

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: P477441

Luminaire Tested: **IFLD-L-SA7B-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

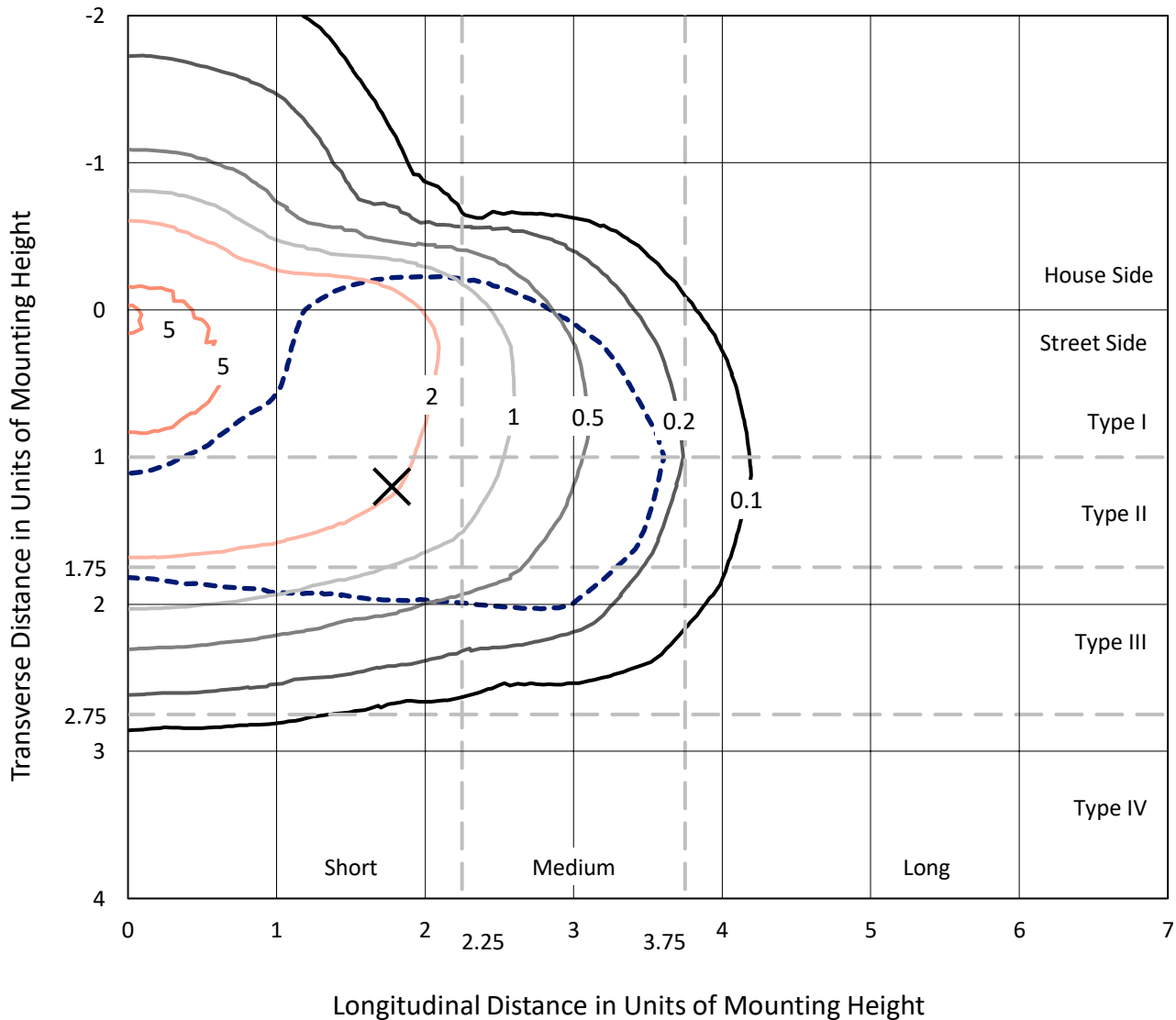
Lumens per Lamp: N/A
Luminaire Lumens: 37102.3 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

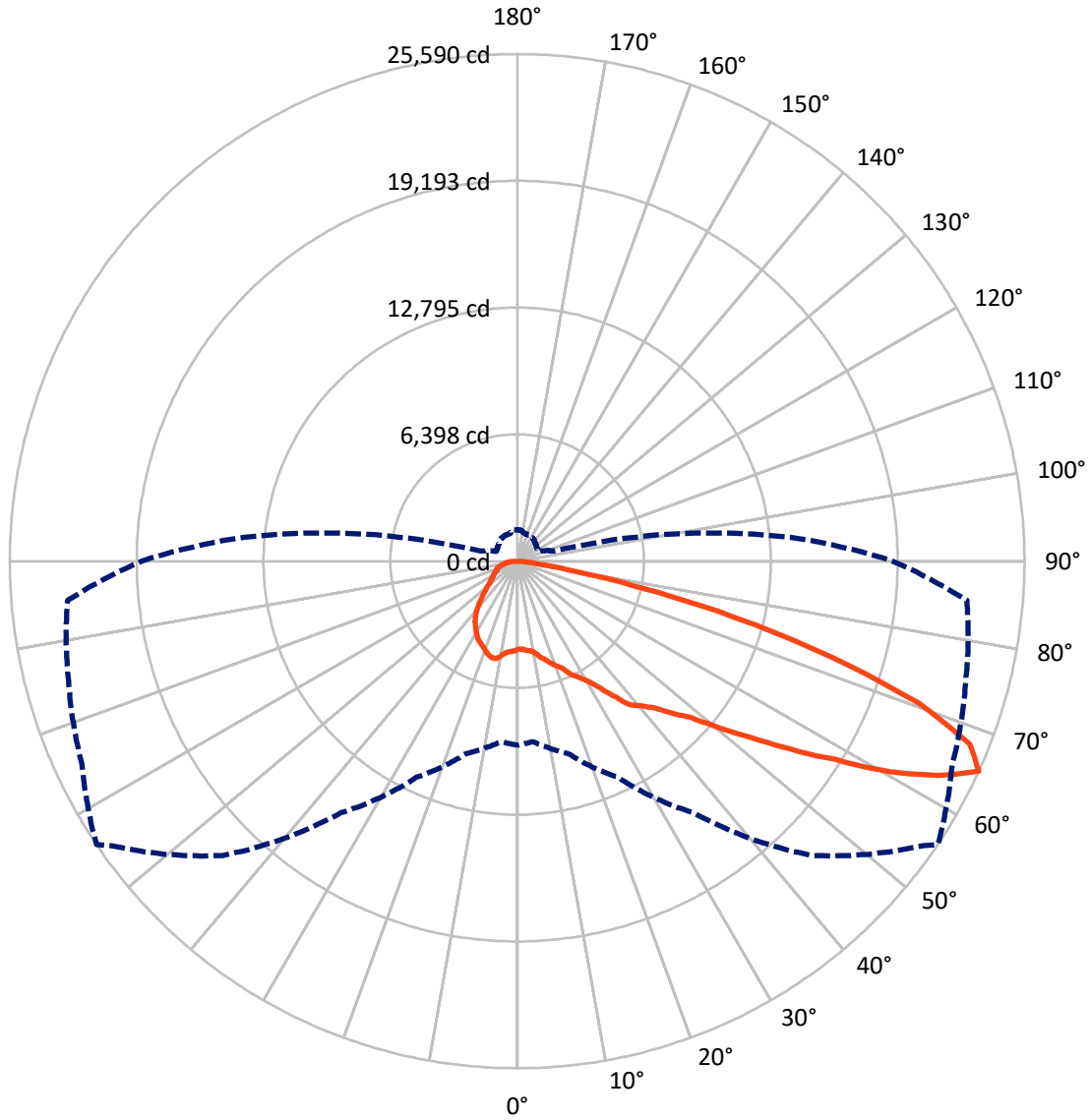
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	8320.8	0.0	8320.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28781.4	0.0	28781.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	37102.3	0.0	37102.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.3	1.2
10°-20°	1433.0	3.9
20°-30°	2551.5	6.9
30°-40°	3820.8	10.3
40°-50°	5661.0	15.3
50°-60°	8722.9	23.5
60°-70°	9875.4	26.6
70°-80°	4098.4	11.0
80°-90°	497.9	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°	37102.3	100.0
0°-180°	37102.3	100.0

Coefficient of Utilization

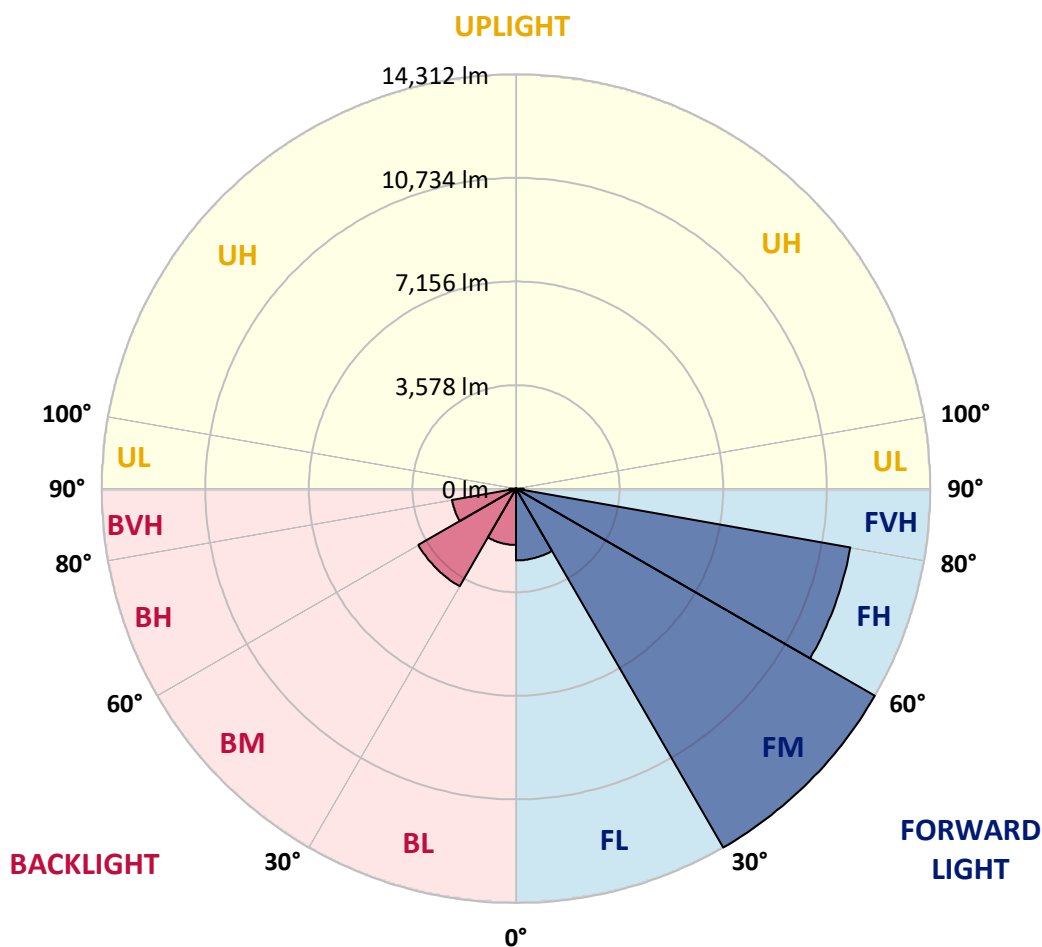


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.5	6.7			
FM (30°-60°)	14312.4	38.6			
FH (60°-80°)	11726.9	31.6			G4/12000
FVH (80°-90°)	262.6	0.7			G3/500
BL (0°-30°)	1946.3	5.2	B3/2500		
BM (30°-60°)	3892.3	10.5	B3/5000		
BH (60°-80°)	2246.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	235.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3
2.5°	4336.9	4360.1	4344.6	4391.2	4430.0	4430.0	4461.1	4437.8	4468.9	4511.6
5°	4480.5	4387.3	4437.8	4461.1	4449.4	4468.9	4437.8	4515.5	4465.0	4546.5
7.5°	4515.5	4550.4	4593.1	4554.3	4589.2	4569.8	4573.7	4562.0	4534.9	4600.9
10°	4771.7	4721.2	4818.3	4760.1	4752.3	4744.5	4729.0	4670.8	4736.8	4740.6
12.5°	5066.8	5020.2	5016.3	4969.7	5031.8	4919.2	4942.5	4911.5	4923.1	4938.7
15°	5280.3	5260.9	5350.2	5295.9	5214.3	5163.8	5218.2	5132.8	5175.5	5167.7
17.5°	5703.5	5699.6	5633.6	5544.3	5497.7	5424.0	5412.3	5377.4	5408.4	5392.9
20°	5998.6	6041.3	6053.0	5948.1	5769.5	5688.0	5668.6	5641.4	5676.3	5664.7
22.5°	6449.0	6383.0	6433.4	6251.0	6185.0	5990.8	5920.9	5882.1	6049.1	6006.4
25°	6736.3	6806.2	6755.7	6693.6	6546.0	6305.3	6254.8	6340.3	6406.3	6359.7
27.5°	7384.7	7314.8	7268.2	7081.8	6984.8	6732.4	6674.2	6643.1	6658.6	6685.8
30°	7877.8	7916.6	7811.8	7679.8	7435.2	7178.9	7043.0	7015.8	6961.5	6914.9
32.5°	8580.5	8522.3	8460.2	8374.7	8165.1	7827.3	7695.3	7594.3	7431.3	7213.8
35°	8918.3	9085.3	9038.7	8809.6	8650.4	8522.3	8483.5	8328.2	8192.3	7850.6
37.5°	9481.3	9551.2	9485.2	9411.4	9337.6	9201.7	9155.1	9197.9	8930.0	8367.0
40°	9846.2	9993.8	10129.7	9923.9	9908.4	9935.5	9648.2	9597.8	9046.4	8751.4
42.5°	10591.7	10653.8	10681.0	10673.2	10762.5	10762.5	10215.1	10106.4	9714.2	9473.5
45°	11577.9	11628.4	11725.4	11795.3	11694.4	11744.8	10964.4	10921.7	10572.3	10525.7
47.5°	12432.0	12552.4	12769.8	12975.6	13107.6	12936.8	12082.6	11779.8	11690.5	11970.0
50°	13177.5	13033.8	13542.5	13752.1	14330.6	14614.1	13317.3	13196.9	13053.3	13589.1
52.5°	13251.3	13445.4	14163.7	14583.0	15775.0	16299.1	14831.5	14781.0	14606.3	15223.6
55°	13779.3	13756.0	14478.2	15386.7	16803.8	17685.2	16803.8	16772.8	16392.3	16978.6
57.5°	13690.0	13926.8	14497.6	15767.2	17731.8	19172.2	19090.7	18877.1	18345.2	18822.8
60°	13387.2	13449.3	14144.3	15755.5	18271.5	20698.1	21560.0	21602.7	20515.6	20896.1
62.5°	11671.1	11814.7	12696.1	14517.0	17887.1	21750.3	23971.1	23819.7	22950.0	22515.1
65°	9283.3	9139.6	10055.9	12024.4	15495.4	21004.8	25027.2	25590.1	24223.5	23427.5
67.5°	5691.9	5656.9	6538.3	8273.8	11593.4	17875.4	24184.6	24623.4	23870.2	23233.4
70°	2931.4	2842.1	3393.4	4616.4	7287.6	13115.4	21047.5	21478.5	22196.8	20837.9
72.5°	1366.7	1347.3	1642.3	2271.3	3711.8	7710.8	16299.1	16609.7	18123.9	17568.7
75°	803.7	815.3	982.3	1188.1	1809.3	3634.1	10816.9	11418.7	13061.0	12661.1
77.5°	601.8	601.8	698.9	827.0	1056.1	1405.5	5338.6	6134.5	7637.1	6868.3
80°	442.6	450.4	535.8	621.2	733.8	726.0	2119.9	2484.9	3502.1	2993.5
82.5°	345.6	357.2	415.4	462.0	516.4	438.7	869.7	935.7	1440.4	1145.4
85°	240.7	248.5	326.1	314.5	314.5	244.6	361.1	380.5	570.7	543.6
87.5°	58.2	66.0	159.2	174.7	132.0	73.8	112.6	128.1	205.8	236.8
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°
4453.3	0°	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3
4531.0	2.5°	4472.7	4488.3	4554.3	4519.3	4538.7	4457.2	4523.2	4468.9	4515.5	4492.2
4565.9	5°	4597.0	4562.0	4600.9	4573.7	4573.7	4604.7	4651.3	4616.4	4686.3	4655.2
4593.1	7.5°	4647.5	4651.3	4674.6	4678.5	4659.1	4756.2	4760.1	4748.4	4814.4	4798.9
4779.5	10°	4771.7	4775.6	4818.3	4841.6	4822.2	4857.1	4818.3	4787.2	4783.3	4767.8
4927.0	12.5°	4969.7	5008.5	5000.8	5020.2	5024.1	4876.5	4787.2	4635.8	4616.4	4635.8
5144.4	15°	5152.2	5136.7	5144.4	5183.3	5020.2	4783.3	4624.2	4496.0	4503.8	4507.7
5427.9	17.5°	5369.6	5381.3	5392.9	5214.3	4915.4	4635.8	4496.0	4496.0	4457.2	4472.7
5625.9	20°	5618.1	5571.5	5470.6	5218.2	4732.9	4465.0	4422.3	4422.3	4375.7	4344.6
5839.4	22.5°	5812.2	5719.1	5567.6	5097.8	4569.8	4399.0	4294.1	4220.4	4166.0	4103.9
6076.3	25°	5936.5	5886.0	5590.9	4973.6	4449.4	4224.3	4069.0	3956.4	3886.5	3804.9
6262.6	27.5°	6126.7	6029.7	5656.9	4829.9	4317.4	4049.5	3808.8	3634.1	3502.1	3416.7
6546.0	30°	6383.0	6243.2	5610.3	4624.2	4115.5	3746.7	3463.3	3238.1	3086.7	3016.8
6813.9	32.5°	6592.6	6410.2	5571.5	4437.8	3890.4	3440.0	3063.4	2834.3	2748.9	2659.6
7264.3	35°	6992.5	6631.5	5544.3	4333.0	3688.5	3133.2	2737.2	2539.2	2430.5	2298.5
7532.2	37.5°	7299.3	7015.8	5478.3	4115.5	3428.3	2834.3	2488.7	2310.1	2147.1	2007.3
8153.4	40°	7780.7	7551.6	5482.2	3808.8	3121.6	2578.0	2294.6	2108.2	1902.5	1782.1
9073.6	42.5°	8685.3	8079.7	5505.5	3564.2	2776.1	2368.4	2119.9	1898.6	1692.8	1591.9
10121.9	45°	9795.8	8805.7	5361.9	3342.9	2422.7	2170.4	1910.2	1688.9	1556.9	1483.1
11546.8	47.5°	11073.1	9516.2	5167.7	2927.5	2127.7	1960.7	1716.1	1588.0	1490.9	1448.2
13383.3	50°	12501.9	10533.5	5113.4	2547.0	1898.6	1782.1	1622.9	1525.9	1459.9	1409.4
15452.7	52.5°	14342.3	11717.7	5004.7	2154.8	1700.6	1638.5	1588.0	1522.0	1463.7	1421.0
17382.3	55°	16101.1	13030.0	4888.2	1832.6	1560.8	1568.6	1595.7	1537.5	1487.0	1421.0
19544.9	57.5°	18081.2	14369.5	4457.2	1595.7	1456.0	1533.6	1588.0	1522.0	1471.5	1421.0
21758.0	60°	19304.2	15122.7	3614.7	1390.0	1362.8	1467.6	1541.4	1471.5	1417.1	1436.6
22775.3	62.5°	19801.2	14726.7	2725.6	1261.8	1296.8	1378.3	1467.6	1440.4	1401.6	1475.4
22763.6	65°	18954.8	13814.2	1949.1	1153.1	1207.5	1289.0	1401.6	1432.7	1444.3	1588.0
20907.7	67.5°	16866.0	12028.3	1432.7	1063.8	1114.3	1234.7	1448.2	1498.7	1490.9	1669.5
17545.4	70°	13495.9	9407.5	1118.2	990.1	1079.4	1277.4	1514.2	1514.2	1459.9	1669.5
13383.3	72.5°	9819.1	6631.5	962.9	904.6	990.1	1172.5	1506.4	1502.6	1432.7	1525.9
8522.3	75°	5944.2	3859.3	850.3	819.2	850.3	1005.6	1440.4	1417.1	1320.1	1312.3
4100.0	77.5°	2962.4	1941.3	695.0	726.0	741.6	842.5	1265.7	1300.7	1168.7	1137.6
1619.0	80°	1250.2	846.4	578.5	625.1	625.1	710.5	1052.2	1075.5	970.6	912.4
640.6	82.5°	570.7	485.3	493.1	543.6	508.6	551.3	834.8	861.9	788.2	691.1
271.8	85°	240.7	275.7	376.6	427.1	376.6	357.2	574.6	605.7	512.5	427.1
116.5	87.5°	108.7	151.4	236.8	310.6	190.2	167.0	306.7	318.4	256.3	190.2
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°
4453.3
4449.4
4612.5
4775.6
4767.8
4643.6
4562.0
4476.6
4298.0
4069.0
3820.5
3455.5
3055.6
2655.7
2286.8
2011.2
1793.8
1599.6
1498.7
1440.4
1417.1
1417.1
1417.1
1417.1
1421.0
1456.0
1588.0
1681.2
1634.6
1471.5
1296.8
1118.2
893.0
675.6
431.0
178.6
0.0

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