

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: P950800

Luminaire Tested: **GALN-SB5A-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950800
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-SB5A-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13709 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

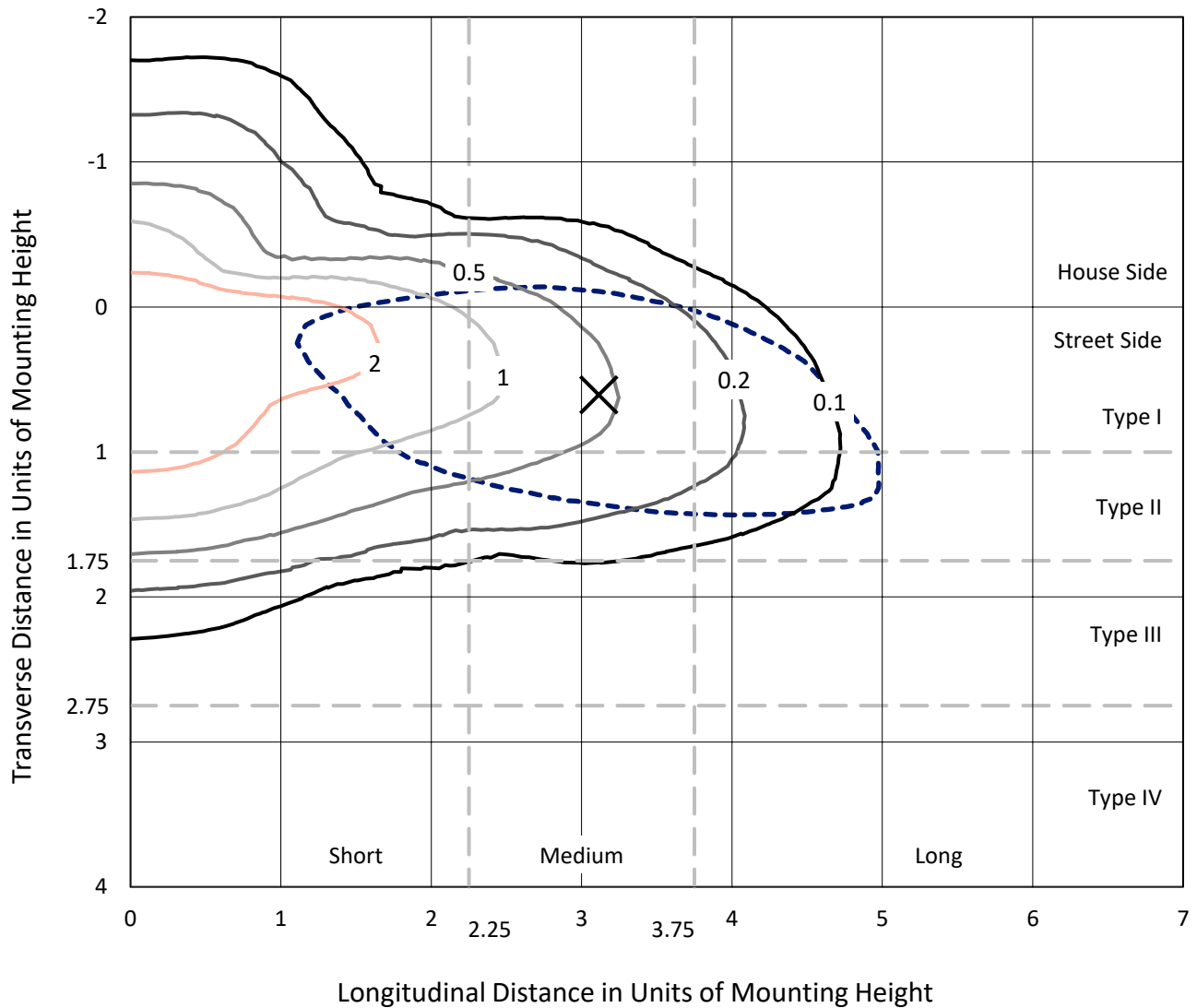
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

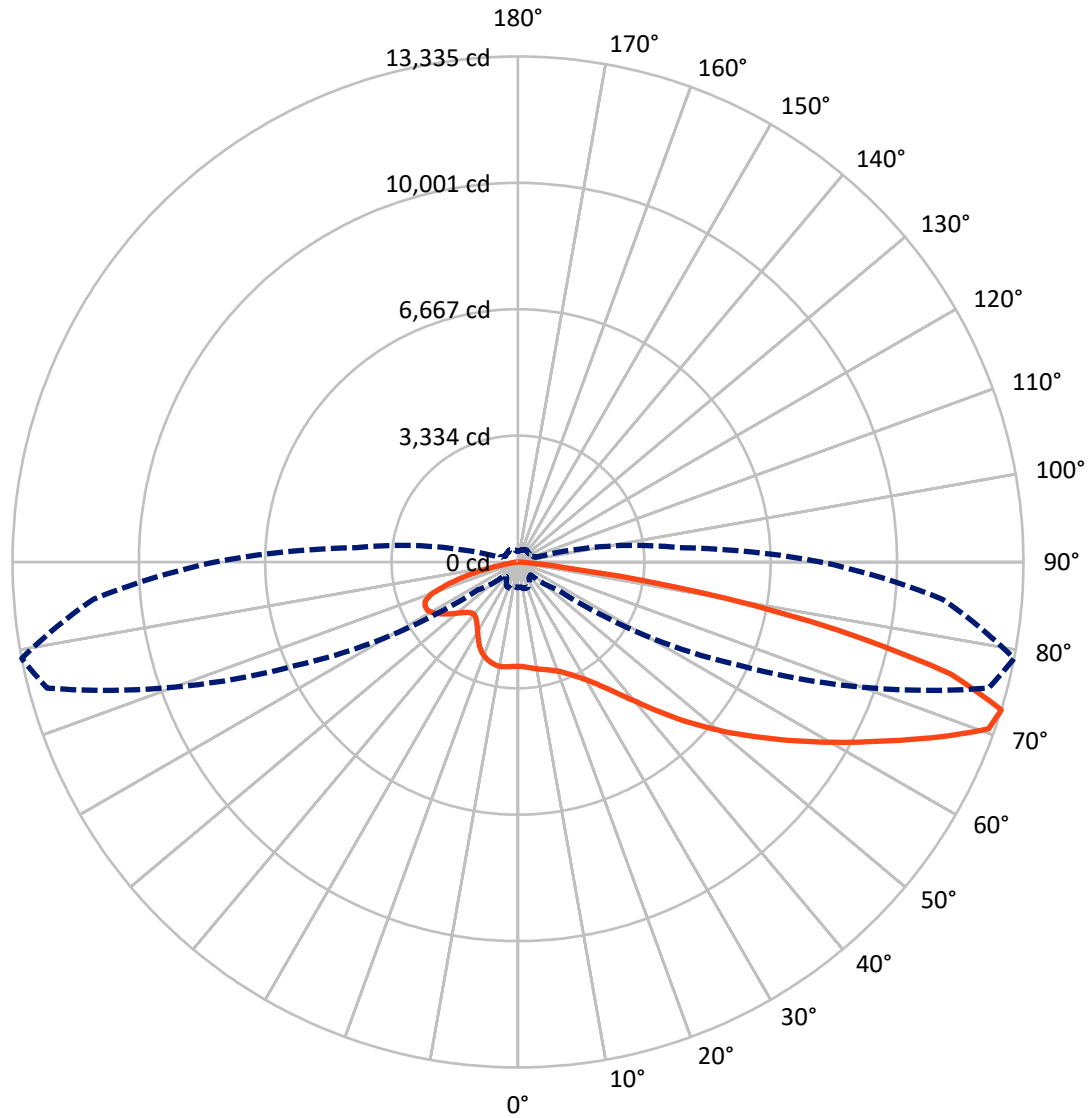
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	3016.7	0.0	3016.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10692.3	0.0	10692.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	13709.0	0.0	13709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	1.8
10°-20°	653.1	4.8
20°-30°	1053.8	7.7
30°-40°	1581.7	11.5
40°-50°	2243.7	16.4
50°-60°	2833.4	20.7
60°-70°	2877.7	21.0
70°-80°	1961.3	14.3
80°-90°	254.5	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°	13709.0	100.0
0°-180°	13709.0	100.0

Coefficient of Utilization



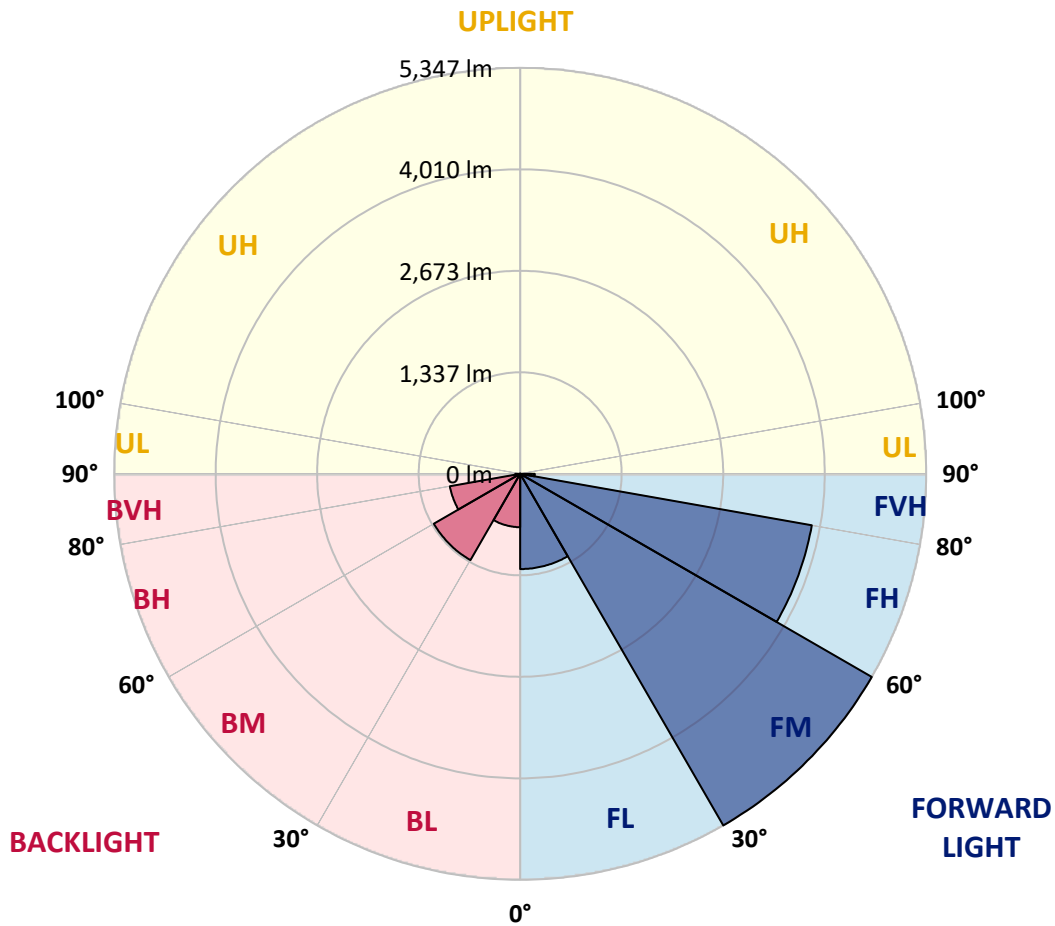
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.0	9.1			
FM (30°-60°)	5346.8	39.0			
FH (60°-80°)	3899.7	28.4			G2/5000
FVH (80°-90°)	191.7	1.4			G2/225
BL (0°-30°)	702.7	5.1	B2/1000		
BM (30°-60°)	1312.0	9.6	B2/2500		
BH (60°-80°)	939.3	6.9	B2/1000		G2/1000
BVH (80°-90°)	62.8	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°	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0
2.5°	2753.4	2740.3	2748.3	2745.4	2749.1	2753.4	2754.9	2757.0	2764.3	2763.6
5°	2747.6	2734.5	2745.4	2741.8	2751.2	2761.4	2770.1	2778.1	2789.7	2794.7
7.5°	2735.3	2726.6	2737.4	2748.3	2765.7	2781.0	2793.3	2811.4	2828.1	2831.0
10°	2663.5	2657.0	2682.3	2710.6	2758.5	2799.8	2826.6	2847.7	2865.8	2868.7
12.5°	2588.8	2580.8	2609.1	2647.5	2725.1	2799.8	2856.4	2883.9	2899.9	2909.3
15°	2576.5	2569.9	2585.9	2619.2	2683.8	2780.2	2876.7	2927.4	2941.2	2952.1
17.5°	2635.9	2623.6	2630.1	2641.7	2679.4	2762.1	2892.6	2976.7	2997.8	3009.4
20°	2773.7	2756.3	2746.2	2722.9	2716.4	2765.0	2891.2	3036.2	3063.8	3078.3
22.5°	2957.2	2945.6	2923.8	2865.1	2801.3	2800.5	2918.7	3112.4	3163.8	3177.6
25°	3179.1	3161.7	3134.1	3054.3	2931.8	2870.9	2965.1	3209.5	3295.8	3299.4
27.5°	3434.3	3408.2	3370.5	3265.4	3100.0	2981.1	3036.2	3321.2	3447.4	3445.9
30°	3703.4	3677.2	3637.4	3509.7	3301.6	3129.8	3134.8	3441.6	3627.2	3619.2
32.5°	3899.9	3880.3	3872.3	3773.7	3533.7	3305.2	3248.0	3575.0	3849.1	3841.9
35°	4050.7	4025.3	4034.7	3984.7	3786.7	3501.8	3386.5	3733.8	4118.9	4118.1
37.5°	4200.1	4177.6	4185.6	4152.2	4021.0	3751.2	3555.4	3928.1	4453.2	4469.1
40°	4336.4	4312.5	4344.4	4313.2	4203.0	4016.6	3747.6	4147.9	4840.4	4870.8
42.5°	4418.4	4399.5	4452.4	4453.2	4361.1	4240.7	3958.6	4390.1	5288.5	5356.7
45°	4446.6	4440.1	4519.9	4536.6	4501.0	4370.5	4148.6	4654.0	5771.5	5893.3
47.5°	4416.2	4403.8	4514.1	4575.7	4604.0	4431.4	4306.0	4939.7	6264.6	6443.0
50°	4262.4	4238.5	4402.4	4532.2	4633.0	4471.3	4464.8	5269.7	6825.1	7020.2
52.5°	3986.2	3968.0	4154.4	4379.9	4569.2	4490.9	4643.1	5630.1	7357.4	7609.7
55°	3633.0	3609.1	3814.3	4108.7	4410.4	4484.3	4821.5	6033.3	7985.4	8241.4
57.5°	3073.2	3025.3	3284.9	3633.0	4151.5	4476.4	5007.2	6434.3	8623.5	8930.2
60°	2256.7	2185.6	2503.9	2916.6	3645.3	4398.8	5237.0	6883.9	9389.3	9665.5
62.5°	1314.0	1272.6	1480.8	1865.8	2747.6	3941.9	5366.1	7406.7	10142.0	10432.0
65°	1020.3	1008.7	1026.8	1056.5	1529.3	2951.4	4968.0	7916.5	11099.2	11302.2
67.5°	933.3	924.6	932.5	876.7	775.9	1643.9	3930.3	8045.6	12124.5	12247.8
70°	829.6	819.4	845.5	797.7	610.6	747.6	2539.5	7577.1	12940.3	13171.7
72.5°	675.8	664.2	725.2	703.4	514.1	480.1	1275.5	6464.0	12854.8	13334.8
75°	519.2	512.7	585.2	603.3	419.1	377.8	612.0	4804.9	11312.4	11796.0
77.5°	403.2	398.1	435.1	501.1	337.9	293.0	376.4	3047.8	8524.9	8609.7
80°	302.4	287.9	322.0	388.0	263.2	213.9	255.3	1777.3	5388.6	4884.6
82.5°	189.3	182.0	210.3	258.9	185.6	147.2	166.1	981.9	2159.5	1271.9
85°	108.0	105.1	114.6	147.9	100.8	84.8	95.0	433.6	394.5	271.2
87.5°	43.5	42.1	52.2	66.0	37.0	31.2	33.4	104.4	87.0	80.5
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°
2752.0	0°	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0
2762.8	2.5°	2759.9	2759.9	2749.8	2733.8	2715.7	2704.1	2685.2	2680.2	2660.6	2654.8
2787.5	5°	2793.3	2787.5	2756.3	2711.3	2649.7	2593.1	2530.8	2491.6	2436.5	2416.9
2836.1	7.5°	2835.3	2819.4	2765.7	2667.1	2538.0	2411.1	2279.2	2179.1	2083.4	2049.3
2876.0	10°	2873.8	2851.3	2759.9	2587.3	2364.0	2144.3	1934.0	1786.8	1675.1	1629.4
2920.2	12.5°	2912.2	2870.9	2721.5	2454.6	2116.7	1818.7	1594.6	1480.0	1411.1	1356.0
2956.4	15°	2948.5	2890.5	2662.0	2277.0	1845.5	1543.1	1377.8	1286.4	1231.3	1195.1
3009.4	17.5°	2990.5	2907.1	2572.8	2051.5	1587.4	1352.4	1217.5	1162.4	1151.5	1147.2
3081.9	20°	3049.3	2922.4	2455.4	1799.1	1397.4	1200.1	1130.5	1125.4	1124.7	1122.5
3168.9	22.5°	3112.4	2940.5	2300.2	1570.0	1235.7	1105.1	1092.8	1082.7	1076.1	1075.4
3274.1	25°	3187.0	2946.3	2105.8	1382.1	1097.9	1060.2	1045.7	1030.4	1026.1	1026.1
3393.7	27.5°	3259.6	2926.7	1879.6	1219.0	1020.3	1018.8	1000.0	994.9	994.2	996.4
3530.0	30°	3332.1	2889.7	1654.8	1068.1	975.3	975.3	968.8	972.4	975.3	982.6
3717.1	32.5°	3430.0	2850.6	1467.0	956.5	936.2	928.9	935.4	942.7	945.6	955.0
3963.0	35°	3573.5	2823.0	1317.6	895.6	895.6	886.1	889.8	888.3	881.8	877.4
4260.3	37.5°	3763.5	2821.6	1194.3	867.3	861.5	860.0	860.8	851.3	825.9	795.5
4619.9	40°	3992.0	2860.7	1099.3	847.7	843.4	852.1	847.7	822.3	752.7	699.8
5062.3	42.5°	4298.7	2972.4	1038.4	823.8	836.8	847.7	830.3	742.6	695.4	659.9
5566.3	45°	4659.8	3153.7	1007.2	798.4	824.5	837.6	753.4	715.0	677.3	634.5
6115.9	47.5°	5068.8	3382.1	1000.0	774.5	796.9	804.9	720.8	703.4	660.6	614.2
6668.5	50°	5514.1	3652.6	1019.6	746.2	757.1	729.5	709.9	694.0	649.7	604.1
7234.8	52.5°	5974.5	3950.6	1058.7	707.7	717.2	686.7	705.6	691.8	643.2	581.6
7820.0	55°	6427.0	4250.8	1096.4	662.8	676.6	648.3	693.2	683.1	613.5	543.9
8444.4	57.5°	6886.8	4549.6	1133.4	622.9	637.4	611.3	673.7	659.9	580.1	509.1
9126.0	60°	7364.6	4839.7	1150.8	584.5	594.6	577.2	643.9	620.0	542.4	473.5
9796.1	62.5°	7812.1	5081.1	1122.5	546.0	552.6	545.3	604.8	572.9	504.7	433.6
10494.4	65°	8260.9	5224.7	1035.5	508.3	509.8	506.2	549.7	522.1	460.5	398.8
11105.7	67.5°	8667.7	5305.2	897.0	467.7	464.1	462.6	498.2	467.0	417.7	364.0
11570.5	70°	8754.0	5100.7	685.3	419.9	419.9	416.2	441.6	409.7	370.6	327.0
11237.7	72.5°	7995.5	4290.7	486.6	365.5	371.3	364.0	385.1	358.2	322.7	293.7
9685.1	75°	6447.3	3146.4	353.9	309.6	319.8	307.5	327.0	308.2	277.7	277.0
6674.3	77.5°	4430.0	1945.6	256.7	255.3	262.5	246.6	269.0	258.9	231.3	219.0
2905.0	80°	1890.5	775.9	187.1	197.2	197.2	182.7	208.8	211.7	187.8	182.0
560.5	82.5°	376.4	220.4	131.3	135.6	127.6	123.3	147.9	163.9	226.2	251.6
169.0	85°	113.1	81.2	79.0	74.0	65.3	66.0	87.0	164.6	203.0	116.0
55.8	87.5°	31.2	20.3	21.0	16.7	13.8	18.1	29.7	124.7	68.2	29.0
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>
2752.0
2664.2
2431.4
2053.6
1639.6
1374.2
1201.6
1150.1
1129.8
1083.4
1030.4
1002.2
987.7
963.0
887.6
796.2
698.3
658.4
631.6
610.6
599.0
577.2
540.2
507.6
471.3
432.9
394.5
359.7
325.6
285.0
249.5
205.2
182.0
252.4
100.1
24.7
0.0

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