

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: P477328

Luminaire Tested: **IFLD-L-SA8A-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477328
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

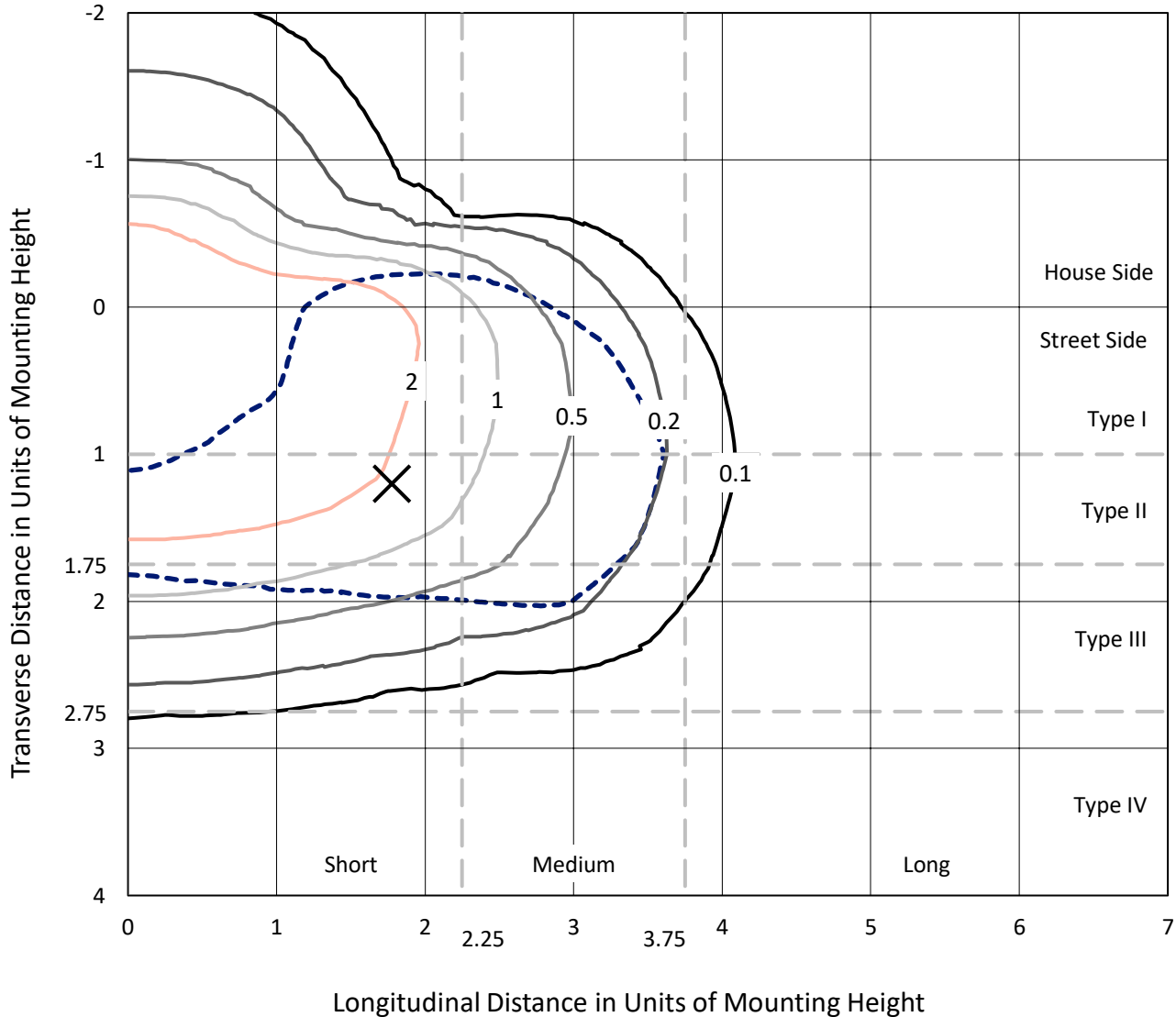
Lumens per Lamp: N/A
Luminaire Lumens: 31771.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

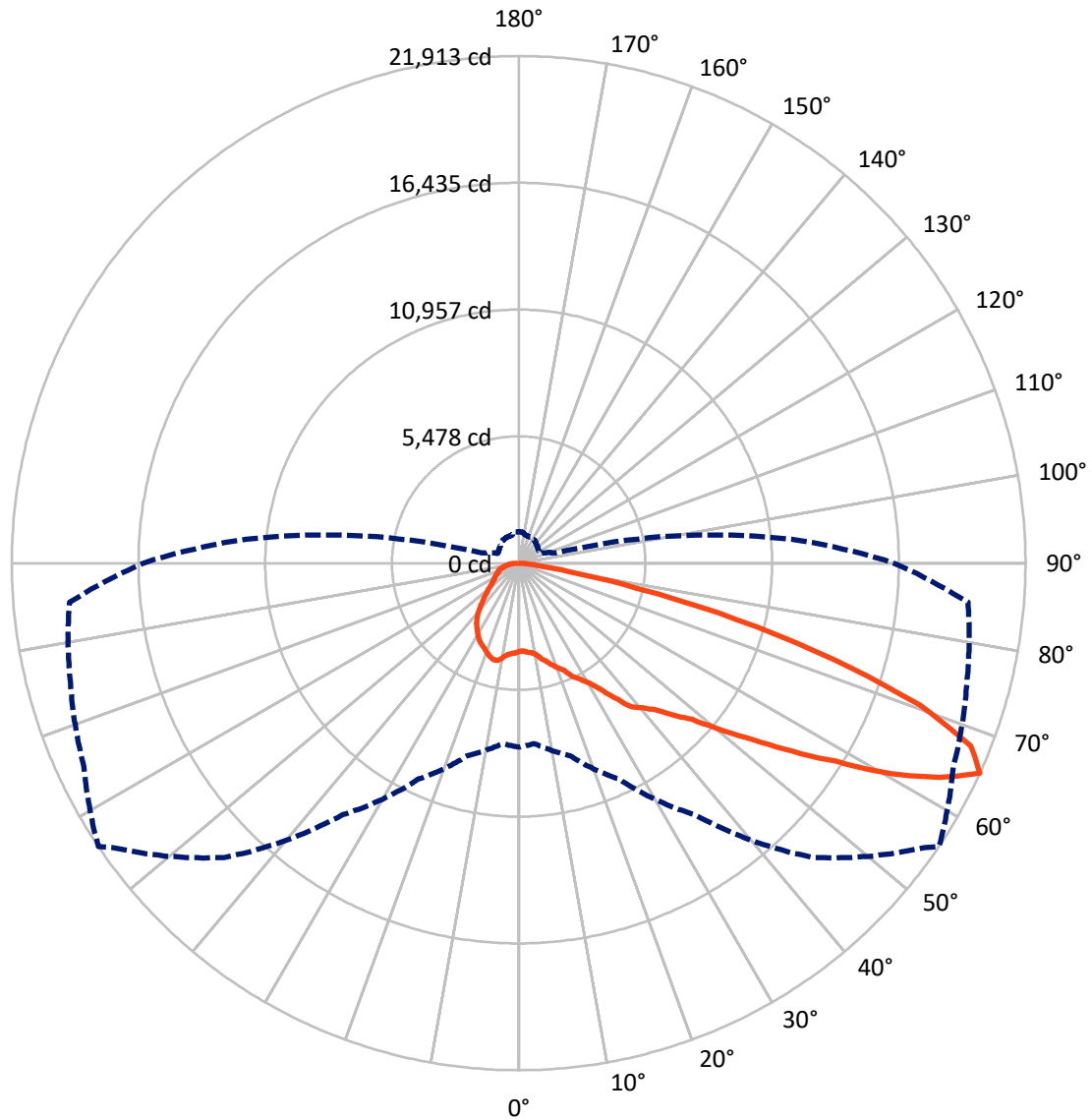
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	7125.3	0.0	7125.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	24646.1	0.0	24646.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	31771.5	0.0	31771.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	1.2
10°-20°	1227.1	3.9
20°-30°	2184.9	6.9
30°-40°	3271.9	10.3
40°-50°	4847.7	15.3
50°-60°	7469.6	23.5
60°-70°	8456.5	26.6
70°-80°	3509.5	11.0
80°-90°	426.4	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°	31771.5	100.0
0°-180°	31771.5	100.0

Coefficient of Utilization

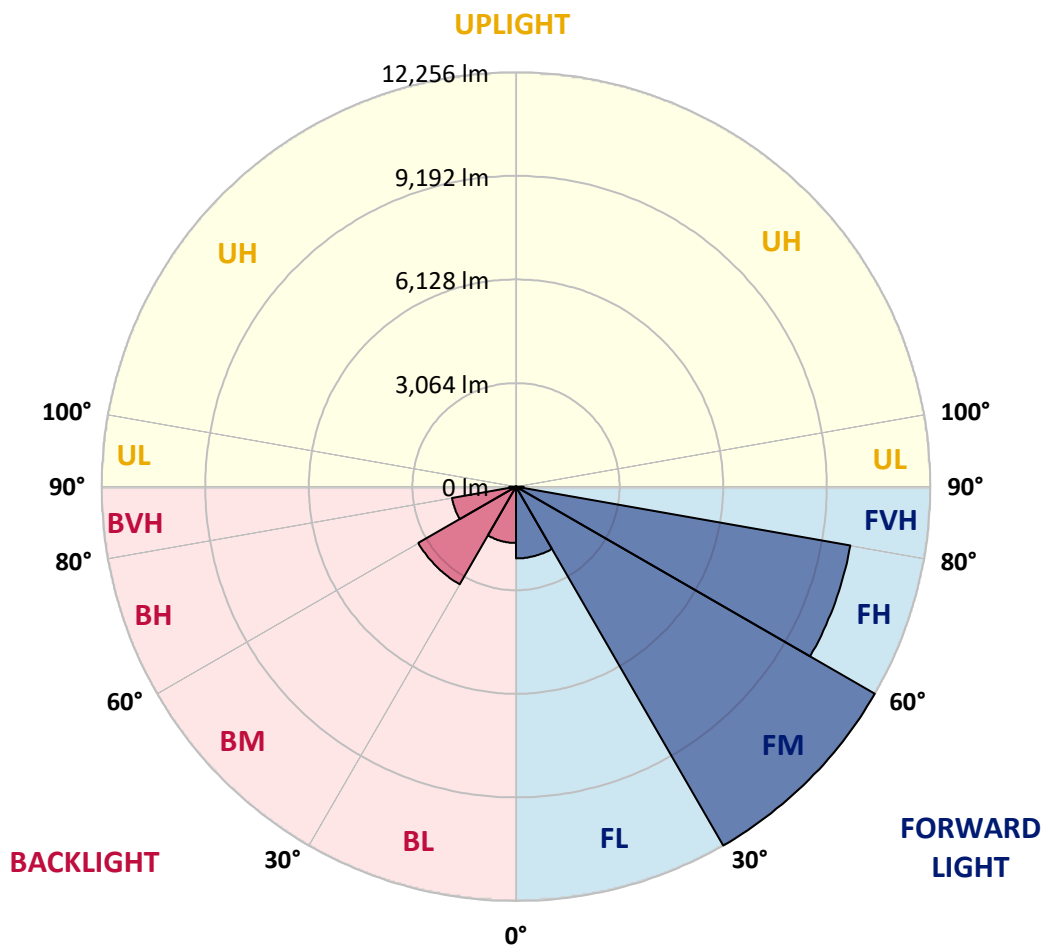


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.3	6.7			
FM (30°-60°)	12256.0	38.6			
FH (60°-80°)	10042.0	31.6			G4/12000
FVH (80°-90°)	224.9	0.7			G2/225
BL (0°-30°)	1666.7	5.2	B3/2500		
BM (30°-60°)	3333.1	10.5	B3/5000		
BH (60°-80°)	1924.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	201.5	0.6			G2/225
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°	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5
2.5°	3713.7	3733.7	3720.4	3760.3	3793.5	3793.5	3820.1	3800.2	3826.8	3863.4
5°	3836.8	3757.0	3800.2	3820.1	3810.2	3826.8	3800.2	3866.7	3823.5	3893.3
7.5°	3866.7	3896.6	3933.2	3899.9	3929.8	3913.2	3916.5	3906.6	3883.3	3939.8
10°	4086.1	4042.9	4126.0	4076.1	4069.5	4062.8	4049.5	3999.7	4056.2	4059.5
12.5°	4338.8	4298.9	4295.6	4255.7	4308.9	4212.4	4232.4	4205.8	4215.8	4229.1
15°	4521.7	4505.0	4581.5	4535.0	4465.1	4421.9	4468.5	4395.3	4431.9	4425.2
17.5°	4884.0	4880.7	4824.2	4747.7	4707.8	4644.7	4634.7	4604.8	4631.4	4618.1
20°	5136.7	5173.3	5183.3	5093.5	4940.6	4870.7	4854.1	4830.9	4860.8	4850.8
22.5°	5522.4	5465.9	5509.1	5352.8	5296.3	5130.1	5070.2	5037.0	5180.0	5143.4
25°	5768.4	5828.3	5785.1	5731.9	5605.5	5399.4	5356.2	5429.3	5485.8	5445.9
27.5°	6323.7	6263.8	6223.9	6064.3	5981.2	5765.1	5715.2	5688.6	5701.9	5725.2
30°	6745.9	6779.2	6689.4	6576.3	6366.9	6147.5	6031.1	6007.8	5961.3	5921.4
32.5°	7347.7	7297.8	7244.6	7171.5	6991.9	6702.7	6589.6	6503.2	6363.6	6177.4
35°	7636.9	7779.9	7740.0	7543.8	7407.5	7297.8	7264.6	7131.6	7015.2	6722.6
37.5°	8119.0	8178.9	8122.3	8059.2	7996.0	7879.6	7839.7	7876.3	7646.9	7164.8
40°	8431.5	8557.9	8674.3	8498.0	8484.7	8508.0	8262.0	8218.8	7746.7	7494.0
42.5°	9069.9	9123.1	9146.4	9139.7	9216.2	9216.2	8747.4	8654.3	8318.5	8112.4
45°	9914.4	9957.6	10040.7	10100.6	10014.1	10057.3	9389.1	9352.5	9053.3	9013.4
47.5°	10645.8	10748.9	10935.1	11111.3	11224.3	11078.0	10346.6	10087.3	10010.8	10250.2
50°	11284.2	11161.2	11596.7	11776.2	12271.6	12514.3	11403.9	11300.8	11177.8	11636.6
52.5°	11347.3	11513.6	12128.7	12487.7	13508.4	13957.3	12700.5	12657.3	12507.7	13036.3
55°	11799.5	11779.6	12398.0	13176.0	14389.5	15144.2	14389.5	14362.9	14037.1	14539.1
57.5°	11723.0	11925.9	12414.6	13501.8	15184.1	16417.6	16347.8	16164.9	15709.4	16118.4
60°	11463.7	11516.9	12112.0	13491.8	15646.2	17724.2	18462.3	18498.9	17567.9	17893.8
62.5°	9994.2	10117.2	10871.9	12431.2	15317.1	18625.2	20527.0	20397.3	19652.6	19280.2
65°	7949.5	7826.4	8611.1	10296.7	13269.1	17986.9	21431.3	21913.4	20743.1	20061.5
67.5°	4874.1	4844.2	5598.9	7085.0	9927.7	15307.1	20709.8	21085.5	20440.5	19895.3
70°	2510.2	2433.7	2905.8	3953.1	6240.5	11231.0	18023.4	18392.5	19007.6	17843.9
72.5°	1170.3	1153.7	1406.4	1945.0	3178.5	6602.9	13957.3	14223.3	15519.9	15044.5
75°	688.2	698.2	841.2	1017.4	1549.3	3112.0	9262.7	9778.1	11184.4	10842.0
77.5°	515.3	515.3	598.5	708.2	904.3	1203.6	4571.5	5253.1	6539.8	5881.5
80°	379.0	385.7	458.8	532.0	628.4	621.7	1815.3	2127.8	2998.9	2563.4
82.5°	295.9	305.9	355.7	395.6	442.2	375.7	744.7	801.3	1233.5	980.8
85°	206.1	212.8	279.3	269.3	269.3	209.5	309.2	325.8	488.7	465.5
87.5°	49.9	56.5	136.3	149.6	113.0	63.2	96.4	109.7	176.2	202.8
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°
3813.5	0°	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5	3813.5
3880.0	2.5°	3830.1	3843.4	3899.9	3870.0	3886.6	3816.8	3873.3	3826.8	3866.7	3846.7
3909.9	5°	3936.5	3906.6	3939.8	3916.5	3916.5	3943.1	3983.0	3953.1	4013.0	3986.4
3933.2	7.5°	3979.7	3983.0	4003.0	4006.3	3989.7	4072.8	4076.1	4066.2	4122.7	4109.4
4092.8	10°	4086.1	4089.4	4126.0	4146.0	4129.3	4159.3	4126.0	4099.4	4096.1	4082.8
4219.1	12.5°	4255.7	4288.9	4282.3	4298.9	4302.2	4175.9	4099.4	3969.7	3953.1	3969.7
4405.3	15°	4411.9	4398.6	4405.3	4438.5	4298.9	4096.1	3959.8	3850.1	3856.7	3860.0
4648.0	17.5°	4598.1	4608.1	4618.1	4465.1	4209.1	3969.7	3850.1	3850.1	3816.8	3830.1
4817.6	20°	4810.9	4771.0	4684.6	4468.5	4052.9	3823.5	3786.9	3786.9	3747.0	3720.4
5000.4	22.5°	4977.1	4897.3	4767.7	4365.4	3913.2	3766.9	3677.2	3614.0	3567.4	3514.3
5203.2	25°	5083.5	5040.3	4787.6	4259.0	3810.2	3617.3	3484.3	3387.9	3328.1	3258.2
5362.8	27.5°	5246.4	5163.3	4844.2	4136.0	3697.1	3467.7	3261.6	3112.0	2998.9	2925.8
5605.5	30°	5465.9	5346.2	4804.3	3959.8	3524.2	3208.4	2965.7	2772.8	2643.2	2583.3
5834.9	32.5°	5645.4	5489.2	4771.0	3800.2	3331.4	2945.7	2623.2	2427.1	2353.9	2277.4
6220.6	35°	5987.9	5678.7	4747.7	3710.4	3158.5	2683.1	2343.9	2174.4	2081.3	1968.2
6450.0	37.5°	6250.5	6007.8	4691.2	3524.2	2935.7	2427.1	2131.2	1978.2	1838.6	1718.9
6982.0	40°	6662.8	6466.6	4694.5	3261.6	2673.1	2207.6	1964.9	1805.3	1629.1	1526.1
7769.9	42.5°	7437.5	6918.8	4714.5	3052.1	2377.2	2028.1	1815.3	1625.8	1449.6	1363.1
8667.6	45°	8388.3	7540.5	4591.5	2862.6	2074.6	1858.5	1635.8	1446.3	1333.2	1270.1
9887.8	47.5°	9482.2	8148.9	4425.2	2506.9	1822.0	1679.0	1469.5	1359.8	1276.7	1240.1
11460.4	50°	10705.7	9020.0	4378.7	2181.0	1625.8	1526.1	1389.7	1306.6	1250.1	1206.9
13232.5	52.5°	12281.6	10034.1	4285.6	1845.2	1456.2	1403.0	1359.8	1303.3	1253.4	1216.9
14884.9	55°	13787.7	11157.8	4185.9	1569.3	1336.5	1343.2	1366.5	1316.6	1273.4	1216.9
16736.8	57.5°	15483.3	12304.9	3816.8	1366.5	1246.8	1313.3	1359.8	1303.3	1260.1	1216.9
18631.9	60°	16530.6	12949.9	3095.3	1190.3	1167.0	1256.8	1319.9	1260.1	1213.5	1230.2
19502.9	62.5°	16956.2	12610.8	2334.0	1080.5	1110.5	1180.3	1256.8	1233.5	1200.2	1263.4
19493.0	65°	16231.4	11829.4	1669.0	987.4	1034.0	1103.8	1200.2	1226.8	1236.8	1359.8
17903.7	67.5°	14442.7	10300.1	1226.8	911.0	954.2	1057.3	1240.1	1283.4	1276.7	1429.6
15024.5	70°	11556.8	8055.9	957.5	847.8	924.3	1093.8	1296.6	1296.6	1250.1	1429.6
11460.4	72.5°	8408.3	5678.7	824.5	774.7	847.8	1004.1	1290.0	1286.7	1226.8	1306.6
7297.8	75°	5090.2	3304.8	728.1	701.5	728.1	861.1	1233.5	1213.5	1130.4	1123.8
3510.9	77.5°	2536.8	1662.4	595.1	621.7	635.0	721.5	1083.9	1113.8	1000.7	974.1
1386.4	80°	1070.6	724.8	495.4	535.3	535.3	608.4	901.0	921.0	831.2	781.3
548.6	82.5°	488.7	415.6	422.2	465.5	435.5	472.1	714.8	738.1	674.9	591.8
232.7	85°	206.1	236.1	322.5	365.7	322.5	305.9	492.1	518.7	438.9	365.7
99.7	87.5°	93.1	129.7	202.8	266.0	162.9	143.0	262.7	272.6	219.4	162.9
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>
3813.5
3810.2
3949.8
4089.4
4082.8
3976.4
3906.6
3833.4
3680.5
3484.3
3271.5
2959.0
2616.6
2274.1
1958.3
1722.2
1536.0
1369.8
1283.4
1233.5
1213.5
1213.5
1213.5
1213.5
1216.9
1246.8
1359.8
1439.6
1399.7
1260.1
1110.5
957.5
764.7
578.5
369.0
152.9
0.0

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