

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: P948565

Luminaire Tested: **GALN-SB3C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948565
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-SB3C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20059 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

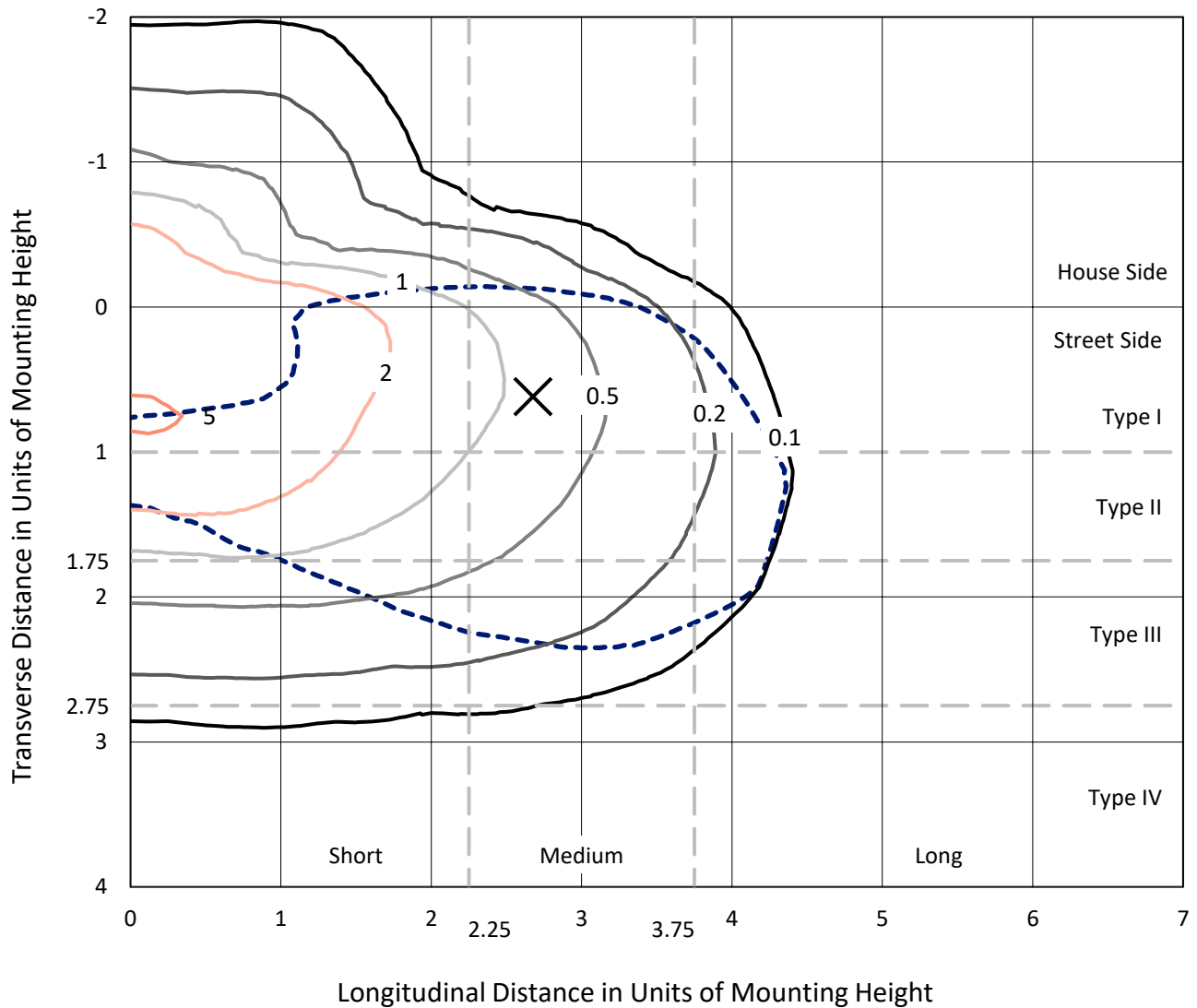
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

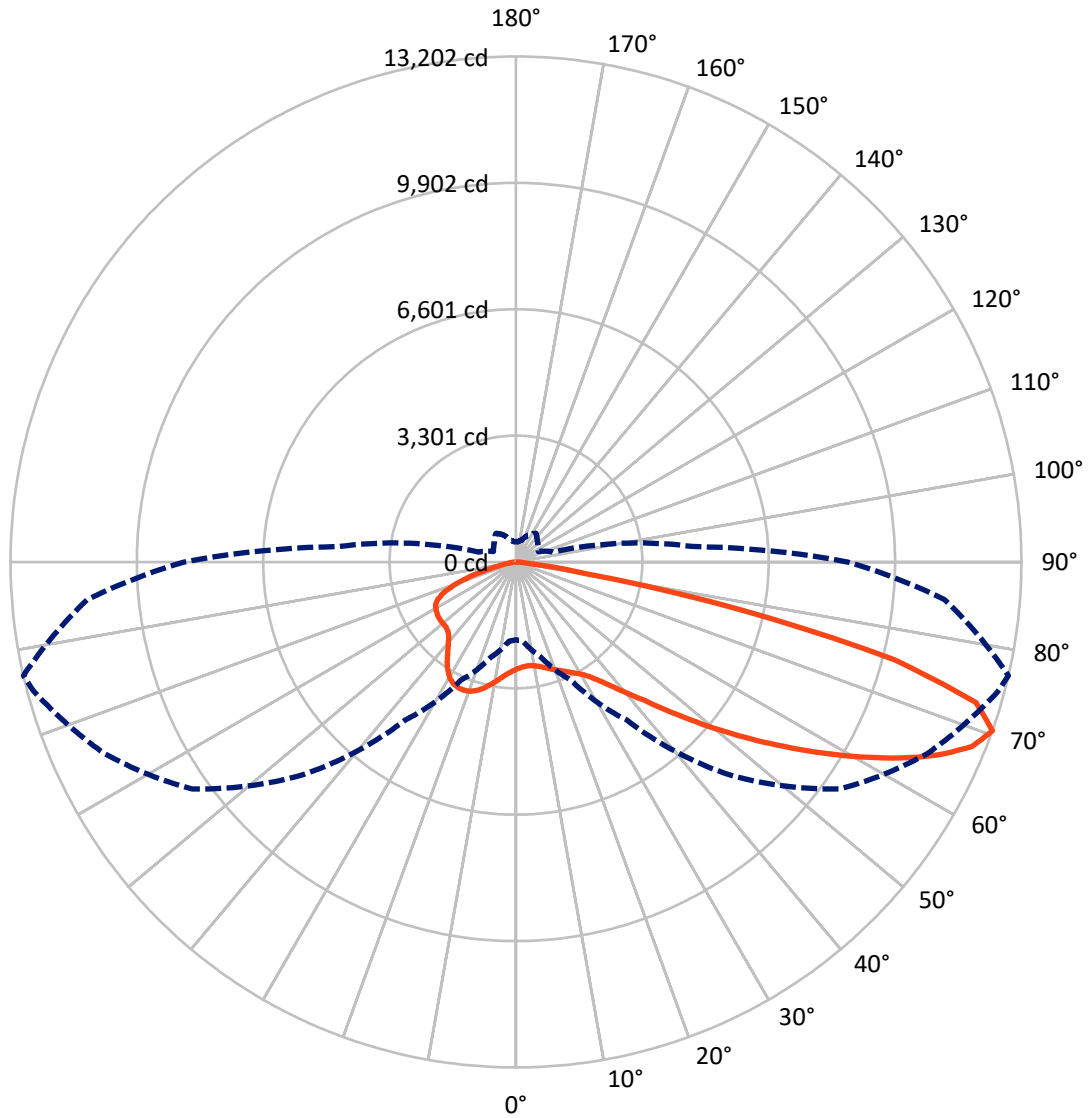
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4392.6	0.0	4392.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15666.4	0.0	15666.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	20059.0	0.0	20059.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.9	1.3
10°-20°	770.3	3.8
20°-30°	1317.3	6.6
30°-40°	2118.3	10.6
40°-50°	3307.3	16.5
50°-60°	4417.7	22.0
60°-70°	4708.6	23.5
70°-80°	2898.6	14.5
80°-90°	254.0	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°	20059.0	100.0
0°-180°	20059.0	100.0



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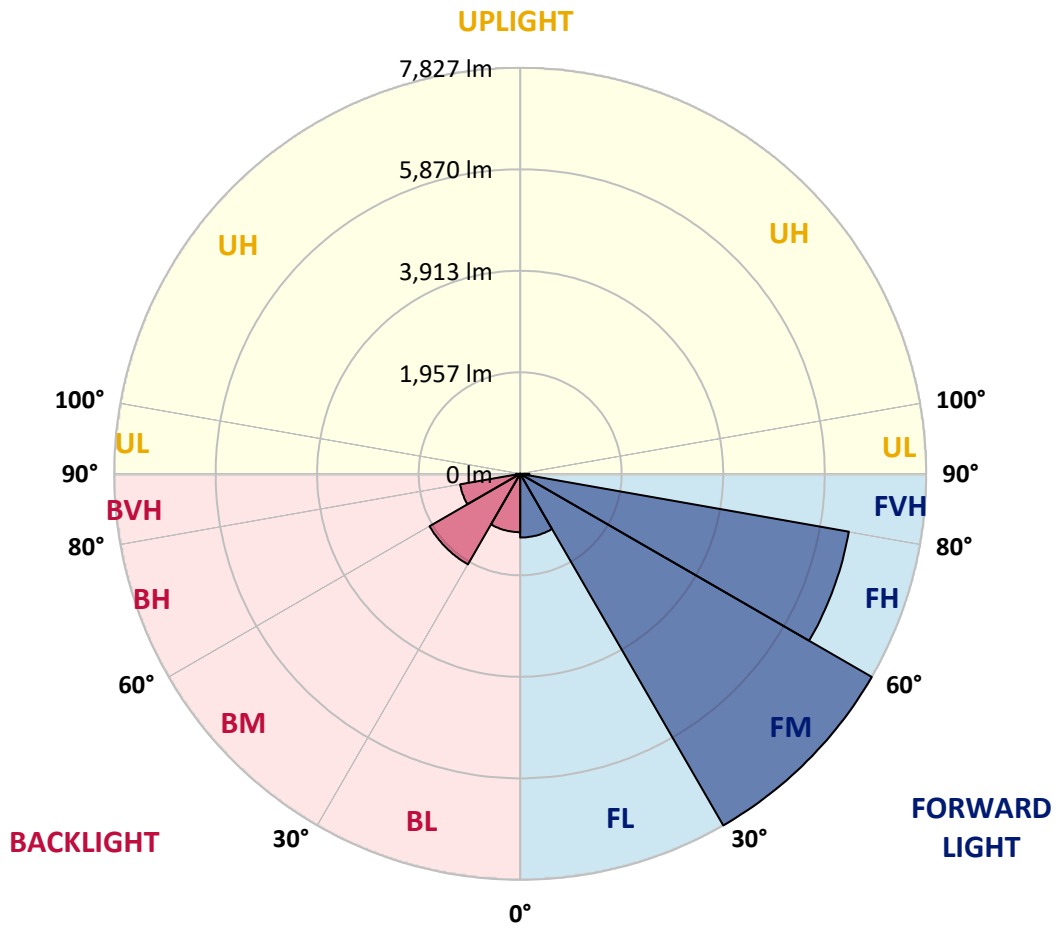
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.9	6.1			
FM (30°-60°)	7826.6	39.0			
FH (60°-80°)	6433.3	32.1			G3/7500
FVH (80°-90°)	177.6	0.9			G2/225
BL (0°-30°)	1125.5	5.6	B3/2500		
BM (30°-60°)	2016.7	10.1	B2/2500		
BH (60°-80°)	1174.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	76.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4
2.5°	2579.6	2578.6	2591.9	2596.0	2620.7	2638.2	2671.0	2706.0	2751.2	2756.3
5°	2430.6	2430.6	2446.0	2462.5	2494.3	2529.3	2579.6	2640.2	2718.3	2730.6
7.5°	2304.3	2312.5	2325.8	2357.7	2394.7	2445.0	2522.1	2608.4	2711.1	2730.6
10°	2202.6	2211.8	2228.3	2253.9	2309.4	2379.3	2479.9	2590.9	2728.6	2759.4
12.5°	2170.7	2180.0	2189.2	2208.7	2260.1	2342.3	2462.5	2599.1	2770.7	2801.5
15°	2244.7	2256.0	2248.8	2243.7	2270.4	2345.4	2470.7	2628.9	2823.1	2867.2
17.5°	2415.2	2419.3	2402.9	2354.6	2350.5	2390.6	2509.7	2670.0	2888.8	2937.1
20°	2690.5	2683.4	2649.5	2553.9	2499.5	2491.2	2576.5	2731.6	2956.6	3008.0
22.5°	3064.5	3056.3	2988.5	2837.5	2716.2	2636.1	2673.1	2811.8	3032.6	3090.2
25°	3530.9	3519.6	3419.9	3214.5	3026.5	2828.2	2804.6	2917.6	3126.1	3179.5
27.5°	4075.4	4066.1	3958.3	3687.0	3415.8	3091.2	2967.9	3041.9	3223.7	3284.3
30°	4660.9	4687.7	4496.6	4204.8	3861.7	3434.3	3187.8	3195.0	3350.1	3404.5
32.5°	5349.2	5395.5	5165.4	4795.5	4327.1	3807.2	3465.1	3408.6	3534.0	3579.2
35°	6031.4	6083.8	5892.7	5483.8	4944.5	4246.9	3754.8	3654.2	3778.5	3827.8
37.5°	6621.1	6690.9	6592.3	6236.8	5605.0	4777.0	4132.9	3942.8	4079.5	4141.1
40°	7086.4	7193.3	7186.1	6964.2	6383.8	5420.1	4612.7	4299.3	4453.4	4520.2
42.5°	7464.5	7556.9	7637.1	7625.8	7196.4	6150.6	5176.7	4762.6	4879.8	4956.8
45°	7725.4	7824.1	7996.6	8182.6	7978.1	6932.3	5822.8	5312.3	5419.1	5535.2
47.5°	7958.6	8070.6	8294.6	8589.4	8641.8	7717.2	6530.7	5952.3	6049.9	6170.1
50°	7979.2	8075.7	8423.0	8841.1	9113.3	8471.3	7290.9	6670.4	6761.8	6890.2
52.5°	7483.0	7635.0	8241.1	8833.9	9330.1	9102.0	8046.0	7417.2	7520.0	7674.1
55°	5808.5	6031.4	7708.0	8558.6	9253.1	9509.9	8764.0	8211.4	8342.8	8504.1
57.5°	5003.0	5100.6	6118.7	8057.3	8901.7	9615.7	9370.2	9013.7	9225.3	9402.0
60°	4496.6	4577.7	5179.7	7277.5	8439.4	9448.2	9838.6	9761.6	10127.3	10337.9
62.5°	3954.1	4031.2	4578.8	6076.6	7847.7	9169.8	10134.5	10451.9	11051.9	11282.0
65°	3415.8	3481.6	4006.5	5105.8	7095.7	8891.4	10287.6	11048.8	11907.6	12146.0
67.5°	2815.9	2870.3	3366.5	4307.5	6181.4	8510.3	10363.6	11518.3	12652.4	12856.9
70°	2032.0	2074.2	2586.8	3406.6	5033.9	7854.9	10332.8	11851.1	13038.7	13202.1
72.5°	960.5	998.6	1600.6	2211.8	3555.5	6578.9	9709.2	11587.1	12646.3	12565.1
75°	512.6	545.5	919.4	1213.3	1877.9	4509.9	7945.3	9981.4	10619.4	10224.9
77.5°	347.2	372.9	569.1	728.4	857.8	2140.9	5106.8	6910.8	6648.8	5997.5
80°	275.3	302.0	466.4	493.1	415.0	773.6	2110.1	3199.1	2298.1	1837.9
82.5°	211.6	241.4	392.4	357.5	226.0	317.4	614.3	1011.9	588.7	447.9
85°	129.4	161.3	308.2	228.1	127.4	144.9	208.5	281.5	179.8	150.0
87.5°	65.7	92.5	156.2	83.2	57.5	33.9	55.5	55.5	47.3	41.1
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°
2798.4	0°	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4	2798.4
2784.0	2.5°	2808.7	2829.2	2864.2	2897.0	2922.7	2947.4	2972.0	2985.4	2989.5	3005.9
2799.4	5°	2841.6	2879.6	2947.4	3011.1	3051.1	3075.8	3093.3	3103.5	3105.6	3110.7
2841.6	7.5°	2902.2	2962.8	3057.3	3121.0	3150.8	3148.7	3141.5	3115.9	3105.6	3096.3
2903.2	10°	2987.4	3067.6	3183.7	3227.8	3209.3	3160.0	3096.3	3021.3	2986.4	2952.5
2987.4	12.5°	3093.3	3195.0	3309.0	3306.9	3215.5	3089.1	2941.2	2826.2	2753.2	2700.8
3091.2	15°	3221.7	3338.8	3426.1	3356.2	3155.9	2928.9	2712.1	2562.1	2496.4	2438.9
3196.0	17.5°	3354.2	3479.5	3519.6	3340.8	3005.9	2691.6	2446.0	2327.9	2263.2	2232.4
3309.0	20°	3483.6	3607.9	3575.1	3252.5	2777.9	2422.4	2203.6	2138.9	2125.5	2132.7
3418.9	22.5°	3620.3	3731.2	3586.4	3082.0	2487.1	2147.1	2026.9	2029.0	2058.7	2080.3
3534.0	25°	3760.0	3835.0	3556.6	2835.4	2174.8	1944.7	1914.9	1947.8	2006.4	2048.5
3663.4	27.5°	3894.6	3927.4	3491.9	2530.3	1906.7	1799.9	1805.0	1872.8	1961.1	2019.7
3820.6	30°	4046.6	4009.6	3367.5	2187.2	1720.8	1675.6	1718.7	1797.8	1886.2	1938.5
4018.9	32.5°	4218.2	4080.5	3170.3	1869.7	1589.3	1575.9	1646.8	1698.2	1737.2	1752.6
4281.9	35°	4431.8	4180.2	2917.6	1646.8	1471.1	1503.0	1570.8	1545.1	1529.7	1521.5
4635.3	37.5°	4709.2	4314.7	2621.7	1501.9	1375.6	1450.6	1478.3	1398.2	1337.6	1307.8
5063.6	40°	5043.1	4512.0	2337.1	1390.0	1315.0	1405.4	1357.1	1260.5	1183.5	1141.3
5545.5	42.5°	5414.0	4718.5	2097.8	1305.7	1281.1	1368.4	1267.7	1152.7	1028.3	1015.0
6119.7	45°	5803.3	4931.1	1934.4	1241.0	1264.6	1336.5	1216.3	1030.4	942.1	996.5
6696.1	47.5°	6192.7	5126.3	1835.8	1192.7	1256.4	1300.6	1171.1	962.6	899.9	979.0
7313.5	50°	6626.2	5301.0	1791.6	1157.8	1247.2	1286.2	1103.3	945.1	855.8	908.1
7952.5	52.5°	7056.6	5436.6	1758.8	1122.9	1233.8	1274.9	1070.5	924.6	802.3	805.4
8595.6	55°	7486.1	5524.9	1722.8	1076.6	1204.0	1250.2	1067.4	902.0	762.3	747.9
9275.7	57.5°	7944.2	5575.3	1678.6	1025.3	1152.7	1187.6	1064.3	884.5	749.9	726.3
9971.1	60°	8410.7	5649.2	1621.1	962.6	1083.8	1112.6	1057.1	878.4	742.8	702.7
10626.6	62.5°	8828.8	5674.9	1552.3	903.0	995.5	1038.6	1041.7	873.2	723.2	654.4
11171.1	65°	9103.1	5564.0	1432.1	835.2	899.9	962.6	1011.9	855.8	688.3	619.5
11440.2	67.5°	9091.8	5247.5	1244.1	747.9	807.5	878.4	968.8	826.0	646.2	576.3
11236.8	70°	8668.5	4622.9	1005.7	646.2	705.8	788.0	913.3	781.8	595.8	529.1
9991.7	72.5°	7434.7	3618.2	730.4	527.0	587.6	694.5	841.4	728.4	544.5	486.9
7384.4	75°	5311.2	2289.9	495.2	404.8	457.2	588.7	752.0	665.7	497.2	489.0
3698.3	77.5°	2713.1	1094.1	327.7	295.9	318.5	464.3	631.8	594.8	504.4	403.7
1052.0	80°	882.5	403.7	206.5	201.4	211.6	309.2	489.0	488.0	382.2	274.3
254.8	82.5°	281.5	173.6	134.6	129.4	124.3	194.2	341.1	386.3	257.9	173.6
91.4	85°	112.0	103.8	79.1	72.9	52.4	91.4	178.8	256.8	192.1	125.3
23.6	87.5°	41.1	41.1	21.6	15.4	11.3	30.8	48.3	77.0	109.9	64.7
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>
2798.4
3015.2
3118.9
3098.4
2942.2
2688.5
2432.7
2241.6
2129.6
2085.5
2059.8
2034.1
1950.9
1760.8
1529.7
1315.0
1144.4
1028.3
1025.3
1016.0
947.2
827.0
758.2
729.4
705.8
654.4
619.5
579.4
535.2
483.9
461.3
359.6
242.4
172.6
128.4
63.7
0.0

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