

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: P946971

Luminaire Tested: **GALN-SB2B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7819 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

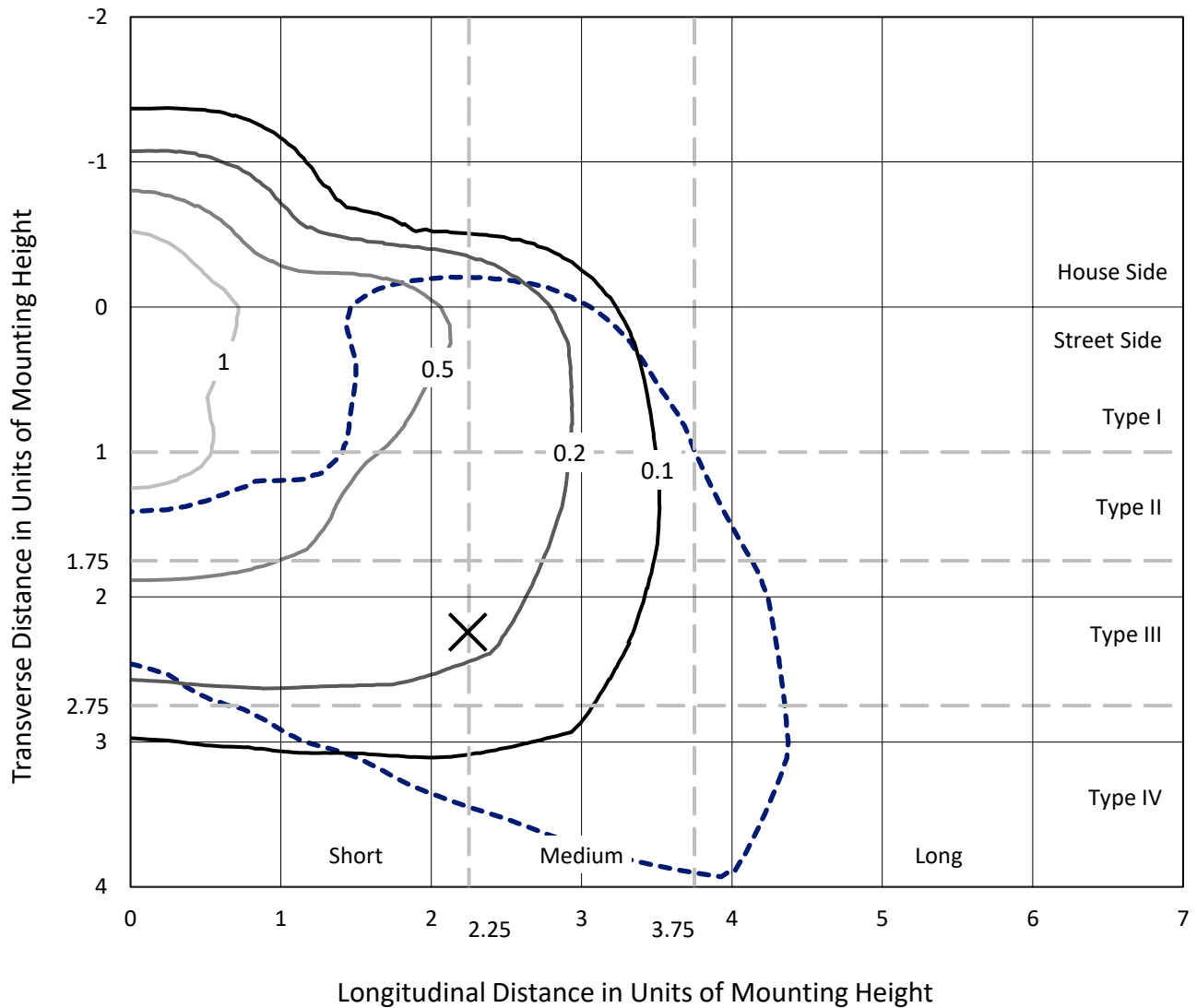
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

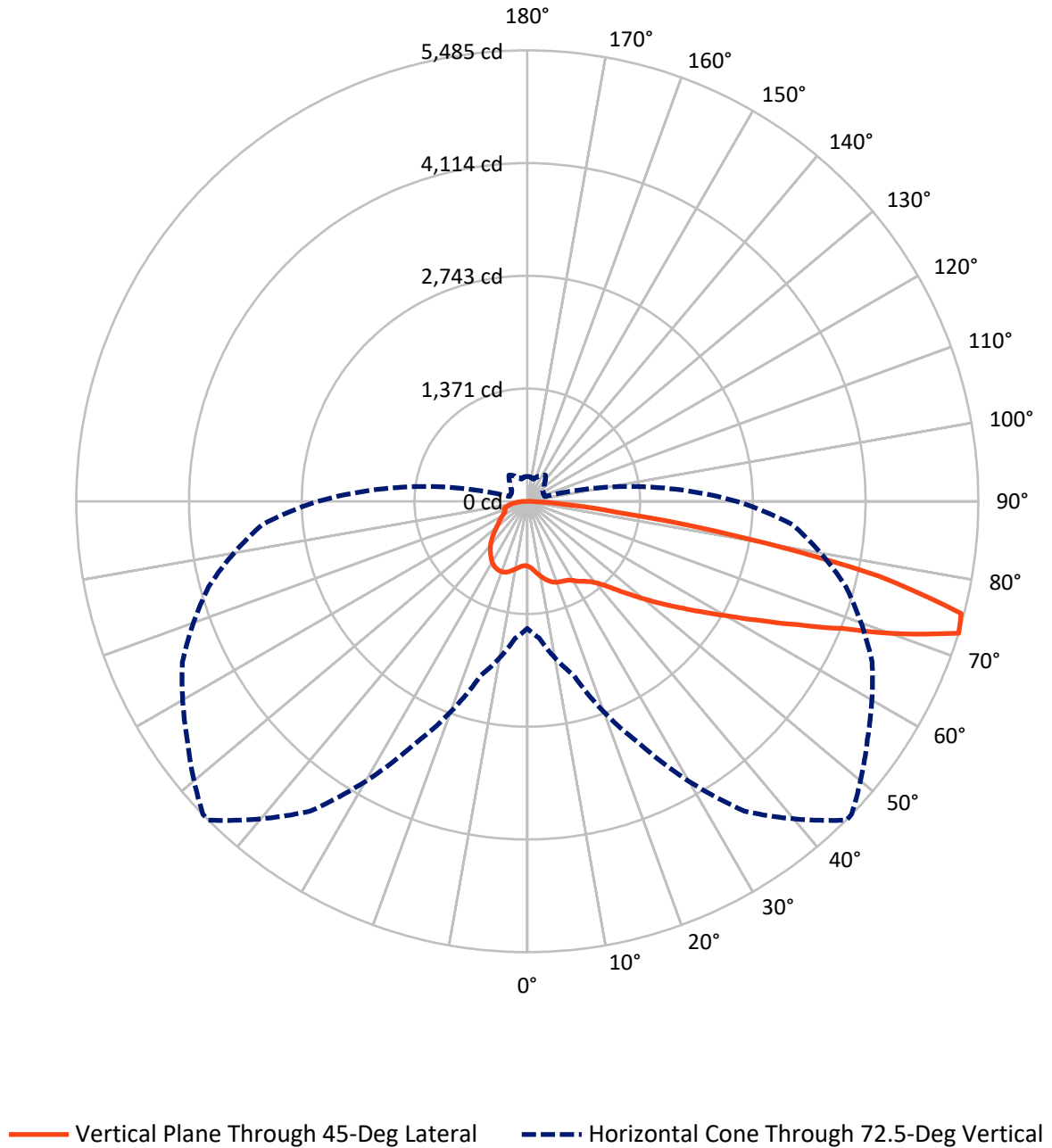
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.6	0.0	1767.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6051.4	0.0	6051.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	7819.0	0.0	7819.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.0
10°-20°	267.7	3.4
20°-30°	465.6	6.0
30°-40°	667.5	8.5
40°-50°	939.9	12.0
50°-60°	1439.6	18.4
60°-70°	2085.5	26.7
70°-80°	1665.4	21.3
80°-90°	207.4	2.7
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°	7819.0	100.0
0°-180°	7819.0	100.0



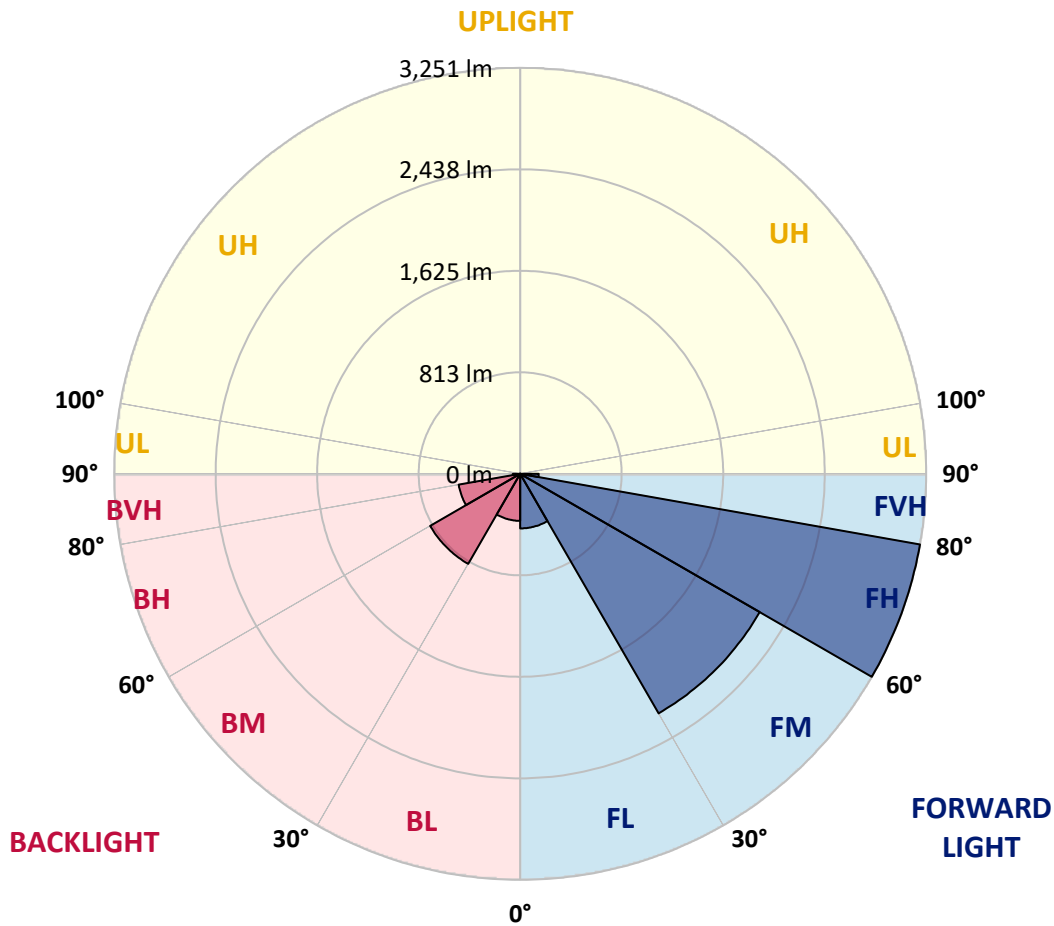
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.2	5.6			
FM (30°-60°)	2214.7	28.3			
FH (60°-80°)	3250.6	41.6			G2/5000
FVH (80°-90°)	148.8	1.9			G2/225
BL (0°-30°)	376.3	4.8	B1/500		
BM (30°-60°)	832.3	10.6	B1/1000		
BH (60°-80°)	500.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	58.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	819.7	825.0	820.1	815.6	813.5	808.1	807.7	804.4	802.4	796.6
5°	876.9	883.9	875.7	866.6	858.4	845.2	843.6	834.1	823.4	811.0
7.5°	941.6	947.8	938.3	924.7	910.3	888.5	888.1	870.8	853.9	832.9
10°	998.0	1006.3	993.5	975.0	956.8	932.1	929.2	909.5	888.1	860.9
12.5°	1047.9	1053.6	1041.3	1018.6	997.6	972.9	969.2	947.4	923.5	892.6
15°	1087.4	1094.8	1078.3	1054.0	1031.8	1007.5	1004.2	984.4	960.5	928.0
17.5°	1113.4	1119.5	1102.7	1075.5	1054.0	1033.9	1031.4	1014.9	993.9	961.0
20°	1123.2	1129.8	1112.1	1084.5	1064.8	1049.1	1047.9	1035.9	1021.5	991.4
22.5°	1133.1	1139.3	1116.2	1087.4	1070.1	1060.2	1059.8	1052.0	1046.2	1021.5
25°	1173.1	1174.7	1143.8	1102.2	1077.5	1068.9	1068.5	1068.1	1070.5	1051.2
27.5°	1207.7	1207.3	1180.9	1141.8	1103.5	1085.4	1084.9	1089.1	1096.9	1080.8
30°	1258.3	1253.8	1222.5	1181.7	1146.7	1118.7	1116.2	1112.5	1118.7	1105.9
32.5°	1365.9	1351.4	1300.8	1228.3	1182.6	1161.1	1157.8	1134.8	1137.3	1129.4
35°	1519.9	1501.0	1433.4	1316.4	1227.0	1196.6	1194.9	1165.7	1160.7	1153.7
37.5°	1703.2	1679.7	1601.0	1444.1	1303.7	1237.8	1235.3	1208.9	1188.7	1181.3
40°	1887.3	1857.7	1792.6	1599.8	1416.5	1306.5	1298.7	1258.8	1235.7	1223.3
42.5°	2066.1	2041.4	1985.8	1774.5	1555.7	1407.0	1389.7	1321.4	1304.1	1292.5
45°	2224.2	2202.0	2161.2	1961.0	1718.9	1543.8	1526.9	1415.3	1409.9	1409.9
47.5°	2352.8	2347.8	2304.6	2151.3	1911.2	1699.5	1670.2	1545.9	1560.3	1582.5
50°	2495.3	2481.7	2435.6	2338.8	2137.3	1877.8	1854.0	1706.1	1760.0	1821.0
52.5°	2626.3	2633.7	2582.2	2534.0	2392.7	2076.8	2034.8	1895.1	2011.7	2112.6
55°	2761.0	2761.4	2746.9	2740.4	2660.5	2296.7	2250.6	2122.5	2307.9	2433.1
57.5°	2887.4	2888.2	2909.6	2967.7	2971.0	2550.5	2498.2	2401.8	2637.0	2764.7
60°	3000.3	3006.0	3064.5	3200.4	3244.1	2841.3	2791.8	2731.7	2977.2	3105.7
62.5°	3038.2	3059.2	3189.3	3382.5	3513.9	3198.0	3149.4	3113.5	3334.7	3454.2
65°	2973.9	3022.1	3273.8	3532.9	3791.5	3621.8	3573.6	3534.5	3706.3	3818.7
67.5°	2816.1	2878.3	3268.8	3690.6	4128.5	4131.8	4086.9	3995.0	4104.6	4147.8
70°	2400.5	2493.6	2980.9	3749.5	4515.2	4829.1	4785.8	4549.4	4502.0	4292.8
72.5°	1546.7	1671.9	2195.0	3264.7	4601.3	5485.2	5482.8	5049.9	4627.7	4011.1
75°	564.3	640.9	1019.9	2049.2	3862.4	5451.9	5467.9	4964.2	4224.4	3098.3
77.5°	205.5	224.9	332.8	787.5	2375.4	4374.4	4407.7	3968.6	3006.9	1554.9
80°	107.9	118.6	170.5	305.6	1017.8	2597.8	2650.2	2358.5	1413.2	468.3
82.5°	59.7	64.7	95.6	166.0	458.4	1110.9	1142.2	931.7	497.2	198.5
85°	32.1	34.2	44.9	90.6	224.1	385.1	393.8	278.4	198.1	116.6
87.5°	9.5	11.5	14.8	28.8	87.7	86.5	88.6	55.2	78.3	58.9
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°
788.8	0°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
795.0	2.5°	792.5	791.3	786.7	784.7	782.2	781.8	783.8	784.3	784.7	785.1
804.0	5°	799.9	795.8	791.7	789.2	790.0	790.4	794.6	797.4	799.5	801.1
820.9	7.5°	814.3	811.0	804.0	803.6	804.8	808.6	813.9	820.5	824.2	827.1
842.7	10°	835.7	829.6	821.3	822.6	825.0	830.4	841.5	846.9	853.0	858.4
869.5	12.5°	857.6	852.2	842.7	843.6	847.7	857.2	867.9	874.5	878.6	882.7
898.3	15°	886.0	876.5	866.2	866.2	873.6	883.9	888.9	894.2	896.7	901.2
929.2	17.5°	915.2	902.9	889.3	888.5	897.5	902.5	905.4	906.2	907.0	911.9
959.3	20°	944.5	930.9	911.5	909.9	911.9	911.1	910.7	909.9	911.1	917.3
990.2	22.5°	973.3	957.7	930.9	923.5	917.7	909.9	909.5	909.1	909.9	916.1
1023.6	25°	1007.1	988.1	952.3	930.1	910.7	900.0	901.2	901.6	902.5	907.4
1058.2	27.5°	1043.7	1022.7	972.1	928.0	893.0	885.6	883.5	884.8	887.6	895.5
1092.8	30°	1080.4	1055.7	990.2	919.8	870.8	860.5	853.9	856.7	865.8	873.6
1122.8	32.5°	1113.8	1089.1	1004.6	901.6	842.3	826.3	817.6	821.3	830.4	833.3
1156.2	35°	1152.9	1124.9	1010.8	872.8	811.4	786.7	775.2	769.8	774.4	771.5
1195.3	37.5°	1196.6	1167.3	1010.0	834.9	775.2	746.8	730.7	710.5	701.1	691.2
1253.0	40°	1261.2	1219.2	1000.1	789.2	730.3	704.3	675.5	641.3	619.9	600.5
1346.1	42.5°	1349.4	1291.3	982.0	738.9	679.6	655.3	616.2	576.2	542.5	510.3
1487.4	45°	1480.8	1385.6	959.3	685.4	624.8	601.0	558.5	513.6	475.3	434.1
1688.0	47.5°	1670.2	1512.5	937.9	624.4	567.2	545.4	507.0	465.4	420.1	380.2
1977.9	50°	1930.6	1694.5	918.1	565.1	510.3	493.9	463.4	421.0	375.2	343.1
2317.8	52.5°	2261.7	1942.1	909.9	507.9	457.2	451.0	426.7	387.2	343.9	316.7
2714.0	55°	2641.9	2238.3	909.9	453.1	410.7	412.7	395.8	359.2	321.7	297.4
3122.6	57.5°	3029.9	2538.1	893.4	402.4	371.1	379.8	369.1	336.9	303.2	278.0
3552.2	60°	3387.5	2789.4	826.7	356.3	336.1	349.7	342.7	315.1	273.9	252.9
3911.4	62.5°	3662.2	2931.1	698.2	319.6	307.3	322.9	319.2	286.3	268.6	259.9
4206.3	65°	3799.8	2908.0	533.8	287.1	283.0	307.3	299.4	298.2	284.2	274.3
4302.3	67.5°	3715.3	2709.5	387.2	263.2	269.0	292.9	322.9	327.9	301.9	282.6
4032.1	70°	3345.0	2350.3	288.3	240.5	251.3	293.3	368.2	343.1	296.2	273.5
3233.8	72.5°	2544.7	1752.6	223.7	216.7	228.2	295.3	388.4	336.1	279.7	302.3
2014.6	75°	1455.2	962.2	179.6	187.4	199.4	276.0	378.1	318.0	266.9	277.6
798.3	77.5°	554.8	369.9	148.3	158.6	160.2	241.0	361.6	316.7	254.1	248.0
239.3	80°	192.4	144.6	122.7	126.0	124.0	214.2	346.8	275.6	208.0	186.2
98.9	82.5°	78.7	72.1	97.2	93.1	88.1	166.4	280.1	225.3	170.1	150.3
47.8	85°	34.2	45.7	64.3	56.4	51.1	115.3	224.5	190.7	143.8	124.0
15.7	87.5°	7.0	17.3	27.2	25.5	26.4	77.0	159.4	135.5	101.7	76.2
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

180°
788.8
786.7
802.0
827.9
857.2
884.3
902.9
913.6
919.8
920.2
914.0
903.3
882.3
843.6
780.5
697.3
601.8
507.5
429.2
375.7
341.1
314.7
294.9
273.9
249.6
257.0
271.0
279.3
269.8
299.9
277.6
226.1
180.0
148.7
123.6
59.7
0.0

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