

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: P946608

Luminaire Tested: **GALN-SB2A-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946608
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-SB2A-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6356 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

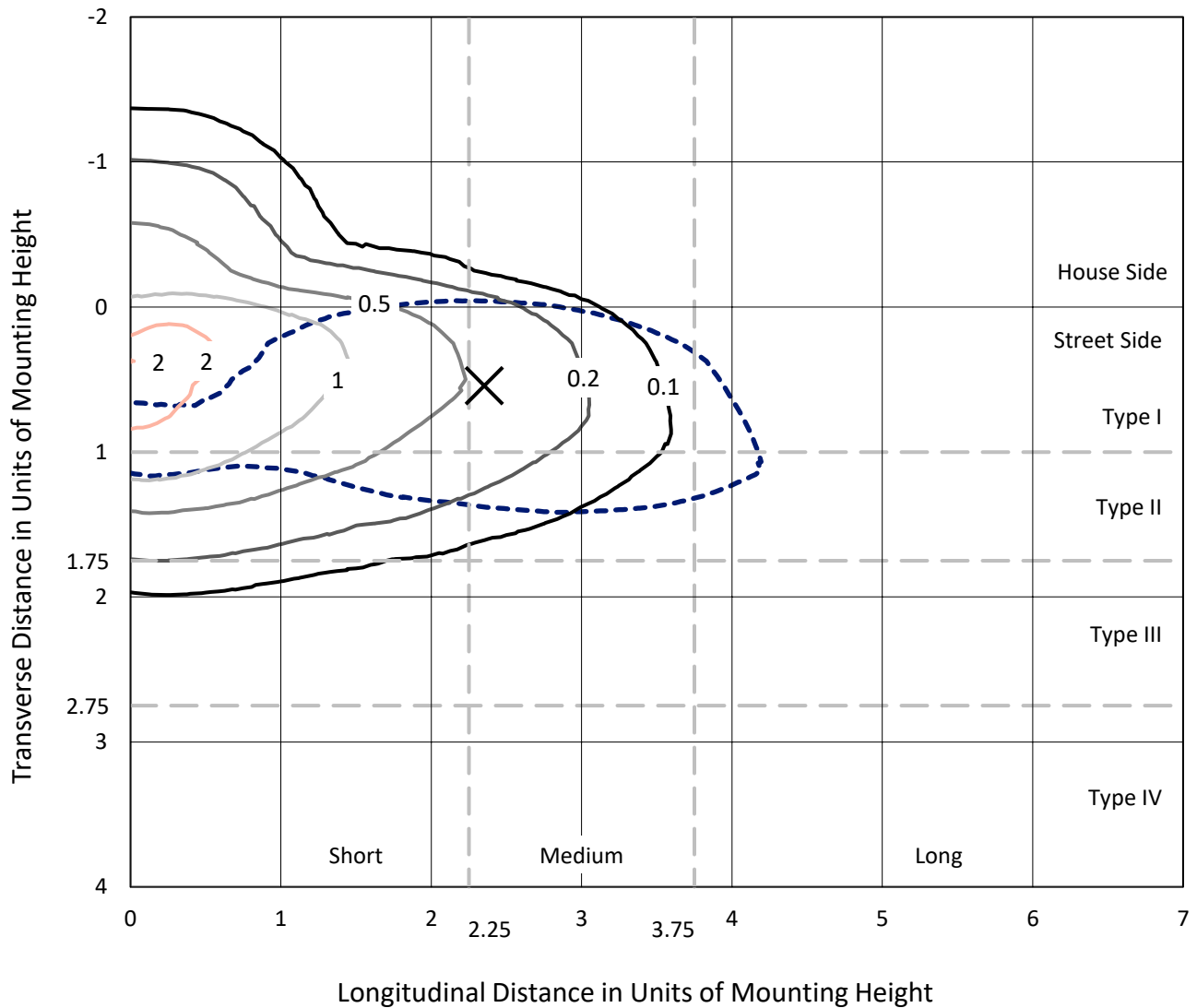
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946608
 CATALOG NUMBER: GALN-SB2A-950-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

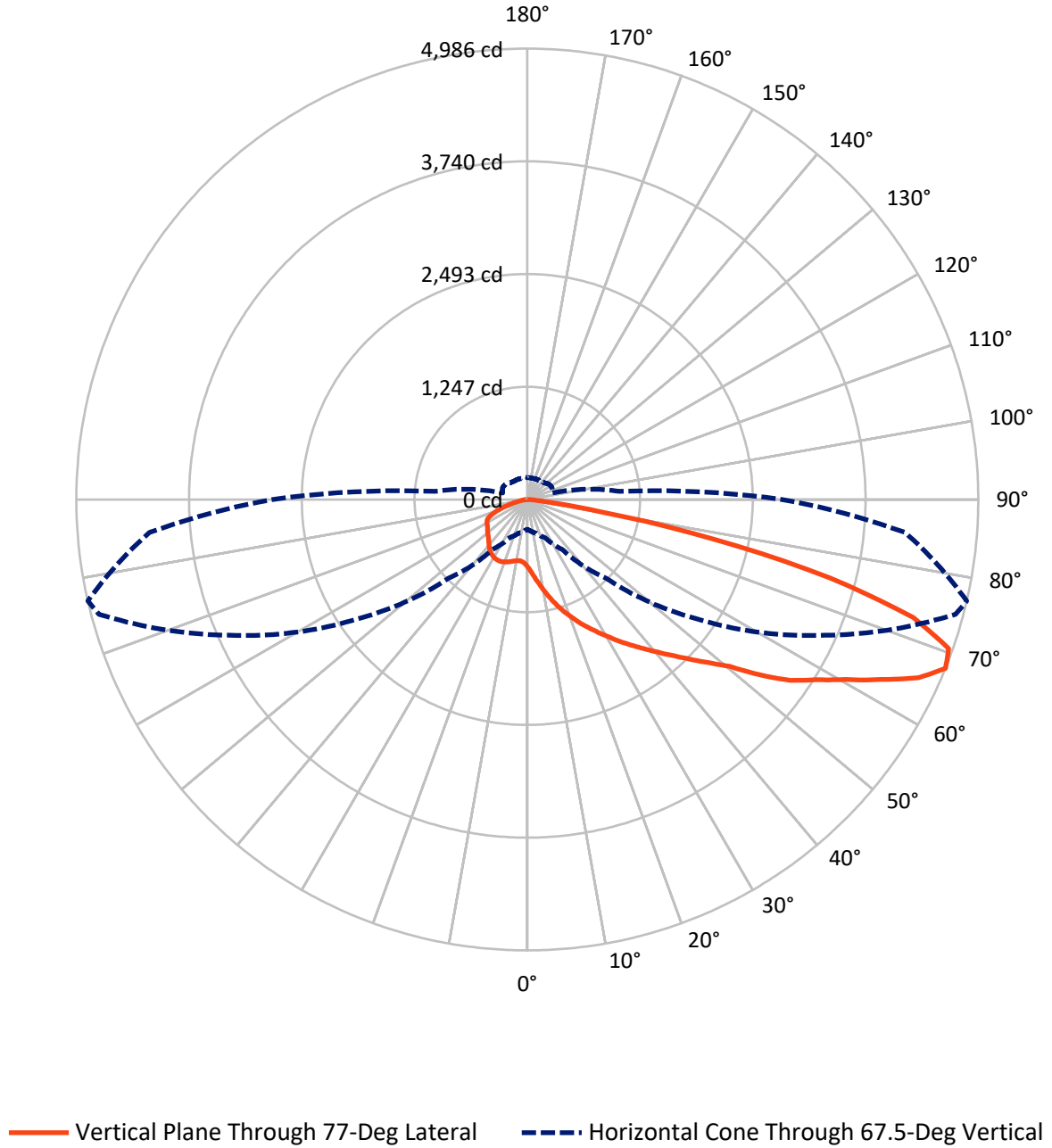
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1202.3	0.0	1202.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5153.7	0.0	5153.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	6356.0	0.0	6356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.3
10°-20°	287.2	4.5
20°-30°	542.2	8.5
30°-40°	873.5	13.7
40°-50°	1194.8	18.8
50°-60°	1347.7	21.2
60°-70°	1257.9	19.8
70°-80°	689.6	10.8
80°-90°	83.2	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°	6356.0	100.0
0°-180°	6356.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946608

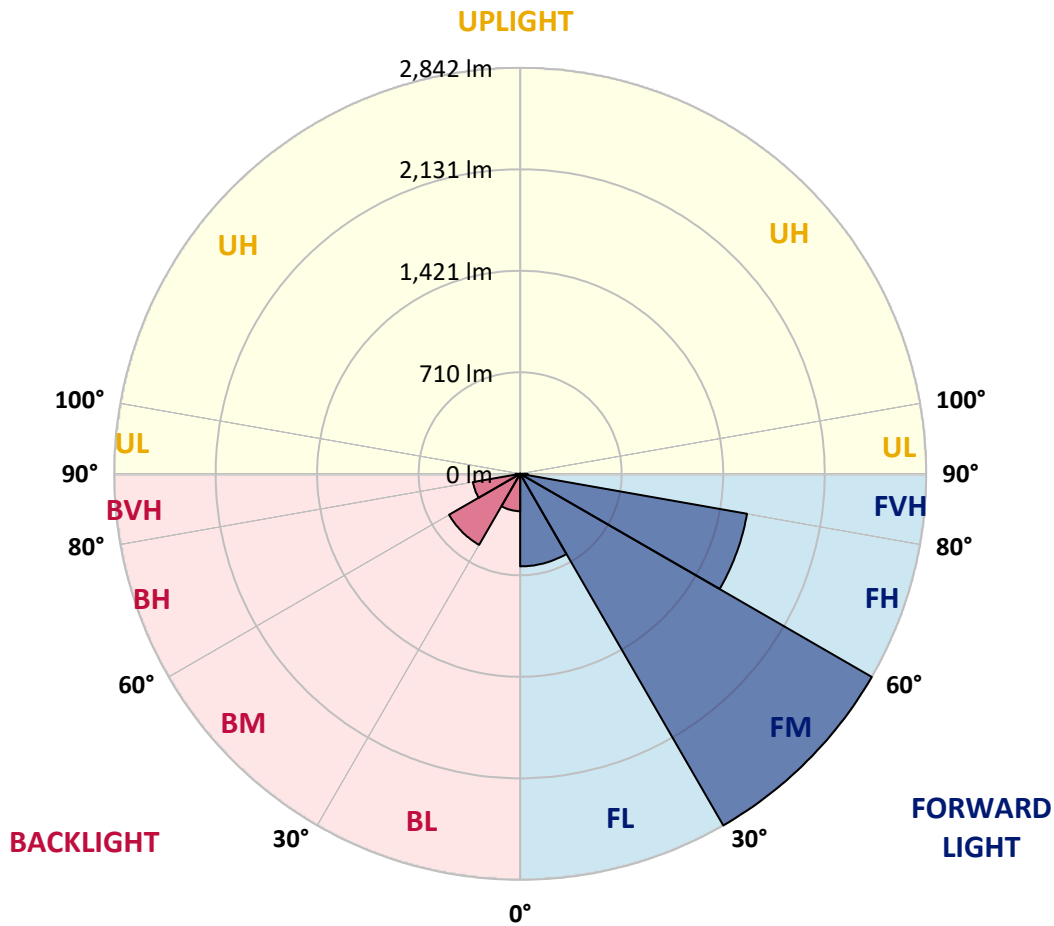
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.9	10.2			
FM (30°-60°)	2841.7	44.7			
FH (60°-80°)	1612.1	25.4			G1/1800
FVH (80°-90°)	52.0	0.8			G1/100
BL (0°-30°)	261.4	4.1	B1/500		
BM (30°-60°)	574.3	9.0	B1/1000		
BH (60°-80°)	335.4	5.3	B1/500		G1/500
BVH (80°-90°)	31.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	933.8	940.3	932.1	932.1	904.6	890.1	862.6	841.6	803.8	797.3
5°	1103.7	1111.9	1100.4	1095.5	1063.0	1033.2	986.9	941.3	874.0	867.2
7.5°	1235.3	1245.8	1235.6	1230.4	1201.5	1168.0	1113.9	1050.2	955.4	942.0
10°	1342.6	1344.2	1340.9	1342.9	1320.2	1292.7	1237.2	1163.1	1044.6	1026.3
12.5°	1403.3	1410.8	1417.4	1429.2	1425.2	1408.2	1358.3	1269.7	1139.1	1115.5
15°	1431.8	1444.9	1459.7	1486.9	1508.9	1513.2	1475.1	1384.2	1235.3	1206.7
17.5°	1442.0	1454.4	1477.7	1517.1	1564.3	1596.2	1579.1	1495.4	1330.4	1297.6
20°	1493.5	1497.1	1511.2	1548.6	1599.8	1652.6	1665.4	1602.4	1424.6	1387.5
22.5°	1603.7	1596.5	1600.4	1617.5	1654.2	1705.4	1734.6	1696.9	1521.4	1478.7
25°	1785.8	1764.8	1743.8	1724.1	1742.8	1771.7	1804.8	1791.4	1622.7	1568.6
27.5°	2015.8	1990.2	1944.0	1879.3	1856.7	1866.9	1881.6	1879.0	1716.6	1661.8
30°	2242.2	2212.3	2157.2	2063.7	2004.0	1977.1	1965.9	1958.4	1818.6	1760.2
32.5°	2423.0	2399.3	2345.2	2240.5	2153.9	2108.0	2070.9	2044.0	1925.3	1866.9
35°	2581.1	2559.1	2497.1	2382.9	2288.8	2239.9	2191.3	2133.9	2036.1	1977.1
37.5°	2725.5	2703.5	2618.5	2499.7	2404.9	2371.1	2327.8	2230.4	2147.4	2091.6
40°	2816.7	2811.8	2732.4	2597.8	2499.4	2482.7	2468.2	2342.3	2270.7	2218.9
42.5°	2840.0	2850.8	2787.8	2677.2	2583.4	2570.0	2603.7	2468.9	2409.2	2359.6
45°	2783.9	2815.0	2773.7	2698.6	2643.1	2635.9	2723.8	2607.4	2562.4	2517.1
47.5°	2641.8	2694.6	2677.6	2667.1	2659.2	2690.4	2829.5	2754.3	2736.0	2696.6
50°	2355.1	2455.1	2485.0	2551.3	2627.4	2732.7	2925.6	2914.8	2938.7	2899.0
52.5°	1859.3	1997.1	2170.3	2336.4	2529.6	2718.6	3031.3	3145.1	3246.2	3224.5
55°	1534.8	1596.8	1730.0	2034.5	2340.0	2659.2	3078.8	3331.1	3551.3	3531.9
57.5°	1285.5	1340.9	1422.9	1677.2	2053.2	2524.4	3108.4	3444.7	3760.3	3758.3
60°	1018.1	1076.8	1160.8	1340.9	1718.2	2291.4	3101.8	3573.9	4027.0	4043.4
62.5°	716.2	780.9	874.0	1042.0	1376.0	1989.6	2967.9	3667.4	4341.0	4385.6
65°	470.8	513.5	583.7	728.7	1025.3	1601.4	2712.3	3679.6	4677.0	4752.4
67.5°	330.1	346.5	387.8	466.5	675.9	1228.1	2305.2	3553.9	4901.1	4986.0
70°	257.6	265.8	286.8	318.3	424.6	825.8	1766.5	3227.1	4853.2	4941.7
72.5°	222.4	230.3	238.2	242.1	284.8	509.9	1196.6	2698.2	4402.0	4462.1
75°	201.8	203.7	210.3	209.0	217.2	330.7	690.6	1965.9	3473.2	3452.5
77.5°	169.6	172.2	183.1	181.4	192.9	226.1	358.6	1268.7	2251.7	2111.3
80°	143.7	145.0	156.8	154.9	167.7	163.7	183.1	646.7	955.1	809.1
82.5°	49.9	61.7	119.8	123.4	128.0	99.1	105.6	263.8	291.7	223.4
85°	24.3	25.9	61.0	86.6	86.3	49.9	51.5	94.2	91.9	72.2
87.5°	3.9	4.9	7.2	33.8	26.9	13.1	17.7	18.4	19.0	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946608
 CATALOG NUMBER: GALN-SB2A-950-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
745.8	0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
772.3	2.5°	754.0	737.6	703.1	671.3	646.3	622.4	608.9	597.5	590.9	589.6
808.4	5°	774.3	740.5	677.8	625.0	590.6	565.0	551.5	543.0	538.7	536.1
857.0	7.5°	803.5	754.0	664.7	604.7	568.6	550.2	543.3	542.0	541.7	542.0
915.7	10°	843.9	775.9	663.4	599.8	569.6	559.4	559.1	559.4	560.7	561.0
979.7	12.5°	887.5	798.6	668.7	604.0	582.0	576.5	575.5	575.1	576.1	576.8
1044.3	15°	935.1	828.4	677.5	613.2	595.8	589.9	588.9	587.0	586.6	586.3
1112.2	17.5°	984.0	858.0	687.4	623.0	604.7	596.5	592.9	588.3	584.7	583.7
1182.4	20°	1033.5	887.2	694.2	628.0	605.3	593.8	586.6	578.8	572.5	568.9
1253.3	22.5°	1086.3	917.7	698.5	626.7	599.4	583.7	570.6	561.4	551.9	545.6
1324.8	25°	1137.8	944.3	698.2	619.8	587.9	567.9	551.2	539.4	526.3	519.7
1398.7	27.5°	1187.4	968.2	690.0	607.6	571.5	549.2	529.2	515.1	502.3	496.1
1473.1	30°	1238.6	988.2	677.2	589.9	552.2	527.6	505.6	493.5	482.0	476.1
1551.9	32.5°	1289.4	1006.6	659.1	567.9	529.9	506.2	484.6	473.4	466.5	466.5
1636.5	35°	1343.2	1019.4	635.2	542.3	506.2	483.6	466.5	460.0	459.3	455.4
1726.1	37.5°	1400.0	1027.6	606.0	516.1	483.0	461.6	456.4	448.5	441.9	433.4
1824.5	40°	1459.7	1035.8	570.9	488.9	458.3	446.5	444.2	433.7	415.0	394.0
1936.1	42.5°	1532.2	1041.4	534.5	461.6	432.4	428.5	431.8	413.7	383.9	368.1
2070.6	45°	1616.2	1050.6	501.0	434.7	405.9	405.9	419.6	396.0	371.4	361.6
2224.1	47.5°	1725.1	1071.9	469.8	405.2	381.2	387.8	392.7	374.7	360.9	348.8
2411.2	50°	1882.6	1123.1	437.7	375.3	362.5	375.7	368.8	358.3	342.2	332.4
2708.4	52.5°	2078.1	1153.2	409.1	348.4	346.5	359.6	349.7	339.9	327.8	314.6
2933.8	55°	2211.3	1158.8	385.2	328.7	335.6	334.3	330.7	321.9	315.3	297.9
3156.3	57.5°	2360.3	1170.0	365.5	316.9	328.7	314.3	313.0	305.5	296.9	285.1
3427.6	60°	2538.5	1187.4	348.4	312.3	322.8	301.2	294.6	291.7	283.1	277.2
3754.0	62.5°	2732.7	1203.1	331.0	313.0	316.0	288.4	278.6	277.6	272.3	270.3
4060.5	65°	2865.2	1160.1	309.4	312.3	305.1	275.3	262.8	262.5	258.2	257.6
4193.4	67.5°	2819.0	1024.0	280.2	303.2	294.0	262.1	248.4	247.1	241.5	241.8
4054.6	70°	2587.3	829.7	239.8	280.5	280.2	250.3	233.3	229.0	221.5	222.8
3525.4	72.5°	2152.9	614.8	185.7	242.8	258.2	239.5	215.9	209.0	199.5	200.8
2602.4	75°	1554.8	418.0	135.2	184.7	224.7	226.7	198.8	187.0	175.5	177.5
1448.5	77.5°	795.6	236.9	99.4	127.3	176.5	206.0	183.4	167.7	165.0	183.4
417.7	80°	259.5	118.8	68.9	89.2	115.8	168.6	160.8	142.7	142.1	146.3
87.6	82.5°	77.4	50.2	44.3	58.7	64.0	129.3	138.8	107.9	92.9	97.8
29.2	85°	26.6	24.3	25.3	29.2	30.5	75.8	97.1	71.5	67.6	74.5
6.6	87.5°	6.2	8.5	7.2	6.6	6.6	18.4	37.7	29.9	41.3	27.6
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>
745.8
589.6
535.8
543.0
561.4
577.1
586.0
584.7
570.2
545.9
519.7
495.7
475.7
466.9
454.4
432.1
391.1
368.4
363.2
348.4
331.4
312.0
298.2
281.2
278.9
270.3
257.2
241.8
224.1
200.5
178.2
180.8
125.7
101.1
73.5
26.6
0.0

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