

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: P477565

Luminaire Tested: **IFLD-L-SA8D-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477565
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

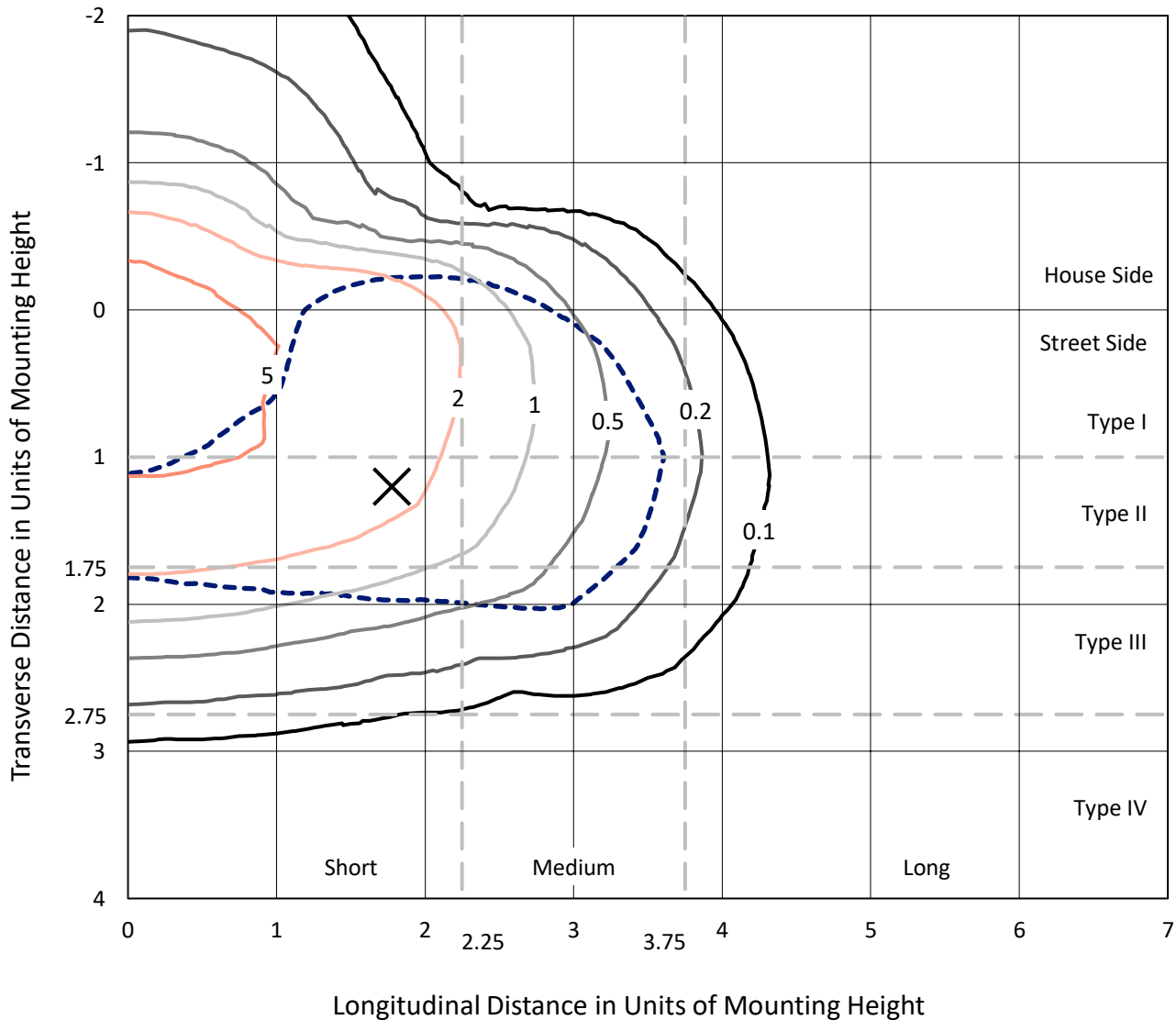
Lumens per Lamp: N/A
Luminaire Lumens: 45117.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

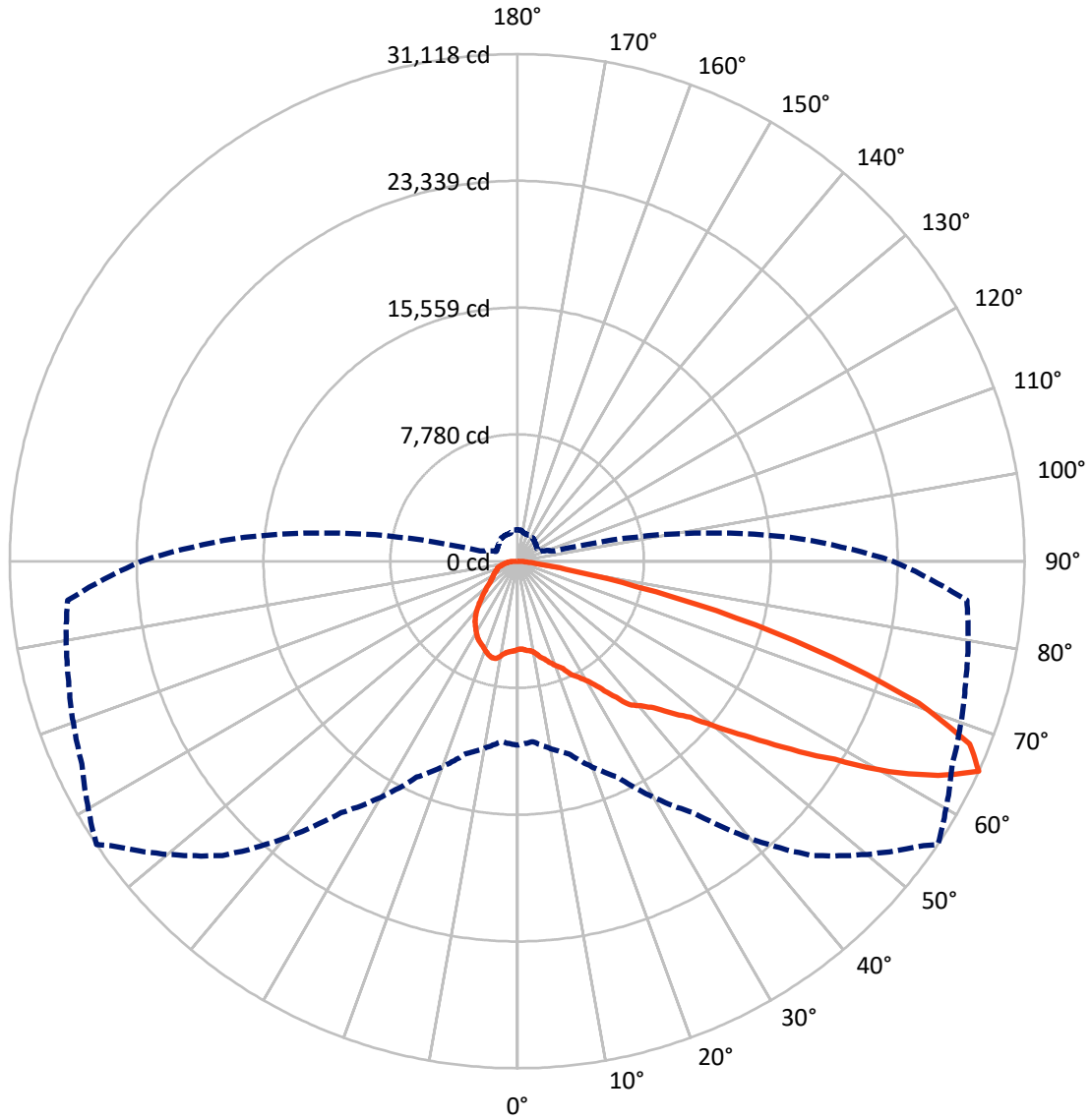
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	10118.4	0.0	10118.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	34999.1	0.0	34999.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	45117.5	0.0	45117.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	1.2
10°-20°	1742.6	3.9
20°-30°	3102.7	6.9
30°-40°	4646.3	10.3
40°-50°	6884.0	15.3
50°-60°	10607.3	23.5
60°-70°	12008.8	26.6
70°-80°	4983.8	11.0
80°-90°	605.5	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°	45117.5	100.0
0°-180°	45117.5	100.0

Coefficient of Utilization

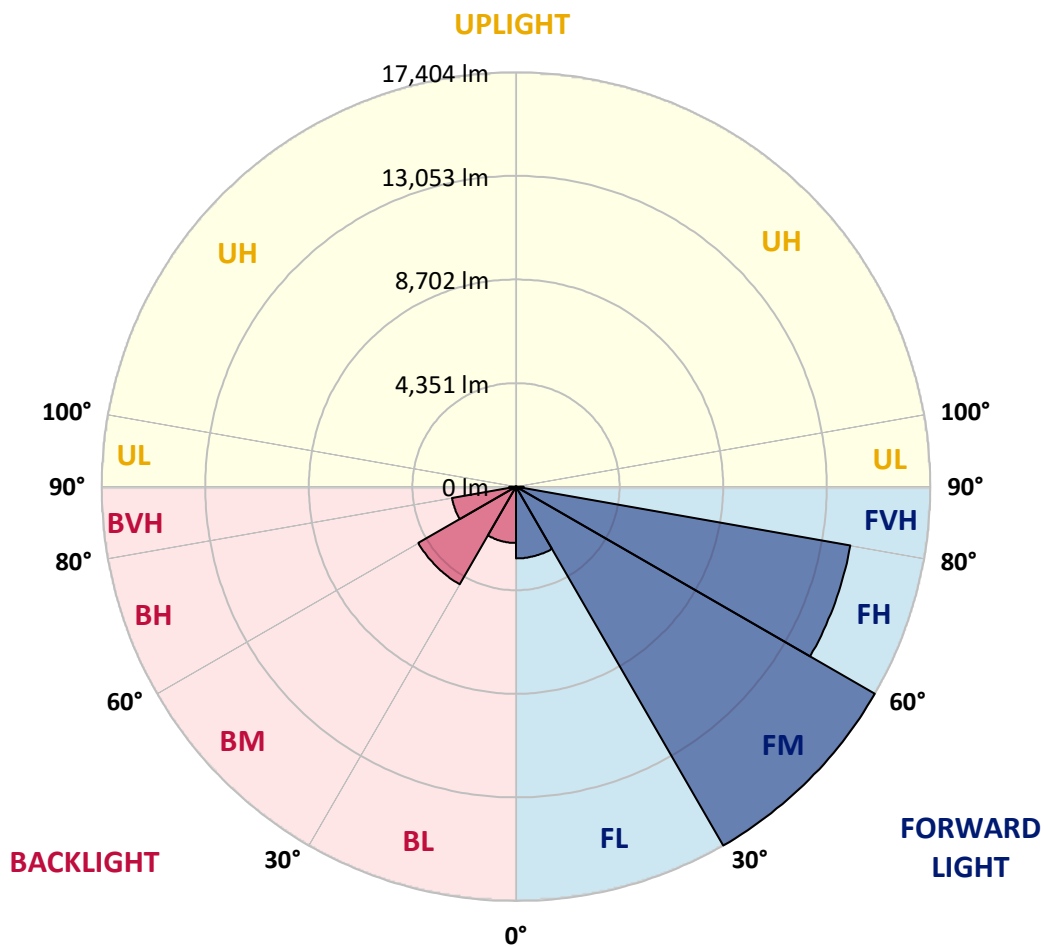


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3015.2	6.7			
FM (30°-60°)	17404.4	38.6			
FH (60°-80°)	14260.2	31.6			G5
FVH (80°-90°)	319.4	0.7			G3/500
BL (0°-30°)	2366.8	5.2	B3/2500		
BM (30°-60°)	4733.2	10.5	B3/5000		
BH (60°-80°)	2732.3	6.1	B4/5000		G4/5000
BVH (80°-90°)	286.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4
2.5°	5273.7	5302.1	5283.2	5339.8	5387.1	5387.1	5424.8	5396.5	5434.3	5486.2
5°	5448.4	5335.1	5396.5	5424.8	5410.7	5434.3	5396.5	5490.9	5429.5	5528.7
7.5°	5490.9	5533.4	5585.4	5538.1	5580.6	5557.0	5561.7	5547.6	5514.5	5594.8
10°	5802.5	5741.2	5859.2	5788.4	5778.9	5769.5	5750.6	5679.8	5760.0	5764.8
12.5°	6161.4	6104.7	6100.0	6043.3	6118.9	5981.9	6010.3	5972.5	5986.7	6005.6
15°	6421.0	6397.4	6506.0	6439.9	6340.8	6279.4	6345.5	6241.6	6293.6	6284.1
17.5°	6935.7	6930.9	6850.7	6742.1	6685.4	6595.7	6581.6	6539.1	6576.8	6558.0
20°	7294.5	7346.4	7360.6	7233.1	7015.9	6916.8	6893.2	6860.1	6902.6	6888.4
22.5°	7842.2	7761.9	7823.3	7601.4	7521.1	7285.0	7200.1	7152.8	7355.9	7303.9
25°	8191.5	8276.5	8215.1	8139.6	7960.2	7667.5	7606.1	7710.0	7790.2	7733.6
27.5°	8980.0	8895.0	8838.4	8611.7	8493.7	8186.8	8116.0	8078.2	8097.1	8130.2
30°	9579.6	9626.8	9499.4	9338.8	9041.4	8729.8	8564.5	8531.5	8465.4	8408.7
32.5°	10434.2	10363.4	10287.8	10183.9	9929.0	9518.2	9357.7	9235.0	9036.7	8772.3
35°	10844.9	11048.0	10991.3	10712.7	10519.2	10363.4	10316.1	10127.3	9962.0	9546.6
37.5°	11529.5	11614.5	11534.3	11444.5	11354.8	11189.6	11132.9	11184.9	10859.1	10174.5
40°	11973.3	12152.7	12318.0	12067.8	12048.9	12081.9	11732.5	11671.2	11000.7	10641.9
42.5°	12879.8	12955.4	12988.4	12979.0	13087.6	13087.6	12421.9	12289.7	11812.8	11520.1
45°	14079.1	14140.4	14258.5	14343.5	14220.7	14282.1	13333.1	13281.1	12856.2	12799.6
47.5°	15117.8	15264.1	15528.5	15778.7	15939.3	15731.5	14692.8	14324.6	14216.0	14555.9
50°	16024.3	15849.6	16468.1	16723.0	17426.5	17771.2	16194.2	16047.9	15873.2	16524.7
52.5°	16114.0	16350.0	17223.5	17733.4	19182.8	19820.2	18035.5	17974.2	17761.7	18512.4
55°	16756.1	16727.7	17605.9	18710.7	20434.0	21505.7	20434.0	20396.2	19933.5	20646.5
57.5°	16647.5	16935.5	17629.5	19173.4	21562.4	23314.0	23214.9	22955.2	22308.4	22889.1
60°	16279.2	16354.7	17199.9	19159.2	22218.7	25169.5	26217.6	26269.6	24947.6	25410.3
62.5°	14192.4	14367.1	15438.8	17653.1	21751.2	26449.0	29149.6	28965.5	27907.9	27379.1
65°	11288.7	11114.1	12228.3	14622.0	18842.9	25542.5	30433.8	31118.4	29456.5	28488.6
67.5°	6921.5	6879.0	7950.7	10061.2	14097.9	21737.1	29409.3	29942.8	29026.8	28252.5
70°	3564.6	3456.0	4126.5	5613.7	8862.0	15948.7	25594.4	26118.5	26991.9	25339.5
72.5°	1661.9	1638.3	1997.1	2762.0	4513.6	9376.6	19820.2	20197.9	22039.2	21364.1
75°	977.3	991.5	1194.5	1444.7	2200.1	4419.2	13153.7	13885.5	15882.6	15396.3
77.5°	731.8	731.8	849.8	1005.6	1284.2	1709.1	6491.9	7459.7	9286.9	8352.1
80°	538.2	547.7	651.5	755.4	892.3	882.9	2577.9	3021.7	4258.7	3640.2
82.5°	420.2	434.4	505.2	561.8	627.9	533.5	1057.6	1137.8	1751.6	1392.8
85°	292.7	302.2	396.6	382.4	382.4	297.4	439.1	462.7	694.0	661.0
87.5°	70.8	80.3	193.6	212.5	160.5	89.7	136.9	155.8	250.2	288.0
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°
5415.4	0°	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4	5415.4
5509.8	2.5°	5439.0	5457.9	5538.1	5495.6	5519.3	5420.1	5500.4	5434.3	5490.9	5462.6
5552.3	5°	5590.1	5547.6	5594.8	5561.7	5561.7	5599.5	5656.2	5613.7	5698.7	5660.9
5585.4	7.5°	5651.5	5656.2	5684.5	5689.2	5665.6	5783.7	5788.4	5774.2	5854.5	5835.6
5812.0	10°	5802.5	5807.3	5859.2	5887.5	5863.9	5906.4	5859.2	5821.4	5816.7	5797.8
5991.4	12.5°	6043.3	6090.5	6081.1	6104.7	6109.4	5930.0	5821.4	5637.3	5613.7	5637.3
6255.8	15°	6265.2	6246.3	6255.8	6303.0	6104.7	5816.7	5623.1	5467.3	5476.8	5481.5
6600.4	17.5°	6529.6	6543.8	6558.0	6340.8	5977.2	5637.3	5467.3	5467.3	5420.1	5439.0
6841.2	20°	6831.8	6775.1	6652.4	6345.5	5755.3	5429.5	5377.6	5377.6	5321.0	5283.2
7100.9	22.5°	7067.9	6954.5	6770.4	6199.1	5557.0	5349.3	5221.8	5132.1	5066.0	4990.5
7388.9	25°	7218.9	7157.6	6798.7	6048.0	5410.7	5136.8	4948.0	4811.1	4726.1	4626.9
7615.5	27.5°	7450.3	7332.3	6879.0	5873.4	5250.1	4924.4	4631.6	4419.2	4258.7	4154.8
7960.2	30°	7761.9	7591.9	6822.3	5623.1	5004.6	4556.1	4211.4	3937.6	3753.5	3668.5
8286.0	32.5°	8016.8	7794.9	6775.1	5396.5	4730.8	4183.1	3725.1	3446.6	3342.7	3234.1
8833.6	35°	8503.1	8064.1	6742.1	5269.0	4485.3	3810.1	3328.5	3087.8	2955.6	2795.0
9159.4	37.5°	8876.1	8531.5	6661.8	5004.6	4168.9	3446.6	3026.4	2809.2	2610.9	2440.9
9914.8	40°	9461.6	9183.0	6666.5	4631.6	3796.0	3135.0	2790.3	2563.7	2313.5	2167.1
11033.8	42.5°	10561.7	9825.1	6694.9	4334.2	3375.8	2880.0	2577.9	2308.7	2058.5	1935.8
12308.6	45°	11912.0	10708.0	6520.2	4065.1	2946.1	2639.2	2322.9	2053.8	1893.3	1803.6
14041.3	47.5°	13465.3	11572.0	6284.1	3559.9	2587.3	2384.3	2086.8	1931.0	1813.0	1761.1
16274.5	50°	15202.7	12809.0	6218.0	3097.2	2308.7	2167.1	1973.5	1855.5	1775.2	1713.8
18791.0	52.5°	17440.7	14249.0	6085.8	2620.3	2068.0	1992.4	1931.0	1850.8	1779.9	1728.0
21137.5	55°	19579.4	15844.8	5944.2	2228.5	1898.0	1907.4	1940.5	1869.7	1808.3	1728.0
23767.3	57.5°	21987.3	17473.7	5420.1	1940.5	1770.5	1864.9	1931.0	1850.8	1789.4	1728.0
26458.4	60°	23474.5	18389.6	4395.6	1690.2	1657.2	1784.7	1874.4	1789.4	1723.3	1746.9
27695.4	62.5°	24078.9	17908.1	3314.4	1534.4	1576.9	1676.1	1784.7	1751.6	1704.4	1794.1
27681.3	65°	23049.6	16798.6	2370.1	1402.2	1468.3	1567.5	1704.4	1742.2	1756.3	1931.0
25424.5	67.5°	20509.5	14626.7	1742.2	1293.6	1355.0	1501.4	1761.1	1822.4	1813.0	2030.2
21335.8	70°	16411.4	11439.8	1359.7	1203.9	1312.5	1553.3	1841.3	1841.3	1775.2	2030.2
16274.5	72.5°	11940.3	8064.1	1170.9	1100.1	1203.9	1425.8	1831.9	1827.2	1742.2	1855.5
10363.4	75°	7228.4	4693.0	1034.0	996.2	1034.0	1222.8	1751.6	1723.3	1605.3	1595.8
4985.7	77.5°	3602.4	2360.7	845.1	882.9	901.8	1024.5	1539.2	1581.7	1421.1	1383.4
1968.8	80°	1520.3	1029.3	703.5	760.1	760.1	864.0	1279.5	1307.8	1180.3	1109.5
779.0	82.5°	694.0	590.2	599.6	661.0	618.5	670.4	1015.1	1048.1	958.4	840.4
330.5	85°	292.7	335.2	458.0	519.3	458.0	434.4	698.8	736.5	623.2	519.3
141.6	87.5°	132.2	184.1	288.0	377.7	231.3	203.0	373.0	387.2	311.6	231.3
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°
5415.4
5410.7
5609.0
5807.3
5797.8
5646.7
5547.6
5443.7
5226.5
4948.0
4645.8
4202.0
3715.7
3229.4
2780.9
2445.7
2181.3
1945.2
1822.4
1751.6
1723.3
1723.3
1723.3
1723.3
1728.0
1770.5
1931.0
2044.3
1987.7
1789.4
1576.9
1359.7
1085.9
821.5
524.1
217.2
0.0

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