

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: McGRAW-EDISON

Report Number: P941489

Luminaire Tested: **GALN-SB5A-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23694 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

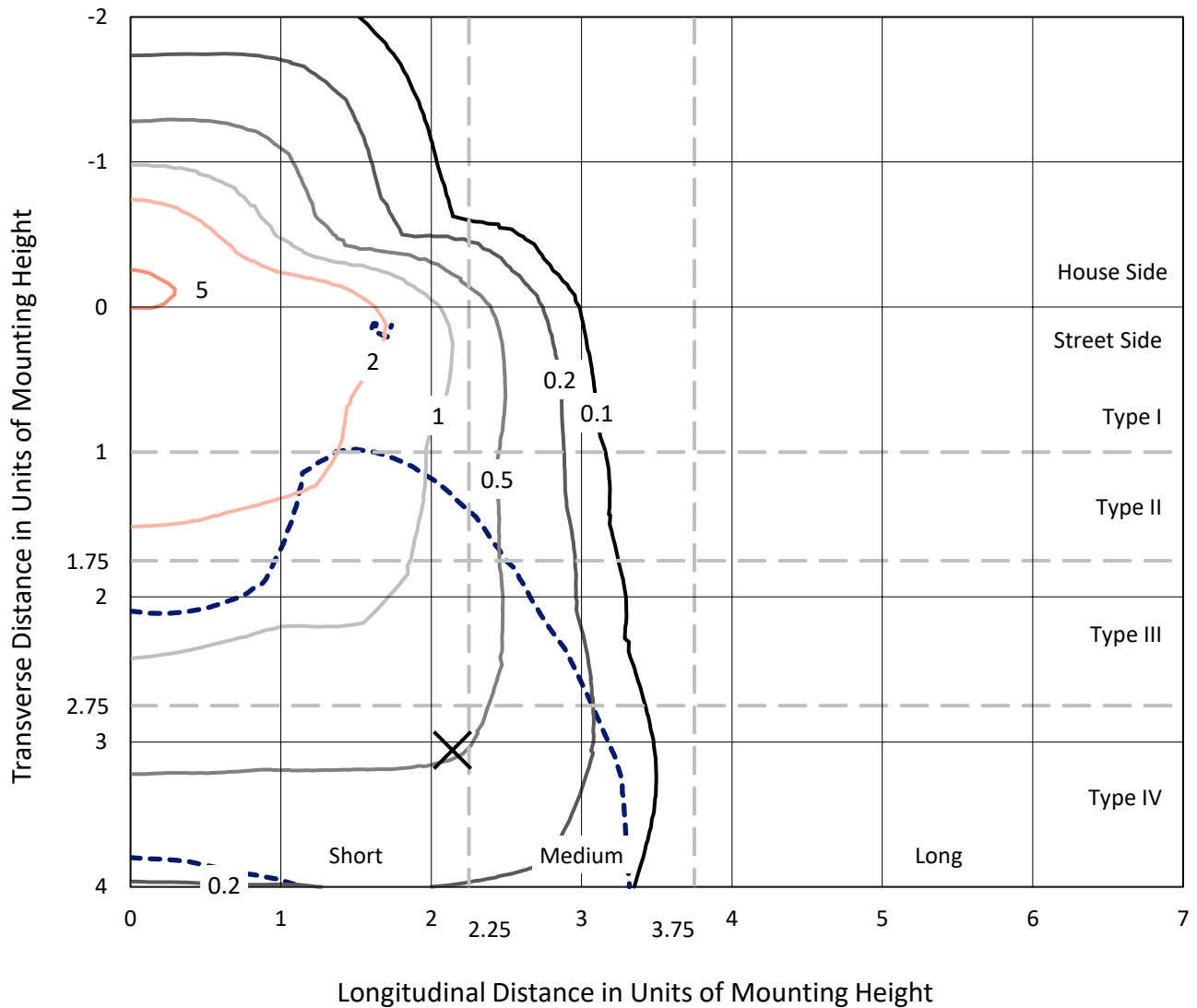
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

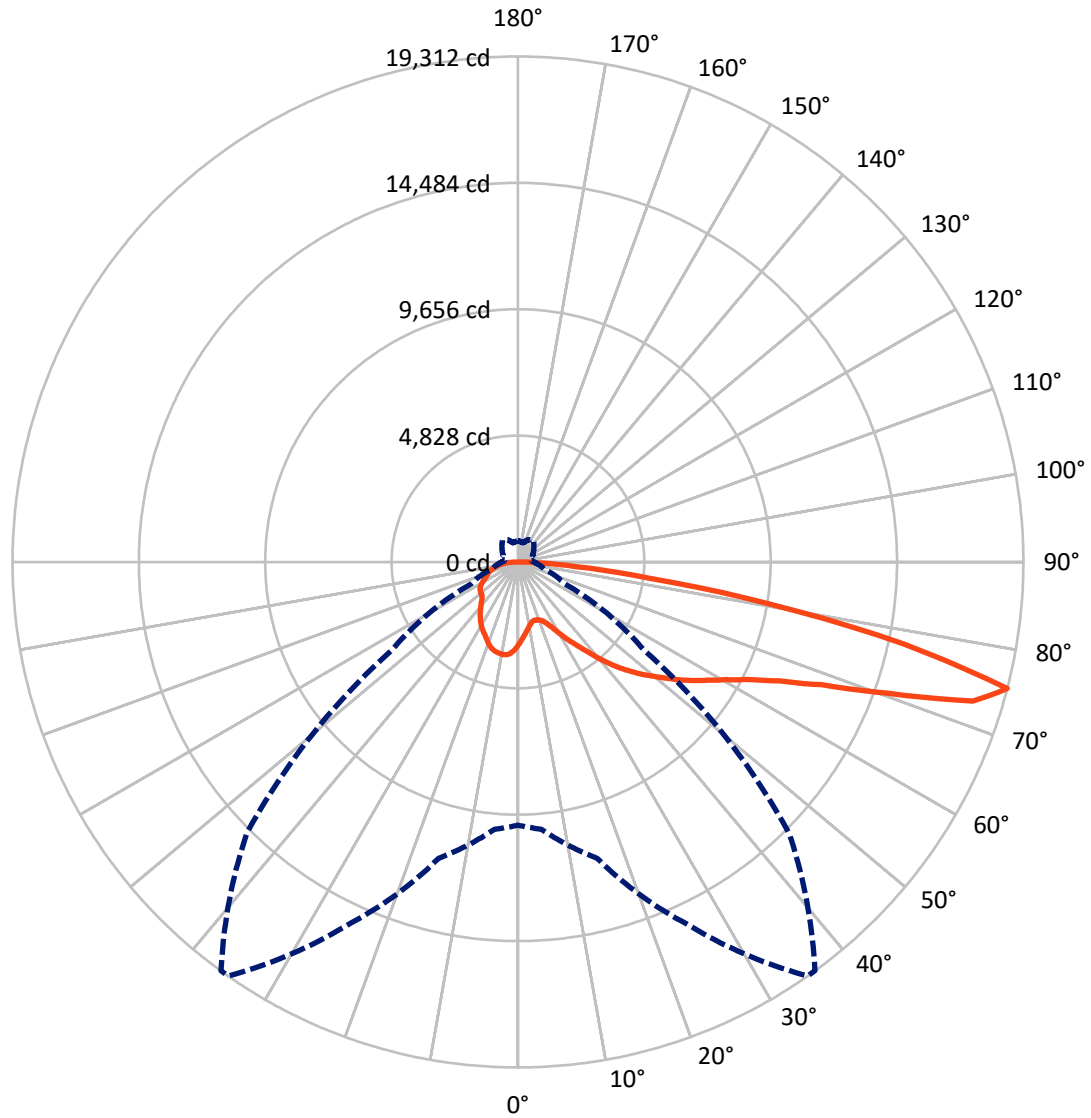
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5638.6	0.0	5638.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18055.4	0.0	18055.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	23694.0	0.0	23694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.3
10°-20°	862.3	3.6
20°-30°	1448.0	6.1
30°-40°	2250.4	9.5
40°-50°	3340.2	14.1
50°-60°	4611.3	19.5
60°-70°	5594.5	23.6
70°-80°	4623.5	19.5
80°-90°	665.0	2.8
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°	23694.0	100.0
0°-180°	23694.0	100.0

Coefficient of Utilization



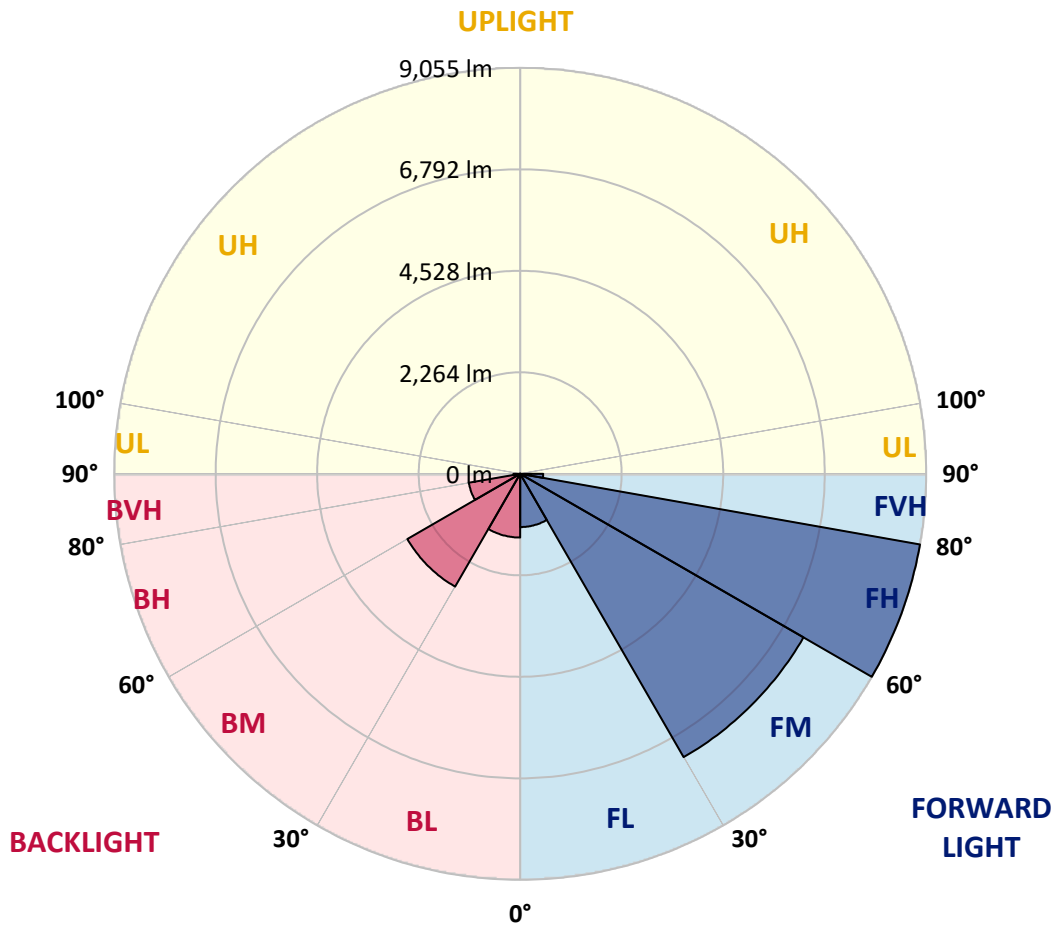
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.2	5.0			
FM (30°-60°)	7296.5	30.8			
FH (60°-80°)	9055.5	38.2			G4/12000
FVH (80°-90°)	515.3	2.2			G4/750
BL (0°-30°)	1421.0	6.0	B3/2500		
BM (30°-60°)	2905.3	12.3	B3/5000		
BH (60°-80°)	1162.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	149.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4
2.5°	2911.5	2929.4	2937.1	2933.2	2952.4	2949.9	2976.8	3010.1	3056.2	3101.0
5°	2687.3	2706.5	2723.2	2738.5	2775.7	2787.2	2829.5	2893.5	2978.1	3063.9
7.5°	2478.5	2495.2	2520.8	2549.0	2611.7	2623.3	2693.7	2793.6	2911.5	3037.0
10°	2308.2	2324.8	2351.7	2383.7	2461.9	2476.0	2565.6	2698.8	2852.5	3011.4
12.5°	2235.1	2240.3	2255.6	2287.7	2355.6	2364.5	2463.1	2615.6	2794.9	2992.2
15°	2231.3	2241.6	2242.8	2259.5	2315.8	2319.7	2410.6	2561.8	2759.0	2988.3
17.5°	2269.7	2277.4	2265.9	2276.1	2323.5	2329.9	2401.7	2536.2	2747.5	3005.0
20°	2372.2	2378.6	2344.0	2329.9	2364.5	2369.6	2440.1	2552.8	2759.0	3039.5
22.5°	2590.0	2593.8	2509.3	2451.6	2454.2	2456.7	2518.2	2620.7	2803.9	3102.3
25°	2929.4	2926.8	2792.3	2680.9	2616.9	2602.8	2643.8	2730.9	2879.4	3185.6
27.5°	3326.5	3307.2	3172.8	3006.2	2866.6	2846.1	2837.2	2874.3	2987.0	3295.7
30°	3774.8	3756.8	3612.1	3394.3	3200.9	3167.6	3083.1	3063.9	3147.1	3445.6
32.5°	4266.6	4255.1	4082.2	3818.3	3559.6	3521.2	3379.0	3327.7	3393.1	3672.3
35°	4679.1	4668.8	4525.4	4253.8	3937.4	3890.1	3745.3	3687.7	3721.0	3963.1
37.5°	5051.8	5046.7	4923.7	4709.8	4383.2	4325.6	4162.9	4143.7	4137.3	4346.0
40°	5397.7	5384.8	5256.8	5144.0	4902.0	4849.4	4706.0	4689.3	4640.7	4817.4
42.5°	5780.6	5747.3	5561.6	5509.1	5443.8	5400.2	5314.4	5317.0	5209.4	5349.0
45°	6093.2	6074.0	5883.1	5852.4	5922.8	5904.9	5979.2	5998.4	5789.6	5906.2
47.5°	6428.8	6410.8	6249.4	6227.7	6418.5	6423.6	6686.2	6692.6	6355.8	6485.1
50°	6842.5	6816.9	6656.8	6683.7	6897.6	6916.8	7397.1	7353.6	6877.1	7073.1
52.5°	7115.3	7130.7	7096.1	7139.7	7431.7	7449.6	8096.5	7985.0	7393.3	7653.3
55°	7316.4	7347.2	7454.8	7554.7	7995.3	8013.2	8756.1	8585.8	7821.1	8191.3
57.5°	7575.2	7531.6	7732.7	7927.4	8530.7	8578.1	9397.9	9164.7	8200.2	8655.0
60°	7946.6	7915.9	8072.1	8360.3	9130.2	9205.7	10076.7	9686.1	8478.2	9022.6
62.5°	8699.8	8622.9	8647.3	8902.2	9885.9	9985.8	10842.7	10140.8	8616.5	9166.0
65°	9825.7	9693.8	9570.8	9747.5	10950.3	11048.9	11707.3	10498.1	8565.3	8888.1
67.5°	11243.6	11113.0	10961.8	11128.3	12518.1	12596.2	12774.3	10699.2	8161.8	7817.3
70°	12413.1	12364.4	12545.0	13230.3	15022.2	15024.8	14142.3	10532.7	7056.4	5542.4
72.5°	12258.1	12228.6	13180.3	15298.9	18178.3	18110.5	15437.2	9272.3	4753.4	2500.3
75°	10056.2	10247.1	11721.4	15261.8	19311.9	19303.0	14644.4	5894.6	1966.2	1036.2
77.5°	5392.5	5694.8	7609.7	11268.0	15076.0	15302.8	10295.8	2062.2	844.1	663.5
80°	1758.7	2022.5	3033.1	5737.1	9796.2	9754.0	4412.7	809.5	577.7	470.1
82.5°	746.8	777.5	1355.2	2709.1	5027.5	4949.3	1405.1	465.0	406.0	321.5
85°	292.0	326.6	598.2	1252.7	2177.5	2130.1	507.2	230.6	260.0	210.1
87.5°	96.1	116.6	213.9	429.1	677.6	653.3	124.2	79.4	112.7	96.1
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°
3157.4	0°	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4
3166.4	2.5°	3184.3	3204.8	3229.1	3265.0	3295.7	3321.3	3348.2	3364.9	3371.3	3390.5
3171.5	5°	3207.3	3252.2	3312.4	3371.3	3428.9	3463.5	3494.3	3509.6	3523.7	3534.0
3185.6	7.5°	3245.8	3303.4	3398.2	3475.0	3523.7	3551.9	3572.4	3567.3	3572.4	3575.0
3200.9	10°	3279.1	3359.8	3472.5	3545.5	3582.6	3583.9	3578.8	3560.9	3551.9	3553.2
3224.0	12.5°	3318.8	3408.4	3530.1	3591.6	3601.9	3573.7	3551.9	3521.2	3509.6	3504.5
3258.6	15°	3372.6	3475.0	3592.9	3615.9	3590.3	3554.5	3517.3	3467.4	3441.7	3421.2
3317.5	17.5°	3437.9	3550.6	3641.6	3624.9	3569.8	3510.9	3450.7	3375.1	3322.6	3300.8
3398.2	20°	3528.8	3630.0	3678.7	3605.7	3522.4	3432.8	3330.3	3238.1	3189.4	3167.6
3500.7	22.5°	3639.0	3736.3	3714.6	3572.4	3454.6	3311.1	3183.0	3115.1	3090.8	3075.4
3632.6	25°	3770.9	3854.2	3740.2	3523.7	3343.1	3149.7	3051.1	3029.3	3017.8	3006.2
3794.0	27.5°	3942.6	3987.4	3759.4	3452.0	3168.9	2978.1	2942.2	2946.0	2942.2	2923.0
4018.1	30°	4169.3	4160.3	3777.3	3335.4	2969.1	2823.1	2825.6	2842.3	2844.8	2832.0
4330.7	32.5°	4467.7	4376.8	3786.3	3184.3	2778.2	2687.3	2689.9	2707.8	2720.6	2698.8
4739.3	35°	4828.9	4629.1	3772.2	2994.7	2630.9	2557.9	2538.7	2543.8	2547.7	2527.2
5235.0	37.5°	5250.4	4912.2	3709.4	2784.6	2509.3	2431.1	2390.1	2355.6	2335.1	2315.8
5796.0	40°	5712.8	5220.9	3594.2	2579.7	2373.5	2296.6	2235.1	2169.8	2100.7	2075.0
6390.3	42.5°	6196.9	5538.6	3454.6	2383.7	2217.2	2154.5	2089.1	1994.3	1890.6	1838.1
7007.7	45°	6699.0	5863.9	3317.5	2190.3	2057.1	2030.2	1954.6	1840.6	1727.9	1661.3
7626.4	47.5°	7190.9	6171.3	3116.4	1995.6	1907.2	1936.7	1877.8	1772.7	1647.2	1542.2
8239.9	50°	7661.0	6459.5	2787.2	1798.4	1785.6	1908.5	1852.2	1701.0	1557.6	1423.1
8842.0	52.5°	8127.2	6692.6	2365.8	1619.0	1720.2	1900.8	1818.9	1652.3	1476.9	1336.0
9408.1	55°	8523.0	6813.0	1959.8	1465.3	1625.4	1835.5	1779.2	1594.7	1362.9	1213.0
9796.2	57.5°	8748.5	6715.7	1621.6	1314.2	1494.8	1727.9	1711.3	1471.7	1227.1	1111.8
9871.8	60°	8651.1	6321.2	1344.9	1182.3	1370.5	1611.4	1593.4	1350.1	1123.3	1014.5
9467.0	62.5°	8114.4	5569.3	1125.9	1067.0	1257.8	1492.2	1475.6	1256.5	1043.9	938.9
8392.4	65°	7033.3	4530.5	955.5	970.9	1143.8	1348.8	1373.1	1178.4	981.2	878.7
6492.8	67.5°	5364.4	3281.6	822.3	887.7	1032.4	1207.9	1278.3	1122.1	928.6	831.3
3756.8	70°	3057.5	1863.7	709.6	807.0	933.8	1077.2	1205.3	1077.2	872.3	791.6
1407.7	72.5°	1159.2	855.6	613.5	726.3	839.0	967.1	1124.6	1006.8	807.0	746.8
727.5	75°	618.7	521.3	516.2	631.5	730.1	859.5	1023.4	937.6	758.3	789.0
503.4	77.5°	421.4	368.9	431.7	540.5	611.0	740.4	915.8	832.6	657.1	654.5
348.4	80°	292.0	261.3	351.0	435.5	472.6	622.5	799.3	714.7	535.4	499.5
215.2	82.5°	175.5	170.4	262.6	325.3	334.3	480.3	662.2	599.5	438.1	381.7
128.1	85°	96.1	101.2	167.8	190.9	194.7	335.6	518.8	463.7	336.9	283.1
46.1	87.5°	26.9	34.6	61.5	75.6	93.5	174.2	308.7	275.4	169.1	117.8
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>
3157.4
3389.2
3536.5
3578.8
3555.7
3501.9
3427.7
3302.1
3165.1
3078.0
3006.2
2926.8
2838.4
2709.1
2541.3
2328.7
2086.6
1844.5
1656.2
1530.7
1411.5
1320.6
1200.2
1096.4
999.1
922.2
862.0
815.9
781.3
736.5
<i>814.6</i>
603.3
477.8
384.3
285.6
117.8
0.0

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