

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: P939725

Luminaire Tested: **GALN-SB2B-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939725
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-SB2B-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7762 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

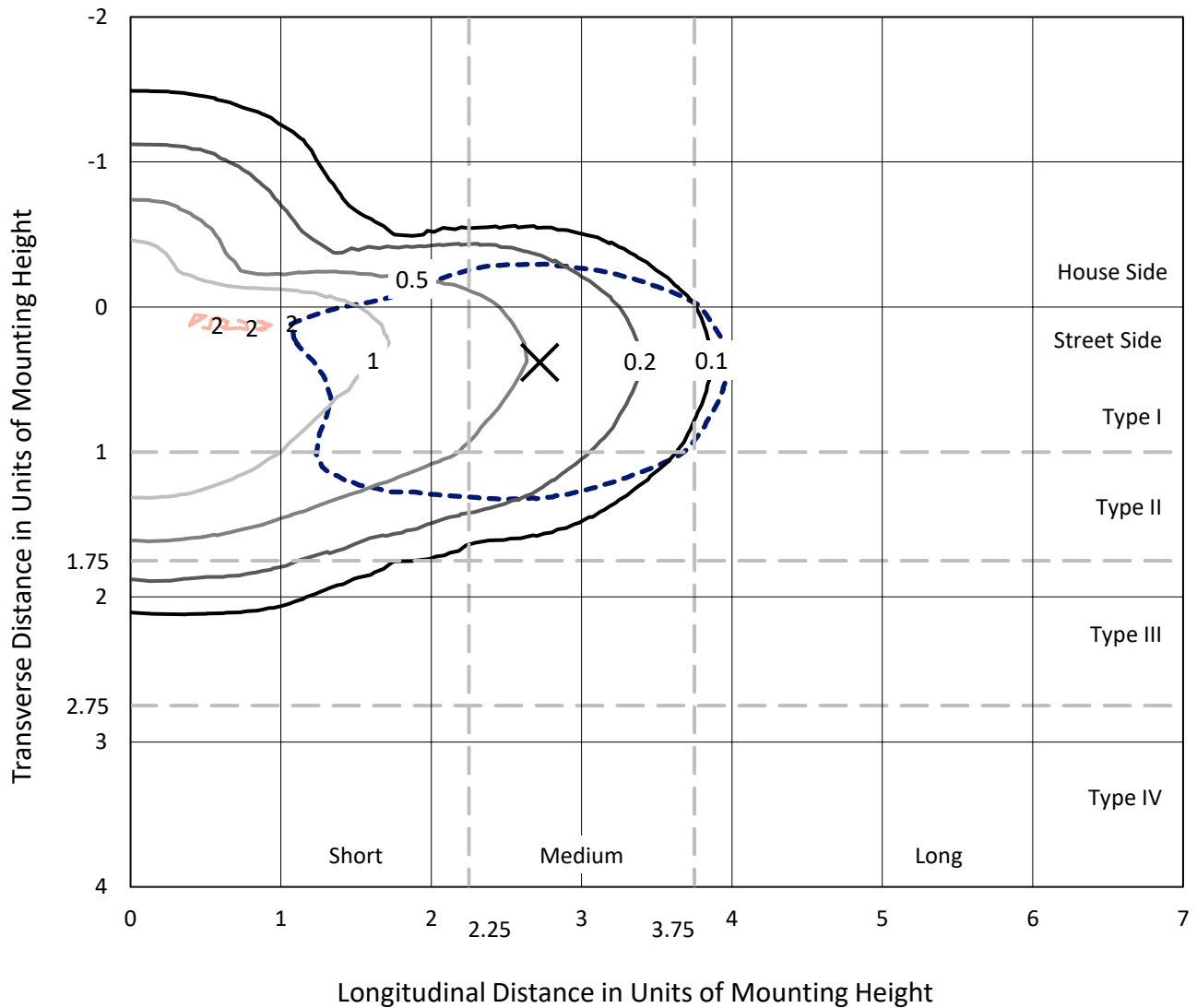
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

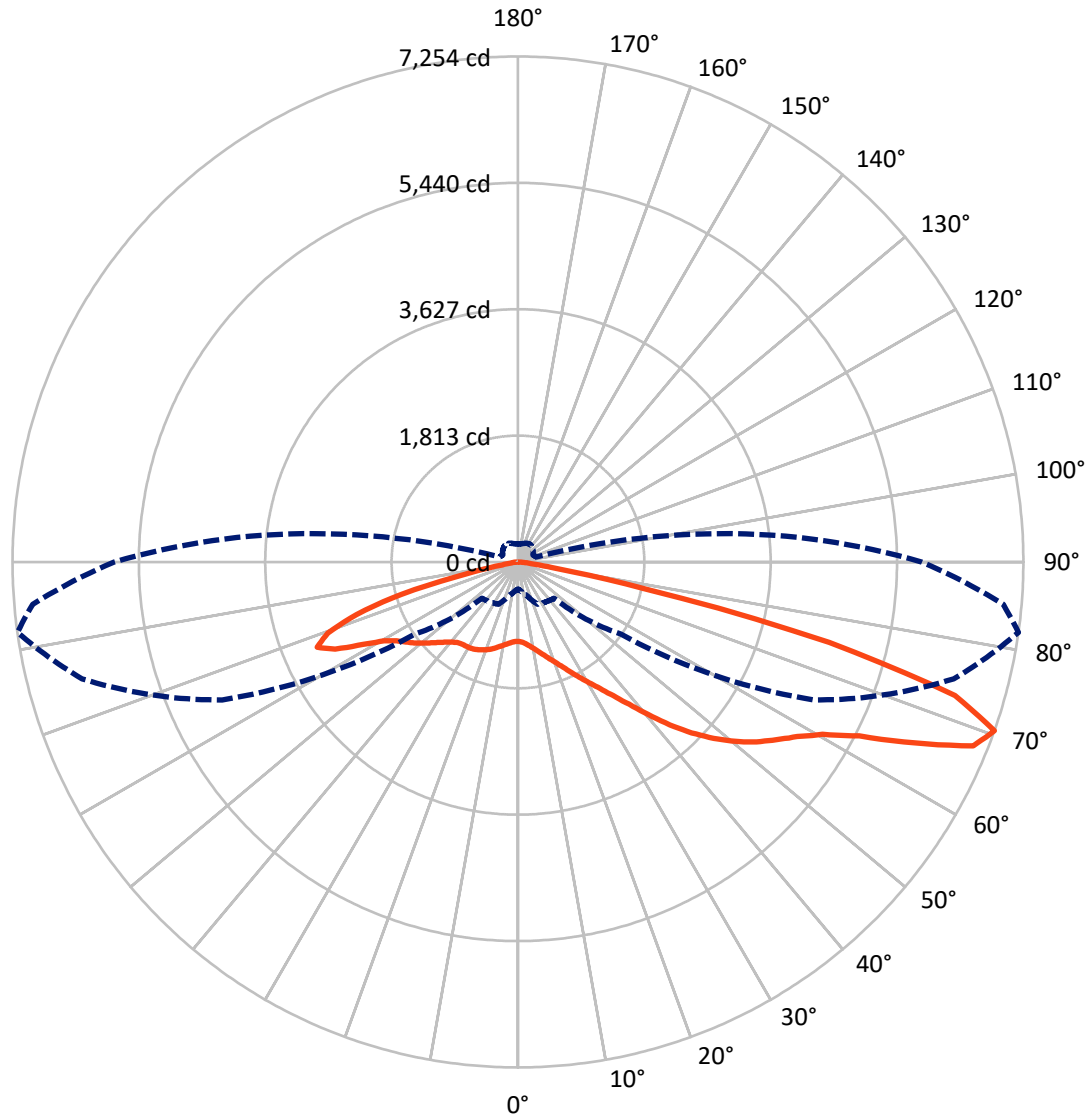
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1913.5	0.0	1913.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5848.5	0.0	5848.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	7762.0	0.0	7762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.4
10°-20°	308.7	4.0
20°-30°	516.4	6.7
30°-40°	806.8	10.4
40°-50°	1284.9	16.6
50°-60°	1788.1	23.0
60°-70°	1870.5	24.1
70°-80°	977.6	12.6
80°-90°	101.5	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°	7762.0	100.0
0°-180°	7762.0	100.0

Coefficient of Utilization



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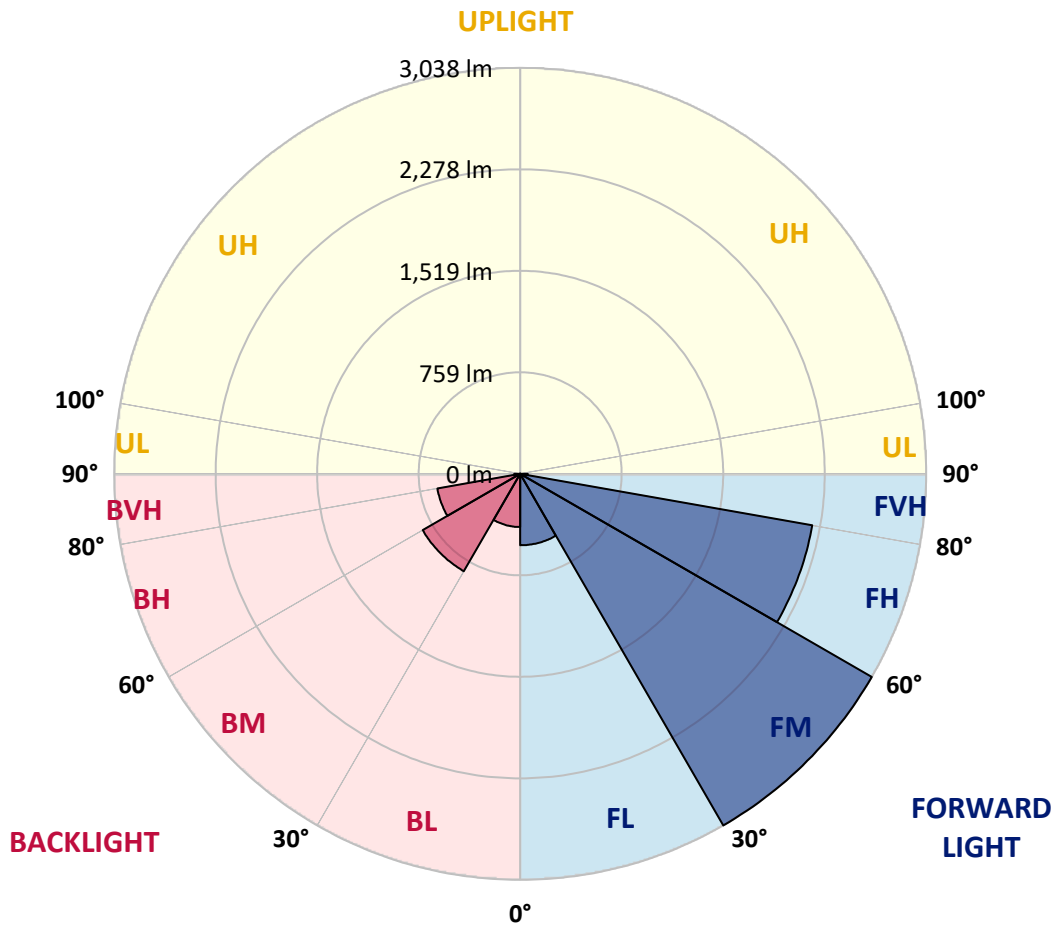
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.5	6.9			
FM (30°-60°)	3038.0	39.1			
FH (60°-80°)	2219.2	28.6			G2/5000
FVH (80°-90°)	56.8	0.7			G1/100
BL (0°-30°)	398.1	5.1	B1/500		
BM (30°-60°)	841.9	10.8	B1/1000		
BH (60°-80°)	628.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1165.2	1171.8	1169.7	1167.7	1167.7	1164.8	1164.4	1160.2	1157.0	1151.6
5°	1180.0	1187.0	1186.2	1187.8	1193.2	1194.4	1195.7	1193.2	1186.6	1180.0
7.5°	1166.8	1174.7	1177.1	1187.0	1203.5	1218.3	1229.4	1234.0	1227.8	1218.3
10°	1122.4	1131.0	1139.7	1163.1	1192.4	1227.4	1257.0	1274.7	1273.5	1264.5
12.5°	1032.2	1041.2	1059.8	1105.5	1159.0	1220.8	1276.0	1313.1	1325.8	1319.2
15°	960.1	967.9	981.9	1028.9	1098.5	1192.4	1283.0	1355.1	1387.6	1383.9
17.5°	958.0	961.3	970.0	992.2	1045.7	1147.9	1275.6	1396.3	1458.4	1458.0
20°	994.3	995.5	1000.4	1005.0	1035.4	1114.1	1256.6	1430.4	1537.9	1537.9
22.5°	1044.5	1043.7	1048.6	1044.5	1059.3	1111.2	1244.7	1460.5	1626.5	1633.1
25°	1119.9	1115.8	1114.5	1105.1	1107.9	1138.0	1257.9	1494.7	1731.5	1745.1
27.5°	1220.4	1213.8	1209.3	1187.4	1180.0	1193.2	1298.2	1535.9	1848.5	1872.0
30°	1351.4	1339.4	1332.8	1294.9	1268.2	1270.2	1359.2	1590.7	1970.8	2008.7
32.5°	1530.1	1511.6	1493.9	1431.7	1382.7	1366.6	1437.9	1666.4	2103.4	2164.0
35°	1730.3	1715.5	1696.5	1600.5	1525.2	1488.1	1544.1	1772.3	2258.7	2354.7
37.5°	1923.0	1910.3	1919.3	1790.0	1692.8	1638.8	1683.3	1914.4	2450.2	2591.9
40°	2122.4	2112.5	2113.7	1990.2	1876.9	1816.4	1852.2	2092.7	2669.8	2874.1
42.5°	2339.0	2331.6	2306.9	2197.3	2070.1	2013.6	2046.6	2298.7	2905.4	3195.3
45°	2581.6	2577.1	2554.0	2428.4	2282.6	2219.2	2263.7	2526.0	3142.2	3497.6
47.5°	2791.3	2795.0	2792.1	2686.2	2535.1	2442.0	2495.1	2763.3	3362.5	3781.8
50°	2892.2	2911.5	2940.0	2907.0	2813.1	2718.4	2728.7	2992.3	3572.6	4048.3
52.5°	2839.5	2876.1	2953.5	3006.3	3042.5	3022.7	2995.1	3219.6	3770.3	4288.8
55°	2643.0	2694.5	2823.0	2950.2	3135.2	3278.9	3315.2	3471.7	3963.0	4500.5
57.5°	2285.1	2368.7	2484.0	2741.4	3052.8	3402.9	3688.3	3821.4	4167.3	4726.7
60°	1671.4	1783.4	1926.7	2309.8	2764.5	3336.6	4005.9	4358.4	4457.7	5019.5
62.5°	1069.6	1138.8	1270.6	1631.4	2154.1	2996.8	4103.1	5029.8	4949.9	5499.7
65°	732.3	776.8	897.5	1100.1	1392.5	2230.7	3842.8	5533.1	5731.6	6260.9
67.5°	532.1	565.9	668.9	846.4	907.4	1320.1	2982.0	5510.0	6491.5	7045.1
70°	388.0	411.9	498.4	668.9	698.1	734.4	1806.5	4683.8	6475.1	7253.5
72.5°	287.5	304.0	362.0	519.0	565.1	495.9	894.2	3404.1	5564.0	6560.7
75°	208.0	220.4	263.2	397.0	452.2	377.7	446.1	1989.3	3881.1	4615.0
77.5°	159.0	168.5	196.5	290.8	362.0	283.4	276.8	915.2	1840.3	1849.3
80°	127.7	133.9	149.1	204.7	277.6	212.1	180.4	369.5	581.6	492.2
82.5°	93.9	104.2	126.0	143.7	198.5	146.2	110.0	186.6	221.2	190.3
85°	53.5	60.5	76.2	103.0	126.9	89.4	63.0	82.8	103.0	84.4
87.5°	18.9	24.7	26.8	40.4	55.2	37.1	24.3	23.9	33.8	25.1
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°
1138.0	0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
1150.4	2.5°	1146.2	1144.2	1135.9	1124.8	1113.3	1102.2	1098.5	1090.6	1085.3	1082.4
1177.1	5°	1169.3	1162.7	1143.4	1118.6	1092.7	1064.7	1044.9	1026.8	1013.6	1001.3
1213.8	7.5°	1202.3	1190.7	1157.4	1114.1	1068.0	1021.4	986.8	960.5	942.8	931.2
1256.6	10°	1240.6	1222.9	1171.8	1107.1	1035.9	969.1	928.4	905.7	894.6	888.4
1305.6	12.5°	1284.6	1259.5	1186.6	1091.1	986.8	910.7	882.6	876.1	876.5	876.9
1367.4	15°	1339.0	1304.0	1198.6	1056.0	923.0	865.8	860.8	871.5	882.6	888.0
1437.4	17.5°	1400.4	1350.9	1200.6	998.4	860.4	836.9	852.6	875.6	892.5	899.9
1515.7	20°	1466.3	1398.7	1185.8	916.8	808.9	813.5	841.5	871.1	889.6	899.1
1605.1	22.5°	1541.6	1449.8	1150.4	831.2	766.9	787.9	820.9	849.7	869.1	878.5
1710.1	25°	1627.7	1507.0	1094.8	759.1	730.7	759.1	792.0	815.9	831.6	840.2
1827.5	27.5°	1723.3	1566.8	1020.6	701.8	698.9	729.4	756.6	775.1	783.4	790.0
1952.3	30°	1819.2	1621.1	930.8	658.6	671.4	700.2	719.5	727.8	730.3	731.5
2091.5	32.5°	1923.0	1668.1	836.5	622.8	645.0	671.8	683.3	687.0	675.5	667.6
2260.4	35°	2048.7	1718.3	744.3	594.3	619.0	642.1	645.8	642.5	628.9	612.9
2472.1	37.5°	2203.9	1780.9	670.5	574.2	594.7	610.0	605.5	604.6	605.9	586.9
2726.6	40°	2394.2	1862.5	616.6	558.5	575.0	578.3	565.5	572.5	578.7	549.9
3005.9	42.5°	2605.5	1960.9	582.4	547.8	558.5	550.7	530.9	538.7	537.9	500.0
3286.3	45°	2820.9	2068.0	570.4	540.0	543.3	527.6	505.8	507.8	490.5	456.4
3555.3	47.5°	3035.1	2182.9	577.9	533.4	524.3	506.6	489.7	480.7	455.1	429.6
3813.1	50°	3245.2	2303.6	605.0	520.2	498.4	488.1	475.7	459.7	432.5	410.6
4057.0	52.5°	3440.0	2425.1	635.5	498.4	465.8	472.0	464.2	445.6	418.9	396.6
4287.6	55°	3624.5	2546.6	647.5	468.3	435.4	458.0	453.5	419.3	387.2	369.0
4529.0	57.5°	3825.5	2692.8	634.3	430.0	410.6	441.9	424.6	386.7	368.2	354.6
4843.2	60°	4103.9	2922.2	605.9	382.6	387.2	418.1	388.4	372.7	352.6	337.3
5314.4	62.5°	4566.4	3350.2	560.1	335.7	359.6	382.6	371.1	355.4	334.9	320.0
6120.0	65°	5250.2	3944.9	474.1	299.0	328.7	348.0	352.6	336.9	315.5	299.8
6826.0	67.5°	5826.8	4318.1	358.7	268.5	297.0	320.0	332.8	317.6	294.9	279.7
6991.1	70°	5795.1	4047.1	273.9	238.5	269.0	292.4	308.9	297.0	272.7	258.2
6350.3	72.5°	5147.2	3385.6	221.6	208.0	240.5	263.6	283.4	274.3	249.6	235.6
4652.1	75°	3781.4	2403.3	177.1	177.1	205.1	233.5	255.4	249.6	226.9	217.1
1953.1	77.5°	1594.0	1008.3	138.8	147.0	170.5	200.6	227.8	229.8	210.1	222.4
516.5	80°	423.8	278.0	105.9	115.7	133.9	165.6	198.1	197.3	175.9	164.3
191.9	82.5°	161.5	109.6	75.4	81.6	96.8	126.9	156.9	161.9	140.4	121.5
75.4	85°	62.2	47.0	46.5	49.0	56.4	84.0	118.6	122.7	105.9	89.8
21.0	87.5°	16.1	14.0	17.3	16.5	25.9	44.9	68.0	70.4	64.7	37.5
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>
1138.0
1085.7
1006.2
933.7
890.1
877.7
887.6
901.6
901.6
881.0
842.7
792.4
734.4
670.1
613.7
588.2
550.7
499.6
457.6
429.6
409.0
397.0
367.4
353.4
336.5
320.0
300.7
280.1
259.5
235.6
214.2
201.8
152.8
121.5
92.7
53.5
0.0

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