

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: P477250

Luminaire Tested: **IFLD-L-SA8A-722-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

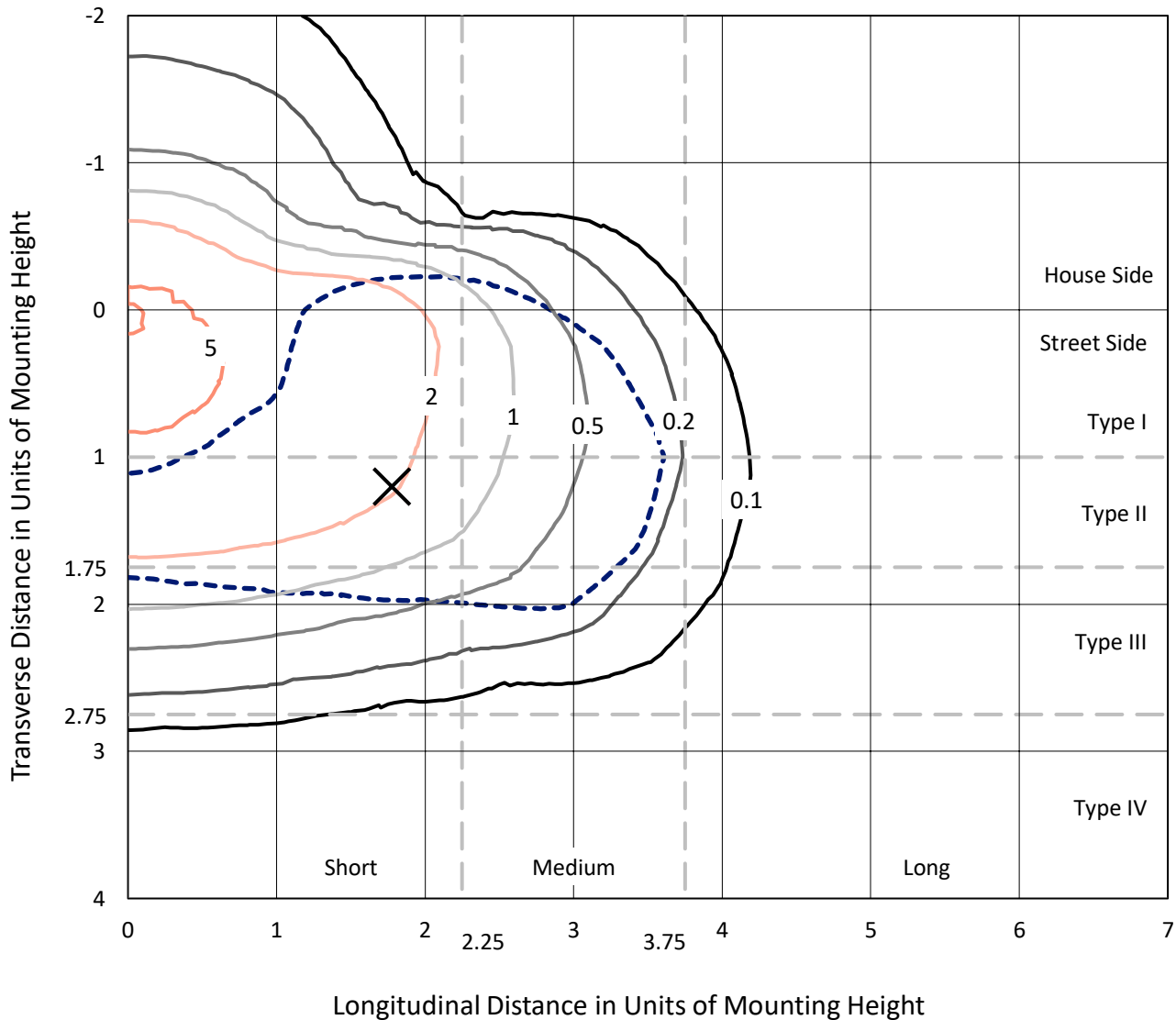
Lumens per Lamp: N/A
Luminaire Lumens: 25700.5 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

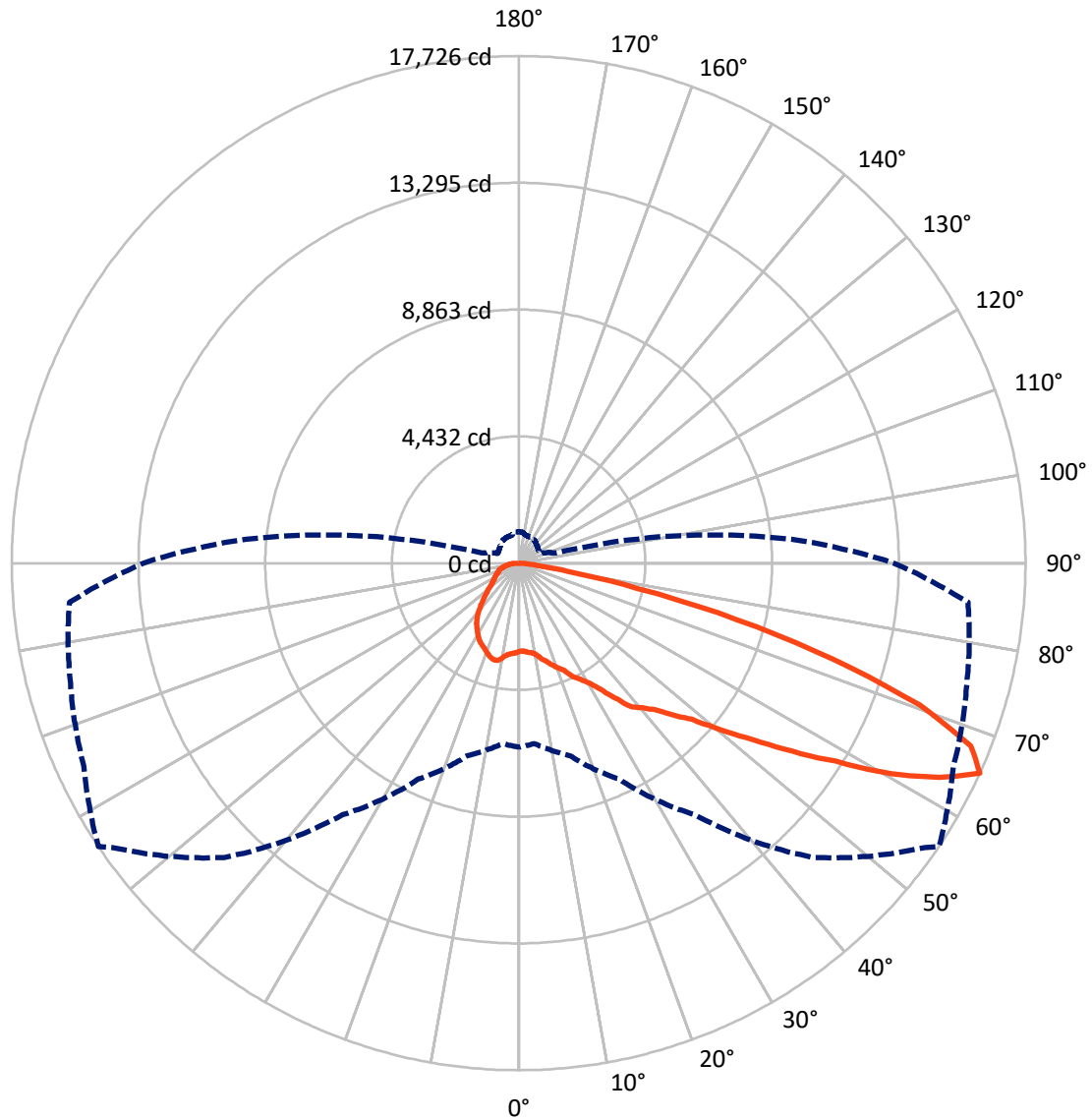
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5763.8	0.0	5763.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19936.7	0.0	19936.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	25700.5	0.0	25700.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.2
10°-20°	992.6	3.9
20°-30°	1767.4	6.9
30°-40°	2646.7	10.3
40°-50°	3921.4	15.3
50°-60°	6042.3	23.5
60°-70°	6840.6	26.6
70°-80°	2838.9	11.0
80°-90°	344.9	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°	25700.5	100.0
0°-180°	25700.5	100.0

Coefficient of Utilization



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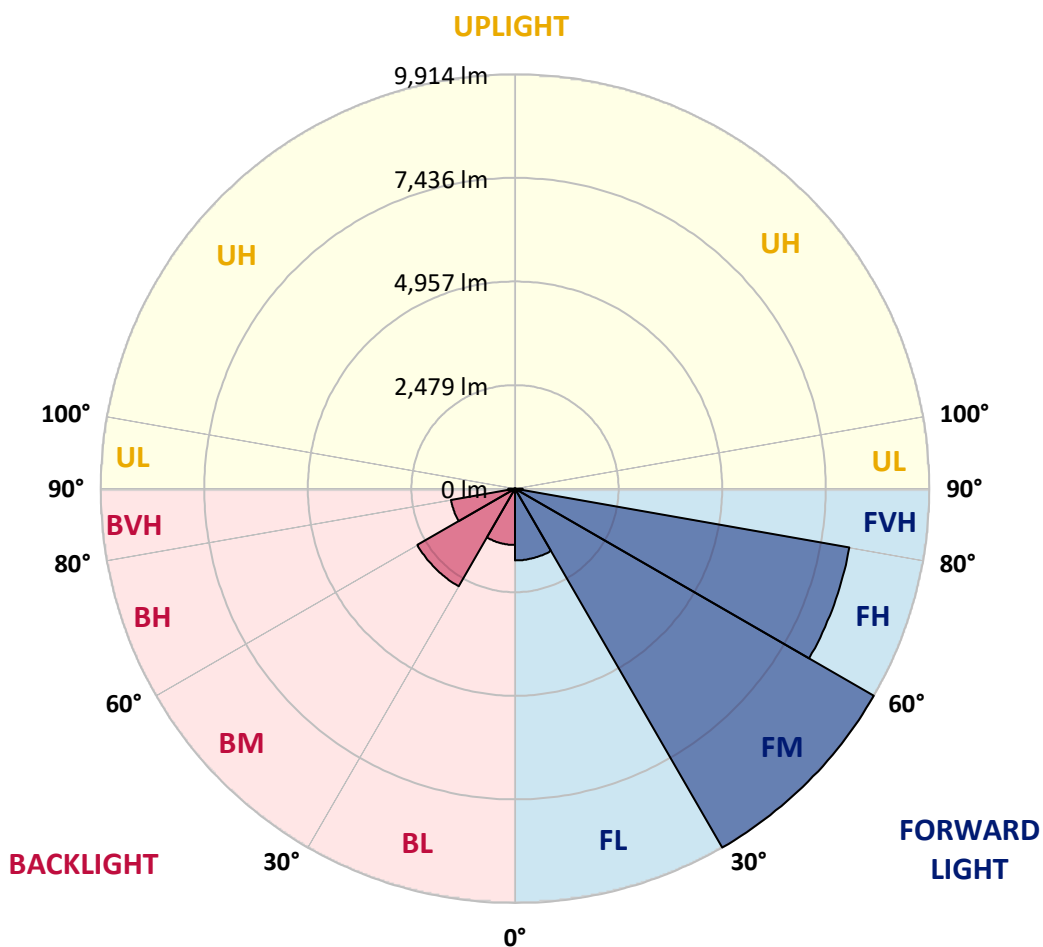
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1717.5	6.7			
FM (30°-60°)	9914.1	38.6			
FH (60°-80°)	8123.1	31.6			G4/12000
FVH (80°-90°)	181.9	0.7			G2/225
BL (0°-30°)	1348.2	5.2	B3/2500		
BM (30°-60°)	2696.2	10.5	B3/5000		
BH (60°-80°)	1556.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	163.0	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°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	3004.1	3020.2	3009.5	3041.8	3068.7	3068.7	3090.2	3074.0	3095.5	3125.1
5°	3103.6	3039.1	3074.0	3090.2	3082.1	3095.5	3074.0	3127.8	3092.9	3149.3
7.5°	3127.8	3152.0	3181.6	3154.7	3178.9	3165.5	3168.2	3160.1	3141.3	3187.0
10°	3305.3	3270.4	3337.6	3297.3	3291.9	3286.5	3275.7	3235.4	3281.1	3283.8
12.5°	3509.7	3477.4	3474.8	3442.5	3485.5	3407.5	3423.7	3402.1	3410.2	3421.0
15°	3657.6	3644.2	3706.1	3668.4	3611.9	3577.0	3614.6	3555.4	3585.0	3579.6
17.5°	3950.8	3948.1	3902.4	3840.5	3808.3	3757.2	3749.1	3724.9	3746.4	3735.6
20°	4155.2	4184.8	4192.8	4120.2	3996.5	3940.0	3926.6	3907.8	3932.0	3923.9
22.5°	4467.2	4421.4	4456.4	4330.0	4284.3	4149.8	4101.4	4074.5	4190.2	4160.6
25°	4666.2	4714.6	4679.6	4636.6	4534.4	4367.7	4332.7	4391.9	4437.6	4405.3
27.5°	5115.3	5066.9	5034.6	4905.5	4838.3	4663.5	4623.2	4601.6	4612.4	4631.2
30°	5456.9	5483.8	5411.2	5319.7	5150.3	4972.8	4878.6	4859.8	4822.2	4789.9
32.5°	5943.7	5903.3	5860.3	5801.1	5655.9	5421.9	5330.5	5260.5	5147.6	4997.0
35°	6177.6	6293.3	6261.0	6102.3	5992.1	5903.3	5876.4	5768.9	5674.7	5438.1
37.5°	6567.6	6616.0	6570.3	6519.2	6468.1	6374.0	6341.7	6371.3	6185.7	5795.7
40°	6820.4	6922.6	7016.8	6874.2	6863.5	6882.3	6683.3	6648.3	6266.4	6062.0
42.5°	7336.8	7379.8	7398.7	7393.3	7455.1	7455.1	7075.9	7000.6	6729.0	6562.2
45°	8019.9	8054.9	8122.1	8170.5	8100.6	8135.6	7595.0	7565.4	7323.4	7291.1
47.5°	8611.6	8695.0	8845.6	8988.1	9079.6	8961.2	8369.5	8159.8	8097.9	8291.6
50°	9128.0	9028.5	9380.8	9526.0	9926.7	10123.1	9224.8	9141.4	9041.9	9413.0
52.5°	9179.1	9313.5	9811.1	10101.5	10927.2	11290.3	10273.7	10238.7	10117.7	10545.3
55°	9544.8	9528.7	10028.9	10658.3	11639.9	12250.4	11639.9	11618.4	11354.8	11760.9
57.5°	9483.0	9647.0	10042.4	10921.8	12282.7	13280.5	13224.0	13076.1	12707.6	13038.4
60°	9273.2	9316.2	9797.6	10913.8	12656.5	14337.4	14934.5	14964.1	14211.0	14474.6
62.5°	8084.5	8184.0	8794.5	10055.8	12390.3	15066.3	16604.6	16499.7	15897.3	15596.1
65°	6430.5	6330.9	6965.7	8329.2	10733.6	14549.9	17336.1	17726.1	16779.4	16228.1
67.5°	3942.7	3918.5	4529.0	5731.2	8030.7	12382.2	16752.5	17056.4	16534.7	16093.6
70°	2030.5	1968.7	2350.6	3197.7	5048.1	9084.9	14579.5	14878.0	15375.5	14434.2
72.5°	946.7	933.2	1137.6	1573.3	2571.1	5341.2	11290.3	11505.4	12554.3	12169.7
75°	556.7	564.8	680.4	823.0	1253.3	2517.3	7492.8	7909.6	9047.3	8770.3
77.5°	416.9	416.9	484.1	572.9	731.5	973.6	3698.0	4249.3	5290.1	4757.6
80°	306.6	312.0	371.1	430.3	508.3	502.9	1468.4	1721.2	2425.9	2073.6
82.5°	239.4	247.4	287.8	320.0	357.7	303.9	602.4	648.2	997.8	793.4
85°	166.7	172.1	225.9	217.8	217.8	169.4	250.1	263.6	395.3	376.5
87.5°	40.3	45.7	110.3	121.0	91.4	51.1	78.0	88.8	142.5	164.1
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°
3084.8	0°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
3138.6	2.5°	3098.2	3109.0	3154.7	3130.5	3144.0	3087.5	3133.2	3095.5	3127.8	3111.7
3162.8	5°	3184.3	3160.1	3187.0	3168.2	3168.2	3189.7	3222.0	3197.7	3246.2	3224.6
3181.6	7.5°	3219.3	3222.0	3238.1	3240.8	3227.3	3294.6	3297.3	3289.2	3334.9	3324.2
3310.7	10°	3305.3	3308.0	3337.6	3353.7	3340.3	3364.5	3337.6	3316.1	3313.4	3302.6
3412.9	12.5°	3442.5	3469.4	3464.0	3477.4	3480.1	3377.9	3316.1	3211.2	3197.7	3211.2
3563.5	15°	3568.9	3558.1	3563.5	3590.4	3477.4	3313.4	3203.1	3114.4	3119.8	3122.4
3759.8	17.5°	3719.5	3727.6	3735.6	3611.9	3404.8	3211.2	3114.4	3114.4	3087.5	3098.2
3897.0	20°	3891.6	3859.3	3789.4	3614.6	3278.4	3092.9	3063.3	3063.3	3031.0	3009.5
4044.9	22.5°	4026.1	3961.5	3856.7	3531.2	3165.5	3047.1	2974.5	2923.4	2885.8	2842.7
4209.0	25°	4112.2	4077.2	3872.8	3445.2	3082.1	2926.1	2818.5	2740.5	2692.1	2635.7
4338.1	27.5°	4243.9	4176.7	3918.5	3345.7	2990.7	2805.1	2638.3	2517.3	2425.9	2366.7
4534.4	30°	4421.4	4324.6	3886.2	3203.1	2850.8	2595.3	2399.0	2243.0	2138.1	2089.7
4720.0	32.5°	4566.7	4440.3	3859.3	3074.0	2694.8	2382.8	2122.0	1963.3	1904.1	1842.3
5031.9	35°	4843.7	4593.6	3840.5	3001.4	2555.0	2170.4	1896.1	1758.9	1683.6	1592.1
5217.5	37.5°	5056.2	4859.8	3794.8	2850.8	2374.8	1963.3	1723.9	1600.2	1487.3	1390.4
5647.8	40°	5389.6	5231.0	3797.5	2638.3	2162.3	1785.8	1589.5	1460.4	1317.8	1234.5
6285.2	42.5°	6016.3	5596.7	3813.6	2468.9	1923.0	1640.6	1468.4	1315.1	1172.6	1102.7
7011.4	45°	6785.5	6099.7	3714.1	2315.6	1678.2	1503.4	1323.2	1169.9	1078.5	1027.4
7998.4	47.5°	7670.3	6591.8	3579.6	2027.8	1473.8	1358.2	1188.7	1100.0	1032.7	1003.2
9270.5	50°	8660.0	7296.5	3542.0	1764.3	1315.1	1234.5	1124.2	1057.0	1011.2	976.3
10704.0	52.5°	9934.8	8116.7	3466.7	1492.6	1178.0	1134.9	1100.0	1054.3	1013.9	984.3
12040.6	55°	11153.1	9025.8	3386.0	1269.4	1081.2	1086.5	1105.4	1065.0	1030.1	984.3
13538.7	57.5°	12524.7	9953.6	3087.5	1105.4	1008.5	1062.3	1100.0	1054.3	1019.3	984.3
15071.6	60°	13371.9	10475.4	2503.9	962.8	944.0	1016.6	1067.7	1019.3	981.6	995.1
15776.3	62.5°	13716.2	10201.1	1888.0	874.1	898.3	954.8	1016.6	997.8	970.9	1022.0
15768.2	65°	13129.9	9569.0	1350.1	798.8	836.4	892.9	970.9	992.4	1000.5	1100.0
14482.6	67.5°	11682.9	8331.9	992.4	736.9	771.9	855.2	1003.2	1038.1	1032.7	1156.5
12153.6	70°	9348.5	6516.5	774.6	685.8	747.7	884.8	1048.9	1048.9	1011.2	1156.5
9270.5	72.5°	6801.6	4593.6	667.0	626.6	685.8	812.2	1043.5	1040.8	992.4	1057.0
5903.3	75°	4117.5	2673.3	589.0	567.5	589.0	696.6	997.8	981.6	914.4	909.0
2840.1	77.5°	2052.0	1344.7	481.4	502.9	513.7	583.6	876.8	901.0	809.5	788.0
1121.5	80°	866.0	586.3	400.7	433.0	433.0	492.2	728.8	745.0	672.4	632.0
443.8	82.5°	395.3	336.2	341.6	376.5	352.3	381.9	578.2	597.1	546.0	478.7
188.3	85°	166.7	191.0	260.9	295.8	260.9	247.4	398.0	419.6	355.0	295.8
80.7	87.5°	75.3	104.9	164.1	215.2	131.8	115.6	212.5	220.5	177.5	131.8
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>
3084.8
3082.1
3195.1
3308.0
3302.6
3216.6
3160.1
3100.9
2977.2
2818.5
2646.4
2393.6
2116.6
1839.6
1584.1
1393.1
1242.5
1108.1
1038.1
997.8
981.6
981.6
981.6
981.6
984.3
1008.5
1100.0
1164.5
1132.3
1019.3
898.3
774.6
618.6
468.0
298.5
123.7
0.0

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