

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: P941595

Luminaire Tested: **GALN-SB5A-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15619 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

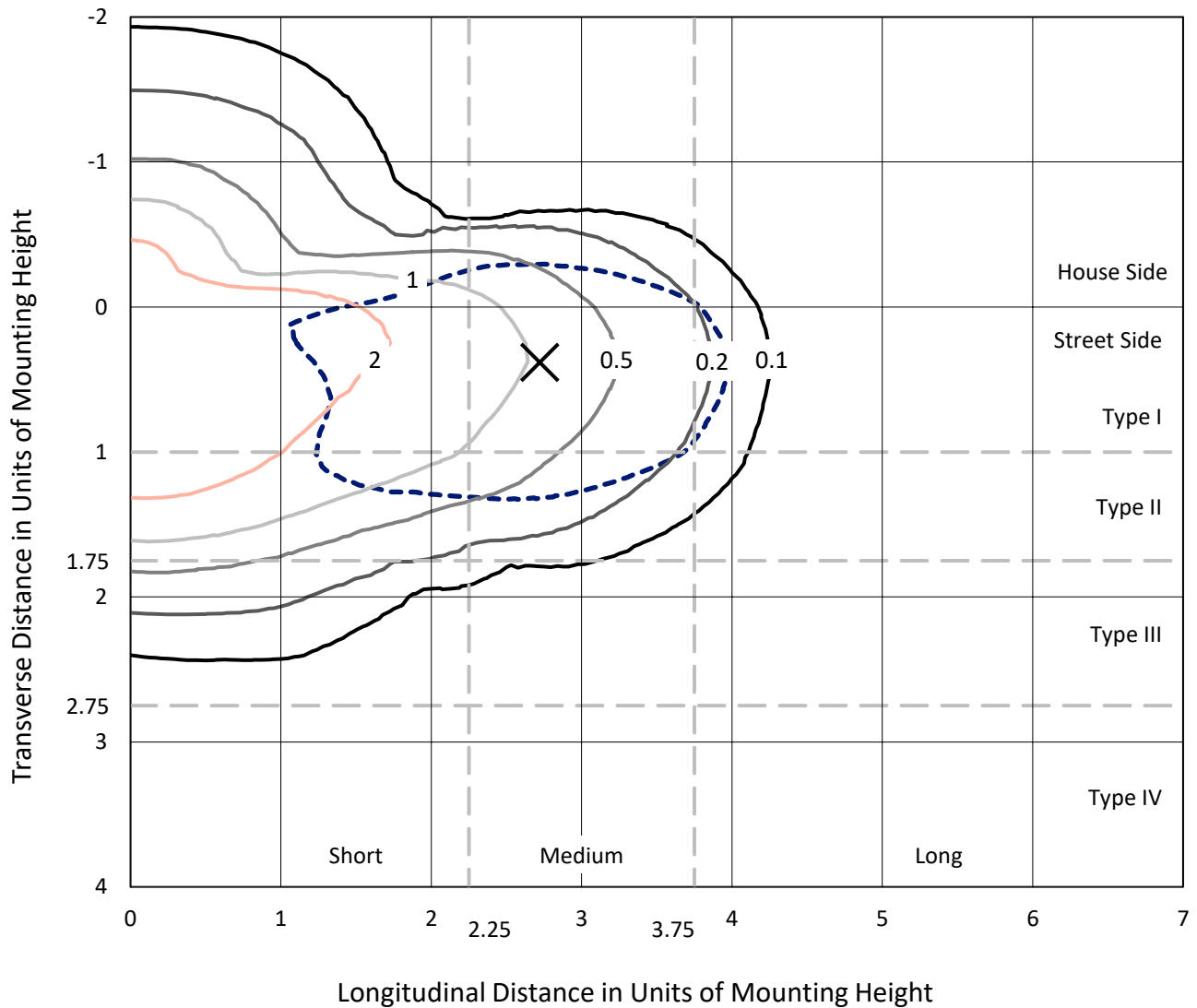
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

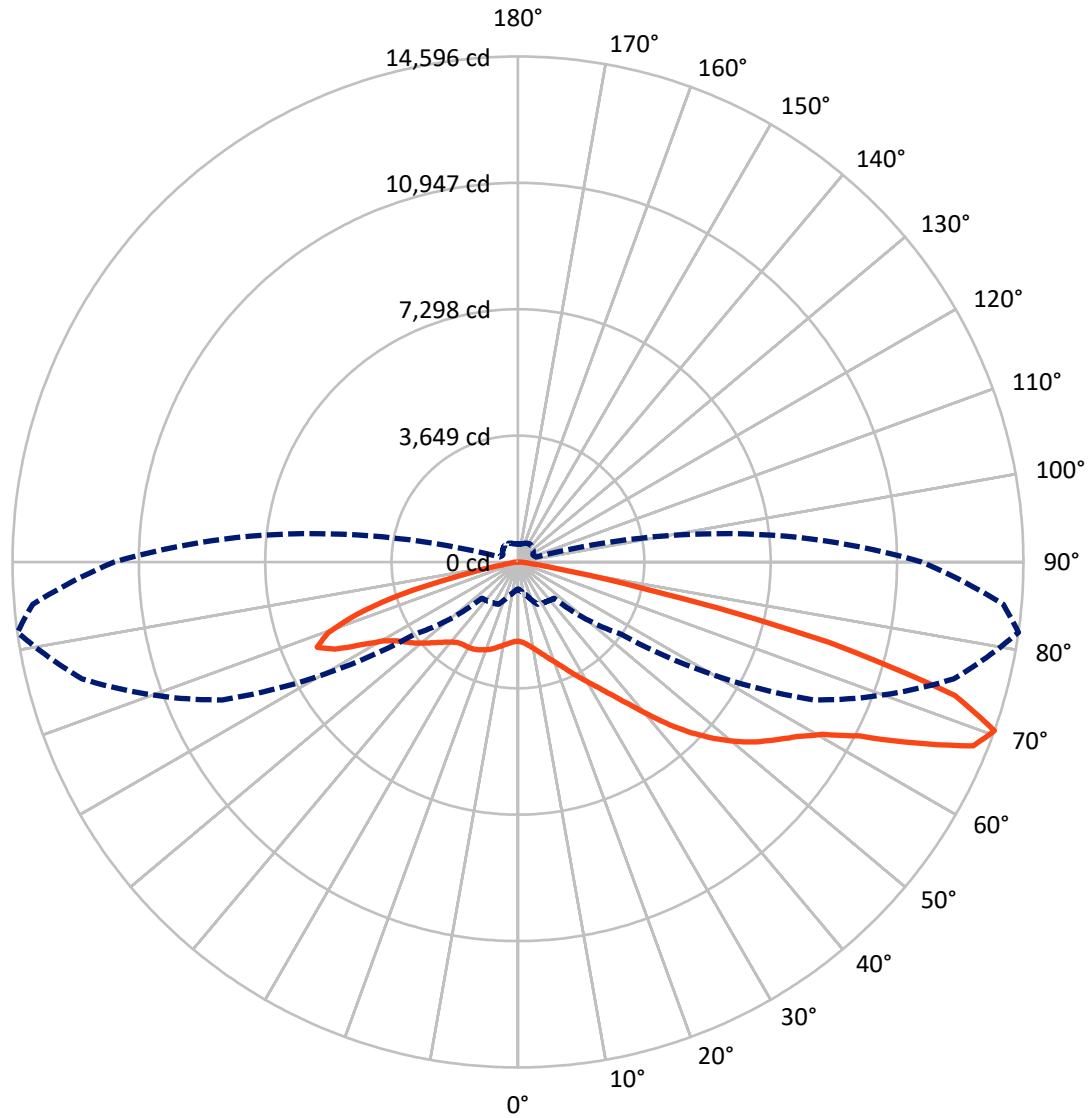
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3850.5	0.0	3850.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11768.5	0.0	11768.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	15619.0	0.0	15619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	1.4
10°-20°	621.2	4.0
20°-30°	1039.2	6.7
30°-40°	1623.5	10.4
40°-50°	2585.6	16.6
50°-60°	3598.1	23.0
60°-70°	3763.8	24.1
70°-80°	1967.2	12.6
80°-90°	204.3	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°	15619.0	100.0
0°-180°	15619.0	100.0

Coefficient of Utilization



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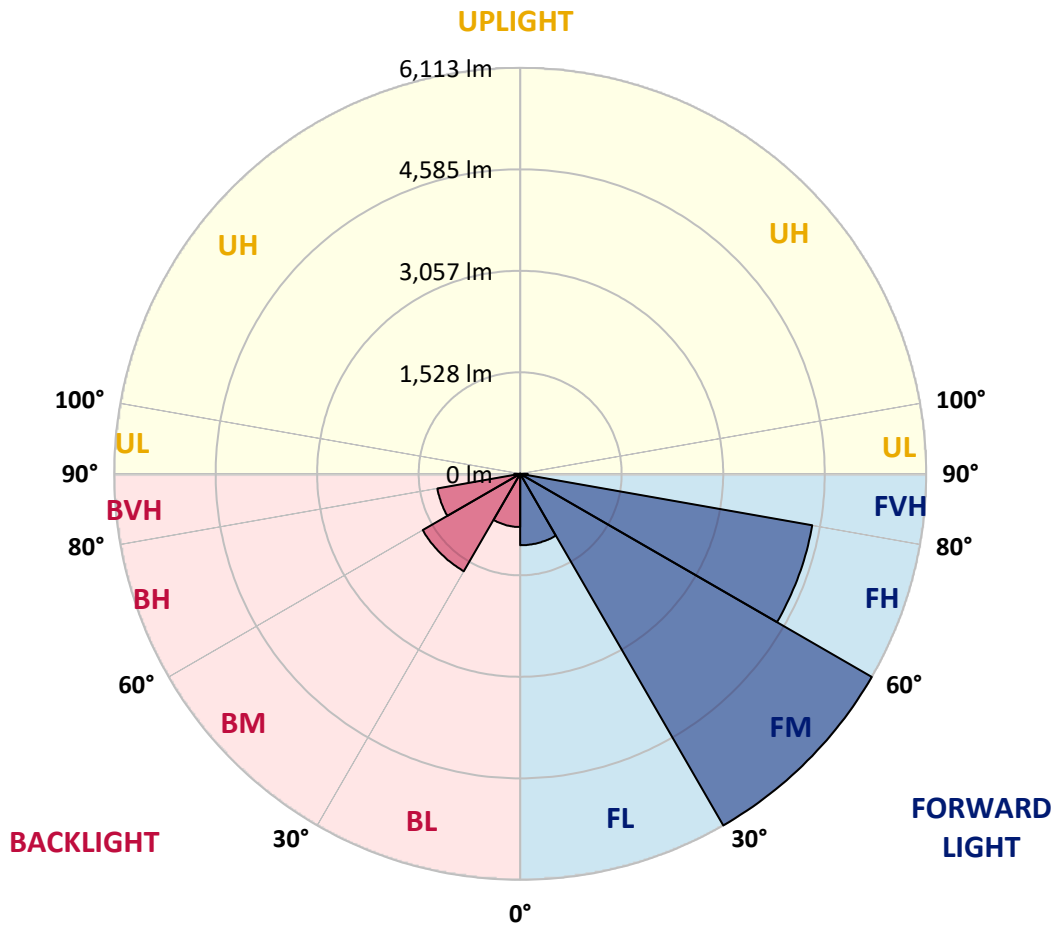
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.5	6.9			
FM (30°-60°)	6113.1	39.1			
FH (60°-80°)	4465.5	28.6			G2/5000
FVH (80°-90°)	114.4	0.7			G2/225
BL (0°-30°)	801.0	5.1	B2/1000		
BM (30°-60°)	1694.0	10.8	B2/2500		
BH (60°-80°)	1265.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	89.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9
2.5°	2344.6	2357.9	2353.8	2349.6	2349.6	2343.8	2343.0	2334.7	2328.1	2317.3
5°	2374.5	2388.6	2386.9	2390.2	2401.0	2403.5	2406.0	2401.0	2387.7	2374.5
7.5°	2348.0	2363.7	2368.7	2388.6	2421.7	2451.6	2473.9	2483.0	2470.6	2451.6
10°	2258.4	2275.9	2293.3	2340.5	2399.3	2469.8	2529.5	2565.1	2562.6	2544.4
12.5°	2076.9	2095.2	2132.5	2224.5	2332.2	2456.5	2567.6	2642.2	2667.9	2654.6
15°	1931.9	1947.7	1975.8	2070.3	2210.4	2399.3	2581.7	2726.7	2792.2	2784.7
17.5°	1927.8	1934.4	1951.8	1996.5	2104.3	2309.8	2566.8	2809.6	2934.7	2933.9
20°	2000.7	2003.2	2013.1	2022.2	2083.6	2241.9	2528.6	2878.4	3094.7	3094.7
22.5°	2101.8	2100.1	2110.1	2101.8	2131.6	2236.1	2504.6	2938.9	3272.9	3286.1
25°	2253.5	2245.2	2242.7	2223.6	2229.4	2289.9	2531.1	3007.7	3484.2	3511.6
27.5°	2455.7	2442.4	2433.3	2389.4	2374.5	2401.0	2612.3	3090.5	3719.6	3766.8
30°	2719.3	2695.2	2682.0	2605.7	2551.8	2556.0	2735.0	3200.8	3965.7	4042.0
32.5°	3078.9	3041.7	3006.0	2880.9	2782.2	2749.9	2893.3	3353.3	4232.6	4354.5
35°	3481.7	3451.9	3413.8	3220.7	3069.0	2994.4	3107.1	3566.3	4545.1	4738.2
37.5°	3869.6	3843.9	3862.2	3601.9	3406.3	3297.7	3387.3	3852.2	4930.5	5215.6
40°	4270.7	4250.9	4253.3	4004.7	3776.8	3655.0	3727.1	4211.1	5372.2	5783.3
42.5°	4706.7	4691.8	4642.0	4421.6	4165.5	4051.9	4118.2	4625.5	5846.3	6429.7
45°	5194.8	5185.7	5139.3	4886.5	4593.1	4465.5	4555.0	5083.0	6322.8	7038.1
47.5°	5616.7	5624.2	5618.4	5405.4	5101.2	4913.9	5020.8	5560.3	6766.2	7609.9
50°	5819.7	5858.7	5915.9	5849.6	5660.6	5470.0	5490.7	6021.1	7188.9	8146.2
52.5°	5713.7	5787.4	5943.2	6049.3	6122.3	6082.5	6026.9	6478.6	7586.7	8630.2
55°	5318.3	5421.9	5680.5	5936.6	6308.7	6598.0	6670.9	6985.9	7974.6	9056.2
57.5°	4598.1	4766.4	4998.4	5516.4	6143.0	6847.4	7421.8	7689.5	8385.7	9511.2
60°	3363.2	3588.7	3877.1	4647.8	5562.8	6714.0	8060.8	8770.2	8970.0	10100.4
62.5°	2152.4	2291.6	2556.8	3282.8	4334.6	6030.3	8256.4	10121.2	9960.4	11066.8
65°	1473.6	1563.1	1805.9	2213.7	2802.1	4488.7	7732.6	11133.9	11533.4	12598.4
67.5°	1070.8	1138.8	1346.0	1703.2	1825.8	2656.3	6000.4	11087.5	13062.5	14176.4
70°	780.7	828.8	1002.8	1346.0	1404.8	1477.7	3635.1	9425.0	13029.4	14595.8
72.5°	578.5	611.6	728.5	1044.3	1137.1	997.9	1799.3	6849.9	11196.1	13201.8
75°	418.5	443.4	529.6	799.0	910.0	760.0	897.6	4003.0	7809.7	9286.6
77.5°	319.9	339.0	395.3	585.1	728.5	570.2	556.9	1841.6	3703.0	3721.3
80°	256.9	269.4	300.0	411.9	558.6	426.8	363.0	743.4	1170.2	990.4
82.5°	189.0	209.7	253.6	289.2	399.5	294.2	221.3	375.4	445.1	382.9
85°	107.7	121.8	153.3	207.2	255.3	179.8	126.8	166.6	207.2	169.9
87.5°	38.1	49.7	53.9	81.2	111.1	74.6	48.9	48.1	68.0	50.6
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°
2289.9	0°	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9	2289.9
2314.8	2.5°	2306.5	2302.4	2285.8	2263.4	2240.2	2217.8	2210.4	2194.6	2183.9	2178.1
2368.7	5°	2352.9	2339.7	2300.7	2251.0	2198.8	2142.4	2102.6	2066.2	2039.6	2014.8
2442.4	7.5°	2419.2	2396.0	2328.9	2241.9	2149.0	2055.4	1985.8	1932.7	1897.1	1873.9
2528.6	10°	2496.3	2460.7	2357.9	2227.8	2084.4	1950.1	1868.1	1822.5	1800.1	1787.7
2627.3	12.5°	2585.0	2534.4	2387.7	2195.5	1985.8	1832.4	1776.1	1762.8	1763.7	1764.5
2751.6	15°	2694.4	2623.9	2411.8	2125.0	1857.3	1742.1	1732.2	1753.7	1776.1	1786.9
2892.5	17.5°	2817.9	2718.4	2415.9	2009.0	1731.3	1684.1	1715.6	1762.0	1796.0	1810.9
3049.9	20°	2950.5	2814.6	2386.1	1844.9	1627.7	1636.9	1693.2	1752.9	1790.2	1809.2
3229.8	22.5°	3102.2	2917.3	2314.8	1672.5	1543.2	1585.5	1651.8	1709.8	1748.7	1767.8
3441.1	25°	3275.4	3032.5	2202.9	1527.5	1470.3	1527.5	1593.8	1641.8	1673.3	1690.7
3677.3	27.5°	3467.6	3152.7	2053.7	1412.3	1406.5	1467.8	1522.5	1559.8	1576.4	1589.6
3928.5	30°	3660.8	3262.1	1873.1	1325.2	1350.9	1408.9	1447.9	1464.5	1469.4	1471.9
4208.6	32.5°	3869.6	3356.6	1683.3	1253.1	1297.9	1351.8	1375.0	1382.4	1359.2	1343.5
4548.4	35°	4122.4	3457.7	1497.6	1195.9	1245.7	1292.1	1299.5	1292.9	1265.6	1233.2
4974.4	37.5°	4434.8	3583.7	1349.3	1155.3	1196.8	1227.4	1218.3	1216.7	1219.1	1181.0
5486.6	40°	4817.7	3747.8	1240.7	1123.8	1157.0	1163.6	1137.9	1152.0	1164.4	1106.4
6048.5	42.5°	5242.9	3945.9	1171.9	1102.3	1123.8	1108.1	1068.3	1084.1	1082.4	1006.1
6612.9	45°	5676.4	4161.3	1147.9	1086.5	1093.2	1061.7	1017.8	1021.9	987.1	918.3
7154.1	47.5°	6107.3	4392.6	1162.8	1073.3	1055.0	1019.4	985.4	967.2	915.8	864.4
7672.9	50°	6530.0	4635.4	1217.5	1046.8	1002.8	982.1	957.2	924.9	870.2	826.3
8163.6	52.5°	6922.0	4879.9	1278.8	1002.8	937.4	949.8	934.0	896.7	842.9	798.1
8627.7	55°	7293.3	5124.4	1302.9	942.3	876.0	921.6	912.5	843.7	779.1	742.6
9113.4	57.5°	7697.8	5418.6	1276.3	865.3	826.3	889.3	854.5	778.2	740.9	713.6
9745.7	60°	8258.0	5880.2	1219.1	769.9	779.1	841.2	781.5	750.1	709.4	678.8
10693.8	62.5°	9188.8	6741.4	1127.2	675.5	723.5	769.9	746.7	715.2	673.8	644.0
12315.0	65°	10564.6	7938.1	953.9	601.7	661.4	700.3	709.4	677.9	634.9	603.4
13735.5	67.5°	11724.9	8689.0	721.9	540.4	597.6	644.0	669.7	639.0	593.4	562.7
14067.8	70°	11661.0	8143.7	551.1	479.9	541.2	588.4	621.6	597.6	548.7	519.6
12778.3	72.5°	10357.4	6812.6	445.9	418.5	484.0	530.4	570.2	552.0	502.2	474.1
9361.2	75°	7609.1	4836.0	356.4	356.4	412.7	469.9	513.8	502.2	456.7	436.8
3930.1	77.5°	3207.4	2028.9	279.3	295.9	343.1	403.6	458.3	462.5	422.7	447.5
1039.3	80°	852.8	559.4	213.0	232.9	269.4	333.2	398.6	397.0	353.9	330.7
386.2	82.5°	324.9	220.5	151.7	164.1	194.8	255.3	315.8	325.7	282.6	244.5
151.7	85°	125.1	94.5	93.7	98.6	113.5	169.1	238.7	247.0	213.0	180.7
42.3	87.5°	32.3	28.2	34.8	33.2	52.2	90.3	136.7	141.7	130.1	75.4
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>
2289.9
2184.7
2024.7
1878.9
1791.0
1766.1
1786.0
1814.2
1814.2
1772.8
1695.7
1594.6
1477.7
1348.4
1234.9
1183.5
1108.1
1005.3
920.8
864.4
823.0
799.0
739.3
711.1
677.1
644.0
605.0
563.6
522.1
474.1
431.0
406.1
307.5
244.5
186.5
107.7
0.0

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