

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: P947536

Luminaire Tested: **GALN-SB2D-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947536
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-SB2D-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19378 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

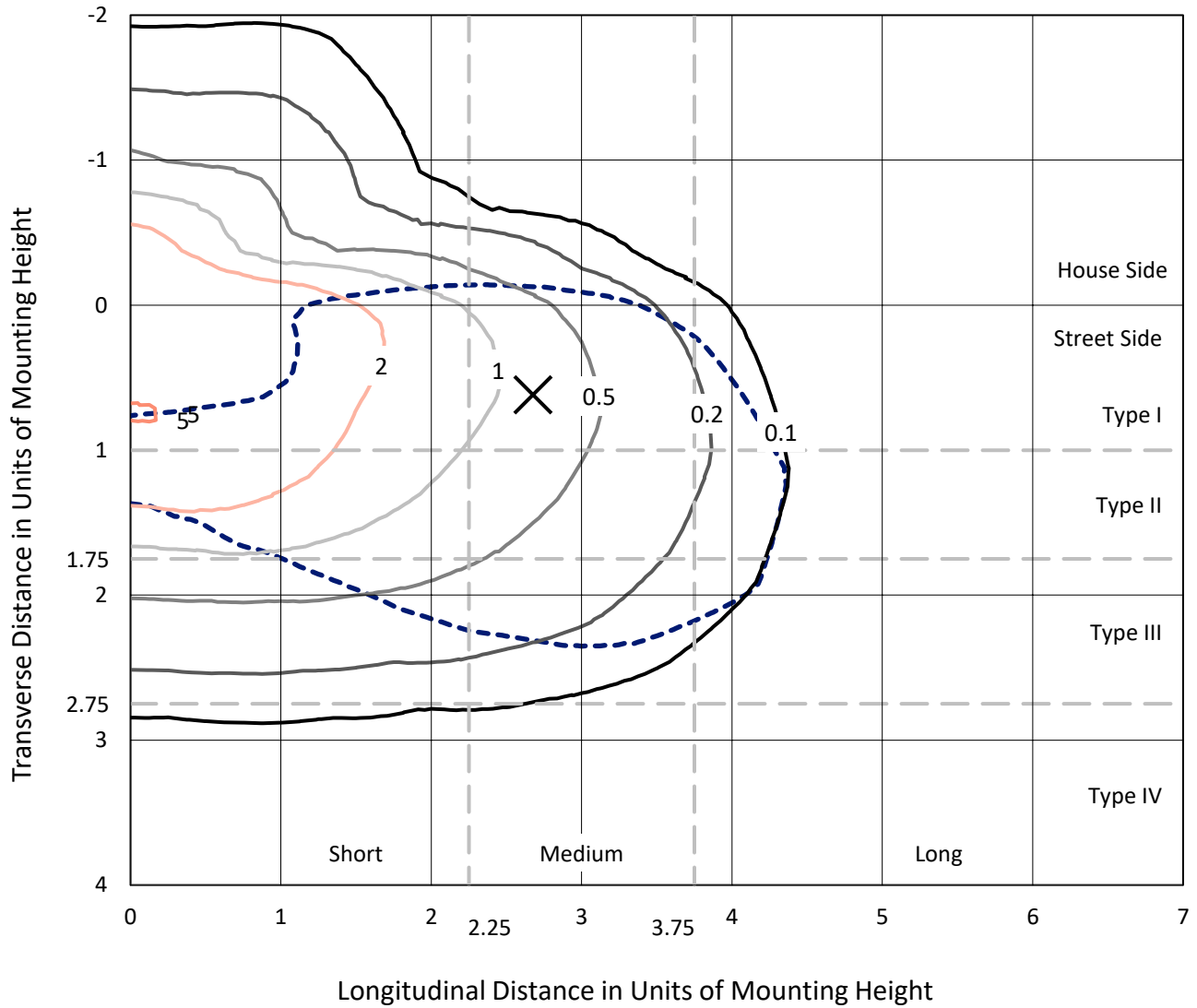
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

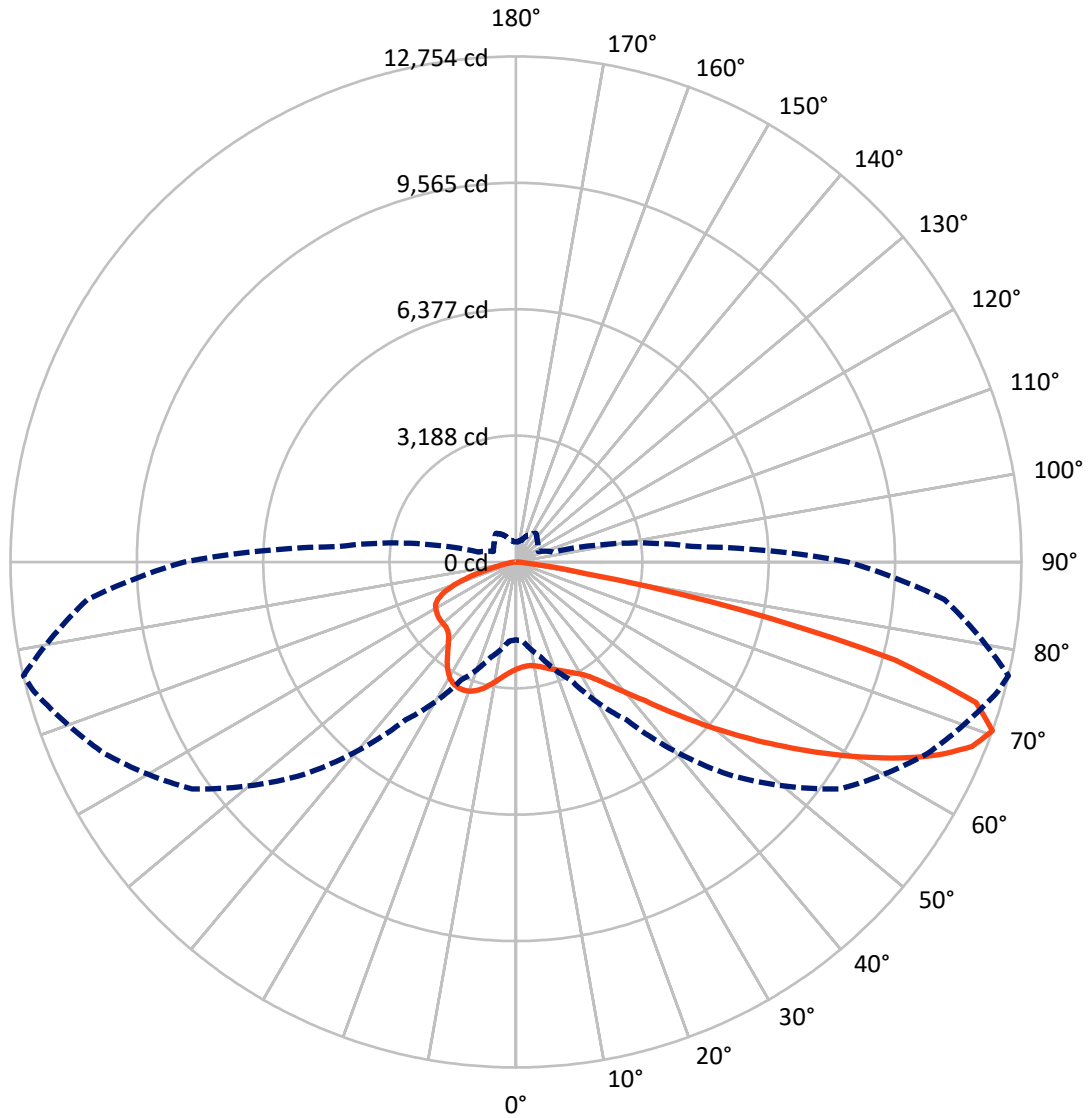
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4243.5	0.0	4243.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15134.5	0.0	15134.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	19378.0	0.0	19378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.3
10°-20°	744.1	3.8
20°-30°	1272.6	6.6
30°-40°	2046.4	10.6
40°-50°	3195.0	16.5
50°-60°	4267.7	22.0
60°-70°	4548.8	23.5
70°-80°	2800.2	14.5
80°-90°	245.4	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°	19378.0	100.0
0°-180°	19378.0	100.0

Coefficient of Utilization



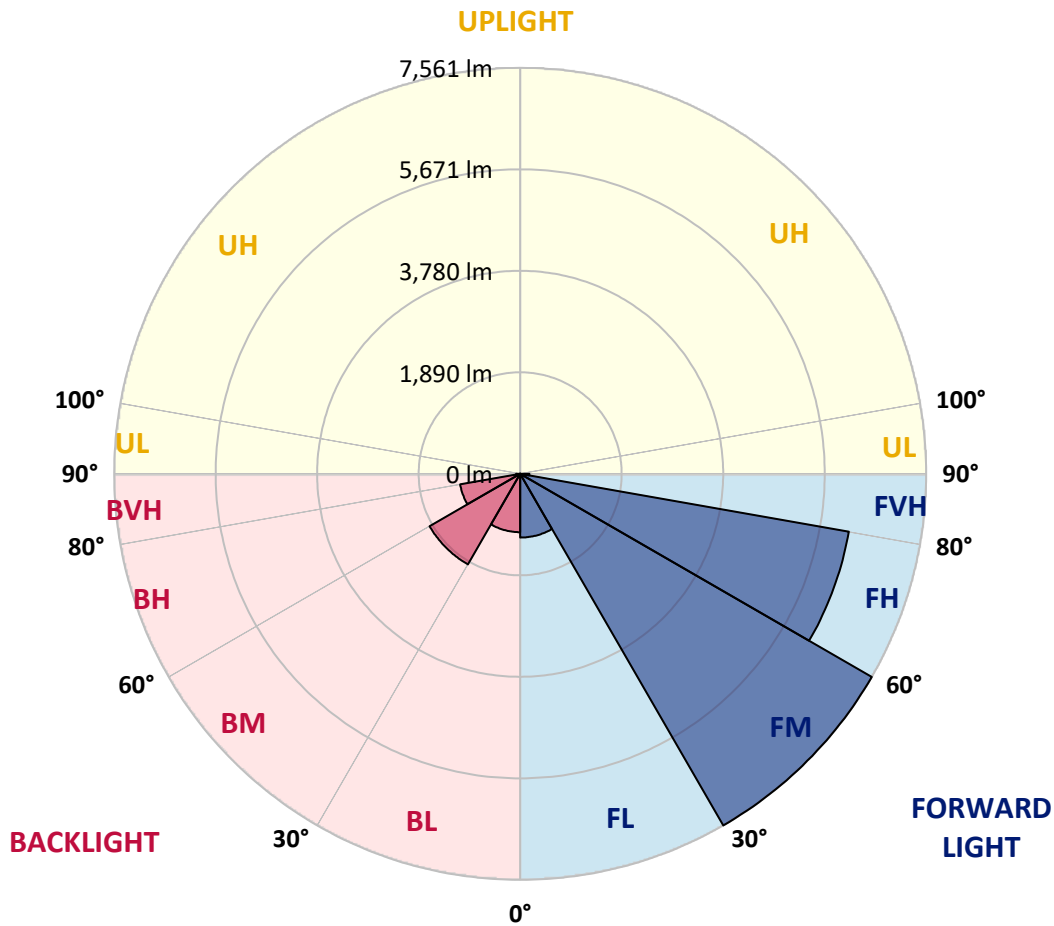
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.2	6.1			
FM (30°-60°)	7560.9	39.0			
FH (60°-80°)	6214.8	32.1			G3/7500
FVH (80°-90°)	171.6	0.9			G2/225
BL (0°-30°)	1087.3	5.6	B3/2500		
BM (30°-60°)	1948.3	10.1	B2/2500		
BH (60°-80°)	1134.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	73.8	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°	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4
2.5°	2492.0	2491.0	2503.9	2507.9	2531.7	2548.6	2580.3	2614.1	2657.8	2662.7
5°	2348.1	2348.1	2363.0	2378.9	2409.6	2443.4	2492.0	2550.6	2626.0	2637.9
7.5°	2226.0	2234.0	2246.9	2277.7	2313.4	2362.0	2436.4	2519.8	2619.1	2637.9
10°	2127.8	2136.7	2152.6	2177.4	2231.0	2298.5	2395.8	2502.9	2635.9	2665.7
12.5°	2097.0	2106.0	2114.9	2133.7	2183.4	2262.8	2378.9	2510.9	2676.6	2706.4
15°	2168.5	2179.4	2172.5	2167.5	2193.3	2265.7	2386.8	2539.7	2727.2	2769.9
17.5°	2333.2	2337.2	2321.3	2274.7	2270.7	2309.4	2424.5	2579.4	2790.7	2837.4
20°	2599.2	2592.3	2559.5	2467.2	2414.6	2406.7	2489.0	2638.9	2856.2	2905.9
22.5°	2960.4	2952.5	2887.0	2741.1	2624.0	2546.6	2582.3	2716.3	2929.7	2985.3
25°	3411.0	3400.1	3303.8	3105.3	2923.7	2732.2	2709.4	2818.5	3020.0	3071.6
27.5°	3937.0	3928.1	3823.9	3561.9	3299.9	2986.3	2867.2	2938.6	3114.3	3172.8
30°	4502.7	4528.5	4343.9	4062.1	3730.6	3317.7	3079.5	3086.5	3236.3	3288.9
32.5°	5167.6	5212.3	4990.0	4632.7	4180.2	3678.0	3347.5	3292.9	3414.0	3457.7
35°	5826.6	5877.2	5692.6	5297.6	4776.6	4102.7	3627.4	3530.1	3650.2	3697.8
37.5°	6396.3	6463.8	6368.5	6025.1	5414.8	4614.8	3992.6	3809.0	3941.0	4000.5
40°	6845.9	6949.1	6942.1	6727.8	6167.0	5236.1	4456.1	4153.4	4302.2	4366.7
42.5°	7211.1	7300.4	7377.8	7366.9	6952.0	5941.7	5000.9	4601.0	4714.1	4788.5
45°	7463.2	7558.4	7725.2	7904.8	7707.3	6697.0	5625.2	5131.9	5235.1	5347.3
47.5°	7688.4	7796.6	8013.0	8297.8	8348.4	7455.2	6308.9	5750.2	5844.5	5960.6
50°	7708.3	7801.6	8137.0	8540.9	8803.9	8183.7	7043.3	6443.9	6532.2	6656.3
52.5°	7228.9	7375.8	7961.4	8534.0	9013.3	8793.0	7772.8	7165.4	7264.7	7413.5
55°	5611.3	5826.6	7446.3	8268.0	8938.9	9187.0	8466.5	7932.6	8059.6	8215.4
57.5°	4833.2	4927.5	5911.0	7783.7	8599.5	9289.2	9052.0	8707.7	8912.1	9082.8
60°	4343.9	4422.3	5003.9	7030.4	8152.9	9127.5	9504.6	9430.2	9783.5	9986.9
62.5°	3819.9	3894.3	4423.3	5870.3	7581.3	8858.5	9790.4	10097.1	10676.7	10899.0
65°	3299.9	3363.4	3870.5	4932.4	6854.8	8589.6	9938.3	10673.7	11503.4	11733.6
67.5°	2720.3	2772.9	3252.2	4161.3	5971.5	8221.4	10011.7	11127.2	12222.9	12420.4
70°	1963.0	2003.7	2499.0	3290.9	4863.0	7588.2	9982.0	11448.8	12596.1	12753.9
72.5°	927.9	964.7	1546.2	2136.7	3434.8	6355.6	9379.6	11193.7	12216.9	12138.5
75°	495.2	527.0	888.2	1172.1	1814.2	4356.8	7675.5	9642.6	10258.9	9877.8
77.5°	335.4	360.3	549.8	703.6	828.7	2068.2	4933.4	6676.1	6423.1	5793.9
80°	266.0	291.8	450.6	476.4	400.9	747.3	2038.5	3090.5	2220.1	1775.5
82.5°	204.4	233.2	379.1	345.4	218.3	306.7	593.5	977.6	568.7	432.7
85°	125.0	155.8	297.7	220.3	123.1	139.9	201.5	271.9	173.7	144.9
87.5°	63.5	89.3	150.9	80.4	55.6	32.8	53.6	53.6	45.7	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947536
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2703.4	0°	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4
2689.5	2.5°	2713.3	2733.2	2766.9	2798.7	2823.5	2847.3	2871.1	2884.0	2888.0	2903.9
2704.4	5°	2745.1	2781.8	2847.3	2908.8	2947.5	2971.4	2988.2	2998.2	3000.1	3005.1
2745.1	7.5°	2803.6	2862.2	2953.5	3015.0	3043.8	3041.8	3034.9	3010.1	3000.1	2991.2
2804.6	10°	2886.0	2963.4	3075.6	3118.2	3100.4	3052.7	2991.2	2918.8	2885.0	2852.3
2886.0	12.5°	2988.2	3086.5	3196.7	3194.7	3106.3	2984.3	2841.4	2730.2	2659.7	2609.1
2986.3	15°	3112.3	3225.4	3309.8	3242.3	3048.8	2829.4	2620.0	2475.1	2411.6	2356.1
3087.5	17.5°	3240.3	3361.4	3400.1	3227.4	2903.9	2600.2	2363.0	2248.9	2186.3	2156.6
3196.7	20°	3365.4	3485.5	3453.7	3142.1	2683.6	2340.2	2128.8	2066.3	2053.4	2060.3
3302.8	22.5°	3497.4	3604.5	3464.6	2977.3	2402.7	2074.2	1958.1	1960.1	1988.9	2009.7
3414.0	25°	3632.3	3704.8	3435.8	2739.1	2101.0	1878.7	1849.9	1881.7	1938.2	1978.9
3539.0	27.5°	3762.3	3794.1	3373.3	2444.4	1842.0	1738.8	1743.7	1809.2	1894.6	1951.1
3690.9	30°	3909.2	3873.5	3253.2	2112.9	1662.3	1618.7	1660.4	1736.8	1822.1	1872.7
3882.4	32.5°	4075.0	3942.0	3062.7	1806.2	1535.3	1522.4	1590.9	1640.5	1678.2	1693.1
4136.5	35°	4281.4	4038.2	2818.5	1590.9	1421.2	1451.9	1517.4	1492.6	1477.7	1469.8
4477.9	37.5°	4549.3	4168.2	2532.7	1450.9	1328.9	1401.3	1428.1	1350.7	1292.2	1263.4
4891.7	40°	4871.9	4358.8	2257.8	1342.8	1270.3	1357.7	1311.0	1217.7	1143.3	1102.6
5357.2	42.5°	5230.2	4558.3	2026.6	1261.4	1237.6	1321.9	1224.7	1113.5	993.4	980.5
5912.0	45°	5606.3	4763.7	1868.8	1198.9	1221.7	1291.2	1175.0	995.4	910.1	962.7
6468.7	47.5°	5982.4	4952.3	1773.5	1152.2	1213.8	1256.4	1131.4	929.9	869.4	945.8
7065.2	50°	6401.2	5121.0	1730.8	1118.5	1204.8	1242.5	1065.9	913.0	826.7	877.3
7682.5	52.5°	6817.1	5252.0	1699.1	1084.7	1191.9	1231.6	1034.1	893.2	775.1	778.1
8303.7	55°	7231.9	5337.3	1664.3	1040.1	1163.1	1207.8	1031.1	871.4	736.4	722.5
8960.7	57.5°	7674.5	5386.0	1621.6	990.5	1113.5	1147.3	1028.2	854.5	724.5	701.7
9632.6	60°	8125.1	5457.4	1566.1	929.9	1047.0	1074.8	1021.2	848.5	717.5	678.8
10265.8	62.5°	8529.0	5482.2	1499.6	872.4	961.7	1003.4	1006.3	843.6	698.7	632.2
10791.8	65°	8794.0	5375.1	1383.5	806.9	869.4	929.9	977.6	826.7	664.9	598.4
11051.8	67.5°	8783.1	5069.4	1201.8	722.5	780.1	848.5	935.9	797.9	624.2	556.8
10855.3	70°	8374.2	4466.0	971.6	624.2	681.8	761.2	882.3	755.2	575.6	511.1
9652.5	72.5°	7182.3	3495.4	705.6	509.1	567.7	670.9	812.8	703.6	526.0	470.4
7133.7	75°	5130.9	2212.1	478.4	391.0	441.6	568.7	726.5	643.1	480.3	472.4
3572.8	77.5°	2621.0	1056.9	316.6	285.8	307.7	448.6	610.4	574.6	487.3	390.0
1016.3	80°	852.5	390.0	199.5	194.5	204.4	298.7	472.4	471.4	369.2	265.0
246.1	82.5°	271.9	167.7	130.0	125.0	120.1	187.6	329.5	373.2	249.1	167.7
88.3	85°	108.2	100.2	76.4	70.5	50.6	88.3	172.7	248.1	185.6	121.1
22.8	87.5°	39.7	39.7	20.8	14.9	10.9	29.8	46.6	74.4	106.2	62.5
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>
2703.4
2912.8
3013.0
2993.2
2842.3
2597.2
2350.1
2165.5
2057.3
2014.7
1989.8
1965.0
1884.6
1701.0
1477.7
1270.3
1105.6
993.4
990.5
981.5
915.0
798.9
732.4
704.6
681.8
632.2
598.4
559.7
517.1
467.4
445.6
347.4
234.2
166.7
124.1
61.5
0.0

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