

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: P953668

Luminaire Tested: **GALN-SB7A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19935 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

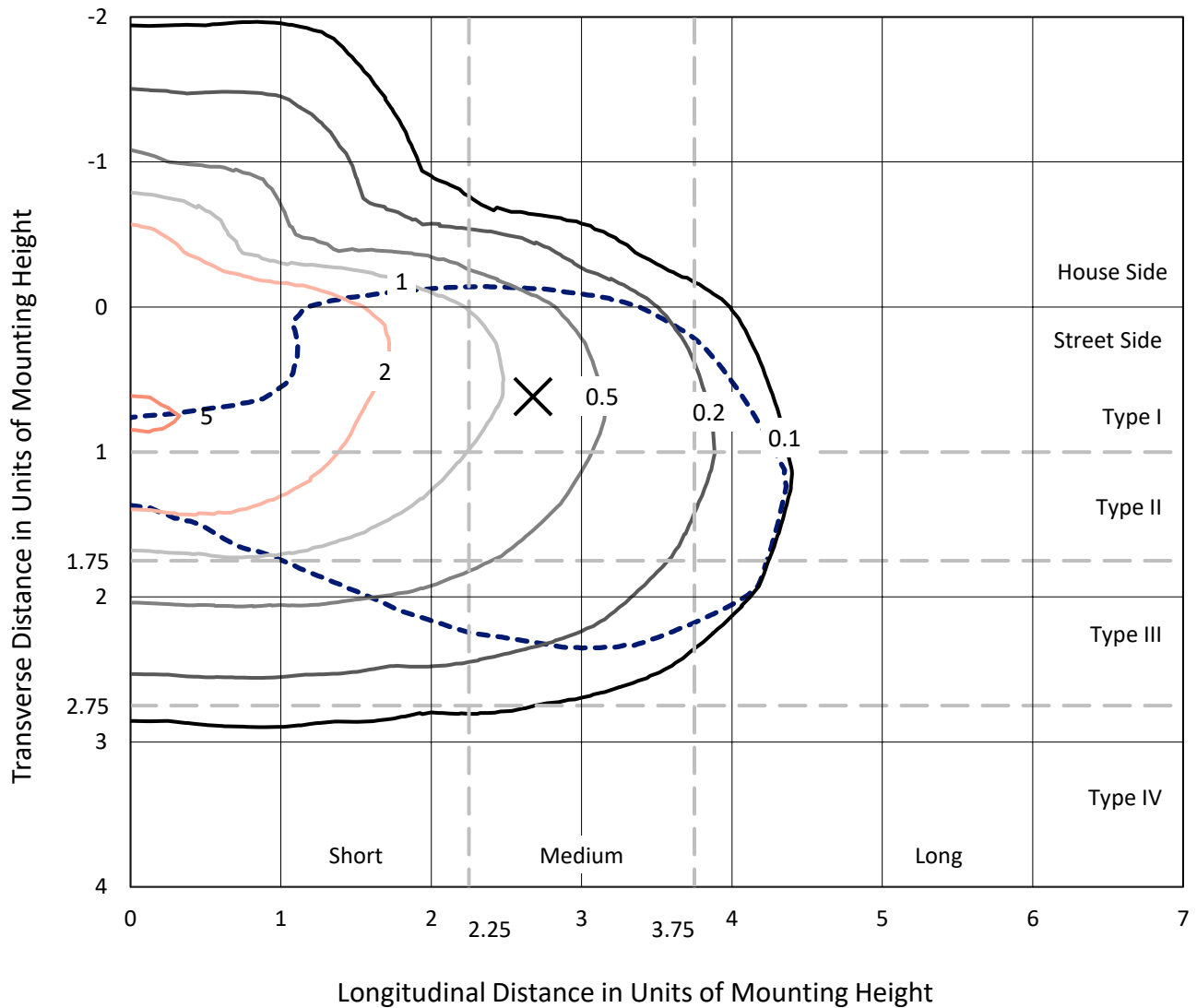
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953668
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Iso-Footcandle Lines of Horizontal Illumination

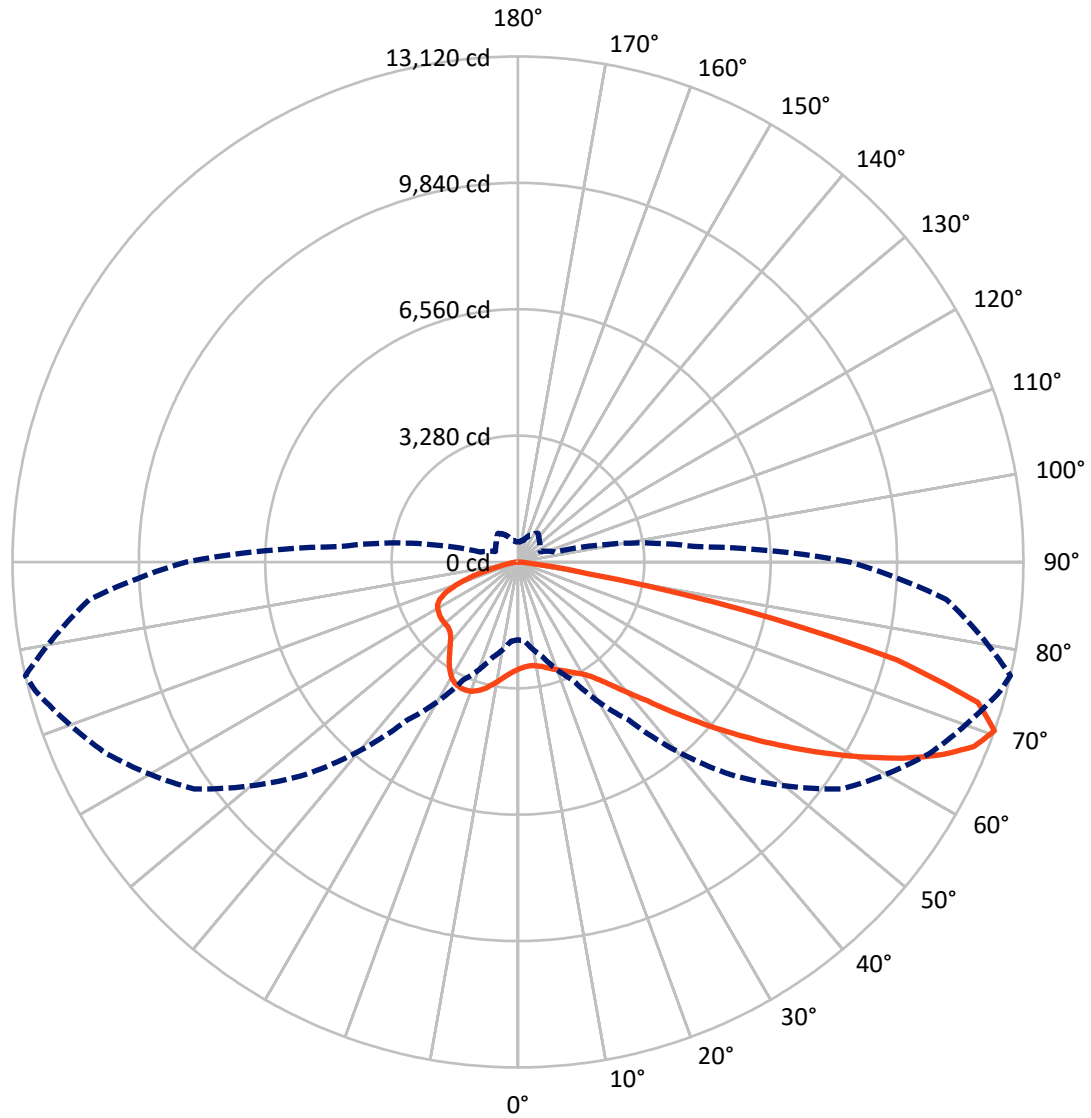
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P953668
CATALOG NUMBER: GALN-SB7A-927-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P953668

CATALOG NUMBER: GALN-SB7A-927-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.5	0.0	4365.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15569.5	0.0	15569.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	19935.0	0.0	19935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.3
10°-20°	765.5	3.8
20°-30°	1309.1	6.6
30°-40°	2105.2	10.6
40°-50°	3286.8	16.5
50°-60°	4390.4	22.0
60°-70°	4679.5	23.5
70°-80°	2880.7	14.5
80°-90°	252.4	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°	19935.0	100.0
0°-180°	19935.0	100.0



REPORT NUMBER: P953668

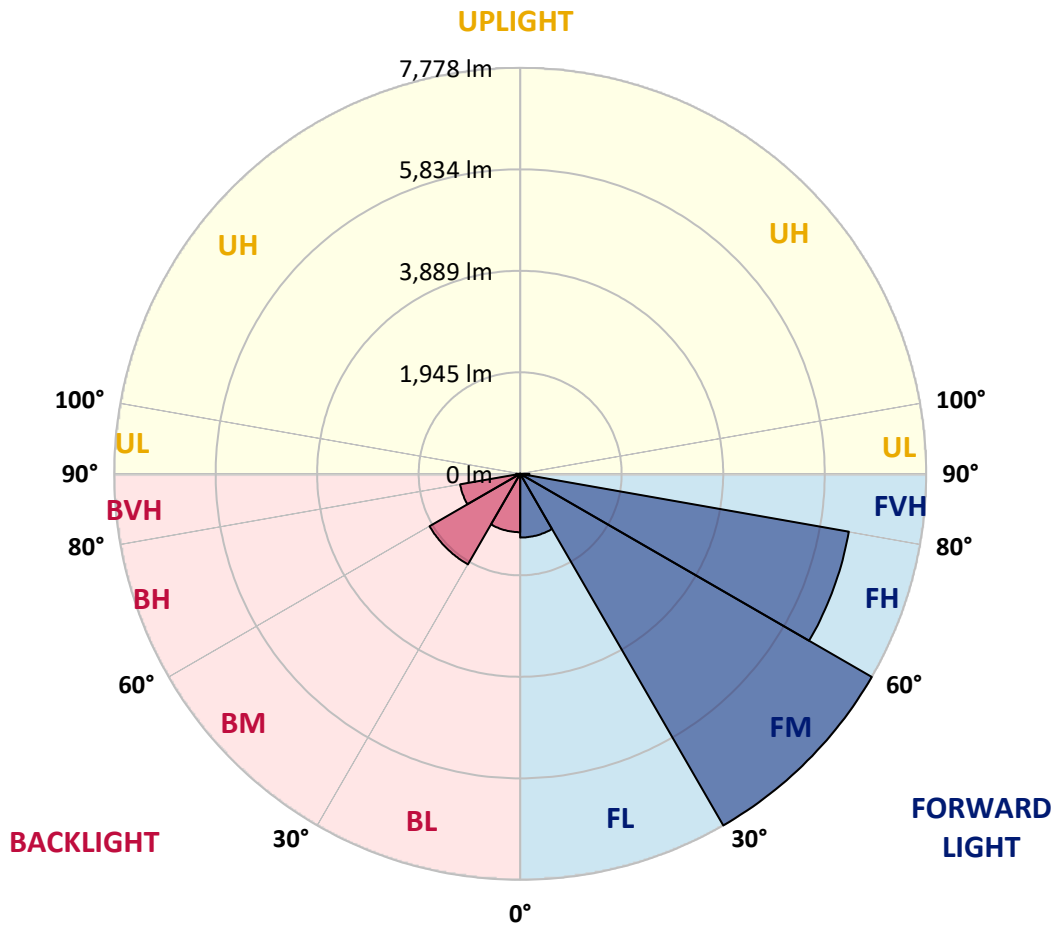
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.3	6.1			
FM (30°-60°)	7778.2	39.0			
FH (60°-80°)	6393.5	32.1			G3/7500
FVH (80°-90°)	176.5	0.9			G2/225
BL (0°-30°)	1118.6	5.6	B3/2500		
BM (30°-60°)	2004.3	10.1	B2/2500		
BH (60°-80°)	1166.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	75.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P953668
 CATALOG NUMBER: GALN-SB7A-927-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
2.5°	2563.6	2562.6	2575.9	2580.0	2604.5	2621.8	2654.5	2689.2	2734.1	2739.3
5°	2415.6	2415.6	2430.9	2447.3	2478.9	2513.6	2563.6	2623.9	2701.5	2713.7
7.5°	2290.0	2298.2	2311.5	2343.1	2379.9	2429.9	2506.5	2592.2	2694.3	2713.7
10°	2189.0	2198.1	2214.5	2240.0	2295.1	2364.6	2464.6	2574.9	2711.7	2742.3
12.5°	2157.3	2166.5	2175.7	2195.1	2246.1	2327.8	2447.3	2583.0	2753.5	2784.2
15°	2230.8	2242.0	2234.9	2229.8	2256.3	2330.9	2455.4	2612.7	2805.6	2849.5
17.5°	2400.3	2404.4	2388.0	2340.1	2336.0	2375.8	2494.2	2653.5	2871.0	2918.9
20°	2673.9	2666.8	2633.1	2538.1	2484.0	2475.8	2560.6	2714.8	2938.3	2989.4
22.5°	3045.5	3037.4	2970.0	2819.9	2699.4	2619.8	2656.6	2794.4	3013.9	3071.1
25°	3509.1	3497.8	3398.8	3194.6	3007.8	2810.7	2787.2	2899.5	3106.8	3159.9
27.5°	4050.2	4041.0	3933.8	3664.3	3394.7	3072.1	2949.6	3023.1	3203.8	3264.0
30°	4632.1	4658.7	4468.8	4178.8	3837.8	3413.1	3168.1	3175.2	3329.4	3383.5
32.5°	5316.2	5362.1	5133.4	4765.9	4300.3	3783.7	3443.7	3387.6	3512.1	3557.0
35°	5994.1	6046.2	5856.3	5449.9	4913.9	4220.7	3731.6	3631.6	3755.1	3804.1
37.5°	6580.1	6649.6	6551.5	6198.3	5570.4	4747.5	4107.4	3918.5	4054.3	4115.5
40°	7042.6	7148.8	7141.7	6921.1	6344.3	5386.6	4584.1	4272.7	4425.9	4492.3
42.5°	7418.3	7510.2	7589.9	7578.6	7151.9	6112.5	5144.7	4733.2	4849.6	4926.2
45°	7677.7	7775.7	7947.2	8132.0	7928.8	6889.5	5786.8	5279.4	5385.6	5501.0
47.5°	7909.4	8020.7	8243.3	8536.3	8588.4	7669.5	6490.3	5915.5	6012.5	6131.9
50°	7929.9	8025.8	8370.9	8786.4	9057.0	8418.9	7245.8	6629.1	6720.0	6847.6
52.5°	7436.7	7587.8	8190.2	8779.3	9272.4	9045.8	7996.2	7371.4	7473.5	7626.6
55°	5772.5	5994.1	7660.3	8505.7	9195.9	9451.1	8709.9	8160.6	8291.3	8451.6
57.5°	4972.1	5069.1	6080.9	8007.4	8846.7	9556.3	9312.2	8958.0	9168.3	9343.9
60°	4468.8	4549.4	5147.7	7232.5	8387.2	9389.8	9777.8	9701.2	10064.7	10274.0
62.5°	3929.7	4006.3	4550.5	6039.0	7799.2	9113.2	10071.8	10387.3	10983.6	11212.3
65°	3394.7	3460.1	3981.8	5074.2	7051.8	8836.5	10224.0	10980.5	11834.0	12070.9
67.5°	2798.5	2852.6	3345.7	4280.9	6143.2	8457.7	10299.5	11447.1	12574.2	12777.4
70°	2019.5	2061.3	2570.8	3385.5	5002.7	7806.3	10268.9	11777.9	12958.1	13120.4
72.5°	954.6	992.4	1590.7	2198.1	3533.6	6538.3	9649.2	11515.5	12568.1	12487.4
75°	509.5	542.1	913.8	1205.8	1866.3	4482.0	7896.2	9919.7	10553.7	10161.7
77.5°	345.1	370.6	565.6	723.9	852.5	2127.7	5075.2	6868.0	6607.7	5960.4
80°	273.6	300.2	463.5	490.1	412.5	768.8	2097.1	3179.3	2283.9	1826.5
82.5°	210.3	239.9	390.0	355.3	224.6	315.5	610.5	1005.7	585.0	445.1
85°	128.6	160.3	306.3	226.7	126.6	144.0	207.3	279.7	178.7	149.1
87.5°	65.3	91.9	155.2	82.7	57.2	33.7	55.1	55.1	47.0	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953668
 CATALOG NUMBER: GALN-SB7A-927-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2781.1	0°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
2766.8	2.5°	2791.3	2811.7	2846.5	2879.1	2904.7	2929.2	2953.7	2966.9	2971.0	2987.3
2782.1	5°	2824.0	2861.8	2929.2	2992.5	3032.3	3056.8	3074.1	3084.3	3086.4	3091.5
2824.0	7.5°	2884.2	2944.5	3038.4	3101.7	3131.3	3129.3	3122.1	3096.6	3086.4	3077.2
2885.3	10°	2969.0	3048.6	3164.0	3207.9	3189.5	3140.5	3077.2	3002.7	2968.0	2934.3
2969.0	12.5°	3074.1	3175.2	3288.5	3286.5	3195.6	3070.0	2923.0	2808.7	2736.2	2684.1
3072.1	15°	3201.8	3318.1	3404.9	3335.5	3136.4	2910.8	2695.4	2546.3	2481.0	2423.8
3176.2	17.5°	3333.5	3458.0	3497.8	3320.2	2987.3	2674.9	2430.9	2313.5	2249.2	2218.6
3288.5	20°	3462.1	3585.6	3553.0	3232.4	2760.7	2407.4	2190.0	2125.7	2112.4	2119.5
3397.8	22.5°	3597.9	3708.2	3564.2	3062.9	2471.8	2133.8	2014.4	2016.4	2046.0	2067.5
3512.1	25°	3736.7	3811.3	3534.6	2817.9	2161.4	1932.7	1903.1	1935.8	1993.9	2035.8
3640.8	27.5°	3870.5	3903.2	3470.3	2514.6	1894.9	1788.7	1793.8	1861.2	1949.0	2007.2
3797.0	30°	4021.6	3984.8	3346.7	2173.6	1710.1	1665.2	1708.1	1786.7	1874.5	1926.6
3994.0	32.5°	4192.1	4055.3	3150.7	1858.2	1579.4	1566.2	1636.6	1687.7	1726.5	1741.8
4255.4	35°	4404.5	4154.3	2899.5	1636.6	1462.0	1493.7	1561.1	1535.5	1520.2	1512.1
4606.6	37.5°	4680.1	4288.1	2605.5	1492.7	1367.1	1441.6	1469.2	1389.5	1329.3	1299.7
5032.3	40°	5011.9	4484.1	2322.7	1381.4	1306.8	1396.7	1348.7	1252.7	1176.2	1134.3
5511.2	42.5°	5380.5	4689.3	2084.8	1297.6	1273.1	1359.9	1259.9	1145.5	1022.0	1008.7
6081.9	45°	5767.4	4900.6	1922.5	1233.3	1256.8	1328.3	1208.8	1024.0	936.2	990.3
6654.7	47.5°	6154.4	5094.6	1824.5	1185.3	1248.6	1292.5	1163.9	956.6	894.4	973.0
7268.3	50°	6585.2	5268.2	1780.6	1150.6	1239.5	1278.3	1096.5	939.3	850.5	902.5
7903.3	52.5°	7013.0	5403.0	1747.9	1115.9	1226.2	1267.0	1063.8	918.9	797.4	800.4
8542.4	55°	7439.8	5490.8	1712.2	1070.0	1196.6	1242.5	1060.8	896.4	757.6	743.3
9218.3	57.5°	7895.1	5540.8	1668.3	1018.9	1145.5	1180.2	1057.7	879.1	745.3	721.8
9909.5	60°	8358.7	5614.3	1611.1	956.6	1077.1	1105.7	1050.6	872.9	738.2	698.3
10560.9	62.5°	8774.2	5639.8	1542.7	897.4	989.3	1032.2	1035.3	867.8	718.8	650.4
11102.0	65°	9046.8	5529.6	1423.2	830.0	894.4	956.6	1005.7	850.5	684.0	615.6
11369.5	67.5°	9035.6	5215.1	1236.4	743.3	802.5	872.9	962.8	820.9	642.2	572.8
11167.3	70°	8614.9	4594.4	999.5	642.2	701.4	783.1	907.6	777.0	592.2	525.8
9929.9	72.5°	7388.7	3595.8	725.9	523.8	584.0	690.2	836.2	723.9	541.1	483.9
7338.7	75°	5278.4	2275.7	492.1	402.3	454.3	585.0	747.3	661.6	494.1	486.0
3675.5	77.5°	2696.4	1087.3	325.7	294.0	316.5	461.5	627.9	591.1	501.3	401.2
1045.5	80°	877.0	401.2	205.2	200.1	210.3	307.3	486.0	485.0	379.8	272.6
253.2	82.5°	279.7	172.5	133.7	128.6	123.5	193.0	339.0	383.9	256.3	172.5
90.9	85°	111.3	103.1	78.6	72.5	52.1	90.9	177.6	255.2	190.9	124.6
23.5	87.5°	40.8	40.8	21.4	15.3	11.2	30.6	48.0	76.6	109.2	64.3
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>
2781.1
2996.5
3099.7
3079.2
2924.0
2671.9
2417.7
2227.8
2116.5
2072.6
2047.0
2021.5
1938.8
1749.9
1520.2
1306.8
1137.4
1022.0
1018.9
1009.7
941.3
821.9
753.5
724.9
701.4
650.4
615.6
575.8
531.9
480.9
458.4
357.3
240.9
171.5
127.6
63.3
0.0

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