

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: P477836

Luminaire Tested: **IFLD-L-SA8B-750-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477836
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

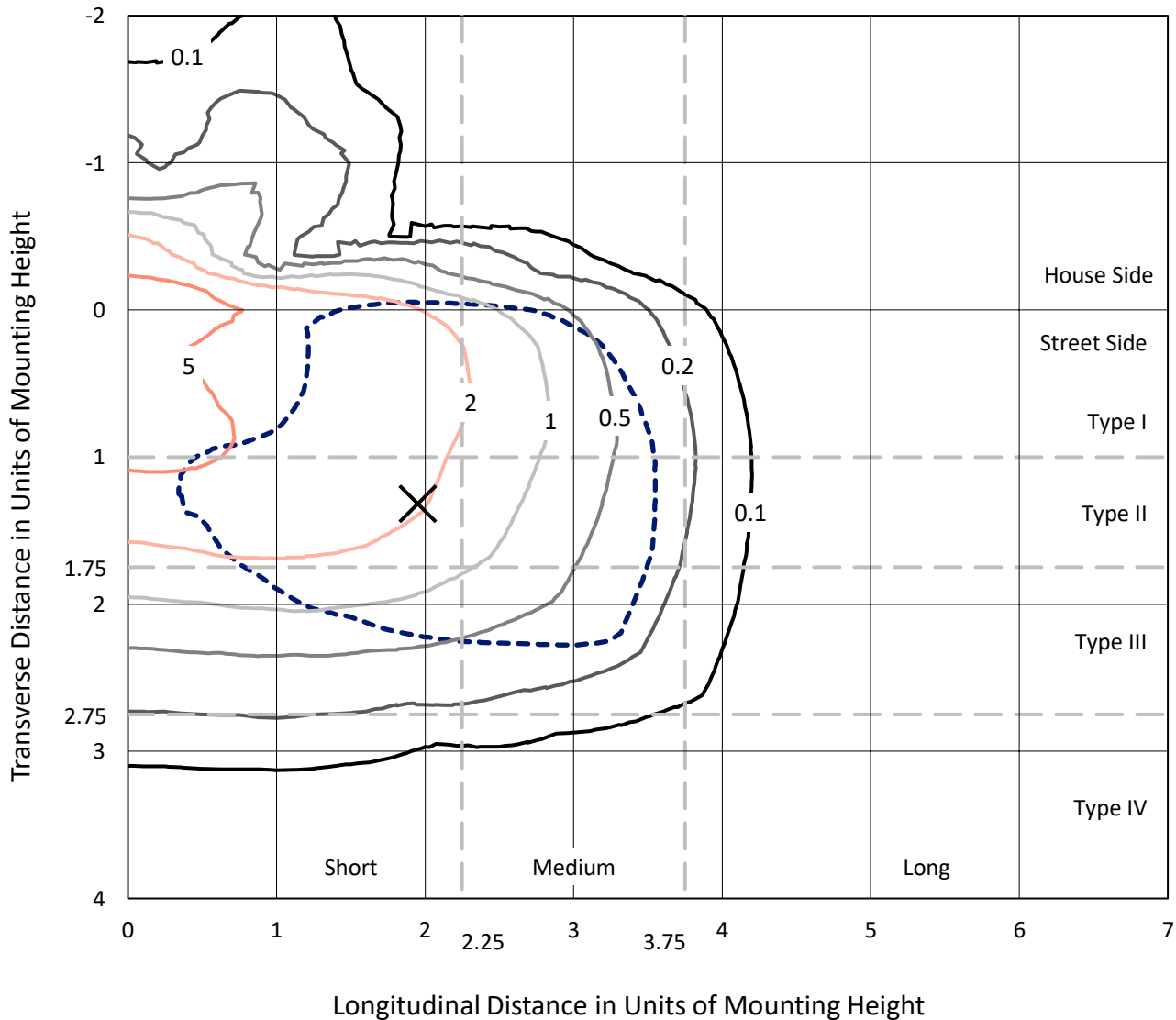
Lumens per Lamp: N/A
Luminaire Lumens: 40893.7 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

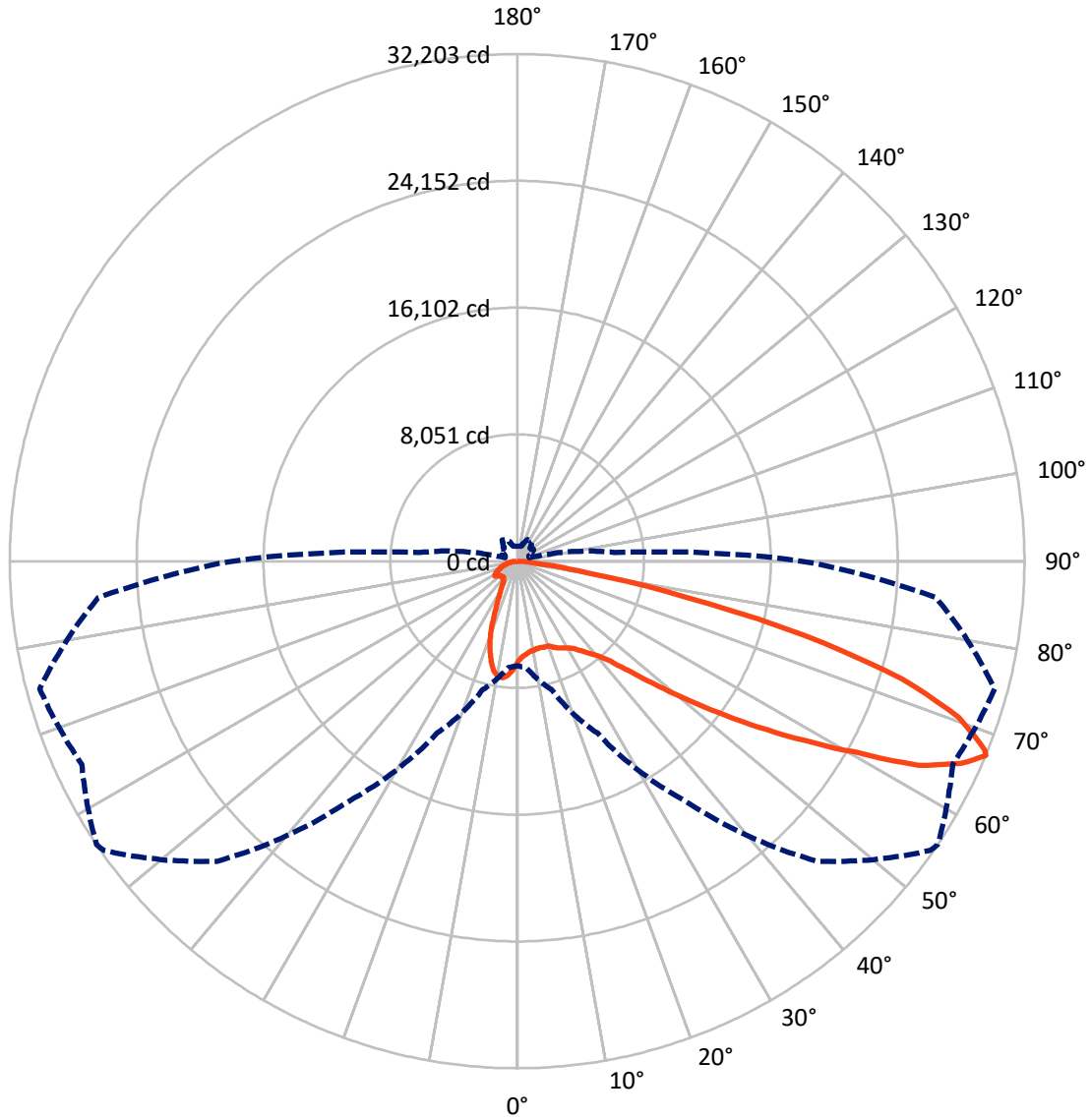
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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	6473.9	0.0	6473.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34419.8	0.0	34419.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	40893.7	0.0	40893.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	1.5
10°-20°	1672.3	4.1
20°-30°	2622.7	6.4
30°-40°	3743.9	9.2
40°-50°	5650.6	13.8
50°-60°	8994.9	22.0
60°-70°	11499.2	28.1
70°-80°	5606.6	13.7
80°-90°	490.5	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°	40893.7	100.0
0°-180°	40893.7	100.0

Coefficient of Utilization

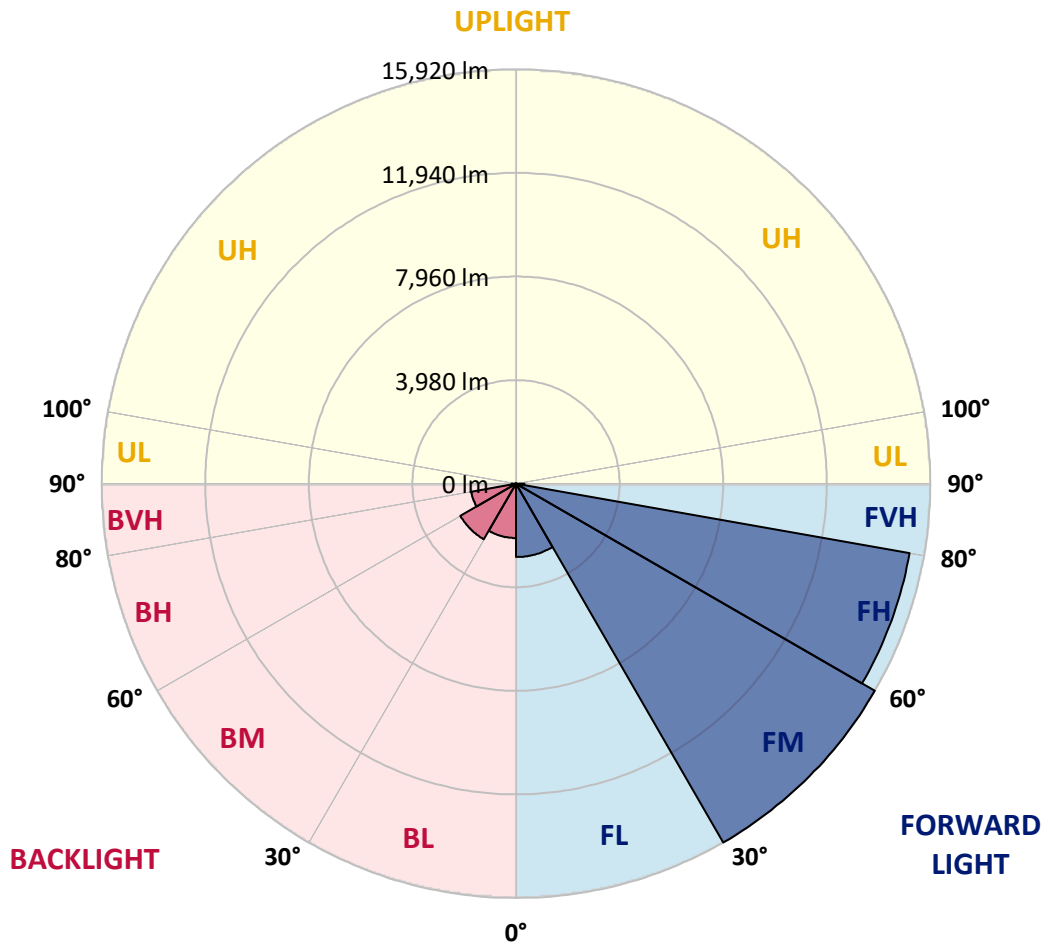


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2818.0	6.9			
FM (30°-60°)	15919.6	38.9			
FH (60°-80°)	15356.5	37.6			G5
FVH (80°-90°)	325.7	0.8			G3/500
BL (0°-30°)	2089.9	5.1	B3/2500		
BM (30°-60°)	2469.9	6.0	B2/2500		
BH (60°-80°)	1749.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	164.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9
2.5°	5845.1	5821.1	5849.9	5821.1	5950.6	6027.3	6051.3	6084.8	6204.7	6319.8
5°	5600.5	5495.1	5610.1	5648.5	5658.1	5787.6	5921.8	5945.8	6008.1	6195.1
7.5°	5193.0	5312.8	5269.7	5384.8	5504.6	5634.1	5854.7	5792.3	6022.5	6199.9
10°	5106.7	5116.3	5164.2	5207.4	5312.8	5480.7	5787.6	5749.2	5984.1	6362.9
12.5°	5193.0	5193.0	5178.6	5145.0	5264.9	5427.9	5672.5	5691.7	6060.9	6410.9
15°	5495.1	5552.6	5399.2	5423.1	5375.2	5427.9	5643.7	5686.9	6089.6	6449.3
17.5°	6233.5	6214.3	6032.1	5778.0	5567.0	5533.4	5682.1	5730.0	6060.9	6559.5
20°	6952.7	6914.4	6597.9	6334.2	5917.0	5720.4	5744.4	5749.2	6108.8	6631.5
22.5°	7753.5	7854.2	7509.0	6971.9	6454.1	5965.0	5869.1	5945.8	6219.1	6669.8
25°	9009.8	8794.0	8496.7	7791.9	6957.5	6343.8	6075.3	6113.6	6324.6	6765.7
27.5°	9916.0	9829.7	9364.6	8794.0	7662.4	6641.1	6185.5	6257.5	6516.4	6760.9
30°	10788.7	10788.7	10505.8	9652.3	8405.6	7139.7	6420.5	6386.9	6425.3	6751.3
32.5°	11810.1	11671.0	11263.4	10697.6	9340.6	7595.3	6607.5	6617.1	6617.1	6928.8
35°	12347.1	12572.5	12299.1	11378.5	10055.1	8352.9	7058.2	6986.3	6933.6	7125.4
37.5°	13133.5	13267.7	12980.0	12438.2	10942.2	8966.6	7456.2	7398.7	7091.8	7278.8
40°	13608.2	13584.2	13574.6	13325.3	12116.9	9690.7	8041.2	7892.6	7480.2	7820.6
42.5°	13876.7	13828.7	14418.5	14265.1	13224.6	10755.2	8774.8	8693.3	8237.8	8784.4
45°	14178.8	14533.6	15017.9	15449.5	14514.4	12251.2	10016.7	9901.7	9494.1	10189.4
47.5°	14442.5	14878.8	15497.4	15957.7	15679.6	13876.7	11551.1	11579.9	11311.4	12025.8
50°	14883.6	14926.8	15765.9	16696.2	16911.9	15377.5	13613.0	13565.0	13445.1	14447.3
52.5°	14749.4	14878.8	15938.5	17127.7	17482.5	16964.7	15828.3	15972.1	15813.9	17075.0
55°	12562.9	12951.3	15833.1	17583.2	18834.7	18758.0	18676.5	18580.6	18571.0	20028.7
57.5°	11570.3	11886.8	13948.6	18086.7	20282.8	20848.6	21376.1	21481.5	21476.8	23236.5
60°	10918.2	11244.2	13186.2	17813.4	21515.1	23586.5	24598.3	24612.7	24583.9	26664.9
62.5°	9642.7	9959.2	11867.6	16317.3	21855.6	26113.5	28367.2	28554.2	27235.5	29618.6
65°	8108.3	8367.3	10050.3	14030.1	20949.3	27719.8	31201.0	30980.4	29470.0	31306.5
67°	6631.5	6804.1	8444.0	12045.0	18580.6	26947.8	32020.9	32203.1	30500.9	31378.4
67.5°	6209.5	6367.7	7916.5	11368.9	17679.1	26362.8	32049.7	32020.9	30520.1	31392.8
70°	4310.7	4377.8	5394.4	7820.6	13023.2	22272.7	29709.7	29776.9	29239.8	29690.6
72.5°	2857.8	2958.5	3605.8	4929.2	7676.8	16207.1	24833.2	25552.5	25212.0	24344.2
75°	1841.3	1898.8	2359.1	2934.5	3778.5	9230.4	18345.6	18825.1	18043.5	15056.3
77.5°	1030.9	1093.3	1424.1	1783.7	1841.3	3840.8	10304.4	10899.0	9235.1	6396.5
80°	642.5	724.0	1074.1	1059.7	877.5	1409.7	4248.4	4550.4	3692.1	2200.9
82.5°	484.3	546.6	829.5	743.2	493.9	628.1	1591.9	1707.0	1352.2	848.7
85°	330.9	417.2	599.4	460.3	258.9	302.1	632.9	680.9	618.6	412.4
87.5°	119.9	177.4	311.7	230.2	115.1	91.1	206.2	230.2	220.6	187.0
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°
6362.9	0°	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9	6362.9
6420.5	2.5°	6511.6	6578.7	6612.3	6808.9	6890.4	6876.0	6895.2	6924.0	6952.7	6991.1
6502.0	5°	6564.3	6770.5	6880.8	7111.0	7264.4	7197.3	7283.6	7259.6	7226.0	7221.3
6650.6	7.5°	6737.0	7000.7	7331.5	7393.9	7461.0	7293.2	7149.3	6952.7	6904.8	6737.0
6775.3	10°	7043.8	7259.6	7662.4	7686.4	7389.1	6957.5	6636.3	6228.7	6223.9	5979.4
6967.1	12.5°	7336.3	7580.9	7906.9	7767.9	7058.2	6468.4	5945.8	5499.9	5312.8	5188.2
7082.2	15°	7518.5	7921.3	8093.9	7494.6	6478.0	5682.1	5006.0	4526.5	4334.7	4243.6
7226.0	17.5°	7686.4	8247.4	8170.7	7015.1	5763.6	4871.7	4066.2	3649.0	3596.2	3529.1
7456.2	20°	7916.5	8367.3	7897.3	6391.7	4953.2	3826.4	3313.3	3111.9	3159.9	3188.7
7480.2	22.5°	8132.3	8429.6	7552.1	5710.8	3912.7	3030.4	2776.3	2819.5	2891.4	2987.3
7537.7	25°	8228.2	8530.3	7087.0	4771.0	2977.7	2550.9	2493.4	2565.3	2685.2	2690.0
7619.2	27.5°	8290.5	8458.4	6526.0	3855.2	2354.3	2229.7	2316.0	2368.7	2383.1	2440.6
7791.9	30°	8400.8	8309.7	5816.3	2757.1	1975.5	1980.3	2090.6	2090.6	2090.6	2133.8
7964.5	32.5°	8592.6	8209.0	4986.8	2013.9	1702.2	1855.7	1826.9	1817.3	1798.1	1745.4
8185.0	35°	8712.5	7935.7	3936.7	1491.2	1529.6	1702.2	1692.6	1544.0	1294.6	1170.0
8746.1	37.5°	8961.8	7796.7	2896.2	1150.8	1428.9	1625.5	1572.8	1213.1	939.8	819.9
9441.3	40°	9498.9	7705.5	2004.3	1006.9	1361.8	1587.1	1404.9	1035.7	719.2	508.3
10515.4	42.5°	10155.8	7710.3	1361.8	949.4	1366.6	1668.7	1352.2	887.1	508.3	407.6
11949.1	45°	11038.1	7638.4	935.0	949.4	1452.9	1802.9	1385.8	805.6	493.9	517.9
13747.2	47.5°	11987.5	7700.8	695.3	863.1	1467.3	1807.7	1265.9	791.2	474.7	599.4
15703.6	50°	13095.1	7763.1	575.4	796.0	1472.1	1750.2	1165.2	772.0	493.9	632.9
17947.6	52.5°	14236.3	7959.7	489.1	752.8	1529.6	1726.2	1165.2	800.8	493.9	551.4
20805.5	55°	15938.5	8463.2	704.9	939.8	1740.6	1884.4	1433.7	1122.0	690.5	709.7
23543.4	57.5°	17818.2	8981.0	786.4	987.8	1788.5	1697.4	1544.0	1237.1	728.8	733.6
25672.4	60°	19055.3	9000.2	781.6	963.8	1673.5	1467.3	1510.4	1304.2	743.2	628.1
26991.0	62.5°	19549.2	8415.2	815.1	963.8	1558.4	1371.4	1548.8	1404.9	767.2	786.4
27365.0	65°	18988.2	7206.9	786.4	863.1	1371.4	1227.5	1558.4	1424.1	839.1	791.2
26693.7	67°	18110.7	6209.5	800.8	819.9	1275.5	1165.2	1639.9	1496.0	973.4	949.4
26343.7	67.5°	17861.3	5945.8	796.0	796.0	1241.9	1146.0	1659.1	1496.0	992.6	983.0
23250.9	70°	15741.9	4819.0	815.1	786.4	1098.1	1088.5	1764.6	1577.6	1141.2	1150.8
17079.7	72.5°	11982.7	3653.8	810.4	786.4	954.2	1040.5	1778.9	1630.3	1241.9	1150.8
9566.0	75°	6808.9	2186.5	714.5	685.7	752.8	906.3	1663.9	1553.6	1208.3	1030.9
3821.6	77.5°	2814.7	1126.8	656.9	618.6	623.3	738.4	1385.8	1448.1	1150.8	877.5
1275.5	80°	1050.1	676.1	527.4	493.9	479.5	541.8	987.8	1155.6	983.0	719.2
561.0	82.5°	546.6	422.0	359.6	359.6	326.1	345.2	532.2	767.2	743.2	493.9
225.4	85°	278.1	239.7	206.2	201.4	182.2	163.0	268.5	455.5	426.8	273.3
100.7	87.5°	148.6	134.3	86.3	81.5	67.1	43.2	47.9	91.1	148.6	119.9
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



<u>180°</u>
6362.9
7029.5
7264.4
6794.5
5969.8
5159.4
4224.4
3562.7
3155.1
2934.5
2737.9
2493.4
2181.7
1716.6
1227.5
815.1
493.9
398.0
527.4
666.5
733.6
565.8
748.0
709.7
647.3
796.0
776.8
935.0
963.8
1064.5
1021.3
920.6
829.5
656.9
388.4
225.4
86.3
0.0

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