

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: P950472

Luminaire Tested: **GALN-SB4D-930-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-930-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28897 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

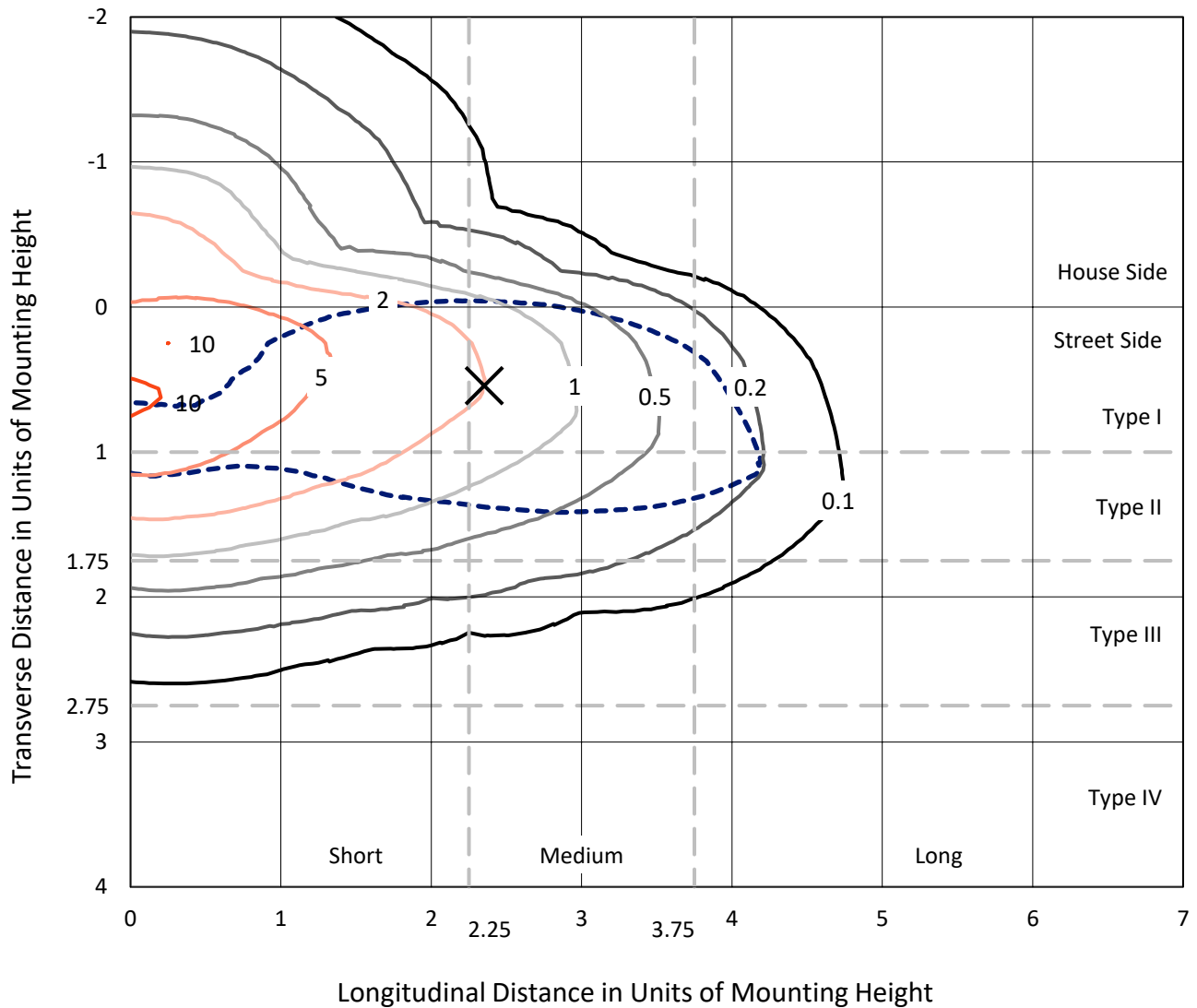
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950472
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Iso-Footcandle Lines of Horizontal Illumination

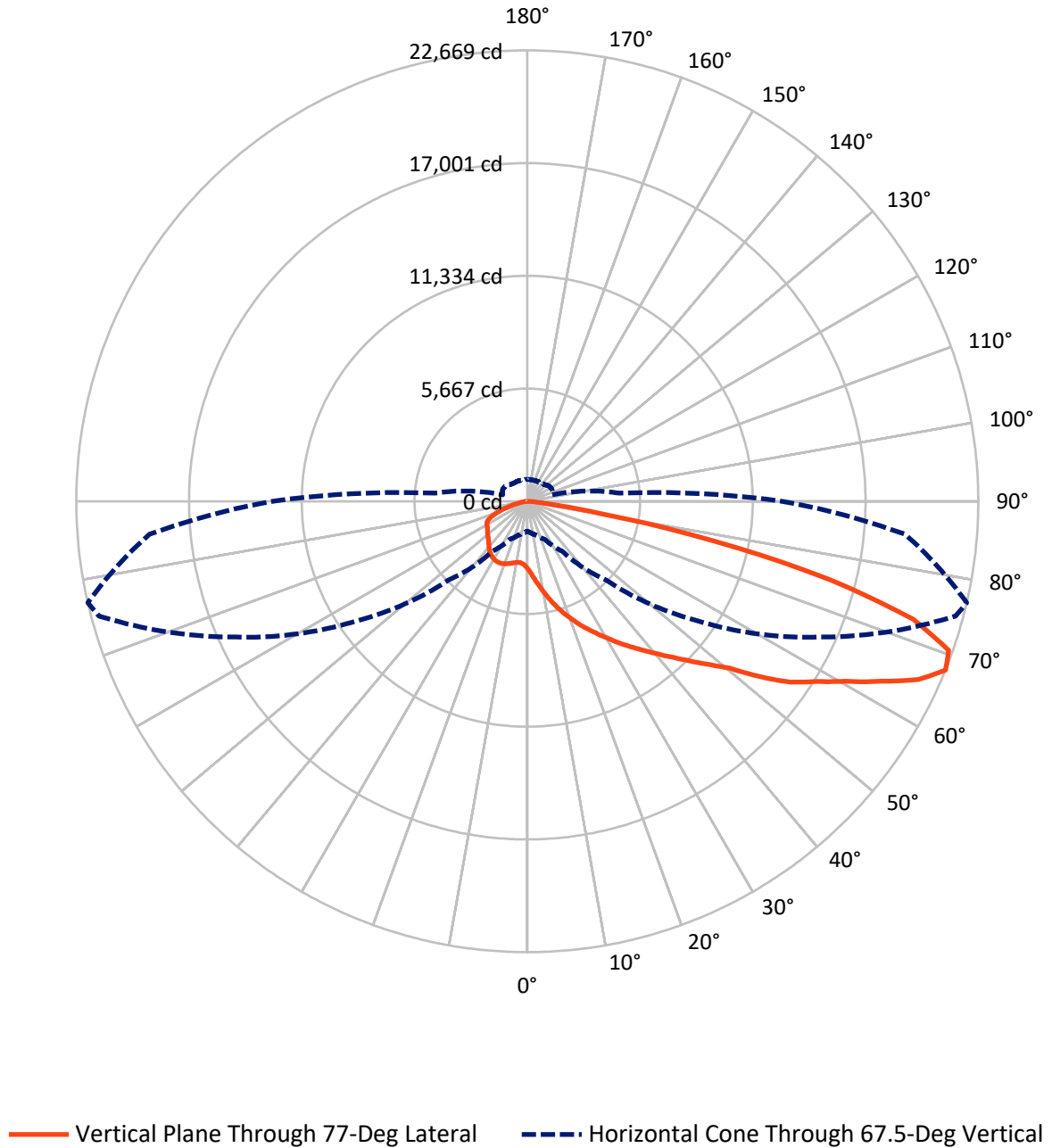
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4D-930-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5466.1	0.0	5466.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23430.8	0.0	23430.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	28897.0	0.0	28897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	1.3
10°-20°	1305.6	4.5
20°-30°	2465.1	8.5
30°-40°	3971.3	13.7
40°-50°	5432.0	18.8
50°-60°	6127.3	21.2
60°-70°	5719.1	19.8
70°-80°	3135.0	10.8
80°-90°	378.2	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°	28897.0	100.0
0°-180°	28897.0	100.0



REPORT NUMBER: P950472

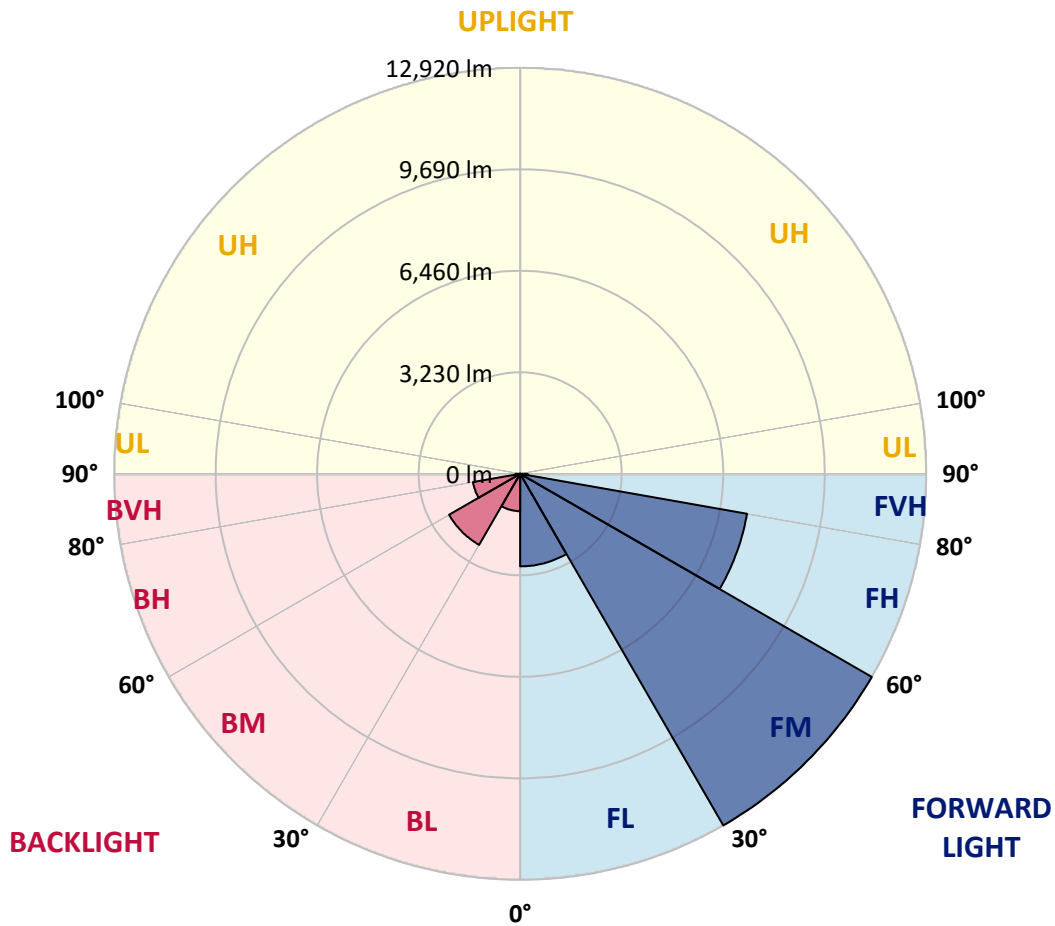
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2945.7	10.2			
FM (30°-60°)	12919.5	44.7			
FH (60°-80°)	7329.1	25.4			G3/7500
FVH (80°-90°)	236.5	0.8			G3/500
BL (0°-30°)	1188.5	4.1	B3/2500		
BM (30°-60°)	2611.0	9.0	B3/5000		
BH (60°-80°)	1525.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	141.7	0.5			G2/225
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



REPORT NUMBER: P950472
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5
2.5°	4245.2	4275.1	4237.8	4237.8	4112.5	4046.8	3921.5	3826.1	3654.5	3624.7
5°	5017.9	5055.2	5003.0	4980.6	4832.9	4697.2	4486.9	4279.5	3973.8	3942.4
7.5°	5616.1	5663.8	5617.5	5593.7	5462.4	5310.3	5064.1	4774.8	4343.7	4282.5
10°	6103.8	6111.3	6096.4	6105.3	6002.4	5877.1	5625.0	5287.9	4749.4	4665.9
12.5°	6379.8	6414.1	6443.9	6497.6	6479.7	6402.2	6175.4	5772.7	5179.0	5071.6
15°	6509.6	6569.2	6636.3	6760.1	6860.1	6879.5	6706.4	6293.3	5616.1	5486.3
17.5°	6555.8	6612.5	6718.4	6897.4	7112.2	7256.9	7179.3	6798.9	6048.6	5899.5
20°	6790.0	6806.4	6870.5	7040.6	7273.3	7513.4	7571.6	7285.2	6476.7	6308.2
22.5°	7291.2	7258.4	7276.3	7353.8	7520.9	7753.6	7886.3	7714.8	6916.8	6722.9
25°	8119.0	8023.6	7928.1	7838.6	7923.6	8054.9	8205.6	8144.4	7377.7	7131.6
27.5°	9164.7	9048.3	8838.0	8544.2	8441.2	8487.5	8554.6	8542.7	7804.3	7555.2
30°	10193.9	10058.2	9807.6	9382.5	9111.0	8988.7	8938.0	8903.6	8268.2	8002.7
32.5°	11015.8	10908.4	10662.3	10186.5	9792.7	9583.8	9415.3	9293.0	8753.0	8487.5
35°	11734.8	11634.9	11352.9	10833.8	10405.7	10183.5	9962.7	9701.7	9257.2	8988.7
37.5°	12391.1	12291.2	11904.8	11364.9	10933.8	10780.1	10583.2	10140.2	9762.8	9509.3
40°	12805.8	12783.4	12422.4	11810.9	11363.4	11287.3	11221.7	10648.9	10323.7	10088.0
42.5°	12911.7	12960.9	12674.5	12171.8	11745.2	11684.1	11837.7	11224.7	10953.2	10727.9
45°	12656.6	12798.3	12610.4	12268.8	12016.7	11983.9	12383.7	11854.1	11649.8	11443.9
47.5°	12010.7	12250.9	12173.3	12125.6	12089.8	12231.5	12864.0	12522.4	12438.9	12259.9
50°	10707.0	11162.0	11297.7	11599.1	11945.1	12423.9	13301.0	13251.8	13360.7	13180.2
52.5°	8453.2	9079.7	9867.3	10622.0	11500.6	12359.8	13781.3	14298.9	14758.4	14659.9
55°	6977.9	7259.9	7865.5	9249.7	10638.4	12089.8	13997.6	15144.7	16145.6	16057.6
57.5°	5844.3	6096.4	6469.3	7625.3	9334.7	11476.7	14131.9	15660.8	17095.8	17086.8
60°	4628.6	4895.6	5277.5	6096.4	7811.8	10417.7	14102.0	16248.5	18308.5	18383.1
62.5°	3256.3	3550.1	3973.8	4737.5	6256.0	9045.4	13493.4	16673.6	19736.0	19938.9
65°	2140.5	2334.4	2653.6	3313.0	4661.4	7280.7	12331.5	16728.8	21263.4	21606.5
67.5°	1500.6	1575.2	1763.1	2121.1	3072.8	5583.2	10480.3	16157.5	22282.2	22668.6
70°	1170.9	1208.2	1303.7	1446.9	1930.2	3754.5	8031.0	14671.8	22064.5	22467.2
72.5°	1011.3	1047.1	1082.9	1100.8	1294.8	2318.0	5440.0	12267.3	20013.4	20286.4
75°	917.4	926.3	956.1	950.2	987.5	1503.6	3139.9	8938.0	15790.6	15696.6
77.5°	771.2	783.1	832.3	824.9	877.1	1027.7	1630.4	5768.2	10237.2	9598.8
80°	653.3	659.3	713.0	704.1	762.2	744.3	832.3	2940.0	4342.2	3678.4
82.5°	226.7	280.4	544.5	560.9	581.7	450.5	480.3	1199.3	1326.1	1015.8
85°	110.4	117.8	277.4	393.8	392.3	226.7	234.2	428.1	417.7	328.2
87.5°	17.9	22.4	32.8	153.6	122.3	59.7	80.5	83.5	86.5	74.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950472
 CATALOG NUMBER: GALN-SB4D-930-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3390.5	0°	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5	3390.5
3511.3	2.5°	3427.8	3353.2	3196.6	3051.9	2938.5	2829.7	2768.5	2716.3	2686.5	2680.5
3675.4	5°	3520.3	3366.6	3081.7	2841.6	2685.0	2568.6	2507.5	2468.7	2449.3	2437.4
3896.2	7.5°	3653.0	3427.8	3022.1	2749.1	2585.0	2501.5	2470.2	2464.2	2462.7	2464.2
4163.2	10°	3836.5	3527.7	3016.1	2726.7	2589.5	2543.3	2541.8	2543.3	2549.2	2550.7
4454.1	12.5°	4034.9	3630.7	3040.0	2746.1	2646.2	2620.8	2616.4	2614.9	2619.3	2622.3
4747.9	15°	4251.2	3766.4	3080.3	2787.9	2708.8	2682.0	2677.5	2668.6	2667.1	2665.6
5056.7	17.5°	4473.5	3900.7	3125.0	2832.6	2749.1	2711.8	2695.4	2674.5	2658.1	2653.6
5375.9	20°	4698.7	4033.4	3156.3	2855.0	2752.1	2699.9	2667.1	2631.3	2602.9	2586.5
5698.1	22.5°	4938.8	4172.1	3175.7	2849.0	2725.2	2653.6	2594.0	2552.2	2509.0	2480.6
6023.3	25°	5173.0	4293.0	3174.2	2817.7	2673.0	2582.0	2506.0	2452.3	2392.6	2362.8
6358.9	27.5°	5398.3	4401.9	3136.9	2762.5	2598.5	2497.0	2406.0	2341.9	2283.7	2255.4
6697.5	30°	5631.0	4492.8	3078.8	2682.0	2510.4	2398.6	2298.6	2243.4	2191.2	2164.4
7055.5	32.5°	5862.2	4576.4	2996.7	2582.0	2409.0	2301.6	2203.2	2152.4	2121.1	2121.1
7440.3	35°	6106.8	4634.6	2887.8	2465.7	2301.6	2198.7	2121.1	2091.3	2088.3	2070.4
7847.6	37.5°	6364.9	4671.8	2755.1	2346.4	2195.7	2098.7	2074.9	2039.1	2009.2	1970.5
8295.1	40°	6636.3	4709.1	2595.5	2222.6	2083.8	2030.1	2019.7	1972.0	1886.9	1791.5
8802.2	42.5°	6966.0	4734.5	2429.9	2098.7	1966.0	1948.1	1963.0	1881.0	1745.2	1673.6
9413.8	45°	7347.9	4776.3	2277.7	1976.4	1845.2	1845.2	1907.8	1800.4	1688.5	1643.8
10111.9	47.5°	7843.1	4873.2	2136.0	1842.2	1733.3	1763.1	1785.5	1703.5	1640.8	1585.6
10962.1	50°	8559.1	5105.9	1989.9	1706.4	1648.3	1707.9	1676.6	1628.9	1555.8	1511.0
12313.6	52.5°	9448.1	5243.1	1860.1	1584.1	1575.2	1634.8	1590.1	1545.3	1490.2	1430.5
13338.3	55°	10053.7	5268.5	1751.2	1494.6	1526.0	1520.0	1503.6	1463.3	1433.5	1354.4
14349.7	57.5°	10730.9	5319.2	1661.7	1440.9	1494.6	1429.0	1423.0	1388.7	1349.9	1296.2
15583.2	60°	11540.9	5398.3	1584.1	1420.0	1467.8	1369.3	1339.5	1326.1	1287.3	1260.4
17067.4	62.5°	12423.9	5469.9	1505.1	1423.0	1436.5	1311.2	1266.4	1261.9	1238.1	1229.1
18460.6	65°	13026.6	5274.5	1406.6	1420.0	1387.2	1251.5	1194.8	1193.3	1173.9	1170.9
19064.8	67.5°	12816.2	4655.4	1273.9	1378.3	1336.5	1191.8	1129.2	1123.2	1097.9	1099.3
18433.8	70°	11763.1	3772.4	1090.4	1275.4	1273.9	1138.1	1060.6	1041.2	1006.9	1012.8
16027.8	72.5°	9788.2	2795.3	844.3	1103.8	1173.9	1088.9	981.5	950.2	906.9	912.9
11831.8	75°	7068.9	1900.4	614.6	839.8	1021.8	1030.7	903.9	850.2	798.0	807.0
6585.6	77.5°	3617.2	1077.0	452.0	578.8	802.5	936.8	833.8	762.2	750.3	833.8
1898.9	80°	1179.9	540.0	313.2	405.7	526.6	766.7	730.9	648.9	645.9	665.3
398.3	82.5°	352.0	228.2	201.4	267.0	290.9	587.7	631.0	490.8	422.1	444.5
132.8	85°	120.8	110.4	114.9	132.8	138.7	344.6	441.5	325.2	307.3	338.6
29.8	87.5°	28.3	38.8	32.8	29.8	29.8	83.5	171.5	135.7	187.9	125.3
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>
3390.5
2680.5
2435.9
2468.7
2552.2
2623.8
2664.1
2658.1
2592.5
2482.1
2362.8
2253.9
2162.9
2122.6
2065.9
1964.5
1778.0
1675.1
1651.3
1584.1
1506.6
1418.6
1355.9
1278.3
1267.9
1229.1
1169.5
1099.3
1018.8
911.4
810.0
821.9
571.3
459.4
334.1
120.8
0.0

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