

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: P941065

Luminaire Tested: **GALN-SB4B-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941065
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-SB4B-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15556 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

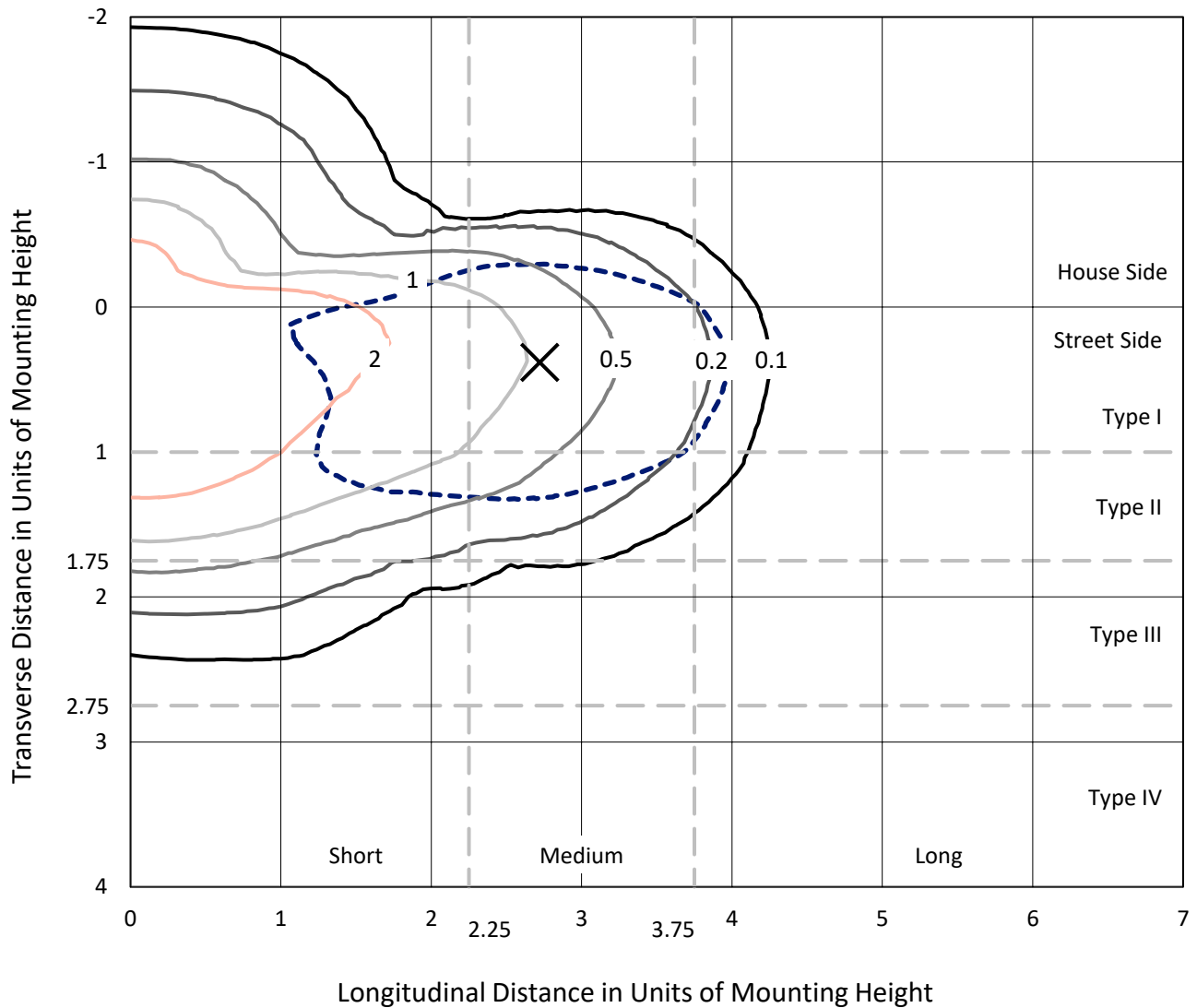
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

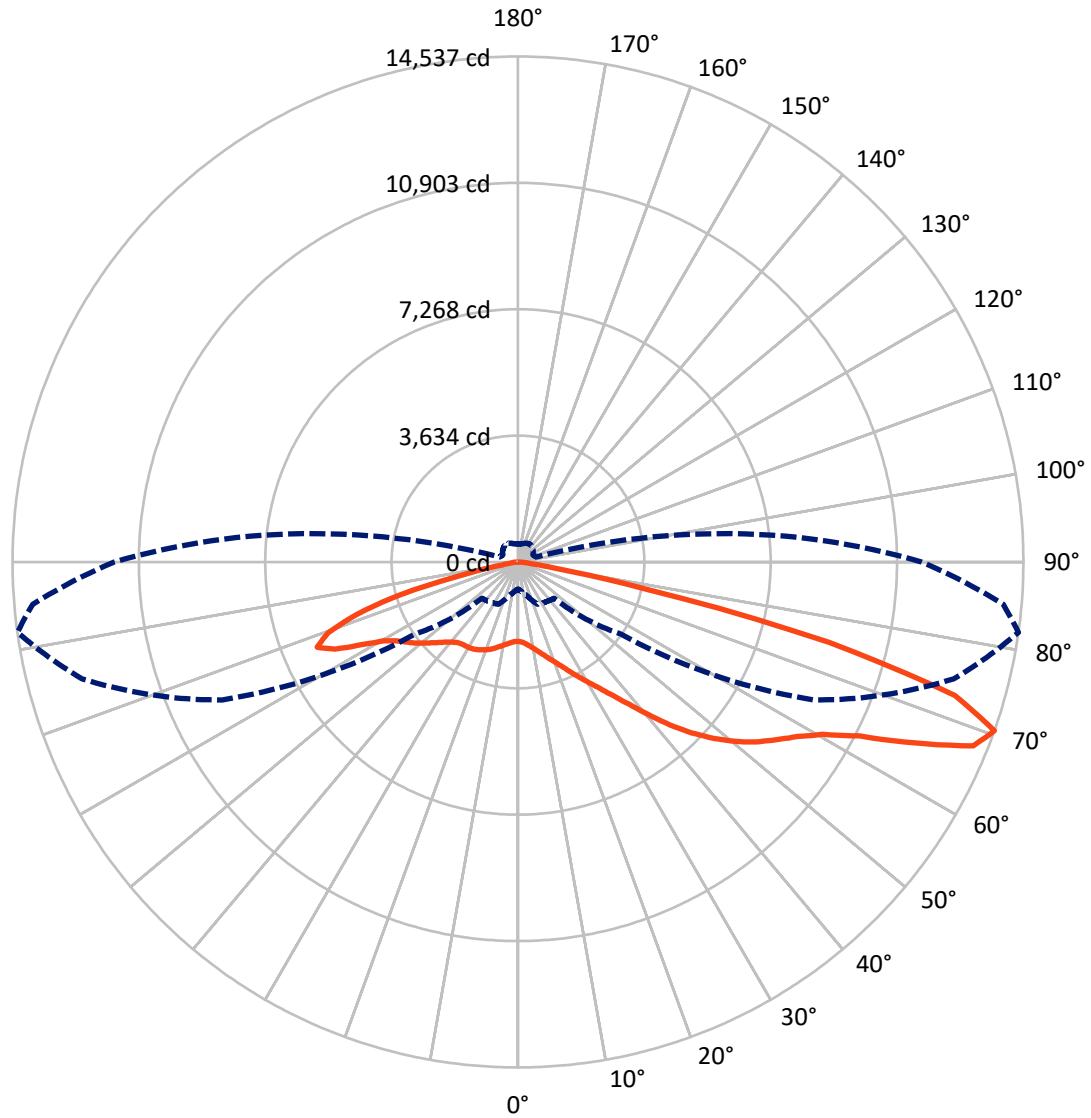
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3834.9	0.0	3834.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11721.1	0.0	11721.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	15556.0	0.0	15556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.4
10°-20°	618.7	4.0
20°-30°	1035.0	6.7
30°-40°	1616.9	10.4
40°-50°	2575.1	16.6
50°-60°	3583.6	23.0
60°-70°	3748.6	24.1
70°-80°	1959.2	12.6
80°-90°	203.4	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°	15556.0	100.0
0°-180°	15556.0	100.0

Coefficient of Utilization



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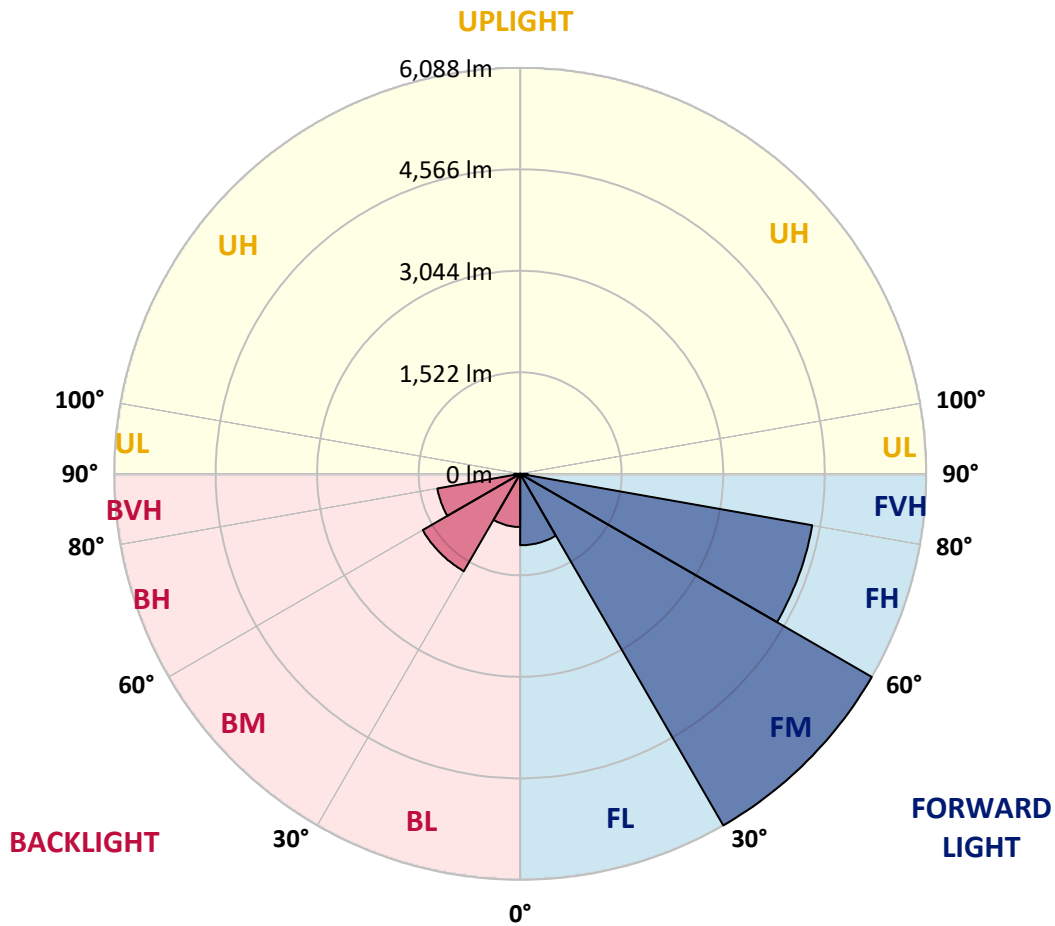
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.2	6.9			
FM (30°-60°)	6088.5	39.1			
FH (60°-80°)	4447.5	28.6			G2/5000
FVH (80°-90°)	113.9	0.7			G2/225
BL (0°-30°)	797.8	5.1	B2/1000		
BM (30°-60°)	1687.2	10.8	B2/2500		
BH (60°-80°)	1260.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	89.6	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°	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7
2.5°	2335.2	2348.4	2344.3	2340.1	2340.1	2334.4	2333.5	2325.3	2318.7	2307.9
5°	2364.9	2378.9	2377.3	2380.6	2391.3	2393.8	2396.3	2391.3	2378.1	2364.9
7.5°	2338.5	2354.2	2359.1	2378.9	2411.9	2441.7	2464.0	2473.0	2460.7	2441.7
10°	2249.3	2266.7	2284.0	2331.1	2389.7	2459.8	2519.3	2554.8	2552.3	2534.1
12.5°	2068.6	2086.7	2123.9	2215.5	2322.8	2446.6	2557.2	2631.5	2657.1	2643.9
15°	1924.1	1939.8	1967.9	2062.0	2201.5	2389.7	2571.3	2715.7	2780.9	2773.5
17.5°	1920.0	1926.6	1943.9	1988.5	2095.8	2300.5	2556.4	2798.3	2922.9	2922.1
20°	1992.6	1995.1	2005.0	2014.1	2075.2	2232.8	2518.4	2866.8	3082.2	3082.2
22.5°	2093.3	2091.7	2101.6	2093.3	2123.0	2227.1	2494.5	2927.0	3259.7	3272.9
25°	2244.4	2236.1	2233.7	2214.7	2220.4	2280.7	2520.9	2995.5	3470.2	3497.4
27.5°	2445.8	2432.6	2423.5	2379.8	2364.9	2391.3	2601.8	3078.1	3704.6	3751.6
30°	2708.3	2684.3	2671.1	2595.2	2541.5	2545.7	2724.0	3187.9	3949.8	4025.7
32.5°	3066.5	3029.4	2993.9	2869.2	2771.0	2738.8	2881.6	3339.7	4215.5	4336.9
35°	3467.7	3438.0	3400.0	3207.7	3056.6	2982.3	3094.6	3551.9	4526.7	4719.1
37.5°	3854.0	3828.4	3846.6	3587.4	3392.6	3284.4	3373.6	3836.7	4910.6	5194.5
40°	4253.5	4233.7	4236.2	3988.5	3761.6	3640.2	3712.0	4194.1	5350.5	5760.0
42.5°	4687.7	4672.8	4623.3	4403.7	4148.7	4035.6	4101.6	4606.8	5822.7	6403.8
45°	5173.9	5164.8	5118.6	4866.8	4574.6	4447.5	4536.6	5062.5	6297.3	7009.7
47.5°	5594.0	5601.5	5595.7	5383.6	5080.6	4894.1	5000.5	5537.9	6738.9	7579.2
50°	5796.3	5835.1	5892.0	5826.0	5637.8	5447.9	5468.6	5996.9	7159.9	8113.3
52.5°	5690.6	5764.1	5919.3	6024.9	6097.6	6057.9	6002.6	6452.5	7556.1	8595.4
55°	5296.9	5400.1	5657.6	5912.7	6283.3	6571.4	6644.0	6957.7	7942.4	9019.6
57.5°	4579.6	4747.1	4978.3	5494.2	6118.2	6819.8	7391.9	7658.5	8351.9	9472.8
60°	3349.7	3574.2	3861.4	4629.1	5540.4	6686.9	8028.3	8734.9	8933.8	10059.7
62.5°	2143.7	2282.4	2546.5	3269.6	4317.1	6005.9	8223.1	10080.3	9920.2	11022.2
65°	1467.6	1556.8	1798.6	2204.8	2790.8	4470.6	7701.4	11089.0	11486.9	12547.6
67.5°	1066.5	1134.2	1340.5	1696.3	1818.5	2645.6	5976.2	11042.8	13009.8	14119.2
70°	777.6	825.4	998.8	1340.5	1399.1	1471.8	3620.4	9387.0	12976.8	14536.9
72.5°	576.2	609.2	725.6	1040.1	1132.5	993.8	1792.0	6822.3	11150.9	13148.5
75°	416.8	441.6	527.5	795.7	906.3	756.9	894.0	3986.9	7778.2	9249.1
77.5°	318.6	337.6	393.7	582.8	725.6	567.9	554.7	1834.1	3688.1	3706.2
80°	255.9	268.3	298.8	410.2	556.3	425.1	361.5	740.4	1165.5	986.4
82.5°	188.2	208.8	252.6	288.1	397.9	293.0	220.4	373.9	443.3	381.4
85°	107.3	121.3	152.7	206.4	254.2	179.1	126.3	165.9	206.4	169.2
87.5°	38.0	49.5	53.7	80.9	110.6	74.3	48.7	47.9	67.7	50.4
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°
2280.7	0°	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7	2280.7
2305.5	2.5°	2297.2	2293.1	2276.6	2254.3	2231.2	2208.9	2201.5	2185.8	2175.0	2169.3
2359.1	5°	2343.4	2330.2	2291.4	2241.9	2189.9	2133.8	2094.2	2057.8	2031.4	2006.7
2432.6	7.5°	2409.5	2386.4	2319.5	2232.8	2140.4	2047.1	1977.8	1924.9	1889.4	1866.3
2518.4	10°	2486.2	2450.7	2348.4	2218.8	2076.0	1942.3	1860.6	1815.2	1792.9	1780.5
2616.7	12.5°	2574.6	2524.2	2378.1	2186.6	1977.8	1825.1	1768.9	1755.7	1756.5	1757.4
2740.5	15°	2683.5	2613.4	2402.0	2116.4	1849.8	1735.1	1725.2	1746.6	1768.9	1779.7
2880.8	17.5°	2806.5	2707.5	2406.2	2000.9	1724.4	1677.3	1708.7	1754.9	1788.7	1803.6
3037.6	20°	2938.6	2803.2	2376.5	1837.4	1621.2	1630.3	1686.4	1745.8	1783.0	1801.9
3216.8	22.5°	3089.6	2905.6	2305.5	1665.7	1537.0	1579.1	1645.1	1702.9	1741.7	1760.7
3427.2	25°	3262.2	3020.3	2194.0	1521.3	1464.3	1521.3	1587.3	1635.2	1666.6	1683.9
3662.5	27.5°	3453.7	3140.0	2045.5	1406.6	1400.8	1461.9	1516.3	1553.5	1570.0	1583.2
3912.6	30°	3646.0	3249.0	1865.5	1319.9	1345.5	1403.3	1442.1	1458.6	1463.5	1466.0
4191.6	32.5°	3854.0	3343.1	1676.5	1248.1	1292.6	1346.3	1369.4	1376.8	1353.7	1338.0
4530.0	35°	4105.8	3443.8	1491.6	1191.1	1240.6	1286.9	1294.3	1287.7	1260.5	1228.3
4954.3	37.5°	4417.0	3569.2	1343.8	1150.7	1191.9	1222.5	1213.4	1211.8	1214.2	1176.3
5464.4	40°	4798.3	3732.7	1235.7	1119.3	1152.3	1158.9	1133.3	1147.4	1159.8	1102.0
6024.1	42.5°	5221.8	3929.9	1167.2	1097.8	1119.3	1103.6	1064.0	1079.7	1078.0	1002.1
6586.2	45°	5653.5	4144.6	1143.2	1082.2	1088.8	1057.4	1013.6	1017.8	983.1	914.6
7125.2	47.5°	6082.7	4374.9	1158.1	1069.0	1050.8	1015.3	981.5	963.3	912.1	860.9
7642.0	50°	6503.7	4616.7	1212.6	1042.5	998.8	978.2	953.4	921.2	866.7	823.0
8130.6	52.5°	6894.1	4860.2	1273.7	998.8	933.6	946.0	930.3	893.1	839.5	794.9
8592.9	55°	7263.9	5103.7	1297.6	938.5	872.5	917.9	908.8	840.3	775.9	739.6
9076.6	57.5°	7666.7	5396.8	1271.2	861.8	823.0	885.7	851.0	775.1	737.9	710.7
9706.4	60°	8224.7	5856.5	1214.2	766.8	775.9	837.8	778.4	747.0	706.6	676.0
10650.7	62.5°	9151.7	6714.2	1122.6	672.7	720.6	766.8	743.7	712.4	671.1	641.4
12265.3	65°	10521.9	7906.1	950.1	599.3	658.7	697.5	706.6	675.2	632.3	600.9
13680.1	67.5°	11677.6	8654.0	719.0	538.2	595.1	641.4	667.0	636.4	591.0	560.5
14011.1	70°	11614.0	8110.8	548.9	477.9	539.0	586.1	619.1	595.1	546.4	517.6
12726.7	72.5°	10315.6	6785.2	444.1	416.8	482.1	528.3	567.9	549.7	500.2	472.2
9323.4	75°	7578.4	4816.5	354.9	354.9	411.1	468.0	511.8	500.2	454.8	435.0
3914.3	77.5°	3194.5	2020.7	278.2	294.7	341.7	402.0	456.5	460.6	421.0	445.7
1035.1	80°	849.4	557.2	212.1	232.0	268.3	331.8	397.0	395.4	352.5	329.4
384.7	82.5°	323.6	219.6	151.1	163.4	194.0	254.2	314.5	324.4	281.5	243.5
151.1	85°	124.6	94.1	93.3	98.2	113.1	168.4	237.7	246.0	212.1	179.9
42.1	87.5°	32.2	28.1	34.7	33.0	52.0	90.0	136.2	141.2	129.6	75.1
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>
2280.7
2175.9
2016.6
1871.3
1783.8
1759.0
1778.8
1806.9
1806.9
1765.6
1688.9
1588.2
1471.8
1343.0
1229.9
1178.7
1103.6
1001.3
917.1
860.9
819.7
795.7
736.3
708.2
674.4
641.4
602.6
561.3
520.0
472.2
429.2
404.5
306.2
243.5
185.7
107.3
0.0

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