

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: P477275

Luminaire Tested: **IFLD-S-SA6B-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477275
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

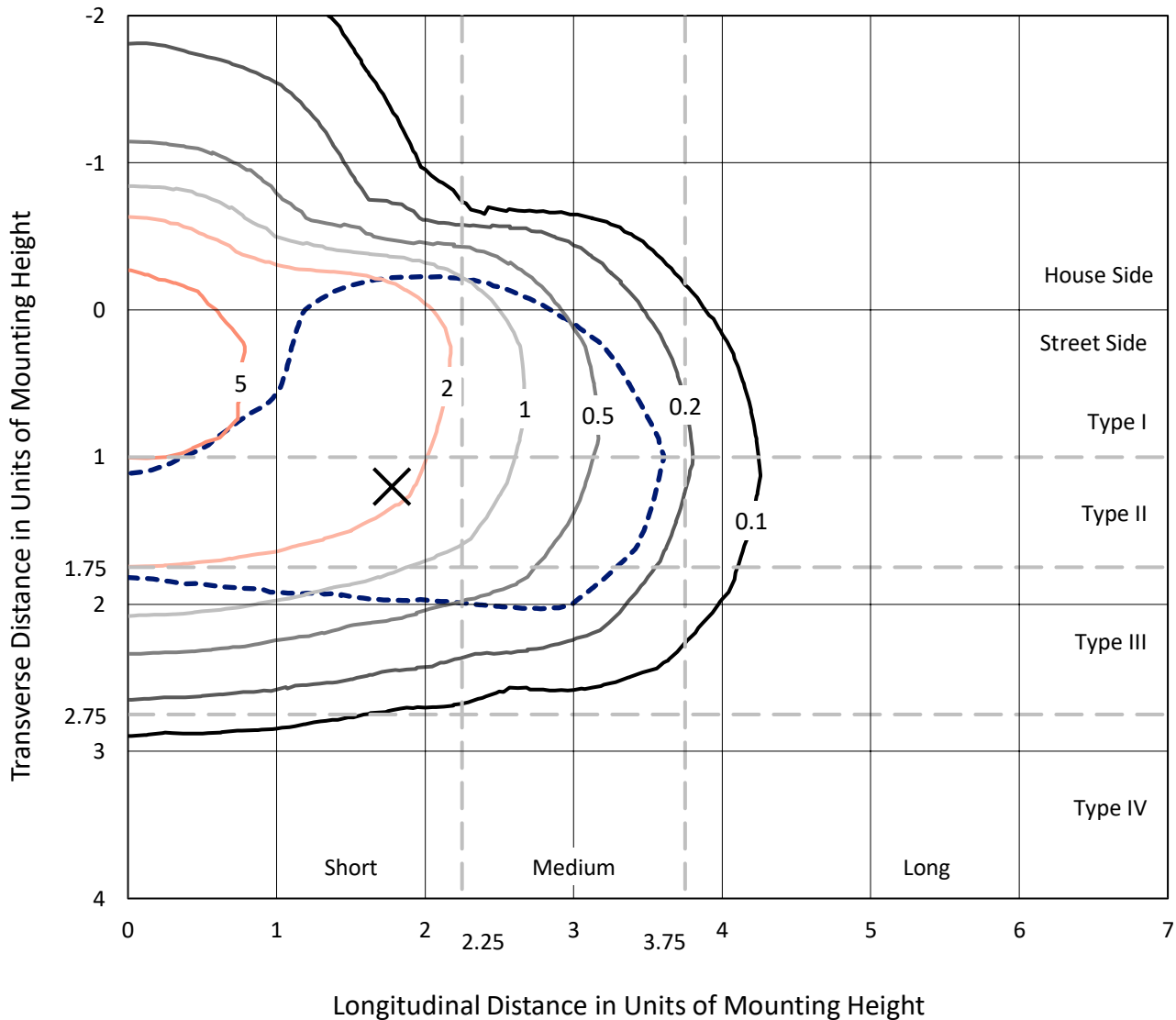
Lumens per Lamp: N/A
Luminaire Lumens: 28432.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

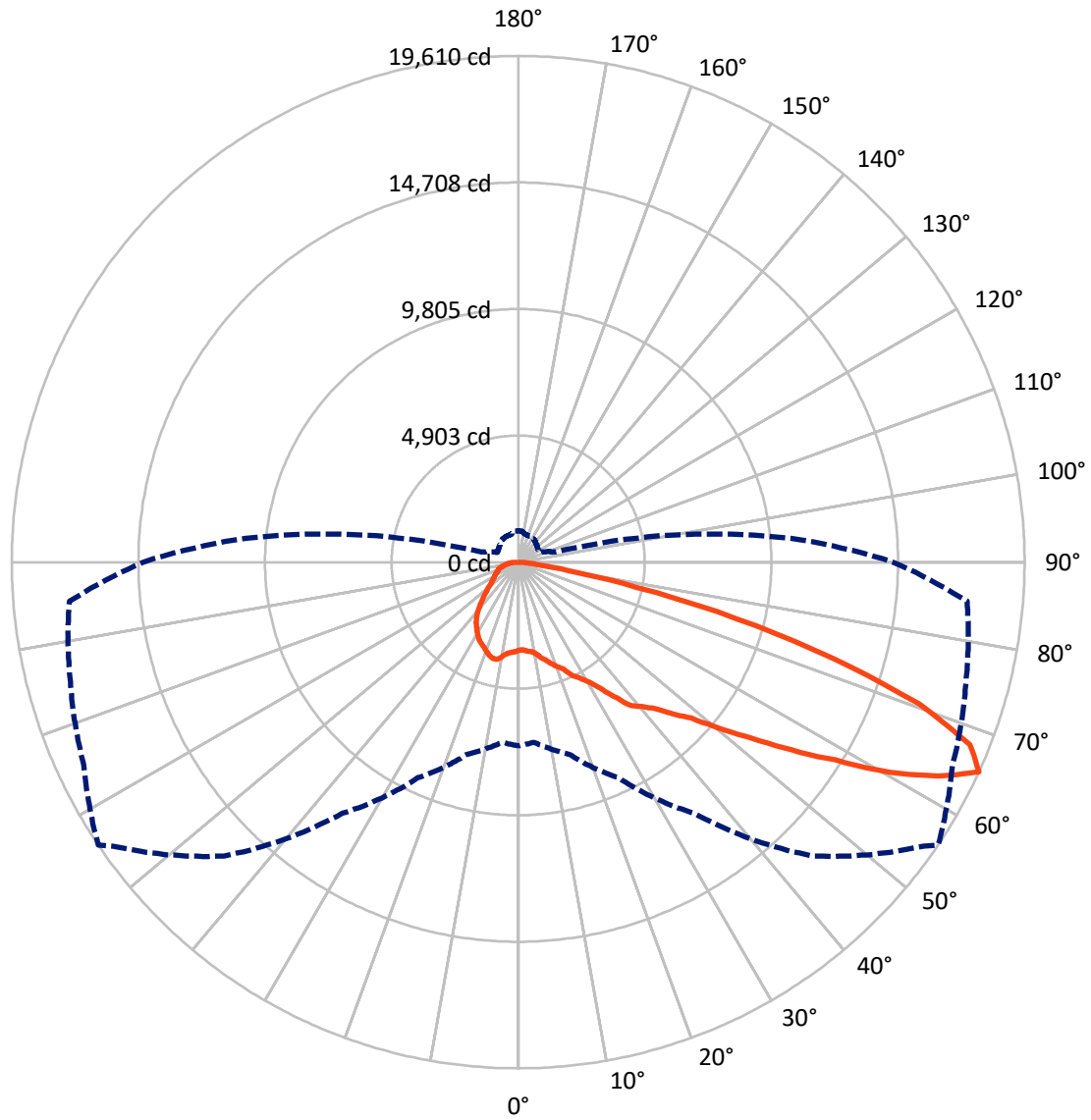
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6376.5	0.0	6376.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22055.9	0.0	22055.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	28432.4	0.0	28432.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.2
10°-20°	1098.1	3.9
20°-30°	1955.3	6.9
30°-40°	2928.0	10.3
40°-50°	4338.2	15.3
50°-60°	6684.6	23.5
60°-70°	7567.8	26.6
70°-80°	3140.7	11.0
80°-90°	381.6	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°	28432.4	100.0
0°-180°	28432.4	100.0

Coefficient of Utilization

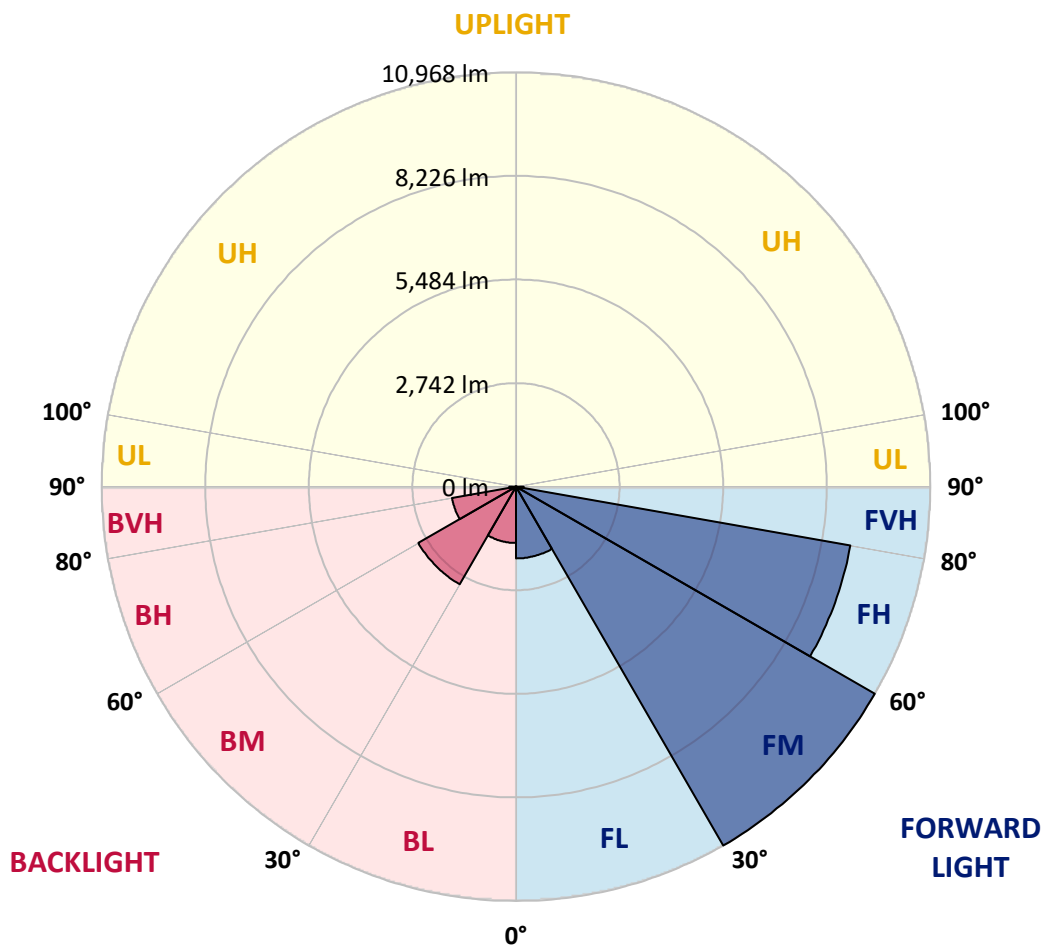


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.1	6.7			
FM (30°-60°)	10968.0	38.6			
FH (60°-80°)	8986.6	31.6			G4/12000
FVH (80°-90°)	201.3	0.7			G2/225
BL (0°-30°)	1491.5	5.2	B3/2500		
BM (30°-60°)	2982.8	10.5	B3/5000		
BH (60°-80°)	1721.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	180.3	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°	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7
2.5°	3323.4	3341.3	3329.4	3365.1	3394.9	3394.9	3418.7	3400.8	3424.6	3457.3
5°	3433.5	3362.1	3400.8	3418.7	3409.7	3424.6	3400.8	3460.3	3421.6	3484.1
7.5°	3460.3	3487.1	3519.8	3490.1	3516.8	3502.0	3504.9	3496.0	3475.2	3525.8
10°	3656.7	3618.0	3692.4	3647.8	3641.8	3635.9	3624.0	3579.3	3629.9	3632.9
12.5°	3882.8	3847.1	3844.1	3808.4	3856.0	3769.7	3787.6	3763.8	3772.7	3784.6
15°	4046.4	4031.6	4100.0	4058.3	3995.9	3957.2	3998.8	3933.4	3966.1	3960.2
17.5°	4370.8	4367.8	4317.2	4248.8	4213.1	4156.5	4147.6	4120.8	4144.6	4132.7
20°	4596.9	4629.6	4638.5	4558.2	4421.3	4358.9	4344.0	4323.2	4349.9	4341.0
22.5°	4942.0	4891.4	4930.1	4790.3	4739.7	4590.9	4537.4	4507.6	4635.6	4602.8
25°	5162.2	5215.8	5177.1	5129.5	5016.4	4831.9	4793.3	4858.7	4909.3	4873.6
27.5°	5659.1	5605.5	5569.8	5427.0	5352.6	5159.2	5114.6	5090.8	5102.7	5123.5
30°	6036.9	6066.7	5986.4	5885.2	5697.8	5501.4	5397.2	5376.4	5334.8	5299.1
32.5°	6575.5	6530.8	6483.2	6417.8	6257.1	5998.3	5897.1	5819.7	5694.8	5528.2
35°	6834.3	6962.3	6926.6	6751.0	6629.0	6530.8	6501.1	6382.1	6277.9	6016.1
37.5°	7265.8	7319.3	7268.7	7212.2	7155.7	7051.5	7015.8	7048.6	6843.3	6411.8
40°	7545.4	7658.5	7762.6	7604.9	7593.0	7613.9	7393.7	7355.0	6932.5	6706.4
42.5°	8116.7	8164.3	8185.1	8179.2	8247.6	8247.6	7828.1	7744.8	7444.3	7259.8
45°	8872.4	8911.1	8985.5	9039.1	8961.7	9000.4	8402.3	8369.6	8101.8	8066.1
47.5°	9527.0	9619.2	9785.9	9943.6	10044.7	9913.8	9259.2	9027.1	8958.7	9172.9
50°	10098.3	9988.2	10377.9	10538.6	10981.9	11199.1	10205.4	10113.1	10003.1	10413.7
52.5°	10154.8	10303.6	10854.0	11175.3	12088.8	12490.4	11365.8	11327.1	11193.2	11666.3
55°	10559.4	10541.6	11095.0	11791.2	12877.2	13552.6	12877.2	12853.4	12561.8	13011.1
57.5°	10491.0	10672.5	11109.9	12082.8	13588.3	14692.2	14629.7	14466.1	14058.4	14424.4
60°	10258.9	10306.5	10839.1	12073.9	14001.9	15861.5	16522.0	16554.7	15721.6	16013.2
62.5°	8943.8	9053.9	9729.3	11124.8	13707.3	16667.8	18369.7	18253.6	17587.2	17253.9
65°	7114.0	7003.9	7706.1	9214.6	11874.5	16096.5	19179.0	19610.4	18563.1	17953.1
67.5°	4361.8	4335.1	5010.5	6340.4	8884.3	13698.4	18533.3	18869.5	18292.3	17804.4
70°	2246.4	2177.9	2600.4	3537.7	5584.7	10050.7	16129.3	16459.5	17010.0	15968.6
72.5°	1047.3	1032.4	1258.6	1740.6	2844.4	5909.0	12490.4	12728.5	13888.8	13463.4
75°	615.9	624.8	752.8	910.5	1386.5	2784.9	8289.3	8750.4	10009.0	9702.5
77.5°	461.2	461.2	535.6	633.7	809.3	1077.1	4091.1	4701.0	5852.5	5263.4
80°	339.2	345.1	410.6	476.1	562.3	556.4	1624.5	1904.2	2683.7	2294.0
82.5°	264.8	273.7	318.4	354.1	395.7	336.2	666.5	717.1	1103.8	877.7
85°	184.5	190.4	249.9	241.0	241.0	187.4	276.7	291.6	437.4	416.5
87.5°	44.6	50.6	122.0	133.9	101.2	56.5	86.3	98.2	157.7	181.5
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°
3412.7	0°	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7	3412.7
3472.2	2.5°	3427.6	3439.5	3490.1	3463.3	3478.2	3415.7	3466.3	3424.6	3460.3	3442.5
3499.0	5°	3522.8	3496.0	3525.8	3504.9	3504.9	3528.7	3564.4	3537.7	3591.2	3567.4
3519.8	7.5°	3561.5	3564.4	3582.3	3585.3	3570.4	3644.8	3647.8	3638.8	3689.4	3677.5
3662.6	10°	3656.7	3659.7	3692.4	3710.2	3695.4	3722.1	3692.4	3668.6	3665.6	3653.7
3775.7	12.5°	3808.4	3838.2	3832.2	3847.1	3850.1	3737.0	3668.6	3552.5	3537.7	3552.5
3942.3	15°	3948.3	3936.4	3942.3	3972.1	3847.1	3665.6	3543.6	3445.4	3451.4	3454.4
4159.5	17.5°	4114.9	4123.8	4132.7	3995.9	3766.8	3552.5	3445.4	3445.4	3415.7	3427.6
4311.3	20°	4305.3	4269.6	4192.2	3998.8	3626.9	3421.6	3388.9	3388.9	3353.2	3329.4
4474.9	22.5°	4454.1	4382.7	4266.6	3906.6	3502.0	3371.0	3290.7	3234.2	3192.5	3144.9
4656.4	25°	4549.3	4510.6	4284.5	3811.4	3409.7	3237.2	3118.1	3031.9	2978.3	2915.8
4799.2	27.5°	4695.1	4620.7	4335.1	3701.3	3308.6	3103.3	2918.8	2784.9	2683.7	2618.3
5016.4	30°	4891.4	4784.3	4299.4	3543.6	3153.8	2871.2	2654.0	2481.4	2365.4	2311.8
5221.7	32.5°	5052.1	4912.3	4269.6	3400.8	2981.3	2636.1	2347.5	2172.0	2106.5	2038.1
5566.8	35°	5358.6	5081.9	4248.8	3320.5	2826.6	2401.1	2097.6	1945.9	1862.6	1761.4
5772.1	37.5°	5593.6	5376.4	4198.2	3153.8	2627.2	2172.0	1907.2	1770.3	1645.4	1538.2
6248.2	40°	5962.6	5787.0	4201.2	2918.8	2392.2	1975.6	1758.4	1615.6	1457.9	1365.7
6953.3	42.5°	6655.8	6191.7	4219.0	2731.4	2127.4	1815.0	1624.5	1454.9	1297.2	1219.9
7756.7	45°	7506.8	6748.0	4108.9	2561.8	1856.6	1663.2	1463.9	1294.3	1193.1	1136.6
8848.6	47.5°	8485.6	7292.5	3960.2	2243.4	1630.5	1502.5	1315.1	1216.9	1142.5	1109.8
10256.0	50°	9580.6	8072.1	3918.5	1951.8	1454.9	1365.7	1243.7	1169.3	1118.7	1080.0
11841.8	52.5°	10990.9	8979.5	3835.2	1651.3	1303.2	1255.6	1216.9	1166.3	1121.7	1089.0
13320.5	55°	12338.7	9985.2	3745.9	1404.4	1196.1	1202.0	1222.9	1178.2	1139.6	1089.0
14977.8	57.5°	13856.1	11011.7	3415.7	1222.9	1115.7	1175.3	1216.9	1166.3	1127.6	1089.0
16673.7	60°	14793.3	11588.9	2770.0	1065.2	1044.3	1124.7	1181.2	1127.6	1086.0	1100.9
17453.3	62.5°	15174.2	11285.4	2088.7	967.0	993.8	1056.2	1124.7	1103.8	1074.1	1130.6
17444.4	65°	14525.6	10586.2	1493.6	883.7	925.3	987.8	1074.1	1097.9	1106.8	1216.9
16022.1	67.5°	12924.8	9217.6	1097.9	815.2	853.9	946.2	1109.8	1148.5	1142.5	1279.4
13445.5	70°	10342.2	7209.2	856.9	758.7	827.1	978.9	1160.4	1160.4	1118.7	1279.4
10256.0	72.5°	7524.6	5081.9	737.9	693.3	758.7	898.5	1154.4	1151.5	1097.9	1169.3
6530.8	75°	4555.2	2957.5	651.6	627.8	651.6	770.6	1103.8	1086.0	1011.6	1005.7
3141.9	77.5°	2270.2	1487.7	532.6	556.4	568.3	645.6	970.0	996.7	895.6	871.8
1240.7	80°	958.1	648.6	443.3	479.0	479.0	544.5	806.3	824.2	743.8	699.2
490.9	82.5°	437.4	371.9	377.9	416.5	389.8	422.5	639.7	660.5	604.0	529.6
208.3	85°	184.5	211.2	288.6	327.3	288.6	273.7	440.3	464.2	392.7	327.3
89.3	87.5°	83.3	116.0	181.5	238.0	145.8	127.9	235.1	244.0	196.4	145.8
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>
3412.7
3409.7
3534.7
3659.7
3653.7
3558.5
3496.0
3430.6
3293.7
3118.1
2927.7
2648.0
2341.6
2035.1
1752.5
1541.2
1374.6
1225.8
1148.5
1103.8
1086.0
1086.0
1086.0
1086.0
1089.0
1115.7
1216.9
1288.3
1252.6
1127.6
993.8
856.9
684.3
517.7
330.3
136.9
0.0

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