

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: P477551

Luminaire Tested: **IFLD-S-SA6E-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477551
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

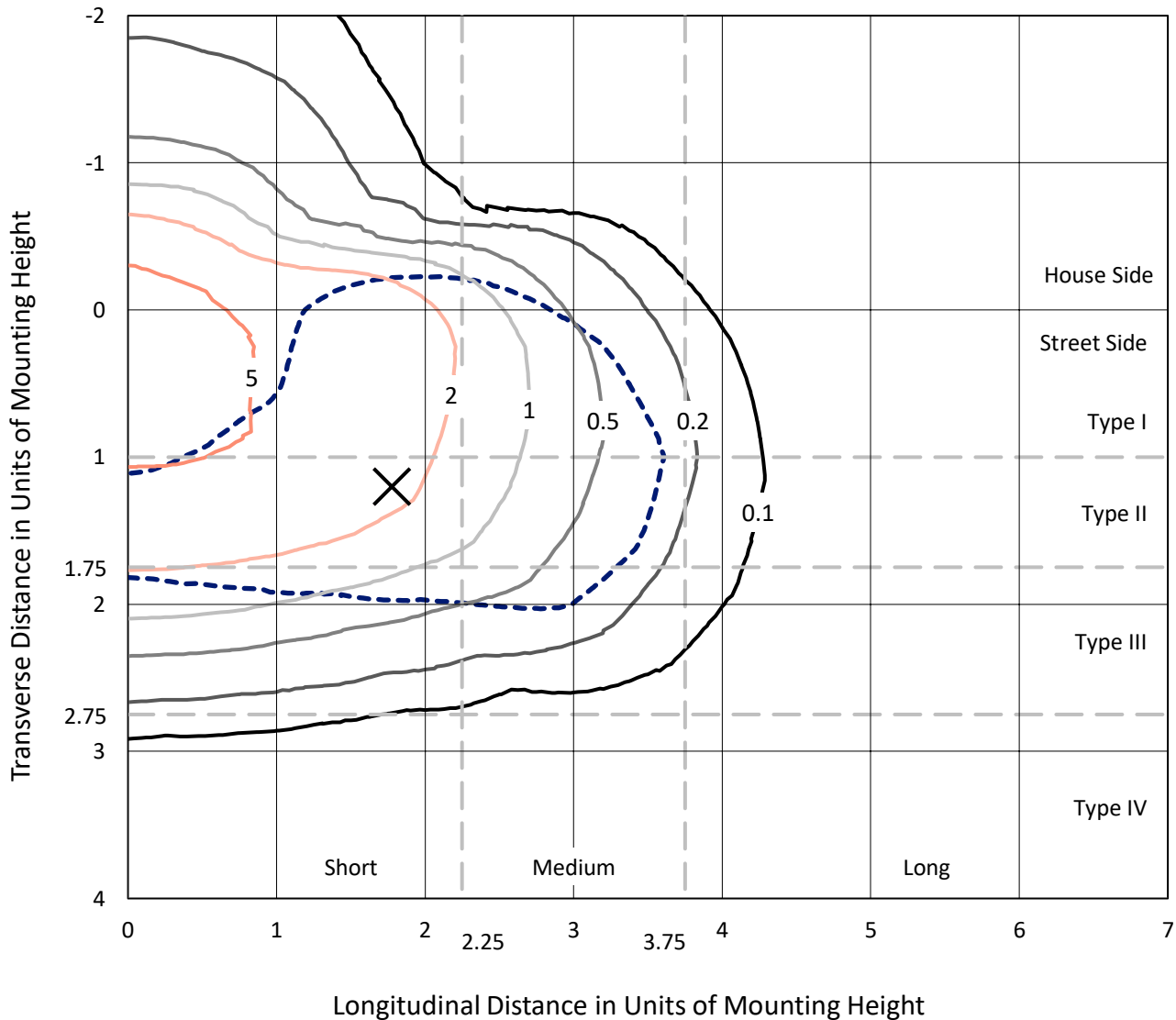
Lumens per Lamp: N/A
Luminaire Lumens: 42823.3 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

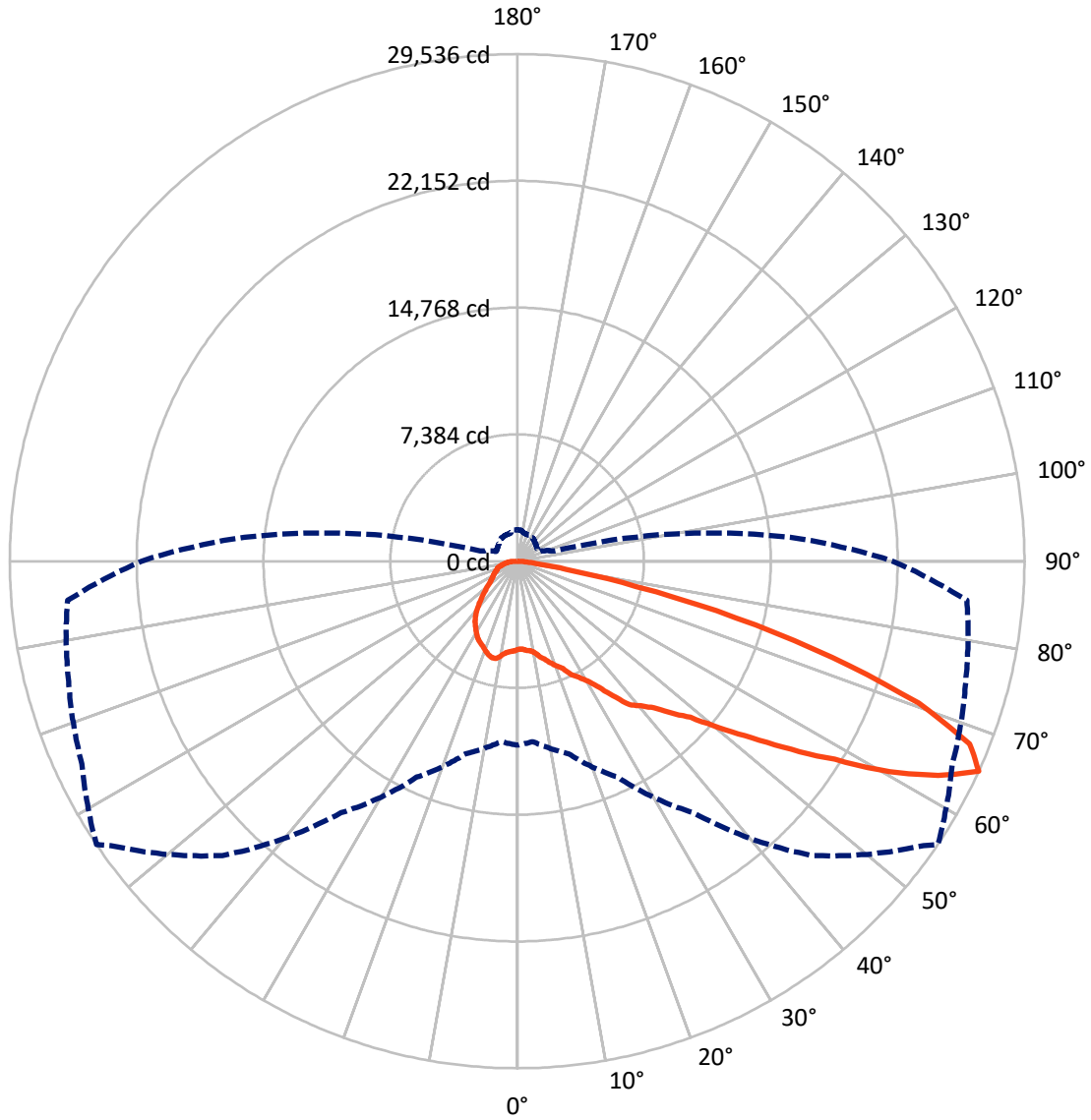
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	9603.9	0.0	9603.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	33219.4	0.0	33219.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	42823.3	0.0	42823.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.3	1.2
10°-20°	1654.0	3.9
20°-30°	2945.0	6.9
30°-40°	4410.0	10.3
40°-50°	6534.0	15.3
50°-60°	10067.9	23.5
60°-70°	11398.1	26.6
70°-80°	4730.3	11.0
80°-90°	574.7	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°	42823.3	100.0
0°-180°	42823.3	100.0

Coefficient of Utilization

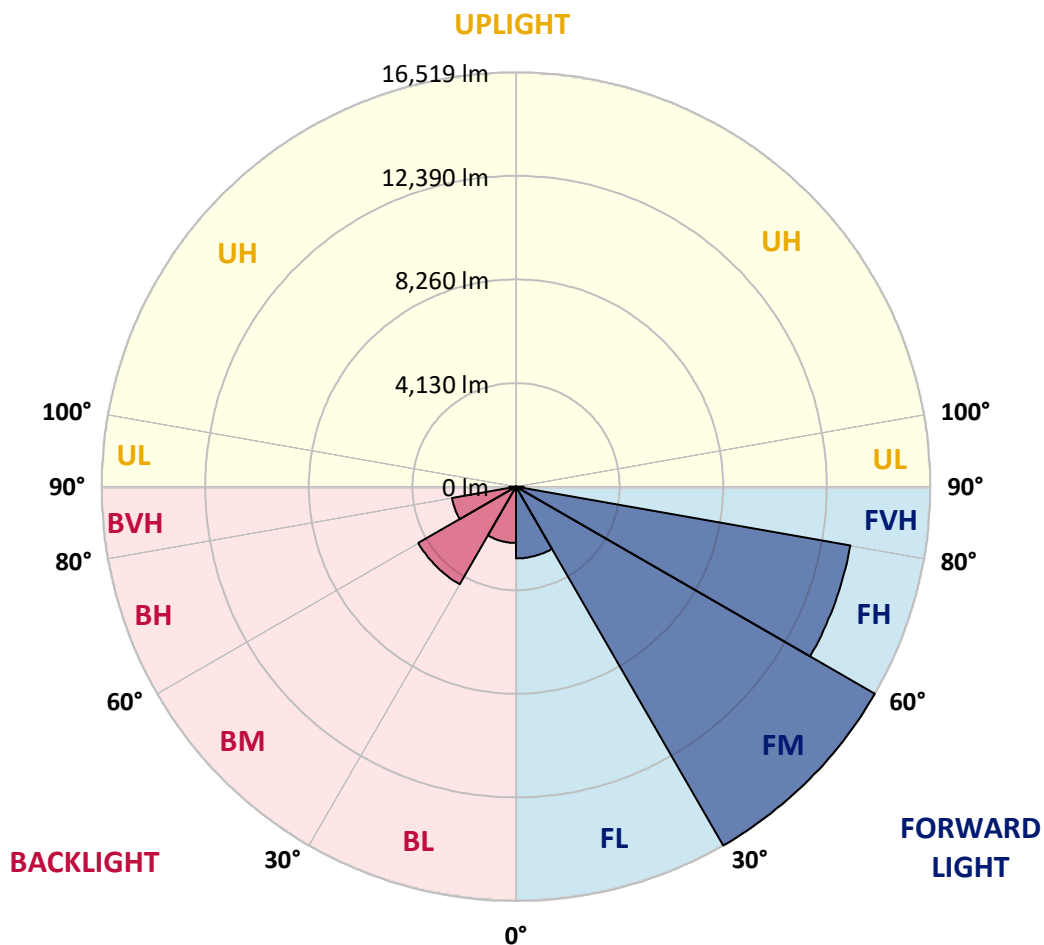


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.8	6.7			
FM (30°-60°)	16519.4	38.6			
FH (60°-80°)	13535.1	31.6			G5
FVH (80°-90°)	303.1	0.7			G3/500
BL (0°-30°)	2246.4	5.2	B3/2500		
BM (30°-60°)	4492.5	10.5	B3/5000		
BH (60°-80°)	2593.4	6.1	B4/5000		G4/5000
BVH (80°-90°)	271.5	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°	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0
2.5°	5005.6	5032.5	5014.5	5068.3	5113.1	5113.1	5149.0	5122.1	5157.9	5207.2
5°	5171.4	5063.8	5122.1	5149.0	5135.5	5157.9	5122.1	5211.7	5153.5	5247.6
7.5°	5211.7	5252.1	5301.3	5256.5	5296.9	5274.5	5278.9	5265.5	5234.1	5310.3
10°	5507.5	5449.2	5561.3	5494.0	5485.1	5476.1	5458.2	5391.0	5467.2	5471.6
12.5°	5848.1	5794.3	5789.8	5736.0	5807.7	5677.8	5704.7	5668.8	5682.3	5700.2
15°	6094.5	6072.1	6175.2	6112.5	6018.4	5960.1	6022.8	5924.2	5973.5	5964.6
17.5°	6583.0	6578.5	6502.3	6399.3	6345.5	6260.3	6246.9	6206.6	6242.4	6224.5
20°	6923.6	6972.9	6986.3	6865.3	6659.2	6565.1	6542.7	6511.3	6551.6	6538.2
22.5°	7443.4	7367.2	7425.5	7214.9	7138.7	6914.6	6833.9	6789.1	6981.8	6932.5
25°	7775.0	7855.7	7797.4	7725.7	7555.4	7277.6	7219.3	7317.9	7394.1	7340.3
27.5°	8523.4	8442.7	8388.9	8173.8	8061.8	7770.5	7703.3	7667.5	7685.4	7716.8
30°	9092.5	9137.3	9016.3	8864.0	8581.6	8285.9	8129.0	8097.7	8034.9	7981.1
32.5°	9903.6	9836.4	9764.7	9666.1	9424.1	9034.2	8881.9	8765.4	8577.2	8326.2
35°	10293.5	10486.2	10432.4	10168.0	9984.3	9836.4	9791.6	9612.3	9455.5	9061.1
37.5°	10943.3	11023.9	10947.8	10862.6	10777.5	10620.6	10566.8	10616.1	10306.9	9657.1
40°	11364.5	11534.8	11691.6	11454.1	11436.2	11467.6	11136.0	11077.7	10441.4	10100.8
42.5°	12224.9	12296.6	12328.0	12319.0	12422.1	12422.1	11790.2	11664.8	11212.1	10934.3
45°	13363.2	13421.4	13533.4	13614.1	13497.6	13555.9	12655.1	12605.8	12202.5	12148.7
47.5°	14349.0	14488.0	14738.9	14976.4	15128.8	14931.6	13945.7	13596.2	13493.1	13815.8
50°	15209.4	15043.6	15630.7	15872.7	16540.4	16867.5	15370.8	15231.9	15066.0	15684.5
52.5°	15294.6	15518.7	16347.7	16831.7	18207.4	18812.4	17118.5	17060.2	16858.6	17571.1
55°	15904.0	15877.2	16710.7	17759.3	19395.0	20412.2	19395.0	19359.1	18919.9	19596.6
57.5°	15801.0	16074.3	16733.1	18198.5	20466.0	22128.5	22034.4	21788.0	21174.0	21725.2
60°	15451.4	15523.1	16325.3	18185.0	21088.9	23889.7	24884.5	24933.8	23679.1	24118.2
62.5°	13470.7	13636.5	14653.8	16755.5	20645.2	25104.1	27667.4	27492.6	26488.8	25986.9
65°	10714.7	10548.9	11606.5	13878.5	17884.8	24243.7	28886.3	29536.1	27958.7	27040.0
67.5°	6569.5	6529.2	7546.5	9549.6	13381.1	20631.8	27913.9	28420.2	27550.9	26815.9
70°	3383.4	3280.3	3916.6	5328.2	8411.4	15137.7	24293.0	24790.4	25619.4	24051.0
72.5°	1577.4	1555.0	1895.6	2621.5	4284.1	8899.8	18812.4	19170.9	20918.6	20277.8
75°	927.6	941.1	1133.8	1371.3	2088.3	4194.5	12484.8	13179.4	15075.0	14613.4
77.5°	694.6	694.6	806.6	954.5	1218.9	1622.2	6161.8	7080.4	8814.7	7927.4
80°	510.9	519.8	618.4	717.0	847.0	838.0	2446.8	2868.0	4042.1	3455.1
82.5°	398.8	412.3	479.5	533.3	596.0	506.4	1003.8	1080.0	1662.6	1322.0
85°	277.8	286.8	376.4	363.0	363.0	282.3	416.8	439.2	658.7	627.4
87.5°	67.2	76.2	183.7	201.7	152.4	85.1	130.0	147.9	237.5	273.4
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°
5140.0	0°	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0
5229.6	2.5°	5162.4	5180.4	5256.5	5216.2	5238.6	5144.5	5220.7	5157.9	5211.7	5184.8
5270.0	5°	5305.8	5265.5	5310.3	5278.9	5278.9	5314.8	5368.6	5328.2	5408.9	5373.0
5301.3	7.5°	5364.1	5368.6	5395.5	5399.9	5377.5	5489.6	5494.0	5480.6	5556.8	5538.9
5516.4	10°	5507.5	5512.0	5561.3	5588.1	5565.7	5606.1	5561.3	5525.4	5520.9	5503.0
5686.7	12.5°	5736.0	5780.8	5771.9	5794.3	5798.8	5628.5	5525.4	5350.6	5328.2	5350.6
5937.7	15°	5946.7	5928.7	5937.7	5982.5	5794.3	5520.9	5337.2	5189.3	5198.3	5202.8
6264.8	17.5°	6197.6	6211.0	6224.5	6018.4	5673.3	5350.6	5189.3	5189.3	5144.5	5162.4
6493.4	20°	6484.4	6430.6	6314.1	6022.8	5462.7	5153.5	5104.2	5104.2	5050.4	5014.5
6739.8	22.5°	6708.5	6600.9	6426.1	5883.9	5274.5	5077.3	4956.3	4871.1	4808.4	4736.7
7013.2	25°	6851.9	6793.6	6453.0	5740.5	5135.5	4875.6	4696.4	4566.4	4485.8	4391.6
7228.3	27.5°	7071.5	6959.4	6529.2	5574.7	4983.2	4674.0	4396.1	4194.5	4042.1	3943.5
7555.4	30°	7367.2	7205.9	6475.4	5337.2	4750.2	4324.4	3997.3	3737.4	3562.6	3482.0
7864.6	32.5°	7609.2	7398.6	6430.6	5122.1	4490.2	3970.4	3535.7	3271.3	3172.7	3069.7
8384.5	35°	8070.8	7654.0	6399.3	5001.1	4257.2	3616.4	3159.3	2930.8	2805.3	2652.9
8693.7	37.5°	8424.8	8097.7	6323.1	4750.2	3957.0	3271.3	2872.5	2666.4	2478.1	2316.8
9410.7	40°	8980.5	8716.1	6327.6	4396.1	3602.9	2975.6	2648.4	2433.3	2195.8	2056.9
10472.7	42.5°	10024.6	9325.5	6354.4	4113.8	3204.1	2733.6	2446.8	2191.3	1953.8	1837.3
11682.7	45°	11306.3	10163.5	6188.6	3858.4	2796.3	2505.0	2204.8	1949.4	1797.0	1711.8
13327.3	47.5°	12780.6	10983.6	5964.6	3378.9	2455.7	2263.0	1980.7	1832.8	1720.8	1671.5
15447.0	50°	14429.7	12157.7	5901.8	2939.7	2191.3	2056.9	1873.2	1761.1	1685.0	1626.7
17835.5	52.5°	16553.8	13524.5	5776.4	2487.1	1962.8	1891.1	1832.8	1756.7	1689.4	1640.1
20062.7	55°	18583.8	15039.2	5641.9	2115.2	1801.5	1810.4	1841.8	1774.6	1716.3	1640.1
22558.7	57.5°	20869.3	16585.2	5144.5	1841.8	1680.5	1770.1	1832.8	1756.7	1698.4	1640.1
25113.1	60°	22280.9	17454.6	4172.1	1604.3	1572.9	1693.9	1779.1	1698.4	1635.7	1658.1
26287.2	62.5°	22854.5	16997.5	3145.9	1456.4	1496.7	1590.9	1693.9	1662.6	1617.7	1702.9
26273.7	65°	21877.6	15944.4	2249.6	1330.9	1393.7	1487.8	1617.7	1653.6	1667.0	1832.8
24131.7	67.5°	19466.7	13883.0	1653.6	1227.9	1286.1	1425.0	1671.5	1729.8	1720.8	1926.9
20250.9	70°	15576.9	10858.1	1290.6	1142.7	1245.8	1474.3	1747.7	1747.7	1685.0	1926.9
15447.0	72.5°	11333.1	7654.0	1111.4	1044.1	1142.7	1353.3	1738.7	1734.3	1653.6	1761.1
9836.4	75°	6860.8	4454.4	981.4	945.5	981.4	1160.7	1662.6	1635.7	1523.6	1514.7
4732.2	77.5°	3419.2	2240.6	802.1	838.0	855.9	972.4	1460.9	1501.2	1348.9	1313.0
1868.7	80°	1443.0	976.9	667.7	721.5	721.5	820.1	1214.4	1241.3	1120.3	1053.1
739.4	82.5°	658.7	560.2	569.1	627.4	587.0	636.3	963.5	994.8	909.7	797.7
313.7	85°	277.8	318.2	434.7	492.9	434.7	412.3	663.2	699.1	591.5	492.9
134.4	87.5°	125.5	174.8	273.4	358.5	219.6	192.7	354.0	367.5	295.8	219.6
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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<u>180°</u>
5140.0
5135.5
5323.8
5512.0
5503.0
5359.6
5265.5
5166.9
4960.8
4696.4
4409.6
3988.3
3526.8
3065.2
2639.5
2321.3
2070.3
1846.3
1729.8
1662.6
1635.7
1635.7
1635.7
1635.7
1640.1
1680.5
1832.8
1940.4
1886.6
1698.4
1496.7
1290.6
1030.7
779.7
497.4
206.1
0.0

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