

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: P947146

Luminaire Tested: **GALN-SB2C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13376 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

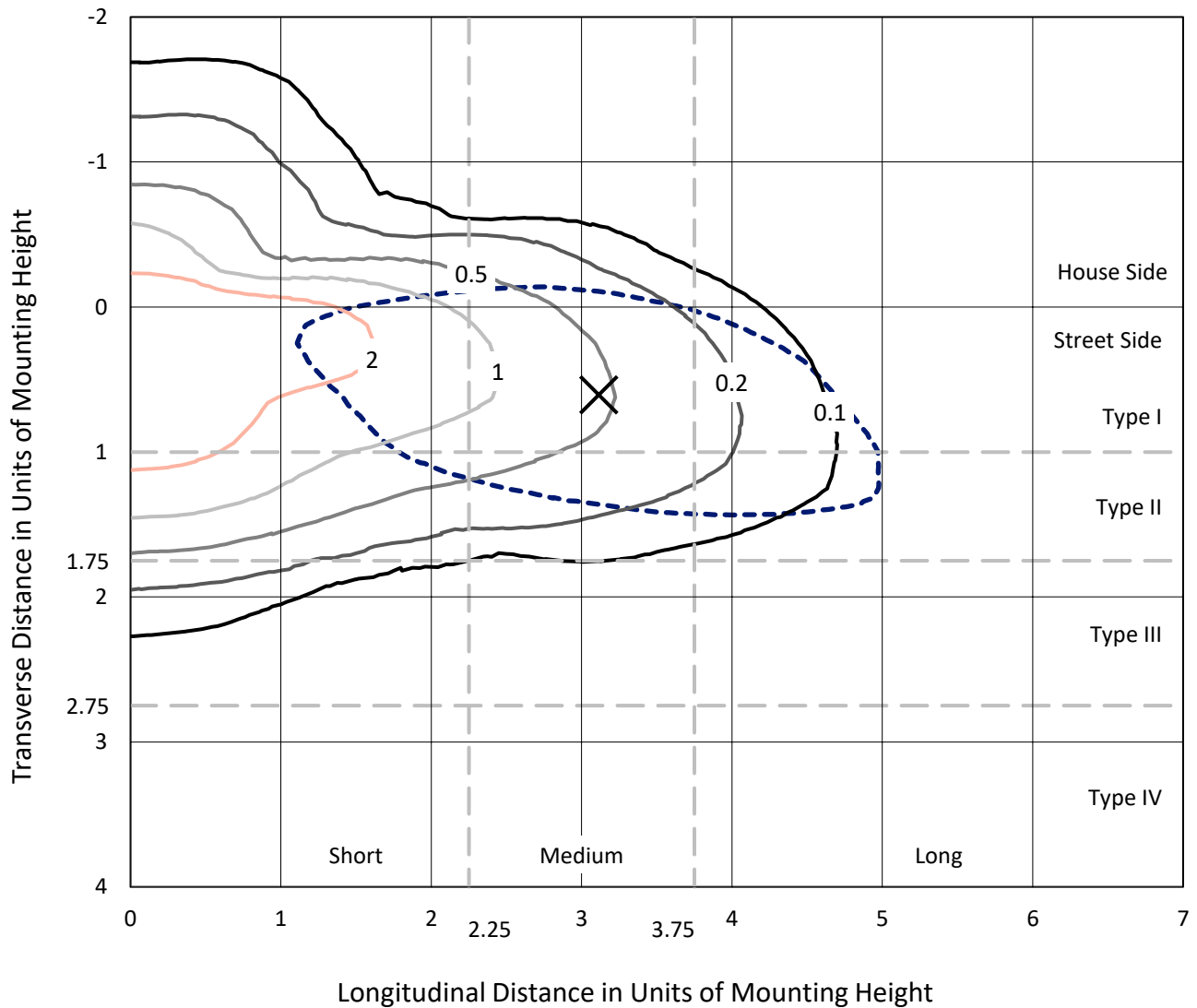
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

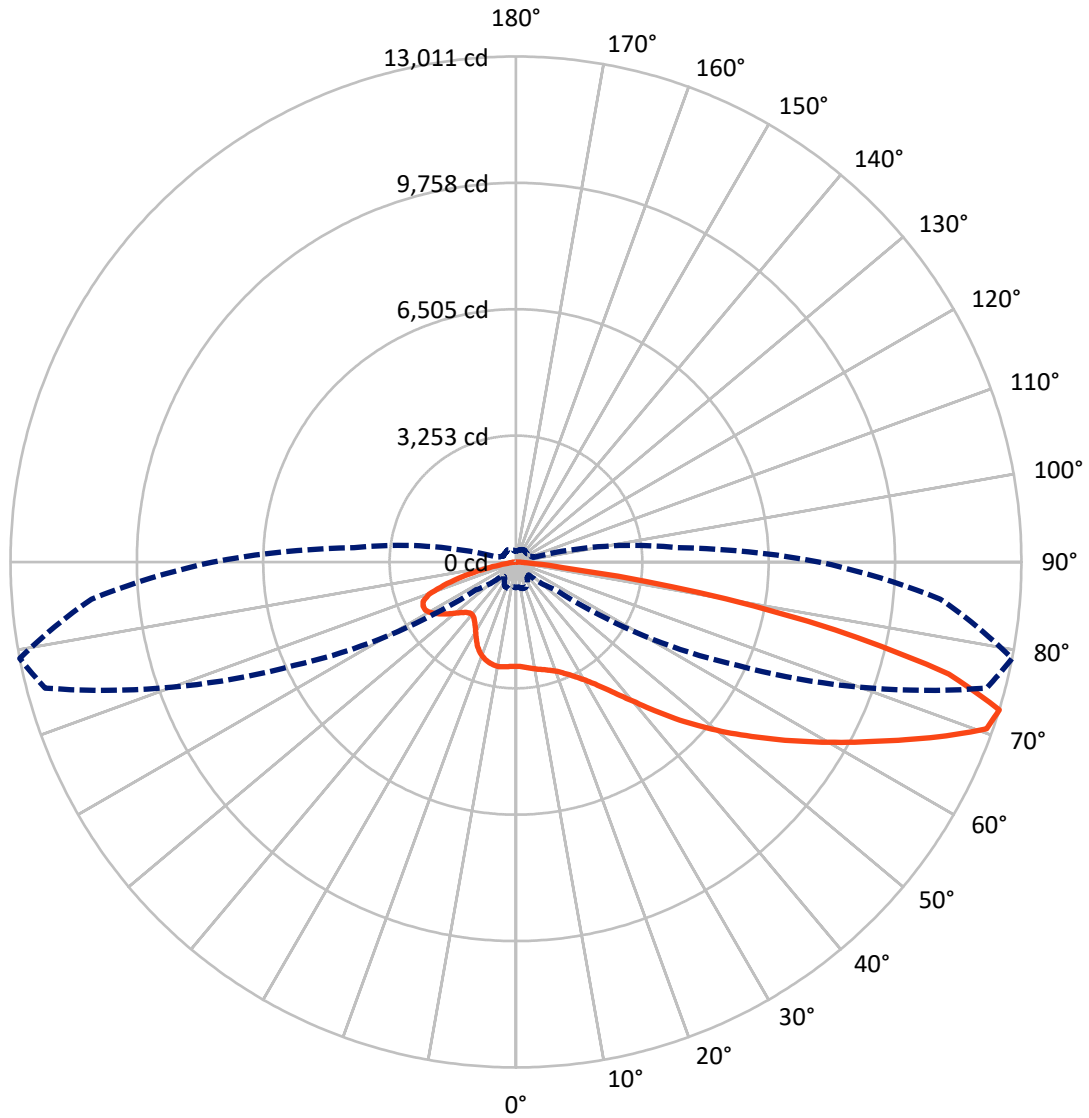
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2943.5	0.0	2943.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10432.5	0.0	10432.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	13376.0	0.0	13376.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.8
10°-20°	637.2	4.8
20°-30°	1028.2	7.7
30°-40°	1543.2	11.5
40°-50°	2189.2	16.4
50°-60°	2764.6	20.7
60°-70°	2807.8	21.0
70°-80°	1913.7	14.3
80°-90°	248.3	1.9
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°	13376.0	100.0
0°-180°	13376.0	100.0



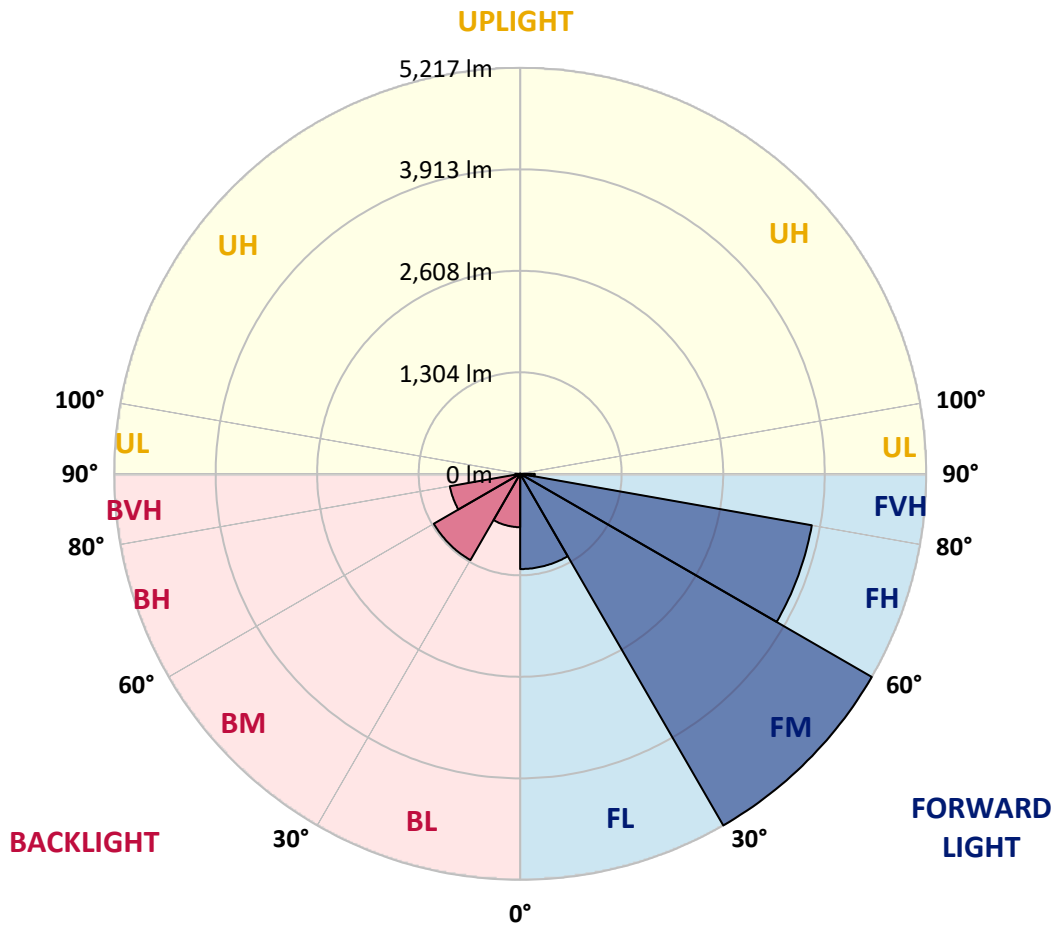
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.6	9.1			
FM (30°-60°)	5216.9	39.0			
FH (60°-80°)	3805.0	28.4			G2/5000
FVH (80°-90°)	187.0	1.4			G2/225
BL (0°-30°)	685.6	5.1	B2/1000		
BM (30°-60°)	1280.1	9.6	B2/2500		
BH (60°-80°)	916.5	6.9	B2/1000		G2/1000
BVH (80°-90°)	61.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1
2.5°	2686.5	2673.8	2681.6	2678.7	2682.3	2686.5	2687.9	2690.1	2697.1	2696.4
5°	2680.9	2668.1	2678.7	2675.2	2684.4	2694.3	2702.8	2710.6	2721.9	2726.8
7.5°	2668.8	2660.3	2671.0	2681.6	2698.5	2713.4	2725.4	2743.1	2759.4	2762.2
10°	2598.8	2592.4	2617.2	2644.8	2691.5	2731.8	2758.0	2778.5	2796.2	2799.0
12.5°	2525.9	2518.1	2545.7	2583.2	2658.9	2731.8	2787.0	2813.9	2829.4	2838.6
15°	2513.9	2507.5	2523.1	2555.6	2618.6	2712.7	2806.8	2856.3	2869.8	2880.4
17.5°	2571.9	2559.9	2566.2	2577.6	2614.4	2695.0	2822.4	2904.4	2925.0	2936.3
20°	2706.3	2689.4	2679.4	2656.8	2650.4	2697.8	2821.0	2962.5	2989.3	3003.5
22.5°	2885.3	2874.0	2852.8	2795.5	2733.2	2732.5	2847.8	3036.8	3087.0	3100.4
25°	3101.8	3084.9	3058.0	2980.1	2860.6	2801.1	2893.1	3131.6	3215.8	3219.3
27.5°	3350.9	3325.4	3288.6	3186.0	3024.7	2908.7	2962.5	3240.5	3363.6	3362.2
30°	3613.4	3587.9	3549.0	3424.5	3221.4	3053.7	3058.7	3358.0	3539.1	3531.3
32.5°	3805.1	3786.0	3778.3	3682.0	3447.8	3225.0	3169.1	3488.2	3755.6	3748.5
35°	3952.3	3927.5	3936.7	3887.9	3694.8	3416.7	3304.2	3643.1	4018.8	4018.1
37.5°	4098.1	4076.1	4083.9	4051.4	3923.3	3660.1	3469.1	3832.7	4345.0	4360.6
40°	4231.1	4207.7	4238.9	4208.4	4100.9	3919.1	3656.6	4047.1	4722.8	4752.5
42.5°	4311.0	4292.6	4344.3	4345.0	4255.1	4137.7	3862.4	4283.4	5160.1	5226.6
45°	4338.6	4332.3	4410.1	4426.4	4391.7	4264.3	4047.8	4541.0	5631.3	5750.2
47.5°	4308.9	4296.9	4404.4	4464.6	4492.2	4323.8	4201.4	4819.7	6112.4	6286.5
50°	4158.9	4135.6	4295.5	4422.1	4520.5	4362.7	4356.3	5141.7	6659.3	6849.7
52.5°	3889.3	3871.6	4053.5	4273.5	4458.2	4381.8	4530.4	5493.3	7178.7	7424.9
55°	3544.8	3521.4	3721.6	4008.9	4303.2	4375.4	4704.4	5886.7	7791.4	8041.2
57.5°	2998.5	2951.8	3205.1	3544.8	4050.7	4367.6	4885.5	6278.0	8414.0	8713.3
60°	2201.9	2132.5	2443.1	2845.7	3556.8	4291.9	5109.8	6716.7	9161.2	9430.8
62.5°	1282.1	1241.7	1444.8	1820.5	2680.9	3846.2	5235.8	7226.8	9895.6	10178.6
65°	995.5	984.2	1001.9	1030.9	1492.2	2879.7	4847.3	7724.2	10829.6	11027.7
67.5°	910.6	902.1	909.9	855.4	757.1	1604.0	3834.9	7850.1	11830.0	11950.3
70°	809.4	799.5	825.0	778.3	595.7	729.5	2477.8	7393.1	12626.0	12851.7
72.5°	659.4	648.1	707.5	686.3	501.6	468.4	1244.6	6307.0	12542.5	13010.9
75°	506.6	500.2	571.0	588.7	409.0	368.6	597.2	4688.1	11037.6	11509.5
77.5°	393.4	388.4	424.5	488.9	329.7	285.8	367.2	2973.8	8317.8	8400.6
80°	295.0	280.9	314.1	378.5	256.8	208.7	249.1	1734.2	5257.7	4766.0
82.5°	184.7	177.6	205.2	252.6	181.1	143.6	162.0	958.0	2107.0	1241.0
85°	105.4	102.6	111.8	144.3	98.3	82.8	92.7	423.1	384.9	264.6
87.5°	42.5	41.0	50.9	64.4	36.1	30.4	32.5	101.9	84.9	78.5
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°
2685.1	0°	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1
2695.7	2.5°	2692.9	2692.9	2683.0	2667.4	2649.7	2638.4	2620.0	2615.1	2596.0	2590.3
2719.8	5°	2725.4	2719.8	2689.4	2645.5	2585.3	2530.2	2469.3	2431.1	2377.3	2358.2
2767.2	7.5°	2766.5	2750.9	2698.5	2602.3	2476.4	2352.6	2223.8	2126.2	2032.8	1999.5
2806.1	10°	2804.0	2782.0	2692.9	2524.5	2306.6	2092.2	1887.0	1743.4	1634.4	1589.8
2849.3	12.5°	2841.5	2801.1	2655.4	2395.0	2065.3	1774.5	1555.9	1444.1	1376.9	1323.1
2884.6	15°	2876.8	2820.2	2597.4	2221.7	1800.7	1505.6	1344.3	1255.2	1201.4	1166.0
2936.3	17.5°	2917.9	2836.5	2510.3	2001.6	1548.8	1319.6	1188.0	1134.2	1123.6	1119.3
3007.0	20°	2975.2	2851.4	2395.7	1755.4	1363.4	1171.0	1103.1	1098.1	1097.4	1095.3
3091.9	22.5°	3036.8	2869.1	2244.3	1531.8	1205.6	1078.3	1066.3	1056.4	1050.0	1049.3
3194.5	25°	3109.6	2874.7	2054.7	1348.6	1071.2	1034.4	1020.3	1005.4	1001.2	1001.2
3311.3	27.5°	3180.4	2855.6	1833.9	1189.4	995.5	994.1	975.7	970.7	970.0	972.2
3444.3	30°	3251.1	2819.5	1614.6	1042.2	951.6	951.6	945.3	948.8	951.6	958.7
3626.8	32.5°	3346.7	2781.3	1431.3	933.2	913.4	906.4	912.7	919.8	922.6	931.8
3866.7	35°	3486.7	2754.4	1285.6	873.8	873.8	864.6	868.1	866.7	860.4	856.1
4156.8	37.5°	3672.1	2753.0	1165.3	846.2	840.6	839.1	839.8	830.6	805.9	776.2
4507.7	40°	3895.0	2791.2	1072.6	827.1	822.9	831.4	827.1	802.3	734.4	682.8
4939.3	42.5°	4194.3	2900.2	1013.2	803.8	816.5	827.1	810.1	724.5	678.5	643.9
5431.1	45°	4546.6	3077.1	982.8	779.0	804.5	817.2	735.1	697.6	660.8	619.1
5967.4	47.5°	4945.7	3300.0	975.7	755.7	777.6	785.4	703.3	686.3	644.6	599.3
6506.5	50°	5380.1	3563.9	994.8	728.1	738.7	711.8	692.7	677.1	634.0	589.4
7059.1	52.5°	5829.4	3854.7	1033.0	690.6	699.8	670.0	688.4	675.0	627.6	567.4
7630.1	55°	6270.9	4147.6	1069.8	646.7	660.1	632.5	676.4	666.5	598.6	530.7
8239.3	57.5°	6719.5	4439.1	1105.9	607.8	621.9	596.5	657.3	643.9	566.0	496.7
8904.4	60°	7185.8	4722.1	1122.9	570.3	580.2	563.2	628.3	604.9	529.2	462.0
9558.1	62.5°	7622.3	4957.7	1095.3	532.8	539.1	532.1	590.1	559.0	492.4	423.1
10239.5	65°	8060.3	5097.8	1010.4	496.0	497.4	493.9	536.3	509.4	449.3	389.1
10835.9	67.5°	8457.2	5176.3	875.2	456.4	452.8	451.4	486.1	455.7	407.5	355.2
11289.5	70°	8541.4	4976.8	668.6	409.7	409.7	406.1	430.9	399.8	361.6	319.1
10964.7	72.5°	7801.3	4186.5	474.8	356.6	362.3	355.2	375.7	349.5	314.9	286.6
9449.9	75°	6290.7	3070.0	345.3	302.1	312.0	300.0	319.1	300.7	271.0	270.3
6512.2	77.5°	4322.3	1898.3	250.5	249.1	256.1	240.6	262.5	252.6	225.7	213.7
2834.4	80°	1844.6	757.1	182.5	192.5	192.5	178.3	203.8	206.6	183.3	177.6
546.9	82.5°	367.2	215.1	128.1	132.3	124.5	120.3	144.3	159.9	220.8	245.5
164.9	85°	110.4	79.2	77.1	72.2	63.7	64.4	84.9	160.6	198.1	113.2
54.5	87.5°	30.4	19.8	20.5	16.3	13.4	17.7	29.0	121.7	66.5	28.3
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>
2685.1
2599.5
2372.4
2003.7
1599.7
1340.8
1172.4
1122.2
1102.3
1057.1
1005.4
977.8
963.7
939.6
866.0
776.9
681.4
642.4
616.3
595.7
584.4
563.2
527.1
495.3
459.9
422.4
384.9
350.9
317.7
278.1
243.4
200.2
177.6
246.2
97.6
24.1
0.0

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