

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: P477781

Luminaire Tested: **IFLD-S-SA6A-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

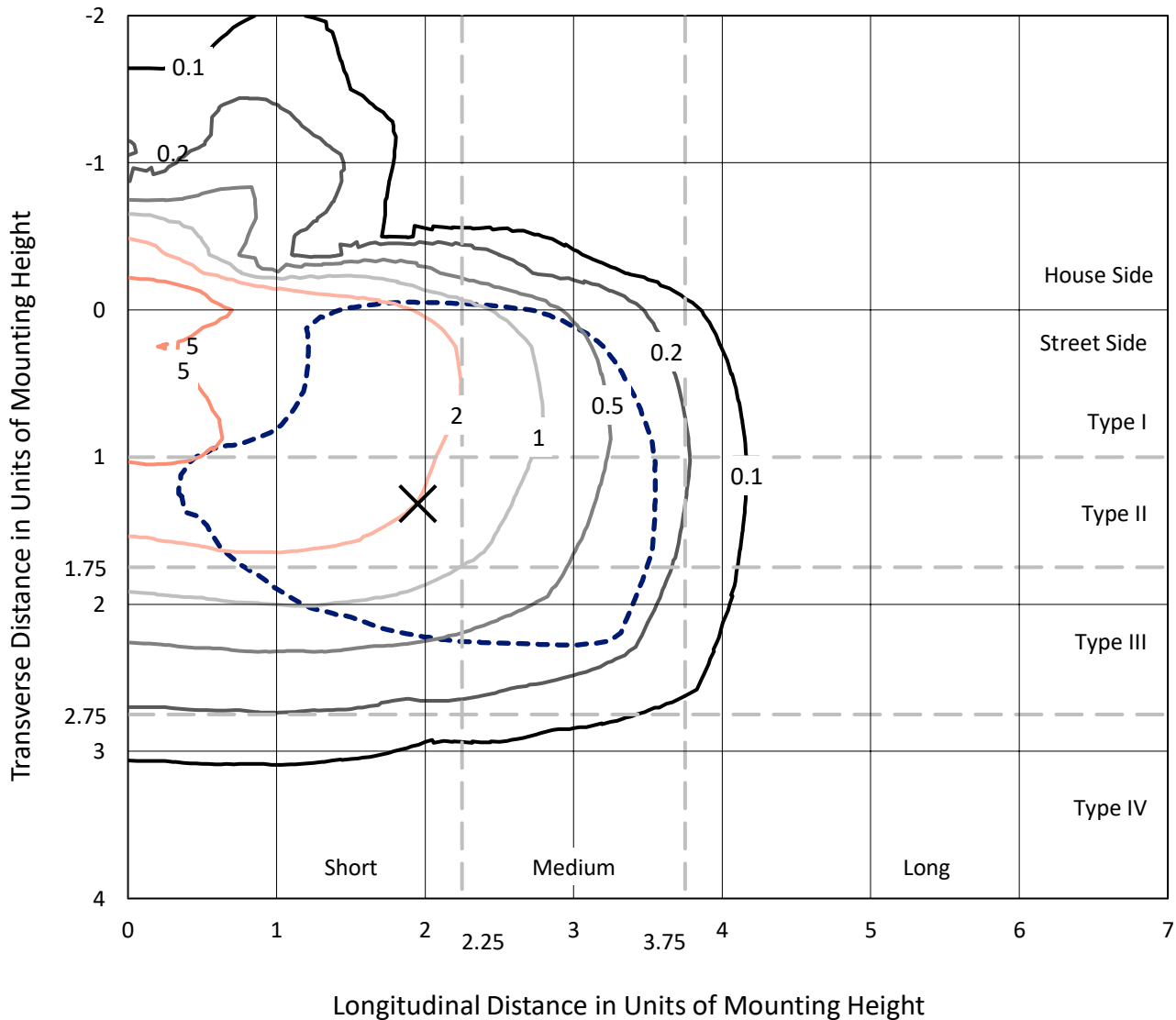
Lumens per Lamp: N/A
Luminaire Lumens: 26512.1 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

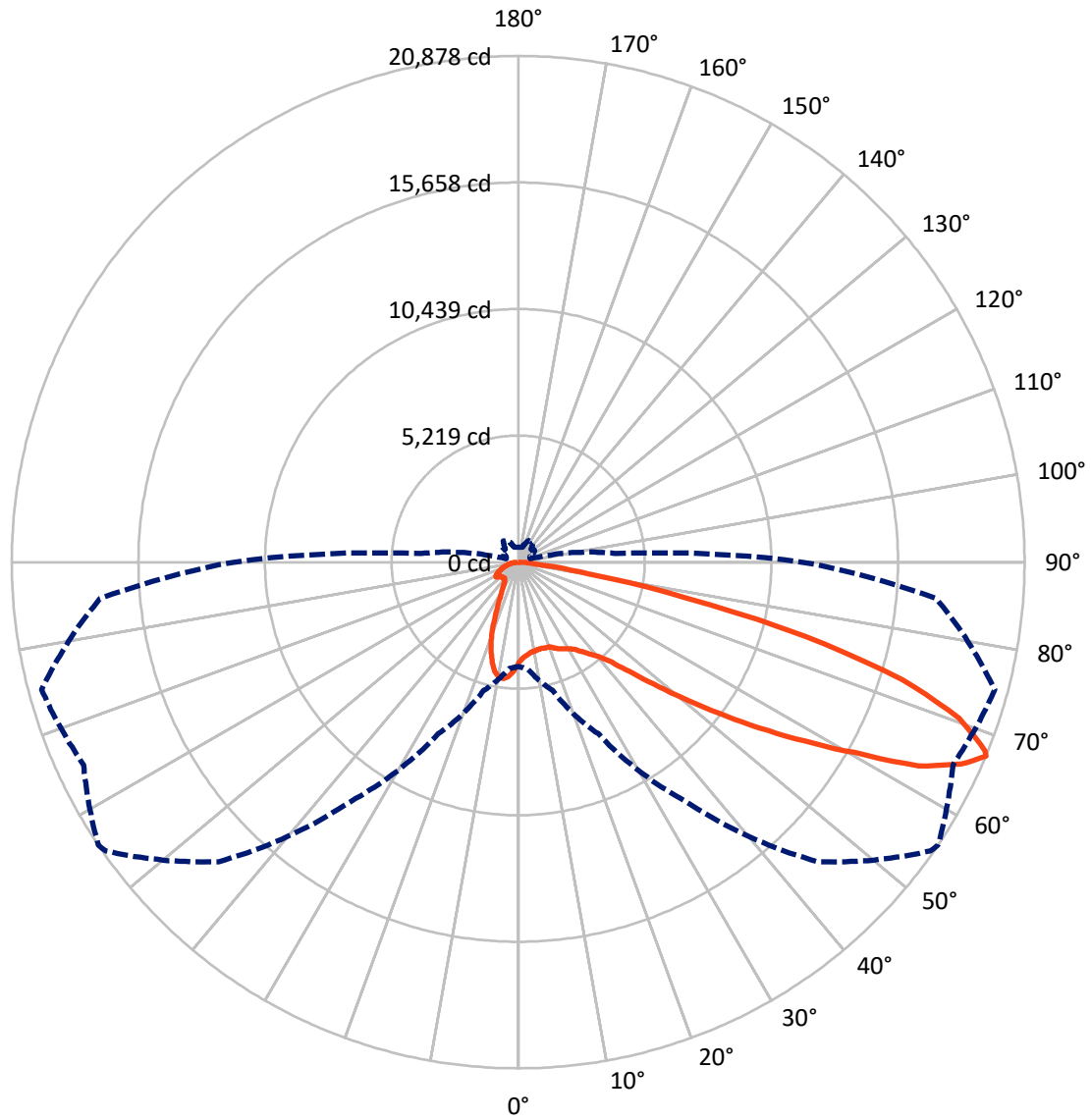
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	4197.1	0.0	4197.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22315.0	0.0	22315.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	26512.1	0.0	26512.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.4	1.5
10°-20°	1084.2	4.1
20°-30°	1700.3	6.4
30°-40°	2427.2	9.2
40°-50°	3663.4	13.8
50°-60°	5831.5	22.0
60°-70°	7455.1	28.1
70°-80°	3634.9	13.7
80°-90°	318.0	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°	26512.1	100.0
0°-180°	26512.1	100.0

Coefficient of Utilization

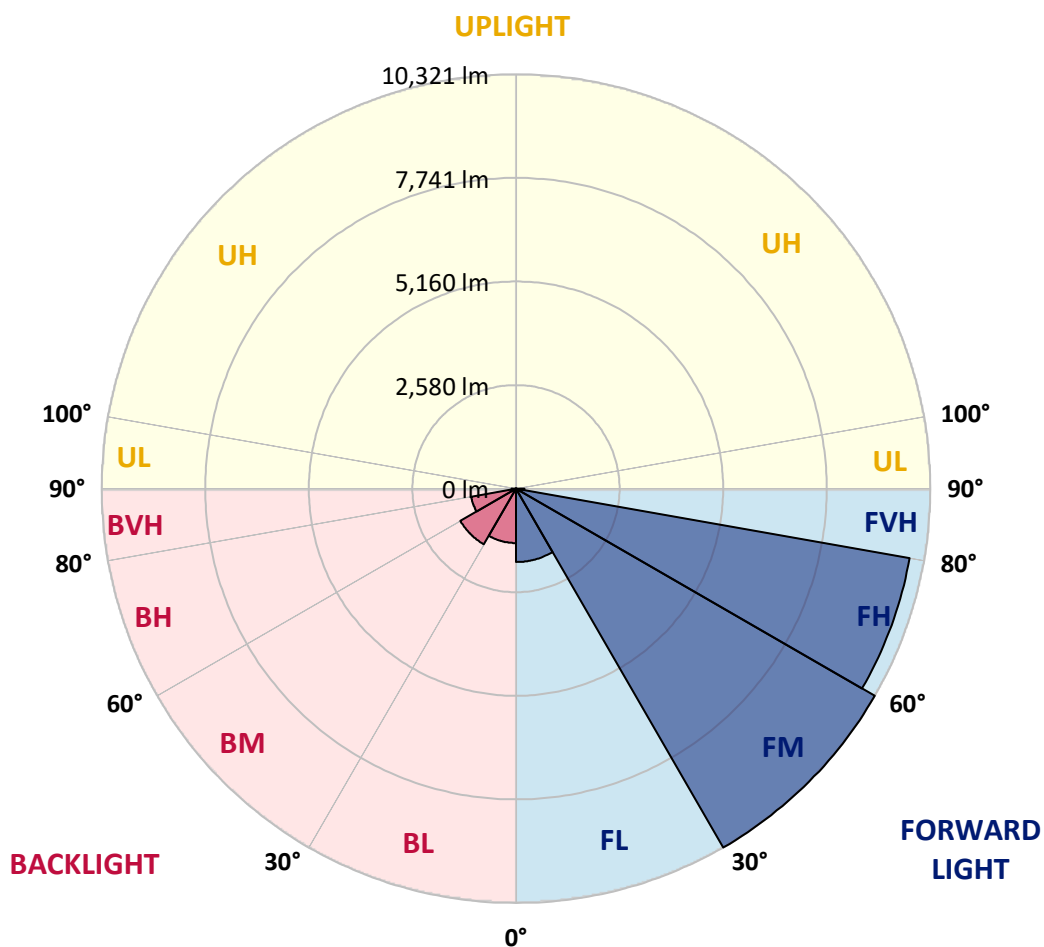


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.0	6.9			
FM (30°-60°)	10320.9	38.9			
FH (60°-80°)	9955.9	37.6			G4/12000
FVH (80°-90°)	211.2	0.8			G2/225
BL (0°-30°)	1355.0	5.1	B3/2500		
BM (30°-60°)	1601.3	6.0	B2/2500		
BH (60°-80°)	1134.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	106.8	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2
2.5°	3789.5	3773.9	3792.6	3773.9	3857.9	3907.6	3923.2	3944.9	4022.6	4097.2
5°	3630.9	3562.5	3637.2	3662.0	3668.2	3752.2	3839.2	3854.8	3895.2	4016.4
7.5°	3366.7	3444.4	3416.4	3491.0	3568.8	3652.7	3795.7	3755.3	3904.5	4019.5
10°	3310.7	3317.0	3348.0	3376.0	3444.4	3553.2	3752.2	3727.3	3879.6	4125.2
12.5°	3366.7	3366.7	3357.4	3335.6	3413.3	3519.0	3677.6	3690.0	3929.4	4156.3
15°	3562.5	3599.9	3500.4	3515.9	3484.8	3519.0	3658.9	3686.9	3948.0	4181.2
17.5°	4041.3	4028.8	3910.7	3746.0	3609.2	3587.4	3683.8	3714.9	3929.4	4252.7
20°	4507.6	4482.7	4277.5	4106.6	3836.1	3708.7	3724.2	3727.3	3960.5	4299.3
22.5°	5026.7	5092.0	4868.2	4520.0	4184.3	3867.2	3805.0	3854.8	4032.0	4324.2
25°	5841.2	5701.3	5508.6	5051.6	4510.7	4112.8	3938.7	3963.6	4100.3	4386.3
27.5°	6428.7	6372.8	6071.3	5701.3	4967.7	4305.5	4010.2	4056.8	4224.7	4383.2
30°	6994.5	6994.5	6811.1	6257.8	5449.5	4628.8	4162.5	4140.8	4165.6	4377.0
32.5°	7656.7	7566.5	7302.3	6935.5	6055.7	4924.1	4283.8	4290.0	4290.0	4492.0
35°	8004.9	8151.0	7973.8	7376.9	6518.9	5415.3	4576.0	4529.3	4495.2	4619.5
37.5°	8514.7	8601.7	8415.2	8063.9	7094.0	5813.2	4834.0	4796.7	4597.7	4719.0
40°	8822.4	8806.9	8800.7	8639.0	7855.6	6282.6	5213.3	5116.9	4849.5	5070.3
42.5°	8996.5	8965.4	9347.8	9248.3	8573.7	6972.8	5688.9	5636.0	5340.7	5695.1
45°	9192.4	9422.4	9736.4	10016.2	9410.0	7942.7	6494.0	6419.4	6155.2	6605.9
47.5°	9363.3	9646.2	10047.3	10345.7	10165.4	8996.5	7488.8	7507.5	7333.4	7796.6
50°	9649.3	9677.3	10221.3	10824.4	10964.3	9969.5	8825.5	8794.5	8716.7	9366.5
52.5°	9562.3	9646.2	10333.3	11104.2	11334.2	10998.5	10261.8	10355.0	10252.4	11070.0
55°	8144.7	8396.5	10264.9	11399.5	12210.9	12161.2	12108.3	12046.1	12039.9	12985.0
57.5°	7501.2	7706.4	9043.1	11725.9	13149.7	13516.5	13858.5	13926.9	13923.8	15064.7
60°	7078.5	7289.9	8548.9	11548.7	13948.6	15291.6	15947.5	15956.9	15938.2	17287.4
62.5°	6251.6	6456.7	7694.0	10578.8	14169.4	16929.9	18390.9	18512.2	17657.3	19202.3
65°	5256.8	5424.6	6515.8	9096.0	13581.8	17971.3	20228.2	20085.2	19105.9	20296.6
67°	4299.3	4411.2	5474.4	7809.0	12046.1	17470.8	20759.8	20877.9	19774.3	20343.2
67.5°	4025.7	4128.3	5132.4	7370.7	11461.7	17091.5	20778.4	20759.8	19786.7	20352.5
70°	2794.7	2838.2	3497.3	5070.3	8443.2	14439.8	19261.4	19304.9	18956.7	19248.9
72.5°	1852.8	1918.1	2337.7	3195.7	4977.0	10507.3	16099.9	16566.2	16345.4	15782.8
75°	1193.7	1231.0	1529.5	1902.5	2449.6	5984.2	11893.8	12204.7	11698.0	9761.3
77.5°	668.4	708.8	923.3	1156.4	1193.7	2490.1	6680.6	7066.0	5987.3	4147.0
80°	416.6	469.4	696.3	687.0	568.9	914.0	2754.3	2950.1	2393.7	1426.9
82.5°	314.0	354.4	537.8	481.8	320.2	407.2	1032.1	1106.7	876.6	550.2
85°	214.5	270.5	388.6	298.4	167.9	195.8	410.3	441.4	401.0	267.3
87.5°	77.7	115.0	202.1	149.2	74.6	59.1	133.7	149.2	143.0	121.2
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°
4125.2	0°	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2	4125.2
4162.5	2.5°	4221.6	4265.1	4286.9	4414.3	4467.2	4457.8	4470.3	4488.9	4507.6	4532.5
4215.4	5°	4255.8	4389.5	4461.0	4610.2	4709.6	4666.1	4722.1	4706.5	4684.8	4681.7
4311.7	7.5°	4367.7	4538.7	4753.2	4793.6	4837.1	4728.3	4635.0	4507.6	4476.5	4367.7
4392.6	10°	4566.7	4706.5	4967.7	4983.2	4790.5	4510.7	4302.4	4038.2	4035.1	3876.5
4516.9	12.5°	4756.3	4914.8	5126.2	5036.1	4576.0	4193.6	3854.8	3565.7	3444.4	3363.6
4591.5	15°	4874.4	5135.5	5247.5	4858.9	4199.8	3683.8	3245.5	2934.6	2810.2	2751.2
4684.8	17.5°	4983.2	5346.9	5297.2	4548.0	3736.6	3158.4	2636.2	2365.7	2331.5	2288.0
4834.0	20°	5132.4	5424.6	5120.0	4143.9	3211.3	2480.7	2148.1	2017.5	2048.6	2067.3
4849.5	22.5°	5272.3	5465.1	4896.2	3702.4	2536.7	1964.7	1799.9	1827.9	1874.5	1936.7
4886.8	25°	5334.5	5530.3	4594.6	3093.1	1930.5	1653.8	1616.5	1663.1	1740.9	1744.0
4939.7	27.5°	5374.9	5483.7	4230.9	2499.4	1526.4	1445.5	1501.5	1535.7	1545.0	1582.3
5051.6	30°	5446.4	5387.3	3770.8	1787.5	1280.8	1283.9	1355.4	1355.4	1355.4	1383.4
5163.5	32.5°	5570.8	5322.1	3233.0	1305.6	1103.6	1203.1	1184.4	1178.2	1165.8	1131.6
5306.5	35°	5648.5	5144.9	2552.2	966.8	991.7	1103.6	1097.4	1001.0	839.3	758.5
5670.2	37.5°	5810.1	5054.7	1877.6	746.1	926.4	1053.8	1019.6	786.5	609.3	531.6
6121.0	40°	6158.3	4995.6	1299.4	652.8	882.9	1029.0	910.8	671.5	466.3	329.5
6817.3	42.5°	6584.2	4998.8	882.9	615.5	886.0	1081.8	876.6	575.1	329.5	264.2
7746.8	45°	7156.2	4952.1	606.2	615.5	941.9	1168.9	898.4	522.3	320.2	335.7
8912.6	47.5°	7771.7	4992.5	450.8	559.6	951.3	1172.0	820.7	512.9	307.8	388.6
10180.9	50°	8489.8	5033.0	373.0	516.0	954.4	1134.7	755.4	500.5	320.2	410.3
11635.8	52.5°	9229.7	5160.4	317.1	488.1	991.7	1119.1	755.4	519.1	320.2	357.5
13488.6	55°	10333.3	5486.8	457.0	609.3	1128.5	1221.7	929.5	727.4	447.6	460.1
15263.6	57.5°	11551.9	5822.6	509.8	640.4	1159.5	1100.5	1001.0	802.0	472.5	475.6
16643.9	60°	12353.9	5835.0	506.7	624.8	1084.9	951.3	979.2	845.6	481.8	407.2
17498.8	62.5°	12674.1	5455.7	528.5	624.8	1010.3	889.1	1004.1	910.8	497.4	509.8
17741.2	65°	12310.4	4672.3	509.8	559.6	889.1	795.8	1010.3	923.3	544.0	512.9
17306.0	67°	11741.5	4025.7	519.1	531.6	826.9	755.4	1063.2	969.9	631.1	615.5
17079.1	67.5°	11579.8	3854.8	516.0	516.0	805.1	743.0	1075.6	969.9	643.5	637.3
15074.0	70°	10205.8	3124.2	528.5	509.8	711.9	705.7	1144.0	1022.8	739.9	746.1
11073.1	72.5°	7768.6	2368.8	525.4	509.8	618.6	674.6	1153.3	1057.0	805.1	746.1
6201.8	75°	4414.3	1417.6	463.2	444.5	488.1	587.5	1078.7	1007.2	783.4	668.4
2477.6	77.5°	1824.8	730.5	425.9	401.0	404.1	478.7	898.4	938.8	746.1	568.9
826.9	80°	680.8	438.3	342.0	320.2	310.9	351.3	640.4	749.2	637.3	466.3
363.7	82.5°	354.4	273.6	233.2	233.2	211.4	223.8	345.1	497.4	481.8	320.2
146.1	85°	180.3	155.4	133.7	130.6	118.1	105.7	174.1	295.3	276.7	177.2
65.3	87.5°	96.4	87.0	56.0	52.8	43.5	28.0	31.1	59.1	96.4	77.7
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>
4125.2
4557.3
4709.6
4405.0
3870.3
3344.9
2738.7
2309.7
2045.5
1902.5
1775.1
1616.5
1414.4
1112.9
795.8
528.5
320.2
258.0
342.0
432.1
475.6
366.8
485.0
460.1
419.7
516.0
503.6
606.2
624.8
690.1
662.1
596.9
537.8
425.9
251.8
146.1
56.0
0.0

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