

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: P477797

Luminaire Tested: **IFLD-L-SA8B-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

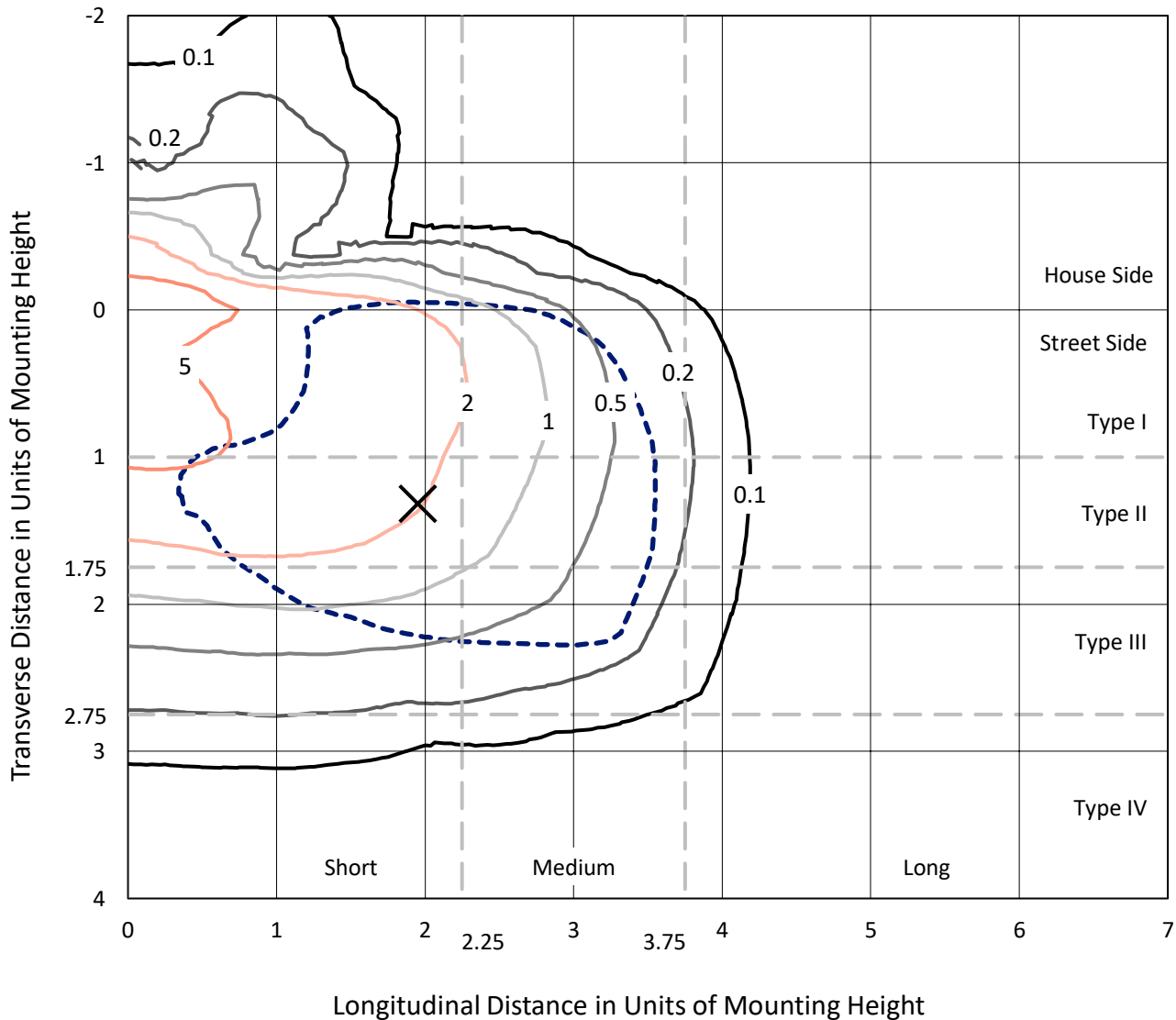
Lumens per Lamp: N/A
Luminaire Lumens: 39978.2 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

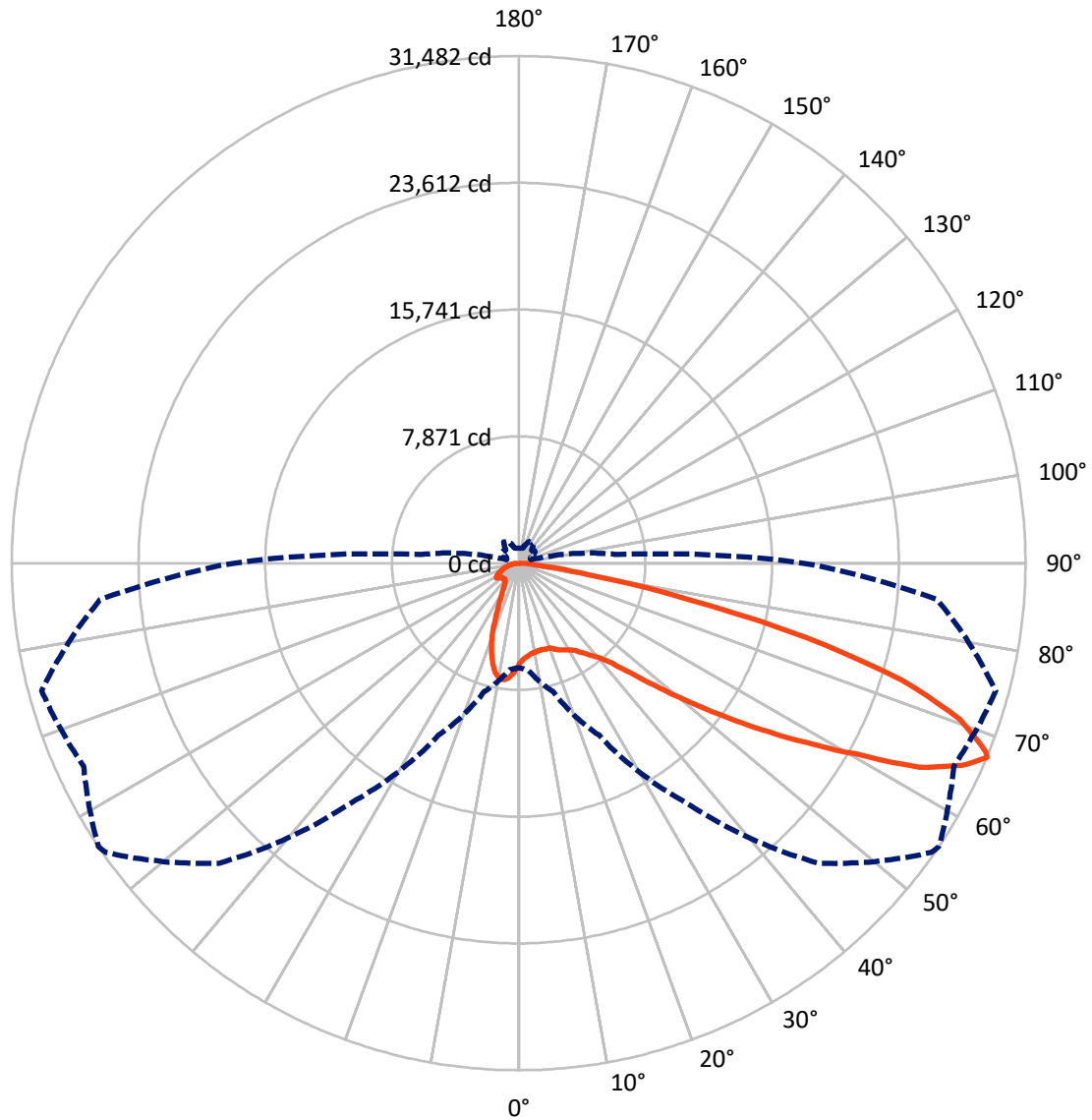
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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	6329.0	0.0	6329.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	33649.2	0.0	33649.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	39978.2	0.0	39978.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.3	1.5
10°-20°	1634.9	4.1
20°-30°	2564.0	6.4
30°-40°	3660.1	9.2
40°-50°	5524.1	13.8
50°-60°	8793.5	22.0
60°-70°	11241.8	28.1
70°-80°	5481.1	13.7
80°-90°	479.5	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°	39978.2	100.0
0°-180°	39978.2	100.0

Coefficient of Utilization

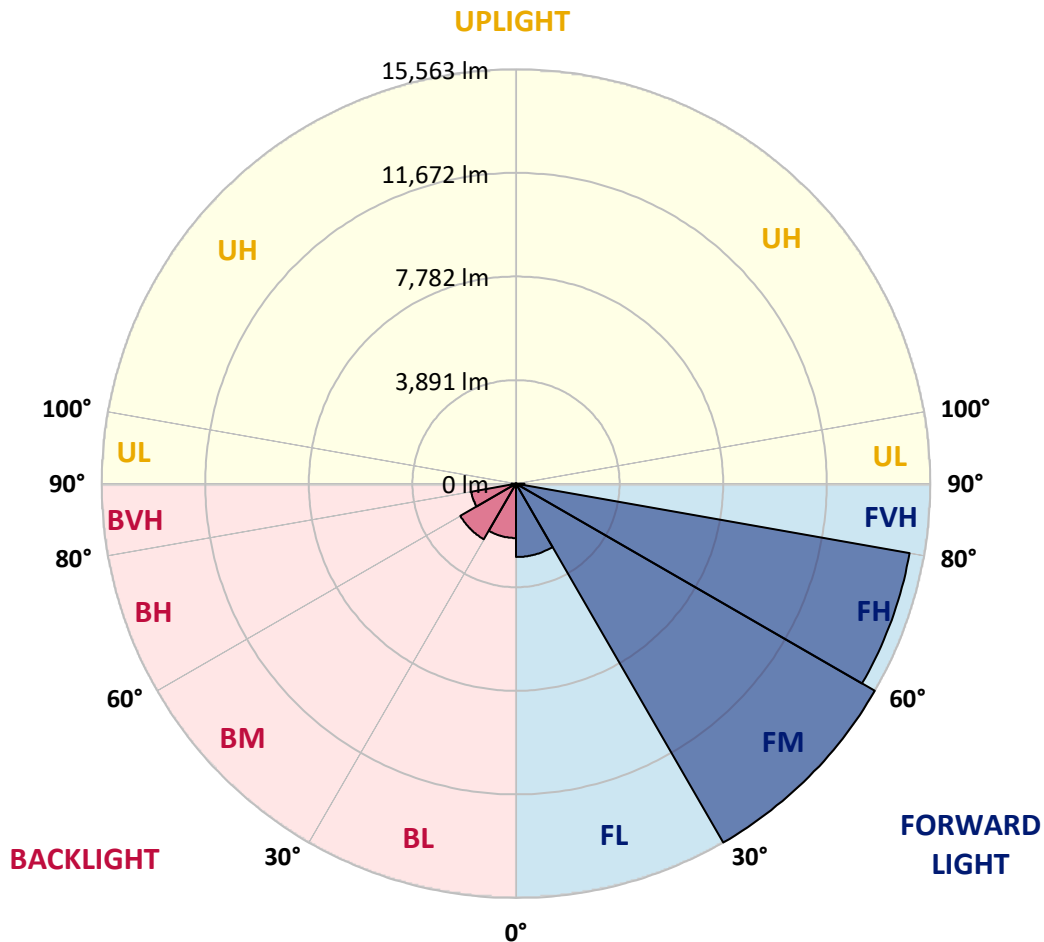


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.9	6.9			
FM (30°-60°)	15563.2	38.9			
FH (60°-80°)	15012.7	37.6			G5
FVH (80°-90°)	318.4	0.8			G3/500
BL (0°-30°)	2043.2	5.1	B3/2500		
BM (30°-60°)	2414.6	6.0	B2/2500		
BH (60°-80°)	1710.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	161.0	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°	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5
2.5°	5714.2	5690.8	5718.9	5690.8	5817.4	5892.4	5915.8	5948.6	6065.8	6178.3
5°	5475.2	5372.0	5484.5	5522.0	5531.4	5658.0	5789.2	5812.7	5873.6	6056.4
7.5°	5076.7	5193.9	5151.7	5264.2	5381.4	5508.0	5723.6	5662.7	5887.7	6061.1
10°	4992.3	5001.7	5048.6	5090.8	5193.9	5358.0	5658.0	5620.5	5850.2	6220.5
12.5°	5076.7	5076.7	5062.7	5029.8	5147.0	5306.4	5545.5	5564.2	5925.2	6267.4
15°	5372.0	5428.3	5278.3	5301.7	5254.8	5306.4	5517.4	5559.5	5953.3	6304.9
17.5°	6093.9	6075.2	5897.1	5648.6	5442.4	5409.5	5554.9	5601.7	5925.2	6412.7
20°	6797.1	6759.6	6450.2	6192.4	5784.5	5592.4	5615.8	5620.5	5972.1	6483.0
22.5°	7579.9	7678.4	7340.8	6815.8	6309.6	5831.4	5737.7	5812.7	6079.9	6520.5
25°	8808.1	8597.1	8306.5	7617.4	6801.8	6201.7	5939.2	5976.7	6183.0	6614.3
27.5°	9694.0	9609.7	9155.0	8597.1	7490.9	6492.4	6047.1	6117.4	6370.5	6609.6
30°	10547.2	10547.2	10270.6	9436.2	8217.4	6979.9	6276.8	6243.9	6281.4	6600.2
32.5°	11545.7	11409.7	11011.3	10458.1	9131.5	7425.2	6459.6	6468.9	6468.9	6773.6
35°	12070.7	12291.0	12023.8	11123.8	9830.0	8165.9	6900.2	6829.9	6778.3	6965.8
37.5°	12839.5	12970.7	12689.4	12159.7	10697.2	8765.9	7289.3	7233.0	6933.0	7115.8
40°	13303.5	13280.1	13270.7	13027.0	11845.7	9473.7	7861.2	7715.9	7312.7	7645.5
42.5°	13566.0	13519.2	14095.7	13945.7	12928.5	10514.4	8578.4	8498.7	8053.4	8587.8
45°	13861.4	14208.2	14681.7	15103.6	14189.5	11976.9	9792.5	9680.0	9281.5	9961.2
47.5°	14119.2	14545.8	15150.5	15600.5	15328.6	13566.0	11292.5	11320.7	11058.1	11756.6
50°	14550.4	14592.6	15413.0	16322.4	16533.3	15033.3	13308.2	13261.3	13144.1	14123.9
52.5°	14419.2	14545.8	15581.7	16744.3	17091.1	16584.9	15473.9	15614.5	15459.8	16692.7
55°	12281.6	12661.3	15478.6	17189.6	18413.1	18338.1	18258.4	18164.6	18155.2	19580.3
57.5°	11311.3	11620.7	13636.3	17681.8	19828.7	20381.9	20897.5	21000.6	20995.9	22716.3
60°	10673.8	10992.5	12891.0	17414.6	21033.4	23058.5	24047.6	24061.7	24033.5	26068.0
62.5°	9426.8	9736.2	11601.9	15952.0	21366.3	25528.9	27732.1	27914.9	26625.8	28955.6
65°	7926.8	8179.9	9825.3	13716.0	20480.3	27099.3	30502.5	30286.9	28810.2	30605.6
67°	6483.0	6651.8	8254.9	11775.4	18164.6	26344.5	31304.1	31482.2	29818.1	30675.9
67.5°	6070.5	6225.2	7739.3	11114.4	17283.3	25772.7	31332.2	31304.1	29836.8	30690.0
70°	4214.2	4279.8	5273.6	7645.5	12731.6	21774.1	29044.6	29110.3	28585.2	29025.9
72.5°	2793.8	2892.3	3525.1	4818.9	7504.9	15844.2	24277.3	24980.4	24647.6	23799.2
75°	1800.1	1856.3	2306.3	2868.8	3693.9	9023.7	17934.9	18403.7	17639.6	14719.2
77.5°	1007.8	1068.8	1392.2	1743.8	1800.1	3754.8	10073.7	10655.0	9028.4	6253.3
80°	628.1	707.8	1050.0	1036.0	857.8	1378.2	4153.3	4448.6	3609.5	2151.6
82.5°	473.5	534.4	811.0	726.6	482.8	614.1	1556.3	1668.8	1321.9	829.7
85°	323.4	407.8	586.0	450.0	253.1	295.3	618.8	665.6	604.7	403.1
87.5°	117.2	173.4	304.7	225.0	112.5	89.1	201.6	225.0	215.6	182.8
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°
6220.5	0°	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5	6220.5
6276.8	2.5°	6365.8	6431.4	6464.3	6656.5	6736.1	6722.1	6740.8	6769.0	6797.1	6834.6
6356.4	5°	6417.4	6618.9	6726.8	6951.8	7101.8	7036.1	7120.5	7097.1	7064.3	7059.6
6501.8	7.5°	6586.1	6844.0	7167.4	7228.3	7294.0	7129.9	6989.3	6797.1	6750.2	6586.1
6623.6	10°	6886.1	7097.1	7490.9	7514.3	7223.7	6801.8	6487.7	6089.2	6084.6	5845.5
6811.1	12.5°	7172.1	7411.2	7729.9	7594.0	6900.2	6323.6	5812.7	5376.7	5193.9	5072.0
6923.6	15°	7350.2	7744.0	7912.7	7326.8	6333.0	5554.9	4893.9	4425.1	4237.6	4148.6
7064.3	17.5°	7514.3	8062.7	7987.7	6858.0	5634.5	4762.6	3975.1	3567.3	3515.7	3450.1
7289.3	20°	7739.3	8179.9	7720.5	6248.6	4842.3	3740.7	3239.2	3042.3	3089.2	3117.3
7312.7	22.5°	7950.2	8240.9	7383.0	5583.0	3825.1	2962.6	2714.1	2756.3	2826.6	2920.4
7369.0	25°	8044.0	8339.3	6928.3	4664.2	2911.0	2493.8	2437.6	2507.9	2625.1	2629.8
7448.7	27.5°	8104.9	8269.0	6379.9	3768.9	2301.6	2179.8	2264.1	2315.7	2329.8	2386.0
7617.4	30°	8212.7	8123.7	5686.1	2695.4	1931.3	1936.0	2043.8	2043.8	2043.8	2086.0
7786.2	32.5°	8400.3	8025.2	4875.1	1968.8	1664.1	1814.1	1786.0	1776.6	1757.9	1706.3
8001.8	35°	8517.4	7758.0	3848.6	1457.9	1495.4	1664.1	1654.7	1509.4	1265.7	1143.8
8550.3	37.5°	8761.2	7622.1	2831.3	1125.0	1396.9	1589.1	1537.5	1186.0	918.8	801.6
9230.0	40°	9286.2	7533.0	1959.4	984.4	1331.3	1551.6	1373.5	1012.5	703.1	496.9
10280.0	42.5°	9928.4	7537.7	1331.3	928.2	1336.0	1631.3	1321.9	867.2	496.9	398.4
11681.6	45°	10791.0	7467.4	914.1	928.2	1420.4	1762.6	1354.7	787.5	482.8	506.3
13439.5	47.5°	11719.1	7528.4	679.7	843.8	1434.4	1767.2	1237.5	773.5	464.1	586.0
15352.0	50°	12801.9	7589.3	562.5	778.1	1439.1	1711.0	1139.1	754.7	482.8	618.8
17545.8	52.5°	13917.6	7781.5	478.1	736.0	1495.4	1687.6	1139.1	782.8	482.8	539.1
20339.7	55°	15581.7	8273.7	689.1	918.8	1701.6	1842.2	1401.6	1096.9	675.0	693.8
23016.3	57.5°	17419.3	8780.0	768.8	965.7	1748.5	1659.4	1509.4	1209.4	712.5	717.2
25097.6	60°	18628.7	8798.7	764.1	942.2	1636.0	1434.4	1476.6	1275.0	726.6	614.1
26386.7	62.5°	19111.5	8226.8	796.9	942.2	1523.5	1340.7	1514.1	1373.5	750.0	768.8
26752.4	65°	18563.1	7045.5	768.8	843.8	1340.7	1200.0	1523.5	1392.2	820.3	773.5
26096.1	67°	17705.2	6070.5	782.8	801.6	1246.9	1139.1	1603.2	1462.5	951.6	928.2
25753.9	67.5°	17461.5	5812.7	778.1	778.1	1214.1	1120.3	1621.9	1462.5	970.3	961.0
22730.4	70°	15389.5	4711.1	796.9	768.8	1073.5	1064.1	1725.1	1542.2	1115.7	1125.0
16697.4	72.5°	11714.4	3572.0	792.2	768.8	932.8	1017.2	1739.1	1593.8	1214.1	1125.0
9351.8	75°	6656.5	2137.6	698.5	670.3	736.0	886.0	1626.6	1518.8	1181.3	1007.8
3736.1	77.5°	2751.6	1101.6	642.2	604.7	609.4	721.9	1354.7	1415.7	1125.0	857.8
1246.9	80°	1026.6	661.0	515.6	482.8	468.8	529.7	965.7	1129.7	961.0	703.1
548.5	82.5°	534.4	412.5	351.6	351.6	318.8	337.5	520.3	750.0	726.6	482.8
220.3	85°	271.9	234.4	201.6	196.9	178.1	159.4	262.5	445.3	417.2	267.2
98.4	87.5°	145.3	131.3	84.4	79.7	65.6	42.2	46.9	89.1	145.3	117.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
6220.5
6872.1
7101.8
6642.4
5836.1
5043.9
4129.8
3482.9
3084.5
2868.8
2676.6
2437.6
2132.9
1678.2
1200.0
796.9
482.8
389.1
515.6
651.6
717.2
553.1
731.3
693.8
632.8
778.1
759.4
914.1
942.2
1040.7
998.5
900.0
811.0
642.2
379.7
220.3
84.4
0.0

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