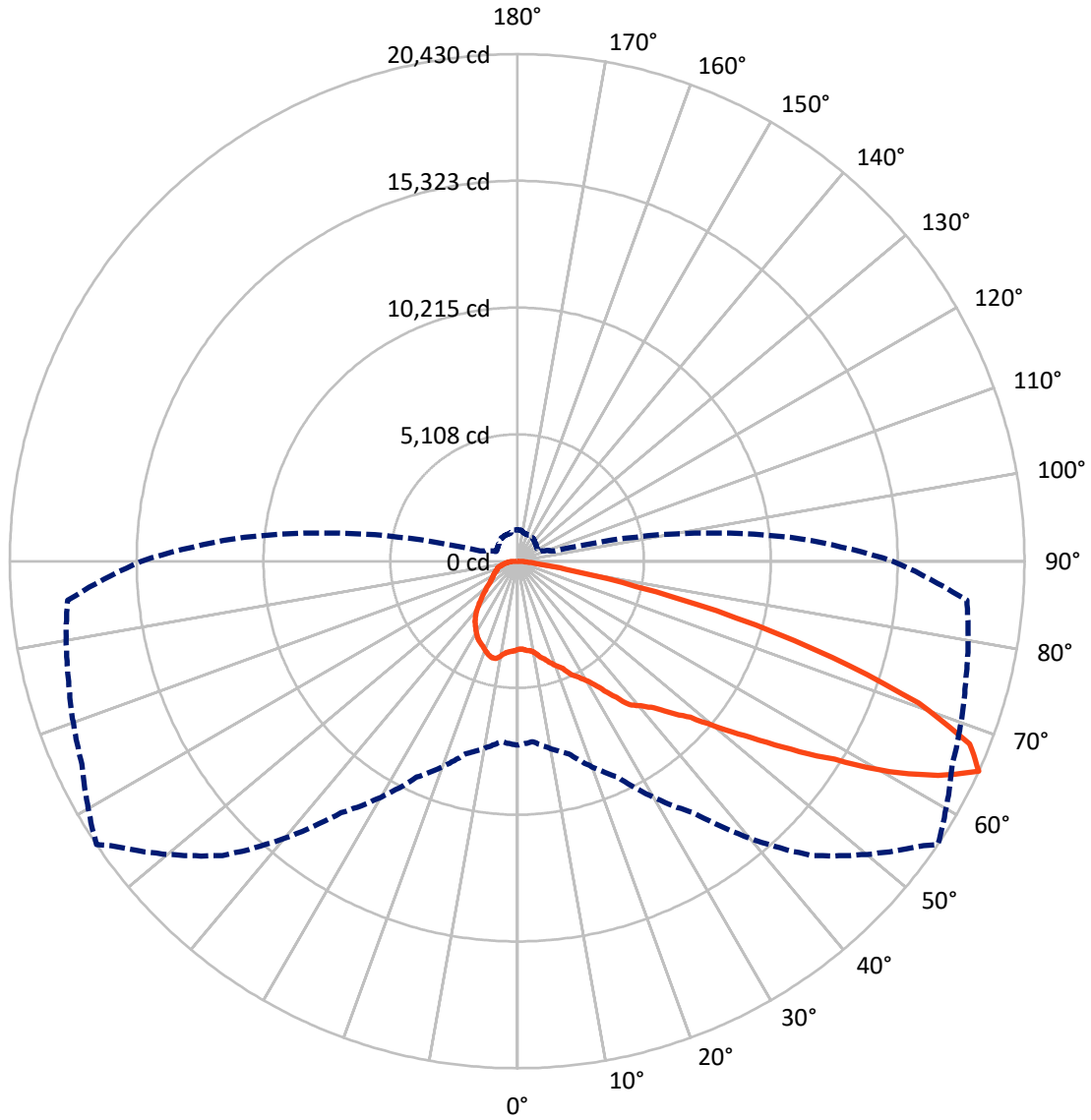
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	6643.1	0.0	6643.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22978.3	0.0	22978.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	29621.4	0.0	29621.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.3	1.2
10°-20°	1144.1	3.9
20°-30°	2037.1	6.9
30°-40°	3050.4	10.3
40°-50°	4519.6	15.3
50°-60°	6964.1	23.5
60°-70°	7884.2	26.6
70°-80°	3272.0	11.0
80°-90°	397.5	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°	29621.4	100.0
0°-180°	29621.4	100.0

Coefficient of Utilization

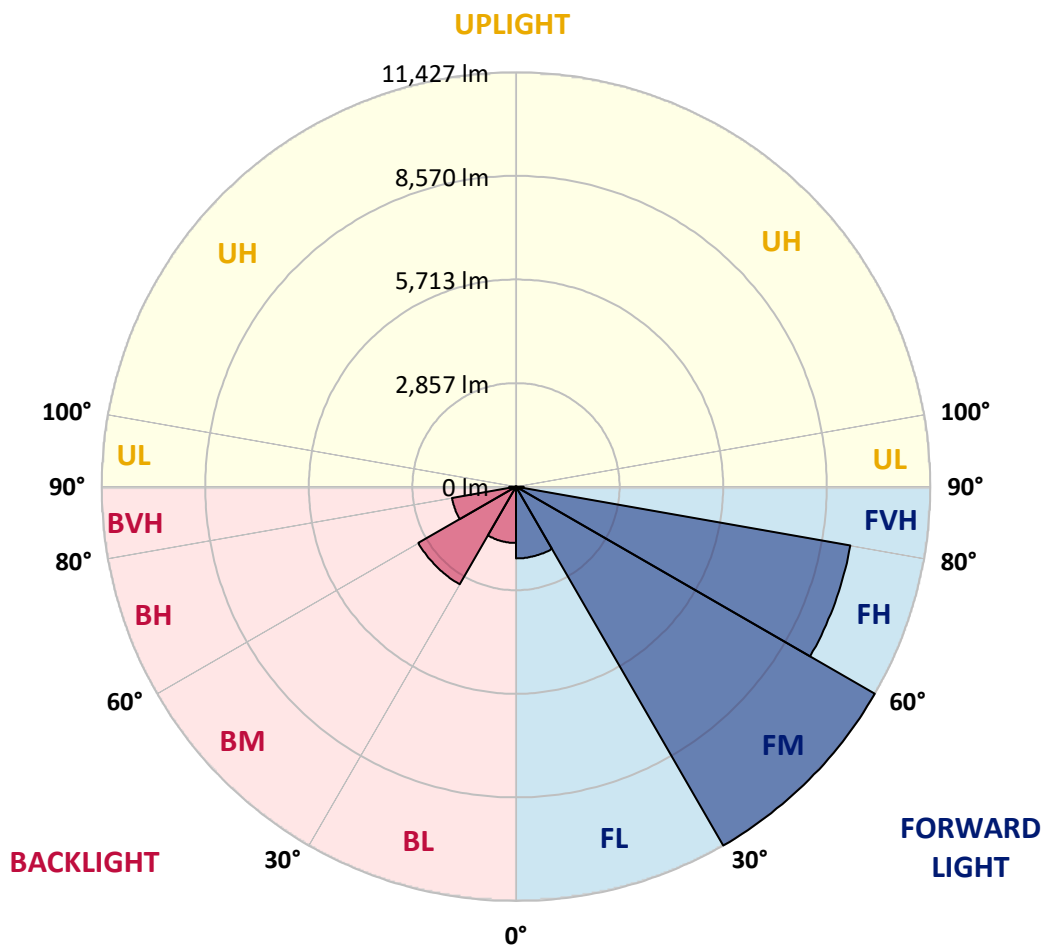


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.6	6.7			
FM (30°-60°)	11426.6	38.6			
FH (60°-80°)	9362.4	31.6			G4/12000
FVH (80°-90°)	209.7	0.7			G2/225
BL (0°-30°)	1553.9	5.2	B3/2500		
BM (30°-60°)	3107.5	10.5	B3/5000		
BH (60°-80°)	1793.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	187.8	0.6			G2/225
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°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	3462.4	3481.0	3468.6	3505.8	3536.8	3536.8	3561.6	3543.0	3567.8	3601.9
5°	3577.1	3502.7	3543.0	3561.6	3552.3	3567.8	3543.0	3605.0	3564.7	3629.8
7.5°	3605.0	3632.9	3667.0	3636.0	3663.9	3648.4	3651.5	3642.2	3620.5	3673.2
10°	3809.6	3769.3	3846.8	3800.3	3794.1	3787.9	3775.5	3729.0	3781.7	3784.8
12.5°	4045.2	4008.0	4004.9	3967.7	4017.3	3927.4	3946.0	3921.2	3930.5	3942.9
15°	4215.7	4200.2	4271.5	4228.1	4163.0	4122.7	4166.1	4097.9	4132.0	4125.8
17.5°	4553.5	4550.4	4497.7	4426.4	4389.2	4330.3	4321.1	4293.2	4318.0	4305.6
20°	4789.1	4823.2	4832.5	4748.8	4606.2	4541.1	4525.6	4503.9	4531.8	4522.5
22.5°	5148.7	5096.0	5136.3	4990.6	4937.9	4782.9	4727.1	4696.1	4829.4	4795.3
25°	5378.1	5433.9	5393.6	5344.0	5226.2	5034.0	4993.7	5061.9	5114.6	5077.4
27.5°	5895.7	5839.9	5802.7	5653.9	5576.4	5375.0	5328.5	5303.7	5316.1	5337.8
30°	6289.4	6320.4	6236.7	6131.3	5936.0	5731.4	5622.9	5601.2	5557.9	5520.7
32.5°	6850.4	6803.9	6754.4	6686.2	6518.8	6249.1	6143.7	6063.1	5932.9	5759.3
35°	7120.1	7253.4	7216.2	7033.3	6906.2	6803.9	6773.0	6649.0	6540.5	6267.7
37.5°	7569.6	7625.4	7572.7	7513.8	7454.9	7346.4	7309.2	7343.3	7129.4	6680.0
40°	7861.0	7978.8	8087.2	7923.0	7910.6	7932.3	7702.9	7662.6	7222.4	6986.8
42.5°	8456.1	8505.7	8527.4	8521.2	8592.5	8592.5	8155.4	8068.6	7755.6	7563.4
45°	9243.5	9283.7	9361.2	9417.0	9336.4	9376.7	8753.7	8719.6	8440.6	8403.4
47.5°	9925.4	10021.5	10195.1	10359.4	10464.8	10328.4	9646.4	9404.6	9333.3	9556.5
50°	10520.5	10405.9	10811.9	10979.3	11441.2	11667.5	10632.1	10536.0	10421.4	10849.1
52.5°	10579.4	10734.4	11307.9	11642.7	12594.3	13012.7	11841.0	11800.7	11661.3	12154.1
55°	11001.0	10982.4	11559.0	12284.3	13415.7	14119.4	13415.7	13390.9	13087.1	13555.2
57.5°	10929.7	11118.8	11574.5	12588.1	14156.6	15306.6	15241.5	15071.0	14646.3	15027.6
60°	10687.9	10737.5	11292.4	12578.8	14587.4	16524.8	17212.9	17247.0	16379.1	16682.9
62.5°	9317.8	9432.5	10136.2	11590.0	14280.5	17364.8	19137.9	19017.0	18322.6	17975.4
65°	7411.5	7296.8	8028.4	9599.9	12371.1	16769.6	19981.0	20430.4	19339.3	18703.9
67.5°	4544.2	4516.3	5220.0	6605.6	9255.9	14271.2	19308.3	19658.6	19057.3	18548.9
70°	2340.3	2269.0	2709.2	3685.6	5818.2	10471.0	16803.7	17147.8	17721.3	16636.4
72.5°	1091.1	1075.6	1311.2	1813.4	2963.4	6156.1	13012.7	13260.7	14469.6	14026.4
75°	641.6	650.9	784.2	948.5	1444.5	2901.4	8635.9	9116.4	10427.6	10108.3
77.5°	480.5	480.5	558.0	660.2	843.1	1122.1	4262.2	4897.6	6097.2	5483.5
80°	353.4	359.6	427.8	496.0	585.9	579.7	1692.5	1983.8	2796.0	2389.9
82.5°	275.9	285.2	331.7	368.9	412.3	350.3	694.3	747.0	1150.0	914.4
85°	192.2	198.4	260.4	251.1	251.1	195.3	288.3	303.8	455.7	434.0
87.5°	46.5	52.7	127.1	139.5	105.4	58.9	89.9	102.3	164.3	189.1
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°
3555.4	0°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
3617.4	2.5°	3570.9	3583.3	3636.0	3608.1	3623.6	3558.5	3611.2	3567.8	3605.0	3586.4
3645.3	5°	3670.1	3642.2	3673.2	3651.5	3651.5	3676.3	3713.5	3685.6	3741.4	3716.6
3667.0	7.5°	3710.4	3713.5	3732.1	3735.2	3719.7	3797.2	3800.3	3791.0	3843.7	3831.3
3815.8	10°	3809.6	3812.7	3846.8	3865.4	3849.9	3877.8	3846.8	3822.0	3818.9	3806.5
3933.6	12.5°	3967.7	3998.7	3992.5	4008.0	4011.1	3893.3	3822.0	3701.1	3685.6	3701.1
4107.2	15°	4113.4	4101.0	4107.2	4138.2	4008.0	3818.9	3691.8	3589.5	3595.7	3598.8
4333.4	17.5°	4287.0	4296.3	4305.6	4163.0	3924.3	3701.1	3589.5	3589.5	3558.5	3570.9
4491.5	20°	4485.3	4448.1	4367.5	4166.1	3778.6	3564.7	3530.6	3530.6	3493.4	3468.6
4662.0	22.5°	4640.3	4565.9	4445.0	4070.0	3648.4	3512.0	3428.3	3369.4	3326.0	3276.4
4851.1	25°	4739.5	4699.2	4463.6	3970.8	3552.3	3372.5	3248.5	3158.6	3102.8	3037.8
4999.9	27.5°	4891.4	4813.9	4516.3	3856.1	3446.9	3233.0	3040.9	2901.4	2796.0	2727.8
5226.2	30°	5096.0	4984.4	4479.1	3691.8	3285.7	2991.3	2765.0	2585.2	2464.3	2408.5
5440.1	32.5°	5263.4	5117.7	4448.1	3543.0	3105.9	2746.4	2445.7	2262.8	2194.6	2123.3
5799.6	35°	5582.6	5294.4	4426.4	3459.3	2944.8	2501.5	2185.3	2027.2	1940.4	1835.1
6013.5	37.5°	5827.5	5601.2	4373.7	3285.7	2737.1	2262.8	1986.9	1844.4	1714.2	1602.6
6509.5	40°	6211.9	6029.0	4376.8	3040.9	2492.2	2058.2	1832.0	1683.2	1518.9	1422.8
7244.1	42.5°	6934.1	6450.6	4395.4	2845.6	2216.3	1890.8	1692.5	1515.8	1351.5	1270.9
8081.0	45°	7820.7	7030.2	4280.8	2668.9	1934.2	1732.8	1525.1	1348.4	1243.0	1184.1
9218.7	47.5°	8840.5	7597.5	4125.8	2337.2	1698.7	1565.4	1370.1	1267.8	1190.3	1156.2
10684.8	50°	9981.2	8409.6	4082.4	2033.4	1515.8	1422.8	1295.7	1218.2	1165.5	1125.2
12337.0	52.5°	11450.5	9355.0	3995.6	1720.4	1357.7	1308.1	1267.8	1215.1	1168.6	1134.5
13877.6	55°	12854.7	10402.8	3902.6	1463.1	1246.1	1252.3	1274.0	1227.5	1187.2	1134.5
15604.1	57.5°	14435.5	11472.2	3558.5	1274.0	1162.4	1224.4	1267.8	1215.1	1174.8	1134.5
17371.0	60°	15412.0	12073.5	2885.9	1109.7	1088.0	1171.7	1230.6	1174.8	1131.4	1146.9
18183.1	62.5°	15808.7	11757.3	2176.0	1007.4	1035.3	1100.4	1171.7	1150.0	1119.0	1177.9
18173.8	65°	15133.0	11028.9	1556.1	920.6	964.0	1029.1	1119.0	1143.8	1153.1	1267.8
16692.1	67.5°	13465.3	9603.0	1143.8	849.3	889.6	985.7	1156.2	1196.5	1190.3	1332.9
14007.8	70°	10774.7	7510.7	892.7	790.4	861.7	1019.8	1208.9	1208.9	1165.5	1332.9
10684.8	72.5°	7839.3	5294.4	768.7	722.2	790.4	936.1	1202.7	1199.6	1143.8	1218.2
6803.9	75°	4745.7	3081.2	678.8	654.0	678.8	802.8	1150.0	1131.4	1053.9	1047.7
3273.3	77.5°	2365.1	1549.9	554.9	579.7	592.1	672.6	1010.5	1038.4	933.0	908.2
1292.6	80°	998.1	675.7	461.9	499.1	499.1	567.3	840.0	858.6	774.9	728.4
511.5	82.5°	455.7	387.5	393.7	434.0	406.1	440.2	666.4	688.1	629.2	551.8
217.0	85°	192.2	220.1	300.7	341.0	300.7	285.2	458.8	483.6	409.2	341.0
93.0	87.5°	86.8	120.9	189.1	248.0	151.9	133.3	244.9	254.2	204.6	151.9
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°
3555.4
3552.3
3682.5
3812.7
3806.5
3707.3
3642.2
3574.0
3431.4
3248.5
3050.2
2758.8
2439.5
2120.2
1825.8
1605.7
1432.1
1277.1
1196.5
1150.0
1131.4
1131.4
1131.4
1131.4
1134.5
1162.4
1267.8
1342.2
1305.0
1174.8
1035.3
892.7
712.9
539.4
344.1
142.6
0.0

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