

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: P477915

Luminaire Tested: **IFLD-L-SA8C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

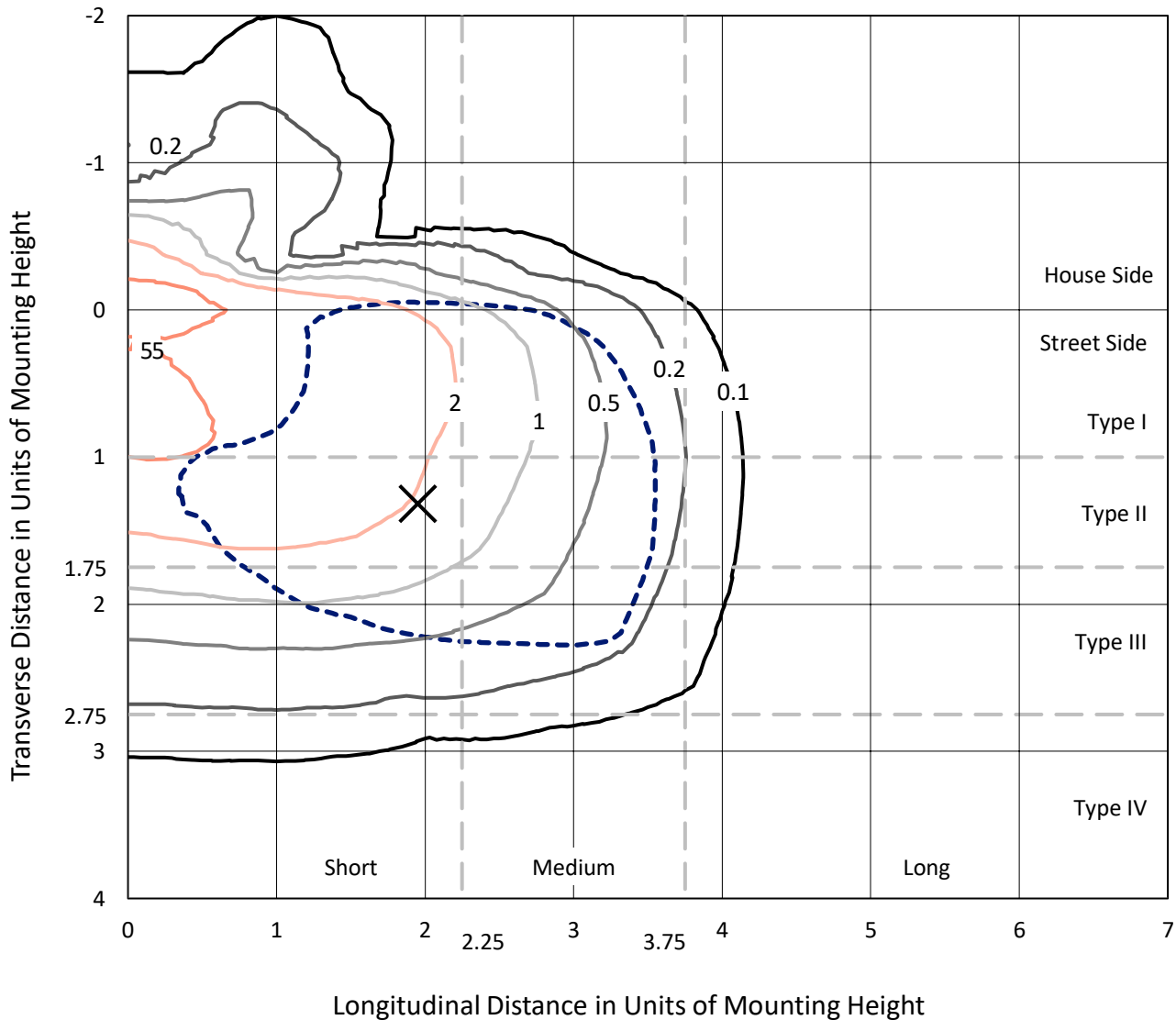
Lumens per Lamp: N/A
Luminaire Lumens: 36583.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

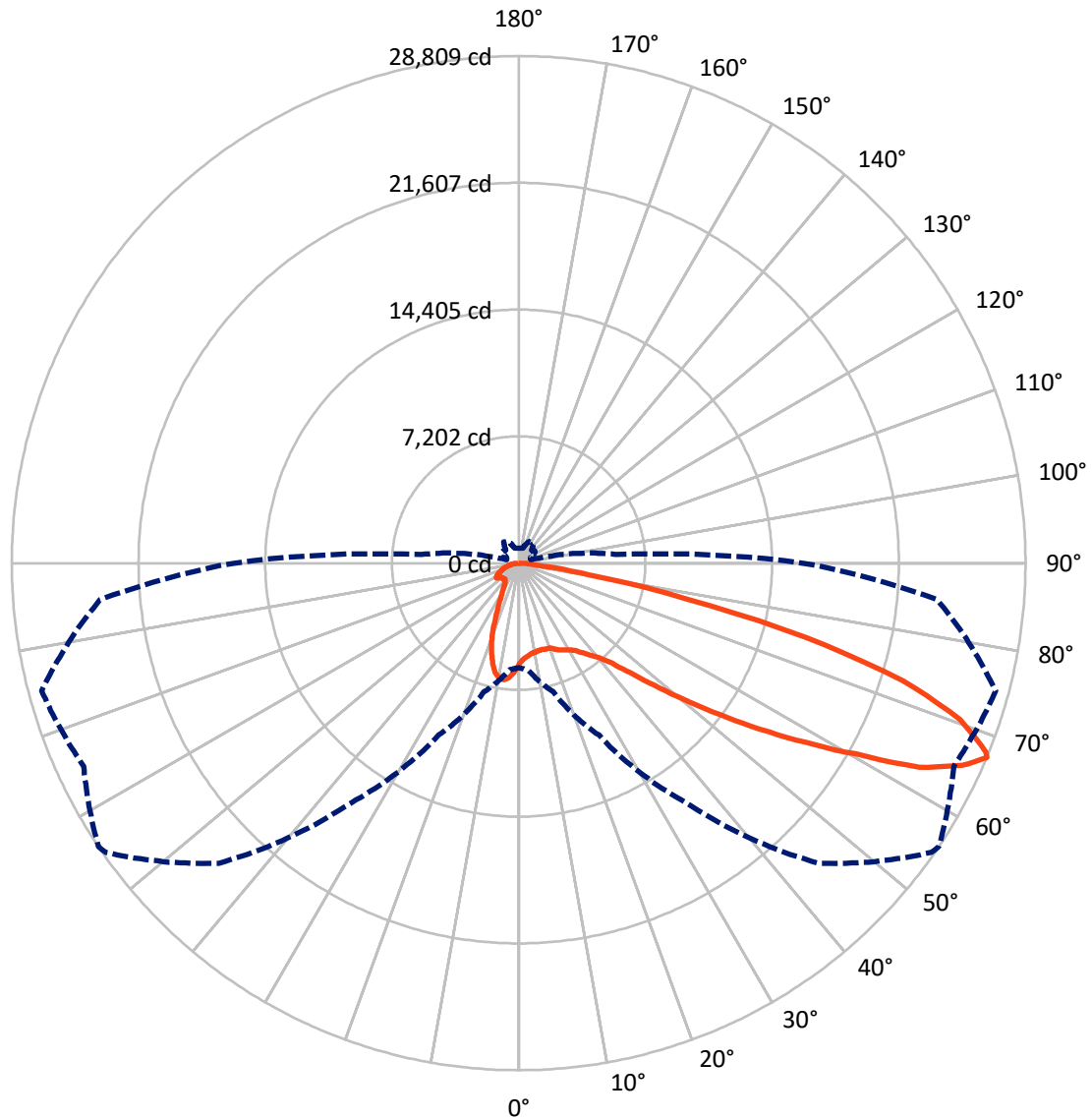
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	5791.6	0.0	5791.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	30792.2	0.0	30792.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	36583.8	0.0	36583.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.4	1.5
10°-20°	1496.1	4.1
20°-30°	2346.3	6.4
30°-40°	3349.3	9.2
40°-50°	5055.1	13.8
50°-60°	8046.9	22.0
60°-70°	10287.3	28.1
70°-80°	5015.7	13.7
80°-90°	438.8	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°	36583.8	100.0
0°-180°	36583.8	100.0

Coefficient of Utilization



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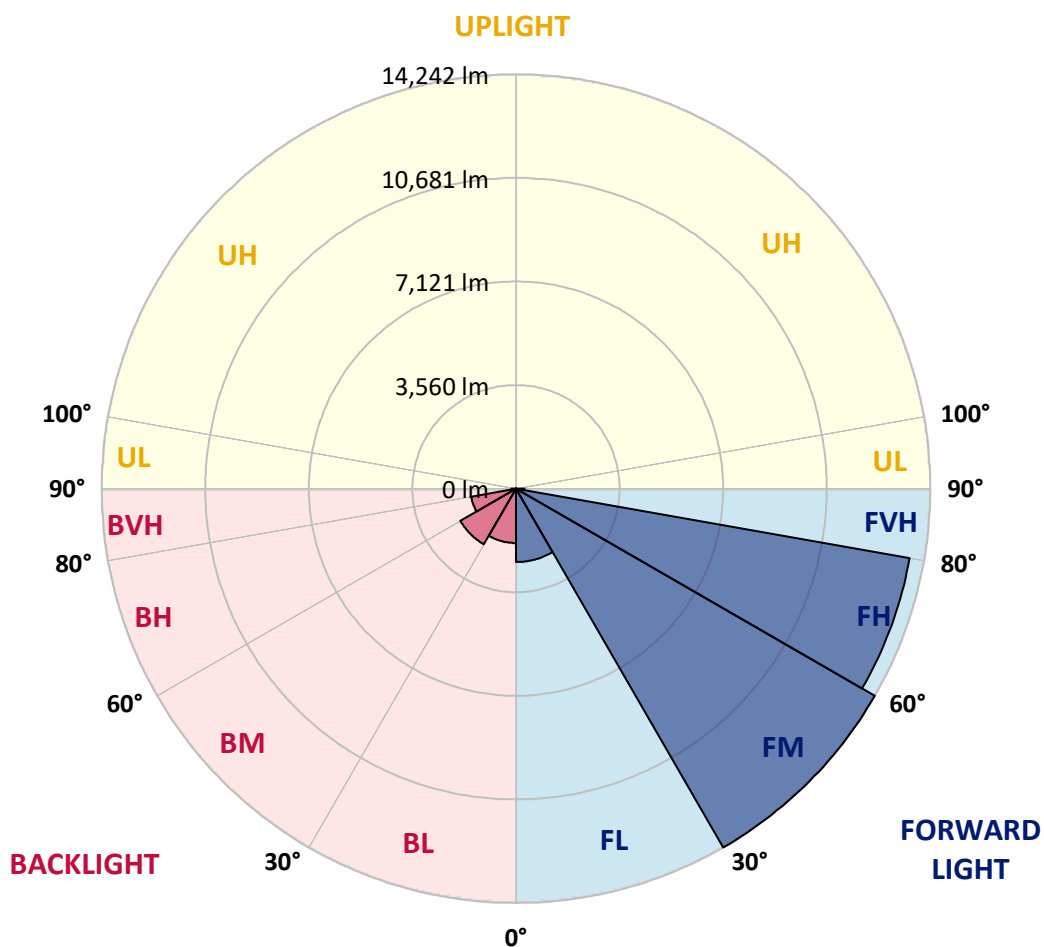
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.0	6.9			
FM (30°-60°)	14241.7	38.9			
FH (60°-80°)	13738.0	37.6			G5
FVH (80°-90°)	291.4	0.8			G3/500
BL (0°-30°)	1869.7	5.1	B3/2500		
BM (30°-60°)	2209.5	6.0	B2/2500		
BH (60°-80°)	1565.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	147.4	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°	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3
2.5°	5229.1	5207.6	5233.3	5207.6	5323.4	5392.1	5413.5	5443.5	5550.8	5653.7
5°	5010.3	4915.9	5018.9	5053.2	5061.8	5177.6	5297.7	5319.1	5374.9	5542.2
7.5°	4645.7	4752.9	4714.3	4817.3	4924.5	5040.3	5237.6	5181.9	5387.8	5546.5
10°	4568.5	4577.0	4619.9	4658.5	4752.9	4903.0	5177.6	5143.3	5353.5	5692.3
12.5°	4645.7	4645.7	4632.8	4602.8	4710.0	4855.9	5074.6	5091.8	5422.1	5735.2
15°	4915.9	4967.4	4830.1	4851.6	4808.7	4855.9	5048.9	5087.5	5447.8	5769.6
17.5°	5576.5	5559.4	5396.4	5169.0	4980.3	4950.2	5083.2	5126.1	5422.1	5868.2
20°	6220.0	6185.6	5902.5	5666.6	5293.4	5117.5	5139.0	5143.3	5465.0	5932.6
22.5°	6936.3	7026.4	6717.6	6237.1	5773.8	5336.3	5250.5	5319.1	5563.6	5966.9
25°	8060.2	7867.2	7601.2	6970.6	6224.3	5675.2	5435.0	5469.3	5658.0	6052.7
27.5°	8871.0	8793.7	8377.6	7867.2	6854.8	5941.1	5533.6	5598.0	5829.6	6048.4
30°	9651.7	9651.7	9398.6	8635.0	7519.7	6387.3	5743.8	5713.8	5748.1	6039.8
32.5°	10565.4	10441.0	10076.3	9570.2	8356.2	6794.8	5911.1	5919.7	5919.7	6198.5
35°	11045.8	11247.4	11002.9	10179.3	8995.4	7472.5	6314.3	6250.0	6202.8	6374.4
37.5°	11749.3	11869.4	11612.0	11127.3	9788.9	8021.6	6670.4	6618.9	6344.4	6511.7
40°	12174.0	12152.5	12143.9	11920.9	10839.9	8669.3	7193.7	7060.7	6691.8	6996.4
42.5°	12414.2	12371.3	12898.9	12761.6	11830.8	9621.6	7850.0	7777.1	7369.6	7858.6
45°	12684.4	13001.9	13435.1	13821.2	12984.7	10960.0	8961.0	8858.1	8493.5	9115.5
47.5°	12920.4	13310.7	13864.1	14275.9	14027.1	12414.2	10333.7	10359.5	10119.2	10758.4
50°	13315.0	13353.6	14104.3	14936.5	15129.5	13756.8	12178.3	12135.4	12028.1	12924.7
52.5°	13194.9	13310.7	14258.7	15322.6	15640.0	15176.7	14160.1	14288.8	14147.2	15275.4
55°	11238.8	11586.3	14164.4	15730.1	16849.7	16781.0	16708.1	16622.3	16613.7	17917.8
57.5°	10350.9	10634.0	12478.5	16180.5	18145.1	18651.3	19123.2	19217.5	19213.2	20787.5
60°	9767.5	10059.2	11796.5	15936.0	19247.6	21100.7	22005.8	22018.7	21992.9	23854.6
62.5°	8626.4	8909.6	10616.8	14597.6	19552.1	23361.3	25377.4	25544.7	24365.1	26497.0
65°	7253.8	7485.4	8991.1	12551.5	18741.4	24798.3	27912.6	27715.3	26364.1	28007.0
67°	5932.6	6087.0	7554.0	10775.5	16622.3	24107.7	28646.1	28809.1	27286.3	28071.3
67.5°	5555.1	5696.6	7082.2	10170.7	15815.9	23584.4	28671.9	28646.1	27303.5	28084.2
70°	3856.4	3916.4	4825.8	6996.4	11650.6	19925.3	26578.5	26638.6	26158.2	26561.4
72.5°	2556.6	2646.7	3225.8	4409.7	6867.7	14498.9	22216.0	22859.4	22554.9	21778.4
75°	1647.2	1698.7	2110.5	2625.3	3380.2	8257.5	16412.1	16841.1	16141.9	13469.4
77.5°	922.3	978.0	1274.0	1595.7	1647.2	3436.0	9218.4	9750.3	8261.8	5722.4
80°	574.8	647.7	960.9	948.0	785.0	1261.2	3800.6	4070.9	3303.0	1968.9
82.5°	433.3	489.0	742.1	664.9	441.8	561.9	1424.2	1527.1	1209.7	759.3
85°	296.0	373.2	536.2	411.8	231.6	270.2	566.2	609.1	553.4	368.9
87.5°	107.2	158.7	278.8	205.9	103.0	81.5	184.5	205.9	197.3	167.3
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°
5692.3	0°	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3	5692.3
5743.8	2.5°	5825.3	5885.4	5915.4	6091.3	6164.2	6151.3	6168.5	6194.2	6220.0	6254.3
5816.7	5°	5872.5	6057.0	6155.6	6361.5	6498.8	6438.7	6515.9	6494.5	6464.5	6460.2
5949.7	7.5°	6026.9	6262.9	6558.8	6614.6	6674.7	6524.5	6395.8	6220.0	6177.1	6026.9
6061.2	10°	6301.5	6494.5	6854.8	6876.3	6610.3	6224.3	5936.8	5572.2	5567.9	5349.2
6232.8	12.5°	6563.1	6781.9	7073.6	6949.2	6314.3	5786.7	5319.1	4920.2	4752.9	4641.4
6335.8	15°	6726.1	7086.5	7240.9	6704.7	5795.3	5083.2	4478.4	4049.4	3877.8	3796.3
6464.5	17.5°	6876.3	7378.2	7309.5	6275.7	5156.1	4358.3	3637.6	3264.4	3217.2	3157.2
6670.4	20°	7082.2	7485.4	7065.0	5718.1	4431.2	3423.1	2964.1	2784.0	2826.9	2852.6
6691.8	22.5°	7275.2	7541.2	6756.2	5108.9	3500.3	2711.0	2483.7	2522.3	2586.6	2672.4
6743.3	25°	7361.0	7631.2	6340.1	4268.2	2663.9	2282.1	2230.6	2295.0	2402.2	2406.5
6816.2	27.5°	7416.8	7566.9	5838.2	3448.9	2106.2	1994.7	2071.9	2119.1	2131.9	2183.4
6970.6	30°	7515.4	7433.9	5203.3	2466.5	1767.3	1771.6	1870.3	1870.3	1870.3	1908.9
7125.1	32.5°	7687.0	7343.8	4461.2	1801.6	1522.8	1660.1	1634.3	1625.8	1608.6	1561.4
7322.4	35°	7794.3	7099.3	3521.8	1334.1	1368.4	1522.8	1514.2	1381.3	1158.2	1046.7
7824.3	37.5°	8017.3	6974.9	2590.9	1029.5	1278.3	1454.2	1407.0	1085.3	840.8	733.5
8446.3	40°	8497.8	6893.4	1793.1	900.8	1218.3	1419.9	1256.9	926.6	643.4	454.7
9407.2	42.5°	9085.4	6897.7	1218.3	849.3	1222.5	1492.8	1209.7	793.6	454.7	364.6
10689.8	45°	9874.7	6833.4	836.5	849.3	1299.8	1612.9	1239.7	720.7	441.8	463.3
12298.4	47.5°	10724.1	6889.1	622.0	772.1	1312.6	1617.2	1132.5	707.8	424.7	536.2
14048.5	50°	11715.0	6944.9	514.8	712.1	1316.9	1565.7	1042.4	690.6	441.8	566.2
16056.1	52.5°	12735.9	7120.8	437.5	673.5	1368.4	1544.3	1042.4	716.4	441.8	493.3
18612.7	55°	14258.7	7571.2	630.6	840.8	1557.1	1685.8	1282.6	1003.8	617.7	634.9
21062.1	57.5°	15940.3	8034.5	703.5	883.7	1600.0	1518.5	1381.3	1106.7	652.0	656.3
22966.7	60°	17047.0	8051.6	699.2	862.2	1497.1	1312.6	1351.2	1166.8	664.9	561.9
24146.3	62.5°	17488.8	7528.3	729.2	862.2	1394.1	1226.8	1385.6	1256.9	686.3	703.5
24480.9	65°	16986.9	6447.3	703.5	772.1	1226.8	1098.1	1394.1	1274.0	750.7	707.8
23880.4	67°	16201.9	5555.1	716.4	733.5	1141.0	1042.4	1467.1	1338.4	870.8	849.3
23567.2	67.5°	15978.9	5319.1	712.1	712.1	1111.0	1025.2	1484.2	1338.4	888.0	879.4
20800.4	70°	14082.9	4311.1	729.2	703.5	982.3	973.7	1578.6	1411.3	1020.9	1029.5
15279.7	72.5°	10719.8	3268.7	724.9	703.5	853.6	930.8	1591.5	1458.5	1111.0	1029.5
8557.8	75°	6091.3	1956.1	639.2	613.4	673.5	810.7	1488.5	1389.8	1081.0	922.3
3418.8	77.5°	2518.0	1008.1	587.7	553.4	557.7	660.6	1239.7	1295.5	1029.5	785.0
1141.0	80°	939.4	604.8	471.9	441.8	429.0	484.7	883.7	1033.8	879.4	643.4
501.9	82.5°	489.0	377.5	321.7	321.7	291.7	308.9	476.1	686.3	664.9	441.8
201.6	85°	248.8	214.5	184.5	180.2	163.0	145.8	240.2	407.5	381.8	244.5
90.1	87.5°	133.0	120.1	77.2	72.9	60.1	38.6	42.9	81.5	133.0	107.2
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



<u>180°</u>
5692.3
6288.6
6498.8
6078.4
5340.6
4615.6
3779.2
3187.2
2822.6
2625.3
2449.4
2230.6
1951.8
1535.7
1098.1
729.2
441.8
356.0
471.9
596.3
656.3
506.2
669.2
634.9
579.1
712.1
694.9
836.5
862.2
952.3
913.7
823.6
742.1
587.7
347.5
201.6
77.2
0.0

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