

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: P477447

Luminaire Tested: **IFLD-L-SA8C-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

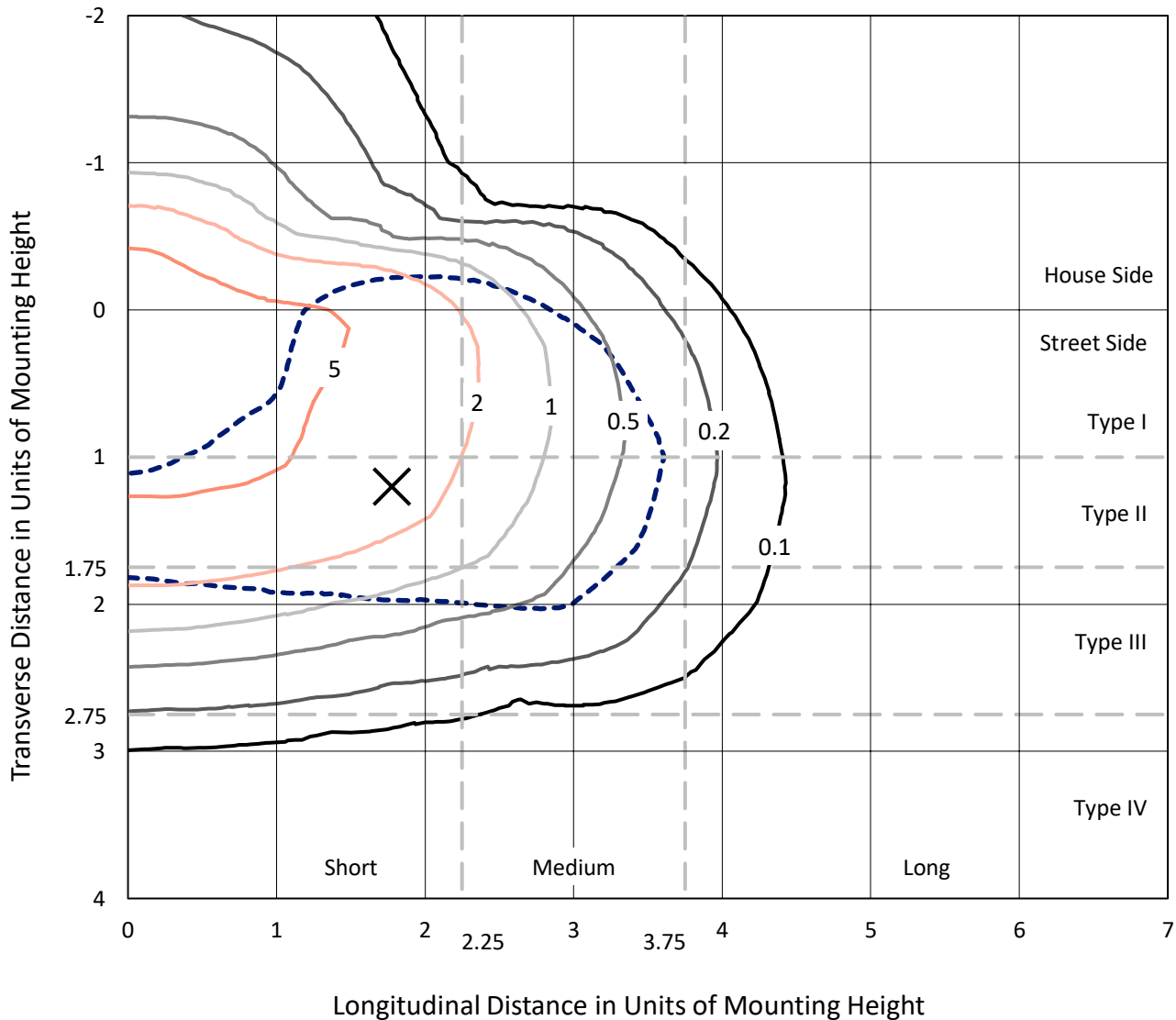
Lumens per Lamp: N/A
Luminaire Lumens: 52784 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

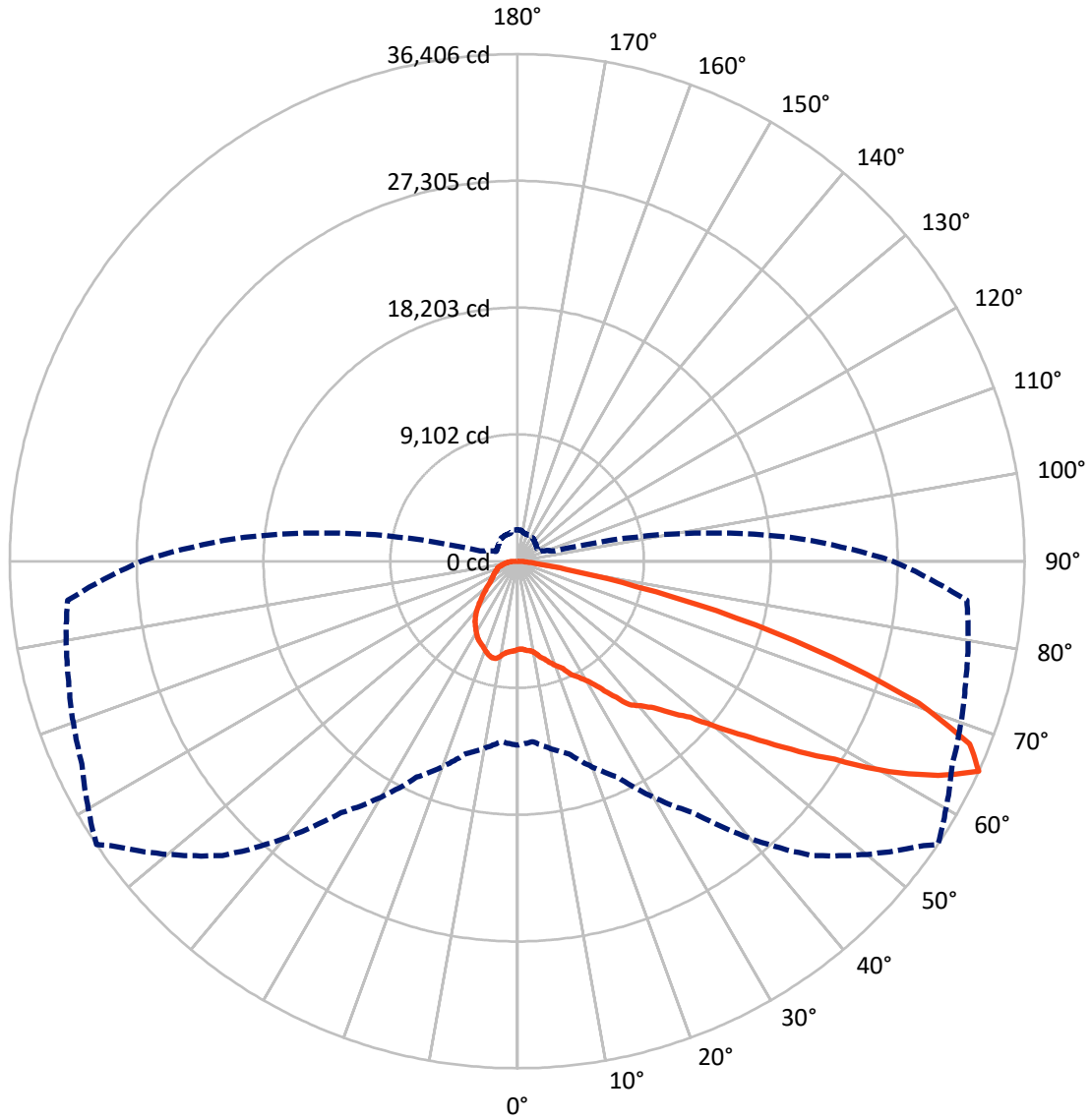
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11837.7	0.0	11837.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	40946.2	0.0	40946.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	52784.0	0.0	52784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	1.2
10°-20°	2038.7	3.9
20°-30°	3630.0	6.9
30°-40°	5435.8	10.3
40°-50°	8053.8	15.3
50°-60°	12409.7	23.5
60°-70°	14049.3	26.6
70°-80°	5830.6	11.0
80°-90°	708.4	1.3
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°	52784.0	100.0
0°-180°	52784.0	100.0

Coefficient of Utilization

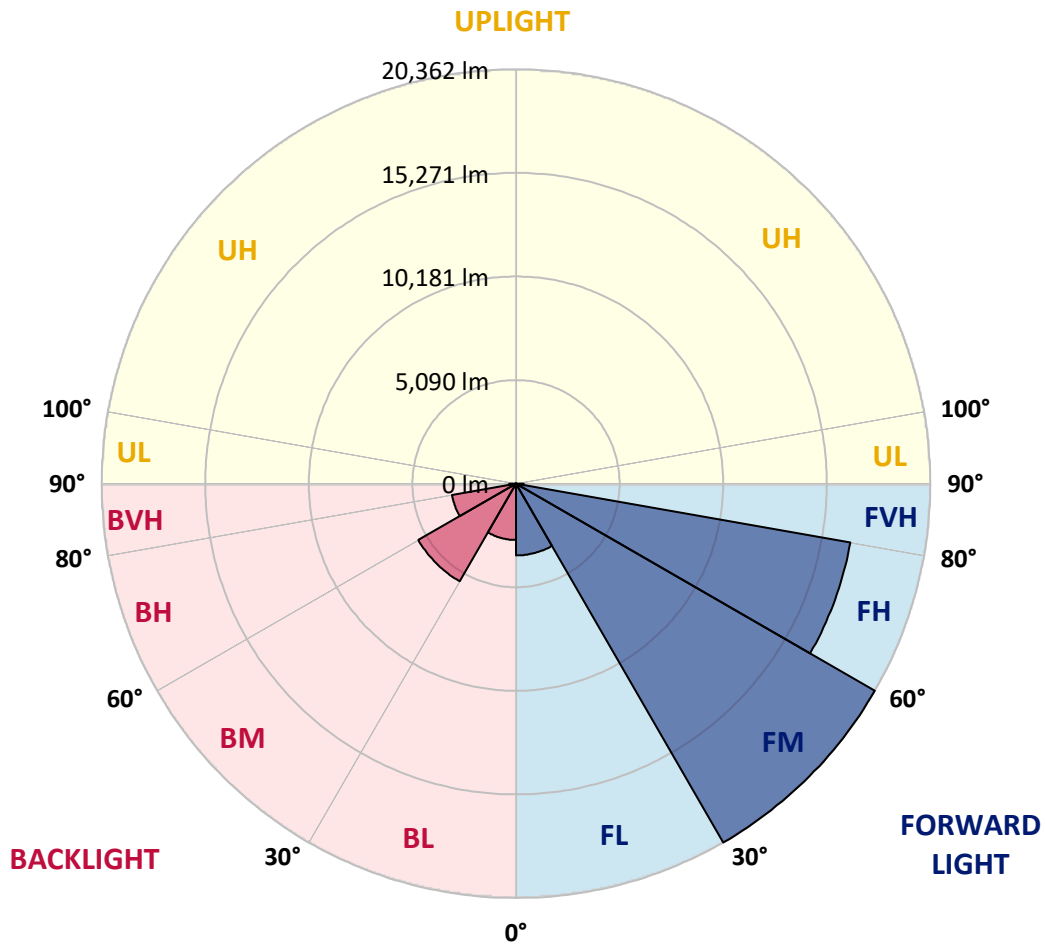


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3527.5	6.7			
FM (30°-60°)	20361.8	38.6			
FH (60°-80°)	16683.3	31.6			G5
FVH (80°-90°)	373.6	0.7			G3/500
BL (0°-30°)	2769.0	5.2	B4/5000		
BM (30°-60°)	5537.5	10.5	B4/8500		
BH (60°-80°)	3196.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	334.7	0.6			G3/500
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°	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6
2.5°	6169.9	6203.0	6180.9	6247.2	6302.4	6302.4	6346.6	6313.5	6357.7	6418.4
5°	6374.2	6241.7	6313.5	6346.6	6330.1	6357.7	6313.5	6424.0	6352.2	6468.2
7.5°	6424.0	6473.7	6534.4	6479.2	6528.9	6501.3	6506.8	6490.2	6451.6	6545.5
10°	6788.5	6716.7	6854.8	6771.9	6760.9	6749.9	6727.8	6644.9	6738.8	6744.3
12.5°	7208.3	7142.0	7136.5	7070.2	7158.6	6998.4	7031.6	6987.4	7003.9	7026.0
15°	7512.1	7484.5	7611.5	7534.2	7418.2	7346.4	7423.7	7302.2	7363.0	7351.9
17.5°	8114.2	8108.7	8014.8	7887.7	7821.4	7716.5	7699.9	7650.2	7694.4	7672.3
20°	8534.0	8594.7	8611.3	8462.2	8208.1	8092.1	8064.5	8025.8	8075.5	8059.0
22.5°	9174.7	9080.8	9152.6	8893.0	8799.1	8522.9	8423.5	8368.3	8605.8	8545.0
25°	9583.5	9682.9	9611.1	9522.7	9312.8	8970.3	8898.5	9020.1	9114.0	9047.7
27.5°	10505.9	10406.5	10340.2	10075.1	9937.0	9577.9	9495.1	9450.9	9473.0	9511.7
30°	11207.4	11262.6	11113.5	10925.7	10577.7	10213.2	10019.8	9981.2	9903.8	9837.6
32.5°	12207.2	12124.3	12036.0	11914.4	11616.2	11135.6	10947.8	10804.2	10572.2	10262.9
35°	12687.7	12925.3	12859.0	12533.1	12306.6	12124.3	12069.1	11848.2	11654.8	11168.7
37.5°	13488.7	13588.1	13494.2	13389.2	13284.3	13091.0	13024.7	13085.4	12704.3	11903.4
40°	14007.9	14217.8	14411.1	14118.4	14096.3	14134.9	13726.2	13654.4	12870.0	12450.2
42.5°	15068.4	15156.8	15195.5	15184.4	15311.5	15311.5	14532.6	14378.0	13820.1	13477.6
45°	16471.4	16543.2	16681.3	16780.7	16637.1	16708.9	15598.7	15537.9	15040.8	14974.5
47.5°	17686.6	17857.8	18167.2	18459.9	18647.7	18404.7	17189.5	16758.6	16631.6	17029.3
50°	18747.1	18542.8	19266.4	19564.6	20387.7	20790.9	18946.0	18774.8	18570.4	19332.6
52.5°	18852.1	19128.3	20150.1	20746.7	22442.4	23188.1	21100.2	21028.4	20779.8	21658.1
55°	19603.3	19570.2	20597.6	21890.1	23906.2	25160.1	23906.2	23862.0	23320.7	24154.8
57.5°	19476.3	19813.2	20625.2	22431.4	25226.3	27275.6	27159.6	26855.8	26099.1	26778.5
60°	19045.4	19133.8	20122.5	22414.8	25994.1	29446.4	30672.6	30733.4	29186.8	29728.1
62.5°	16604.0	16808.4	18062.2	20652.8	25447.3	30943.3	34102.8	33887.4	32650.1	32031.4
65°	13207.0	13002.6	14306.2	17106.6	22044.7	29882.7	35605.2	36406.1	34461.8	33329.5
67.5°	8097.6	8047.9	9301.8	11770.8	16493.5	25430.7	34406.6	35030.8	33959.2	33053.3
70°	4170.3	4043.3	4827.6	6567.6	10367.8	18658.8	29943.5	30556.6	31578.5	29645.2
72.5°	1944.3	1916.7	2336.5	3231.3	5280.6	10969.9	23188.1	23630.0	25784.2	24994.3
75°	1143.4	1160.0	1397.5	1690.2	2574.0	5170.1	15388.8	16244.9	18581.4	18012.5
77.5°	856.2	856.2	994.3	1176.5	1502.4	1999.5	7595.0	8727.3	10864.9	9771.3
80°	629.7	640.7	762.3	883.8	1044.0	1032.9	3015.9	3535.1	4982.3	4258.7
82.5°	491.6	508.2	591.0	657.3	734.6	624.2	1237.3	1331.2	2049.3	1629.5
85°	342.5	353.5	464.0	447.4	447.4	348.0	513.7	541.3	812.0	773.3
87.5°	82.9	93.9	226.5	248.6	187.8	104.9	160.2	182.3	292.8	336.9
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°
6335.6	0°	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6	6335.6
6446.1	2.5°	6363.2	6385.3	6479.2	6429.5	6457.1	6341.1	6435.0	6357.7	6424.0	6390.8
6495.8	5°	6540.0	6490.2	6545.5	6506.8	6506.8	6551.0	6617.3	6567.6	6667.0	6622.8
6534.4	7.5°	6611.8	6617.3	6650.4	6656.0	6628.3	6766.4	6771.9	6755.4	6849.3	6827.2
6799.6	10°	6788.5	6794.0	6854.8	6887.9	6860.3	6910.0	6854.8	6810.6	6805.1	6783.0
7009.5	12.5°	7070.2	7125.5	7114.4	7142.0	7147.6	6937.7	6810.6	6595.2	6567.6	6595.2
7318.8	15°	7329.8	7307.7	7318.8	7374.0	7142.0	6805.1	6578.6	6396.3	6407.4	6412.9
7722.0	17.5°	7639.2	7655.7	7672.3	7418.2	6992.9	6595.2	6396.3	6396.3	6341.1	6363.2
8003.7	20°	7992.7	7926.4	7782.8	7423.7	6733.3	6352.2	6291.4	6291.4	6225.1	6180.9
8307.5	22.5°	8268.8	8136.3	7920.9	7252.5	6501.3	6258.3	6109.1	6004.2	5926.8	5838.5
8644.5	25°	8445.6	8373.8	7954.0	7075.7	6330.1	6009.7	5788.7	5628.6	5529.1	5413.1
8909.6	27.5°	8716.3	8578.2	8047.9	6871.4	6142.3	5761.1	5418.7	5170.1	4982.3	4860.8
9312.8	30°	9080.8	8882.0	7981.6	6578.6	5855.0	5330.3	4927.1	4606.7	4391.3	4291.8
9693.9	32.5°	9379.1	9119.5	7926.4	6313.5	5534.7	4893.9	4358.1	4032.2	3910.7	3783.7
10334.7	35°	9948.0	9434.3	7887.7	6164.4	5247.4	4457.6	3894.1	3612.4	3457.8	3270.0
10715.8	37.5°	10384.4	9981.2	7793.8	5855.0	4877.4	4032.2	3540.6	3286.5	3054.6	2855.7
11599.6	40°	11069.3	10743.4	7799.3	5418.7	4441.0	3667.7	3264.5	2999.3	2706.6	2535.3
12908.7	42.5°	12356.3	11494.6	7832.5	5070.7	3949.4	3369.4	3015.9	2701.0	2408.3	2264.7
14400.1	45°	13936.1	12527.6	7628.1	4755.8	3446.7	3087.7	2717.6	2402.8	2215.0	2110.0
16427.2	47.5°	15753.3	13538.4	7351.9	4164.8	3026.9	2789.4	2441.4	2259.2	2121.1	2060.3
19039.9	50°	17786.0	14985.6	7274.6	3623.5	2701.0	2535.3	2308.9	2170.8	2076.9	2005.1
21984.0	52.5°	20404.2	16670.3	7119.9	3065.6	2419.3	2331.0	2259.2	2165.3	2082.4	2021.6
24729.2	55°	22906.4	18537.2	6954.2	2607.1	2220.5	2231.5	2270.2	2187.4	2115.5	2021.6
27805.9	57.5°	25723.5	20442.9	6341.1	2270.2	2071.4	2181.8	2259.2	2165.3	2093.4	2021.6
30954.3	60°	27463.4	21514.5	5142.5	1977.5	1938.8	2087.9	2192.9	2093.4	2016.1	2043.7
32401.5	62.5°	28170.4	20951.1	3877.6	1795.2	1844.9	1960.9	2087.9	2049.3	1994.0	2099.0
32384.9	65°	26966.3	19653.0	2772.9	1640.5	1717.8	1833.8	1994.0	2038.2	2054.8	2259.2
29744.7	67.5°	23994.6	17112.2	2038.2	1513.5	1585.3	1756.5	2060.3	2132.1	2121.1	2375.2
24961.2	70°	19200.1	13383.7	1590.8	1408.5	1535.6	1817.3	2154.2	2154.2	2076.9	2375.2
19039.9	72.5°	13969.2	9434.3	1369.9	1287.0	1408.5	1668.1	2143.2	2137.6	2038.2	2170.8
12124.3	75°	8456.7	5490.5	1209.7	1165.5	1209.7	1430.6	2049.3	2016.1	1878.0	1867.0
5832.9	77.5°	4214.5	2761.8	988.7	1032.9	1055.0	1198.6	1800.7	1850.4	1662.6	1618.4
2303.3	80°	1778.6	1204.1	823.0	889.3	889.3	1010.8	1496.9	1530.0	1380.9	1298.0
911.4	82.5°	812.0	690.5	701.5	773.3	723.6	784.4	1187.6	1226.2	1121.3	983.2
386.7	85°	342.5	392.2	535.8	607.6	535.8	508.2	817.5	861.7	729.1	607.6
165.7	87.5°	154.7	215.4	336.9	441.9	270.7	237.5	436.4	452.9	364.6	270.7
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>
6335.6
6330.1
6562.1
6794.0
6783.0
6606.2
6490.2
6368.7
6114.6
5788.7
5435.2
4916.0
4347.1
3778.2
3253.4
2861.2
2551.9
2275.7
2132.1
2049.3
2016.1
2016.1
2016.1
2016.1
2021.6
2071.4
2259.2
2391.7
2325.4
2093.4
1844.9
1590.8
1270.4
961.1
613.1
254.1
0.0

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