

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: P477563

Luminaire Tested: **IFLD-L-SA8B-830-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

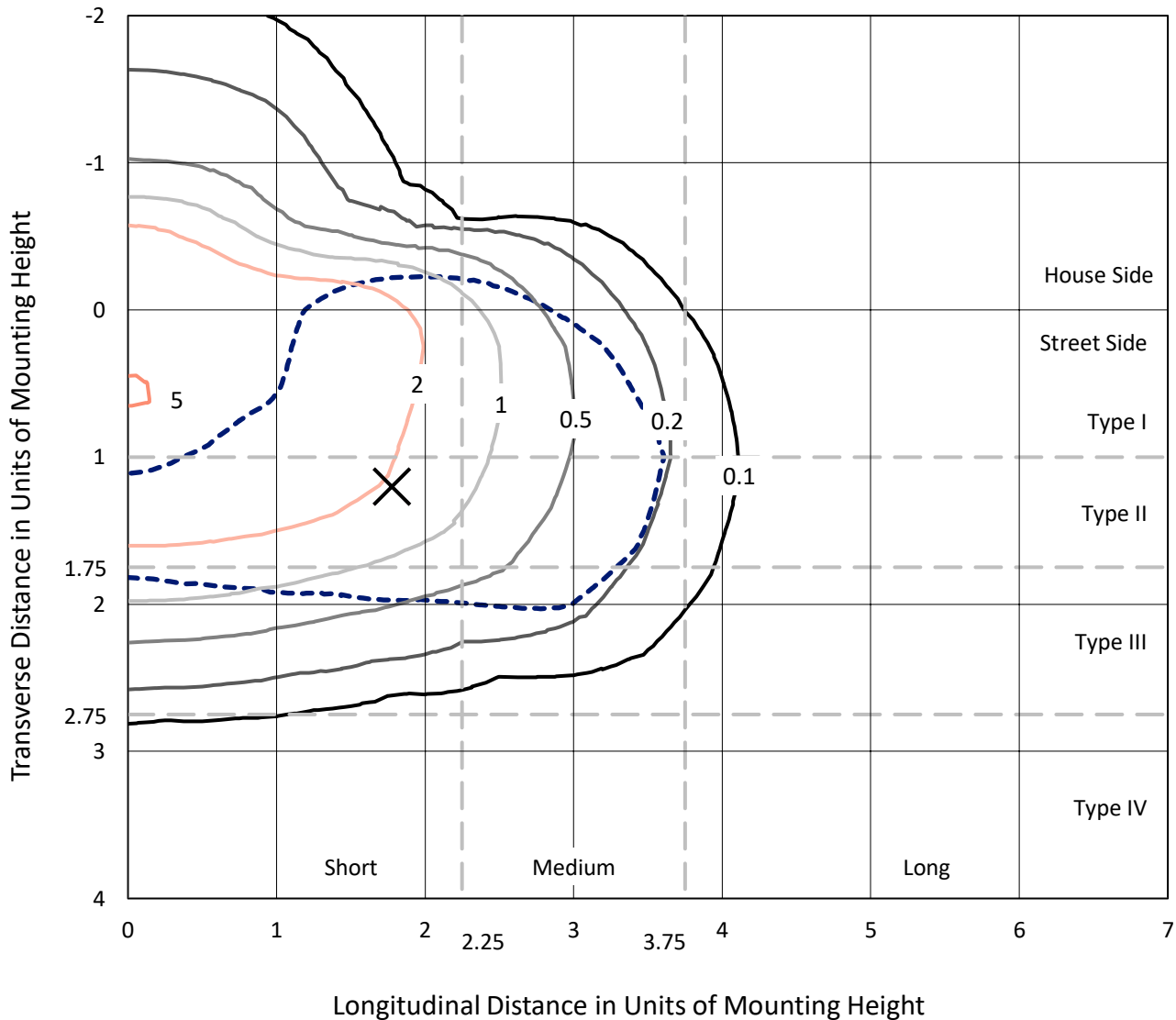
Lumens per Lamp: N/A
Luminaire Lumens: 32938.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

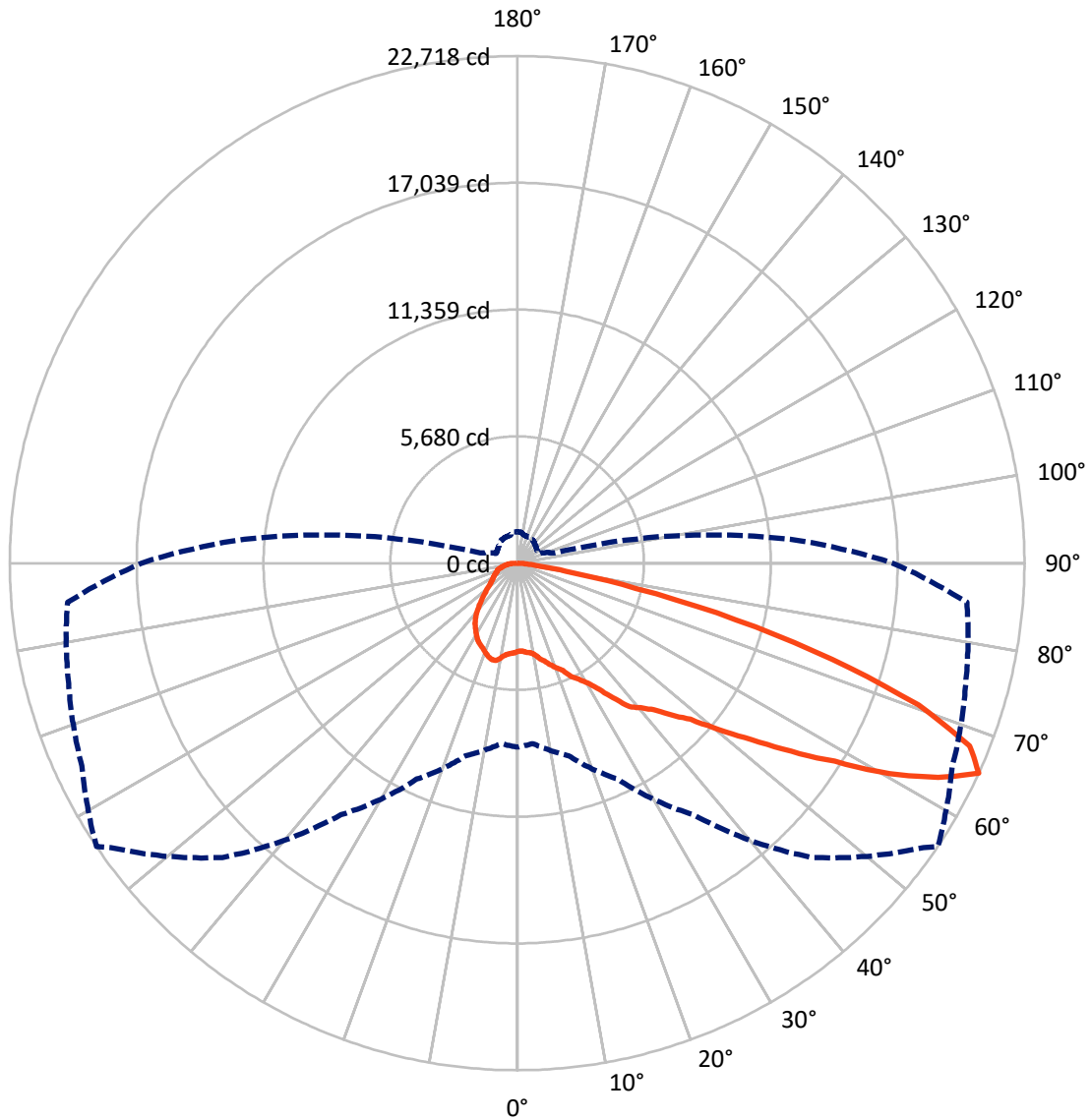
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	7387.0	0.0	7387.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	25551.2	0.0	25551.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	32938.1	0.0	32938.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.2
10°-20°	1272.2	3.9
20°-30°	2265.2	6.9
30°-40°	3392.0	10.3
40°-50°	5025.7	15.3
50°-60°	7743.9	23.5
60°-70°	8767.0	26.6
70°-80°	3638.4	11.0
80°-90°	442.0	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°	32938.1	100.0
0°-180°	32938.1	100.0

Coefficient of Utilization



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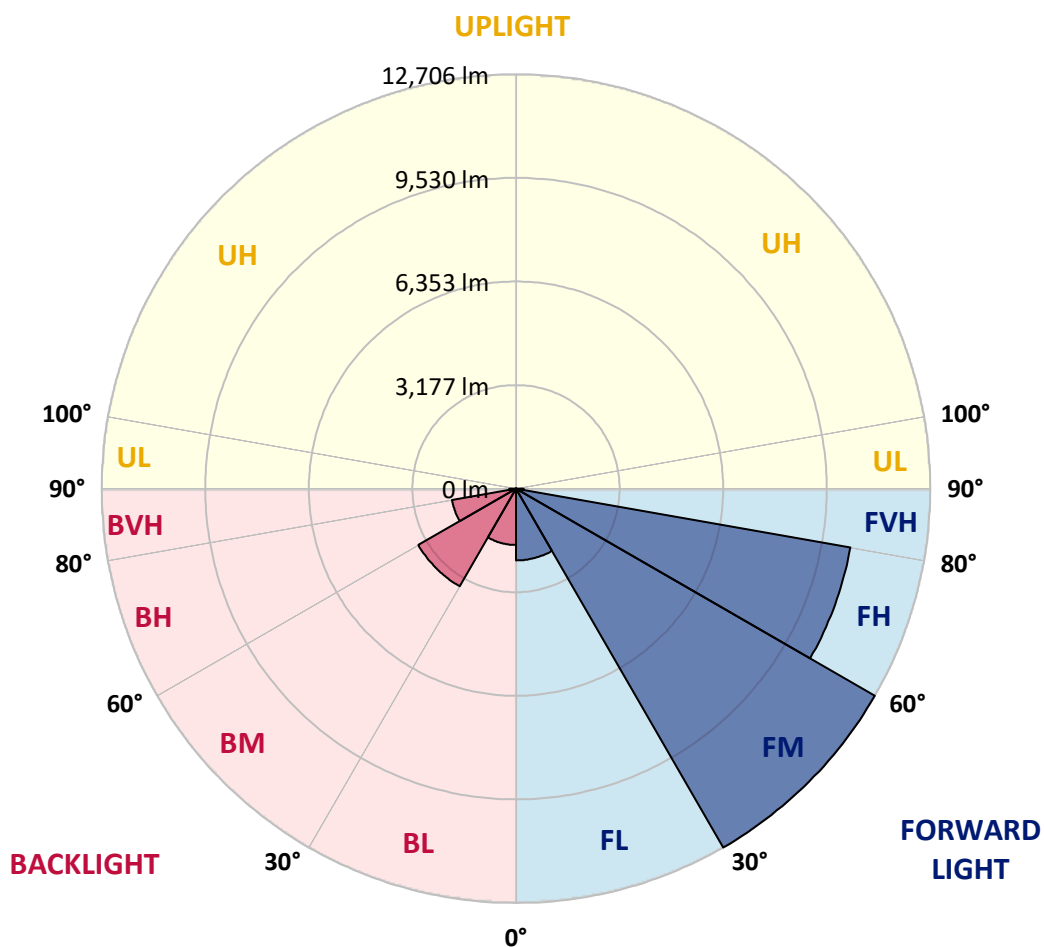
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.2	6.7			
FM (30°-60°)	12706.1	38.6			
FH (60°-80°)	10410.7	31.6			G4/12000
FVH (80°-90°)	233.2	0.7			G3/500
BL (0°-30°)	1727.9	5.2	B3/2500		
BM (30°-60°)	3455.5	10.5	B3/5000		
BH (60°-80°)	1994.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	208.9	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°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
2.5°	3850.1	3870.8	3857.0	3898.4	3932.8	3932.8	3960.4	3939.7	3967.3	4005.2
5°	3977.6	3894.9	3939.7	3960.4	3950.1	3967.3	3939.7	4008.7	3963.9	4036.2
7.5°	4008.7	4039.7	4077.6	4043.1	4074.2	4056.9	4060.4	4050.0	4025.9	4084.5
10°	4236.2	4191.3	4277.5	4225.8	4218.9	4212.0	4198.2	4146.5	4205.1	4208.6
12.5°	4498.1	4456.7	4453.3	4411.9	4467.1	4367.1	4387.8	4360.2	4370.6	4384.4
15°	4687.7	4670.5	4749.7	4701.5	4629.1	4584.3	4632.5	4556.7	4594.6	4587.7
17.5°	5063.4	5059.9	5001.3	4922.1	4880.7	4815.2	4804.9	4773.9	4801.4	4787.6
20°	5325.4	5363.3	5373.6	5280.5	5122.0	5049.6	5032.4	5008.2	5039.3	5028.9
22.5°	5725.2	5666.6	5711.4	5549.4	5490.8	5318.5	5256.4	5221.9	5370.2	5332.2
25°	5980.2	6042.3	5997.5	5942.3	5811.4	5597.7	5552.8	5628.7	5687.3	5645.9
27.5°	6555.9	6493.8	6452.5	6287.0	6200.8	5976.8	5925.1	5897.5	5911.3	5935.4
30°	6993.6	7028.1	6935.0	6817.8	6600.7	6373.2	6252.5	6228.4	6180.2	6138.8
32.5°	7617.5	7565.8	7510.6	7434.8	7248.7	6948.8	6831.6	6742.0	6597.2	6404.2
35°	7917.4	8065.6	8024.2	7820.9	7679.5	7565.8	7531.3	7393.4	7272.8	6969.5
37.5°	8417.2	8479.2	8420.6	8355.1	8289.6	8169.0	8127.6	8165.5	7927.7	7427.9
40°	8741.2	8872.1	8992.8	8810.1	8796.3	8820.4	8565.4	8520.6	8031.1	7769.2
42.5°	9402.9	9458.1	9482.2	9475.3	9554.6	9554.6	9068.6	8972.1	8624.0	8410.3
45°	10278.4	10323.3	10409.4	10471.5	10381.8	10426.7	9733.8	9695.9	9385.7	9344.4
47.5°	11036.7	11143.6	11336.6	11519.3	11636.5	11484.8	10726.5	10457.7	10378.4	10626.6
50°	11698.5	11571.0	12022.5	12208.7	12722.2	12973.9	11822.6	11715.8	11588.2	12063.9
52.5°	11764.0	11936.4	12574.0	12946.3	14004.5	14469.8	13166.9	13122.1	12967.0	13515.0
55°	12232.8	12212.1	12853.2	13659.8	14917.9	15700.3	14917.9	14890.3	14552.5	15073.0
57.5°	12153.5	12363.8	12870.5	13997.6	15741.7	17020.4	16948.1	16758.5	16286.3	16710.2
60°	11884.7	11939.8	12556.8	13987.2	16220.8	18375.0	19140.2	19178.2	18213.0	18550.8
62.5°	10361.2	10488.7	11271.1	12887.7	15879.5	19309.1	21280.7	21146.3	20374.2	19988.2
65°	8241.4	8113.8	8927.3	10674.8	13756.3	18647.3	22218.3	22718.1	21504.8	20798.2
67.5°	5053.1	5022.0	5804.5	7345.2	10292.2	15869.2	21470.3	21859.8	21191.1	20625.8
70°	2602.4	2523.1	3012.5	4098.3	6469.7	11643.4	18685.3	19067.9	19705.5	18499.1
72.5°	1213.3	1196.0	1458.0	2016.4	3295.2	6845.4	14469.8	14745.5	16089.8	15596.9
75°	713.5	723.8	872.0	1054.7	1606.2	3226.2	9602.9	10137.1	11595.1	11240.1
77.5°	534.3	534.3	620.4	734.2	937.5	1247.8	4739.4	5446.0	6779.9	6097.4
80°	392.9	399.8	475.7	551.5	651.5	644.6	1882.0	2206.0	3109.0	2657.5
82.5°	306.8	317.1	368.8	410.2	458.4	389.5	772.1	830.7	1278.8	1016.8
85°	213.7	220.6	289.5	279.2	279.2	217.2	320.6	337.8	506.7	482.6
87.5°	51.7	58.6	141.3	155.1	117.2	65.5	100.0	113.7	182.7	210.3
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°
3953.5	0°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
4022.4	2.5°	3970.7	3984.5	4043.1	4012.1	4029.3	3957.0	4015.6	3967.3	4008.7	3988.0
4053.5	5°	4081.0	4050.0	4084.5	4060.4	4060.4	4087.9	4129.3	4098.3	4160.3	4132.7
4077.6	7.5°	4125.9	4129.3	4150.0	4153.4	4136.2	4222.4	4225.8	4215.5	4274.1	4260.3
4243.0	10°	4236.2	4239.6	4277.5	4298.2	4281.0	4312.0	4277.5	4249.9	4246.5	4232.7
4374.0	12.5°	4411.9	4446.4	4439.5	4456.7	4460.2	4329.2	4249.9	4115.5	4098.3	4115.5
4567.0	15°	4573.9	4560.2	4567.0	4601.5	4456.7	4246.5	4105.2	3991.4	3998.3	4001.8
4818.7	17.5°	4767.0	4777.3	4787.6	4629.1	4363.7	4115.5	3991.4	3991.4	3957.0	3970.7
4994.5	20°	4987.6	4946.2	4856.6	4632.5	4201.7	3963.9	3925.9	3925.9	3884.6	3857.0
5184.0	22.5°	5159.9	5077.2	4942.8	4525.7	4056.9	3905.3	3812.2	3746.7	3698.4	3643.3
5394.3	25°	5270.2	5225.4	4963.4	4415.4	3950.1	3750.1	3612.3	3512.3	3450.3	3377.9
5559.7	27.5°	5439.1	5352.9	5022.0	4287.9	3832.9	3595.0	3381.3	3226.2	3109.0	3033.2
5811.4	30°	5666.6	5542.5	4980.7	4105.2	3653.6	3326.2	3074.6	2874.7	2740.2	2678.2
6049.2	32.5°	5852.7	5690.7	4946.2	3939.7	3453.7	3053.9	2719.5	2516.2	2440.4	2361.1
6449.0	35°	6207.7	5887.2	4922.1	3846.7	3274.5	2781.6	2430.0	2254.2	2157.7	2040.5
6686.8	37.5°	6480.0	6228.4	4863.5	3653.6	3043.6	2516.2	2209.4	2050.9	1906.1	1782.0
7238.3	40°	6907.4	6704.1	4866.9	3381.3	2771.3	2288.7	2037.1	1871.6	1688.9	1582.1
8055.2	42.5°	7710.6	7172.9	4887.6	3164.2	2464.5	2102.6	1882.0	1685.5	1502.8	1413.2
8985.9	45°	8696.3	7817.4	4760.1	2967.7	2150.8	1926.8	1695.8	1499.4	1382.2	1316.7
10250.9	47.5°	9830.4	8448.2	4587.7	2598.9	1888.9	1740.6	1523.5	1409.8	1323.6	1285.7
11881.2	50°	11098.8	9351.2	4539.5	2261.1	1685.5	1582.1	1440.8	1354.6	1296.0	1251.2
13718.4	52.5°	12732.6	10402.5	4443.0	1913.0	1509.7	1454.6	1409.8	1351.2	1299.5	1261.5
15431.5	55°	14294.0	11567.6	4339.6	1626.9	1385.6	1392.5	1416.6	1364.9	1320.1	1261.5
17351.3	57.5°	16051.9	12756.7	3957.0	1416.6	1292.6	1361.5	1409.8	1351.2	1306.3	1261.5
19316.0	60°	17137.6	13425.4	3209.0	1234.0	1209.8	1302.9	1368.4	1306.3	1258.1	1275.3
20219.1	62.5°	17578.8	13073.8	2419.7	1120.2	1151.2	1223.6	1302.9	1278.8	1244.3	1309.8
20208.8	65°	16827.4	12263.8	1730.3	1023.7	1072.0	1144.3	1244.3	1271.9	1282.2	1409.8
18561.2	67.5°	14973.0	10678.3	1271.9	944.4	989.2	1096.1	1285.7	1330.5	1323.6	1482.1
15576.2	70°	11981.2	8351.7	992.7	878.9	958.2	1134.0	1344.3	1344.3	1296.0	1482.1
11881.2	72.5°	8717.0	5887.2	854.8	803.1	878.9	1040.9	1337.4	1333.9	1271.9	1354.6
7565.8	75°	5277.1	3426.1	754.9	727.3	754.9	892.7	1278.8	1258.1	1171.9	1165.0
3639.9	77.5°	2629.9	1723.4	617.0	644.6	658.3	748.0	1123.7	1154.7	1037.5	1009.9
1437.3	80°	1109.9	751.4	513.6	554.9	554.9	630.8	934.1	954.8	861.7	810.0
568.7	82.5°	506.7	430.9	437.7	482.6	451.5	489.4	741.1	765.2	699.7	613.5
241.3	85°	213.7	244.7	334.3	379.2	334.3	317.1	510.1	537.7	455.0	379.2
103.4	87.5°	96.5	134.4	210.3	275.7	168.9	148.2	272.3	282.6	227.5	168.9
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>
3953.5
3950.1
4094.8
4239.6
4232.7
4122.4
4050.0
3974.2
3815.6
3612.3
3391.7
3067.7
2712.7
2357.6
2030.2
1785.5
1592.4
1420.1
1330.5
1278.8
1258.1
1258.1
1258.1
1258.1
1261.5
1292.6
1409.8
1492.5
1451.1
1306.3
1151.2
992.7
792.8
599.7
382.6
158.6
0.0

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