

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: P477798

Luminaire Tested: **IFLD-L-SA8C-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

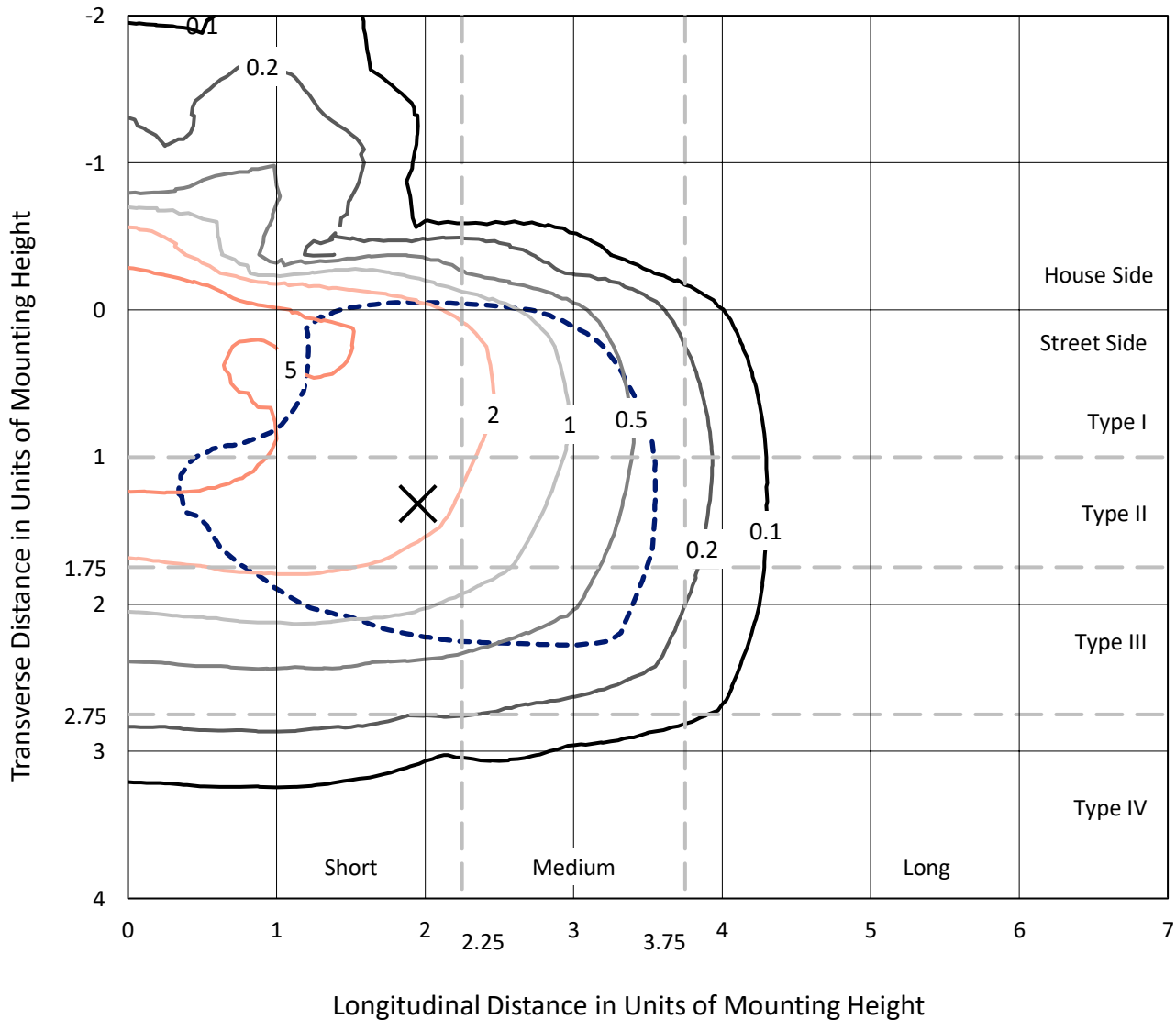
Lumens per Lamp: N/A
Luminaire Lumens: 49767.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

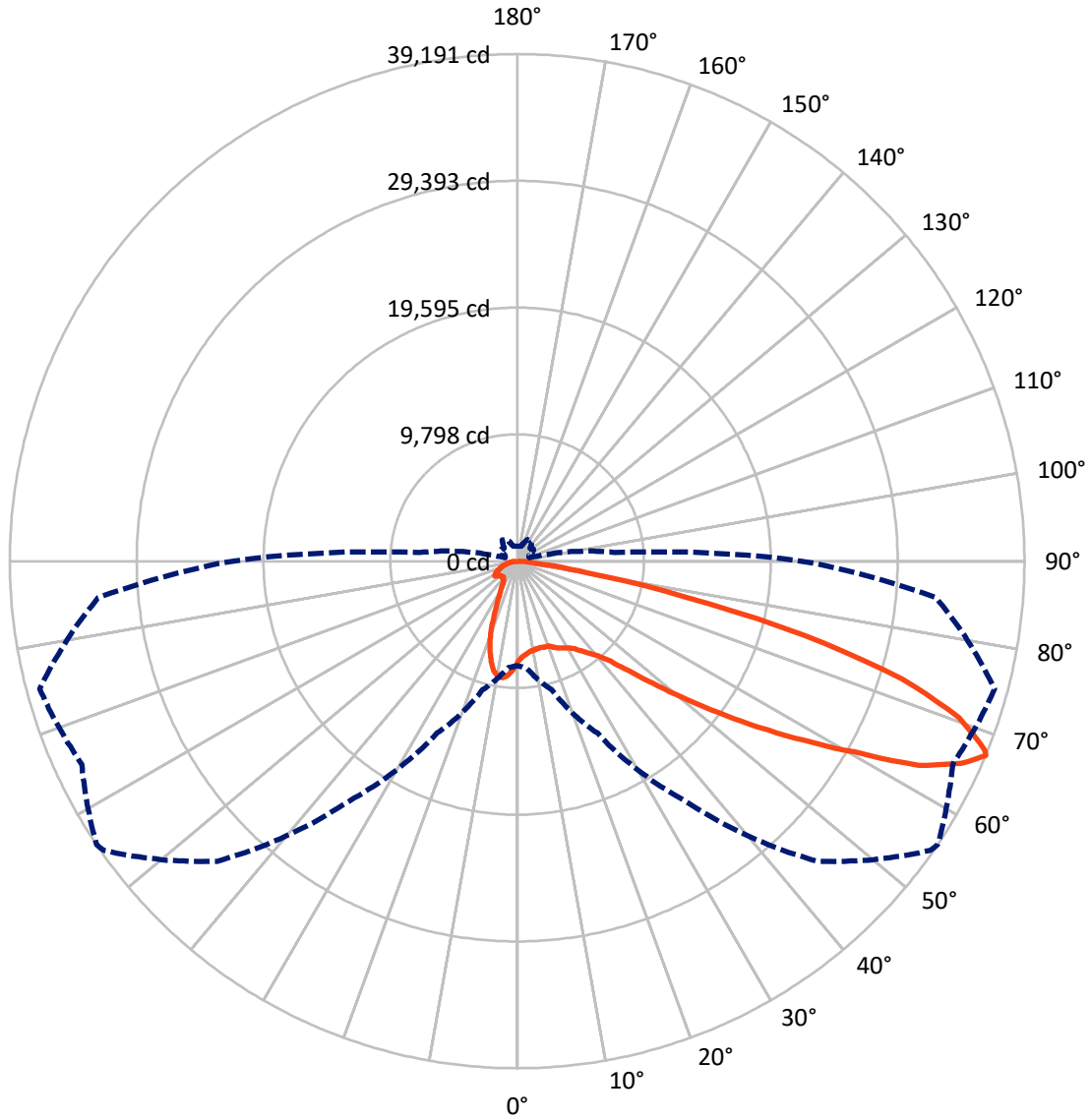
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	7878.6	0.0	7878.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	41888.4	0.0	41888.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	49767.1	0.0	49767.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.0	1.5
10°-20°	2035.2	4.1
20°-30°	3191.8	6.4
30°-40°	4556.3	9.2
40°-50°	6876.8	13.8
50°-60°	10946.6	22.0
60°-70°	13994.4	28.1
70°-80°	6823.2	13.7
80°-90°	596.9	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°	49767.1	100.0
0°-180°	49767.1	100.0

Coefficient of Utilization

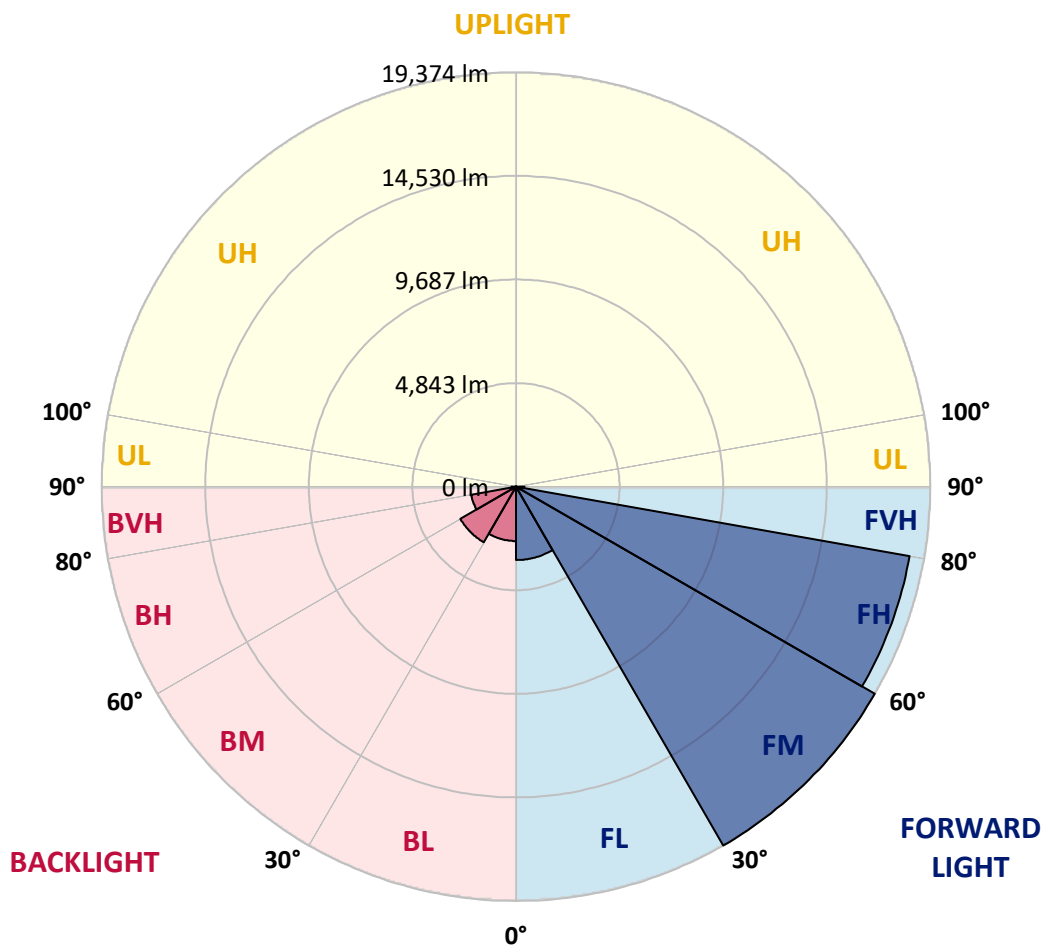


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3429.5	6.9			
FM (30°-60°)	19373.9	38.9			
FH (60°-80°)	18688.6	37.6			G5
FVH (80°-90°)	396.4	0.8			G3/500
BL (0°-30°)	2543.4	5.1	B4/5000		
BM (30°-60°)	3005.8	6.0	B3/5000		
BH (60°-80°)	2128.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	200.5	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°	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6
2.5°	7113.4	7084.2	7119.2	7084.2	7241.8	7335.1	7364.3	7405.2	7551.1	7691.1
5°	6815.8	6687.4	6827.5	6874.1	6885.8	7043.4	7206.8	7235.9	7311.8	7539.4
7.5°	6319.8	6465.7	6413.1	6553.2	6699.1	6856.6	7125.1	7049.2	7329.3	7545.2
10°	6214.7	6226.4	6284.8	6337.3	6465.7	6669.9	7043.4	6996.7	7282.6	7743.6
12.5°	6319.8	6319.8	6302.3	6261.4	6407.3	6605.7	6903.3	6926.7	7376.0	7802.0
15°	6687.4	6757.4	6570.7	6599.9	6541.5	6605.7	6868.3	6920.8	7411.0	7848.7
17.5°	7586.1	7562.7	7341.0	7031.7	6774.9	6734.1	6915.0	6973.3	7376.0	7982.9
20°	8461.4	8414.7	8029.6	7708.6	7200.9	6961.7	6990.9	6996.7	7434.3	8070.4
22.5°	9435.9	9558.4	9138.3	8484.7	7854.5	7259.3	7142.6	7235.9	7568.6	8117.1
25°	10964.8	10702.2	10340.4	9482.6	8467.2	7720.3	7393.5	7440.2	7696.9	8233.8
27.5°	12067.7	11962.6	11396.6	10702.2	9325.0	8082.1	7527.7	7615.2	7930.4	8228.0
30°	13129.7	13129.7	12785.4	11746.7	10229.5	8689.0	7813.6	7772.8	7819.5	8216.3
32.5°	14372.7	14203.5	13707.4	13018.9	11367.4	9243.3	8041.2	8052.9	8052.9	8432.2
35°	15026.2	15300.5	14967.9	13847.5	12236.9	10165.3	8589.8	8502.2	8438.0	8671.5
37.5°	15983.3	16146.7	15796.5	15137.1	13316.5	10912.3	9074.1	9004.1	8630.6	8858.2
40°	16561.0	16531.8	16520.1	16216.7	14746.1	11793.4	9786.0	9605.1	9103.3	9517.6
42.5°	16887.8	16829.4	17547.2	17360.4	16094.1	13088.9	10678.8	10579.6	10025.3	10690.5
45°	17255.4	17687.2	18276.6	18801.8	17663.9	14909.5	12190.2	12050.2	11554.2	12400.3
47.5°	17576.3	18107.4	18860.1	19420.3	19081.9	16887.8	14057.6	14092.6	13765.8	14635.3
50°	18113.2	18165.7	19186.9	20319.0	20581.6	18714.2	16566.8	16508.4	16362.6	17582.2
52.5°	17949.8	18107.4	19397.0	20844.2	21276.0	20645.8	19262.8	19437.8	19245.3	20780.0
55°	15288.8	15761.5	19268.6	21398.5	22921.6	22828.2	22729.0	22612.3	22600.6	24374.6
57.5°	14080.9	14466.0	16975.3	22011.3	24683.9	25372.5	26014.4	26142.8	26136.9	28278.5
60°	13287.3	13684.1	16047.4	21678.6	26183.6	28704.5	29935.8	29953.3	29918.3	32450.9
62.5°	11735.1	12120.2	14442.7	19858.0	26597.9	31779.8	34522.4	34750.0	33145.3	36045.5
65°	9867.7	10182.8	12231.1	17074.5	25495.0	33734.7	37971.2	37702.8	35864.6	38099.6
67°	8070.4	8280.5	10276.2	14658.6	22612.3	32795.1	38969.0	39190.8	37119.2	38187.1
67.5°	7556.9	7749.5	9634.3	13835.8	21515.3	32083.2	39004.1	38969.0	37142.5	38204.6
70°	5246.1	5327.8	6564.9	9517.6	15849.0	27105.6	36156.4	36238.1	35584.5	36133.0
72.5°	3477.9	3600.5	4388.2	5998.8	9342.5	19723.8	30221.7	31097.0	30682.7	29626.5
75°	2240.8	2310.8	2871.0	3571.3	4598.3	11233.2	22326.4	22909.9	21958.7	18323.3
77.5°	1254.6	1330.5	1733.1	2170.8	2240.8	4674.2	12540.4	13263.9	11239.0	7784.5
80°	781.9	881.2	1307.1	1289.6	1067.9	1715.6	5170.2	5537.8	4493.3	2678.5
82.5°	589.4	665.2	1009.5	904.5	601.0	764.4	1937.4	2077.4	1645.6	1032.9
85°	402.6	507.7	729.4	560.2	315.1	367.6	770.3	828.6	752.8	501.8
87.5°	145.9	215.9	379.3	280.1	140.1	110.9	250.9	280.1	268.4	227.6
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°
7743.6	0°	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6	7743.6
7813.6	2.5°	7924.5	8006.2	8047.1	8286.3	8385.5	8368.0	8391.4	8426.4	8461.4
7912.9	5°	7988.7	8239.6	8373.9	8654.0	8840.7	8759.0	8864.0	8834.8	8794.0
8093.7	7.5°	8198.8	8519.7	8922.4	8998.2	9079.9	8875.7	8700.6	8461.4	8403.0
8245.5	10°	8572.3	8834.8	9325.0	9354.2	8992.4	8467.2	8076.2	7580.2	7574.4
8478.9	12.5°	8928.2	9225.8	9622.6	9453.4	8589.8	7872.0	7235.9	6693.2	6465.7
8618.9	15°	9150.0	9640.1	9850.2	9120.8	7883.7	6915.0	6092.2	5508.7	5275.2
8794.0	17.5°	9354.2	10036.9	9943.6	8537.2	7014.2	5928.8	4948.4	4440.8	4376.6
9074.1	20°	9634.3	10182.8	9611.0	7778.6	6028.0	4656.7	4032.3	3787.2	3845.6
9103.3	22.5°	9896.9	10258.7	9190.8	6950.0	4761.7	3688.0	3378.7	3431.2	3518.8
9173.3	25°	10013.6	10381.2	8624.8	5806.3	3623.8	3104.5	3034.4	3122.0	3267.8
9272.5	27.5°	10089.5	10293.7	7942.0	4691.7	2865.2	2713.5	2818.5	2882.7	2900.2
9482.6	30°	10223.7	10112.8	7078.4	3355.4	2404.2	2410.0	2544.3	2544.3	2544.3
9692.7	32.5°	10457.1	9990.3	6068.9	2450.9	2071.6	2258.3	2223.3	2211.6	2188.3
9961.1	35°	10603.0	9657.6	4790.9	1814.8	1861.5	2071.6	2059.9	1879.0	1575.6
10643.8	37.5°	10906.4	9488.4	3524.6	1400.5	1739.0	1978.2	1914.0	1476.4	1143.7
11490.0	40°	11560.0	9377.5	2439.2	1225.4	1657.3	1931.5	1709.8	1260.5	875.3
12797.1	42.5°	12359.5	9383.4	1657.3	1155.4	1663.1	2030.7	1645.6	1079.6	618.6
14541.9	45°	13433.2	9295.8	1137.9	1155.4	1768.1	2194.1	1686.4	980.4	601.0
16730.2	47.5°	14588.6	9371.7	846.1	1050.4	1785.6	2200.0	1540.6	962.8	577.7
19111.1	50°	15936.6	9447.6	700.3	968.7	1791.5	2129.9	1418.0	939.5	601.0
21842.0	52.5°	17325.4	9686.8	595.2	916.2	1861.5	2100.8	1418.0	974.5	601.0
25320.0	55°	19397.0	10299.5	857.8	1143.7	2118.3	2293.3	1744.8	1365.5	840.3
28652.0	57.5°	21684.5	10929.8	957.0	1202.1	2176.6	2065.7	1879.0	1505.5	887.0
31242.9	60°	23190.0	10953.1	951.2	1172.9	2036.6	1785.6	1838.2	1587.2	904.5
32847.7	62.5°	23791.1	10241.2	992.0	1172.9	1896.5	1668.9	1884.8	1709.8	933.7
33302.8	65°	23108.3	8770.7	957.0	1050.4	1668.9	1493.9	1896.5	1733.1	1021.2
32485.9	67°	22040.4	7556.9	974.5	997.9	1552.2	1418.0	1995.7	1820.7	1184.6
32059.9	67.5°	21737.0	7235.9	968.7	968.7	1511.4	1394.7	2019.1	1820.7	1207.9
28296.0	70°	19157.7	5864.6	992.0	957.0	1336.3	1324.6	2147.4	1919.9	1388.8
20785.8	72.5°	14582.8	4446.6	986.2	957.0	1161.3	1266.3	2164.9	1984.0	1511.4
11641.7	75°	8286.3	2661.0	869.5	834.5	916.2	1102.9	2024.9	1890.7	1470.5
4650.8	77.5°	3425.4	1371.3	799.5	752.8	758.6	898.7	1686.4	1762.3	1400.5
1552.2	80°	1278.0	822.8	641.9	601.0	583.5	659.4	1202.1	1406.3	1196.3
682.7	82.5°	665.2	513.5	437.7	437.7	396.8	420.2	647.7	933.7	904.5
274.3	85°	338.5	291.8	250.9	245.1	221.7	198.4	326.8	554.4	519.4
122.5	87.5°	180.9	163.4	105.0	99.2	81.7	52.5	58.4	110.9	180.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
7743.6
8554.7
8840.7
8268.8
7265.1
6278.9
5141.0
4335.7
3839.7
3571.3
3332.0
3034.4
2655.1
2089.1
1493.9
992.0
601.0
484.3
641.9
811.1
892.8
688.6
910.3
863.6
787.8
968.7
945.3
1137.9
1172.9
1295.5
1242.9
1120.4
1009.5
799.5
472.7
274.3
105.0
0.0

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