

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: P477833

Luminaire Tested: **IFLD-L-SA7D-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

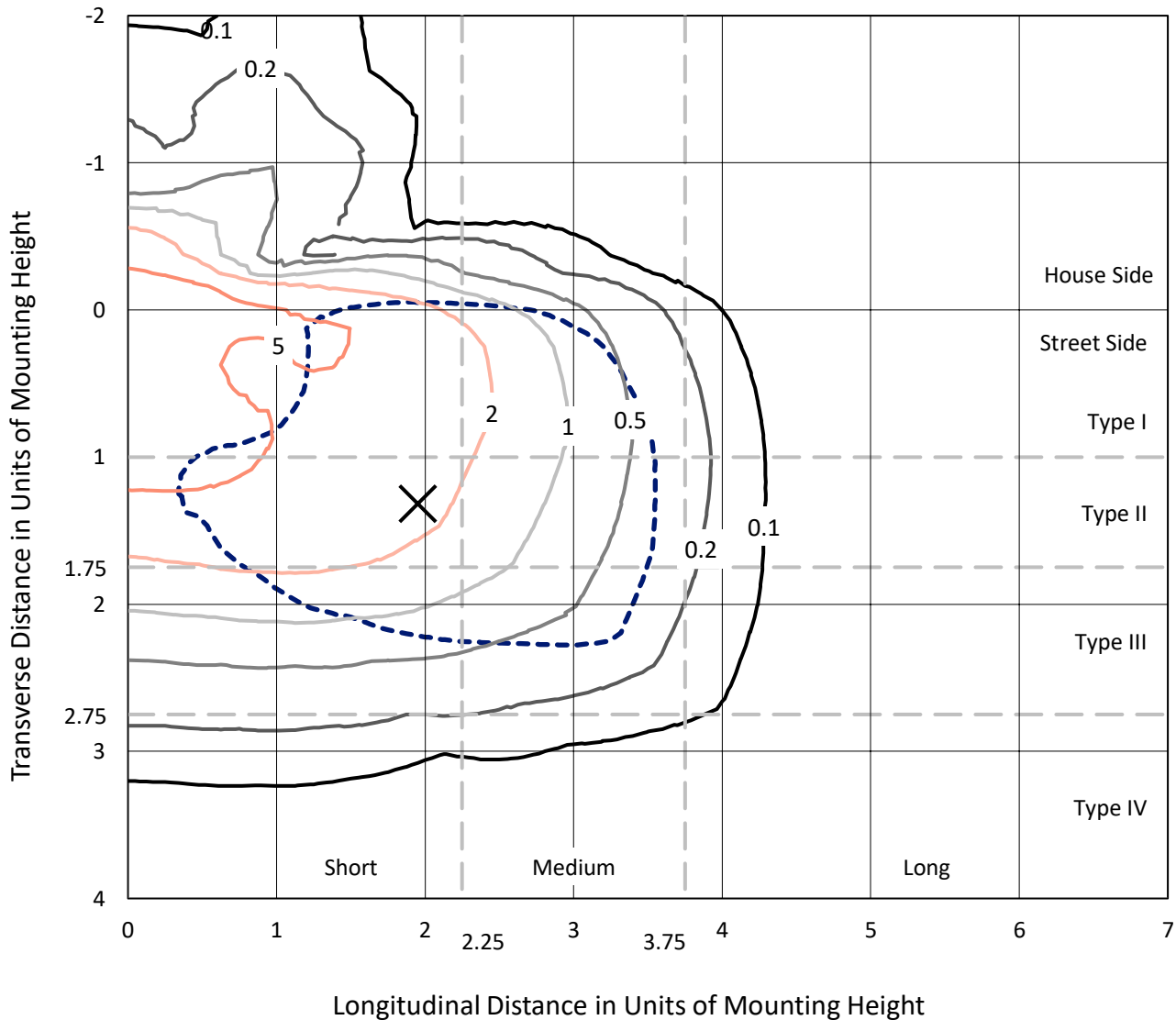
Lumens per Lamp: N/A
Luminaire Lumens: 49012.8 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

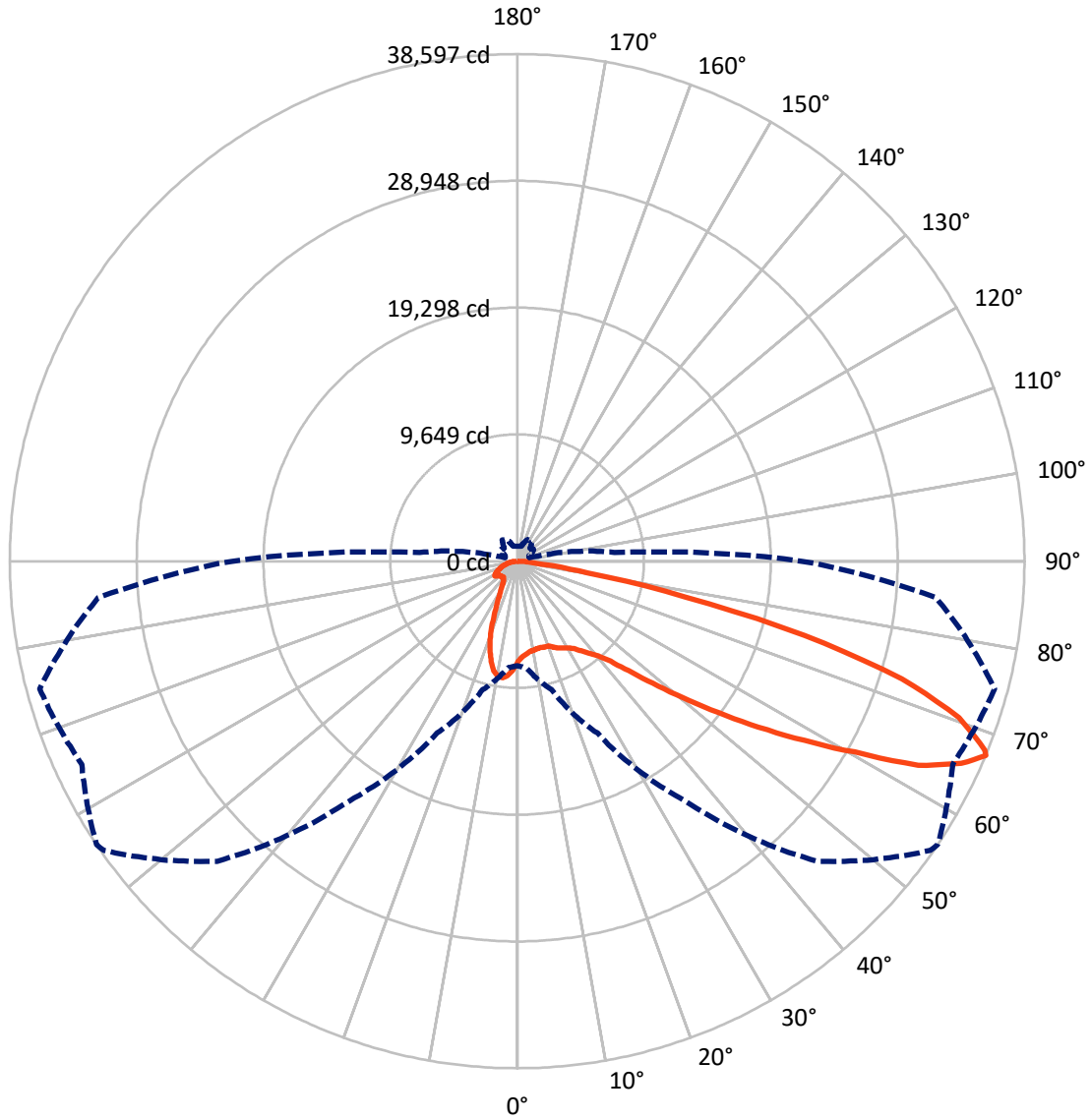
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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
House Side	Lumens	7759.2	0.0	7759.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	41253.6	0.0	41253.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	49012.8	0.0	49012.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.7	1.5
10°-20°	2004.3	4.1
20°-30°	3143.4	6.4
30°-40°	4487.2	9.2
40°-50°	6772.5	13.8
50°-60°	10780.7	22.0
60°-70°	13782.3	28.1
70°-80°	6719.8	13.7
80°-90°	587.8	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°	49012.8	100.0
0°-180°	49012.8	100.0

Coefficient of Utilization

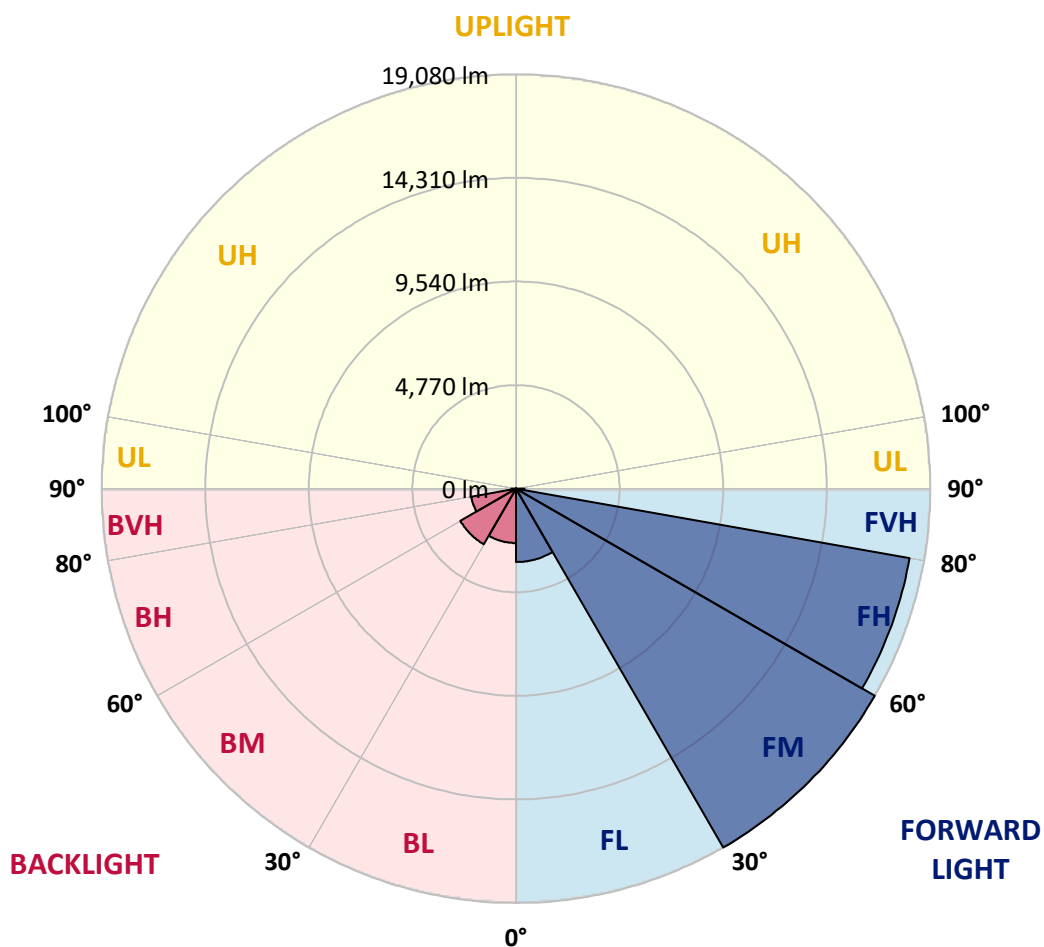


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3377.5	6.9			
FM (30°-60°)	19080.2	38.9			
FH (60°-80°)	18405.4	37.6			G5
FVH (80°-90°)	390.4	0.8			G3/500
BL (0°-30°)	2504.9	5.1	B4/5000		
BM (30°-60°)	2960.2	6.0	B3/5000		
BH (60°-80°)	2096.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	197.4	0.4			G2/225
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°	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3
2.5°	7005.6	6976.9	7011.3	6976.9	7132.0	7224.0	7252.7	7292.9	7436.6	7574.5
5°	6712.5	6586.1	6724.0	6770.0	6781.5	6936.6	7097.5	7126.3	7201.0	7425.1
7.5°	6224.0	6367.7	6315.9	6453.9	6597.5	6752.7	7017.1	6942.4	7218.2	7430.9
10°	6120.5	6132.0	6189.5	6241.2	6367.7	6568.8	6936.6	6890.6	7172.2	7626.3
12.5°	6224.0	6224.0	6206.8	6166.5	6310.2	6505.6	6798.7	6821.7	7264.2	7683.7
15°	6586.1	6655.0	6471.1	6499.9	6442.4	6505.6	6764.2	6815.9	7298.7	7729.7
17.5°	7471.1	7448.1	7229.7	6925.1	6672.3	6632.0	6810.2	6867.7	7264.2	7861.9
20°	8333.1	8287.2	7907.9	7591.8	7091.8	6856.2	6884.9	6890.6	7321.7	7948.1
22.5°	9292.9	9413.6	8999.8	8356.1	7735.5	7149.3	7034.3	7126.3	7453.9	7994.1
25°	10798.6	10540.0	10183.7	9338.9	8338.9	7603.3	7281.4	7327.4	7580.3	8109.0
27.5°	11884.8	11781.3	11223.9	10540.0	9183.7	7959.6	7413.6	7499.8	7810.2	8103.3
30°	12930.7	12930.7	12591.7	11568.7	10074.5	8557.3	7695.2	7655.0	7701.0	8091.8
32.5°	14154.8	13988.2	13499.7	12821.5	11195.1	9103.2	7919.4	7930.9	7930.9	8304.4
35°	14798.5	15068.6	14741.0	13637.6	12051.4	10011.3	8459.6	8373.4	8310.2	8540.0
37.5°	15741.0	15901.9	15557.1	14907.7	13114.6	10746.9	8936.6	8867.6	8499.8	8723.9
40°	16310.0	16281.2	16269.7	15970.9	14522.7	11614.7	9637.7	9459.6	8965.3	9373.3
42.5°	16631.8	16574.3	17281.2	17097.3	15850.2	12890.5	10517.0	10419.3	9873.3	10528.5
45°	16993.9	17419.1	17999.6	18516.8	17396.2	14683.6	12005.5	11867.5	11379.0	12212.4
47.5°	17309.9	17832.9	18574.3	19126.0	18792.7	16631.8	13844.5	13879.0	13557.2	14413.5
50°	17838.7	17890.4	18896.1	20011.0	20269.6	18430.6	16315.7	16258.2	16114.6	17315.7
52.5°	17677.8	17832.9	19103.0	20528.3	20953.5	20332.9	18970.8	19143.2	18953.6	20465.0
55°	15057.1	15522.6	18976.6	21074.2	22574.2	22482.2	22384.5	22269.6	22258.1	24005.2
57.5°	13867.5	14246.8	16718.0	21677.7	24309.8	24987.9	25620.1	25746.5	25740.8	27849.9
60°	13085.9	13476.7	15804.2	21350.1	25786.8	28269.5	29482.1	29499.3	29464.8	31959.0
62.5°	11557.2	11936.5	14223.8	19557.0	26194.8	31298.1	33999.2	34223.3	32642.9	35499.2
65°	9718.2	10028.5	12045.7	16815.7	25108.6	33223.4	37395.7	37131.3	35321.0	37522.1
67°	7948.1	8155.0	10120.5	14436.4	22269.6	32298.1	38378.4	38596.8	36556.6	37608.3
67.5°	7442.4	7632.0	9488.3	13626.1	21189.2	31597.0	38412.9	38378.4	36579.6	37625.6
70°	5166.5	5247.0	6465.4	9373.3	15608.8	26694.8	35608.4	35688.8	35045.2	35585.4
72.5°	3425.2	3545.9	4321.7	5907.9	9200.9	19424.8	29763.7	30625.7	30217.7	29177.5
75°	2206.8	2275.8	2827.5	3517.2	4528.6	11063.0	21988.0	22562.7	21625.9	18045.6
77.5°	1235.6	1310.3	1706.9	2137.9	2206.8	4603.3	12350.3	13062.9	11068.7	7666.5
80°	770.1	867.8	1287.3	1270.1	1051.7	1689.6	5091.8	5453.9	4425.2	2637.9
82.5°	580.4	655.2	994.2	890.8	591.9	752.9	1908.0	2045.9	1620.7	1017.2
85°	396.5	500.0	718.4	551.7	310.3	362.1	758.6	816.1	741.4	494.2
87.5°	143.7	212.6	373.6	275.9	137.9	109.2	247.1	275.9	264.4	224.1
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°
7626.3	0°	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3	7626.3
7695.2	2.5°	7804.4	7884.9	7925.1	8160.7	8258.4	8241.2	8264.2	8298.7	8333.1	8379.1
7792.9	5°	7867.6	8114.8	8246.9	8522.8	8706.7	8626.2	8729.7	8700.9	8660.7	8655.0
7971.1	7.5°	8074.5	8390.6	8787.2	8861.9	8942.3	8741.2	8568.8	8333.1	8275.7	8074.5
8120.5	10°	8442.3	8700.9	9183.7	9212.4	8856.1	8338.9	7953.8	7465.3	7459.6	7166.5
8350.4	12.5°	8792.9	9086.0	9476.8	9310.1	8459.6	7752.7	7126.3	6591.8	6367.7	6218.2
8488.3	15°	9011.3	9494.0	9700.9	8982.6	7764.2	6810.2	5999.9	5425.2	5195.3	5086.1
8660.7	17.5°	9212.4	9884.8	9792.9	8407.9	6907.9	5838.9	4873.5	4373.5	4310.2	4229.8
8936.6	20°	9488.3	10028.5	9465.3	7660.7	5936.6	4586.1	3971.2	3729.8	3787.3	3821.8
8965.3	22.5°	9746.9	10103.2	9051.5	6844.7	4689.5	3632.1	3327.5	3379.2	3465.4	3580.4
9034.3	25°	9861.8	10223.9	8494.1	5718.3	3568.9	3057.4	2988.4	3074.6	3218.3	3224.1
9132.0	27.5°	9936.6	10137.7	7821.7	4620.6	2821.8	2672.4	2775.8	2839.0	2856.3	2925.2
9338.9	30°	10068.7	9959.5	6971.1	3304.5	2367.8	2373.5	2505.7	2505.7	2505.7	2557.4
9545.8	32.5°	10298.6	9838.9	5976.9	2413.7	2040.2	2224.1	2189.6	2178.1	2155.1	2091.9
9810.1	35°	10442.3	9511.3	4718.3	1787.3	1833.3	2040.2	2028.7	1850.5	1551.7	1402.3
10482.5	37.5°	10741.1	9344.6	3471.2	1379.3	1712.6	1948.2	1885.0	1454.0	1126.4	982.7
11315.8	40°	11384.8	9235.4	2402.2	1206.9	1632.1	1902.3	1683.9	1241.4	862.0	609.2
12603.2	42.5°	12172.1	9241.2	1632.1	1137.9	1637.9	2000.0	1620.7	1063.2	609.2	488.5
14321.5	45°	13229.6	9155.0	1120.7	1137.9	1741.3	2160.9	1660.9	965.5	591.9	620.7
16476.6	47.5°	14367.5	9229.7	833.3	1034.5	1758.6	2166.6	1517.2	948.3	569.0	718.4
18821.4	50°	15695.0	9304.4	689.6	954.0	1764.3	2097.7	1396.5	925.3	591.9	758.6
21511.0	52.5°	17062.8	9540.0	586.2	902.3	1833.3	2068.9	1396.5	959.7	591.9	660.9
24936.2	55°	19103.0	10143.4	844.8	1126.4	2086.2	2258.6	1718.4	1344.8	827.6	850.6
28217.7	57.5°	21355.8	10764.1	942.5	1183.9	2143.6	2034.4	1850.5	1482.7	873.5	879.3
30769.4	60°	22838.6	10787.1	936.8	1155.1	2005.7	1758.6	1810.3	1563.2	890.8	752.9
32349.8	62.5°	23430.5	10086.0	977.0	1155.1	1867.8	1643.6	1856.3	1683.9	919.5	942.5
32798.1	65°	22758.1	8637.7	942.5	1034.5	1643.6	1471.2	1867.8	1706.9	1005.7	948.3
31993.5	67°	21706.4	7442.4	959.7	982.7	1528.7	1396.5	1965.5	1793.1	1166.6	1137.9
31574.0	67.5°	21407.6	7126.3	954.0	954.0	1488.5	1373.5	1988.5	1793.1	1189.6	1178.1
27867.2	70°	18867.4	5775.7	977.0	942.5	1316.1	1304.6	2114.9	1890.8	1367.8	1379.3
20470.8	72.5°	14361.7	4379.2	971.2	942.5	1143.7	1247.1	2132.1	1954.0	1488.5	1379.3
11465.3	75°	8160.7	2620.6	856.3	821.8	902.3	1086.2	1994.2	1862.0	1448.2	1235.6
4580.4	77.5°	3373.5	1350.5	787.3	741.4	747.1	885.0	1660.9	1735.6	1379.3	1051.7
1528.7	80°	1258.6	810.3	632.2	591.9	574.7	649.4	1183.9	1385.0	1178.1	862.0
672.4	82.5°	655.2	505.7	431.0	431.0	390.8	413.8	637.9	919.5	890.8	591.9
270.1	85°	333.3	287.3	247.1	241.4	218.4	195.4	321.8	546.0	511.5	327.6
120.7	87.5°	178.2	160.9	103.4	97.7	80.5	51.7	57.5	109.2	178.2	143.7
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°
7626.3
8425.1
8706.7
8143.5
7155.0
6183.8
5063.1
4270.0
3781.5
3517.2
3281.5
2988.4
2614.9
2057.4
1471.2
977.0
591.9
477.0
632.2
798.8
879.3
678.1
896.5
850.6
775.8
954.0
931.0
1120.7
1155.1
1275.8
1224.1
1103.4
994.2
787.3
465.5
270.1
103.4
0.0

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