

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: P477759

Luminaire Tested: **IFLD-L-SA8C-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

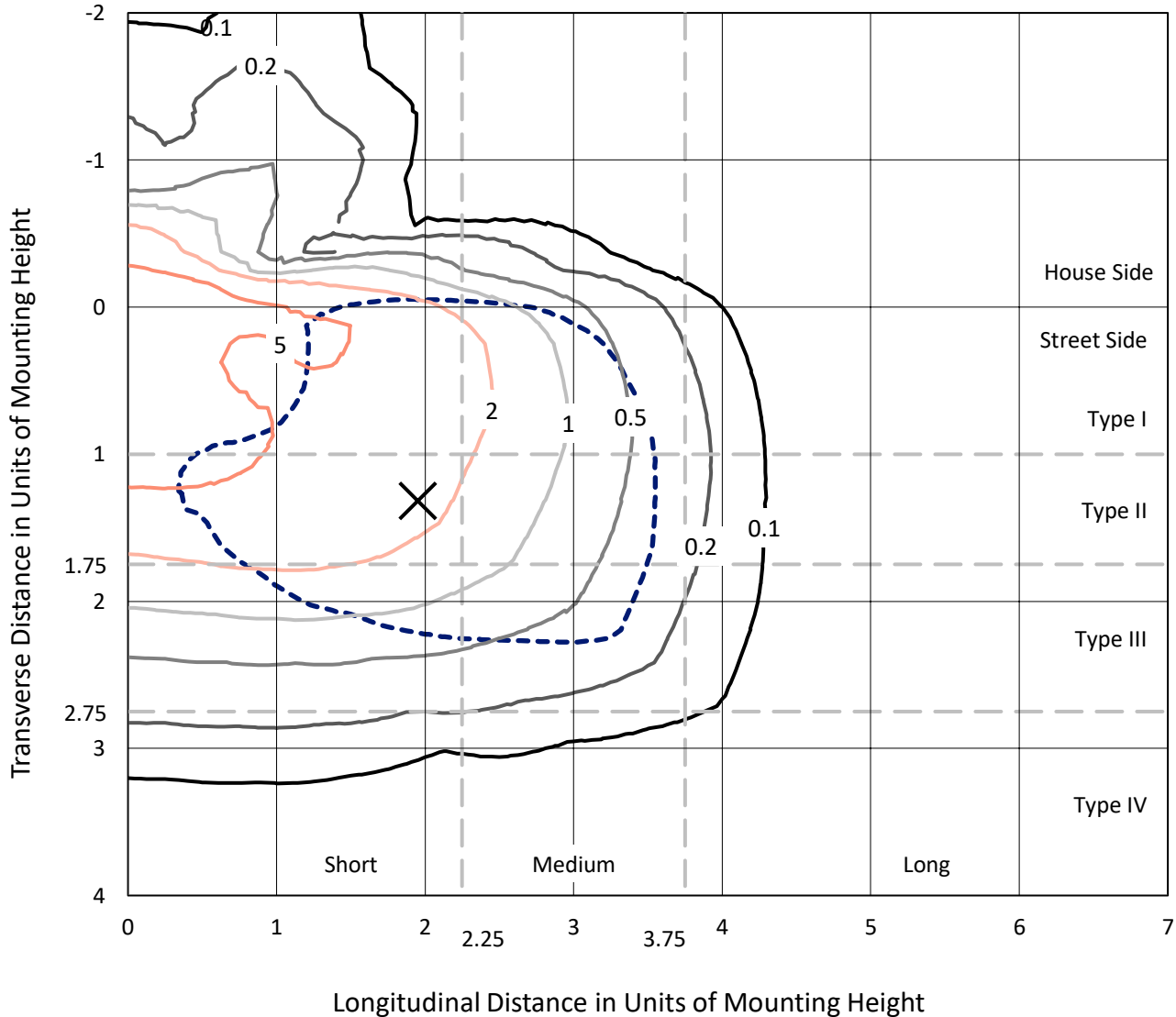
Lumens per Lamp: N/A
Luminaire Lumens: 49085.3 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

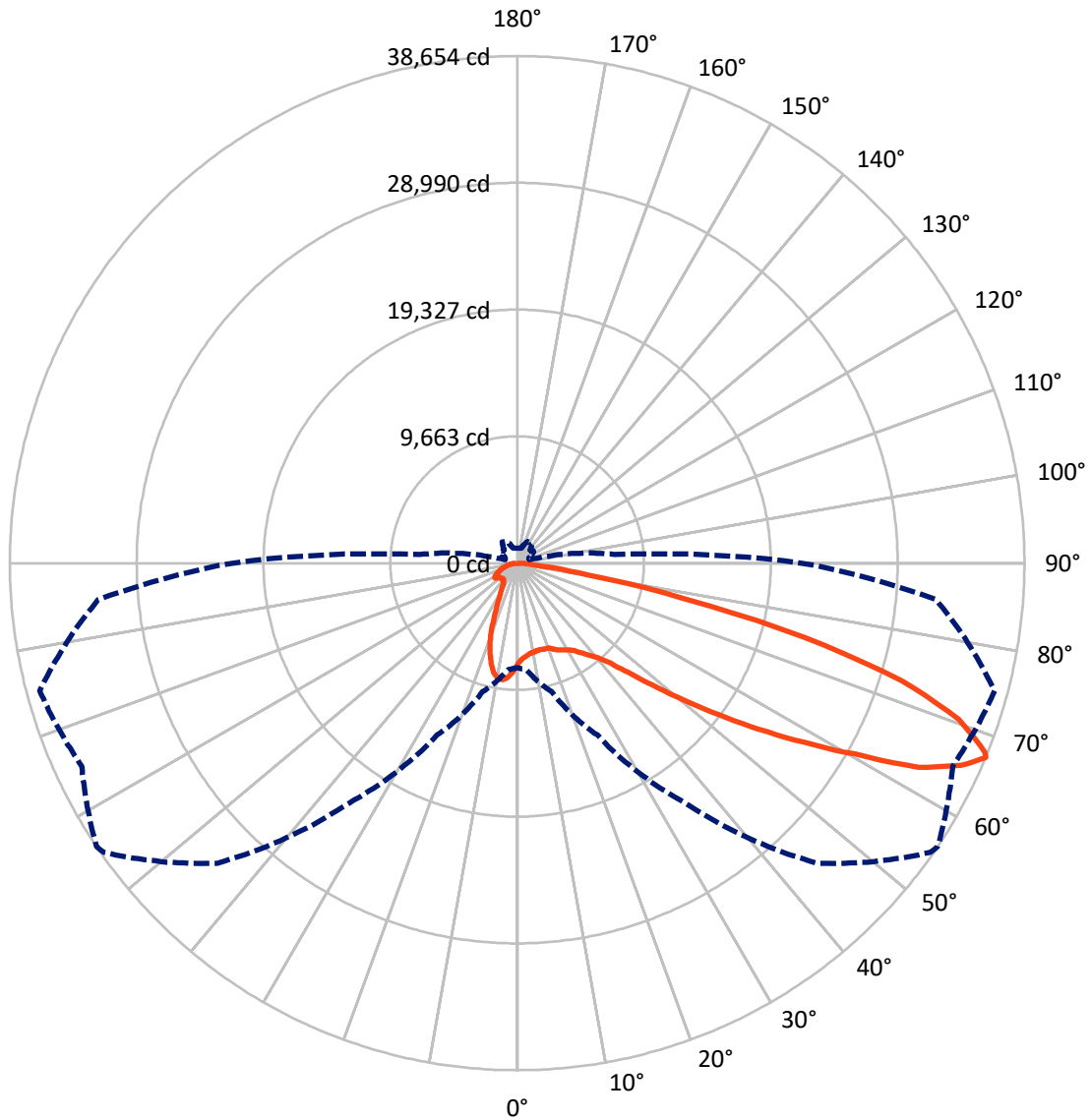
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	7770.7	0.0	7770.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	41314.6	0.0	41314.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	49085.3	0.0	49085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.8	1.5
10°-20°	2007.3	4.1
20°-30°	3148.0	6.4
30°-40°	4493.9	9.2
40°-50°	6782.5	13.8
50°-60°	10796.6	22.0
60°-70°	13802.7	28.1
70°-80°	6729.7	13.7
80°-90°	588.7	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°	49085.3	100.0
0°-180°	49085.3	100.0

Coefficient of Utilization

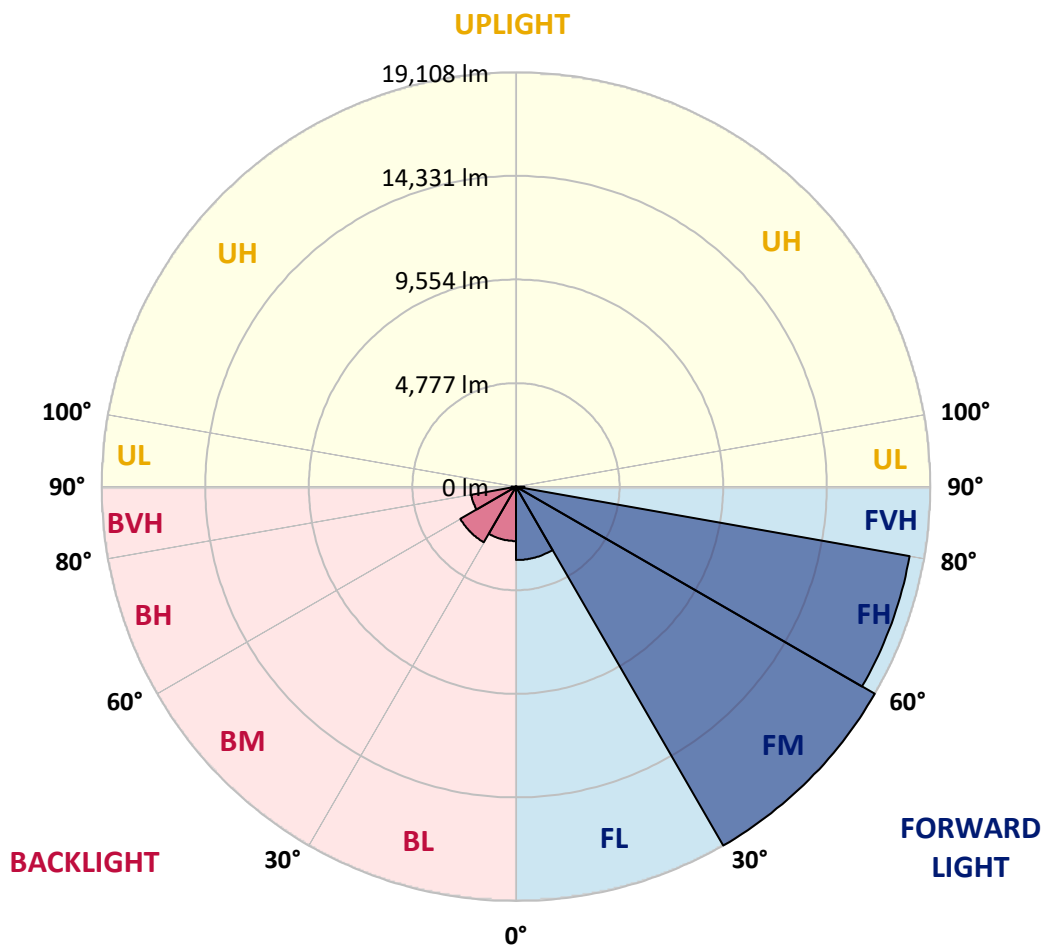


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.5	6.9			
FM (30°-60°)	19108.5	38.9			
FH (60°-80°)	18432.6	37.6			G5
FVH (80°-90°)	391.0	0.8			G3/500
BL (0°-30°)	2508.6	5.1	B4/5000		
BM (30°-60°)	2964.6	6.0	B3/5000		
BH (60°-80°)	2099.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	197.7	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°	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5
2.5°	7015.9	6987.2	7021.7	6987.2	7142.6	7234.7	7263.4	7303.7	7447.6	7585.7
5°	6722.4	6595.8	6733.9	6780.0	6791.5	6946.9	7108.0	7136.8	7211.6	7436.1
7.5°	6233.2	6377.1	6325.3	6463.4	6607.3	6762.7	7027.5	6952.6	7228.9	7441.8
10°	6129.6	6141.1	6198.7	6250.5	6377.1	6578.5	6946.9	6900.8	7182.9	7637.5
12.5°	6233.2	6233.2	6215.9	6175.6	6319.5	6515.2	6808.7	6831.8	7274.9	7695.1
15°	6595.8	6664.9	6480.7	6509.5	6451.9	6515.2	6774.2	6826.0	7309.5	7741.1
17.5°	7482.1	7459.1	7240.4	6935.4	6682.1	6641.8	6820.3	6877.8	7274.9	7873.5
20°	8345.5	8299.4	7919.6	7603.0	7102.3	6866.3	6895.1	6900.8	7332.5	7959.8
22.5°	9306.6	9427.5	9013.1	8368.5	7746.9	7159.8	7044.7	7136.8	7464.9	8005.9
25°	10814.6	10555.6	10198.7	9352.7	8351.2	7614.5	7292.2	7338.3	7591.5	8121.0
27.5°	11902.4	11798.8	11240.5	10555.6	9197.3	7971.4	7424.6	7510.9	7821.7	8115.2
30°	12949.9	12949.9	12610.3	11585.8	10089.4	8569.9	7706.6	7666.3	7712.4	8103.7
32.5°	14175.8	14008.9	13519.6	12840.5	11211.7	9116.7	7931.1	7942.6	7942.6	8316.7
35°	14820.4	15090.9	14762.8	13657.8	12069.3	10026.1	8472.1	8385.7	8322.4	8552.7
37.5°	15764.3	15925.4	15580.1	14929.7	13134.0	10762.8	8949.8	8880.7	8512.4	8736.8
40°	16334.1	16305.3	16293.8	15994.5	14544.1	11631.8	9652.0	9473.5	8978.6	9387.2
42.5°	16656.4	16598.8	17306.8	17122.6	15873.6	12909.6	10532.5	10434.7	9887.9	10544.1
45°	17019.0	17444.9	18026.2	18544.2	17421.9	14705.3	12023.2	11885.1	11395.9	12230.4
47.5°	17335.5	17859.3	18601.7	19154.3	18820.5	16656.4	13865.0	13899.5	13577.2	14434.8
50°	17865.0	17916.8	18924.1	20040.6	20299.6	18457.9	16339.8	16282.3	16138.4	17341.3
52.5°	17703.9	17859.3	19131.2	20558.6	20984.5	20362.9	18998.9	19171.5	18981.6	20495.3
55°	15079.4	15545.6	19004.6	21105.4	22607.6	22515.5	22417.6	22302.5	22291.0	24040.7
57.5°	13888.0	14267.9	16742.7	21709.7	24345.7	25024.9	25658.0	25784.6	25778.8	27891.1
60°	13105.3	13496.6	15827.6	21381.6	25824.9	28311.3	29525.7	29542.9	29508.4	32006.3
62.5°	11574.3	11954.2	14244.8	19585.9	26233.5	31344.4	34049.5	34273.9	32691.2	35551.7
65°	9732.5	10043.3	12063.5	16840.6	25145.7	33272.5	37451.0	37186.2	35373.2	37577.6
67°	7959.8	8167.0	10135.4	14457.8	22302.5	32345.9	38435.2	38653.9	36610.7	37663.9
67.5°	7453.4	7643.3	9502.3	13646.3	21220.5	31643.7	38469.7	38435.2	36633.7	37681.2
70°	5174.2	5254.8	6474.9	9387.2	15631.9	26734.3	35661.0	35741.6	35097.0	35638.0
72.5°	3430.3	3551.1	4328.1	5916.6	9214.5	19453.6	29807.7	30671.0	30262.4	29220.6
75°	2210.1	2279.2	2831.7	3522.4	4535.3	11079.3	22020.5	22596.1	21657.9	18072.2
77.5°	1237.4	1312.3	1709.4	2141.0	2210.1	4610.1	12368.5	13082.2	11085.1	7677.8
80°	771.2	869.1	1289.2	1272.0	1053.3	1692.1	5099.4	5462.0	4431.7	2641.8
82.5°	581.3	656.1	995.7	892.1	592.8	754.0	1910.8	2049.0	1623.0	1018.7
85°	397.1	500.7	719.4	552.5	310.8	362.6	759.7	817.3	742.5	495.0
87.5°	143.9	213.0	374.1	276.3	138.1	109.4	247.5	276.3	264.8	224.5
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°
7637.5	0°	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5	7637.5
7706.6	2.5°	7816.0	7896.5	7936.8	8172.8	8270.6	8253.4	8276.4	8310.9	8345.5	8391.5
7804.4	5°	7879.3	8126.8	8259.1	8535.4	8719.6	8639.0	8742.6	8713.8	8673.5	8667.8
7982.9	7.5°	8086.5	8403.0	8800.1	8875.0	8955.5	8754.1	8581.4	8345.5	8287.9	8086.5
8132.5	10°	8454.8	8713.8	9197.3	9226.1	8869.2	8351.2	7965.6	7476.4	7470.6	7177.1
8362.7	12.5°	8805.9	9099.4	9490.8	9323.9	8472.1	7764.2	7136.8	6601.5	6377.1	6227.4
8500.9	15°	9024.6	9508.1	9715.3	8995.8	7775.7	6820.3	6008.7	5433.2	5203.0	5093.6
8673.5	17.5°	9226.1	9899.4	9807.4	8420.3	6918.1	5847.6	4880.7	4379.9	4316.6	4236.0
8949.8	20°	9502.3	10043.3	9479.3	7672.1	5945.4	4592.9	3977.0	3735.3	3792.9	3827.4
8978.6	22.5°	9761.3	10118.2	9064.9	6854.8	4696.5	3637.5	3332.4	3384.2	3470.6	3585.7
9047.6	25°	9876.4	10239.0	8506.6	5726.7	3574.2	3061.9	2992.9	3079.2	3223.1	3228.8
9145.5	27.5°	9951.2	10152.7	7833.2	4627.4	2825.9	2676.3	2779.9	2843.2	2860.5	2929.5
9352.7	30°	10083.6	9974.3	6981.4	3309.4	2371.3	2377.0	2509.4	2509.4	2509.4	2561.2
9559.9	32.5°	10313.8	9853.4	5985.7	2417.3	2043.2	2227.4	2192.8	2181.3	2158.3	2095.0
9824.6	35°	10457.7	9525.3	4725.3	1790.0	1836.0	2043.2	2031.7	1853.3	1554.0	1404.3
10498.0	37.5°	10757.0	9358.4	3476.3	1381.3	1715.1	1951.1	1887.8	1456.1	1128.1	984.2
11332.6	40°	11401.6	9249.1	2405.8	1208.7	1634.6	1905.1	1686.4	1243.2	863.3	610.1
12621.8	42.5°	12190.1	9254.8	1634.6	1139.6	1640.3	2002.9	1623.0	1064.8	610.1	489.2
14342.7	45°	13249.1	9168.5	1122.3	1139.6	1743.9	2164.1	1663.3	966.9	592.8	621.6
16501.0	47.5°	14388.7	9243.3	834.5	1036.0	1761.2	2169.8	1519.4	949.7	569.8	719.4
18849.2	50°	15718.2	9318.1	690.7	955.4	1766.9	2100.8	1398.6	926.6	592.8	759.7
21542.8	52.5°	17088.1	9554.1	587.1	903.6	1836.0	2072.0	1398.6	961.2	592.8	661.9
24973.1	55°	19131.2	10158.4	846.1	1128.1	2089.2	2261.9	1720.9	1346.8	828.8	851.8
28259.5	57.5°	21387.4	10780.0	943.9	1185.6	2146.8	2037.4	1853.3	1484.9	874.8	880.6
30814.9	60°	22872.3	10803.1	938.1	1156.9	2008.7	1761.2	1813.0	1565.5	892.1	754.0
32397.7	62.5°	23465.1	10100.9	978.4	1156.9	1870.5	1646.1	1859.0	1686.4	920.9	943.9
32846.6	65°	22791.7	8650.5	943.9	1036.0	1646.1	1473.4	1870.5	1709.4	1007.2	949.7
32040.8	67°	21738.5	7453.4	961.2	984.2	1531.0	1398.6	1968.4	1795.7	1168.4	1139.6
31620.7	67.5°	21439.2	7136.8	955.4	955.4	1490.7	1375.6	1991.4	1795.7	1191.4	1179.9
27908.4	70°	18895.3	5784.3	978.4	943.9	1318.0	1306.5	2118.0	1893.6	1369.8	1381.3
20501.1	72.5°	14383.0	4385.7	972.7	943.9	1145.3	1248.9	2135.3	1956.9	1490.7	1381.3
11482.2	75°	8172.8	2624.5	857.6	823.0	903.6	1087.8	1997.2	1864.8	1450.4	1237.4
4587.1	77.5°	3378.5	1352.5	788.5	742.5	748.2	886.3	1663.3	1738.2	1381.3	1053.3
1531.0	80°	1260.5	811.5	633.1	592.8	575.5	650.4	1185.6	1387.1	1179.9	863.3
673.4	82.5°	656.1	506.5	431.7	431.7	391.4	414.4	638.9	920.9	892.1	592.8
270.5	85°	333.8	287.8	247.5	241.7	218.7	195.7	322.3	546.8	512.2	328.1
120.9	87.5°	178.4	161.2	103.6	97.8	80.6	51.8	57.6	109.4	178.4	143.9
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°
7637.5
8437.5
8719.6
8155.5
7165.6
6192.9
5070.6
4276.3
3787.1
3522.4
3286.4
2992.9
2618.7
2060.5
1473.4
978.4
592.8
477.7
633.1
800.0
880.6
679.1
897.9
851.8
777.0
955.4
932.4
1122.3
1156.9
1277.7
1225.9
1105.1
995.7
788.5
466.2
270.5
103.6
0.0

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