

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: P477955

Luminaire Tested: **IFLD-L-SA8D-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477955  
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-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

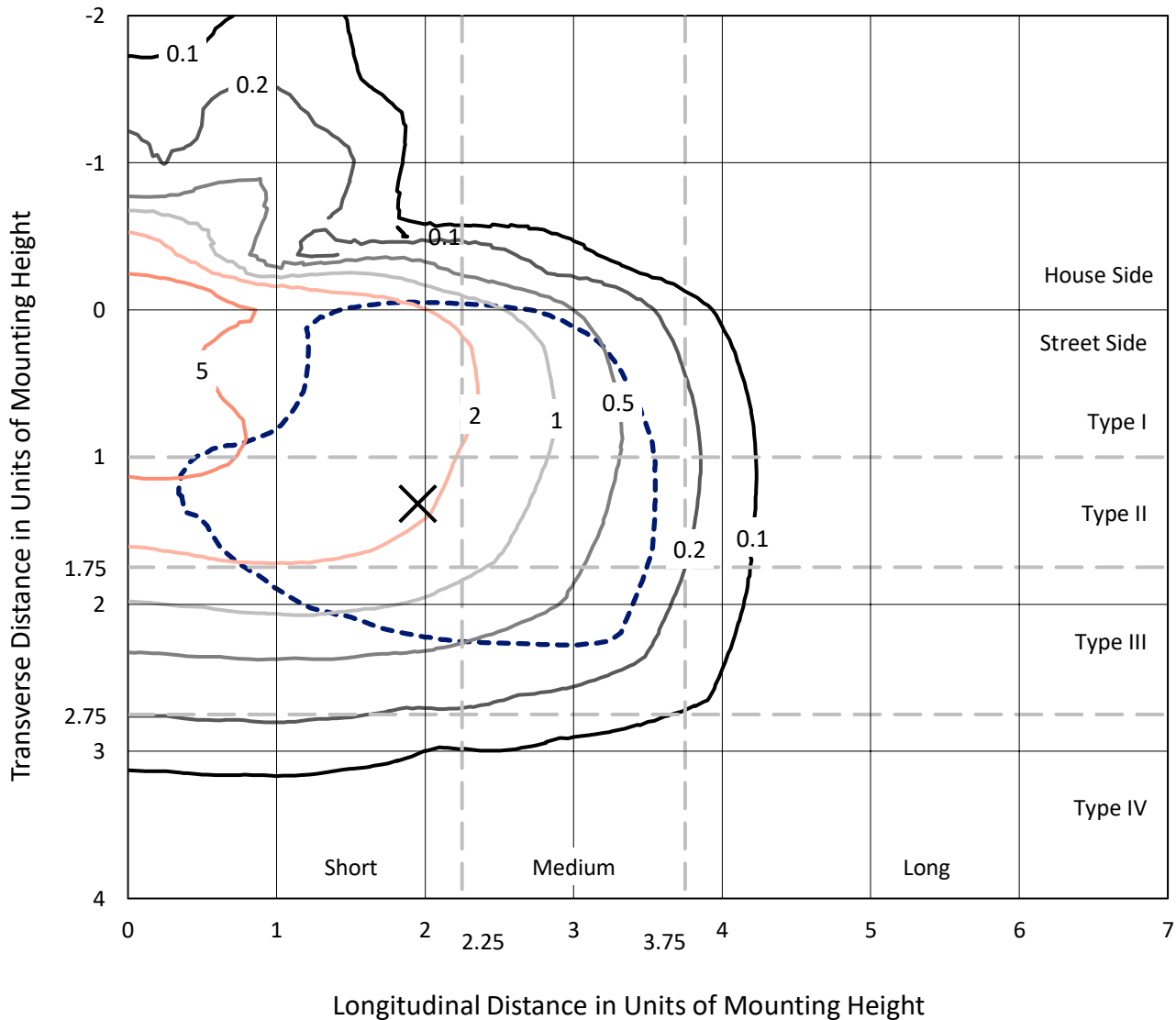
Lumens per Lamp: N/A  
Luminaire Lumens: 43512.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

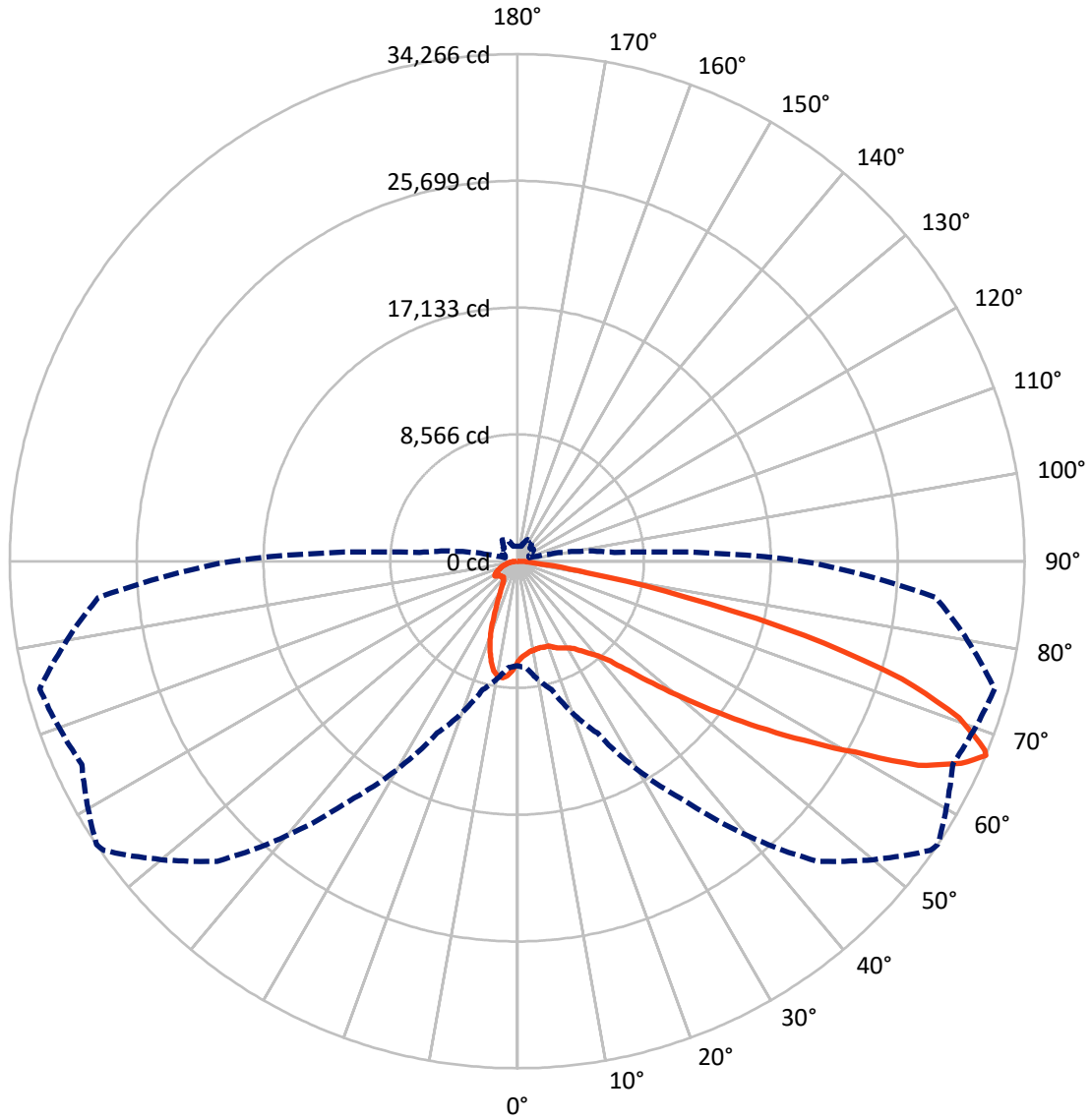
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6888.5	0.0	6888.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	36624.4	0.0	36624.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	43512.9	0.0	43512.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.3	1.5
10°-20°	1779.4	4.1
20°-30°	2790.7	6.4
30°-40°	3983.7	9.2
40°-50°	6012.6	13.8
50°-60°	9571.0	22.0
60°-70°	12235.7	28.1
70°-80°	5965.7	13.7
80°-90°	521.9	1.2
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°	43512.9	100.0
0°-180°	43512.9	100.0

**Coefficient of Utilization**

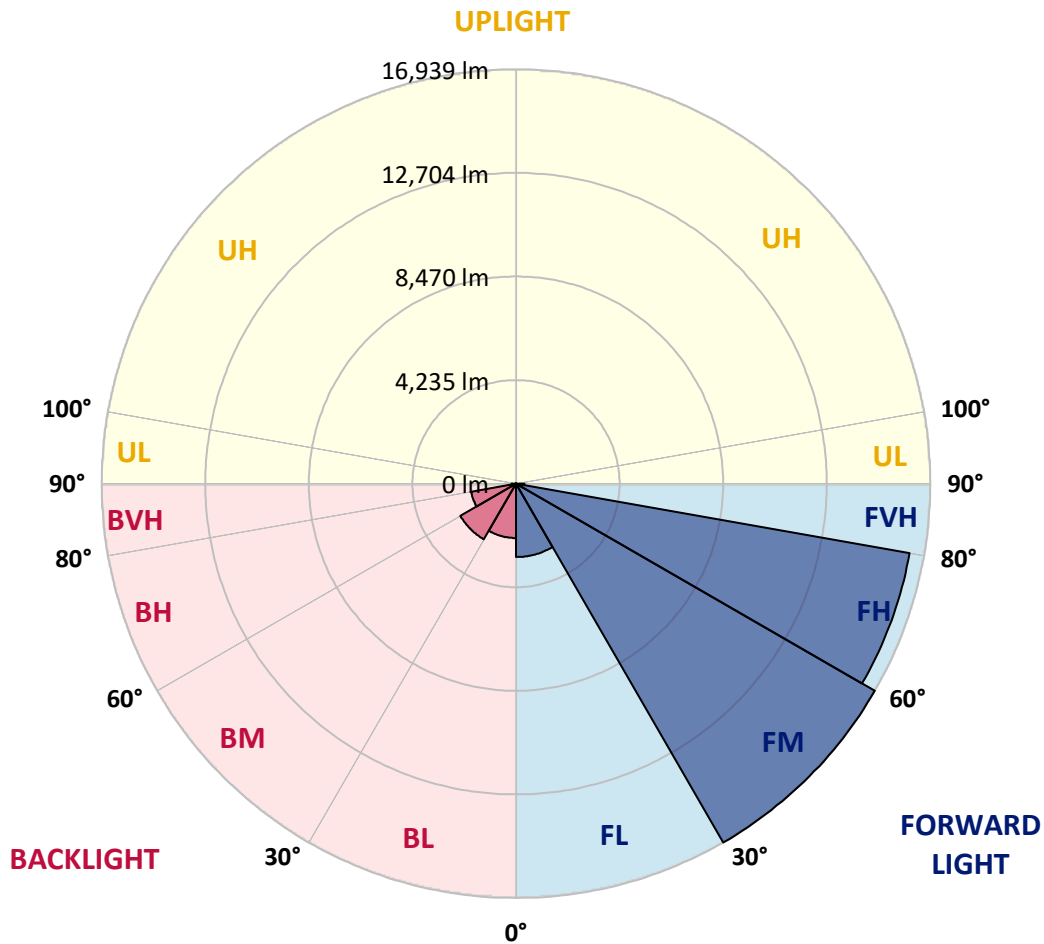


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2998.5	6.9			
FM (30°-60°)	16939.2	38.9			
FH (60°-80°)	16340.1	37.6			G5
FVH (80°-90°)	346.6	0.8			G3/500
BL (0°-30°)	2223.8	5.1	B3/2500		
BM (30°-60°)	2628.0	6.0	B3/5000		
BH (60°-80°)	1861.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	175.3	0.4			G2/225
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°	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5
2.5°	6219.5	6194.0	6224.6	6194.0	6331.7	6413.3	6438.9	6474.6	6602.1	6724.6
5°	5959.3	5847.0	5969.5	6010.3	6020.5	6158.2	6301.1	6326.6	6392.9	6591.9
7.5°	5525.6	5653.1	5607.2	5729.7	5857.2	5995.0	6229.7	6163.3	6408.2	6597.0
10°	5433.7	5443.9	5495.0	5540.9	5653.1	5831.7	6158.2	6117.4	6367.4	6770.5
12.5°	5525.6	5525.6	5510.3	5474.6	5602.1	5775.6	6035.8	6056.2	6449.1	6821.5
15°	5847.0	5908.2	5745.0	5770.5	5719.5	5775.6	6005.2	6051.1	6479.7	6862.3
17.5°	6632.7	6612.3	6418.4	6148.0	5923.5	5887.8	6046.0	6097.0	6449.1	6979.7
20°	7398.0	7357.2	7020.5	6739.9	6296.0	6086.8	6112.3	6117.4	6500.1	7056.2
22.5°	8250.1	8357.2	7989.9	7418.5	6867.4	6347.0	6245.0	6326.6	6617.4	7097.0
25°	9586.9	9357.3	9040.9	8290.9	7403.2	6750.1	6464.4	6505.2	6729.7	7199.1
27.5°	10551.1	10459.3	9964.4	9357.3	8153.2	7066.4	6581.7	6658.2	6933.8	7194.0
30°	11479.7	11479.7	11178.7	10270.5	8944.0	7597.0	6831.7	6796.0	6836.8	7183.8
32.5°	12566.5	12418.5	11984.8	11382.8	9938.9	8081.7	7030.7	7040.9	7040.9	7372.5
35°	13137.9	13377.7	13086.9	12107.3	10699.1	8887.9	7510.3	7433.8	7377.6	7581.7
37.5°	13974.7	14117.5	13811.4	13234.9	11643.0	9540.9	7933.8	7872.5	7546.0	7745.0
40°	14479.8	14454.3	14444.1	14178.7	12893.0	10311.3	8556.2	8398.1	7959.3	8321.5
42.5°	14765.5	14714.5	15342.0	15178.8	14071.6	11444.0	9336.8	9250.1	8765.4	9347.1
45°	15086.9	15464.5	15979.8	16439.0	15444.1	13035.9	10658.3	10535.8	10102.2	10842.0
47.5°	15367.5	15831.8	16490.0	16979.8	16683.9	14765.5	12291.0	12321.6	12035.9	12796.1
50°	15836.9	15882.8	16775.7	17765.5	17995.1	16362.4	14484.9	14433.8	14306.3	15372.6
52.5°	15694.1	15831.8	16959.4	18224.7	18602.3	18051.2	16842.0	16995.1	16826.7	18168.6
55°	13367.5	13780.8	16847.1	18709.4	20041.1	19959.4	19872.7	19770.6	19760.4	21311.5
57.5°	12311.4	12648.1	14842.0	19245.1	21581.9	22183.9	22745.2	22857.4	22852.3	24724.8
60°	11617.5	11964.4	14030.8	18954.3	22893.1	25097.2	26173.8	26189.1	26158.5	28372.8
62.5°	10260.3	10597.1	12627.7	17362.5	23255.4	27786.0	30184.0	30383.0	28979.9	31515.7
65°	8627.7	8903.2	10694.0	14928.8	22291.1	29495.3	33199.4	32964.7	31357.5	33311.6
67°	7056.2	7239.9	8984.8	12816.5	19770.6	28673.8	34071.8	34265.7	32454.5	33388.2
67.5°	6607.2	6775.6	8423.6	12097.1	18811.5	28051.4	34102.5	34071.8	32474.9	33403.5
70°	4586.8	4658.2	5739.9	8321.5	13857.3	23699.3	31612.6	31684.1	31112.6	31592.2
72.5°	3040.9	3148.0	3836.8	5245.0	8168.5	17245.1	26423.8	27189.1	26826.9	25903.4
75°	1959.2	2020.4	2510.2	3122.5	4020.5	9821.5	19520.6	20030.9	19199.2	16020.6
77.5°	1097.0	1163.3	1515.3	1898.0	1959.2	4086.8	10964.4	11597.1	9826.6	6806.2
80°	683.7	770.4	1142.9	1127.6	933.7	1500.0	4520.5	4841.9	3928.6	2341.9
82.5°	515.3	581.6	882.7	790.8	525.5	668.4	1693.9	1816.3	1438.8	903.1
85°	352.0	443.9	637.8	489.8	275.5	321.4	673.5	724.5	658.2	438.8
87.5°	127.6	188.8	331.6	244.9	122.5	96.9	219.4	244.9	234.7	199.0
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°
6770.5	0°	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5	6770.5
6831.7	2.5°	6928.7	7000.1	7035.8	7245.0	7331.7	7316.4	7336.8	7367.4	7398.0	7438.9
6918.5	5°	6984.8	7204.2	7321.5	7566.4	7729.7	7658.3	7750.1	7724.6	7688.9	7683.8
7076.6	7.5°	7168.5	7449.1	7801.1	7867.4	7938.9	7760.3	7607.2	7398.0	7347.0	7168.5
7209.3	10°	7495.0	7724.6	8153.2	8178.7	7862.3	7403.2	7061.3	6627.6	6622.5	6362.3
7413.4	12.5°	7806.2	8066.4	8413.4	8265.4	7510.3	6882.7	6326.6	5852.1	5653.1	5520.5
7535.8	15°	8000.1	8428.7	8612.3	7974.6	6892.9	6046.0	5326.6	4816.4	4612.3	4515.4
7688.9	17.5°	8178.7	8775.6	8694.0	7464.4	6132.7	5183.7	4326.6	3882.7	3826.6	3755.1
7933.8	20°	8423.6	8903.2	8403.2	6801.1	5270.5	4071.5	3525.6	3311.3	3362.3	3392.9
7959.3	22.5°	8653.2	8969.5	8035.8	6076.6	4163.3	3224.5	2954.1	3000.0	3076.6	3178.6
8020.5	25°	8755.2	9076.6	7540.9	5076.6	3168.4	2714.3	2653.1	2729.6	2857.2	2862.3
8107.2	27.5°	8821.5	9000.1	6944.0	4102.1	2505.1	2372.5	2464.3	2520.4	2535.7	2597.0
8290.9	30°	8938.9	8841.9	6188.9	2933.7	2102.1	2107.2	2224.5	2224.5	2224.5	2270.4
8474.6	32.5°	9143.0	8734.8	5306.2	2142.9	1811.2	1974.5	1943.9	1933.7	1913.3	1857.2
8709.3	35°	9270.5	8444.0	4188.8	1586.8	1627.6	1811.2	1801.0	1642.9	1377.6	1244.9
9306.2	37.5°	9535.8	8296.0	3081.7	1224.5	1520.4	1729.6	1673.5	1290.8	1000.0	872.5
10046.0	40°	10107.3	8199.1	2132.7	1071.4	1449.0	1688.8	1494.9	1102.1	765.3	540.8
11188.9	42.5°	10806.3	8204.2	1449.0	1010.2	1454.1	1775.5	1438.8	943.9	540.8	433.7
12714.4	45°	11745.0	8127.6	994.9	1010.2	1545.9	1918.4	1474.5	857.2	525.5	551.0
14627.7	47.5°	12755.3	8194.0	739.8	918.4	1561.2	1923.5	1347.0	841.8	505.1	637.8
16709.4	50°	13933.8	8260.3	612.3	846.9	1566.3	1862.3	1239.8	821.4	525.5	673.5
19097.2	52.5°	15148.1	8469.5	520.4	801.0	1627.6	1836.8	1239.8	852.1	525.5	586.7
22138.0	55°	16959.4	9005.2	750.0	1000.0	1852.1	2005.1	1525.5	1193.9	734.7	755.1
25051.3	57.5°	18959.4	9556.2	836.7	1051.0	1903.1	1806.1	1642.9	1316.3	775.5	780.6
27316.7	60°	20275.8	9576.6	831.6	1025.5	1780.6	1561.2	1607.2	1387.8	790.8	668.4
28719.7	62.5°	20801.3	8954.2	867.4	1025.5	1658.2	1459.2	1648.0	1494.9	816.3	836.7
29117.7	65°	20204.3	7668.5	836.7	918.4	1459.2	1306.1	1658.2	1515.3	892.9	841.8
28403.4	67°	19270.6	6607.2	852.1	872.5	1357.2	1239.8	1744.9	1591.9	1035.7	1010.2
28030.9	67.5°	19005.3	6326.6	846.9	846.9	1321.4	1219.4	1765.3	1591.9	1056.1	1045.9
24740.1	70°	16750.2	5127.6	867.4	836.7	1168.4	1158.2	1877.6	1678.6	1214.3	1224.5
18173.7	72.5°	12750.2	3887.8	862.3	836.7	1015.3	1107.2	1892.9	1734.7	1321.4	1224.5
10178.7	75°	7245.0	2326.6	760.2	729.6	801.0	964.3	1770.4	1653.1	1285.7	1097.0
4066.4	77.5°	2994.9	1199.0	699.0	658.2	663.3	785.7	1474.5	1540.8	1224.5	933.7
1357.2	80°	1117.4	719.4	561.2	525.5	510.2	576.5	1051.0	1229.6	1045.9	765.3
596.9	82.5°	581.6	449.0	382.7	382.7	346.9	367.4	566.3	816.3	790.8	525.5
239.8	85°	295.9	255.1	219.4	214.3	193.9	173.5	285.7	484.7	454.1	290.8
107.1	87.5°	158.2	142.9	91.8	86.7	71.4	45.9	51.0	96.9	158.2	127.6
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>
6770.5
7479.7
7729.7
7229.7
6352.1
5489.9
4495.0
3790.9
3357.2
3122.5
2913.3
2653.1
2321.5
1826.6
1306.1
867.4
525.5
423.5
561.2
709.2
780.6
602.0
795.9
755.1
688.8
846.9
826.5
994.9
1025.5
1132.7
1086.7
979.6
882.7
699.0
413.3
239.8
91.8
0.0

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