

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: P477510

Luminaire Tested: **IFLD-S-SA6C-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

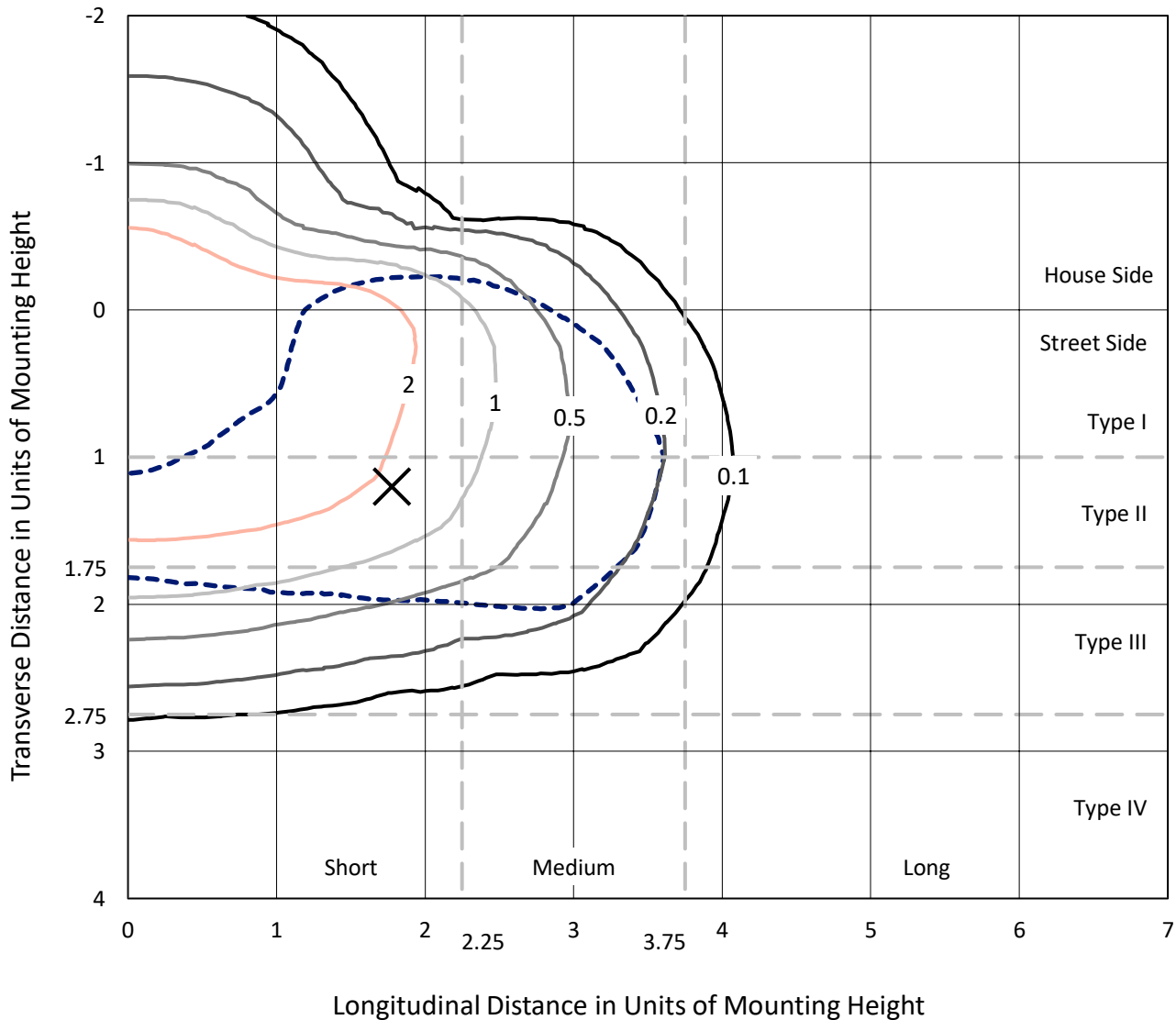
Lumens per Lamp: N/A
Luminaire Lumens: 31110.4 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

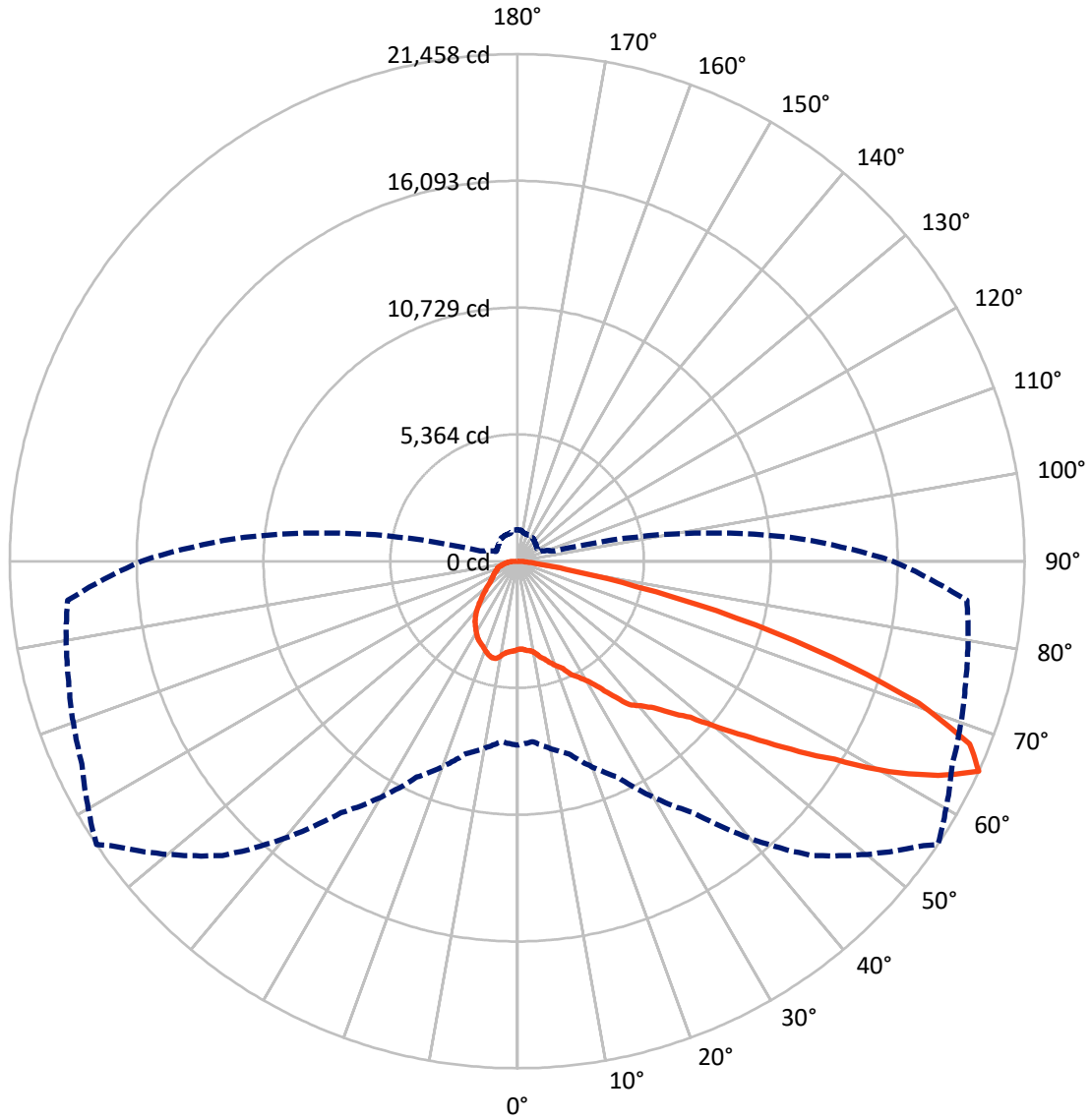
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	6977.1	0.0	6977.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	24133.4	0.0	24133.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	31110.4	0.0	31110.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.0	1.2
10°-20°	1201.6	3.9
20°-30°	2139.5	6.9
30°-40°	3203.8	10.3
40°-50°	4746.8	15.3
50°-60°	7314.2	23.5
60°-70°	8280.6	26.6
70°-80°	3436.5	11.0
80°-90°	417.5	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°	31110.4	100.0
0°-180°	31110.4	100.0

Coefficient of Utilization

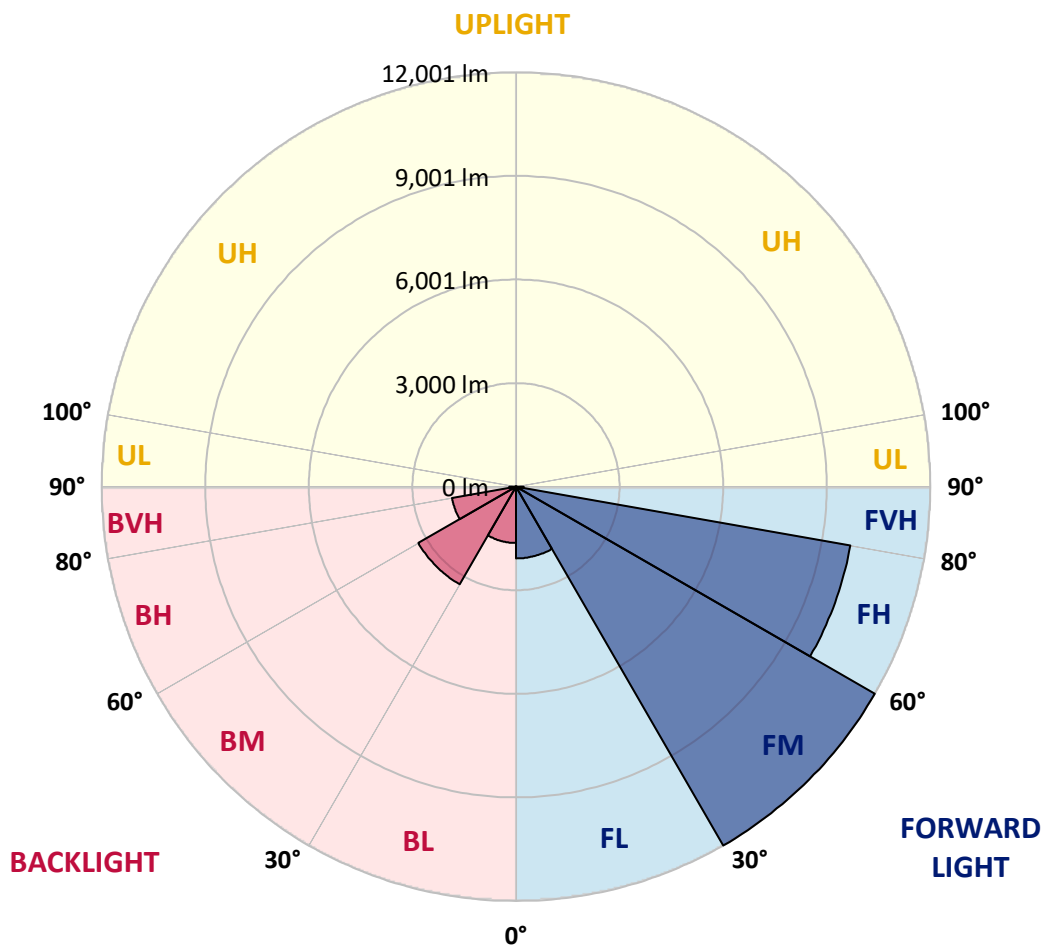


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2079.1	6.7			
FM (30°-60°)	12001.0	38.6			
FH (60°-80°)	9833.0	31.6			G4/12000
FVH (80°-90°)	220.2	0.7			G2/225
BL (0°-30°)	1632.0	5.2	B3/2500		
BM (30°-60°)	3263.7	10.5	B3/5000		
BH (60°-80°)	1884.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	197.3	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°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
2.5°	3636.5	3656.0	3643.0	3682.1	3714.6	3714.6	3740.7	3721.1	3747.2	3783.0
5°	3756.9	3678.8	3721.1	3740.7	3730.9	3747.2	3721.1	3786.2	3743.9	3812.3
7.5°	3786.2	3815.5	3851.3	3818.8	3848.1	3831.8	3835.1	3825.3	3802.5	3857.9
10°	4001.1	3958.8	4040.2	3991.3	3984.8	3978.3	3965.3	3916.5	3971.8	3975.1
12.5°	4248.5	4209.5	4206.2	4167.1	4219.2	4124.8	4144.3	4118.3	4128.1	4141.1
15°	4427.6	4411.3	4486.2	4440.6	4372.2	4329.9	4375.5	4303.9	4339.7	4333.2
17.5°	4782.4	4779.2	4723.8	4649.0	4609.9	4548.0	4538.3	4509.0	4535.0	4522.0
20°	5029.9	5065.7	5075.4	4987.5	4837.8	4769.4	4753.1	4730.3	4759.6	4749.9
22.5°	5407.5	5352.2	5394.5	5241.5	5186.1	5023.3	4964.7	4932.2	5072.2	5036.4
25°	5648.4	5707.0	5664.7	5612.6	5488.9	5287.0	5244.7	5316.3	5371.7	5332.6
27.5°	6192.1	6133.5	6094.4	5938.2	5856.8	5645.2	5596.3	5570.3	5583.3	5606.1
30°	6605.6	6638.1	6550.2	6439.5	6234.4	6019.6	5905.6	5882.8	5837.2	5798.2
32.5°	7194.8	7146.0	7093.9	7022.3	6846.5	6563.2	6452.5	6367.9	6231.2	6048.9
35°	7478.0	7618.0	7579.0	7386.9	7253.4	7146.0	7113.4	6983.2	6869.3	6582.8
37.5°	7950.1	8008.7	7953.4	7891.5	7829.7	7715.7	7676.6	7712.4	7487.8	7015.8
40°	8256.1	8379.8	8493.8	8321.2	8308.2	8331.0	8090.1	8047.8	7585.5	7338.1
42.5°	8881.2	8933.3	8956.1	8949.6	9024.4	9024.4	8565.4	8474.3	8145.4	7943.6
45°	9708.1	9750.4	9831.8	9890.4	9805.8	9848.1	9193.7	9157.9	8864.9	8825.9
47.5°	10424.3	10525.3	10707.6	10880.1	10990.8	10847.6	10131.3	9877.4	9802.5	10036.9
50°	11049.4	10929.0	11355.4	11531.2	12016.3	12254.0	11166.6	11065.7	10945.2	11394.5
52.5°	11111.3	11274.0	11876.3	12227.9	13227.4	13666.9	12436.3	12394.0	12247.5	12765.1
55°	11554.0	11534.5	12140.0	12901.8	14090.1	14829.1	14090.1	14064.1	13745.0	14236.6
57.5°	11479.1	11677.7	12156.3	13220.9	14868.2	16076.0	16007.6	15828.6	15382.6	15783.0
60°	11225.2	11277.3	11860.0	13211.1	15320.7	17355.5	18078.2	18114.0	17202.4	17521.5
62.5°	9786.2	9906.7	10645.7	12172.6	14998.4	18237.7	20099.9	19972.9	19243.7	18879.1
65°	7784.1	7663.6	8431.9	10082.5	12993.0	17612.6	20985.4	21457.5	20311.5	19644.1
67.5°	4772.7	4743.4	5482.4	6937.6	9721.1	14988.7	20279.0	20646.8	20015.3	19481.3
70°	2458.0	2383.1	2845.4	3870.9	6110.7	10997.3	17648.5	18009.8	18612.1	17472.7
72.5°	1146.0	1129.7	1377.1	1904.5	3112.3	6465.6	13666.9	13927.3	15197.0	14731.5
75°	673.9	683.7	823.7	996.2	1517.1	3047.2	9070.0	9574.6	10951.7	10616.4
77.5°	504.6	504.6	586.0	693.4	885.5	1178.5	4476.4	5143.8	6403.7	5759.1
80°	371.1	377.6	449.3	520.9	615.3	608.8	1777.5	2083.6	2936.5	2510.0
82.5°	289.7	299.5	348.3	387.4	433.0	367.9	729.2	784.6	1207.8	960.4
85°	201.8	208.4	273.5	263.7	263.7	205.1	302.8	319.0	478.6	455.8
87.5°	48.8	55.3	133.5	146.5	110.7	61.9	94.4	107.4	172.5	198.6
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°
3734.1	0°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
3799.3	2.5°	3750.4	3763.4	3818.8	3789.5	3805.8	3737.4	3792.7	3747.2	3786.2	3766.7
3828.6	5°	3854.6	3825.3	3857.9	3835.1	3835.1	3861.1	3900.2	3870.9	3929.5	3903.4
3851.3	7.5°	3896.9	3900.2	3919.7	3923.0	3906.7	3988.1	3991.3	3981.6	4036.9	4023.9
4007.6	10°	4001.1	4004.4	4040.2	4059.7	4043.4	4072.7	4040.2	4014.1	4010.9	3997.8
4131.3	12.5°	4167.1	4199.7	4193.2	4209.5	4212.7	4089.0	4014.1	3887.2	3870.9	3887.2
4313.6	15°	4320.1	4307.1	4313.6	4346.2	4209.5	4010.9	3877.4	3770.0	3776.5	3779.7
4551.3	17.5°	4502.5	4512.2	4522.0	4372.2	4121.6	3887.2	3770.0	3770.0	3737.4	3750.4
4717.3	20°	4710.8	4671.7	4587.1	4375.5	3968.5	3743.9	3708.1	3708.1	3669.0	3643.0
4896.4	22.5°	4873.6	4795.5	4668.5	4274.6	3831.8	3688.6	3600.7	3538.8	3493.2	3441.1
5095.0	25°	4977.8	4935.4	4688.0	4170.4	3730.9	3542.1	3411.8	3317.4	3258.8	3190.5
5251.2	27.5°	5137.3	5055.9	4743.4	4049.9	3620.2	3395.6	3193.7	3047.2	2936.5	2864.9
5488.9	30°	5352.2	5235.0	4704.3	3877.4	3450.9	3141.6	2904.0	2715.1	2588.2	2529.6
5713.5	32.5°	5528.0	5374.9	4671.7	3721.1	3262.1	2884.4	2568.6	2376.6	2304.9	2230.1
6091.2	35°	5863.3	5560.5	4649.0	3633.2	3092.8	2627.2	2295.2	2129.1	2038.0	1927.3
6315.8	37.5°	6120.5	5882.8	4593.6	3450.9	2874.7	2376.6	2086.8	1937.1	1800.3	1683.1
6836.7	40°	6524.2	6332.1	4596.9	3193.7	2617.5	2161.7	1924.0	1767.8	1595.2	1494.3
7608.3	42.5°	7282.7	6774.8	4616.4	2988.6	2327.7	1985.9	1777.5	1592.0	1419.4	1334.8
8487.3	45°	8213.8	7383.6	4495.9	2803.0	2031.5	1819.9	1601.7	1416.2	1305.5	1243.6
9682.1	47.5°	9284.9	7979.4	4333.2	2454.7	1784.1	1644.1	1439.0	1331.5	1250.1	1214.3
11222.0	50°	10482.9	8832.4	4287.6	2135.7	1592.0	1494.3	1360.8	1279.4	1224.1	1181.8
12957.2	52.5°	12026.1	9825.3	4196.4	1806.8	1425.9	1373.9	1331.5	1276.2	1227.4	1191.5
14575.2	55°	13500.9	10925.7	4098.8	1536.6	1308.7	1315.3	1338.0	1289.2	1246.9	1191.5
16388.5	57.5°	15161.2	12048.9	3737.4	1338.0	1220.8	1286.0	1331.5	1276.2	1233.9	1191.5
18244.2	60°	16186.7	12680.5	3030.9	1165.5	1142.7	1230.6	1292.5	1233.9	1188.3	1204.6
19097.2	62.5°	16603.4	12348.4	2285.4	1058.1	1087.4	1155.7	1230.6	1207.8	1175.3	1237.1
19087.4	65°	15893.7	11583.3	1634.3	966.9	1012.5	1080.8	1175.3	1201.3	1211.1	1331.5
17531.3	67.5°	14142.2	10085.8	1201.3	892.0	934.3	1035.3	1214.3	1256.7	1250.1	1399.9
14711.9	70°	11316.4	7888.3	937.6	830.2	905.0	1071.1	1269.7	1269.7	1224.1	1399.9
11222.0	72.5°	8233.3	5560.5	807.4	758.5	830.2	983.2	1263.2	1259.9	1201.3	1279.4
7146.0	75°	4984.3	3236.0	713.0	686.9	713.0	843.2	1207.8	1188.3	1106.9	1100.4
3437.9	77.5°	2484.0	1627.8	582.7	608.8	621.8	706.5	1061.3	1090.6	979.9	953.9
1357.6	80°	1048.3	709.7	485.1	524.1	524.1	595.8	882.3	901.8	813.9	765.1
537.2	82.5°	478.6	406.9	413.5	455.8	426.5	462.3	699.9	722.7	660.9	579.5
227.9	85°	201.8	231.1	315.8	358.1	315.8	299.5	481.8	507.9	429.7	358.1
97.7	87.5°	91.2	127.0	198.6	260.4	159.5	140.0	257.2	267.0	214.9	159.5
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>
3734.1
3730.9
3867.6
4004.4
3997.8
3893.7
3825.3
3753.7
3603.9
3411.8
3203.5
2897.5
2562.1
2226.8
1917.5
1686.4
1504.1
1341.3
1256.7
1207.8
1188.3
1188.3
1188.3
1188.3
1191.5
1220.8
1331.5
1409.7
1370.6
1233.9
1087.4
937.6
748.8
566.5
361.4
149.8
0.0

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